CONTENTS

INTRODUCTION vii

MAJOR EARTHQUAKES
Shallow Focus (h≤60^k,M≥5.5) 1
Intermediate Focus (60^k<h≤300^k,M≥5.5) 19
Deep Focus (h>300^k,M≥5) 25

FELT AND DAMAGING EARTHQUAKES 28

PROBABLE EXPLOSIONS 76

REGIONAL CATALOGUE OF EVENTS 96

AGENCIES REPORTING EPICENTRAL ESTIMATES 535

MAPS OF SHALLOW AND DEEP EVENTS

INDEX OF SEISMIC AND GEOGRAPHICAL REGIONS

SEISMIC REGION 1. ALASKA-ALEUTIAN ARC.
(1) Central Alaska 96
(2) Southern Alaska 98
(3) Bering Sea
(4) Komandorsky Islands region 102
(5) Near Islands 103
(6) Rat Islands 103
(7) Andreanof Islands 104
(8) Pribilof Islands 106
(9) Fox Islands 106
(10) Unimak Island region 108
(11) Bristol Bay
(12) Alaska Peninsula 108
(13) Kodiak Island region 109
(14) Kenai Peninsula 110
(15) Gulf of Alaska 110
(16) Aleutian Islands region 111
(17) South of Alaska 111

SEISMIC REGION 2. EASTERN ALASKA TO VANCOUVER ISLAND.
(18) Southern Yukon Territory 111
(19) South-Eastern Alaska 111
(20) Off coast of South-Eastern Alaska 112
(21) West of Vancouver Island
(22) Queen Charlotte Islands region 112
(23) British Columbia
(24) Alberta 112
(25) Vancouver Island region 112
(26) Off coast of Washington
(27) Near coast of Washington
(28) Washington-Oregon border region 113
(29) Washington State 113

SEISMIC REGION 3. CALIFORNIA-NEVADA REGION.
(30) Off coast of Oregon 113
(31) Near coast of Oregon
(32) Oregon 113
(33) Western Idaho 113
(34) Off coast of Northern California 114
(35) Near coast of Northern California 114
(36) Northern California 115
(37) Nevada 115
(38) Off coast of California 115
(39) Central California 115
(40) California-Nevada border region 116
(41) Southern Nevada
(42) Western Arizona
(43) Southern California 121
(44) California-Arizona border region
(45) California-Mexico border region 122
(46) Western Arizona-Mexico border region 122

SEISMIC REGION 4. LOWER CALIFORNIA AND GULF OF CALIFORNIA.
(47) Off west coast of Lower California
(48) Lower California 123
(49) Gulf of California 123
(50) North-Western Mexico 123
(51) Off coast of Central Mexico 123
(52) Near coast of Central Mexico

SEISMIC REGION 5. MEXICO-GUATEMALA AREA.
(53) Revilla Gigedo Islands region 123
(54) Off coast of Jalisco, Mexico 123
(55) Near coast of Jalisco, Mexico 124
(56) Near coast of Michoacan, Mexico 124
(57) Michoacan, Mexico 124
(58) Near coast of Guerrero, Mexico 124
(59) Guerrero, Mexico 125
(60) Oaxaca, Mexico 126
(61) Chiapas, Mexico 126
(62) Mexico-Guatemala border region 126
(63) Off coast of Mexico 126
(64) Off coast of Michoacan, Mexico 126
(65) Off coast of Guerrero, Mexico 127
(66) Near coast of Oaxaca, Mexico 128
(67) Off coast of Oaxaca, Mexico 128
(68) Off coast of Chiapas, Mexico 128
(69) Near coast of Chiapas, Mexico 128
(70) Guatemala 129
(71) Near coast of Guatemala 129

SEISMIC REGION 6. CENTRAL AMERICA.
(72) Honduras 130
(73) El Salvador 130
(74) Near coast of Nicaragua 130
(75) Nicaragua 131
(76) Off coast of Central America 131
(77) Off coast of Costa Rica 131
(78) Costa Rica 131
(79) North of Panama
(80) Panama-Costa Rica border region 132
(81) Panama 132
(82) Panama-Colombia border region
(83) South of Panama 132

SEISMIC REGION 7. CARIBBEAN LOOP.
(84) Yucatán Peninsula
(85) Cuba region
(86) Jamaica region
(87) Haiti region 133
(88) Dominican Republic region 133
(89) Mona Passage 133
(90) Puerto Rico region 133
(91) Virgin Islands
(92) Leeward Islands 134
(93) Belize 136
(94) Caribbean Sea 136
(95) Windward Islands 136
(96) Near north coast of Colombia 137
(97) Near coast of Venezuela 137
(98) Trinidad 138
(99) Northern Colombia 139
(100) Lake Maracaibo
(101) Venezuela 139

SEISMIC REGION 8. ANDEAN SOUTH AMERICA.
(102) Near west coast of Colombia 139
(103) Colombia 140
(104) Off coast of Ecuador 140
(105) Near coast of Ecuador 140
(106) Colombia-Ecuador border region 141
(107) Ecuador 141
(108) Off coast of Northern Peru 141
(109) Near coast of Northern Peru 141
(110) Peru-Ecuador border region 142
(111) Northern Peru 142
(112) Peru-Brazil border region 142
(113) Western Brazil
(114) Off coast of Peru 142
(115) Near coast of Peru 142
(116) Peru 143
(117) Southern Peru 143
(118) Peru-Bolivia border region 143
(119) Northern Bolivia
(120) Bolivia 144
(121) Off coast of Northern Chile 144
(122) Near coast of Northern Chile 144
(123) Northern Chile 144
(124) Chile-Bolivia border region 145
(125) Southern Bolivia 146
(126) Paraguay
(127) Chile-Argentina border region 146
(128) Jujuy Province, Argentina 150
(129) Salta Province, Argentina 150
(130) Catamarca Province, Argentina 150
(131) Tucumán Province, Argentina
(132) Santiago del Estero Province, Argentina 151
(133) North-Eastern Argentina
(134) Off coast of Central Chile 151
(135) Near coast of Central Chile 152
(136) Central Chile 160
(137) San Juan Province, Argentina 160
(138) La Rioja Province, Argentina 161
(139) Mendoza Province, Argentina 161
(140) San Luis Province, Argentina
(141) Cordoba Province, Argentina 162
(142) Uruguay

SEISMIC REGION 9. EXTREME SOUTH AMERICA.
(143) Off coast of Southern Chile 162
(144) Near coast of Southern Chile 162
(145) Southern Chile-Argentina border region 162
(146) Argentina

SEISMIC REGION 10. SOUTHERN ANTILLES.
(147) Tierra del Fuego
(148) Falkland Islands region
(149) Drake Passage 162
(150) Scotia Sea 162
(151) South Georgia Island region
(152) South Georgia Rise
(153) South Sandwich Islands region 162
(154) South Shetland Islands
(155) Palmer Peninsula
(156) South-Western Atlantic Ocean 163
(157) Weddell Sea 164

SEISMIC REGION 11. NEW ZEALAND REGION.
(158) Off west coast of North Island, N.Z. 164
(159) North Island, New Zealand 164
(160) Off east coast of North Island, N.Z. 166
(161) Off west coast of South Island, N.Z. 167
(162) South Island, New Zealand 167
(163) Cook Strait, New Zealand 168
(164) Off east coast of South Island, N.Z. 169
(165) North of Macquarie Island 169
(166) Auckland Islands region 169
(167) Macquarie Island region 169
(168) South of New Zealand

SEISMIC REGION 12. KERMADEC-TONGA-SAMOA AREA.
(169) Samoa region 169
(170) Samoa 170
(171) South of Fiji 170
(172)
(173) Tonga 173
(174) Tonga region 177
(175) South of Tonga 179
(176) North of New Zealand 179

(177) Kermadec Islands region 179
(178) Kermadec Islands 181
(179) South of Kermadec Islands 182

SEISMIC REGION 13.
FIJI AREA.
(180) North of Fiji 183
(181) Fiji region 183
(182) Fiji 192

SEISMIC REGION 14.
VANUATU (NEW HEBRIDES).
(183) Santa Cruz Islands region 193
(184) Santa Cruz Islands 193
(185) Vanuatu (New Hebrides) region 194
(186) Vanuatu (New Hebrides) 194
(187) New Caledonia 198
(188) Loyalty Islands 198
(189) Loyalty Islands region 198

SEISMIC REGION 15.
BISMARCK AND SOLOMON ISLANDS.
(190) New Ireland region 199
(191) North of Solomon Islands 200
(192) New Britain region 200
(193) Solomon Islands 204
(194) D'Entrecasteaux Islands region 206
(195) Solomon Islands region 206

SEISMIC REGION 16.
NEW GUINEA.
(196) West Irian region 207
(197) Near north coast of West Irian 208
(198) New Guinea region 210
(199) Admiralty Islands region 210
(200) Near north coast of New Guinea 210
(201) West Irian 211
(202) New Guinea 213
(203) Bismarck Sea 213
(204) Aroe Islands region 214
(205) Near south coast of West Irian
(206) Near south coast of New Guinea 214
(207) Eastern New Guinea region 214
(208) Arafura Sea 216

SEISMIC REGION 17.
CAROLINE ISLANDS TO GUAM.
(209) Western Caroline Islands 216
(210) South of the Marianas 217

SEISMIC REGION 18.
GUAM TO JAPAN.
(211) South of Honshū 218
(212) Bonin Islands region 221
(213) Volcano Islands region 222
(214) West of the Marianas
(215) Marianas region 224
(216) Marianas 225

SEISMIC REGION 19.
JAPAN-KURILS-KAMCHATKA.
(217) Kamchatka 228
(218) Near east coast of Kamchatka 228
(219) Off east coast of Kamchatka 238
(220) North-west of Kuril Islands 251
(221) Kuril Islands 252
(222) Kuril Islands region 259
(223) Eastern Sea of Japan 260
(224) Hokkaido region 262
(225) Off coast of Hokkaido 271
(226) Near west coast of Honshū 272
(227) Honshū 273
(228) Near east coast of Honshū 279
(229) Off east coast of Honshū 291
(230) Near south coast of Honshū 295

SEISMIC REGION 20.
SOUTHWESTERN JAPAN AND RYUKYU ISLANDS.
(231) South Korea 299
(232) Southern Honshū 299
(233) Near south coast of Southern Honshū 300
(234) East China Sea 301
(235) Kyūshū 302
(236) Shikoku 307
(237) South-east of Shikoku 308
(238) Ryūkyū Islands 308
(239) Ryūkyū Islands region 315
(240) East of Ryūkyū Islands 315
(241) Philippine Sea 315

SEISMIC REGION 21.
TAIWAN.
(242) Near south-eastern coast of China 315
(243) Taiwan region 315
(244) Taiwan 321
(245) North-east of Taiwan 326
(246) South-western Ryūkyū Islands 327
(247) South-east of Taiwan 329

SEISMIC REGION 22.
PHILIPPINES.
(248) Philippine Islands region 329
(249) Luzon 331
(250) Mindoro 332
(251) Samar 333
(252) Palawan 333
(253) Sulu Sea 333
(254) Panay 333
(255) Cebu 333
(256) Leyte 333
(257) Negros 334
(258) Sangihe Islands
(259) Mindanao 334
(260) East of Philippine Islands 336

SEISMIC REGION 23.
BORNEO-SULAWESI.
(261) Kalimantan (Borneo) 336
(262) Celebes Sea 336
(263) Talaud Islands 336
(264) North of Djailolo Gilolo (Halmahera) 337
(265) Minahassa Peninsula (Celebes) 338
(266) Molucca Passage 339
(267) Djailolo Gilolo (Halmahera) 340
(268) Sulawesi (Celebes) 342
(269) Molucca Sea 343
(270) Ceram Sea 344
(271) Buru 344
(272) Seram 344

SEISMIC REGION 24.
SUNDA ARC.
(273) South-west of Sumatera 345
(274) Southern Sumatera 345
(275) Java Sea 347
(276) Sunda Strait 347
(277) Java 347
(278) Bali Sea 349
(279) Flores Sea 349
(280) Banda Sea 350
(281) Tanimbar Islands region 353
(282) South of Java 353
(283) Bali region 355
(284) South of Bali 355
(285) Sumbawa region 355
(286) Flores region 356
(287) Sumba region 357
(288) Savu Sea 357
(289) Timor 357
(290) Timor Sea 357
(291) South of Sumbawa 358
(292) South of Sumba 358
(293) South of Timor 358

SEISMIC REGION 25.
MYANMAR AND SOUTHEAST ASIA.
(294) Myanmar-India border region 358
(295) Myanmar-Bangladesh border region
(296) Myanmar 359
(297) Myanmar-China border region 360
(298) South Myanmar 360
(299) Indo-Pacific Peninsula 360
(300) Hai-nan Island
(301) South China Sea

SEISMIC REGION 26.
INDIA-XIZANG-SZECHWAN-YUNNAN.
(302) Eastern Kashmir 360
(303) Southern Kashmir region 360
(304) Kashmir-Xizang border region 360
(305) Xizang-India border region 360
(306) Xizang 360
(307) Sichuan Province 363
(308) Northern India 363
(309) Nepal-India border region 363
(310) Nepal 363
(311) Sikkim
(312) Bhutan
(313) India-China border region 364
(314) India 364
(315) India-Bangladesh border region 364
(316) Bangladesh 364
(317) Eastern India 364
(318) Yunnan Province 364
(319) Bay of Bengal

SEISMIC REGION 27.
SOUTHERN XINJIANG TO GANSU.
(320) Kirgiziya-Xinjiang border region 365
(321) Southern Xinjiang Province 365
(322) Gansu Province 366
(323) Northern China 366
(324) Kashmir-Xinjiang border region 366
(325) Qinghai Province 366

SEISMIC REGION 28.
ALMA-ATA TO LAKE BAIKAL.
(326) Central Russia 366
(327) Lake Baikal region 366
(328) East of Lake Baikal 366
(329) Eastern Kazakhstan 367
(330) Alma-Ata region 367
(331) Kazakhstan-Xinjiang border region 367
(332) Northern Xinjiang Province 367
(333) USSR-Mongolia border region 367
(334) Mongolia 367

SEISMIC REGION 29.
WESTERN ASIA.
(335) Ural Mountains region
(336) Western Kazakhstan
(337) Eastern Caucasus 367
(338) Caspian Sea 368
(339) Uzbekistan 368
(340) Turkmeniya 368
(341) Iran-USSR border region 368
(342) Turkmeniya-Afghanistan border region
(343) Turkey-Iran border region 368
(344) North-Western Iran-USSR border region 368
(345) North-Western Iran 368
(346) Iran-Iraq border region 368
(347) Western Iran 368
(348) Iran 368
(349) North-Western Afghanistan
(350) South-Western Afghanistan
(351) Eastern Arabian Peninsula 368
(352) Persian Gulf
(353) Southern Iran 369
(354) Western Pakistan 370
(355) Gulf of Oman
(356) Near coast of Pakistan 370

SEISMIC REGION 30.
MIDDLE EAST-CRIMEA-EASTERN BALKANS.
(357) South-Western Russia 370
(358) Romania 370
(359) Bulgaria 372
(360) Black Sea 372
(361) Crimea region 372
(362) Western Caucasus 372
(363) Greece-Bulgaria border region 372
(364) Greece 373
(365) Ægean Sea 380
(366) Turkey 384
(367) Turkey-USSR border region 396
(368) Southern Greece 396
(369) Dodecanese Islands 403
(370) Crete 405
(371) Eastern Mediterranean Sea 406
(372) Cyprus 407
(373) Dead Sea region 407
(374) Jordan-Syria region 408
(375) Iraq 408

SEISMIC REGION 31.
WESTERN MEDITERRANEAN AREA.
(376) Portugal 408
(377) Spain 409
(378) Pyrenees 412
(379) Near south coast of France 414
(380) Corsica 415
(381) Central Italy 415
(382) Adriatic Sea 439
(383) Northwestern Balkan region 439
(384) West of Gibraltar 442
(385) Straits of Gibraltar 442
(386) Balearic Islands 445
(387) Western Mediterranean Sea 445
(388) Sardinia
(389) Tyrrhenian Sea 445
(390) Southern Italy 445
(391) Albania 447
(392) Greece-Albania border region 449
(393) Madeira region 450
(394) Canary Islands region 450
(395) Morocco 450
(396) Algeria 450
(397) Tunisia
(398) Sicily 451
(399) Ionian Sea 453
(400) Mediterranean Sea 463
(401) Near coast of Libya

SEISMIC REGION 32.
ATLANTIC OCEAN.
(402) North Atlantic Ocean 463
(403) North Atlantic Ridge 464
(404) Azores region 466
(405) Azores 466
(406) Central Mid-Atlantic Ridge 468

(407) North of Ascension Island 469
(408) Ascension Island region 469
(409) South Atlantic Ocean 469
(410) South Atlantic Ridge 469
(411) Tristan da Cunha region 470
(412) Bouvet Island region 470
(413) South-west of Africa 470
(414) South-Eastern Atlantic Ocean

SEISMIC REGION 33. INDIAN OCEAN.
(415) Eastern Gulf of Aden 470
(416) Socotra region 470
(417) Arabian Sea 470
(418) Laccadive Islands region
(419) North-Eastern Somalia
(420) North Indian Ocean
(421) Carlsberg Ridge 471
(422) Maldive Islands region 471
(423) Laccadive Sea
(424) Sri Lanka (Ceylon)
(425) South Indian Ocean 471
(426) Chagos Archipelago region 472
(427) Mascarene Islands region 472
(428) Atlantic-Indian Ridge 472
(429) Mid-Indian Rise 473
(430) South of Africa 474
(431) Prince Edward Islands region 474
(432) Crozet Islands region
(433) Kerguelen Islands region 474
(434) Amsterdam-Naturaliste Ridge 474
(435) South-East Indian Ridge 474
(436) Kerguelen-Gaussberg Ridge 474
(437) South of Australia 474

SEISMIC REGION 34. EASTERN NORTH AMERICA.
(438) Saskatchewan Province
(439) Manitoba Province 475
(440) Hudson Bay 475
(441) Ontario 475
(442) Hudson Strait region 475
(443) Northern Québec Province 475
(444) Davis Strait 475
(445) Labrador
(446) East of Labrador 475
(447) Southern Québec Province 475
(448) Gaspé Peninsula 475
(449) Eastern Québec Province 476
(450) Anticosti Island, Canada
(451) New Brunswick 476
(452) Nova Scotia
(453) Prince Edward Island
(454) Gulf of St Lawrence
(455) Newfoundland
(456) Montana 476
(457) Eastern Idaho 476
(458) Hebgen Lake region 476
(459) Yellowstone National Park, Wyoming 476
(460) Wyoming 476
(461) North Dakota
(462) South Dakota
(463) Nebraska 476
(464) Minnesota 476
(465) Iowa
(466) Wisconsin
(467) Illinois
(468) Michigan
(469) Indiana
(470) Southern Ontario
(471) Ohio
(472) New York State 476
(473) Pennsylvania 476
(474) Northern New England
(475) Maine
(476) Southern New England
(477) Gulf of Maine
(478) Utah 476
(479) Colorado 476
(480) Kansas 476
(481) Iowa-Missouri border region
(482) Missouri-Kansas border region
(483) Missouri
(484) Missouri-Arkansas border region
(485) Eastern Missouri 476
(486) New Madrid, Missouri, region 476
(487) Cape Girardeau, Missouri, region
(488) Southern Illinois 477
(489) Southern Indiana
(490) Kentucky
(491) West Virginia 477
(492) Virginia 477
(493) Chesapeake Bay region
(494) New Jersey
(495) Eastern Arizona 477
(496) New Mexico 477
(497) Texas Panhandle region
(498) West Texas
(499) Oklahoma 477
(500) Central Texas 477
(501) Arkansas-Oklahoma border region
(502) Arkansas 477
(503) Louisiana-Texas border region
(504) Louisiana
(505) Mississippi
(506) Tennessee 477
(507) Alabama 477
(508) Western Florida 477
(509) Georgia 477
(510) Florida-Georgia border region
(511) South Carolina
(512) North Carolina 477
(513) Off east coast of United States
(514) Florida Peninsula
(515) Bahama Islands
(516) Eastern Arizona-Mexico border region
(517) Mexico-New Mexico border region
(518) Texas-Mexico border region
(519) Southern Texas
(520) Texas Gulf Coast
(521) Chihuahua, Mexico
(522) Northern Mexico
(523) Central Mexico 477
(524) Jalisco, Mexico 478
(525) Veracruz State, Mexico 478
(526) Gulf of Mexico 478
(527) Gulf of Campeche 478

SEISMIC REGION 35. EASTERN SOUTH AMERICA.
(528) Brazil
(529) Guyana
(530) Suriname
(531) French Guiana

SEISMIC REGION 36. NORTHWESTERN EUROPE.
(532) Eire
(533) United Kingdom 478
(534) North Sea 478
(535) Southern Norway 478
(536) Sweden 479
(537) Baltic Sea 483
(538) France 483
(539) Bay of Biscay 489
(540) The Netherlands 489
(541) Belgium 489
(542) Denmark 489
(543) Germany 489
(544) Switzerland 493
(545) Northern Italy 494
(546) Austria 500
(547) Czech and Slovak Republics 501
(548) Poland 501
(549) Hungary 505

SEISMIC REGION 37. AFRICA.
(550) North-West Africa
(551) Southern Algeria
(552) Libya
(553) Egypt 505
(554) Red Sea 506
(555) Western Arabian Peninsula 507
(556) Central Africa
(557) Sudan 507
(558) Ethiopia 507
(559) Western Gulf of Aden 507
(560) North-Western Somalia
(561) Off south coast of North-West Africa
(562) Cameroon
(563) Equatorial Guinea
(564) Central African Republic
(565) Gabon
(566) Congo
(567) Zaïre 507
(568) Uganda 508
(569) Lake Victoria region 508
(570) Kenya 508
(571) Southern Somalia
(572) Lake Tanganyika region 508
(573) Tanzania 508
(574) North-west of Madagascar 508
(575) Angola
(576) Zambia
(577) Malawi
(578) Namibia
(579) Botswana
(580) Zimbabwe
(581) Moçambique 508
(582) Moçambique Channel 508
(583) Madagascar 508
(584) South Africa 508
(585) Lesotho 509
(586) Swaziland
(587) Off coast of South Africa

SEISMIC REGION 38. AUSTRALIA.
(588) North-West of Australia 509
(589) West of Australia 509
(590) Western Australia 509
(591) Northern Territory, Australia 510
(592) South Australia 510
(593) Gulf of Carpentaria
(594) Queensland 510
(595) Coral Sea
(596) South of Solomon Islands 510
(597) New Caledonia region 510
(598) South-west of Australia
(599) Off south coast of Australia
(600) Near south coast of Australia 510
(601) New South Wales 511
(602) Victoria
(603) Near south-east coast of Australia
(604) Near east coast of Australia 511
(605) East of Australia 511
(606) Norfolk Island region
(607) North-west of New Zealand 511
(608) Bass Strait
(609) Tasmania region 511
(610) South-east of Australia 511

SEISMIC REGION 39. PACIFIC BASIN.
(611) North Pacific Ocean 511
(612) Hawaiian Islands region
(613) Hawaiian Islands 511
(614) Caroline Islands region 511
(615) Marshall Islands region
(616) Eniwetok Atoll region
(617) Bikini Atoll region
(618) Kiribati (Gilbert Islands) region
(619) Johnston Island region
(620) Line Islands region 511
(621) Palmyra Island region
(622) Christmas Island region
(623) Tuvalu (Ellice Islands) region
(624) Phoenix Islands region
(625) Tokelau Islands region
(626) Northern Cook Islands 511
(627) Cook Islands region 511
(628) Society Islands region 511
(629) Tubuai Islands region
(630) Marquesas Islands region
(631) Tuamotu Archipelago region
(632) South Pacific Ocean 511

SEISMIC REGION 40. ARCTIC ZONE.
(633) Lomonosov Ridge
(634) Arctic Ocean
(635) Near north coast of Greenland 511
(636) Eastern Greenland 511
(637) Iceland region 511
(638) Iceland
(639) Jan Mayen Island region 512
(640) Greenland Sea 512
(641) North of Svalbard 512
(642) Norwegian Sea 513
(643) Svalbard region 513
(644) North of Franz Joseph Land
(645) Franz Joseph Land 513
(646) Northern Norway 513
(647) Barents Sea 513
(648) Novaya Zemlya 513
(649) Kara Sea
(650) Near coast of Western Siberia
(651) North of Severnaya Zemlya 513
(652) Severnaya Zemlya
(653) Near coast of Central Siberia
(654) East of Severnaya Zemlya 513
(655) Laptev Sea

SEISMIC REGION 41. EASTERN ASIA.
(656) Eastern Russia 514
(657) E. Russia-N.E. China border region 514
(658) North-Eastern China 514
(659) North Korea 514
(660) Sea of Japan 514
(661) Near east coast of Eastern Russia 515
(662) Sakhalin 515
(663) Sea of Okhotsk 516
(664) Eastern China 516
(665) Yellow Sea 516
(666) Off coast of Eastern China 516

SEISMIC REGION 42. NORTHEASTERN ASIA, NORTHERN ALASKA TO GREENLAND.
(667) North of New Siberian Islands

(668) New Siberian Islands
(669) East Siberian Sea
(670) Near north coast of Eastern Siberia 516
(671) Eastern Siberia 516
(672) Chukchi Sea
(673) Bering Strait 516
(674) St Lawrence Island region
(675) Beaufort Sea
(676) Alaska 516
(677) Northern Yukon Territory 517
(678) Queen Elizabeth Islands 517
(679) Northwest Territories 517
(680) Western Greenland 517
(681) Baffin Bay 517
(682) Baffin Island region 517

SEISMIC REGION 43.
SOUTHEASTERN AND ANTARCTIC PACIFIC.
(683) South-East Central Pacific Ocean 517
(684) Easter Island Cordillera 517
(685) Easter Island region 518
(686) West Chile Rise 518
(687) Juan Fernandez Islands region
(688) East of North Island, New Zealand 518
(689) Chatham Islands region
(690) South of Chatham Islands
(691) South Pacific Cordillera 518
(692) Southern Pacific Ocean 519

SEISMIC REGION 44.
GALAPAGOS AREA.
(693) East Central Pacific Ocean 520
(694) Northern Easter I. Cordillera 520
(695) West of Galapagos Islands 520
(696) Galapagos Islands region 520
(697) Galapagos Islands 520
(698) South-west of Galapagos Islands
(699) South-east of Galapagos Islands 520

SEISMIC REGION 45.
MACQUARIE LOOP.
(700) South of Tasmania
(701) West of Macquarie Island 520
(702) Balleny Islands region 521

SEISMIC REGION 46.
ANDAMAN ISLANDS TO SUMATERA.
(703) Andaman Islands region 521
(704) Nicobar Islands region 521
(705) Off west coast of Northern Sumatera 522
(706) Northern Sumatera 522
(707) Malay Peninsula 525
(708) Gulf of Siam

SEISMIC REGION 47.
BALUCHISTAN.
(709) Afghanistan 526
(710) Pakistan 526
(711) South-Western Kashmir
(712) India-Pakistan border region

SEISMIC REGION 48.
HINDU KUSH AND PAMIR.
(713) Central Kazakhstan
(714) South-Eastern Uzbekistan 527
(715) Tadzhikistan 527
(716) Kirgiziya 527
(717) Afghanistan-USSR border region 527
(718) Hindu Kush region 528
(719) Tadzhikistan-Xinjiang border region 529
(720) North-Western Kashmir 530

SEISMIC REGION 49.
NORTHERN EURASIA.
(721) Finland 530
(722) Norway-USSR border region 531
(723) Finland-USSR border region 531
(724) Western Russia 531
(725) Western Siberia
(726) Central Siberia 534

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

MAJOR EARTHQUAKES

MAJOR SHALLOW FOCUS EARTHQUAKES (h≤60k,M≥5.5)

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(156) South-Western Atlantic Ocean						
ISC	**VII 04 09 54 03.5±.24**	**58.15S±.049**	**11.22W±.090**	**10**	**5.5b,5.2s**	**177**	**13-161**
BJI	VII 04 09 54 00.6	58.18S	10.93W	6	5.4s		**¶97vii0534**
NEIC	VII 04 09 54 02.7	58.06S	11.18W	10	5.5b,5.2s		
EIDC	VII 04 09 54 08.0	58.1S	11.4W	36	5.0b,5.1s		
HRVD	VII 04 09 54 09.2±.2	58.39S±.02	10.95W±.04	15			
NEIC	Mw5.5(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c85; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}0.43±.03; $M_{\theta\theta}$−0.91±.04; $M_{\phi\phi}$0.48±.04; $M_{r\theta}$0.00±.00; $M_{r\phi}$0.00±.00; $M_{\theta\phi}$1.55±.04. Principal Axes: T 1.48,Plg0°,Azm123°; N 0.43, Plg90°,Azm180°; P −1.91,Plg0°,Azm33°. Best double couple: $M_0$1.7×10^{17}Nm, NP1:ϕ_S168°, δ90°,λ−180°. NP2:ϕ_S258°,δ90°,λ0°.						
	(7) Andreanof Islands						
ISC	**VII 04 11 04 03.4±.99**	**51.41N±.044**	**178.58W±.037**	**43±8.6**	**5.2b,4.4s**	**308**	**1-155**
BJI	VII 04 11 03 59.9	51.33N	178.29W	34	5.4b,4.7s		**¶97vii0545**
MOS	VII 04 11 04 02.1	51.4N	178.6W	33	5.5b,4.5s		
NEIC	VII 04 11 04 02.1	51.42N	178.58W	33	5.3b,4.4s		
HRVD	VII 04 11 04 05.7±.8	51.42N	178.58W	72±6.5			
EIDC	VII 04 11 04 06.1	51.5N	178.5W	59	4.7b,4.3s		
NEIC	Mw5.1(HRV).						
NEIC	Felt on Adak.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.95±.29; $M_{\theta\theta}$−3.42±.42; $M_{\phi\phi}$0.47±.42; $M_{r\theta}$2.59±.46; $M_{r\phi}$2.88±.66; $M_{\theta\phi}$−3.18±.51. Principal Axes: T 4.88,Plg59°,Azm278°; N 1.75, Plg21°,Azm49°; P −6.64,Plg21°,Azm148°. Best double couple: $M_0$5.8×10^{16}Nm, NP1: ϕ_S270°,δ30°,λ136°. NP2:ϕ_S41°,δ69°,λ67°.						
	(183) Santa Cruz Islands region						
ISC	**VII 05 22 46 41.0±.17**	**11.55S±.037**	**164.80E±.032**	**33**	**5.3b,4.9s**	**269**	**5-169**
EIDC	VII 05 22 46 36.9	11.5S	165.0E	0	5.0b,4.6s		**¶97vii0803**
BJI	VII 05 22 46 40.5	11.44S	164.86E	29	5.4b,5.0s		
NEIC	VII 05 22 46 41.0	11.55S	164.80E	33	5.5b,5.0s		
MOS	VII 05 22 46 41.4	11.4S	164.8E	33	5.8b,4.7s		
HRVD	VII 05 22 46 43.4±.2	11.57S±.03	164.69E±.02	28			
NEIC	Mw5.4(HRV), Mw5.3(GS).						
NEIC	Moment tensor solution: s19, scale 10^{16}Nm; M_{rr}−9.40; $M_{\theta\theta}$2.10; $M_{\phi\phi}$7.30; $M_{r\theta}$0.60; $M_{r\phi}$3.60; $M_{\theta\phi}$−4.80. Depth 13km; Principal axes: T 10.5,Plg8°,Azm241°; N −0.2,Plg13°,Azm333°; P −10.4,Plg74°,Azm121°. Best double couple: $M_0$1.0×10^{17}Nm; NP1:ϕ_S316°,δ39°,λ−112°. NP2: ϕ_S163°,δ54°,λ−74°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c79; Mantle waves: s2,c2; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.33±.03; $M_{\theta\theta}$−0.18±.04; $M_{\phi\phi}$1.51±.05; $M_{r\theta}$−0.33±.07; $M_{r\phi}$0.03±.09; $M_{\theta\phi}$−0.48±.03. Principal Axes: T 1.64,Plg2°,Azm255°; N −0.22,Plg16°,Azm164°; P −1.42,Plg74°,Azm353°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S0°,δ45°,λ−68°. NP2:ϕ_S150°,δ49°,λ−111°.						
	(135) Near coast of Central Chile						
ISC	**VII 06 09 54 00±2.0**	**30.05S±.030**	**71.81W±.049**	**14±12**	**5.8b,6.5s**	**399**	**3-176**
EIDC	VII 06 09 53 58.8	30.2S	72.1W	0	5.3b,6.8s		**¶97vii0861**
NEIC	VII 06 09 54 00.7	30.06S	71.87W	19	5.8b,6.5s		
MOS	VII 06 09 54 01.2	29.8S	71.7W	17	5.9b,6.7s		
BJI	VII 06 09 54 01.4	30.00S	71.84W	29	6.9s		
GUC	VII 06 09 54 01.5	30.18S	72.60W	53			
HRVD	VII 06 09 54 09.5±.1	30.22S±.01	72.21W	15			
NEIC	Mw6.8(GS), Me6.1(GS)						
NEIC	Radiated energy from the P−wave first−motion solution: 3.7±0.6×10^{13}Nm/24						
NEIC	Mw 6.8 (HRV). Ms 6.3 (BRK). Felt I=III MM at Coquimbo, La Serena, Ovalle and Vicuna. Mo=4.0×10^{19}Nm (PPT).						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S350°,δ25°,λ90°. NP2:ϕ_S170°,δ65°,λ90°. Principal axes: T Plg70°,Azm80°; P Plg20°,Azm260°. Two events about 3.0 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event.						
NEIC	Moment tensor solution: s55, scale 10^{19}Nm; M_{rr}1.20; $M_{\theta\theta}$−0.43; $M_{\phi\phi}$−0.77; $M_{r\theta}$0.64; $M_{r\phi}$−1.39; $M_{\theta\phi}$0.38. Depth 5km; Principal axes: T 1.98,Plg63°,Azm69°; N −0.19,Plg3°, Azm333°; P −1.79,Plg27°,Azm241°. Best double couple: $M_0$1.9×10^{19}Nm; NP1:ϕ_S323°,δ18°, λ80°. NP2:ϕ_S154°,δ72°,λ93°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s65,c167; Mantle waves: s71,c175; Half duration: 5s0. Moment tensor: Scale 10^{19}Nm; M_{rr}1.32±.00; $M_{\theta\theta}$−0.09±.00; $M_{\phi\phi}$−1.23±.00; $M_{r\theta}$0.06±.02; $M_{r\phi}$−1.45±.02; $M_{\theta\phi}$0.02±.00. Principal Axes: T 1.97,Plg66°,Azm86°; N −0.09,Plg1°,Azm178°; P −1.88,Plg24°,Azm269°. Best double couple: $M_0$1.9×10^{19}Nm, NP1:ϕ_S0°,δ21°,λ92°. NP2:ϕ_S178°,δ69°,λ89°.						
	(93) Belize						
ISC	**VII 06 20 13 37.0±.23**	**16.07N±.039**	**88.09W±.032**	**33**	**5.4b,5.5s**	**343**	**4-148**
EIDC	VII 06 20 13 32.1	16.1N	87.7W	0	4.9b,5.5s		**¶97vii0930**
HRVD	VII 06 20 13 34.0±.1	16.00N±.01	88.00W±.01	15			
NEIC	VII 06 20 13 37.0	16.16N	87.92W	33	5.5b,5.5s		
MOS	VII 06 20 13 39.5	16.3N	88.0W	33	5.6b,5.5s		
BJI	VII 06 20 13 40.0	16.10N	87.90W	33	6.3s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s65,c127; Mantle waves: s5,c6; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.40±.06; $M_{\theta\theta}$−4.67±.07; $M_{\phi\phi}$5.07±.09; $M_{r\theta}$−1.92±.18; $M_{r\phi}$0.38±.21; $M_{\theta\phi}$3.60±.06. Principal Axes: T 6.27,Plg2°,Azm109°; N 0.21,Plg72°,Azm205°; P −6.48,Plg18°,Azm18°. Best double couple: $M_0$6.4×10^{17}Nm, NP1:ϕ_S155°,δ76°,λ−169°. NP2:ϕ_S62°,δ79°,λ−14°.						
NEIC	Mw6.1(GS), Mw5.8(HRV)						
NEIC	Felt in the San Pedro Sula area, Honduras and in the Dangriga area, Belize.						
NEIC	Moment tensor solution: s25, scale 10^{18}Nm; M_{rr}0.13; $M_{\theta\theta}$−1.50; $M_{\phi\phi}$1.38; $M_{r\theta}$−0.24; $M_{r\phi}$0.39; $M_{\theta\phi}$0.82. Depth 37km; Principal axes: T 1.66,Plg12°,Azm284°; N 0.12,Plg74°, Azm145°; P −1.78,Plg10°,Azm16°. Best double couple: $M_0$1.7×10^{18}Nm; NP1:ϕ_S60°,δ74°, λ1°. NP2:ϕ_S330°,δ89°,λ164°.						
	(135) Near coast of Central Chile						
ISC	**VII 06 23 15 18±1.4**	**30.13S±.032**	**71.89W±.062**	**17±11**	**5.2b,5.3s**	**210**	**3-176**
NEIC	VII 06 23 15 20.4	30.16S	71.86W	33	5.3b,5.2s		**¶97vii0949**
BJI	VII 06 23 15 20.9	30.07S	71.81W	40	5.8s		
HRVD	VII 06 23 15 23.7±.1	30.26S±.02	72.46W±.02	15			
EIDC	VII 06 23 15 32.9	29.9S	71.8W	124	4.6b		
NEIC	Mw5.8(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c101; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}3.73±.07; $M_{\theta\theta}$0.22±.09; $M_{\phi\phi}$−3.95±.09; $M_{r\theta}$−0.32±.21; $M_{r\phi}$−3.46±.22; $M_{\theta\phi}$0.19±.07. Principal Axes: T 5.08,Plg69°,Azm102°; N 0.20, Plg4°,Azm1°; P −5.28,Plg21°,Azm269°. Best double couple: $M_0$5.2×10^{17}Nm, NP1:ϕ_S352°, δ24°,λ80°. NP2:ϕ_S183°,δ66°,λ95°.						
	(201) West Irian						
ISC	**VII 07 09 44 35±1.0**	**2.74S±.035**	**138.91E±.046**	**50±9.9**	**5.1b,4.8s**	**156**	**2-168**
BJI	VII 07 09 44 32.3	2.69S	139.02E	28	5.3b,4.8s		**¶97vii1025**
EIDC	VII 07 09 44 32.6	2.7S	139.0E	18	4.8b,4.7s		
NEIC	VII 07 09 44 33.0	2.73S	138.89E	33	5.1b,4.8s		
MOS	VII 07 09 44 33.2	2.6S	139.1E	33	5.6b		
HRVD	VII 07 09 44 40.1±1.5	2.74S±.12	139.09E±.10	15			
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c37; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.31±.62; $M_{\theta\theta}$−7.20±.61; $M_{\phi\phi}$−0.10±.94; $M_{r\theta}$−7.05±2.96; $M_{r\phi}$2.30±2.21; $M_{\theta\phi}$3.23±.60. Principal Axes: T 10.3,Plg68°,Azm195°; N 1.1, Plg2°,Azm290°; P −11.4,Plg22°,Azm20°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S114°, δ23°,λ95°. NP2:ϕ_S289°,δ67°,λ88°.						
	(706) Northern Sumatera						
ISC	**VII 07 11 24 40.8±.93**	**1.04N±.034**	**97.63E±.038**	**56±8.1**	**5.4b,5.8s**	**344**	**2-159**
MOS	VII 07 11 24 37.5	1.1N	97.4E	27	5.8b,5.8s		**¶97vii1033**
NEIC	VII 07 11 24 37.7	1.07N	97.60E	29	5.4b,5.7s		
BJI	VII 07 11 24 37.9	0.93N	97.65E	35	5.6b,6.2s		
KLM	VII 07 11 24 38	1.0N	97.6E	29	4.9L		
EIDC	VII 07 11 24 39.0	1.0N	97.6E	29	5.1b,5.6s		
HRVD	VII 07 11 24 41.8±.2	0.86N±.02	97.16E±.03	32±1.4			
NEIC	Mw5.9(GS), Me5.3(GS).						
NEIC	Mw 5.9 (HRV).						
NEIC	Radiated energy from the P−wave first−motion solution: 2.3±0.5×10^{12}Nm/12						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S135°,δ80°,λ105°. NP2:ϕ_S258°,δ18°,λ34°. Principal axes: T Plg53°,Azm63°; P Plg33°,Azm212°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s29, scale 10^{17}Nm; M_{rr}3.38; $M_{\theta\theta}$−4.78; $M_{\phi\phi}$1.40; $M_{r\theta}$4.46; $M_{r\phi}$−3.95; $M_{\theta\phi}$0.64. Depth 22km; Principal axes: T 7.35,Plg55°,Azm62°; N 0.00,Plg21°, Azm299°; P −7.35,Plg27°,Azm197°. Best double couple: $M_0$7.3×10^{17}Nm; NP1:ϕ_S247°,δ26°, λ35°. NP2:ϕ_S125°,δ75°,λ112°.						
KLM	Mb5.4						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c101; Mantle waves: s7,c11; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}2.88±.09; $M_{\theta\theta}$−2.00±.10; $M_{\phi\phi}$−0.88±.14; $M_{r\theta}$4.30±.25; $M_{r\phi}$−4.69±.25; $M_{\theta\phi}$2.48±.10. Principal Axes: T 6.74,Plg59°,Azm55°; N 1.00,Plg6°,Azm316°; P −7.74,Plg31°,Azm222°. Best double couple: $M_0$7.2×10^{17}Nm, NP1:ϕ_S294°,δ15°,λ68°. NP2:ϕ_S137°,δ76°,λ96°.						
	(213) Volcano Islands region						
ISC	**VII 08 02 24 04±1.3**	**23.81N±.020**	**142.81E±.027**	**11±7.6**	**5.8b,5.6s**	**627**	**3-167**
BJI	VII 08 02 24 05.8	23.98N	143.16E	38	5.6b,5.4s		**¶97vii1126**
NEIC	VII 08 02 24 07.3	23.80N	142.70E	33	5.8b,5.6s		
MOS	VII 08 02 24 07.5	23.8N	142.8E	33	6.2b,5.6s		
EIDC	VII 08 02 24 08.7	23.8N	142.8E	38	5.4b,4.7L		
HRVD	VII 08 02 24 10.5±.1	23.79N±.02	142.96E±.02	41			
JMA	VII 08 02 24 16.2±.3	24.53N±.02	143.17E±.03	84±5	5.6		
NEIC	Mw5.8(GS), Me5.8(GS).						
NEIC	Mw 5.8 (HRV).						
NEIC	Radiated energy from the P−wave first−motion solution: 1.0±0.2×10^{13}Nm/15						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S100°,δ80°,λ−120°. NP2:ϕ_S353°,δ31°, λ−19°. Principal axes: T Plg29°,Azm214°; P Plg47°,Azm339°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s44, scale 10^{17}Nm; M_{rr}−3.19; $M_{\theta\theta}$1.98; $M_{\phi\phi}$1.21; $M_{r\theta}$−3.80; $M_{r\phi}$0.05; $M_{\theta\phi}$2.64. Depth 25km; Principal axes: T 5.33,Plg20°,Azm148°; N 0.14,Plg24°, Azm247°; P −5.47,Plg57°,Azm22°. Best double couple: $M_0$5.4×10^{17}Nm; NP1:ϕ_S202°,δ33°, λ−140°. NP2:ϕ_S77°,δ70°,λ−64°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c110; Mantle waves: s19,c24; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.55±.06; $M_{\theta\theta}$1.48±.08; $M_{\phi\phi}$1.08±.09; $M_{r\theta}$−4.09±.15; $M_{r\phi}$0.65±.12; $M_{\theta\phi}$2.65±.08. Principal Axes: T 5.03,Plg23°,Azm149°; N 0.66,Plg29°,Azm253°; P −5.69,Plg51°,Azm28°. Best double couple: $M_0$5.4×10^{17}Nm, NP1:ϕ_S198°,δ34°,λ−150°. NP2:ϕ_S83°,δ74°,λ−59°.						
	(108) Off coast of Northern Peru						
ISC	**VII 08 03 23 18±4.1**	**9.43S±.063**	**80.49W±.090**	**4±24**	**4.6b,4.6s**	**135**	**4-171**
EIDC	VII 08 03 23 18.5	9.4S	80.4W	0	4.4b,3.9L		**¶97vii1136**
NEIC	VII 08 03 23 22.9	9.38S	80.39W	38	4.9b,4.6s		
BJI	VII 08 03 23 26.9	9.40S	80.40W	38	5.5s		
IGQ	VII 08 03 23 57.1	6.8S	80.3W	159	5.1b		
	(7) Andreanof Islands						
ISC	**VII 08 12 11 15±1.5**	**51.38N±.035**	**178.58W±.031**	**31±11**	**5.4b,5.4s**	**416**	**1-160**
BJI	VII 08 12 11 14.4	51.36N	178.60W	34	5.7b,5.6s		**¶97vii1185**
NEIC	VII 08 12 11 15.0	51.37N	178.58W	33	5.5b,5.4s		
MOS	VII 08 12 11 15.5	51.5N	178.6W	33	5.7b,5.6s		
EIDC	VII 08 12 11 16.2	51.5N	178.5W	31	5.0b,5.4s		
HRVD	VII 08 12 11 18.6±.1	51.36N±.01	178.29W±.02	36			
NEIC	Mw5.9(HRV), ML5.6(PMR). Felt I=III MM.						
NEIC	Mw 5.8 (GS). Me 5.4 (GS). Felt I=III MM on Adak.						
NEIC	Radiated energy from the P−wave first−motion solution: 2.5±0.6×10^{12}Nm/19						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S240°,δ35°,λ110°. NP2:ϕ_S36°,δ57°,λ77°. Principal axes: T Plg74°,Azm270°; P Plg11°,Azm136°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s57, scale 10^{17}Nm; M_{rr}3.98; $M_{\theta\theta}$−5.29; $M_{\phi\phi}$1.30; $M_{r\theta}$3.42; $M_{r\phi}$2.52; $M_{\theta\phi}$0.13. Depth 22km; Principal axes: T 6.30,Plg59°,Azm300°; N 0.17,Plg23°,Azm76°; P −6.47,Plg19°,Azm174°. Best double couple: $M_0$6.4×10^{17}Nm; NP1:ϕ_S297°,δ33°,λ136°. NP2: ϕ_S66°,δ68°,λ65°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c128; Mantle waves: s7,c10; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}4.85±.06; $M_{\theta\theta}$−4.64±.08; $M_{\phi\phi}$−0.21±.07; $M_{r\theta}$3.33±.14; $M_{r\phi}$2.70±.13; $M_{\theta\phi}$−2.14±.08. Principal Axes: T 6.52,Plg68°,Azm306°; N 0.44,Plg10°,Azm61°; P −6.95,Plg19°,Azm155°. Best double couple: $M_0$6.7×10^{17}Nm, NP1:ϕ_S261°,δ27°,λ112°. NP2:ϕ_S57°,δ65°,λ79°.						
	(403) North Atlantic Ridge						
ISC	**VII 09 14 47 17.2±.15**	**52.26N±.033**	**31.52W±.027**	**10**	**5.1b,5.0s**	**406**	**13-159**
EIDC	VII 09 14 47 16.3	52.1N	31.6W	0	4.7b,4.8s		**¶97vii1355**
BJI	VII 09 14 47 16.6	52.25N	31.79W	11	5.4b,5.5s		
NEIC	VII 09 14 47 16.8	52.22N	31.59W	10	5.3b,4.9s		
MOS	VII 09 14 47 17.4	52.2N	31.5W	10	5.6b,4.9s		
HRVD	VII 09 14 47 21.0±.3	52.26N±.03	31.30W±.04	15			
NEIC	Mw5.4(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c68; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.36±.03; $M_{\theta\theta}$−0.05±.03; $M_{\phi\phi}$0.41±.04; $M_{r\theta}$0.00±.00; $M_{r\phi}$0.00±.00; $M_{\theta\phi}$−1.30±.03. Principal Axes: T 1.50,Plg0°,Azm230°; N −0.36, Plg90°,Azm180°; P −1.14,Plg0°,Azm140°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S275°,δ90°,λ−180°. NP2:ϕ_S5°,δ90°,λ0°.						
	(97) Near coast of Venezuela						
ISC	**VII 09 19 24 10.3±.13**	**10.50N±.025**	**63.55W±.020**	**3**	**6.0b,6.8s**	**648**	**2-168**
TRN	VII 09 19 24 06.2	10.4N	63.9W	3			**¶97vii1382**
EIDC	VII 09 19 24 10.3	10.5N	63.5W	0	5.3b,6.9s		
MOS	VII 09 19 24 11.0	10.6N	63.5W	7	6.5b,6.7s		
BJI	VII 09 19 24 12.1	10.59N	63.44W	17	7.4s		
NEIC	VII 09 19 24 13.1	10.60N	63.49W	20	6.2b,6.8s		
HRVD	VII 09 19 24 23.4±.1	10.70N±.01	63.63W±.01	15			
TRN	MB6.2. At least 81 people killed, 522 injured, 3000 homeless, extensive damage and						

landslides in northeast Venezuela and neighbouring islands. Felt I=V MM on Trinidad. Also felt on Tobago

NEIC Mw7.0(HRV), Me6.5(GS). Casualties, landslide/avalanche observed.

NEIC Radiated energy from the P−wave first−motion solution: 1.1±0.2×10^{14}Nm/26

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S175°,δ88°,λ−45°. NP2:ϕ_S267°,δ45°, λ−177°. Principal axes: T Plg28°,Azm230°; P Plg32°,Azm121°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s57, scale 10^{19}Nm; M_{rr}−0.09; $M_{\theta\theta}$0.26; $M_{\phi\phi}$−0.17; $M_{r\theta}$0.31; $M_{r\phi}$0.68; $M_{\theta\phi}$−2.47. Depth 25km; Principal axes: T 2.55,Plg5°,Azm223°; N 0.09,Plg73°, Azm331°; P −2.63,Plg16°,Azm132°. Best double couple: $M_0$2.6×10^{19}Nm; NP1:ϕ_S268°,δ75°, λ−173°. NP2:ϕ_S177°,δ83°,λ−15°.

NEIC Mw 6.9 (GS). Ms 7.0 (BRK). At least 81 people killed, 522 injured, 3,000 homeless, extensive damage and landslides in the Cariaco-Cumana area. Several people injured in the Barcelona-Puerto La Cruz area. Some damage on Isla de Margarita. Power, telephone and water services disrupted on Isla Coche and Isla de Margarita. Felt in much of north eastern Venezuela and as far west as Maracaibo. Felt I=V MM on Trinidad. Also felt on Tobago. Mo=6.0×10^{19}Nm (PPT).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s71,c166; Mantle waves: s71,c177; Half duration: 7s4. Moment tensor: Scale 10^{19}Nm; M_{rr}−0.25±.01; $M_{\theta\theta}$0.57±.01; $M_{\phi\phi}$−0.32±.01; $M_{r\theta}$−0.12±.05; $M_{r\phi}$1.43±.06; $M_{\theta\phi}$−2.69±.01. Principal Axes: T 3.17,Plg17°,Azm223°; N −0.16,Plg62°,Azm349°; P −3.01,Plg21°,Azm126°. Best double couple: $M_0$3.1×10^{19}Nm, NP1:ϕ_S266°,δ62°,λ−177°. NP2:ϕ_S174°,δ87°,λ−28°.

(243) Taiwan region

ISC	**VII**	**10 08 19 54.5**±.21	**21.80N**±.026	**121.57E**±.028	**5**	**4.8b,4.7s**	**193**	**0-175**
TAP	VII	10 08 19 53.6	21.79N	121.62E	5	4.9L		**¶97vii1478**
EIDC	VII	10 08 19 54.4	21.8N	121.8E	0	4.4b,4.5s		
BJI	VII	10 08 19 56.3	21.77N	121.45E	17	4.2L,4.9b		
NEIC	VII	10 08 19 57.9	21.78N	121.74E	33	4.8b		
MOS	VII	10 08 20 01.5	22.2N	121.3E	33	5.5b,4.8s		
TAP	Felt I=IV J Lanyu							
BJI	Ms4.7							

(282) South of Java

ISC	**VII**	**10 13 10 47**±1.5	**10.77S**±.032	**113.62E**±.036	**31**±11	**5.1b,4.7s**	**192**	**2-153**
MOS	VII	10 13 10 47.7	10.7S	113.7E	33	5.5b,4.7s		**¶97vii1514**
BJI	VII	10 13 10 47.8	10.66S	113.74E	32	5.3b,4.9s		
NEIC	VII	10 13 10 48.1	10.75S	113.72E	33	5.1b,4.9s		
EIDC	VII	10 13 10 51.3	10.6S	113.7E	46	4.7b		
DJA	VII	10 13 10 51.6	10.5S	113.5E	93	5.4b,5.1D		
HRVD	VII	10 13 10 54.7±.5	10.56S±.03	113.95E±.05	59±2.7			

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s38,c60; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.54±.05; $M_{\theta\theta}$1.31±.05; $M_{\phi\phi}$−0.77±.10; $M_{r\theta}$0.34±.06; $M_{r\phi}$−0.19±.06; $M_{\theta\phi}$−0.33±.05. Principal Axes: T 1.43,Plg11°,Azm10°; N −0.55, Plg62°,Azm120°; P −0.88,Plg25°,Azm275°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S55°,δ64°,λ−169°. NP2:ϕ_S320°,δ80°,λ−26°.

(291) South of Sumbawa

ISC	**VII**	**10 14 53 07**±2.3	**11.22S**±.034	**118.02E**±.037	**2**±14	**5.4b,5.0s**	**204**	**3-152**
EIDC	VII	10 14 53 07.8	11.2S	118.1E	0	5.1b,4.9s		**¶97vii1524**
BJI	VII	10 14 53 10.4	11.21S	118.12E	31	5.6b,4.8s		
DJA	VII	10 14 53 10.9	11.5S	117.8E	33	6.1b,5.5D		
MOS	VII	10 14 53 11.2	11.2S	118.0E	33	6.0b		
NEIC	VII	10 14 53 11.5	11.26S	118.00E	33	5.4b,5.5s		
HRVD	VII	10 14 53 19.3±.4	11.06S±.04	117.89E±.07	35			

NEIC Mw5.4(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c31; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.61±.11; $M_{\theta\theta}$0.53±.07; $M_{\phi\phi}$1.07±.18; $M_{r\theta}$−0.53±.15; $M_{r\phi}$−0.26±.10; $M_{\theta\phi}$0.49±.08. Principal Axes: T 1.44,Plg9°,Azm123°; N 0.30, Plg9°,Azm215°; P −1.74,Plg77°,Azm346°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S203°,δ36°,λ−105°. NP2:ϕ_S41°,δ55°,λ−80°.

(121) Off coast of Northern Chile

ISC	**VII**	**10 14 55 50.0**±.23	**23.05S**±.037	**71.09W**±.052	**47**±1.6*	**5.0b,5.3s**	**154**	**5-174**
BJI	VII	10 14 55 49.4	22.70S	70.90W	33	5.9s		**¶97vii1526**
NEIC	VII	10 14 55 49.4	22.73S	70.89W	33	5.1b,5.3s		
HRVD	VII	10 14 55 52.6±.1	22.95S±.02	71.25W±.02	15			
EIDC	VII	10 14 55 53.3	22.7S	71.0W	53	4.5b,5.5s		

NEIC Mw5.9(HRV).

NEIC Felt I=IV MM at Mejillones and III MM at Maria Elena and Michilla.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c102; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}4.07±.07; $M_{\theta\theta}$−0.07±.09; $M_{\phi\phi}$−4.00±.12; $M_{r\theta}$−0.29±.22; $M_{r\phi}$−6.05±.24; $M_{\theta\phi}$−0.63±.07. Principal Axes: T 7.31,Plg62°,Azm89°; N 0.00, Plg3°,Azm185°; P −7.30,Plg28°,Azm276°. Best double couple: $M_0$7.3×10^{17}Nm, NP1:ϕ_S14°, δ17°,λ100°. NP2:ϕ_S184°,δ73°,λ87°.

(153) South Sandwich Islands region

ISC	**VII**	**10 23 29 15**±6.3	**57.96S**±.064	**25.4W**±.15	**10**±38	**4.9b,4.6s**	**81**	**15-158**
BJI	VII	10 23 29 17.5	57.90S	25.30W	33	5.5s		**¶97vii1587**
NEIC	VII	10 23 29 18.3	57.91S	25.30W	33	4.9b		
EIDC	VII	10 23 29 23.2	57.9S	25.5W	60	4.6b,4.3s		

(428) Atlantic-Indian Ridge

ISC	**VII**	**10 23 41 42.9**±.20	**34.68S**±.046	**54.57E**±.054	**10**	**5.1b,5.1s**	**231**	**16-174**
BJI	VII	10 23 41 40.9	34.85S	54.30E	13	5.4b,5.2s		**¶97vii1589**
EIDC	VII	10 23 41 41.9	34.8S	54.5E	0	4.7b		
MOS	VII	10 23 41 42.8	34.6S	54.5E	10	5.8b,4.9s		
NEIC	VII	10 23 41 42.9	34.69S	54.61E	10	5.3b,5.0s		
HRVD	VII	10 23 41 46.6±.2	34.58S±.03	54.69E±.04	15			

NEIC Mw5.4(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c74; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.37±.04; $M_{\theta\theta}$1.46±.04; $M_{\phi\phi}$−0.10±.06; $M_{r\theta}$0.04±.16; $M_{r\phi}$0.01±.12; $M_{\theta\phi}$−0.36±.04. Principal Axes: T 1.54,Plg1°,Azm12°; N −0.18, Plg1°,Azm282°; P −1.37,Plg89°,Azm135°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S103°,δ44°,λ−89°. NP2:ϕ_S281°,δ46°,λ−91°.

(221) Kuril Islands

ISC	**VII**	**14 16 09 31**±1.3	**43.16N**±.021	**146.43E**±.027	**7**±7.7	**5.9b,5.9s**	**837**	**1-154**
EIDC	VII	14 16 09 31.6	43.3N	146.3E	0	5.4b,5.7s		**¶97vii2170**
BJI	VII	14 16 09 34.3	43.33N	146.46E	33	5.6b,5.9s		
NEIC	VII	14 16 09 35.5	43.25N	146.38E	33	5.9b,5.8s		
JMA	VII	14 16 09 36.8±.4	43.11N±.02	146.29E±.04	37±3	5.9		
MOS	VII	14 16 09 37.3	43.4N	146.4E	42	6.2b,6.2s		
HRVD	VII	14 16 09 40.5±.1	43.19N±.01	146.47E±.01	34			

NEIC Mw6.1(GS), Me6.1(GS)

NEIC Radiated energy from the P−wave first−motion solution: 2.7±0.5×10^{13}Nm/22

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S255°,δ40°,λ140°. NP2:ϕ_S18°,δ66°,λ57°. Principal axes: T Plg56°,Azm244°; P Plg14°,Azm131°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s50, scale 10^{18}Nm; M_{rr}1.06; $M_{\theta\theta}$−0.10; $M_{\phi\phi}$−0.96; $M_{r\theta}$−0.02; $M_{r\phi}$1.00; $M_{\theta\phi}$−0.40. Depth 35km; Principal axes: T 1.49,Plg66°,Azm254°; N −0.02,Plg12°, Azm12°; P −1.47,Plg21°,Azm106°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S216°,δ26°, λ117°. NP2:ϕ_S7°,δ67°,λ77°.

JMA Felt I=II J1

MOS Felt I=IV MSK at Uzno−Kurilsk.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c123; Mantle waves: s45,c86; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}1.05±.01; $M_{\theta\theta}$−0.11±.01; $M_{\phi\phi}$−0.94±.01; $M_{r\theta}$0.06±.03; $M_{r\phi}$1.28±.02; $M_{\theta\phi}$−0.77±.01. Principal Axes: T 1.73,Plg60°,Azm250°; N 0.14,Plg19°,Azm17°; P −1.87,Plg22°,Azm115°. Best double couple: $M_0$1.8×10^{18}Nm, NP1:ϕ_S236°,δ28°,λ133°. NP2:ϕ_S9°,δ70°,λ70°.

(403) North Atlantic Ridge

ISC	**VII**	**16 10 53 10.4**±.34	**28.48N**±.070	**43.69W**±.038	**10**	**4.6b,5.1s**	**157**	**27-175**
BJI	VII	16 10 53 07.9	28.41N	43.94W	16	5.7b,5.4s		**¶97vii2430**
EIDC	VII	16 10 53 09.3	28.1N	43.8W	0	4.2b,4.9s		
NEIC	VII	16 10 53 10.0	28.45N	43.70W	10	4.9b,5.1s		
HRVD	VII	16 10 53 16.9±.4	28.60N±.05	43.50W±.04	15			

NEIC Mw5.4(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c44; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.57±.05; $M_{\theta\theta}$0.16±.07; $M_{\phi\phi}$1.40±.08; $M_{r\theta}$0.00±.00; $M_{r\phi}$0.00±.00; $M_{\theta\phi}$0.22±.06. Principal Axes: T 1.44,Plg0°,Azm100°; N 0.12, Plg0°,Azm10°; P −1.57,Plg90°,Azm180°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S190°, δ45°,λ−90°. NP2:ϕ_S10°,δ45°,λ−90°.

(135) Near coast of Central Chile

ISC	**VII**	**19 12 22 54**±1.9	**29.20S**±.028	**71.59W**±.046	**4**±12	**5.8b,5.6s**	**385**	**3-177**
EIDC	VII	19 12 22 54.2	29.4S	71.7W	0	5.6b,5.3L		**¶97vii2872**
BJI	VII	19 12 22 57.2	29.22S	71.72W	30	6.0s		
NEIC	VII	19 12 22 57.3	29.28S	71.68W	26	5.8b,5.5s		
MOS	VII	19 12 23 00.2	28.8S	71.6W	31	6.4b,5.7s		
HRVD	VII	19 12 23 03.6±.1	29.54S±.02	72.05W±.02	33			

NEIC Mw5.9(GS), Me5.8(GS)

NEIC Radiated energy from the P−wave first−motion solution: 1.1±0.2×10^{13}Nm/14

NEIC Mw 5.9 (HRV). Felt I=V MM at Vallenar; IV MM at Caldera, Chanaral, Copiapo, El Salvador and Ovalle; III MM at Coquimbo and La Serena.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S315°,δ55°,λ60°. NP2:ϕ_S180°,δ45°,λ126°. Principal axes: T Plg65°,Azm168°; P Plg6°,Azm66°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s28, scale 10^{17}Nm; M_{rr}4.20; $M_{\theta\theta}$1.78; $M_{\phi\phi}$−5.98; $M_{r\theta}$−2.93; $M_{r\phi}$−1.81; $M_{\theta\phi}$3.34. Depth 29km; Principal axes: T 7.06,Plg50°,Azm156°; N 0.21,Plg40°, Azm344°; P −7.26,Plg4°,Azm251°. Best double couple: $M_0$7.2×10^{17}Nm; NP1:ϕ_S307°,δ54°, λ38°. NP2:ϕ_S192°,δ60°,λ137°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c88; Mantle waves: s5,c8; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; M_{rr}4.92±.09; $M_{\theta\theta}$1.91±.14; $M_{\phi\phi}$−6.83±.15; $M_{r\theta}$−2.90±.19; $M_{r\phi}$−2.58±.22; $M_{\theta\phi}$2.50±.09. Principal Axes: T 7.54,Plg55°,Azm156°; N 0.22,Plg34°,Azm354°; P −7.76,Plg9°,Azm258°. Best double couple: $M_0$7.7×10^{17}Nm, NP1:ϕ_S315°,δ47°,λ40°. NP2:ϕ_S195°,δ62°,λ129°.

(58) Near coast of Guerrero, Mexico

ISC	**VII**	**19 14 22 08.9**±.83	**16.34N**±.040	**98.19W**±.032	**31**±5.5	**5.5b,6.3s**	**392**	**0-155**
EIDC	VII	19 14 22 02.7	15.9N	98.3W	0	4.7b,6.4s		**¶97vii2888**
MEX	VII	19 14 22 04.2	15.9N	98.3W	5	5.3D		
MOS	VII	19 14 22 05.4	15.9N	98.2W	33	6.1b,6.4s		
NEIC	VII	19 14 22 08.7	16.33N	98.22W	33	5.7b,6.3s		
BJI	VII	19 14 22 09.7	16.30N	98.20W	15	7.1s		
HRVD	VII	19 14 22 18.3±.1	15.86N±.01	98.26W±.01	15			

NEIC Mw6.9(GS), Me6.0(GS). Felt.

NEIC Radiated energy from the USGS moment tensor solution: 2.3±0.4×10^{13}Nm/15

NEIC Mw 6.7 (HRV). Ms 6.1 (BRK). Felt in Guerrero and Oaxaca. Also felt at Mexico City. Mo=1.5×10^{19}Nm (PPT). COMMENT: Complex event observed on broadband displacement seismograms.

NEIC Moment tensor solution: s33, scale 10^{19}Nm; M_{rr}0.88; $M_{\theta\theta}$−1.04; $M_{\phi\phi}$0.16; $M_{r\theta}$2.17; $M_{r\phi}$−0.87; $M_{\theta\phi}$0.27. Depth 4km; Principal axes: T 2.45,Plg56°,Azm27°; N 0.19,Plg5°, Azm291°; P −2.64,Plg34°,Azm197°. Best double couple: $M_0$2.5×10^{19}Nm; NP1:ϕ_S268°,δ12°, λ67°. NP2:ϕ_S111°,δ79°,λ95°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c111; Mantle waves: s42,c99; Half duration: 4s9. Moment tensor: Scale 10^{18}Nm; M_{rr}5.93±.03; $M_{\theta\theta}$−4.92±.03; $M_{\phi\phi}$−1.01±.04; $M_{r\theta}$9.39±.15; $M_{r\phi}$−4.63±.15; $M_{\theta\phi}$1.38±.03. Principal Axes: T 12.2,Plg59°,Azm29°; N −0.7,Plg3°,Azm294°; P −11.6,Plg31°,Azm202°. Best double couple: $M_0$1.2×10^{19}Nm, NP1:ϕ_S282°,δ14°,λ78°. NP2:ϕ_S115°,δ76°,λ93°.

(189) Loyalty Islands region

ISC	**VII**	**19 16 10 15**±1.9	**22.99S**±.037	**169.90E**±.037	**19**±14	**5.4b,5.4s**	**476**	**3-163**
BJI	VII	19 16 10 15.9	22.89S	170.08E	31	5.5b,5.8s		**¶97vii2912**
NEIC	VII	19 16 10 16.5	22.96S	169.86E	33	5.7b,5.4s		
EIDC	VII	19 16 10 16.8	23.1S	170.1E	29	5.0b,4.8L		
MOS	VII	19 16 10 16.9	22.9S	169.9E	33	6.0b		

(9) Fox Islands

ISC	**VII**	**20 00 30 20.9**±.15	**52.51N**±.032	**167.56W**±.031	**14**	**5.6b,6.0s**	**550**	**5-162**
BJI	VII	20 00 30 18.9	52.63N	167.61W	11	5.8b,6.2s		**¶97vii2978**
EIDC	VII	20 00 30 19.5	52.6N	167.6W	0	5.1b,4.3L		
MOS	VII	20 00 30 20.4	52.6N	167.5W	10	6.1b,6.1s		
NEIC	VII	20 00 30 20.9	52.56N	167.48W	14	5.6b,5.9s		
HRVD	VII	20 00 30 26.4±.1	52.33N±.01	167.37W±.02	19			

NEIC Mw6.1(GS), Me5.7(GS).

NEIC Mw 6.1 (HRV).

NEIC Radiated energy from the P−wave first−motion solution: 7.6±1.0×10^{12}Nm/21

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S240°,δ4°,λ90°. NP2:ϕ_S60°,δ86°,λ90°. Principal axes: T Plg49°,Azm330°; P Plg41°,Azm150°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s58, scale 10^{18}Nm; M_{rr}0.35; $M_{\theta\theta}$−0.20; $M_{\phi\phi}$−0.14; $M_{r\theta}$1.36; $M_{r\phi}$0.63; $M_{\theta\phi}$0.01. Depth 7km; Principal axes: T 1.60,Plg50°,Azm334°; N −0.16,Plg1°, Azm65°; P −1.44,Plg40°,Azm156°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S257°,δ5°, λ102°. NP2:ϕ_S65°,δ85°,λ89°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s51,c112; Mantle waves: s44,c67; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}0.95±.01; $M_{\theta\theta}$−0.80±.01; $M_{\phi\phi}$−0.15±.01; $M_{r\theta}$1.02±.03; $M_{r\phi}$0.43±.03; $M_{\theta\phi}$−0.40±.01. Principal Axes: T 1.46,Plg65°,Azm339°; N 0.04,Plg1°,Azm246°; P −1.49,Plg24°,Azm155°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S243°,δ21°,λ86°. NP2:ϕ_S66°,δ70°,λ91°.

(135) Near coast of Central Chile

ISC	**VII**	**21 23 19 38**±1.6	**30.31S**±.032	**71.91W**±.066	**24**±12	**5.0b,5.6s**	**212**	**3-176**
EIDC	VII	21 23 19 35.6	30.4S	72.0W	0	4.7b,5.8s		**¶97vii3297**
NEIC	VII	21 23 19 39.3	30.33S	71.92W	33	5.2b,5.5s		
MOS	VII	21 23 19 43.4	30.3S	73.5W	33	5.5b,5.8s		
BJI	VII	21 23 19 44.3	30.30S	71.90W	40	6.1s		
HRVD	VII	21 23 19 49.8±.4	30.72S±.03	71.79W±.05	15			

NEIC Mw6.0(GS), Mw5.9(HRV)

NEIC Felt I=III MM at La Serena.

NEIC Moment tensor solution: s24, scale 10^{18}Nm; M_{rr}0.37; $M_{\theta\theta}$−0.10; $M_{\phi\phi}$−0.27; $M_{r\theta}$0.30; $M_{r\phi}$−1.01; $M_{\theta\phi}$0.07. Depth 4km; Principal axes: T 1.14,Plg54°,Azm74°; N −0.07,Plg0°, Azm343°; P −1.06,Plg36°,Azm253°. Best double couple: $M_0$1.1×10^{18}Nm; NP1:ϕ_S341°,δ9°, λ87°. NP2:ϕ_S163°,δ81°,λ90°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c46; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}5.86±.15; $M_{\theta\theta}$1.05±.15; $M_{\phi\phi}$−6.91±.23; $M_{r\theta}$1.44±.38; $M_{r\phi}$−5.88±.48; $M_{\theta\phi}$−1.37±.14. Principal Axes: T 8.61,Plg64°,Azm57°; N 0.66, Plg14°,Azm179°; P −9.26,Plg21°,Azm275°. Best double couple: $M_0$8.9×10^{17}Nm, NP1: ϕ_S29°,δ27°,λ123°. NP2:ϕ_S173°,δ67°,λ74°.

(406) Central Mid-Atlantic Ridge

ISC	**VII**	**22 19 10 35.4**±.19	**4.65N**±.040	**32.69W**±.028	**10**	**5.3b,5.0s**	**353**	**14-163**
NEIC	VII	22 19 10 35.0	4.62N	32.69W	10	5.4b,5.1s		**¶97vii3417**
MOS	VII	22 19 10 35.2	4.7N	32.7W	10	5.5b,4.8s		
BJI	VII	22 19 10 35.4	4.61N	32.69W	17	5.8s		

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
EIDC	VII	22 19 10 37.7	4.6N	32.7W	17	4.7b,5.0s		
HRVD	VII	22 19 10 41.0±.2	4.73N±.03	32.79W±.04	15			
NEIC	Mw5.4(HRV), Mw5.3(GS).							
NEIC	Moment tensor solution: s6, scale 10^{17}Nm; M_{rr}−0.92; $M_{\theta\theta}$−0.09; $M_{\phi\phi}$1.01; $M_{r\theta}$0.11; $M_{r\phi}$−0.37; $M_{\theta\phi}$−0.12. Depth 6km; Principal axes: T 1.10,Plg11°,Azm83°; N −0.10,Plg4°, Azm352°; P −0.99,Plg78°,Azm241°. Best double couple: $M_0$1.0×10^{17}Nm; NP1:ϕ_S178°,δ34°, λ−83°. NP2:ϕ_S349°,δ56°,λ−95°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c73; Mantle waves: s2,c4; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.49±.03; $M_{\theta\theta}$0.21±.05; $M_{\phi\phi}$1.27±.05; $M_{r\theta}$0.29±.13; $M_{r\phi}$−0.43±.16; $M_{\theta\phi}$0.01±.03. Principal Axes: T 1.34,Plg9°,Azm88°; N 0.26,Plg9°,Azm357°; P −1.60,Plg77°,Azm223°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S188°,δ37°,λ−75°. NP2:ϕ_S350°,δ55°,λ−101°.							
	(111) Northern Peru							
ISC	**VII**	**23 14 03 28**±1.1	**6.07S**±.035	**75.92W**±.046	**15**±7.6	**5.2b,4.3s**	**273**	**5-167**
NEIC	VII	23 14 03 29.9	6.10S	75.95W	30	5.3b,4.2s		**¶97vii3538**
MOS	VII	23 14 03 30.7	6.1S	75.9W	33	5.5b,4.2s		
EIDC	VII	23 14 03 31.9	6.0S	75.8W	31	4.8b,4.4s		
IGQ	VII	23 14 03 33.0	6.1S	75.9W	33	5.3b		
BJI	VII	23 14 03 33.9	6.00S	75.90W	30			
	(134) Off coast of Central Chile							
ISC	**VII**	**24 19 54 39**±1.8	**30.55S**±.038	**72.03W**±.077	**25**±13	**4.8b,5.1s**	**180**	**2-176**
GUC	VII	24 19 54 35.7	30.45S	72.40W	33			**¶97vii3714**
EIDC	VII	24 19 54 36.1	30.5S	71.9W	0	4.6b,4.6L		
NEIC	VII	24 19 54 39.6	30.58S	72.02W	33	5.0b,5.0s		
BJI	VII	24 19 54 40.6	30.73S	72.27W	32	5.7s		
MOS	VII	24 19 54 41.2	30.5S	71.8W	33	5.3b,5.2s		
HRVD	VII	24 19 54 43.2±.1	30.63S±.02	72.63W±.02	15			
NEIC	Mw5.7(HRV)							
NEIC	Felt I=IV MM at La Serena and III MM at Ovalle, Paihuano and Papudo.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c90; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}3.26±.06; $M_{\theta\theta}$0.25±.08; $M_{\phi\phi}$−3.51±.07; $M_{r\theta}$0.07±.19; $M_{r\phi}$−1.77±.21; $M_{\theta\phi}$0.05±.06. Principal Axes: T 3.70,Plg76°,Azm86°; N 0.25, Plg1°,Azm179°; P −3.94,Plg14°,Azm269°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S0°, δ31°,λ91°. NP2:ϕ_S179°,δ59°,λ89°.							
	(135) Near coast of Central Chile							
ISC	**VII**	**25 06 47 03.0**±.18	**30.48S**±.028	**71.88W**±.052	**37**±2.7*	**5.4b,5.6s**	**280**	**2-176**
EIDC	VII	25 06 46 58.8	30.5S	72.0W	0	5.2b,5.8s		**¶97vii3783**
NEIC	VII	25 06 47 02.6	30.46S	71.91W	33	5.6b,5.5s		
BJI	VII	25 06 47 03.2	30.38S	71.94W	42	6.2s		
MOS	VII	25 06 47 03.8	30.3S	72.1W	33	5.9b,5.7s		
HRVD	VII	25 06 47 06.4±.1	30.54S±.01	72.37W±.01	15			
NEIC	Mw6.2(GS), Mw6.1(HRV)							
NEIC	Felt I=III MM at Coquimbo and La Serena; II MM at Valparaiso.							
NEIC	Moment tensor solution: s37, scale 10^{18}Nm; M_{rr}1.08; $M_{\theta\theta}$−0.42; $M_{\phi\phi}$−0.66; $M_{r\theta}$0.76; $M_{r\phi}$−2.16; $M_{\theta\phi}$0.59. Depth 3km; Principal axes: T 2.57,Plg57°,Azm79°; N −0.05,Plg8°, Azm337°; P −2.52,Plg32°,Azm242°. Best double couple: $M_0$2.5×10^{18}Nm; NP1:ϕ_S305°,δ15°, λ57°. NP2:ϕ_S158°,δ78°,λ98°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c115; Mantle waves: s53,c84; Half duration: 2s3. Moment tensor: Scale 10^{18}Nm; M_{rr}1.16±.01; $M_{\theta\theta}$−0.08±.01; $M_{\phi\phi}$−1.08±.01; $M_{r\theta}$−0.05±.04; $M_{r\phi}$−0.93±.04; $M_{\theta\phi}$0.15±.01. Principal Axes: T 1.50,Plg70°,Azm100°; N −0.07,Plg5°,Azm356°; P −1.43,Plg20°,Azm264°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S345°,δ26°,λ78°. NP2:ϕ_S178°,δ65°,λ96°.							
	(135) Near coast of Central Chile							
ISC	**VII**	**25 07 33 27**±1.8	**30.49S**±.038	**71.98W**±.083	**17**±14	**4.8b,6.0s**	**135**	**2-176**
EIDC	VII	25 07 33 26.0	30.4S	71.8W	0	4.6b,4.4L		**¶97vii3793**
NEIC	VII	25 07 33 29.0	30.55S	72.02W	33	5.1b		
MOS	VII	25 07 33 29.6	30.5S	71.7W	33	5.4b		
BJI	VII	25 07 33 30.8	30.69S	72.18W	40	6.3s		
HRVD	VII	25 07 33 37.8±.2	30.69S±.04	72.30W±.04	15			
NEIC	Mw6.1(HRV).							
NEIC	Felt I=IV MM at Coquimbo, La Serena and Ovalle; III MM at Canela, Combarbala, Illapel, Monte Patria, Paihuano and Punitaqui; II MM at Salamanca and Valparaiso.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c62; Mantle waves: s1,c1; Half duration: 2s2. Moment tensor: Scale 10^{18}Nm; M_{rr}1.09±.03; $M_{\theta\theta}$−0.08±.05; $M_{\phi\phi}$−1.01±.04; $M_{r\theta}$−0.23±.10; $M_{r\phi}$−0.89±.14; $M_{\theta\phi}$−0.06±.03. Principal Axes: T 1.44,Plg69°,Azm111°; N −0.09,Plg5°,Azm8°; P −1.35,Plg20°,Azm277°. Best double couple: $M_0$1.4×10^{18}Nm, NP1:ϕ_S358°,δ25°,λ79°. NP2:ϕ_S191°,δ66°,λ95°.							
	(134) Off coast of Central Chile							
ISC	**VII**	**25 07 34 33.5**±.40	**30.57S**±.084	**72.4W**±.12	**33**	**5.1b,5.6s**	**100**	**10-174**
NEIC	VII	25 07 34 30.7	30.49S	71.95W	33	5.4b,5.5s		**¶97vii3794**
EIDC	VII	25 07 34 31.6	30.5S	72.1W	0	5.0b,5.6s		
NEIC	Felt I=IV MM, Less reliable solution.							
	(135) Near coast of Central Chile							
ISC	**VII**	**27 05 21 27**±1.5	**30.50S**±.031	**71.89W**±.060	**18**±11	**5.3b,5.9s**	**269**	**2-176**
EIDC	VII	27 05 21 25.7	30.3S	71.9W	0	4.8b,6.0s		**¶97vii4064**
BJI	VII	27 05 21 29.1	30.41S	71.82W	34	6.2s		
NEIC	VII	27 05 21 29.2	30.52S	71.86W	33	5.6b,5.8s		
MOS	VII	27 05 21 30.1	30.4S	71.9W	33	5.7b		
HRVD	VII	27 05 21 33.8±.1	30.64S±.01	72.41W±.01	15			
NEIC	Mw6.3(HRV), Mw6.2(GS). Felt I=II MM.							
NEIC	Felt I=II MM at La Serena.							
NEIC	Moment tensor solution: s38, scale 10^{18}Nm; M_{rr}0.58; $M_{\theta\theta}$−0.31; $M_{\phi\phi}$−0.28; $M_{r\theta}$0.59; $M_{r\phi}$−1.75; $M_{\theta\phi}$−1.37. Depth 11km; Principal axes: T 2.58,Plg42°,Azm55°; N −0.54,Plg39°, Azm190°; P −2.04,Plg24°,Azm301°. Best double couple: $M_0$2.3×10^{18}Nm; NP1:ϕ_S80°,δ40°, λ164°. NP2:ϕ_S182°,δ80°,λ51°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c131; Mantle waves: s56,c108; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}1.92±.01; $M_{\theta\theta}$−0.11±.01; $M_{\phi\phi}$−1.80±.01; $M_{r\theta}$0.05±.05; $M_{r\phi}$−2.35±.05; $M_{\theta\phi}$0.13±.01. Principal Axes: T 3.05,Plg64°,Azm90°; N −0.11,Plg1°,Azm358°; P −2.94,Plg26°,Azm267°. Best double couple: $M_0$3.0×10^{18}Nm, NP1:ϕ_S354°,δ19°,λ86°. NP2:ϕ_S178°,δ71°,λ91°.							
	(400) Mediterranean Sea							
ISC	**VII**	**27 10 07 52.9**±.15	**35.59N**±.018	**21.09E**±.015	**36**±1.8*	**5.4b,4.8s**	**650**	**2-147**
EIDC	VII	27 10 07 48.2	35.4N	21.1E	0	5.3b,4.9s		**¶97vii4092**
CSEM	VII	27 10 07 48.5	35.58N	21.07E	15			
RYD	VII	27 10 07 48.6	35.58N	21.07E	34	5.5D		
ATH	VII	27 10 07 52.3	35.28N	21.00E	40	5.2L		
BJI	VII	27 10 07 52.5	35.64N	21.07E	38	5.7b,5.2s		
NEIC	VII	27 10 07 52.5	35.58N	21.06E	33	5.5b,4.8s		
THE	VII	27 10 07 52.7	35.5N	21.2E	14	5.1L		
MOS	VII	27 10 07 53.7	35.7N	21.1E	33	6.2b,4.6s		
HRVD	VII	27 10 07 56.6±.3	35.49N±.04	20.91E±.04	33			
PDG	VII	27 10 08 02.2	36.0N	19.4E	51	5.6L,5.5D		
CSEM	Mw5.6. M_0=2.5±2.0×10^{17}Nm. Fault plane solution NP1:ϕ_S128°,δ20°,λ−120°. NP2:ϕ_S340°, δ73°,λ−80°. Principal Axes: T Plg27°,Azm61°; N Plg10°,Azm156°; P Plg61°,Azm265°.							
NEIC	Mw5.8(GS), M_L5.2(ROM)							
NEIC	Mw 5.6 (HRV), 5.5 (CSEM). Felt in the Cairo area, Egypt.							
NEIC	Moment tensor solution: s14, scale 10^{17}Nm; M_{rr}0.05; $M_{\theta\theta}$4.08; $M_{\phi\phi}$−4.13; $M_{r\theta}$0.01; $M_{r\phi}$−0.97; $M_{\theta\phi}$−2.61. Depth 13km; Principal axes: T 4.85,Plg3°,Azm17°; N 0.20,Plg79°, Azm125°; P −5.06,Plg10°,Azm286°. Best double couple: $M_0$5.0×10^{17}Nm; NP1:ϕ_S62°,δ80°, λ−175°. NP2:ϕ_S331°,δ85°,λ−10°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c61; Mantle waves: s2,c2; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.31±.06; $M_{\theta\theta}$−0.53±.08; $M_{\phi\phi}$0.84±.09; $M_{r\theta}$0.10±.14; $M_{r\phi}$−1.10±.15; $M_{\theta\phi}$−2.17±.08. Principal Axes: T 2.73,Plg18°,Azm56°; N −0.43,Plg65°,Azm188°; P −2.30,Plg18°,Azm320°. Best double couple: $M_0$2.5×10^{17}Nm, NP1:ϕ_S98°,δ65°,λ180°. NP2:ϕ_S188°,δ90°,λ25°.							
	(273) South-west of Sumatera							
ISC	**VII**	**27 16 47 49**±1.5	**6.29S**±.063	**103.79E**±.090	**57**±12	**4.7b,4.5s**	**85**	**2-156**
DJA	VII	27 16 47 41.0	6.8S	103.1E	50	5.6b,5.5L		**¶97vii4138**
MOS	VII	27 16 47 49.1	6.4S	103.8E	60	5.3b		
BJI	VII	27 16 47 49.9	6.31S	103.85E	66	4.9b,4.7s		
EIDC	VII	27 16 47 49.9	6.2S	103.7E	44	4.4b,3.7s		
NEIC	VII	27 16 47 50.4	6.22S	103.88E	65	4.6b		
NEIC	Less reliable solution.							
	(273) South-west of Sumatera							
ISC	**VII**	**27 22 35 58**±1.2	**6.05S**±.050	**103.87E**±.063	**53**±10	**4.9b,4.8s**	**126**	**1-156**
EIDC	VII	27 22 35 52.6	6.1S	103.7E	0	4.9b,4.8s		**¶97vii4172**
DJA	VII	27 22 35 53.6	6.4S	103.3E	76	6.1b,5.8L		
BJI	VII	27 22 35 57.7	6.17S	103.74E	57	5.2b,4.9s		
NEIC	VII	27 22 35 58.3	6.04S	103.85E	53	4.9b		
MOS	VII	27 22 35 59.3	5.6S	104.0E	42	5.6b,4.7s		
HRVD	VII	27 22 36 03.3±.6	6.51S±.05	103.87E±.08	15			
NEIC	Mw5.1(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.23±.59; $M_{\theta\theta}$−6.50±.45; $M_{\phi\phi}$3.27±.96; $M_{r\theta}$2.58±.74; $M_{r\phi}$−0.46±.54; $M_{\theta\phi}$2.49±.47. Principal Axes: T 4.01,Plg42°,Azm296°; N 3.71, Plg45°,Azm90°; P −7.72,Plg14°,Azm193°. Best double couple: $M_0$5.9×10^{16}Nm, NP1: ϕ_S325°,δ50°,λ156°. NP2:ϕ_S71°,δ72°,λ42°.							
	(213) Volcano Islands region							
ISC	**VII**	**28 06 46 54**±1.0	**22.36N**±.020	**142.80E**±.031	**18**±7.1	**5.5b,5.7s**	**533**	**5-171**
NEIC	VII	28 06 46 55.7	22.36N	142.73E	33	5.7b,5.8s		**¶97vii4220**
MOS	VII	28 06 46 56.1	22.4N	142.8E	33	6.2b,5.7s		
BJI	VII	28 06 46 56.9	22.58N	142.90E	38	5.6b,5.6s		
EIDC	VII	28 06 46 56.9	22.3N	142.9E	32	4.9b,4.3L		
HRVD	VII	28 06 46 58.5±.1	22.26N±.02	142.68E±.02	15			
NEIC	Ms6.1(BRK), Mw5.9(HRV).							
NEIC	Mw 5.8 (GS). Me 5.7 (GS).							
NEIC	Radiated energy from the USGS moment tensor solution: 7.3±1.6×10^{12}Nm/14							
NEIC	Moment tensor solution: s31, scale 10^{17}Nm; M_{rr}−7.39; $M_{\theta\theta}$3.63; $M_{\phi\phi}$3.79; $M_{r\theta}$0.50; $M_{r\phi}$−0.78; $M_{\theta\phi}$−1.38. Depth 6km; Principal axes: T 5.15,Plg4°,Azm47°; N 2.31,Plg1°, Azm137°; P −7.46,Plg86°,Azm240°. Best double couple: $M_0$6.3×10^{17}Nm; NP1:ϕ_S136°,δ41°, λ−92°. NP2:ϕ_S318°,δ49°,λ−89°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c120; Mantle waves: s18,c25; Half duration: 2s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−8.41±.09; $M_{\theta\theta}$1.96±.13; $M_{\phi\phi}$6.45±.13; $M_{r\theta}$0.81±.35; $M_{r\phi}$0.71±.41; $M_{\theta\phi}$−2.96±.10. Principal Axes: T 7.92,Plg1°,Azm244°; N 0.61,Plg7°,Azm334°; P −8.53,Plg83°,Azm145°. Best double couple: $M_0$8.2×10^{17}Nm, NP1:ϕ_S327°,δ44°,λ−99°. NP2:ϕ_S160°,δ46°,λ−81°.							
	(213) Volcano Islands region							
ISC	**VII**	**28 07 01 18**±1.7	**22.30N**±.042	**142.77E**±.067	**51**±16	**4.7b,**5.1s	**99**	**5-168**
BJI	VII	28 07 01 14.7	22.46N	143.01E	33	4.8b,5.2s		**¶97vii4222**
NEIC	VII	28 07 01 15.5	22.33N	142.79E	33	4.9b		
EIDC	VII	28 07 01 16.0	22.3N	142.9E	24	4.5b,4.1L		
MOS	VII	28 07 01 18.7	23.0N	143.0E	33	5.5b		
	(213) Volcano Islands region							
ISC	**VII**	**28 09 51 13**±1.1	**22.24N**±.027	**142.78E**±.040	**34**±9.9	**5.0b,4.5s**	**236**	**5-168**
HRVD	VII	28 09 51 10.6±1.6	21.88N±.30	143.15E±.16	15			**¶97vii4246**
NEIC	VII	28 09 51 11.1	22.26N	142.77E	25	5.2b,4.6s		
MOS	VII	28 09 51 11.7	22.3N	142.9E	31	5.7b,4.6s		
BJI	VII	28 09 51 12.0	22.60N	142.94E	26	5.1b,4.7s		
EIDC	VII	28 09 51 12.8	22.3N	142.9E	24	4.7b,3.7L		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s9,c11; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.94±.80; $M_{\theta\theta}$−2.83±1.34; $M_{\phi\phi}$5.78±.89; $M_{r\theta}$−0.47±4.00; $M_{r\phi}$1.83±4.70; $M_{\theta\phi}$−3.42±.91. Principal Axes: T 7.32,Plg10°,Azm251°; N −3.26,Plg75°,Azm23°; P −4.06,Plg11°,Azm159°. Best double couple: $M_0$5.7×10^{16}Nm, NP1: ϕ_S295°,δ75°,λ−180°. NP2:ϕ_S205°,δ90°,λ−15°.							
NEIC	Mw5.1(HRV).							
	(49) Gulf of California							
ISC	**VII**	**28 10 09 00.1**±.67	**25.59N**±.037	**109.66W**±.039	**56**±5.7	**5.0b,4.9s**	**219**	**4-140**
NEIC	VII	28 10 08 53.0	25.35N	109.64W	10	5.2b,5.0s		**¶97vii4247**
MOS	VII	28 10 08 55.5	26.0N	110.0W	10	5.6b,5.0s		
EIDC	VII	28 10 08 55.5	25.5N	109.5W	16	4.5b,4.8s		
HRVD	VII	28 10 09 00.4±.6	26.03N±.08	109.66W±.10	15			
MEX	VII	28 10 09 02.4	25.6N	109.4W	20	5.6D		
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c32; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.19±.07; $M_{\theta\theta}$−0.14±.11; $M_{\phi\phi}$1.33±.09; $M_{r\theta}$−0.10±.28; $M_{r\phi}$0.69±.34; $M_{\theta\phi}$0.30±.07. Principal Axes: T 1.55,Plg14°,Azm279°; N −0.15, Plg10°,Azm187°; P −1.39,Plg73°,Azm62°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S23°, δ33°,λ−71°. NP2:ϕ_S181°,δ59°,λ−102°.							
	(294) Myanmar-India border region							
ISC	**VII**	**31 15 59 37.0**±.14	**23.91N**±.029	**93.22E**±.027	**33**	**5.3b,4.7s**	**410**	**6-161**
EIDC	VII	31 15 59 34.7	24.0N	93.2E	5	5.1b,4.5s		**¶97vii4757**
MOS	VII	31 15 59 35.6	23.7N	93.3E	33	5.7b,4.7s		
BJI	VII	31 15 59 37.0	24.18N	93.14E	23	5.2L,5.0b		
NEIC	VII	31 15 59 37.0	23.89N	93.16E	33	5.5b,4.8s		
HRVD	VII	31 15 59 39.7±.1	23.80N±.02	93.43E±.01	42±1.6			
BJI	Ms5.0							
NEIC	Mw5.3(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c13; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.92±.76; $M_{\theta\theta}$1.24±1.47; $M_{\phi\phi}$−4.16±1.03; $M_{r\theta}$−3.27±1.36; $M_{r\phi}$−7.60±1.90; $M_{\theta\phi}$0.27±.77. Principal Axes: T 8.88,Plg54°,Azm126°; N 0.35,Plg12°,Azm19°; P −9.24,Plg34°,Azm280°. Best double couple: $M_0$9.1×10^{16}Nm, NP1: ϕ_S330°,δ16°,λ40°. NP2:ϕ_S201°,δ80°,λ103°.							
	(280) Banda Sea							
ISC	**VII**	**31 21 54 19.9**±.76	**6.66S**±.025	**130.92E**±.027	**43**±7.1	**5.9b,5.2s**	**565**	**6-167**
MOS	VII	31 21 54 20.1	6.6S	130.9E	40	6.5b,5.0s		**¶97vii4791**
NEIC	VII	31 21 54 21.5	6.64S	130.92E	59	5.9b,5.3s		
BJI	VII	31 21 54 22.1	6.68S	131.00E	67	6.0b,5.3s		
EIDC	VII	31 21 54 26.3	6.6S	130.9E	85	5.6b,5.1s		
HRVD	VII	31 21 54 27.7±.1	6.54S±.01	131.10E±.01	82±.6			
NEIC	Mw6.0(GS), Me5.9(GS).							
NEIC	Mw 6.0 (HRV).							
NEIC	Radiated energy from the USGS moment tensor solution: 1.8±0.5×10^{13}Nm/8							
NEIC	Moment tensor solution: s20, scale 10^{18}Nm; M_{rr}0.71; $M_{\theta\theta}$−1.06; $M_{\phi\phi}$0.34; $M_{r\theta}$−0.12; $M_{r\phi}$0.28; $M_{\theta\phi}$0.41. Depth 69km; Principal axes: T 0.87,Plg59°,Azm276°; N 0.32,Plg30°, Azm109°; P −1.19,Plg6°,Azm16°. Best double couple: $M_0$1.0×10^{18}Nm; NP1:ϕ_S77°,δ47°, λ47°. NP2:ϕ_S311°,δ57°,λ126°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s60,c128; Mantle waves: s36,c53; Half duration: 2s5. Moment tensor: Scale 10^{18}Nm; M_{rr}0.83±.01; $M_{\theta\theta}$−1.04±.01; $M_{\phi\phi}$0.21±.01; $M_{r\theta}$−0.23±.01; $M_{r\phi}$0.32±.01; $M_{\theta\phi}$0.54±.01. Principal Axes: T 0.96,Plg67°,Azm270°; N 0.33,Plg21°,Azm115°; P −1.29,Plg9°,Azm22°. Best double							

couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S88°,δ40°,λ57°. NP2:ϕ_S309°,δ57°,λ115°.

(410) South Atlantic Ridge

ISC	**VIII 04 09 04 59.4**±.43	**42.78S**±.084	**16.17W**±.096	**10**	**4.7b,5.2s**	**50 28-152**
BJI	VIII 04 09 04 58.9	42.80S	16.10W	10	5.8s	**¶97viii0482**
NEIC	VIII 04 09 04 58.9	42.79S	16.12W	10	4.9b,5.1s	
EIDC	VIII 04 09 04 59.5	42.7S	16.2W	0	4.4b	
HRVD	VIII 04 09 05 06.4±.3	42.98S±.05	16.02W±.07	15		

NEIC Mw5.6(HRV), Less reliable solution.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c47; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.03±.08; $M_{\theta\theta}$0.52±.10; $M_{\phi\phi}$1.52±.08; $M_{r\theta}$0.62±.26; $M_{r\phi}$−1.38±.40; $M_{\theta\phi}$−0.34±.10. Principal Axes: T 2.16,Plg20°,Azm71°; N 0.42, Plg2°,Azm340°; P −2.58,Plg70°,Azm243°. Best double couple: $M_0$2.4×10^{17}Nm, NP1: ϕ_S165°,δ25°,λ−84°. NP2:ϕ_S339°,δ65°,λ−93°.

(173) Tonga

ISC	**VIII 04 18 54 01.2**±.20	**15.30S**±.055	**175.16W**±.039	**55**±3.6*	**5.3b,6.0s**	**431 4-167**
EIDC	VIII 04 18 53 55.3	15.2S	175.2W	0	4.9b,5.8s	**¶97viii0530**
NEIC	VIII 04 18 53 58.9	15.16S	175.27W	33	5.5b,6.0s	
MOS	VIII 04 18 53 59.1	15.1S	175.3W	33	5.8b,6.1s	
BJI	VIII 04 18 53 59.6	15.11S	175.04W	39	5.2b,6.2s	
HRVD	VIII 04 18 54 02.9±.1	15.03S±.01	175.10W±.01	15		

NEIC Mw6.1(HRV), Mw6.0(GS).

NEIC Moment tensor solution: s32, scale 10^{17}Nm; M_{rr}−1.10; $M_{\theta\theta}$6.60; $M_{\phi\phi}$−5.50; $M_{r\theta}$1.10; $M_{r\phi}$3.00; $M_{\theta\phi}$9.60. Depth 14km; Principal axes: T 12.4,Plg10°,Azm330°; N −1.1,Plg74°, Azm201°; P −11.3,Plg12°,Azm62°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S106°,δ74°, λ−1°. NP2:ϕ_S196°,δ89°,λ−164°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c124; Mantle waves: s49,c88; Half duration: 2s6. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.08±.01; $M_{\theta\theta}$0.67±.01; $M_{\phi\phi}$−0.59±.01; $M_{r\theta}$−0.02±.04; $M_{r\phi}$−0.34±.04; $M_{\theta\phi}$1.29±.01. Principal Axes: T 1.50,Plg7°,Azm147°; N −0.04,Plg76°,Azm26°; P −1.46,Plg12°,Azm239°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S283°,δ77°,λ−3°. NP2:ϕ_S13°,δ87°,λ−167°.

(173) Tonga

ISC	**VIII 04 19 21 31.7**±.27	**15.37S**±.084	**175.31W**±.065	**33**	**4.8b,5.7s**	**172 4-163**
EIDC	VIII 04 19 21 28.3	15.2S	175.4W	0	4.6b,5.7s	**¶97viii0535**
BJI	VIII 04 19 21 31.5	15.29S	175.48W	26	5.1b,5.7s	
NEIC	VIII 04 19 21 31.8	15.21S	175.43W	33	4.9b	
HRVD	VIII 04 19 21 35.1±.5	15.26S±.05	175.05W±.04	15		

NEIC Mw6.0(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c48; Half duration: 2s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.05±.29; $M_{\theta\theta}$5.78±.38; $M_{\phi\phi}$−3.72±.45; $M_{r\theta}$1.80±1.19; $M_{r\phi}$−4.11±1.09; $M_{\theta\phi}$8.44±.29. Principal Axes: T 10.7,Plg3°,Azm149°; N 0.2, Plg63°,Azm54°; P −10.9,Plg27°,Azm240°. Best double couple: $M_0$1.1×10^{18}Nm, NP1: ϕ_S281°,δ70°,λ−18°. NP2:ϕ_S18°,δ73°,λ−159°.

(403) North Atlantic Ridge

ISC	**VIII 05 02 48 43.7**±.26	**28.40N**±.056	**43.77W**±.024	**10**	**5.1b,5.1s**	**317 27-175**
EIDC	VIII 05 02 48 43.0	28.4N	43.7W	0	4.4b,5.0s	**¶97viii0603**
NEIC	VIII 05 02 48 43.4	28.40N	43.77W	10	5.2b,5.2s	
BJI	VIII 05 02 48 44.9	29.07N	43.84W	5	5.4b,5.8s	
MOS	VIII 05 02 48 45.1	28.7N	43.7W	10	5.5b,5.0s	
HRVD	VIII 05 02 48 50.1±.2	28.57N±.03	43.41W±.03	15		

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c71; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.77±.03; $M_{\theta\theta}$0.02±.05; $M_{\phi\phi}$1.75±.04; $M_{r\theta}$0.33±.11; $M_{r\phi}$0.54±.17; $M_{\theta\phi}$0.41±.03. Principal Axes: T 1.94,Plg9°,Azm283°; N −0.05, Plg6°,Azm14°; P −1.89,Plg79°,Azm138°. Best double couple: $M_0$1.9×10^{17}Nm, NP1:ϕ_S6°, δ36°,λ−100°. NP2:ϕ_S199°,δ55°,λ−82°.

(193) Solomon Islands

ISC	**VIII 06 11 08 05**±1.2	**7.09S**±.035	**155.33E**±.042	**49**±11	**5.1b,5.2s**	**243 4-160**
NEIC	VIII 06 11 08 03.0	7.04S	155.31E	33	5.3b,5.4s	**¶97viii0788**
BJI	VIII 06 11 08 03.1	6.86S	155.40E	29	5.1b,5.1s	
MOS	VIII 06 11 08 03.9	7.1S	155.3E	33	5.6b,5.1s	
EIDC	VIII 06 11 08 04.3	7.0S	155.3E	27	4.8b,5.1s	
HRVD	VIII 06 11 08 06.7±.2	7.43S±.02	155.30E±.03	32±2.9		

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c68; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.06±.04; $M_{\theta\theta}$0.55±.05; $M_{\phi\phi}$−0.61±.06; $M_{r\theta}$1.39±.14; $M_{r\phi}$−1.17±.13; $M_{\theta\phi}$1.44±.04. Principal Axes: T 1.81,Plg29°,Azm343°; N 0.90, Plg43°,Azm105°; P −2.71,Plg33°,Azm232°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S19°,δ43°,λ−177°. NP2:ϕ_S286°,δ88°,λ−47°.

(181) Fiji region

ISC	**VIII 08 22 27 20.1**±.15	**15.61S**±.033	**179.08W**±.035	**10**	**5.6b,6.5s**	**548 7-171**
BJI	VIII 08 22 27 16.7	15.83S	178.72W	5	5.9b,6.5s	**¶97viii1173**
EIDC	VIII 08 22 27 19.1	15.6S	178.9W	0	5.0b,4.8L	
NEIC	VIII 08 22 27 19.8	15.48S	179.14W	10	5.7b,6.6s	
MOS	VIII 08 22 27 24.6	15.4S	179.3W	33	6.1b,6.4s	

NEIC Mw6.6(HRV), Ms6.6(BRK).

NEIC Mw 6.5 (GS).

NEIC Moment tensor solution: s43, scale 10^{18}Nm; M_{rr}−0.26; $M_{\theta\theta}$−3.62; $M_{\phi\phi}$3.88; $M_{r\theta}$0.42; $M_{r\phi}$1.66; $M_{\theta\phi}$5.66. Depth 24km; Principal axes: T 7.29,Plg12°,Azm298°; N −0.60,Plg77°, Azm136°; P −6.68,Plg4°,Azm29°. Best double couple: $M_0$7.0×10^{18}Nm; NP1:ϕ_S74°,δ78°,λ6°. NP2:ϕ_S343°,δ84°,λ168°.

(590) Western Australia

ISC	**VIII 10 09 20 31.1**±.17	**16.05S**±.031	**124.42E**±.037	**10**	**5.8b,5.9s**	**509 2-170**
EIDC	VIII 10 09 20 30.6	16.1S	124.4E	0	5.6b,5.8s	**¶97viii1378**
BJI	VIII 10 09 20 30.8	16.10S	124.52E	15	5.7b,5.9s	
NEIC	VIII 10 09 20 30.9	16.01S	124.33E	10	5.9b,6.0s	
AUST	VIII 10 09 20 31.0	15.92S	124.27E	10	6.0L	
MOS	VIII 10 09 20 31.9	15.9S	124.5E	10	6.2b,5.7s	
HRVD	VIII 10 09 20 38.0±.1	15.98S±.01	124.48E±.01	15		

NEIC Me6.6(GS), Mw6.3(GS).

NEIC Radiated energy from the P−wave first−motion solution: 2.1±0.6×10^{14}Nm/8

NEIC Mw 6.2 (HRV). Ms 6.0 (BRK). Felt in many parts of northwestern Australia.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S205°,δ75°,λ165°. NP2:ϕ_S299°,δ76°,λ16°. Principal axes: T Plg21°,Azm162°; P Plg0°,Azm72°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s19, scale 10^{18}Nm; M_{rr}−0.01; $M_{\theta\theta}$1.95; $M_{\phi\phi}$−1.94; $M_{r\theta}$−0.57; $M_{r\phi}$−0.64; $M_{\theta\phi}$1.71. Depth 12km; Principal axes: T 2.81,Plg15°,Azm158°; N −0.15,Plg72°, Azm10°; P −2.65,Plg9°,Azm251°. Best double couple: $M_0$2.7×10^{18}Nm; NP1:ϕ_S295°,δ73°, λ4°. NP2:ϕ_S204°,δ86°,λ163°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c121; Mantle waves: s49,c93; Half duration: 3s0. Moment tensor: Scale 10^{18}Nm; M_{rr}0.33±.02; $M_{\theta\theta}$1.39±.01; $M_{\phi\phi}$−1.72±.02; $M_{r\theta}$−1.21±.06; $M_{r\phi}$−0.91±.06; $M_{\theta\phi}$1.38±.01. Principal Axes: T 2.79,Plg31°,Azm156°; N −0.46,Plg57°,Azm0°; P −2.33,Plg11°,Azm253°. Best double couple: $M_0$2.6×10^{18}Nm, NP1:ϕ_S299°,δ60°,λ15°. NP2:ϕ_S201°,δ77°,λ149°.

(246) South-western Ryūkyū Islands

ISC	**VIII 13 04 45 03.2**±.32	**25.13N**±.018	**125.87E**±.019	**40**±2.9	**6.0b,5.7s**	**858 1-177**
BJI	VIII 13 04 45 03.9	25.09N	125.98E	60	5.5L,5.9b	**¶97viii1852**
JMA	VIII 13 04 45 04.0±.2	25.19N±.04	125.82E±.03	94±4	6.2	
NEIC	VIII 13 04 45 04.8	25.03N	125.77E	55	6.0b,5.6s	
MOS	VIII 13 04 45 05.4	25.3N	125.7E	54	6.7b,5.7s	
HRVD	VIII 13 04 45 07.0±.2	24.90N±.02	125.88E±.02	57		
EIDC	VIII 13 04 45 07.4	25.1N	125.9E	66	5.5b	
BJI	Ms5.9					
JMA	Felt I=IV J1					

NEIC Mw6.2(GS), Me5.7(GS). Felt I=VI MM.

NEIC Mw 6.2 (HRV). Felt I=IV J on Miyako-jima.

NEIC Radiated energy from the P−wave first−motion solution: 8.3±1.3×10^{12}Nm/11

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S350°,δ65°,λ110°. NP2:ϕ_S129°,δ32°,λ54°. Principal axes: T Plg64°,Azm294°; P Plg18°,Azm65°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s31, scale 10^{18}Nm; M_{rr}1.52; $M_{\theta\theta}$−0.67; $M_{\phi\phi}$−0.85; $M_{r\theta}$−0.17; $M_{r\phi}$1.12; $M_{\theta\phi}$0.83. Depth 54km; Principal axes: T 1.98,Plg67°,Azm279°; N −0.10,Plg15°, Azm148°; P −1.88,Plg16°,Azm54°. Best double couple: $M_0$1.9×10^{18}Nm; NP1:ϕ_S122°,δ32°, λ60°. NP2:ϕ_S336°,δ63°,λ107°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c44; Mantle waves: s34,c43; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}1.49±.02; $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$−1.57±.03; $M_{r\theta}$0.07±.03; $M_{r\phi}$0.73±.03; $M_{\theta\phi}$0.79±.02. Principal Axes: T 1.69,Plg73°,Azm303°; N 0.32,Plg14°,Azm162°; P −2.01,Plg11°,Azm70°. Best double couple: $M_0$1.9×10^{18}Nm, NP1:ϕ_S143°,δ36°,λ67°. NP2:ϕ_S351°,δ57°,λ106°.

(404) Azores region

ISC	**VIII 13 07 29 17.1**±.21	**38.11N**±.050	**31.41W**±.028	**10**	**4.7b,4.6s**	**190 1-161**
BJI	VIII 13 07 29 16.9	38.10N	31.50W	10	4.9b,5.7s	**¶97viii1870**
NEIC	VIII 13 07 29 16.9	38.12N	31.45W	10	4.8b,4.6s	
ADH	VIII 13 07 29 17.6	37.00N	31.66W		4.4D	
EIDC	VIII 13 07 29 20.0	38.1N	31.4W	19	4.3b,4.6s	
MOS	VIII 13 07 29 20.3	38.9N	31.6W	10	5.0b	

(183) Santa Cruz Islands region

ISC	**VIII 14 14 02 02**±1.5	**10.71S**±.048	**164.72E**±.050	**34**±14	**4.9b,5.1s**	**188 5-151**
NEIC	VIII 14 14 02 02.6	10.73S	164.69E	47	4.9b,5.1s	**¶97viii2073**
BJI	VIII 14 14 02 02.9	10.47S	164.16E	15	5.2b,5.3s	
EIDC	VIII 14 14 02 03.3	10.8S	164.8E	44	4.4b,5.0s	
MOS	VIII 14 14 02 05.3	10.7S	164.5E	57	5.6b	
HRVD	VIII 14 14 02 05.6±.4	10.52S±.04	164.76E±.05	38±3.4		

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c48; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.53±.06; $M_{\theta\theta}$0.63±.05; $M_{\phi\phi}$−0.10±.09; $M_{r\theta}$−1.18±.10; $M_{r\phi}$−1.16±.11; $M_{\theta\phi}$0.31±.07. Principal Axes: T 1.82,Plg35°,Azm146°; N −0.07,Plg11°,Azm49°; P −1.75,Plg53°,Azm303°. Best double couple: $M_0$1.8×10^{17}Nm, NP1: ϕ_S277°,δ15°,λ−40°. NP2:ϕ_S47°,δ81°,λ−101°.

(265) Minahassa Peninsula (Celebes)

ISC	**VIII 14 21 47 40.7**±.84	**0.79S**±.030	**121.82E**±.037	**31**±8.6	**4.8b,4.9s**	**137 3-161**
BJI	VIII 14 21 47 40.7	0.72S	121.93E	32	5.1b,5.0s	**¶97viii2116**
NEIC	VIII 14 21 47 40.7	0.72S	121.85E	33	4.9b	
MOS	VIII 14 21 47 41.2	0.7S	122.0E	33	5.8b,5.0s	
EIDC	VIII 14 21 47 43.1	0.7S	121.9E	40	4.5b,4.8s	
HRVD	VIII 14 21 47 43.4±.2	0.43S±.02	121.75E±.03	28±3.0		

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c48; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.28±.05; $M_{\theta\theta}$2.27±.05; $M_{\phi\phi}$−1.99±.08; $M_{r\theta}$−0.20±.14; $M_{r\phi}$−0.02±.11; $M_{\theta\phi}$−0.49±.05. Principal Axes: T 2.34,Plg4°,Azm186°; N −0.30,Plg86°,Azm23°; P −2.04,Plg1°,Azm277°. Best double couple: $M_0$2.2×10^{17}Nm, NP1: ϕ_S322°,δ86°,λ2°. NP2:ϕ_S231°,δ88°,λ176°.

(694) Northern Easter I. Cordillera

ISC	**VIII 15 07 37 49.2**±.42	**4.40S**±.061	**105.73W**±.079	**10**	**5.1b,5.9s**	**191 24-156**
BJI	VIII 15 07 37 48.4	4.33S	105.58W	27	6.5s	**¶97viii2178**
NEIC	VIII 15 07 37 49.0	4.37S	105.70W	10	5.3b,5.8s	
MOS	VIII 15 07 37 49.7	4.4S	105.9W	10	5.6b,5.8s	
EIDC	VIII 15 07 37 50.2	4.1S	105.3W	0	4.7b	
HRVD	VIII 15 07 37 55.6±.1	4.39S±.01	105.95W±.01	15		

NEIC Mw6.3(GS), Me6.3(GS).

NEIC Mw 6.2 (HRV). Ms 6.1 (BRK).

NEIC Radiated energy from the P−wave first−motion solution: 7.1±1.5×10^{13}Nm/12

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S0°,δ88°,λ170°. NP2:ϕ_S90°,δ80°,λ2°. Principal axes: T Plg8°,Azm315°; P Plg6°,Azm46°. Two events about 3.0 seconds apart. Depth from synthetics of broadband displacement seismograms based on the second and larger event .

NEIC Moment tensor solution: s32, scale 10^{18}Nm; M_{rr}−0.06; $M_{\theta\theta}$0.84; $M_{\phi\phi}$−0.78; $M_{r\theta}$0.06; $M_{r\phi}$0.86; $M_{\theta\phi}$2.74. Depth 26km; Principal axes: T 2.99,Plg11°,Azm322°; N −0.02,Plg73°, Azm193°; P −2.97,Plg13°,Azm54°. Best double couple: $M_0$3.0×10^{18}Nm; NP1:ϕ_S98°,δ73°, λ−2°. NP2:ϕ_S188°,δ89°,λ−163°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c118; Mantle waves: s49,c89; Half duration: 3s0. Moment tensor: Scale 10^{18}Nm; M_{rr}0.12±.02; $M_{\theta\theta}$0.77±.02; $M_{\phi\phi}$−0.88±.02; $M_{r\theta}$0.25±.06; $M_{r\phi}$0.56±.07; $M_{\theta\phi}$2.15±.01. Principal Axes: T 2.37,Plg13°,Azm325°; N 0.03,Plg75°,Azm174°; P −2.40,Plg7°,Azm56°. Best double couple: $M_0$2.4×10^{18}Nm, NP1:ϕ_S101°,δ75°,λ4°. NP2:ϕ_S10°,δ86°,λ165°.

(109) Near coast of Northern Peru

ISC	**VIII 15 22 53 31**±2.3	**5.85S**±.045	**81.02W**±.056	**32**±16	**4.7b,5.1s**	**188 7-167**
EIDC	VIII 15 22 53 27.3	5.8S	81.1W	0	4.6b,4.5L	**¶97viii2285**
NEIC	VIII 15 22 53 31.2	5.90S	81.03W	33	4.8b,5.1s	
BJI	VIII 15 22 53 33.0	5.88S	80.92W	39	5.9s	
HRVD	VIII 15 22 53 33.6±.2	6.22S±.02	81.36W±.02	20		

NEIC Mw5.7(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c82; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}3.11±.06; $M_{\theta\theta}$−0.30±.07; $M_{\phi\phi}$−2.81±.09; $M_{r\theta}$0.50±.17; $M_{r\phi}$−2.84±.16; $M_{\theta\phi}$0.95±.06. Principal Axes: T 4.25,Plg68°,Azm86°; N −0.01, Plg4°,Azm345°; P −4.24,Plg21°,Azm254°. Best double couple: $M_0$4.2×10^{17}Nm, NP1: ϕ_S336°,δ24°,λ80°. NP2:ϕ_S167°,δ66°,λ95°.

(186) Vanuatu (New Hebrides)

ISC	**VIII 17 20 11 11.2**±.18	**13.56S**±.037	**167.42E**±.038	**26**	**5.2b,6.0s**	**348 4-170**
EIDC	VIII 17 20 11 07.9	13.6S	167.6E	0	4.8b,5.9s	**¶97viii2581**
NEIC	VIII 17 20 11 10.7	13.59S	167.39E	26	5.4b,6.1s	
BJI	VIII 17 20 11 12.1	13.46S	167.53E	31	5.4b,6.0s	
MOS	VIII 17 20 11 12.6	13.4S	167.4E	33	5.8b,5.9s	
HRVD	VIII 17 20 11 13.8±.1	13.56S±.01	167.61E±.01	15		

NEIC Ms6.3(BRK), Mw6.0(GS).

NEIC Mw 6.0 (HRV).

NEIC Moment tensor solution: s22, scale 10^{18}Nm; M_{rr}0.05; $M_{\theta\theta}$0.11; $M_{\phi\phi}$−0.16; $M_{r\theta}$−0.04; $M_{r\phi}$0.22; $M_{\theta\phi}$1.02. Depth 22km; Principal axes: T 1.01,Plg7°,Azm318°; N 0.07,Plg78°, Azm194°; P −1.08,Plg10°,Azm49°. Best double couple: $M_0$1.0×10^{18}Nm; NP1:ϕ_S94°,δ78°, λ−2°. NP2:ϕ_S184°,δ88°,λ−168°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s50,c112; Mantle waves: s45,c69; Half duration: 2s5. Moment tensor: Scale 10^{18}Nm; M_{rr}0.07±.01; $M_{\theta\theta}$0.08±.01; $M_{\phi\phi}$−0.15±.01; $M_{r\theta}$−0.24±.03; $M_{r\phi}$0.45±.03; $M_{\theta\phi}$1.04±.01. Principal Axes: T 1.03,Plg8°,Azm316°; N 0.24,Plg68°,Azm206°; P −1.27,Plg20°,Azm49°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S91°,δ70°,λ−9°. NP2:ϕ_S184°,δ81°,λ−160°.

(186) Vanuatu (New Hebrides)

ISC	**VIII 18 10 56 38.8**±.28	**13.65S**±.055	**167.34E**±.057	**33**	**4.7b,5.0s**	**183 4-170**
EIDC	VIII 18 10 56 35.2	13.5S	167.3E	0	4.5b,4.9s	**¶97viii2662**
NEIC	VIII 18 10 56 38.5	13.64S	167.31E	33	5.0b,5.1s	
HRVD	VIII 18 10 56 39.7±.9	13.55S±.08	167.52E±.08	25±5.5		
BJI	VIII 18 10 56 42.4	13.50S	167.33E	50	5.0b,5.3s	
MOS	VIII 18 10 56 48.7	12.3S	165.7E	33	5.5b,5.0s	

NEIC Mw5.4(HRV).

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c44; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.65±.53; $M_{\theta\theta}$7.38±.74; $M_{\phi\phi}$−4.73±.99; $M_{r\theta}$−9.95±2.30; $M_{r\phi}$−3.30±1.75; $M_{\theta\phi}$7.14±.59. Principal Axes: T 16.4,Plg29°,Azm157°; N −7.2,Plg35°,Azm269°; P −9.3,Plg42°,Azm37°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S195°,δ36°,λ−167°. NP2:ϕ_S94°,δ82°,λ−55°.

(135) Near coast of Central Chile

ISC	**VIII 18 12 24 26.6**±.21	**29.90S**±.032	**71.96W**±.053	**33**	**4.9b,5.1s**	**182**	**3-168**
EIDC	VIII 18 12 24 22.4	29.8S	72.0W	0	4.7b,5.3s		¶97viii2678
NEIC	VIII 18 12 24 26.2	29.93S	72.01W	33	5.0b,5.0s		
MOS	VIII 18 12 24 26.8	29.9S	71.6W	33	5.2b,4.9s		
BJI	VIII 18 12 24 27.7	29.88S	71.85W	41	6.0s		
HRVD	VIII 18 12 24 30.8±.2	30.08S±.02	72.42W±.02	15			

NEIC Mw5.7(HRV)
NEIC Felt I=IV MM at La Higuera and La Serena.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c84; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}3.15±.06; $M_{\theta\theta}$−0.18±.09; $M_{\phi\phi}$−2.96±.08; $M_{r\theta}$0.24±.19; $M_{r\phi}$−2.77±.21; $M_{\theta\phi}$−0.03±.06. Principal Axes: T 4.23,Plg69°,Azm82°; N −0.19, Plg3°,Azm178°; P −4.03,Plg21°,Azm269°. Best double couple: $M_0$4.1×10^{17}Nm, NP1:ϕ_S4°, δ24°,λ96°. NP2:ϕ_S177°,δ66°,λ87°.

(706) Northern Sumatera

ISC	**VIII 20 07 15 14**±1.6	**4.31N**±.030	**96.51E**±.029	**25**±11	**5.7b,5.9s**	**589**	**2-172**
NEIC	VIII 20 07 15 15.9	4.36N	96.49E	33	5.9b,6.0s		¶97viii2926
KLM	VIII 20 07 15 16	4.3N	96.4E	33	5.6L		
BJI	VIII 20 07 15 16.0	4.38N	96.47E	30	5.5b,6.3s		
EIDC	VIII 20 07 15 16.0	4.2N	96.3E	21	5.2b,5.0L		
MOS	VIII 20 07 15 17.1	4.5N	96.6E	33	5.9b,5.8s		
HRVD	VIII 20 07 15 19.9±.1	4.50N±.01	96.66E±.01	15			

NEIC Mw6.0(GS), Me5.8(GS). Damage.
NEIC Radiated energy from the P−wave first−motion solution: 1.1±0.5×10^{13}Nm/6
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S35°,δ30°,λ60°. NP2:ϕ_S249°,δ64°,λ106°. Principal axes: T Plg67°,Azm188°; P Plg18°,Azm327°. Depth from synthetics of broadband displacement seismograms.
NEIC Mw 6.0 (HRV). Several hundred houses destroyed in Aceh. Felt at Banda Aceh, Medan and other parts of northern Sumatera. Felt at Alor Setar, Petaling Jaya, Pinang and Shah Alam, Malaysia. Also felt at Ban Hat Yai and Songkhla, Thailand.
NEIC Moment tensor solution: s18, scale 10^{17}Nm; M_{rr}0.10; $M_{\theta\theta}$−8.90; $M_{\phi\phi}$8.80; $M_{r\theta}$−0.50; $M_{r\phi}$0.90; $M_{\theta\phi}$−7.60. Depth 36km; Principal axes: T 11.7,Plg5°,Azm250°; N 0.0,Plg85°, Azm77°; P −11.8,Plg1°,Azm340°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S25°,δ86°,λ3°. NP2:ϕ_S294°,δ87°,λ176°.
KLM Mb5.9
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s51,c105; Mantle waves: s43,c69; Half duration: 2s4. Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.09; $M_{\theta\theta}$−8.60±.09; $M_{\phi\phi}$8.25±.12; $M_{r\theta}$−3.06±.38; $M_{r\phi}$0.46±.37; $M_{\theta\phi}$−6.57±.08. Principal Axes: T 10.7,Plg8°,Azm250°; N 0.8,Plg74°,Azm129°; P −11.5,Plg13°,Azm342°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S25°,δ75°,λ−4°. NP2:ϕ_S116°,δ87°,λ−165°.

(429) Mid-Indian Rise

ISC	**VIII 20 13 51 16.9**±.21	**41.79S**±.045	**80.18E**±.049	**10**	**5.4b,6.3s**	**267**	**26-177**
EIDC	VIII 20 13 51 16.4	41.6S	80.2E	0	5.1b		¶97viii2969
NEIC	VIII 20 13 51 16.6	41.72S	80.13E	10	5.6b,6.4s		
MOS	VIII 20 13 51 16.7	41.9S	80.1E	10	6.0b,6.3s		
BJI	VIII 20 13 51 17.6	41.54S	79.80E	24	5.7b,6.5s		
HRVD	VIII 20 13 51 25.4±.1	41.43S±.01	79.99E±.01	15			

NEIC Me6.9(GS), Mw6.5(GS).
NEIC Mw 6.5 (HRV).
NEIC Radiated energy from the P−wave first−motion solution: 4.5±1.4×10^{14}Nm/6
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S140°,δ88°,λ−2°. NP2:ϕ_S230°,δ88°,λ−178°. Principal axes: T Plg0°,Azm5°; P Plg3°,Azm95°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s17, scale 10^{18}Nm; M_{rr}0.33; $M_{\theta\theta}$5.54; $M_{\phi\phi}$−5.87; $M_{r\theta}$−0.77; $M_{r\phi}$−0.77; $M_{\theta\phi}$−0.38. Depth 8km; Principal axes: T 5.65,Plg8°,Azm181°; N 0.33,Plg79°, Azm44°; P −5.99,Plg7°,Azm272°. Best double couple: $M_0$5.8×10^{18}Nm; NP1:ϕ_S317°,δ79°, λ1°. NP2:ϕ_S227°,δ89°,λ169°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c135; Mantle waves: s58,c135; Half duration: 4s0. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.14±.03; $M_{\theta\theta}$5.72±.03; $M_{\phi\phi}$−5.58±.03; $M_{r\theta}$0.31±.11; $M_{r\phi}$0.34±.11; $M_{\theta\phi}$−0.86±.03. Principal Axes: T 5.80,Plg3°,Azm4°; N −0.13,Plg85°,Azm239°; P −5.67,Plg4°,Azm94°. Best double couple: $M_0$5.7×10^{18}Nm, NP1:ϕ_S139°,δ85°,λ−1°. NP2:ϕ_S229°,δ89°,λ−175°.

(710) Pakistan

ISC	**VIII 24 13 15 22**±1.5	**30.12N**±.040	**67.96E**±.025	**33**±11	**5.2b,5.3s**	**335**	**1-145**
EIDC	VIII 24 13 15 19.1	30.0N	68.0E	0	5.1b,5.5s		¶97viii3539
MOS	VIII 24 13 15 21.6	30.0N	68.1E	33	5.6b,5.5s		
NEIC	VIII 24 13 15 21.8	30.08N	68.00E	33	5.3b,5.4s		
BJI	VIII 24 13 15 22.1	30.35N	68.05E	24	5.4b,5.6s		
HRVD	VIII 24 13 15 27.4±.2	29.71N±.02	67.99E±.03	23			

NEIC Mw5.6(HRV). Felt.
NEIC Felt at Harnai, Quetta, Pishin, Sibi and Ziarat.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c70; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.46±.05; $M_{\theta\theta}$−2.92±.08; $M_{\phi\phi}$0.46±.08; $M_{r\theta}$1.90±.13; $M_{r\phi}$−0.33±.11; $M_{\theta\phi}$−0.12±.05. Principal Axes: T 3.11,Plg71°,Azm24°; N 0.41, Plg7°,Azm272°; P −3.52,Plg18°,Azm180°. Best double couple: $M_0$3.3×10^{17}Nm, NP1: ϕ_S258°,δ28°,λ74°. NP2:ϕ_S96°,δ63°,λ98°.

(274) Southern Sumatera

ISC	**VIII 25 21 24 06**±1.9	**1.97S**±.039	**99.98E**±.052	**19**±14	**5.1b,5.1s**	**211**	**4-158**
EIDC	VIII 25 21 24 04.0	2.1S	99.8E	0	5.0b		¶97viii3744
DJA	VIII 25 21 24 05.8	2.4S	99.4E	80	5.8L,5.2D		
KLM	VIII 25 21 24 08	1.9S	99.9E	33	4.5L		
NEIC	VIII 25 21 24 08.1	1.97S	99.91E	33	5.1b,4.8s		
MOS	VIII 25 21 24 08.4	1.9S	100.0E	33	5.7b,5.0s		
BJI	VIII 25 21 24 08.4	1.95S	99.90E	35	5.3b,5.3s		
HRVD	VIII 25 21 24 13.0±.3	2.26S±.03	99.90E±.04	32			

KLM Mb5.1
NEIC Mw5.5(HRV).
NEIC Felt at Padang and Padangpanjang.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c50; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.04±.04; $M_{\theta\theta}$−0.95±.04; $M_{\phi\phi}$−0.09±.06; $M_{r\theta}$1.08±.12; $M_{r\phi}$−0.82±.08; $M_{\theta\phi}$0.59±.05. Principal Axes: T 1.69,Plg64°,Azm47°; N 0.19, Plg7°,Azm303°; P −1.87,Plg25°,Azm210°. Best double couple: $M_0$1.8×10^{17}Nm, NP1: ϕ_S286°,δ21°,λ71°. NP2:ϕ_S125°,δ70°,λ97°.

(153) South Sandwich Islands region

ISC	**VIII 26 03 27 42.1**±.32	**58.29S**±.061	**25.2W**±.16	**33**	**5.1b,5.2s**	**79**	**14-159**
EIDC	VIII 26 03 27 38.0	58.4S	25.3W	0	5.1b,5.1s		¶97viii3777
BJI	VIII 26 03 27 41.7	58.30S	25.30W	33	5.5s		
NEIC	VIII 26 03 27 41.7	58.29S	25.33W	33	5.4b,4.7s		
HRVD	VIII 26 03 27 46.9±.2	58.44S±.03	25.05W±.06	37±2.3			

NEIC Mw5.6(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c74; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}0.97±.04; $M_{\theta\theta}$−0.40±.06; $M_{\phi\phi}$−0.57±.06; $M_{r\theta}$−2.19±.14; $M_{r\phi}$0.39±.09; $M_{\theta\phi}$1.33±.06. Principal Axes: T 2.65,Plg50°,Azm165°; N 0.14, Plg26°,Azm291°; P −2.79,Plg28°,Azm36°. Best double couple: $M_0$2.7×10^{17}Nm, NP1: ϕ_S172°,δ29°,λ154°. NP2:ϕ_S285°,δ78°,λ64°.

(409) South Atlantic Ocean

ISC	**VIII 26 08 43 27.5**±.20	**6.99S**±.041	**21.95W**±.040	**10**	**5.3b,4.7s**	**279**	**16-151**
NEIC	VIII 26 08 43 27.2	7.00S	21.90W	10	5.4b,4.7s		¶97viii3819
MOS	VIII 26 08 43 27.5	6.9S	22.0W	10	5.7b,4.8s		
EIDC	VIII 26 08 43 27.6	7.1S	22.0W	0	4.8b		
HRVD	VIII 26 08 43 30.8±.6	7.00S±.10	21.61W±.12	15			

NEIC Mw5.2(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c41; Half duration: 1s3. Moment tensor: Scale 10^{16}Nm; M_{rr}6.01±.48; $M_{\theta\theta}$−6.05±.46; $M_{\phi\phi}$0.03±.61; $M_{r\theta}$2.13±2.46; $M_{r\phi}$−4.07±1.42; $M_{\theta\phi}$1.09±.53. Principal Axes: T 8.22,Plg64°,Azm77°; N −1.28,Plg22°,Azm293°; P −6.94,Plg14°,Azm198°. Best double couple: $M_0$7.6×10^{16}Nm, NP1:ϕ_S260°,δ36°,λ51°. NP2:ϕ_S125°,δ63°,λ115°.

(281) Tanimbar Islands region

ISC	**VIII 27 09 55 45.8**±.21	**7.35S**±.033	**130.57E**±.040	**36**±4.9*	**5.1b**,4.8s	**135**	**9-161**
BJI	VIII 27 09 55 44.5	7.29S	130.65E	28	5.2b,5.1s		¶97viii3970
NEIC	VIII 27 09 55 45.8	7.36S	130.59E	33	5.3b		
MOS	VIII 27 09 55 46.0	7.3S	130.7E	33	5.5b		
DJA	VIII 27 09 55 47.0	7.7S	130.8E	100	6.4L,5.3D		
EIDC	VIII 27 09 55 49.0	7.3S	130.7E	44	4.7b,4.7L		
HRVD	VIII 27 09 55 54.1±1.1	7.27S±.09	130.84E±.09	60±6.1			

ISC DJA magnitude calculations may be overestimated
NEIC Mw5.1(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c31; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.03±.51; $M_{\theta\theta}$−5.07±.56; $M_{\phi\phi}$0.03±.97; $M_{r\theta}$1.46±.91; $M_{r\phi}$1.76±.83; $M_{\theta\phi}$1.46±.50. Principal Axes: T 5.90,Plg69°,Azm298°; N −0.35, Plg20°,Azm101°; P −5.55,Plg6°,Azm193°. Best double couple: $M_0$5.7×10^{16}Nm, NP1: ϕ_S304°,δ43°,λ121°. NP2:ϕ_S85°,δ54°,λ64°.

(402) North Atlantic Ocean

ISC	**VIII 28 11 10 07.6**±.14	**57.04N**±.037	**33.86W**±.030	**10**	**5.2b,5.1s**	**321**	**10-155**
BJI	VIII 28 11 10 07.3	57.10N	33.80W	10	5.2b,5.3s		¶97viii4120
NEIC	VIII 28 11 10 07.3	57.08N	33.85W	10	5.3b,5.2s		
MOS	VIII 28 11 10 07.7	57.0N	33.8W	10	5.5b,5.0s		
EIDC	VIII 28 11 10 10.2	57.0N	33.8W	16	4.6b,4.2L		
HRVD	VIII 28 11 10 11.9±.4	57.17N±.06	33.48W±.07	15			

NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c37; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.11±.03; $M_{\theta\theta}$0.24±.04; $M_{\phi\phi}$0.87±.04; $M_{r\theta}$0.06±.13; $M_{r\phi}$0.29±.20; $M_{\theta\phi}$0.42±.04. Principal Axes: T 1.12,Plg7°,Azm296°; N 0.03, Plg3°,Azm206°; P −1.15,Plg82°,Azm91°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S30°, δ38°,λ−85°. NP2:ϕ_S203°,δ52°,λ−94°.

(186) Vanuatu (New Hebrides)

ISC	**VIII 28 21 42 06**±1.9	**17.32S**±.050	**167.86E**±.059	**15**±14	**4.8b,5.2s**	**219**	**1-157**
EIDC	VIII 28 21 42 06.3	17.4S	168.0E	14	4.5b,5.1s		¶97viii4186
NEIC	VIII 28 21 42 07.6	17.40S	167.91E	33	4.9b,5.3s		
BJI	VIII 28 21 42 09.0	16.71S	167.12E	6	5.0b,5.2s		
MOS	VIII 28 21 42 09.4	17.4S	167.0E	33	5.9b,5.0s		
HRVD	VIII 28 21 42 12.3±.2	17.44S±.02	167.59E±.02	33±1.6			

NEIC Mw5.5(HRV)
NEIC Felt at Port-Vila.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c87; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}1.96±.04; $M_{\theta\theta}$0.01±.06; $M_{\phi\phi}$−1.97±.06; $M_{r\theta}$0.78±.09; $M_{r\phi}$−0.59±.10; $M_{\theta\phi}$0.27±.04. Principal Axes: T 2.29,Plg71°,Azm20°; N −0.15, Plg16°,Azm166°; P −2.14,Plg10°,Azm259°. Best double couple: $M_0$2.2×10^{17}Nm, NP1:ϕ_S8°, δ38°,λ117°. NP2:ϕ_S155°,δ57°,λ71°.

(173) Tonga

ISC	**VIII 29 06 54 00.4**±.20	**15.17S**±.056	**175.56W**±.049	**33**±2.9*	**5.4b,6.3s**	**418**	**4-168**
BJI	VIII 29 06 53 58.4	15.20S	175.16W	22	5.4b,6.3s		¶97viii4245
EIDC	VIII 29 06 53 59.1	14.8S	175.7W	0	5.0b,6.3s		
NEIC	VIII 29 06 54 00.2	15.24S	175.58W	33	5.6b,6.4s		
MOS	VIII 29 06 54 02.4	15.1S	174.8W	33	5.6b,6.5s		
HRVD	VIII 29 06 54 07.4±.1	15.31S±.01	175.38W±.01	15			

NEIC Me6.7(GS), Mw6.5(GS).
NEIC Mw 6.4 (HRV). Ms 6.1 (BRK). Mo=4.1×10^{18}Nm (PPT).
NEIC Radiated energy from the P−wave first−motion solution: 2.5±0.4×10^{14}Nm/15
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S290°,δ85°,λ0°. NP2:ϕ_S20°,δ90°,λ−175°. Principal axes: T Plg4°,Azm155°; P Plg4°,Azm245°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s39, scale 10^{18}Nm; M_{rr}−0.10; $M_{\theta\theta}$3.20; $M_{\phi\phi}$−3.10; $M_{r\theta}$0.22; $M_{r\phi}$0.67; $M_{\theta\phi}$4.43. Depth 25km; Principal axes: T 5.53,Plg5°,Azm332°; N −0.10,Plg83°, Azm199°; P −5.43,Plg5°,Azm63°. Best double couple: $M_0$5.5×10^{18}Nm; NP1:ϕ_S108°,δ83°, λ0°. NP2:ϕ_S198°,δ90°,λ−173°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c135; Mantle waves: s56,c126; Half duration: 4s1. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.04±.03; $M_{\theta\theta}$3.16±.03; $M_{\phi\phi}$−3.12±.03; $M_{r\theta}$0.27±.10; $M_{r\phi}$−1.01±.10; $M_{\theta\phi}$4.11±.03. Principal Axes: T 5.20,Plg2°,Azm153°; N 0.15,Plg79°,Azm52°; P −5.35,Plg11°,Azm244°. Best double couple: $M_0$5.3×10^{18}Nm, NP1:ϕ_S288°,δ81°,λ−6°. NP2:ϕ_S19°,δ84°,λ−171°.

(200) Near north coast of New Guinea

ISC	**VIII 29 08 14 07**±2.4	**3.52S**±.029	**144.37E**±.031	**6**±14	**5.7b,6.7s**	**396**	**1-167**
EIDC	VIII 29 08 14 08.1	3.5S	144.4E	0	5.2b,4.7L		¶97viii4250
NEIC	VIII 29 08 14 09.9	3.56S	144.36E	23	5.8b,6.8s		
BJI	VIII 29 08 14 11.4	3.64S	144.60E	37	6.1b,6.5s		
MOS	VIII 29 08 14 12.2	3.5S	144.5E	33	6.2b,6.4s		
HRVD	VIII 29 08 14 16.6±.1	3.34S±.01	144.51E±.01	15			

NEIC Me6.9(GS), Mw6.6(HRV).
NEIC Mw 6.5 (GS). Ms 6.9 (BRK).
NEIC Radiated energy from the P−wave first−motion solution: 5.5±1.8×10^{14}Nm/13
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S274°,δ86°,λ0°. NP2:ϕ_S184°,δ90°,λ176°. Principal axes: T Plg3°,Azm139°; P Plg3°,Azm229°.
NEIC Moment tensor solution: s17, scale 10^{18}Nm; M_{rr}0.67; $M_{\theta\theta}$0.93; $M_{\phi\phi}$−1.60; $M_{r\theta}$−0.31; $M_{r\phi}$1.08; $M_{\theta\phi}$6.39. Depth 36km; Principal axes: T 6.22,Plg5°,Azm320°; N 0.77,Plg81°, Azm200°; P −6.99,Plg8°,Azm51°. Best double couple: $M_0$6.6×10^{18}Nm; NP1:ϕ_S95°,δ81°, λ−2°. NP2:ϕ_S186°,δ88°,λ−171°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c136; Mantle waves: s58,c129; Half duration: 4s5. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.53±.04; $M_{\theta\theta}$0.52±.04; $M_{\phi\phi}$0.01±.05; $M_{r\theta}$−1.01±.16; $M_{r\phi}$0.17±.18; $M_{\theta\phi}$7.43±.03. Principal Axes: T 7.74,Plg4°,Azm136°; N −0.47,Plg82°,Azm257°; P −7.27,Plg7°,Azm46°. Best double couple: $M_0$7.5×10^{18}Nm, NP1:ϕ_S181°,δ82°,λ−178°. NP2:ϕ_S91°,δ88°,λ−8°.

(216) Marianas

ISC	**VIII 30 03 28 35**±2.4	**14.65N**±.029	**144.82E**±.042	**33**±17	**4.9b,5.2s**	**227**	**1-168**
BJI	VIII 30 03 28 34.1	14.63N	144.63E	24	5.2b,5.2s		¶97viii4418
NEIC	VIII 30 03 28 34.7	14.70N	144.83E	33	5.0b,5.2s		
MOS	VIII 30 03 28 35.8	14.5N	144.3E	33	5.5b,5.2s		
EIDC	VIII 30 03 28 36.3	14.7N	145.0E	30	4.6b,3.7L		
HRVD	VIII 30 03 28 37.3±.1	14.58N±.01	144.57E±.02	15			

NEIC Mw5.8(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s50,c103; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}−4.85±.06; $M_{\theta\theta}$4.43±.08; $M_{\phi\phi}$0.42±.10; $M_{r\theta}$1.24±.28; $M_{r\phi}$−1.43±.20; $M_{\theta\phi}$−2.06±.06. Principal Axes: T 5.58,Plg9°,Azm24°; N −0.31, Plg9°,Azm116°; P −5.27,Plg77°,Azm250°. Best double couple: $M_0$5.4×10^{17}Nm, NP1: ϕ_S103°,δ37°,λ−106°. NP2:ϕ_S302°,δ55°,λ−79°.

(684) Easter Island Cordillera

ISC	**VIII**	**31 07 25 09.1**±.45	**34.91S**±.084	**111.4W**±.17	**10**	**4.4b,4.6s**	**41**	**33-155**
NEIC	VIII	31 07 25 08.9	34.91S	111.37W	10	4.4b,4.0s		¶97viii4607
EIDC	VIII	31 07 25 09.0	35.0S	111.5W	0	4.3b,4.4s		
BJI	VIII	31 07 25 12.9	34.90S	111.40W	10	5.7s		

NEIC Less reliable solution.

(216) Marianas

ISC	**VIII**	**31 13 01 22.6**±.93	**14.63N**±.030	**144.79E**±.045	**35**±8.7	**4.9b,4.8s**	**179**	**1-168**
NEIC	VIII	31 13 01 22.1	14.67N	144.66E	33	5.0b,4.9s		¶97viii4653
MOS	VIII	31 13 01 22.5	14.6N	144.7E	33	5.5b,4.7s		
BJI	VIII	31 13 01 22.8	14.69N	144.82E	37	5.3b,4.7s		
EIDC	VIII	31 13 01 25.9	14.7N	144.8E	50	4.4b		

(691) South Pacific Cordillera

ISC	**IX**	**03 06 22 43.8**±.26	**55.27S**±.064	**128.97W**±.098	**10**	**4.9b,5.9s**	**225**	**32-176**
BJI	IX	03 06 22 42.3	55.03S	128.88W	7	6.1s		¶97ix0389
NEIC	IX	03 06 22 44.2	55.19S	128.99W	10	5.1b,6.0s		
MOS	IX	03 06 22 44.7	55.3S	128.8W	10	5.4b,5.8s		
EIDC	IX	03 06 22 48.4	55.2S	129.0W	24	4.5b		
HRVD	IX	03 06 22 50.9±.1	55.26S±.01	128.98W±.02	15			

NEIC Mw6.1(HRV), Ms6.1(BRK), Less reliable solution.
NEIC Mw 6.0 (GS). Mo=4.4×10^{18}Nm (PPT).
NEIC Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}−0.20; $M_{\theta\theta}$9.30; $M_{\phi\phi}$−9.10; $M_{r\theta}$3.10; $M_{r\phi}$−2.10; $M_{\theta\phi}$6.30. Depth 12km; Principal axes: T 11.7,Plg12°,Azm344°; N 0.0,Plg71°, Azm112°; P −11.8,Plg14°,Azm251°. Best double couple: M$_0$1.2×10^{18}Nm; NP1:ϕ_S28°,δ72°, λ−178°. NP2:ϕ_S298°,δ88°,λ−19°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c103; Mantle waves: s53,c94; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.10±.01; $M_{\theta\theta}$1.00±.01; $M_{\phi\phi}$−0.89±.01; $M_{r\theta}$0.43±.05; $M_{r\phi}$−0.09±.04; $M_{\theta\phi}$1.34±.01. Principal Axes: T 1.76,Plg11°,Azm333°; N −0.12,Plg75°,Azm108°; P −1.64,Plg10°,Azm241°. Best double couple: M$_0$1.7×10^{18}Nm, NP1:ϕ_S17°,δ75°,λ180°. NP2:ϕ_S107°,δ90°,λ15°.

(153) South Sandwich Islands region

ISC	**IX**	**05 03 23 12**±6.5	**56.23S**±.067	**27.7W**±.15	**11**±39	**5.0b,5.3s**	**92**	**17-162**
NEIC	IX	05 03 23 14.4	56.26S	27.82W	33	5.2b,5.0s		¶97ix0679
BJI	IX	05 03 23 16.4	56.30S	27.80W	33	5.8s		
HRVD	IX	05 03 23 17.4±.2	56.59S±.02	27.60W±.05	15			
EIDC	IX	05 03 23 18.5	56.2S	27.9W	52	4.5b,5.2s		

NEIC Mw5.4(HRV), Less reliable solution.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c75; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.70±.03; $M_{\theta\theta}$−0.74±.04; $M_{\phi\phi}$−0.96±.04; $M_{r\theta}$−0.77±.12; $M_{r\phi}$0.35±.15; $M_{\theta\phi}$0.13±.04. Principal Axes: T 1.95,Plg73°,Azm201°; N −0.76, Plg8°,Azm317°; P −1.19,Plg15°,Azm49°. Best double couple: M$_0$1.6×10^{17}Nm, NP1:ϕ_S150°, δ31°,λ105°. NP2:ϕ_S313°,δ60°,λ81°.

(221) Kuril Islands

ISC	**IX**	**05 10 31 36.6**±.12	**44.31N**±.023	**149.94E**±.027	**56**±.5*	**5.4b,5.1s**	**656**	**2-154**
BJI	IX	05 10 31 33.8	44.60N	149.95E	34	5.3b,5.1s		¶97ix0734
NEIC	IX	05 10 31 34.9	44.62N	150.01E	33	5.6b,5.0s		
SKHL	IX	05 10 31 35.0	44.5N±.14	150.1E±.10	48±4			
JMA	IX	05 10 31 35.3±.6	44.20N±.09	150.31E±.06	35	5.1		
HRVD	IX	05 10 31 36.4±.3	44.61N±.03	150.10E±.06	36±2.9			
MOS	IX	05 10 31 36.9	44.8N	150.0E	41	6.2b,5.3s		
EIDC	IX	05 10 31 39.5	44.7N	149.8E	60	4.9b,5.3s		

NEIC Mw5.5(GS), Mw5.4(HRV).
NEIC Moment tensor solution: s22, scale 10^{17}Nm; M_{rr}−0.44; $M_{\theta\theta}$0.37; $M_{\phi\phi}$0.08; $M_{r\theta}$1.71; $M_{r\phi}$0.53; $M_{\theta\phi}$0.14. Depth 26km; Principal axes: T 1.83,Plg38°,Azm342°; N 0.02,Plg1°,Azm72°; P −1.85,Plg52°,Azm164°. Best double couple: M$_0$1.8×10^{17}Nm; NP1:ϕ_S65°,δ7°,λ−97°. NP2: ϕ_S253°,δ83°,λ−89°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c52; Mantle waves: s6,c6; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.00±.04; $M_{\theta\theta}$1.02±.05; $M_{\phi\phi}$−0.02±.05; $M_{r\theta}$0.84±.10; $M_{r\phi}$0.62±.09; $M_{\theta\phi}$0.29±.05. Principal Axes: T 1.49,Plg22°,Azm340°; N −0.02,Plg12°,Azm245°; P −1.47,Plg65°,Azm129°. Best double couple: M$_0$1.5×10^{17}Nm, NP1:ϕ_S91°,δ25°,λ−62°. NP2:ϕ_S240°,δ68°,λ−103°.

(710) Pakistan

ISC	**IX**	**07 10 15 26.2**±.90	**30.07N**±.048	**67.80E**±.024	**43**±7.7	**5.4b,5.2s**	**417**	**3-145**
EIDC	IX	07 10 15 24.6	30.0N	67.8E	20	4.9b,5.5$_L$		¶97ix1047
NEIC	IX	07 10 15 24.9	30.04N	67.80E	33	5.5b,5.3s		
MOS	IX	07 10 15 25.2	30.1N	67.9E	33	5.7b,5.1s		
HRVD	IX	07 10 15 28.1±.3	29.50N±.03	67.92E±.04	18			
BJI	IX	07 10 15 29.9	30.35N	68.40E	33	5.4b,5.4s		

NEIC Mw5.4(GS), Me5.3(GS).
NEIC Mw 5.4 (HRV).
NEIC Radiated energy from the P−wave first−motion solution: 1.8±0.5×10^{12}Nm/11
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S165°,δ45°,λ60°. NP2:ϕ_S24°,δ52°,λ117°. Principal axes: T Plg69°,Azm356°; P Plg4°,Azm96°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s19, scale 10^{17}Nm; M_{rr}0.28; $M_{\theta\theta}$−0.32; $M_{\phi\phi}$0.03; $M_{r\theta}$1.40; $M_{r\phi}$−0.14; $M_{\theta\phi}$0.17. Depth 9km; Principal axes: T 1.41,Plg51°,Azm0°; N 0.06,Plg5°, Azm97°; P −1.48,Plg38°,Azm191°. Best double couple: M$_0$1.4×10^{17}Nm; NP1:ϕ_S315°,δ8°, λ128°. NP2:ϕ_S96°,δ84°,λ85°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c57; Mantle waves: s5,c5; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.18±.04; $M_{\theta\theta}$−1.28±.05; $M_{\phi\phi}$0.10±.05; $M_{r\theta}$0.79±.15; $M_{r\phi}$−0.05±.12; $M_{\theta\phi}$0.22±.04. Principal Axes: T 1.42,Plg73°,Azm357°; N 0.13,Plg3°,Azm97°; P −1.54,Plg16°,Azm188°. Best double couple: M$_0$1.5×10^{17}Nm, NP1:ϕ_S283°,δ29°,λ96°. NP2:ϕ_S96°,δ61°,λ87°.

(710) Pakistan

ISC	**IX**	**07 12 58 09**±1.3	**30.1N**±.19	**67.7E**±.14	**33**	**3.8b**	**11**	**6-88**
EIDC	IX	07 12 58 05.2	30.0N	67.7E	0	3.8b,4.4$_L$		¶97ix1067
BJI	IX	07 12 58 08.9	30.20N	67.80E	33	5.5b,4.7s		
NEIC	IX	07 12 58 08.9	30.22N	67.76E	33			

EIDC Multiple, mixed az
NEIC Poor solution.

(173) Tonga

ISC	**IX**	**08 23 49 32.6**±.24	**20.80S**±.064	**174.41W**±.059	**33**	**4.9b,5.0s**	**213**	**7-163**
EIDC	IX	08 23 49 29.2	20.7S	174.5W	0	4.8b,4.9s		¶97ix1298
NEIC	IX	08 23 49 32.5	20.73S	174.50W	33	5.0b,5.0s		
BJI	IX	08 23 49 32.9	19.82S	174.49W	5	5.2b,5.2s		
HRVD	IX	08 23 49 36.4±.3	21.04S±.04	173.67W±.04	15			
MOS	IX	08 23 49 40.4	19.7S	175.6W	33	5.5b		

NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c56; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}8.66±.28; $M_{\theta\theta}$0.14±.50; $M_{\phi\phi}$−8.80±.44; $M_{r\theta}$3.70±.69; $M_{r\phi}$7.57±.76; $M_{\theta\phi}$−3.56±.31. Principal Axes: T 11.9,Plg69°,Azm303°; N 1.3, Plg4°,Azm202°; P −13.3,Plg21°,Azm111°. Best double couple: M$_0$1.3×10^{17}Nm, NP1: ϕ_S193°,δ24°,λ80°. NP2:ϕ_S24°,δ66°,λ95°.

(173) Tonga

ISC	**IX**	**10 12 57 07.0**±.16	**21.40S**±.038	**174.34W**±.040	**10**	**5.6b,6.0s**	**502**	**8-164**
EIDC	IX	10 12 57 06.9	21.4S	174.2W	0	5.3b		¶97ix1525
BJI	IX	10 12 57 07.0	21.30S	174.40W	10	6.1b,5.8s		
NEIC	IX	10 12 57 07.0	21.35S	174.39W	10	5.7b,6.1s		
MOS	IX	10 12 57 08.0	21.2S	174.1W	10	6.0b,5.9s		
HRVD	IX	10 12 57 14.6±.1	21.52S±.01	173.61W±.01	15			

NEIC Me6.2(GS), Mw6.1(GS).
NEIC Mw 6.1 (HRV). Ms 6.1 (BRK). Mo=2.4×10^{18}Nm (PPT).
NEIC Radiated energy from the P−wave first−motion solution: 3.8±0.8×10^{13}Nm/12
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S30°,δ84°,λ135°. NP2:ϕ_S126°,δ45°,λ8°. Principal axes: T Plg35°,Azm338°; P Plg25°,Azm87°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s43, scale 10^{18}Nm; M_{rr}0.17; $M_{\theta\theta}$−0.08; $M_{\phi\phi}$−0.09; $M_{r\theta}$0.68; $M_{r\phi}$1.36; $M_{\theta\phi}$−0.26. Depth 3km; Principal axes: T 1.49,Plg49°,Azm290°; N 0.12,Plg6°, Azm27°; P −1.61,Plg40°,Azm122°. Best double couple: M$_0$1.5×10^{18}Nm; NP1:ϕ_S259°,δ7°, λ143°. NP2:ϕ_S26°,δ86°,λ84°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s50,c115; Mantle waves: s47,c74; Half duration: 2s5. Moment tensor: Scale 10^{17}Nm; M_{rr}9.04±.07; $M_{\theta\theta}$−1.73±.08; $M_{\phi\phi}$−7.31±.09; $M_{r\theta}$4.52±.26; $M_{r\phi}$8.82±.29; $M_{\theta\phi}$−4.16±.07. Principal Axes: T 13.3,Plg67°,Azm296°; N 0.5,Plg0°,Azm28°; P −13.8,Plg23°,Azm118°. Best double couple: M$_0$1.4×10^{18}Nm, NP1:ϕ_S209°,δ22°,λ91°. NP2:ϕ_S27°,δ68°,λ89°.

(413) South-west of Africa

ISC	**IX**	**10 22 29 27.4**±.22	**52.92S**±.041	**19.7E**±.10	**10**	**5.2b,5.4s**	**211**	**18-166**
EIDC	IX	10 22 29 26.2	52.9S	19.7E	0	5.1b		¶97ix1590
BJI	IX	10 22 29 26.7	52.90S	19.70E	10	5.7s		
NEIC	IX	10 22 29 26.7	52.91S	19.72E	10	5.3b,5.3s		
MOS	IX	10 22 29 27.6	52.9S	19.9E	10	5.6b,5.3s		
HRVD	IX	10 22 29 32.1±.2	53.02S±.02	20.35E±.04	15			

NEIC Mw5.6(GS), Mw5.6(HRV).
NEIC Moment tensor solution: s12, scale 10^{17}Nm; M_{rr}−3.40; $M_{\theta\theta}$2.20; $M_{\phi\phi}$1.20; $M_{r\theta}$−0.14; $M_{r\phi}$0.21; $M_{\theta\phi}$−1.06. Depth 3km; Principal axes: T 2.89,Plg2°,Azm212°; N 0.53,Plg1°, Azm303°; P −3.41,Plg87°,Azm67°. Best double couple: M$_0$3.1×10^{17}Nm; NP1:ϕ_S301°,δ43°, λ−92°. NP2:ϕ_S124°,δ47°,λ−88°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c89; Mantle waves: s5,c6; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−3.08±.05; $M_{\theta\theta}$2.48±.06; $M_{\phi\phi}$0.59±.06; $M_{r\theta}$0.20±.20; $M_{r\phi}$0.25±.18; $M_{\theta\phi}$−0.96±.06. Principal Axes: T 2.89,Plg1°,Azm23°; N 0.21,Plg5°,Azm293°; P −3.11,Plg85°,Azm122°. Best double couple: M$_0$3.0×10^{17}Nm, NP1:ϕ_S118°,δ44°,λ−82°. NP2:ϕ_S288°,δ46°,λ−97°.

(691) South Pacific Cordillera

ISC	**IX**	**12 14 09 03.2**±.45	**63.13S**±.093	**164.4W**±.17	**10**	**4.9b,5.6s**	**147**	**18-168**
EIDC	IX	12 14 09 02.7	63.0S	164.5W	0	4.8b,4.6$_L$		¶97ix1824
NEIC	IX	12 14 09 03.0	63.12S	164.32W	10	5.0b,5.6s		
BJI	IX	12 14 09 06.0	63.10S	164.30W	10	5.6s		
HRVD	IX	12 14 09 09.6±.1	63.31S±.02	164.28W±.04	15			

NEIC Mw5.9(GS), Mw5.7(HRV), Less reliable solution.
NEIC Mo=9.8×10^{17}Nm (PPT).
NEIC Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}−0.28; $M_{\theta\theta}$8.20; $M_{\phi\phi}$−7.92; $M_{r\theta}$1.13; $M_{r\phi}$0.40; $M_{\theta\phi}$−2.58. Depth 23km; Principal axes: T 8.73,Plg7°,Azm9°; N −0.36,Plg82°, Azm220°; P −8.36,Plg4°,Azm99°. Best double couple: M$_0$8.5×10^{17}Nm; NP1:ϕ_S144°,δ82°, λ2°. NP2:ϕ_S54°,δ88°,λ172°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c95; Mantle waves: s8,c13; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.07±.05; $M_{\theta\theta}$3.93±.06; $M_{\phi\phi}$−3.87±.06; $M_{r\theta}$−0.22±.18; $M_{r\phi}$−0.11±.20; $M_{\theta\phi}$−2.18±.07. Principal Axes: T 4.51,Plg2°,Azm195°; N −0.07,Plg87°,Azm58°; P −4.44,Plg2°,Azm285°. Best double couple: M$_0$4.5×10^{17}Nm, NP1:ϕ_S330°,δ87°,λ0°. NP2:ϕ_S240°,δ90°,λ177°.

(425) South Indian Ocean

ISC	**IX**	**12 16 48 24**±4.6	**0.55S**±.041	**86.80E**±.044	**13**±28	**4.9b,4.5s**	**139**	**12-150**
BJI	IX	12 16 48 21.1	1.31S	86.64E	33	5.1b,4.7s		¶97ix1847
NEIC	IX	12 16 48 26.6	0.48S	86.85E	33	4.9b,4.3s		
HRVD	IX	12 16 48 26.8±.6	0.44S±.08	86.73E±.06	15			
MOS	IX	12 16 48 27.0	0.4S	86.9E	33	5.5b,4.3s		
EIDC	IX	12 16 48 29.1	0.6S	86.7E	40	4.4b,4.3s		

NEIC Mw5.2(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c36; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.21±.37; $M_{\theta\theta}$−4.81±.46; $M_{\phi\phi}$5.02±.59; $M_{r\theta}$0.40±1.46; $M_{r\phi}$0.58±1.69; $M_{\theta\phi}$−5.94±.39. Principal Axes: T 7.83,Plg3°,Azm245°; N −0.18,Plg85°,Azm4°; P −7.65,Plg5°,Azm155°. Best double couple: M$_0$7.7×10^{16}Nm, NP1: ϕ_S290°,δ85°,λ−179°. NP2:ϕ_S200°,δ89°,λ−5°.

(184) Santa Cruz Islands

ISC	**IX**	**17 12 34 24**±3.0	**11.08S**±.047	**165.81E**±.051	**21**±21	**5.0b,4.8s**	**158**	**6-170**
EIDC	IX	17 12 34 22.3	11.1S	165.8E	0	4.7b,4.6s		¶97ix2508
MOS	IX	17 12 34 25.3	11.0S	165.7E	32	5.5b		
BJI	IX	17 12 34 25.7	10.52S	165.95E	20	4.9b		
NEIC	IX	17 12 34 26.3	11.10S	165.80E	41	5.1b,4.9s		
HRVD	IX	17 12 34 28.4±1.3	10.88S±.11	165.97E±.13	40±5.5			

NEIC Mw5.2(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c29; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.20±1.21; $M_{\theta\theta}$2.63±.60; $M_{\phi\phi}$1.56±1.02; $M_{r\theta}$−2.96±.58; $M_{r\phi}$−3.95±.65; $M_{\theta\phi}$0.57±1.28. Principal Axes: T 5.21,Plg27°,Azm138°; N 1.61,Plg6°,Azm45°; P −6.82,Plg62°,Azm302°. Best double couple: M$_0$6.0×10^{16}Nm, NP1: ϕ_S244°,δ19°,λ−70°. NP2:ϕ_S43°,δ73°,λ−97°.

(266) Molucca Passage

ISC	**IX**	**17 14 50 36.4**±.69	**2.10N**±.024	**126.61E**±.033	**45**±6.3	**5.6b,5.5s**	**350**	**2-166**
EIDC	IX	17 14 50 31.4	2.1N	126.5E	0	5.5b,4.7$_L$		¶97ix2522
BJI	IX	17 14 50 34.2	1.96N	126.53E	38	5.7b,5.6s		
NEIC	IX	17 14 50 35.3	2.11N	126.60E	33	5.7b,5.5s		
MOS	IX	17 14 50 35.8	2.2N	126.6E	33	6.1b,5.4s		
HRVD	IX	17 14 50 43.6±.1	2.42N±.01	126.59E±.01	38±.5			

NEIC Mw6.0(GS), Me5.7(GS). Felt I=III MM.
NEIC Mw 6.0 (HRV). Felt I=III MM at Bitung, Indonesia.
NEIC Radiated energy from the P−wave first−motion solution: 8.5±1.8×10^{12}Nm/13
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S230°,δ40°,λ120°. NP2:ϕ_S13°,δ56°,λ67°. Principal axes: T Plg69°,Azm232°; P Plg9°,Azm119°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s28, scale 10^{18}Nm; M_{rr}1.02; $M_{\theta\theta}$0.45; $M_{\phi\phi}$−1.47; $M_{r\theta}$−0.24; $M_{r\phi}$0.07; $M_{\theta\phi}$−0.45. Depth 37km; Principal axes: T 1.13,Plg67°,Azm193°; N 0.44,Plg23°, Azm12°; P −1.57,Plg0°,Azm103°. Best double couple: M$_0$1.3×10^{18}Nm; NP1:ϕ_S214°,δ49°, λ122°. NP2:ϕ_S351°,δ50°,λ59°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c127; Mantle waves: s47,c70; Half duration: 2s4. Moment tensor: Scale 10^{18}Nm; M_{rr}1.26±.01; $M_{\theta\theta}$−0.22±.01; $M_{\phi\phi}$−1.03±.01; $M_{r\theta}$−0.20±.02; $M_{r\phi}$−0.40±.02; $M_{\theta\phi}$−0.44±.01. Principal Axes: T 1.33,Plg80°,Azm119°; N −0.03,Plg1°,Azm24°; P −1.30,Plg10°,Azm294°. Best double couple: M$_0$1.3×10^{18}Nm, NP1:ϕ_S23°,δ35°,λ89°. NP2:ϕ_S205°,δ55°,λ91°.

(429) Mid-Indian Rise

ISC	**IX**	**18 01 21 28.0**±.73	**41.9S**±.14	**80.0E**±.15	**10**	**4.6b,4.4s**	**20**	**27-173**
BJI	IX	18 01 21 27.5	41.90S	79.90E	10	4.6b,5.5s		¶97ix2593
NEIC	IX	18 01 21 27.5	41.94S	79.94E	10	4.6b		
EIDC	IX	18 01 21 31.0	41.8S	79.9E	19	4.3s,4.3b		

NEIC Less reliable solution.

(153) South Sandwich Islands region

ISC	**IX**	**18 18 19 41.2**±.25	**60.72S**±.059	**24.5W**±.12	**33**	**5.3b,5.3s**	**154**	**12-177**
EIDC	IX	18 18 19 38.1	60.8S	24.5W	0	5.3b,5.4s		¶97ix2695
MOS	IX	18 18 19 41.1	61.2S	24.9W	33	5.7b,5.3s		
BJI	IX	18 18 19 41.3	60.70S	24.50W	33	5.8s		
NEIC	IX	18 18 19 41.3	60.72S	24.48W	33	5.4b,5.1s		
HRVD	IX	18 18 19 42.9±.2	61.29S±.02	23.83W±.05	15			

NEIC Mw5.7(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c88; Half

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °

duration: 1ŝ7. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.67±.06; $M_{\theta\theta}$2.79±.08; $M_{\phi\phi}$−1.12±.08; $M_{r\theta}$0.94±.23; $M_{r\phi}$0.26±.22; $M_{\theta\phi}$3.19±.07. Principal Axes: T 4.72,Plg8°,Azm331°; N −1.76, Plg76°,Azm96°; P −2.96,Plg11°,Azm239°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S15°, δ76°,λ−178°. NP2:ϕ_S285°,δ88°,λ−14°.

(25) Vancouver Island region

ISC	**IX**	**20 07 10 00.7**±.19	**50.86N**±.028	**130.25W**±.050	**10**	**5.0b,4.8s**	**311**	**1-151**	
PGC	IX	20 07 09 57.6	50.8N	130.6W	10	4.9b			**¶97ix2913**
HRVD	IX	20 07 09 58.9±.5	50.70N±.08	130.75W±.08	15				
MOS	IX	20 07 09 59.3	50.7N	130.5W	10	5.5b,4.8s			
EIDC	IX	20 07 09 59.5	50.8N	130.3W	0	4.5b,4.2L			
NEIC	IX	20 07 10 00.5	50.90N	130.15W	10	5.1b,4.8s			
BJI	IX	20 07 10 03.1	51.93N	130.78W	7	4.8b,5.3s			

PGC West of Vancouver Island, British Columbia

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c39; Half duration: 1ŝ2. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.11±.31; $M_{\theta\theta}$−1.62±.49; $M_{\phi\phi}$4.73±.49; $M_{r\theta}$−2.42±1.13; $M_{r\phi}$−1.77±1.36; $M_{\theta\phi}$6.29±.30. Principal Axes: T 9.23,Plg13°,Azm123°; N −3.20,Plg61°,Azm237°; P −6.03,Plg25°,Azm26°. Best double couple: $M_0$7.6×10^{16}Nm, NP1: ϕ_S167°,δ63°,λ−171°. NP2:ϕ_S73°,δ82°,λ−28°.

NEIC Mw5.2(HRV).

(177) Kermadec Islands region

ISC	**IX**	**20 16 11 29.5**±.14	**28.74S**±.037	**177.58W**±.034	**11**	**6.1b,6.9s**	**729**	**1-173**	
EIDC	IX	20 16 11 31.0	28.8S	177.5W	11	5.8b,6.9s			**¶97ix2961**
NEIC	IX	20 16 11 32.1	28.68S	177.62W	30	6.1b,7.0s			
BJI	IX	20 16 11 32.6	28.30S	177.21W	29	6.2b,7.0s			
MOS	IX	20 16 11 33.4	28.5S	177.6W	33	6.7b,6.8s			
HRVD	IX	20 16 11 43.0±.1	28.83S	176.99W	46±.2				

WEL Felt I=VI MM Raoul Island

NEIC Ms7.1(BRK), Mw7.0(HRV).

NEIC Mw 6.9 (GS). Me 6.5 (GS). M_0=4.4×10^{19}Nm (PPT).

NEIC Radiated energy from the P−wave first−motion solution: 1.3±0.2×10^{14}Nm/23

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S180°,δ35°,λ80°. NP2:ϕ_S12°,δ56°,λ97°. Principal axes: T Plg78°,Azm307°; P Plg10°,Azm97°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s42, scale 10^{19}Nm; M_{rr}2.48; $M_{\theta\theta}$0.16; $M_{\phi\phi}$−2.64; $M_{r\theta}$0.29; $M_{r\phi}$0.60; $M_{\theta\phi}$0.86. Depth 35km; Principal axes: T 2.61,Plg78°,Azm320°; N 0.32,Plg11°,Azm166°; P −2.93,Plg5°,Azm75°. Best double couple: $M_0$2.8×10^{19}Nm; NP1:ϕ_S153°,δ41°,λ73°. NP2: ϕ_S355°,δ51°,λ104°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s66,c181; Mantle waves: s63,c176; Half duration: 7ŝ7. Moment tensor: Scale 10^{19}Nm; M_{rr}2.88±.01; $M_{\theta\theta}$−0.06±.01; $M_{\phi\phi}$−2.82±.01; $M_{r\theta}$0.49±.02; $M_{r\phi}$1.74±.02; $M_{\theta\phi}$−0.81±.01. Principal Axes: T 3.39,Plg74°,Azm286°; N 0.16,Plg0°,Azm195°; P −3.55,Plg16°,Azm105°. Best double couple: $M_0$3.5×10^{19}Nm, NP1:ϕ_S195°,δ29°,λ90°. NP2:ϕ_S15°,δ61°,λ90°.

(572) Lake Tanganyika region

ISC	**IX**	**21 18 13 23.0**±.18	**7.36S**±.031	**30.32E**±.036	**10**	**5.5b,5.9s**	**444**	**9-164**	
NEIC	IX	21 18 13 22.7	7.36S	30.37E	10	5.7b,6.2s			**¶97ix3142**
MOS	IX	21 18 13 23.0	7.3S	30.3E	10	5.7b,5.8s			
BJI	IX	21 18 13 23.6	6.88S	30.18E	8	5.4b,5.9s			
EIDC	IX	21 18 13 28.3	7.4S	30.3E	38	4.7b			
HRVD	IX	21 18 13 32.5±.1	7.29S±.02	30.27E±.01	30				

NEIC Mw5.9(GS), Me5.6(GS).

NEIC Mw 5.9 (HRV).

NEIC Radiated energy from the P−wave first−motion solution: 4.8±0.9×10^{12}Nm/10

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S185°,δ65°,λ−45°. NP2:ϕ_S298°,δ50°, λ−147°. Principal axes: T Plg9°,Azm245°; P Plg49°,Azm144°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s23, scale 10^{17}Nm; M_{rr}−4.24; $M_{\theta\theta}$0.10; $M_{\phi\phi}$4.14; $M_{r\theta}$0.14; $M_{r\phi}$5.31; $M_{\theta\phi}$−1.88. Depth 22km; Principal axes: T 7.10,Plg24°,Azm255°; N −0.15,Plg13°,Azm351°; P −6.94,Plg62°,Azm107°. Best double couple: $M_0$7.0×10^{17}Nm; NP1:ϕ_S320°,δ24°,λ−124°. NP2:ϕ_S176°,δ70°,λ−76°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c108; Mantle waves: s30,c38; Half duration: 2ŝ2. Moment tensor: Scale 10^{17}Nm; M_{rr}−5.68±.07; $M_{\theta\theta}$−0.66±.07; $M_{\phi\phi}$6.34±.09; $M_{r\theta}$1.74±.16; $M_{r\phi}$4.50±.16; $M_{\theta\phi}$−2.94±.07. Principal Axes: T 8.42,Plg15°,Azm255°; N −0.30,Plg24°,Azm352°; P −8.11,Plg61°,Azm135°. Best double couple: $M_0$8.3×10^{17}Nm, NP1:ϕ_S315°,δ36°,λ−133°. NP2:ϕ_S184°,δ64°,λ−64°.

(9) Fox Islands

ISC	**IX**	**21 22 03 05.4**±.21	**51.99N**±.044	**170.60W**±.037	**35**±3.0*	**5.2b,4.7s**	**376**	**4-154**	
EIDC	IX	21 22 03 01.4	52.1N	170.7W	0	5.0b,4.6s			**¶97ix3172**
BJI	IX	21 22 03 02.9	52.08N	171.14W	13	5.3b,5.0s			
NEIC	IX	21 22 03 04.9	51.99N	170.57W	33	5.2b,4.7s			
MOS	IX	21 22 03 05.3	52.0N	170.6W	33	5.8b,4.7s			
HRVD	IX	21 22 03 06.0±.4	51.95N±.04	170.32W±.07	32±3.1				

NEIC M_L5.4(PMR), Mw5.2(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c55; Half duration: 1ŝ0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.85±.29; $M_{\theta\theta}$−4.81±.30; $M_{\phi\phi}$−1.04±.30; $M_{r\theta}$4.86±.82; $M_{r\phi}$3.40±.83; $M_{\theta\phi}$−2.55±.44. Principal Axes: T 8.33,Plg67°,Azm319°; N 0.19, Plg4°,Azm59°; P −8.51,Plg22°,Azm151°. Best double couple: $M_0$8.4×10^{16}Nm, NP1:ϕ_S250°, δ23°,λ101°. NP2:ϕ_S57°,δ67°,λ85°.

(702) Balleny Islands region

ISC	**IX**	**23 17 51 23.0**±.51	**65.36S**±.059	**179.2E**±.25	**10**	**4.9b,5.5s**	**92**	**13-164**	
NEIC	IX	23 17 51 23.4	65.53S	178.81E	10	5.0b,5.9s			**¶97ix3462**
EIDC	IX	23 17 51 24.0	65.4S	179.0E	0	4.6b,5.4s			
BJI	IX	23 17 51 25.4	65.50S	178.80E	20	5.4s			
MOS	IX	23 17 51 25.5	65.9S	179.8W	10	5.6b,5.5s			
HRVD	IX	23 17 51 26.8±.1	65.35S±.01	179.55W±.04	15				

NEIC Mw5.8(HRV), Less reliable solution.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c105; Half duration: 1ŝ9. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.52±.06; $M_{\theta\theta}$5.98±.07; $M_{\phi\phi}$−5.46±.08; $M_{r\theta}$0.08±.20; $M_{r\phi}$−0.91±.19; $M_{\theta\phi}$−0.84±.07. Principal Axes: T 6.04,Plg1°,Azm4°; N −0.36, Plg80°,Azm102°; P −5.68,Plg10°,Azm274°. Best double couple: $M_0$5.9×10^{17}Nm, NP1: ϕ_S50°,δ82°,λ−174°. NP2:ϕ_S319°,δ84°,λ−8°.

(135) Near coast of Central Chile

ISC	**IX**	**24 22 06 56.9**±.76	**31.74S**±.047	**71.48W**±.078	**57**±7.2	**4.9b**		**74**	**1-170**
GUC	IX	24 22 06 56.4	31.84S	71.64W	26	5.0D			**¶97ix3641**
BJI	IX	24 22 06 56.4	31.70S	71.50W	54	5.5s			
NEIC	IX	24 22 06 56.4	31.74S	71.55W	54	4.9b			
EIDC	IX	24 22 06 56.7	31.8S	71.5W	42	4.7b,4.6L			

NEIC Felt I=IV MM at La Ligua, Petorca, Quillota and Valparaiso; III MM at Canela, Illapel, Los Vilos, Salamanca, San Felipe and Santiago; II MM at Los Andes, Rancagua and San Antonio.

(429) Mid-Indian Rise

ISC	**IX**	**25 14 20 48.9**±.17	**13.75S**±.037	**66.26E**±.028	**10**	**5.3b,5.6s**	**373**	**19-162**	
EIDC	IX	25 14 20 48.8	13.8S	66.3E	0	5.0b,5.6s			**¶97ix3750**
NEIC	IX	25 14 20 48.9	13.76S	66.25E	10	5.3b,5.7s			
BJI	IX	25 14 20 49.3	13.28S	66.23E	5	5.5b,5.6s			
MOS	IX	25 14 20 49.4	13.7S	66.3E	10	5.9b,5.3s			
HRVD	IX	25 14 20 54.5±.1	13.54S±.01	66.11E±.01	15				

NEIC Mw6.0(GS), Mw6.0(HRV).

NEIC Moment tensor solution: s27, scale 10^{18}Nm; M_{rr}0.07; $M_{\theta\theta}$−1.18; $M_{\phi\phi}$1.10; $M_{r\theta}$−0.18; $M_{r\phi}$0.09; $M_{\theta\phi}$0.17. Depth 18km; Principal axes: T 1.12,Plg4°,Azm274°; N 0.10,Plg81°, Azm157°; P −1.22,Plg8°,Azm4°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S49°,δ81°,λ−3°. NP2:ϕ_S139°,δ87°,λ−171°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c113; Mantle waves: s46,c85; Half duration: 2ŝ4. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.11±.01; $M_{\theta\theta}$−0.92±.01; $M_{\phi\phi}$1.03±.01; $M_{r\theta}$−0.25±.03; $M_{r\phi}$0.02±.03; $M_{\theta\phi}$0.35±.01. Principal Axes: T 1.09,Plg1°,Azm100°; N −0.04,Plg75°,Azm195°; P −1.05,Plg15°,Azm10°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S146°,δ79°,λ−170°. NP2:ϕ_S54°,δ80°,λ−12°.

(184) Santa Cruz Islands

ISC	**IX**	**25 19 54 05**±1.8	**12.55S**±.043	**166.40E**±.050	**45**±16	**5.4b,5.0s**	**227**	**5-153**	
EIDC	IX	25 19 53 59.3	12.6S	166.7E	0	5.1b,5.0s			**¶97ix3785**
NEIC	IX	25 19 54 03.1	12.50S	166.47E	33	5.3b,5.1s			
MOS	IX	25 19 54 03.4	12.5S	166.5E	33	5.6b,5.0s			
BJI	IX	25 19 54 03.8	12.05S	166.76E	29	5.8b,5.2s			
HRVD	IX	25 19 54 08.8±.2	12.48S±.02	166.14E±.02	55				

NEIC Mw5.6(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c92; Half duration: 1ŝ5. Moment tensor: Scale 10^{17}Nm; M_{rr}2.34±.04; $M_{\theta\theta}$0.00±.06; $M_{\phi\phi}$−2.34±.06; $M_{r\theta}$0.55±.05; $M_{r\phi}$0.89±.06; $M_{\theta\phi}$0.54±.05. Principal Axes: T 2.66,Plg72°,Azm320°; N −0.08, Plg15°,Azm172°; P −2.58,Plg9°,Azm80°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S152°, δ38°,λ65°. NP2:ϕ_S3°,δ56°,λ109°.

(177) Kermadec Islands region

ISC	**IX**	**25 23 26 53.3**±.21	**27.25S**±.054	**176.76W**±.055	**42**±1.3*	**5.2b,5.3s**	**261**	**2-166**	
MOS	IX	25 23 26 52.6	27.0S	176.8W	33	5.6b,4.9s			**¶97ix3805**
NEIC	IX	25 23 26 53.3	27.09S	176.78W	41	5.3b,5.3s			
BJI	IX	25 23 26 53.5	26.81S	176.48W	40	5.4b			
EIDC	IX	25 23 26 55.5	27.0S	176.7W	44	4.8b			
HRVD	IX	25 23 26 56.7±.2	27.18S±.03	176.35W±.03	34±2.2				

NEIC Mw5.5(HRV), Mw5.4(GS).

NEIC Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}−1.10; $M_{\theta\theta}$0.35; $M_{\phi\phi}$0.74; $M_{r\theta}$−0.53; $M_{r\phi}$0.61; $M_{\theta\phi}$1.02. Depth 26km; Principal axes: T 1.60,Plg3°,Azm308°; N 0.05,Plg34°, Azm216°; P −1.65,Plg55°,Azm43°. Best double couple: $M_0$1.6×10^{17}Nm; NP1:ϕ_S69°,δ52°, λ−44°. NP2:ϕ_S190°,δ57°,λ−132°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c76; Mantle waves: s2,c3; Half duration: 1ŝ3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.56±.04; $M_{\theta\theta}$0.28±.06; $M_{\phi\phi}$1.28±.06; $M_{r\theta}$−0.47±.09; $M_{r\phi}$−0.15±.12; $M_{\theta\phi}$0.69±.05. Principal Axes: T 1.67,Plg6°,Azm118°; N 0.01,Plg12°,Azm210°; P −1.68,Plg76°,Azm2°. Best double couple: $M_0$1.7×10^{17}Nm, NP1:ϕ_S195°,δ40°,λ−109°. NP2:ϕ_S39°,δ53°,λ−74°.

(381) Central Italy

ISC	**IX**	**26 00 33 12.7**±.10	**43.06N**±.014	**12.89E**±.014	**10**	**5.5b,5.6s**	**571**	**0-150**	
PDG	IX	26 00 32 14.9	42.9N	12.9E	10	5.5D			**¶97ix3814**
BJI	IX	26 00 33 09.5	42.82N	12.72E	3	5.6b,6.0s			
LEDBW	IX	26 00 33 09.6	42.35N	13.59E	10	5.4L			
CSEM	IX	26 00 33 10.1	42.70N	12.75E	10				
ROM	IX	26 00 33 11.8	43.0N	12.9E	8	5.6D			
MOS	IX	26 00 33 12.0	43.0N	12.9E	10	5.8b,5.7s			
NEIC	IX	26 00 33 12.2	43.05N	12.88E	10	5.5b,5.6s			
EIDC	IX	26 00 33 12.4	43.0N	12.8E	0	5.2b,4.8L			
LDG	IX	26 00 33 12.6	42.9N	13.0E		5.2L			
THE	IX	26 00 33 17.7	42.9N	12.8E		5.5L			
STR	IX	26 00 33 18.9	43.26N	12.53E	10	5.7L			
HRVD	IX	26 00 33 18.9±.2	43.01N±.02	12.86E±.03	15				

PIST Felt I=I MSK in the Western Pyrenees

LEDBW Felt I=VIII MSK

CSEM Mw5.9. M_0=7.3×10^{17}Nm. Fault plane solution NP1:ϕ_S166°,δ36°,λ−47°. NP2:ϕ_S297°,δ65°, λ−116°. Principal Axes: T Plg16°,Azm46°; N Plg24°,Azm309°; P Plg61°,Azm166°.

NEIC M_L5.9(VIE), Mw5.7(HRV). Casualties I=VIII MM.

NEIC Radiated energy from the P−wave first−motion solution: 7.6±2.3×10^{12}Nm/11

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S195°,δ55°,λ−25°. NP2:ϕ_S300°,δ70°, λ−142°. Principal axes: T Plg9°,Azm65°; P Plg41°,Azm163°. Depth from synthetics of broadband displacement seismograms.

NEIC Mw 5.6 (GS). Me 5.7 (GS). ML 5.6 (FUR). Casualties and damage in the Marche and Umbria regions are included in the comment for the event at 09:40:26 UTC on September 26. Maximum intensity I=VIII MM in the epicentral area. Damage to the Basilica of St. Francis at Assisi.

NEIC Moment tensor solution: s5, scale 10^{17}Nm; M_{rr}−3.13; $M_{\theta\theta}$0.29; $M_{\phi\phi}$2.84; $M_{r\theta}$0.20; $M_{r\phi}$−0.36; $M_{\theta\phi}$−1.44. Depth 7km; Principal axes: T 3.52,Plg4°,Azm66°; N −0.36,Plg1°, Azm336°; P −3.16,Plg86°,Azm234°. Best double couple: $M_0$3.3×10^{17}Nm; NP1:ϕ_S157°,δ41°, λ−89°. NP2:ϕ_S335°,δ49°,λ−91°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c75; Mantle waves: s21,c27; Half duration: 1ŝ7. Moment tensor: Scale 10^{17}Nm; M_{rr}−3.11±.10; $M_{\theta\theta}$0.85±.08; $M_{\phi\phi}$2.26±.10; $M_{r\theta}$1.05±.24; $M_{r\phi}$−0.53±.29; $M_{\theta\phi}$−2.45±.10. Principal Axes: T 4.26,Plg8°,Azm52°; N −0.89,Plg12°,Azm320°; P −3.38,Plg75°,Azm176°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S156°,δ38°,λ−71°. NP2:ϕ_S312°,δ54°,λ−105°.

(381) Central Italy

ISC	**IX**	**26 09 40 25.3**±.50	**43.09N**±.013	**12.82E**±.013	**0**±3.4	**5.7b,6.1s**	**642**	**0-150**	
ROM	IX	26 09 40 24.9	43.0N	12.9E	6	5.8D			**¶97ix3938**
BJI	IX	26 09 40 25.7	43.06N	12.79E	10	6.0b,6.4s			
MOS	IX	26 09 40 26.2	43.1N	12.9E	10	6.4b,6.0s			
NEIC	IX	26 09 40 26.3	43.08N	12.81E	10	5.7b,6.0s			
CSEM	IX	26 09 40 27.0	43.09N	12.96E	10				
LDG	IX	26 09 40 27.8	42.9N	12.8E		5.6L			
LEDBW	IX	26 09 40 28.8	42.49N	12.76E	10	6.0L			
PDG	IX	26 09 40 28.9	42.6N	12.9E	10	5.8D			
EIDC	IX	26 09 40 29.5	43.0N	12.7E	18	5.2b,6.0s			
THE	IX	26 09 40 32.1	43.0N	12.7E					
HRVD	IX	26 09 40 33.3±.1	43.08N±.01	12.78E±.02	15				
STR	IX	26 09 40 34.2	43.33N	12.33E	10	6.0L			

ISC Felt I=IV−V MSK in Log pri Brezovici (after CEY)

NEIC M_L6.4(VIE), Me6.1(GS). Casualties I=X MM.

NEIC Radiated energy from the P−wave first−motion solution: 2.9±0.7×10^{13}Nm/18

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S200°,δ55°,λ−30°. NP2:ϕ_S308°,δ66°, λ−141°. Principal axes: T Plg7°,Azm72°; P Plg44°,Azm168°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s26, scale 10^{17}Nm; M_{rr}−9.90; $M_{\theta\theta}$3.10; $M_{\phi\phi}$6.70; $M_{r\theta}$1.00; $M_{r\phi}$−0.70; $M_{\theta\phi}$−5.70. Depth 3km; Principal axes: T 11.0,Plg3°,Azm54°; N −1.0,Plg2°, Azm324°; P −9.9,Plg86°,Azm199°. Best double couple: $M_0$1.0×10^{18}Nm; NP1:ϕ_S146°,δ42°, λ−87°. NP2:ϕ_S322°,δ48°,λ−93°.

NEIC Mw 6.0 (GS), 6.0 (HRV). ML 6.2 (FUR). Eleven people killed, more than 100 injured and about 80,000 homes destroyed or damaged in the Marche and Umbria regions by this earthquake and the event at 00:33:12 UTC on September 26. Maximum intensity I=X MCS at Serravalle di Chienti and IX MCS at Valtopina. Extensive damage to the Basilica of St. Francis at Assisi. Felt in many parts of central and northern Italy from Bologna and Modena to Rome. Felt IV MSK in western and central Slovenia and III MSK in southern Karnten Province, Austria.

NEIC Felt I=III MSK southern Carinthia (after WTTA)

CSEM Mw6.0. M_0=1.1×10^{18}Nm. Fault plane solution NP1:ϕ_S75°,δ45°,λ−128°. NP2:ϕ_S303°,δ56°, λ−58°. Principal Axes: T Plg6°,Azm11°; N Plg26°,Azm104°; P Plg63°,Azm269°.

LEDBW Felt I=XI MSK

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c100; Mantle waves: s36,c55; Half duration: 2ŝ7. Moment tensor: Scale 10^{18}Nm; M_{rr}−1.07±.01; $M_{\theta\theta}$0.43±.01; $M_{\phi\phi}$0.64±.01; $M_{r\theta}$0.18±.05; $M_{r\phi}$−0.16±.05; $M_{\theta\phi}$−0.61±.01. Principal Axes: T

1.18,Plg6°,Azm50°; N −0.09,Plg2°,Azm320°; P −1.09,Plg84°,Azm214°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S142°,δ39°,λ−87°. NP2:ϕ_S318°,δ51°,λ−92°.

(201) West Irian

ISC	IX	26 14 16 01.4±.85	3.15S±.033	139.08E±.040	38±8.6	5.2b,5.1s	155 1-160
DJA	IX	26 14 15 55.3	4.2S	139.4E	2	5.3L,5.3D	¶97ix4037
EIDC	IX	26 14 15 58.3	3.1S	139.0E	0	5.0b,5.1L	
BJI	IX	26 14 16 00.1	3.15S	139.33E	37	5.3b,4.9s	
NEIC	IX	26 14 16 00.9	3.15S	139.08E	33	5.3b,5.3s	
MOS	IX	26 14 16 01.2	3.1S	138.8E	33	5.6b,5.0s	
HRVD	IX	26 14 16 05.1±.4	3.36S±.05	139.33E±.05	44±4.3		

NEIC Mw5.4(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c48; Half duration: 1^{s}2. Moment tensor: Scale 10^{16}Nm; M_{rr}9.12±.47; $M_{\theta\theta}$−3.64±.64; $M_{\phi\phi}$−5.48±.76; $M_{r\theta}$6.94±1.14; $M_{r\phi}$−2.65±.94; $M_{\theta\phi}$7.23±.57. Principal Axes: T 12.2,Plg66°,Azm356°; N 1.6, Plg18°,Azm130°; P −13.8,Plg16°,Azm225°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S340°,δ32°,λ124°. NP2:ϕ_S121°,δ64°,λ70°.

(177) Kermadec Islands region

ISC	IX	27 07 22 52±1.5	29.82S±.056	176.80W±.068	43±13	5.1b,5.3s	198 1-169
EIDC	IX	27 07 22 47.6	29.4S	176.8W	0	5.0b,4.5L	¶97ix4287
NEIC	IX	27 07 22 50.9	29.56S	176.91W	33	5.1b,5.4s	
BJI	IX	27 07 22 51.5	28.83S	176.22W	33	5.5b,5.5s	
HRVD	IX	27 07 22 53.5±.4	29.30S±.06	176.15W±.05	15		

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c41; Half duration: 1^{s}0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.87±.49; $M_{\theta\theta}$0.03±.87; $M_{\phi\phi}$−6.90±.55; $M_{r\theta}$2.93±.92; $M_{r\phi}$6.92±.98; $M_{\theta\phi}$−0.10±.48. Principal Axes: T 10.4,Plg64°,Azm305°; N −0.5, Plg10°,Azm192°; P −9.9,Plg23°,Azm98°. Best double couple: $M_0$1.0×10^{17}Nm, NP1:ϕ_S168°, δ23°,λ63°. NP2:ϕ_S16°,δ69°,λ101°.

(184) Santa Cruz Islands

ISC	IX	27 11 28 15±3.0	10.75S±.047	165.52E±.051	28±21	5.1b,5.1s	189 6-170
BJI	IX	27 11 28 13.9	10.40S	165.65E	16	5.2b,5.1s	¶97ix4346
NEIC	IX	27 11 28 14.3	10.75S	165.52E	23	5.2b,5.1s	
MOS	IX	27 11 28 16.5	10.7S	165.4E	33	5.5b,4.9s	
EIDC	IX	27 11 28 16.5	10.8S	165.7E	28	4.8b,4.9s	
HRVD	IX	27 11 28 21.9±.3	10.63S±.05	165.31E±.05	34±2.8		

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c51; Half duration: 1^{s}0. Moment tensor: Scale 10^{16}Nm; M_{rr}9.57±.69; $M_{\theta\theta}$−2.76±.54; $M_{\phi\phi}$−6.81±.60; $M_{r\theta}$−0.81±.76; $M_{r\phi}$6.53±.93; $M_{\theta\phi}$−1.28±.80. Principal Axes: T 12.0,Plg70°,Azm256°; N −2.7, Plg7°,Azm6°; P −9.2,Plg18°,Azm99°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S200°, δ27°,λ106°. NP2:ϕ_S3°,δ64°,λ82°.

(268) Sulawesi (Celebes)

ISC	IX	28 01 38 28.8±.61	3.80S±.025	119.69E±.031	38±5.8	5.5b,5.4s	316 0-173
MOS	IX	28 01 38 28.6	3.7S	119.7E	33	6.0b,5.2s	¶97ix4508
BJI	IX	28 01 38 28.6	3.69S	119.87E	33	5.8b,5.5s	
NEIC	IX	28 01 38 28.6	3.78S	119.73E	33	5.6b,5.5s	
KLM	IX	28 01 38 29	3.7S	119.7E	33	5.2L	
EIDC	IX	28 01 38 31.3	3.7S	119.8E	38	5.1b,6.1L	
HRVD	IX	28 01 38 34.2±.1	3.92S±.02	119.77E±.01	35±1.1		

NEIC Mw5.9(GS), Me5.6(GS). Casualties.

NEIC Radiated energy from the P−wave first−motion solution: 6.2±1.2×10^{12}Nm/16

NEIC Mw 5.9 (HRV). At least 18 people killed, over 300 injured and 650 houses and buildings destroyed in the Parepare-Pinrang area. Felt I=IV MM at Majene and III MM at Ujungpandang.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S0°,δ35°,λ90°. NP2:ϕ_S180°,δ55°,λ90°. Principal axes: T Plg80°,Azm90°; P Plg10°,Azm270°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s32, scale 10^{17}Nm; M_{rr}4.82; $M_{\theta\theta}$3.17; $M_{\phi\phi}$−8.02; $M_{r\theta}$1.30; $M_{r\phi}$−0.27; $M_{\theta\phi}$0.82. Depth 16km; Principal axes: T 5.54,Plg61°,Azm359°; N 2.55,Plg29°, Azm175°; P −8.09,Plg2°,Azm266°. Best double couple: $M_0$6.8×10^{17}Nm; NP1:ϕ_S22°,δ50°, λ129°. NP2:ϕ_S150°,δ53°,λ53°.

KLM Mb5.6

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c111; Mantle waves: s11,c16; Half duration: 2^{s}1. Moment tensor: Scale 10^{17}Nm; M_{rr}6.05±.07; $M_{\theta\theta}$1.46±.09; $M_{\phi\phi}$−7.51±.11; $M_{r\theta}$1.18±.16; $M_{r\phi}$−1.50±.19; $M_{\theta\phi}$0.07±.09. Principal Axes: T 6.49,Plg76°,Azm24°; N 1.19,Plg13°,Azm177°; P −7.68,Plg6°,Azm269°. Best double couple: $M_0$7.1×10^{17}Nm, NP1:ϕ_S13°,δ40°,λ110°. NP2:ϕ_S167°,δ53°,λ74°.

(216) Marianas

ISC	IX	29 17 35 47±1.7	20.16N±.027	145.88E±.040	33±15	5.2b,4.7s	242 7-166
NEIC	IX	29 17 35 51.0	20.20N	145.81E	70	5.3b	¶97ix4993
BJI	IX	29 17 35 51.2	20.52N	145.53E	40	5.0b,4.8s	
MOS	IX	29 17 35 51.4	20.4N	145.7E	61	5.6b,4.7s	
EIDC	IX	29 17 35 52.2	20.2N	145.8E	66	4.9b,4.7s	
HRVD	IX	29 17 35 53.3±.2	20.24N±.02	146.06E±.04	55±2.4		

NEIC Mw5.6(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c75; Half duration: 1^{s}4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.81±.04; $M_{\theta\theta}$2.01±.06; $M_{\phi\phi}$−1.20±.07; $M_{r\theta}$−1.25±.07; $M_{r\phi}$1.20±.07; $M_{\theta\phi}$0.31±.06. Principal Axes: T 2.49,Plg21°,Azm182°; N −0.01, Plg40°,Azm291°; P −2.48,Plg43°,Azm71°. Best double couple: $M_0$2.5×10^{17}Nm, NP1: ϕ_S227°,δ42°,λ−161°. NP2:ϕ_S122°,δ77°,λ−49°.

(211) South of Honshū

ISC	IX	30 06 27 24±1.3	31.98N±.023	141.99E±.031	5±7.6	5.4b,6.3s	530 2-168
BJI	IX	30 06 27 22.6	31.87N	141.71E	6	5.3b,6.3s	¶97ix5144
JMA	IX	30 06 27 24.4±.3	31.98N±.02	142.45E±.03	52	6.1	
EIDC	IX	30 06 27 24.6	31.9N	142.0E	0	4.9b,6.4s	
NEIC	IX	30 06 27 24.7	31.96N	141.88E	10	5.5b,6.5s	
MOS	IX	30 06 27 28.5	32.1N	141.8E	33	5.9b,6.3s	
HRVD	IX	30 06 27 33.9±.1	31.83N±.01	142.06E±.01	15		

NEIC Ms6.5(BRK), Mw6.2(GS).

NEIC Mw 6.2 (HRV). Me 5.8 (GS).

NEIC Radiated energy from the USGS moment tensor solution: 1.2±0.2×10^{13}Nm/17

NEIC Moment tensor solution: s51, scale 10^{18}Nm; M_{rr}0.10; $M_{\theta\theta}$−0.14; $M_{\phi\phi}$0.04; $M_{r\theta}$0.24; $M_{r\phi}$1.73; $M_{\theta\phi}$−0.66. Depth 19km; Principal axes: T 1.85,Plg43°,Azm258°; N 0.04,Plg20°,Azm8°; P −1.89,Plg40°,Azm117°. Best double couple: $M_0$1.9×10^{18}Nm; NP1:ϕ_S273°,δ21°,λ175°. NP2: ϕ_S8°,δ88°,λ69°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s51,c115; Mantle waves: s40,c64; Half duration: 3^{s}1. Moment tensor: Scale 10^{18}Nm; M_{rr}1.45±.01; $M_{\theta\theta}$0.08±.01; $M_{\phi\phi}$−1.53±.01; $M_{r\theta}$−0.01±.04; $M_{r\phi}$1.46±.04; $M_{\theta\phi}$0.14±.01. Principal Axes: T 2.05,Plg68°,Azm273°; N 0.09,Plg2°,Azm177°; P −2.13,Plg22°,Azm86°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S172°,δ23°,λ84°. NP2:ϕ_S358°,δ67°,λ93°.

(211) South of Honshū

ISC	IX	30 20 22 23±1.2	31.79N±.032	141.65E±.044	18±8.4	4.9b,4.9s	223 2-162
BJI	IX	30 20 22 20.7	31.75N	141.80E	23	5.0b,5.1s	¶97ix5306
NEIC	IX	30 20 22 21.2	31.81N	141.60E	10	5.0b,4.8s	
JMA	IX	30 20 22 22.1±.3	31.89N±.02	142.02E±.03	37	5.3	
MOS	IX	30 20 22 25.2	31.8N	141.5E	33	5.5b,4.9s	
EIDC	IX	30 20 22 25.7	31.8N	141.6E	31	4.4b,4.7s	
HRVD	IX	30 20 22 26.5±.4	31.74N±.06	141.90E±.06	15		

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c44; Half duration: 1^{s}0. Moment tensor: Scale 10^{16}Nm; M_{rr}8.46±.34; $M_{\theta\theta}$0.12±.47; $M_{\phi\phi}$−8.58±.49; $M_{r\theta}$−1.11±1.33; $M_{r\phi}$4.28±1.97; $M_{\theta\phi}$0.90±.37. Principal Axes: T 9.55,Plg76°,Azm247°; N 0.17,Plg4°,Azm352°; P −9.72,Plg13°,Azm83°. Best double couple: $M_0$9.6×10^{16}Nm, NP1: ϕ_S178°,δ32°,λ97°. NP2:ϕ_S350°,δ58°,λ86°.

(224) Hokkaido region

ISC	X	03 04 46 33.8±.52	42.50N±.038	144.70E±.042	47±3.8	5.1b,4.6s	245 0-151
BJI	X	03 04 46 31.6	42.59N	144.69E	32	5.2b,4.5s	¶97x0390
NEIC	X	03 04 46 32.0	42.51N	144.66E	33	5.1b,4.6s	
MOS	X	03 04 46 32.1	42.5N	144.7E	33	5.5b,4.6s	
SKHL	X	03 04 46 33.0	42.4N±.07	144.9E±.19	65±4		
JMA	X	03 04 46 33.6±.2	42.51N±.01	144.82E±.02	50±3	4.9	
HRVD	X	03 04 46 33.7±1.2	42.34N±.14	145.28E±.18	15		
EIDC	X	03 04 46 38.6	42.5N	144.6E	76	4.5b	

NEIC Mw5.2(HRV)

NEIC Felt I=III J1 in southeastern Hokkaido.

JMA Nodal plane solution: N71, Score 93%. NP1:ϕ_S267°,δ21°,λ139°. NP2:ϕ_S37°,δ76°,λ74°. Principle axes: T Plg56°,Azm286°; N Plg16°,Azm41°; P Plg29°,Azm140°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c22; Half duration: 1^{s}0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.35±.66; $M_{\theta\theta}$0.03±.54; $M_{\phi\phi}$−3.38±.68; $M_{r\theta}$2.34±1.78; $M_{r\phi}$5.19±1.75; $M_{\theta\phi}$−3.14±.76. Principal Axes: T 6.23,Plg63°,Azm284°; N 1.83,Plg6°,Azm26°; P −8.07,Plg26°,Azm119°. Best double couple: $M_0$7.2×10^{16}Nm, NP1: ϕ_S223°,δ19°,λ108°. NP2:ϕ_S24°,δ72°,λ84°.

(381) Central Italy

ISC	X	03 08 55 20.7±.52	43.07N±.014	12.81E±.015	2±3.7	5.1b,5.0s	470 0-150
LEDBW	X	03 08 55 19.3	42.37N	13.47E	10	5.1L	¶97x0431
ROM	X	03 08 55 20.6	43.0N	12.9E	5	4.7D	
LDG	X	03 08 55 21.1	42.9N	13.0E		4.9L	
BJI	X	03 08 55 21.1	43.21N	12.91E	4	5.3b,5.4s	
MOS	X	03 08 55 21.4	43.1N	12.8E	10	5.7b,5.0s	
NEIC	X	03 08 55 21.5	43.08N	12.79E	10	5.1b,4.9s	
EIDC	X	03 08 55 22.5	43.1N	12.9E	0	4.8b,5.0s	
HRVD	X	03 08 55 25.9±.4	43.01N±.05	12.66E±.07	15		
STR	X	03 08 55 28.9	43.34N	12.37E	10	5.2L	
PDG	X	03 08 55 30.8	42.6N	13.6E	15	4.9L,5.1D	

NEIC M_L5.5(VIE), Mw5.3(HRV)

NEIC ML 5.4 (FUR). About 20 people injured and additional damage I=VII MCS in the Marche and Umbria regions. Additional damage to the Basilica of St. Francis at Assisi. Felt at Rome.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c47; Half duration: 1^{s}0. Moment tensor: Scale 10^{16}Nm; M_{rr}−8.55±.62; $M_{\theta\theta}$6.86±.56; $M_{\phi\phi}$1.69±.64; $M_{r\theta}$0.20±1.76; $M_{r\phi}$−3.42±1.55; $M_{\theta\phi}$−4.90±.66. Principal Axes: T 10.0,Plg6°,Azm33°; N −0.3, Plg19°,Azm125°; P −9.7,Plg70°,Azm285°. Best double couple: $M_0$9.9×10^{16}Nm, NP1: ϕ_S103°,δ42°,λ−118°. NP2:ϕ_S319°,δ54°,λ−67°.

(353) Southern Iran

ISC	X	03 11 28 42.3±.66	27.80N±.033	54.69E±.022	48±6.2	5.1b,4.8s	370 4-134
BJI	X	03 11 28 35.0	27.77N	53.93E	33	5.0b,5.0s	¶97x0454
EIDC	X	03 11 28 37.4	27.8N	54.7E	0	5.0b,4.6s	
RYD	X	03 11 28 39.1	27.73N	55.14E	40	4.4D	
NEIC	X	03 11 28 40.5	27.81N	54.73E	33	5.2b,4.8s	
MOS	X	03 11 28 40.7	27.8N	54.7E	33	5.6b,4.8s	
HRVD	X	03 11 28 47.5±1.1	27.49N±.11	54.84E±.09	15		

NEIC Mw5.3(HRV). Casualties.

NEIC Six people injured and several houses damaged in the epicentral area.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c28; Half duration: 1^{s}0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.80±.55; $M_{\theta\theta}$−5.04±.53; $M_{\phi\phi}$2.25±.66; $M_{r\theta}$−6.49±2.17; $M_{r\phi}$−5.93±1.27; $M_{\theta\phi}$3.54±.60. Principal Axes: T 11.6,Plg44°,Azm124°; N −2.9,Plg32°,Azm251°; P −8.7,Plg29°,Azm1°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S142°,δ33°,λ164°. NP2:ϕ_S246°,δ81°,λ58°.

(34) Off coast of Northern California

ISC	X	04 10 57 34.2±.30	41.10N±.019	125.20W±.040	7	4.9b,5.1s	263 1-154
NEIC	X	04 10 57 34.0	41.05N	125.36W	7	5.0b,5.2s	¶97x0631
EIDC	X	04 10 57 35.6	41.2N	125.1W	0	4.5b,5.1s	
BJI	X	04 10 57 35.9	40.13N	126.03W	34	4.9b,5.6s	
HRVD	X	04 10 57 38.6±.2	40.96N±.02	125.33W±.03	15		

NEIC Mw5.6(HRV), M_D5.1(GM). Felt, After GM−P.

NEIC Mw 5.5 (BRK). ML 5.1 (BRK). A few items knocked from shelves at Eureka and Patrick's Point. Also felt at Arcata, Fields Landing, Fortuna, McKinleyville and Trinidad. Felt from Crescent City to Weott.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c83; Mantle waves: s7,c8; Half duration: 1^{s}5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.15±.04; $M_{\theta\theta}$−2.74±.04; $M_{\phi\phi}$2.59±.05; $M_{r\theta}$0.31±.15; $M_{r\phi}$0.67±.14; $M_{\theta\phi}$0.29±.05. Principal Axes: T 2.79,Plg15°,Azm274°; N −0.01,Plg74°,Azm72°; P −2.78,Plg6°,Azm182°. Best double couple: $M_0$2.8×10^{17}Nm, NP1:ϕ_S317°,δ76°,λ173°. NP2:ϕ_S49°,δ84°,λ14°.

(403) North Atlantic Ridge

ISC	X	04 15 29 46.7±.18	15.97N±.038	46.65W±.022	10	5.4b,5.3s	392 14-176
NEIC	X	04 15 29 46.2	15.92N	46.65W	10	5.5b	¶97x0674
MOS	X	04 15 29 46.5	15.9N	46.6W	10	5.7b,5.2s	
HRVD	X	04 15 29 48.1±.4	15.36N±.06	46.70W±.05	15		
BJI	X	04 15 29 48.2	15.90N	46.60W	10	5.6s	
EIDC	X	04 15 29 48.6	15.9N	46.7W	16	4.6b	

NEIC Mw5.5(HRV), Mw5.3(GS).

NEIC Moment tensor solution: s16, scale 10^{16}Nm; M_{rr}−9.60; $M_{\theta\theta}$1.20; $M_{\phi\phi}$8.30; $M_{r\theta}$1.80; $M_{r\phi}$−3.50; $M_{\theta\phi}$−2.20. Depth 13km; Principal axes: T 9.7,Plg11°,Azm73°; N 0.7,Plg4°, Azm343°; P −10.4,Plg78°,Azm235°. Best double couple: $M_0$1.0×10^{17}Nm; NP1:ϕ_S168°,δ34°, λ−83°. NP2:ϕ_S340°,δ56°,λ−94°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c60; Mantle waves: s2,c2; Half duration: 1^{s}3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.85±.06; $M_{\theta\theta}$0.08±.07; $M_{\phi\phi}$1.77±.09; $M_{r\theta}$0.88±.23; $M_{r\phi}$−0.60±.32; $M_{\theta\phi}$0.02±.06. Principal Axes: T 1.88,Plg10°,Azm86°; N 0.39,Plg19°,Azm352°; P −2.27,Plg68°,Azm202°. Best double couple: $M_0$2.1×10^{17}Nm, NP1:ϕ_S198°,δ39°,λ−58°. NP2:ϕ_S339°,δ58°,λ−113°.

(403) North Atlantic Ridge

ISC	X	04 15 34 29.8±.23	16.01N±.047	46.75W±.022	10	5.6b,5.5s	374 14-176
EIDC	X	04 15 34 29.1	16.1N	46.7W	0	4.8b	¶97x0676
MOS	X	04 15 34 29.3	15.9N	46.7W	10	6.0b,5.3s	
BJI	X	04 15 34 29.6	16.00N	46.70W	10	5.8s	
NEIC	X	04 15 34 29.6	16.01N	46.75W	10	5.6b,5.5s	
HRVD	X	04 15 34 33.1±.3	15.71N±.06	46.55W±.05	15		

NEIC Mw5.7(HRV), Mw5.5(GS).

NEIC Moment tensor solution: s20, scale 10^{17}Nm; M_{rr}−1.80; $M_{\theta\theta}$−0.15; $M_{\phi\phi}$1.95; $M_{r\theta}$−0.52; $M_{r\phi}$−0.27; $M_{\theta\phi}$−0.38. Depth 7km; Principal axes: T 2.03,Plg3°,Azm81°; N −0.04,Plg17°, Azm171°; P −1.99,Plg72°,Azm342°. Best double couple: $M_0$2.0×10^{17}Nm; NP1:ϕ_S153°,δ45°, λ−115°. NP2:ϕ_S7°,δ50°,λ−67°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c59; Mantle waves: s8,c9; Half duration: 1^{s}5. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.85±.09; $M_{\theta\theta}$−0.06±.11; $M_{\phi\phi}$2.91±.13; $M_{r\theta}$0.72±.33; $M_{r\phi}$1.72±.49; $M_{\theta\phi}$0.62±.10. Principal Axes: T 3.56,Plg16°,Azm283°; N −0.15,Plg6°,Azm15°; P −3.41,Plg73°,Azm123°. Best double couple: $M_0$3.5×10^{17}Nm, NP1:ϕ_S4°,δ29°,λ−102°. NP2:ϕ_S198°,δ61°,λ−84°.

(684) Easter Island Cordillera

ISC	X	04 18 31 41.2±.33	35.28S±.060	106.8W±.10	10	4.9b,5.1s	121 8-175
NEIC	X	04 18 31 41.0	35.29S	106.71W	10	4.9b,5.1s	¶97x0700
EIDC	X	04 18 31 41.1	35.3S	106.8W	0	4.8b	
BJI	X	04 18 31 45.0	35.30S	106.70W	10	5.9s	

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
HRVD	X	04 18 31 48.0±.1	35.24S±.02	106.38W±.02	15			

NEIC Mw5.7(HRVD).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c98; Half duration: 1ŝ7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.81±.05; $M_{\theta\theta}$0.30±.06; $M_{\phi\phi}$0.51±.05; $M_{r\theta}$−0.86±.16; $M_{r\phi}$0.52±.17; $M_{\theta\phi}$−3.42±.05. Principal Axes: T 4.03,Plg11°,Azm226°; N −0.98,Plg77°,Azm77°; P −3.05,Plg7°,Azm317°. Best double couple: $M_0$3.5×10^{17}Nm, NP1: ϕ_S2°,δ77°,λ3°. NP2:ϕ_S271°,δ87°,λ167°.

(221) Kuril Islands

ISC	**X**	**05 03 28 58.9**±.47	**45.44N**±.030	**151.08E**±.036	**55**±4.2	**5.6b,4.8s**	**558**	**2-153**
BJI	X	05 03 28 59.2	45.64N	150.76E	44	5.7b,4.8s		**¶97x0789**
JMA	X	05 03 28 59.3±.3	45.60N±.03	151.29E±.04	54	5.3		
NEIC	X	05 03 29 00.9	45.51N	151.07E	71	5.5b		
SKHL	X	05 03 29 01.0	45.60N±.10	151.20E±.05	70±5			
HRVD	X	05 03 29 01.6±.2	45.43N±.02	151.16E±.04	84±2.8			
MOS	X	05 03 29 01.9	45.8N	151.0E	70	6.2b		
EIDC	X	05 03 29 02.3	45.6N	150.9E	74	5.0b,4.6s		

NEIC Mw5.5(HRVD).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c89; Half duration: 1ŝ3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.31±.04; $M_{\theta\theta}$0.19±.06; $M_{\phi\phi}$0.11±.06; $M_{r\theta}$1.17±.04; $M_{r\phi}$1.19±.04; $M_{\theta\phi}$−0.31±.06. Principal Axes: T 1.44,Plg44°,Azm317°; N 0.46, Plg2°,Azm225°; P −1.90,Plg46°,Azm134°. Best double couple: $M_0$1.7×10^{17}Nm, NP1:ϕ_S98°, δ2°,λ−37°. NP2:ϕ_S225°,δ89°,λ−92°.

(76) Off coast of Central America

ISC	**X**	**05 09 45 35.2**±.55	**11.91N**±.048	**88.12W**±.044	**38**±5.0	**5.0b,4.5s**	**182**	**2-165**
HRVD	X	05 09 45 35.0±.4	11.71N±.05	88.67W±.05	16±2.2			**¶97x0845**
EIDC	X	05 09 45 36.4	12.0N	88.1W	38	4.7b,4.5s		
BJI	X	05 09 45 37.9	11.80N	88.00W	72	5.6s		
NEIC	X	05 09 45 37.9	11.83N	88.05W	72	5.1b		

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c63; Half duration: 1ŝ1. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.12±.05; $M_{\theta\theta}$0.89±.05; $M_{\phi\phi}$0.24±.07; $M_{r\theta}$−0.23±.18; $M_{r\phi}$0.06±.16; $M_{\theta\phi}$−0.56±.04. Principal Axes: T 1.23,Plg6°,Azm210°; N −0.08, Plg3°,Azm120°; P −1.15,Plg84°,Azm1°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S303°, δ40°,λ−85°. NP2:ϕ_S117°,δ51°,λ−94°.

NEIC Mw5.4(HRV)

NEIC Felt I=II MM at San Salvador, El Salvador.

(248) Philippine Islands region

ISC	**X**	**06 03 08 13.8**±.63	**10.18N**±.025	**126.10E**±.040	**59**±5.6	**5.3b,4.7s**	**247**	**1-172**
BJI	X	06 03 08 13.1	10.03N	125.99E	67	5.4b,4.6s		**¶97x0974**
NEIC	X	06 03 08 14.5	10.16N	126.10E	66	5.4b		
MOS	X	06 03 08 15.4	10.4N	125.9E	64	5.8b		
HRVD	X	06 03 08 15.8±.4	9.81N±.04	126.46E±.04	42			
EIDC	X	06 03 08 16.6	10.1N	126.2E	71	4.9b		

NEIC Mw5.3(HRV)

NEIC Felt I=III RF at Surigao, Mindanao; II RF at Palo, Leyte and Lapu-Lapu, Mactan. Mo=4.1×10^{17}Nm (PPT).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c62; Mantle waves: s1,c1; Half duration: 1ŝ1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.95±.29; $M_{\theta\theta}$1.68±.48; $M_{\phi\phi}$−9.63±.58; $M_{r\theta}$4.70±.66; $M_{r\phi}$2.87±.63; $M_{\theta\phi}$−2.38±.33. Principal Axes: T 10.6,Plg63°,Azm351°; N 0.3,Plg24°,Azm201°; P −10.9,Plg12°,Azm105°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S168°,δ39°,λ50°. NP2:ϕ_S35°,δ61°,λ118°.

(174) Tonga region

ISC	**X**	**06 18 33 26**±3.1	**22.7S**±.11	**175.92W**±.098	**36**±27	**4.8b**,5.5s	**82**	**7-162**
BJI	X	06 18 33 06.0	22.70S	175.80W	33	5.6b,5.4s		**¶97x1098**
EIDC	X	06 18 33 22.3	22.6S	175.7W	0	4.7b,5.2L		
NEIC	X	06 18 33 26.0	22.71S	175.80W	33	4.9b		

NEIC Less reliable solution.

(193) Solomon Islands

ISC	**X**	**06 18 35 27**±4.4	**9.29S**±.067	**158.83E**±.068	**9**±27	**5.0b,5.0s**	**74**	**1-146**
EIDC	X	06 18 35 26.8	9.4S	159.0E	0	4.7b,4.0L		**¶97x1099**
MOS	X	06 18 35 29.8	9.3S	158.9E	33	5.6b,4.9s		
BJI	X	06 18 35 30.2	8.92S	158.89E	22	5.1b,5.2s		
NEIC	X	06 18 35 30.3	9.32S	158.82E	33	5.3b,5.0s		
HRVD	X	06 18 35 32.9±.3	9.65S±.03	158.90E±.03	43±3.2			

NEIC Mw5.6(HRV). Felt.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c77; Half duration: 1ŝ4. Moment tensor: Scale 10^{17}Nm; M_{rr}0.73±.05; $M_{\theta\theta}$0.61±.08; $M_{\phi\phi}$−1.34±.09; $M_{r\theta}$0.82±.11; $M_{r\phi}$0.26±.09; $M_{\theta\phi}$2.08±.05. Principal Axes: T 2.36,Plg27°,Azm329°; N 0.31, Plg63°,Azm139°; P −2.68,Plg4°,Azm237°. Best double couple: $M_0$2.5×10^{17}Nm, NP1:ϕ_S9°, δ68°,λ163°. NP2:ϕ_S106°,δ74°,λ23°.

HNR Felt at Honiara

(193) Solomon Islands

ISC	**X**	**06 19 08 04**±2.9	**9.30S**±.051	**158.82E**±.062	**29**±21	**5.2b,4.9s**	**125**	**1-164**
BJI	X	06 19 08 04.4	8.93S	158.89E	22	5.5b,5.1s		**¶97x1104**
MOS	X	06 19 08 04.9	9.3S	158.8E	33	5.6b		
NEIC	X	06 19 08 05.1	9.32S	158.76E	33	5.3b,4.9s		
HRVD	X	06 19 08 06.4±.4	9.57S±.04	158.76E±.05	40±5.8			
EIDC	X	06 19 08 07.1	9.5S	159.0E	45	4.6b		

NEIC Mw5.4(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c51; Half duration: 1ŝ3. Moment tensor: Scale 10^{17}Nm; M_{rr}0.50±.05; $M_{\theta\theta}$0.17±.07; $M_{\phi\phi}$−0.67±.09; $M_{r\theta}$0.15±.11; $M_{r\phi}$0.12±.10; $M_{\theta\phi}$1.43±.05. Principal Axes: T 1.29,Plg14°,Azm323°; N 0.45, Plg76°,Azm143°; P −1.74,Plg0°,Azm53°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S99°, δ80°,λ10°. NP2:ϕ_S7°,δ80°,λ170°.

(193) Solomon Islands

ISC	**X**	**06 20 52 45.0**±.17	**9.26S**±.036	**158.67E**±.033	**33**	**5.5b,5.8s**	**361**	**1-164**
BJI	X	06 20 52 43.7	8.74S	158.72E	13	5.5b,5.5s		**¶97x1116**
EIDC	X	06 20 52 44.2	9.4S	159.1E	26	4.9b,4.5L		
NEIC	X	06 20 52 44.6	9.30S	158.69E	33	5.7b,5.9s		
MOS	X	06 20 52 45.0	9.2S	158.7E	33	5.8b,5.5s		
HRVD	X	06 20 52 50.1±.1	9.56S±.01	159.10E±.01	32±.7			

NEIC Mw6.1(HRV), Mw6.0(GS). Felt.

NEIC Felt at Honiara.

NEIC Moment tensor solution: s20, scale 10^{18}Nm; M_{rr}0.12; $M_{\theta\theta}$0.33; $M_{\phi\phi}$−0.45; $M_{r\theta}$0.68; $M_{r\phi}$0.15; $M_{\theta\phi}$1.05. Depth 20km; Principal axes: T 1.39,Plg27°,Azm328°; N −0.15,Plg59°,Azm119°; P −1.24,Plg13°,Azm232°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S7°,δ61°,λ169°. NP2: ϕ_S102°,δ80°,λ29°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c119; Mantle waves: s54,c97; Half duration: 2ŝ8. Moment tensor: Scale 10^{18}Nm; M_{rr}0.73±.01; $M_{\theta\theta}$−0.07±.01; $M_{\phi\phi}$−0.66±.01; $M_{r\theta}$0.41±.03; $M_{r\phi}$0.25±.03; $M_{\theta\phi}$1.48±.01. Principal Axes: T 1.45,Plg33°,Azm321°; N 0.42,Plg57°,Azm138°; P −1.88,Plg2°,Azm230°. Best double couple: $M_0$1.7×10^{18}Nm, NP1:ϕ_S1°,δ66°,λ156°. NP2:ϕ_S101°,δ68°,λ26°.

(381) Central Italy

ISC	**X**	**06 23 24 52.1**±.51	**43.05N**±.014	**12.83E**±.014	**4**±3.6	**5.2b,5.3s**	**535**	**0-150**
LDG	X	06 23 24 51.2	42.9N	13.2E		5.1L		**¶97x1132**
ROM	X	06 23 24 51.5	43.0N	12.9E	3	5.4D		
LEDBW	X	06 23 24 51.6	42.49N	13.55E	10	5.3L		
BJI	X	06 23 24 52.4	42.95N	12.76E	12	5.4b,5.7s		
NEIC	X	06 23 24 52.5	43.05N	12.84E	10	5.3b,5.2s		
EIDC	X	06 23 24 52.5	43.0N	12.9E	0	4.9b,5.3s		
MOS	X	06 23 24 52.6	43.0N	12.8E	10	5.9b,5.2s		
STR	X	06 23 24 57.5	43.17N	12.64E	10	5.6L		
HRVD	X	06 23 24 58.1±.4	42.90N±.06	12.55E±.09	15			
PDG	X	06 23 25 04.6	42.8N	14.0E	15	5.2L,5.2D		

NEIC ML5.8(VIE), Mw5.5(HRV). Casualties I=VIII MSK.

NEIC ML 5.5 (FUR), 5.3 (FBB). Four people injured and additional damage I=VIII MCS in the Assisi, Foligno, Gualdo Tadino and Nocera Umbra areas. Felt from Arezzo to parts of Lazio.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c45; Half duration: 1ŝ4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.52±.10; $M_{\theta\theta}$0.63±.09; $M_{\phi\phi}$0.90±.11; $M_{r\theta}$1.30±.31; $M_{r\phi}$−1.00±.38; $M_{\theta\phi}$−0.98±.12. Principal Axes: T 2.41,Plg22°,Azm46°; N −0.19, Plg7°,Azm313°; P −2.22,Plg67°,Azm207°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S149°,δ23°,λ−73°. NP2:ϕ_S310°,δ68°,λ−97°.

(179) South of Kermadec Islands

ISC	**X**	**07 13 15 53.0**±.26	**32.08S**±.038	**178.32W**±.059	**35**±3.8*	**5.3b,5.5s**	**310**	**3-174**
EIDC	X	07 13 15 49.6	31.7S	177.9W	0	5.0b,4.9L		**¶97x1255**
BJI	X	07 13 15 52.7	31.51S	177.80W	39	5.5b,5.5s		
NEIC	X	07 13 15 53.3	31.85S	178.32W	33	5.5b,5.6s		
MOS	X	07 13 15 53.7	31.6S	178.1W	33	6.2b,5.6s		
HRVD	X	07 13 15 56.8±.1	31.58S±.02	177.71W±.02	21±1.0			

NEIC Mw5.9(HRV).

NEIC Mo=1.1×10^{18}Nm (PPT).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s48,c113; Half duration: 2ŝ1. Moment tensor: Scale 10^{17}Nm; M_{rr}5.13±.07; $M_{\theta\theta}$0.64±.09; $M_{\phi\phi}$−5.77±.10; $M_{r\theta}$1.52±.17; $M_{r\phi}$3.26±.25; $M_{\theta\phi}$−1.56±.08. Principal Axes: T 6.24,Plg72°,Azm310°; N 0.91, Plg7°,Azm197°; P −7.14,Plg16°,Azm104°. Best double couple: $M_0$6.7×10^{17}Nm, NP1: ϕ_S184°,δ30°,λ75°. NP2:ϕ_S20°,δ61°,λ98°.

(413) South-west of Africa

ISC	**X**	**07 17 53 32.2**±.34	**52.14S**±.054	**14.9E**±.13	**10**	**5.1b,5.1s**	**128**	**19-164**
BJI	X	07 17 53 32.2	52.10S	15.20E	10	5.5s		**¶97x1283**
NEIC	X	07 17 53 32.2	52.12S	15.17E	10	5.3b,5.0s		
MOS	X	07 17 53 32.6	52.2S	15.3E	10	5.6b		
HRVD	X	07 17 53 36.0±.3	52.14S±.03	16.00E±.07	15			
EIDC	X	07 17 53 36.8	52.2S	15.4E	26	4.8b		

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c69; Half duration: 1ŝ3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.77±.05; $M_{\theta\theta}$1.56±.05; $M_{\phi\phi}$0.21±.06; $M_{r\theta}$0.01±.17; $M_{r\phi}$0.50±.18; $M_{\theta\phi}$−0.04±.05. Principal Axes: T 1.56,Plg0°,Azm182°; N 0.33, Plg13°,Azm272°; P −1.89,Plg77°,Azm92°. Best double couple: $M_0$1.7×10^{17}Nm, NP1: ϕ_S259°,δ47°,λ−109°. NP2:ϕ_S105°,δ47°,λ−71°.

(196) West Irian region

ISC	**X**	**07 21 50 24**±2.6	**3.41S**±.033	**131.01E**±.036	**13**±16	**5.1b,4.7s**	**131**	**3-161**
EIDC	X	07 21 50 23.8	3.4S	130.9E	0	4.9b,4.7s		**¶97x1306**
NEIC	X	07 21 50 26.3	3.42S	131.02E	33	5.3b,4.7s		
MOS	X	07 21 50 26.6	3.4S	131.0E	33	5.7b		
HRVD	X	07 21 50 26.8±.6	3.21S±.05	130.84E±.07	29±4.7			
BJI	X	07 21 50 27.3	3.70S	131.41E	64	5.2b,4.8s		

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c44; Half duration: 1ŝ1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.91±.51; $M_{\theta\theta}$−4.34±.51; $M_{\phi\phi}$−3.57±.79; $M_{r\theta}$−2.68±1.67; $M_{r\phi}$7.15±1.45; $M_{\theta\phi}$4.15±.52. Principal Axes: T 11.4,Plg65°,Azm264°; N −0.6,Plg13°,Azm145°; P −10.8,Plg21°,Azm49°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S117°,δ27°,λ60°. NP2:ϕ_S330°,δ67°,λ104°.

(224) Hokkaido region

ISC	**X**	**08 21 20 57.7**±.86	**41.92N**±.024	**144.84E**±.031	**17**±5.8	**5.5b,5.7s**	**573**	**1-154**
JMA	X	08 21 20 57.8±.4	41.89N±.02	145.05E±.03	41	5.6		**¶97x1480**
BJI	X	08 21 20 58.6	41.93N	144.41E	10	5.7b,6.1s		
SKHL	X	08 21 20 59.0	41.9N±.14	144.8E±.24	28±3			
NEIC	X	08 21 20 59.7	41.91N	144.82E	33	5.5b,5.6s		
HRVD	X	08 21 20 59.9±.2	41.76N±.02	145.44E±.03	16			
MOS	X	08 21 21 01.1	42.2N	144.8E	33	6.0b,6.1s		
EIDC	X	08 21 21 03.0	42.0N	144.7E	49	4.8b		

JMA Felt I=II J1

NEIC Mw5.9(GS), Me5.8(GS). Felt I=III MM.

NEIC Radiated energy from the P−wave first−motion solution: 1.0±0.3×10^{13}Nm/8

NEIC Mw 5.9 (HRV). Felt I=II J in southeastern Hokkaido and I J in Aomori Prefecture, Honshu.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S15°,δ70°,λ60°. NP2:ϕ_S254°,δ36°,λ144°. Principal axes: T Plg55°,Azm247°; P Plg19°,Azm127°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s34, scale 10^{17}Nm; M_{rr}1.01; $M_{\theta\theta}$−0.37; $M_{\phi\phi}$−0.64; $M_{r\theta}$3.26; $M_{r\phi}$6.19; $M_{\theta\phi}$−1.40. Depth 15km; Principal axes: T 6.80,Plg50°,Azm291°; N 0.72,Plg5°, Azm28°; P −7.52,Plg39°,Azm122°. Best double couple: $M_0$7.2×10^{17}Nm; NP1:ϕ_S253°,δ8°, λ135°. NP2:ϕ_S27°,δ84°,λ84°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c93; Mantle waves: s9,c15; Half duration: 2ŝ1. Moment tensor: Scale 10^{17}Nm; M_{rr}3.39±.07; $M_{\theta\theta}$−1.00±.07; $M_{\phi\phi}$−2.39±.11; $M_{r\theta}$2.43±.20; $M_{r\phi}$6.06±.20; $M_{\theta\phi}$−2.65±.08. Principal Axes: T 7.27,Plg59°,Azm280°; N 0.74,Plg10°,Azm26°; P −8.01,Plg29°,Azm121°. Best double couple: $M_0$7.6×10^{17}Nm, NP1:ϕ_S238°,δ18°,λ123°. NP2:ϕ_S23°,δ75°,λ80°.

(224) Hokkaido region

ISC	**X**	**09 03 29 13.0**±.71	**42.15N**±.051	**144.53E**±.053	**50**±4.8	**4.9b,5.0s**	**208**	**1-151**
EIDC	X	09 03 29 07.6	42.1N	144.5E	0	4.4b,4.8s		**¶97x1514**
JMA	X	09 03 29 07.7±.2	41.90N±.02	145.00E±.02	44	5.1		
HRVD	X	09 03 29 07.7±1.2	41.71N±.08	145.58E±.11	15			
SKHL	X	09 03 29 09.0	42.0N±.05	145.0E±.13	35±3			
NEIC	X	09 03 29 10.7	42.13N	144.44E	33	5.1b,4.8s		
MOS	X	09 03 29 10.8	42.0N	144.5E	33	5.6b,5.0s		
BJI	X	09 03 29 11.2	41.97N	144.39E	32	5.1b,5.1s		

JMA Felt I=II J1

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c37; Half duration: 1ŝ1. Moment tensor: Scale 10^{16}Nm; M_{rr}4.89±.39; $M_{\theta\theta}$−1.54±.34; $M_{\phi\phi}$−3.35±.46; $M_{r\theta}$2.47±1.34; $M_{r\phi}$9.77±1.26; $M_{\theta\phi}$−3.91±.47. Principal Axes: T 11.4,Plg56°,Azm270°; N 0.5, Plg13°,Azm20°; P −11.9,Plg30°,Azm118°. Best double couple: $M_0$1.2×10^{17}Nm, NP1: ϕ_S243°,δ19°,λ134°. NP2:ϕ_S17°,δ77°,λ77°.

SKHL K11.5

NEIC Mw5.4(HRV). Felt I=III MM.

NEIC Felt I=II J1 in south-central Hokkaido.

(224) Hokkaido region

ISC	**X**	**09 04 00 49**±1.0	**41.92N**±.035	**144.83E**±.038	**18**±6.6	**5.2b,5.1s**	**322**	**1-154**
EIDC	X	09 04 00 46.8	42.0N	144.8E	0	4.7b,5.0s		**¶97x1519**
JMA	X	09 04 00 48.8±.2	41.90N±.01	144.97E±.02	40	5.0		
SKHL	X	09 04 00 49.0	42.0N±.10	144.9E±.05	33±4			
BJI	X	09 04 00 50.1	42.01N	144.44E	17	5.4b,5.3s		
HRVD	X	09 04 00 50.4±.6	41.64N±.07	145.39E±.10	15±3.2			
NEIC	X	09 04 00 50.4	41.92N	144.75E	33	5.3b,5.0s		
MOS	X	09 04 00 50.9	42.0N	144.8E	33	5.9b,5.1s		

JMA Felt I=II J1

SKHL K11.5

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c51; Half duration: 1ŝ2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.79±.05; $M_{\theta\theta}$−0.35±.04; $M_{\phi\phi}$−0.44±.07; $M_{r\theta}$0.33±.17; $M_{r\phi}$1.62±.42; $M_{\theta\phi}$−0.28±.05. Principal Axes: T 1.91,Plg56°,Azm275°; N −0.22,

Plg7°,Azm16°; P −1.69,Plg33°,Azm111°. Best double couple: $M_0$1.8×10^{17}Nm, NP1:ϕ_S229°, δ14°,λ123°. NP2:ϕ_S14°,δ79°,λ82°.

NEIC Mw5.5(HRV)

NEIC Felt I=II J1 in south eastern Hokkaido.

(223) Eastern Sea of Japan

ISC	**X**	**09 20 42 00.2**±.73	**41.99N**±.033	**138.93E**±.032	**16**±5.5	**5.2b,5.1s**	**275**	**0-153**
JMA	X	09 20 42 00.1±.2	41.89N±.01	138.93E±.02	38±3	5.1		¶97x1639
BJI	X	09 20 42 01.8	42.16N	139.15E	48	5.0b,5.4s		
NEIC	X	09 20 42 02.2	41.98N	138.86E	33	5.2b,4.8s		
MOS	X	09 20 42 02.8	42.0N	138.7E	33	5.6b,5.3s		
EIDC	X	09 20 42 03.6	42.0N	138.9E	30	4.4b,4.0L		
HRVD	X	09 20 42 05.1±.3	41.95N±.03	138.78E±.04	42±2.3			

JMA Felt I=III J1

NEIC Mw5.5(HRV)

NEIC Felt I=III J1 on Okushiri; II J1 in Aomori Prefecture, Honshu and south western Hokkaido.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c52; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.64±.04; $M_{\theta\theta}$0.01±.05; $M_{\phi\phi}$−1.65±.06; $M_{r\theta}$−0.19±.09; $M_{r\phi}$−0.51±.11; $M_{\theta\phi}$−0.38±.06. Principal Axes: T 1.73,Plg81°,Azm119°; N 0.09,Plg3°,Azm13°; P −1.82,Plg9°,Azm282°. Best double couple: $M_0$1.8×10^{17}Nm, NP1:ϕ_S9°,δ36°,λ86°. NP2:ϕ_S195°,δ54°,λ93°.

(262) Celebes Sea

ISC	**X**	**10 17 48 42.1**±.78	**4.37N**±.030	**124.90E**±.049	**47**±7.5	**4.9b,4.4s**	**121**	**3-167**
MOS	X	10 17 48 40.1	4.5N	125.0E	33	5.5b		¶97x1785
NEIC	X	10 17 48 40.7	4.37N	124.95E	33	5.0b		
KLM	X	10 17 48 41	4.3N	124.9E	33	4.4L		
BJI	X	10 17 48 41.0	4.54N	125.65E	45	5.0b,5.0s		
EIDC	X	10 17 48 44.6	4.3N	124.8E	54	4.6b,3.9s		

KLM Mb5.0

(193) Solomon Islands

ISC	**X**	**10 18 45 49**±3.7	**9.29S**±.041	**158.75E**±.036	**12**±22	**5.4b,5.6s**	**286**	**1-165**
EIDC	X	10 18 45 48.8	9.3S	158.8E	0	5.2b,5.6s		¶97x1789
BJI	X	10 18 45 51.9	8.76S	158.86E	20	5.5b,5.6s		
NEIC	X	10 18 45 52.4	9.32S	158.73E	33	5.4b,5.7s		
MOS	X	10 18 45 52.9	9.2S	158.7E	33	5.6b,5.6s		
HRVD	X	10 18 45 56.2±.1	9.62S±.02	158.99E±.01	25			

NEIC Mw6.0(HRV), Mw5.8(GS)

NEIC Moment tensor solution: s14, scale 10^{17}Nm; M_{rr}4.55; $M_{\theta\theta}$−3.10; $M_{\phi\phi}$−1.45; $M_{r\theta}$2.48; $M_{r\phi}$1.81; $M_{\theta\phi}$4.19. Depth 24km; Principal axes: T 6.54,Plg57°,Azm315°; N 0.07,Plg33°, Azm125°; P −6.61,Plg4°,Azm218°. Best double couple: $M_0$6.6×10^{17}Nm; NP1:ϕ_S338°,δ50°, λ135°. NP2:ϕ_S101°,δ57°,λ50°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s50,c97; Mantle waves: s9,c14; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}4.38±.08; $M_{\theta\theta}$−0.56±.11; $M_{\phi\phi}$−3.82±.12; $M_{r\theta}$5.22±.20; $M_{r\phi}$1.50±.24; $M_{\theta\phi}$7.23±.09. Principal Axes: T 9.93,Plg43°,Azm327°; N 0.02,Plg45°,Azm129°; P −9.95,Plg9°,Azm228°. Best double couple: $M_0$9.9×10^{17}Nm, NP1:ϕ_S358°,δ53°,λ153°. NP2:ϕ_S105°,δ68°,λ40°.

HNR Felt I=VI MM Honiara

(230) Near south coast of Honshū

ISC	**X**	**11 05 44 35.7**±.42	**34.40N**±.030	**138.19E**±.030	**27**±2.9	**5.1b,4.8s**	**242**	**0-161**
NEIC	X	11 05 44 35.5	34.38N	138.15E	28	5.2b,4.5s		¶97x1856
JMA	X	11 05 44 35.6±.1	34.42N±.01	138.23E±.01	36±2	4.9		
BJI	X	11 05 44 36.5	34.40N	138.10E	27	4.9b,5.0s		
EIDC	X	11 05 44 37.0	34.4N	138.1E	24	4.7b,4.5s		
MOS	X	11 05 44 37.8	34.7N	138.2E	33	5.5b,5.0s		
HRVD	X	11 05 44 39.5±.6	34.51N±.10	138.34E±.12	27±7.7			

NEIC Mw5.2(HRV).

JMA Felt I=III J1

JMA Nodal plane solution: N149, Score 93%. NP1:ϕ_S261°,δ57°,λ−40°. NP2:ϕ_S17°,δ57°,λ−139°. Principle axes: T Plg0°,Azm139°; N Plg39°,Azm49°; P Plg51°,Azm229°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c29; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.88±.36; $M_{\theta\theta}$−1.59±.52; $M_{\phi\phi}$−2.29±.65; $M_{r\theta}$6.32±1.71; $M_{r\phi}$−3.15±1.62; $M_{\theta\phi}$0.78±.40. Principal Axes: T 8.51,Plg57°,Azm22°; N −1.47,Plg5°,Azm121°; P −7.03,Plg33°,Azm214°. Best double couple: $M_0$7.8×10^{16}Nm, NP1: ϕ_S325°,δ13°,λ114°. NP2:ϕ_S120°,δ78°,λ84°.

(228) Near east coast of Honshū

ISC	**X**	**11 09 45 31.6**±.45	**38.84N**±.028	**141.98E**±.042	**52**±3.6	**5.3b,4.7s**	**323**	**0-155**
BJI	X	11 09 45 29.4	38.80N	142.01E	43	5.5b,4.7s		¶97x1874
JMA	X	11 09 45 30.3±.1	38.87N±.00	142.18E±.02	54±2	5.1		
MOS	X	11 09 45 31.3	39.1N	141.9E	37	5.8b,4.7s		
EIDC	X	11 09 45 31.3	38.9N	142.0E	37	4.7b,5.1L		
NEIC	X	11 09 45 31.4	38.86N	142.05E	52	5.3b,4.6s		
HRVD	X	11 09 45 34.1±.5	38.70N±.06	142.07E±.07	34±3.9			

JMA Felt I=III J1

NEIC Mw5.4(HRV). Felt I=V MM.

NEIC Felt I=III J1 in northeastern Miyagi and southeastern Iwate Prefectures. Felt II J1 in southeastern Aomori and north-central Miyagi Prefectures. Also felt II J1 in other parts of Iwate Prefecture.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c32; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.59±.41; $M_{\theta\theta}$0.20±.49; $M_{\phi\phi}$−5.78±.55; $M_{r\theta}$4.21±.93; $M_{r\phi}$8.57±1.08; $M_{\theta\phi}$−4.51±.56. Principal Axes: T 10.5,Plg63°,Azm293°; N 2.6, Plg2°,Azm27°; P −13.1,Plg27°,Azm118°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S212°, δ18°,λ95°. NP2:ϕ_S26°,δ72°,λ88°.

(224) Hokkaido region

ISC	**X**	**11 19 39 43**±1.0	**41.97N**±.033	**144.90E**±.038	**18**±6.6	**5.3b,5.0s**	**352**	**1-153**
EIDC	X	11 19 39 41.2	42.0N	144.8E	0	4.9b,4.8s		¶97x1929
JMA	X	11 19 39 43.2±.3	41.95N±.02	145.03E±.02	43	5.1		
BJI	X	11 19 39 43.7	42.02N	144.45E	11	5.6b,5.2s		
SKHL	X	11 19 39 44.0	42.0N±.10	144.9E±.05	30±4			
NEIC	X	11 19 39 44.5	41.95N	144.83E	33	5.3b,4.8s		
HRVD	X	11 19 39 44.9±.7	41.73N±.06	145.60E±.09	31±3.6			
MOS	X	11 19 39 46.3	42.4N	144.9E	32	5.8b,5.3s		

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c40; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}6.50±.39; $M_{\theta\theta}$−1.91±.39; $M_{\phi\phi}$−4.59±.51; $M_{r\theta}$1.65±.92; $M_{r\phi}$5.11±.94; $M_{\theta\phi}$−3.44±.46. Principal Axes: T 8.50,Plg69°,Azm275°; N 0.22, Plg9°,Azm28°; P −8.72,Plg19°,Azm121°. Best double couple: $M_0$8.6×10^{16}Nm, NP1:ϕ_S225°, δ27°,λ109°. NP2:ϕ_S24°,δ64°,λ80°.

(116) Peru

ISC	**X**	**12 05 55 31**±1.2	**10.82S**±.081	**74.20W**±.078	**49**±13	**4.4b,4.1s**	**73**	**3-171**
EIDC	X	12 05 55 25.3	10.9S	74.3W	0	4.2b,4.2s		¶97x1997
NEIC	X	12 05 55 28.9	10.84S	74.29W	33	4.8b,4.3s		
BJI	X	12 05 55 33.9	10.80S	74.30W	33	5.8s		

(381) Central Italy

ISC	**X**	**12 11 08 35.7**±.54	**42.90N**±.014	**12.90E**±.014	**4**±3.9	**5.1b,5.0s**	**475**	**0-150**
ROM	X	12 11 08 35.3	42.9N	13.0E	5	4.7D		¶97x2028
BJI	X	12 11 08 36.3	42.73N	12.48E	27	5.3b,5.4s		
NEIC	X	12 11 08 36.3	42.90N	12.90E	10	5.2b,4.9s		
MOS	X	12 11 08 36.5	43.0N	13.0E	10	5.7b,5.0s		
LDG	X	12 11 08 37.6	42.8N	13.1E		5.0L		
HRVD	X	12 11 08 41.6±.5	42.31N±.11	13.29E±.11	15			
PDG	X	12 11 08 41.9	42.7N	13.2E	11	5.1L,5.2D		
EIDC	X	12 11 08 42.5	43.0N	12.9E	38	4.6b,4.6L		
STR	X	12 11 08 45.9	43.22N	12.26E	10	5.2L		

NEIC Mw5.3(HRV), M_L5.3(VIE)

NEIC ML 5.2 (FUR). Additional damage I=VII MCS in the epicentral area.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c30; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.63±.69; $M_{\theta\theta}$0.83±.71; $M_{\phi\phi}$4.79±.55; $M_{r\theta}$5.14±1.88; $M_{r\phi}$0.61±2.09; $M_{\theta\phi}$−4.90±.77. Principal Axes: T 8.55,Plg11°,Azm51°; N 0.58, Plg33°,Azm314°; P −9.13,Plg55°,Azm157°. Best double couple: $M_0$8.8×10^{16}Nm, NP1: ϕ_S175°,δ45°,λ−39°. NP2:ϕ_S295°,δ63°,λ−127°.

(368) Southern Greece

ISC	**X**	**13 13 39 36.0**±.78	**36.35N**±.020	**22.10E**±.014	**13**±4.6	**6.2b,6.5s**	**819**	**1-158**
EIDC	X	13 13 39 34.6	36.5N	22.4E	0	6.1b,6.5s		¶97x2232
BJI	X	13 13 39 36.2	36.39N	22.21E	25	6.3b,6.5s		
NEIC	X	13 13 39 37.4	36.38N	22.07E	24	6.2b,6.6s		
MOS	X	13 13 39 38.5	36.4N	22.1E	33	6.5b,6.4s		
ATH	X	13 13 39 39.2	36.41N	22.18E	6	5.6L		
PDG	X	13 13 39 39.3	36.3N	21.0E	10	6.3D		
THE	X	13 13 39 40.0	36.4N	22.2E	13	5.8L		
CSEM	X	13 13 39 41.9	36.23N	21.95E	30			
HRVD	X	13 13 39 46.6±.1	36.10N±.01	22.04E±.02	44±.7			

NEIC Ms6.7(BRK), Mw6.5(CSEM). Damage.

NEIC Radiated energy from the P−wave first−motion solution: 4.8±0.9×10^{13}Nm/25

NEIC Mw 6.4 (GS), 6.4 (HRV). Me 6.2 (GS). Minor damage in southern Peloponnisos. Felt strongly at Athens. Felt throughout Greece, including Crete.

NEIC Moment tensor solution: s48, scale 10^{18}Nm; M_{rr}2.51; $M_{\theta\theta}$−2.57; $M_{\phi\phi}$0.06; $M_{r\theta}$2.78; $M_{r\phi}$−1.62; $M_{\theta\phi}$0.44. Depth 26km; Principal axes: T 4.16,Plg62°,Azm42°; N −0.08,Plg10°, Azm292°; P −4.08,Plg25°,Azm197°. Best double couple: $M_0$4.1×10^{18}Nm; NP1:ϕ_S264°,δ22°, λ61°. NP2:ϕ_S115°,δ71°,λ101°.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S119°,δ71°,λ80°. NP2:ϕ_S327°,δ21°,λ117°. Principal axes: T Plg63°,Azm13°; P Plg25°,Azm217°. Complex earthquake, with at least three larger events occurring about 1, 3 and 5 seconds after the onset. Depth from synthetics of broadband displacement seismograms based on second event.

ATH Felt in the regions of Messinia, I=VI−VII MCS at Koroni, VI at Vasilitsi, V−VI at Messini, Strephi, Platy, Petalidi, Kampos, Thouria, Avrami, V at Zevgolateio, Kyparissia, Philiatra, Achladochori, Androusa, Vasiliko, Iklaina, Kopanaki, Kremmydi, Maniaki, Medousa, Nea−Koroni, Oichalia, Pyrgos, Pilalistra, Proastio, Sidirokastro, Zerbisia, Psari, Methoni, Eva, Kaplani, IV−V at Pylos, Spilia, Arphara, Ampheia, IV at Gargalianoi, Aetos, Dori, Kephalovryso; in Lakonia, V−VI at Vrondamas, Skala, Stephania, V at Gytheio, Agios−Ioannis, Amykles, Gerolimenas, Elos, Karvelas, Konakia, Oitylos, IV−V at Sparti, Kato−Glykovrysi, Lampokampos, Longastra, Elaia, IV at Molaoi, Velies, Agios−Nikolaos−Voion, Agios−Dimitrios, Megali−Spilia, Anogeia, Vasaras, Vresthena, Geraki, Daimonia, Daphni, Elliniko, Elaphonisos, Kastoreio, Karyes, Loukonikos, Magoula, Mystras, Niata, Xirokampi , Papadianika, Reichea, Sykea, Phoinikio Katavothra, III at Apidea, Kyparrisio; in Arkadia IV at Astros, Megalopoli, Leonidio, Kollines, Kato−Doliana, Dimitsana, Tropaia; in Eleia, IV at Andravida, Zacharo, Krestena, Kardamas, Myrsini, Pelopio, Tragano, Savalia, Chavario, III at Gastouni, Goumero; in Argolida, IV at Nafplio, Kranidi, Ermioni, Arachnaio, Koutsopodi, Nea−Kios, III at Lygourio.

ATH Felt in the regions of Achaia I=IV MCS at Diakophto, Kato−Kleitoria, III at Daphni, Rododaphni, Lakkopetra, Lousika, Chalandritsa, Temeni, Vrachnaika; in Korinthia, IV at Archaia−Korinthos, Xylokastro, Nemea, Isthmia, Chiliomodi, Examilia, Velo, Athikia, III at Zevgolateio; in Aitoloakarnania, IV at Neochori, Astakos, Aitoliko, III at Agrinio, Amphilochia, Panaitolio, Nafpaktos; in Phokida, IV at Chryso, III at Galaxeidi, Desphina, Delphoi; in Boeotia, IV at Thespies, III at Agios−Ioannis, Antikyra; in Attiki, IV at Megara, Kiphisia, III at Athina, Kamatero; in Phthiotida, III at Kamena−Vourla, Agios−Konstantinos; in Karditsa, III at Karditsa, Mataranka, Mouzaki, Agnantero; in Pieria, III at Moschochori; and on the islands of Crete, IV at Khania, Perivoli, Nerokouros, Mournies, Kissamos, Kalyves, Daratsos, III at Souda, Sternes; on Herakleio, III at Tympaki, Nea−Alikarnasos; on Zakynthos, IV at Pantokratoras, Mouzaki; on Euobea, III at Istiaia, Karystos, Kymi, Lythakia; on Kea, III at Kea; on Naxos, III at Naxos.

CSEM Mw6.5. M_0=7.3×10^{18}Nm. Fault plane solution NP1:ϕ_S150°,δ70°,λ105°. NP2:ϕ_S292°,δ25°, λ55°. Principal Axes: T Plg62°,Azm83°; N Plg14°,Azm325°; P Plg24°,Azm228°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c116; Mantle waves: s30,c53; Half duration: 1s0. Moment tensor: Scale 10^{18}Nm; M_{rr}2.90±.04; $M_{\theta\theta}$−2.51±.04; $M_{\phi\phi}$−0.39±.04; $M_{r\theta}$3.36±.08; $M_{r\phi}$−1.84±.08; $M_{\theta\phi}$1.60±.04. Principal Axes: T 4.71,Plg65°,Azm29°; N 0.47,Plg0°,Azm298°; P −5.19,Plg25°,Azm208°. Best double couple: $M_0$4.9×10^{18}Nm, NP1:ϕ_S298°,δ20°,λ89°. NP2:ϕ_S119°,δ70°,λ90°.

(403) North Atlantic Ridge

ISC	**X**	**14 10 41 15.9**±.31	**28.35N**±.065	**43.75W**±.035	**10**	**4.9b**	**126**	**32-171**
NEIC	X	14 10 41 15.7	28.37N	43.77W	10	5.1b		¶97x2380
EIDC	X	14 10 41 19.0	28.3N	43.8W	20	4.5b		
MOS	X	14 10 41 23.6	29.2N	42.9W	10	5.5b		

(381) Central Italy

ISC	**X**	**14 15 23 09.3**±.53	**42.95N**±.013	**12.90E**±.014	**3**±3.7	**5.3b,5.6s**	**570**	**0-150**
LEDBW	X	14 15 23 08.6	42.21N	13.27E	10	5.3L		¶97x2426
ROM	X	14 15 23 09.1	42.9N	13.0E	5	5.5D		
EIDC	X	14 15 23 09.8	42.9N	12.9E	0	5.0b,5.6s		
BJI	X	14 15 23 09.9	43.21N	12.88E	8	5.5b,6.0s		
MOS	X	14 15 23 10.2	43.0N	12.9E	10	5.9b,5.6s		
NEIC	X	14 15 23 10.2	42.96N	12.89E	10	5.4b,5.5s		
LDG	X	14 15 23 11.2	42.9N	13.1E		5.3L		
PDG	X	14 15 23 15.1	42.8N	13.2E	12	5.4D		
STR	X	14 15 23 17.3	43.22N	12.51E	10	5.5L		

NEIC M_L5.7(VIE), M_L5.6(FUR). Casualties

NEIC One person injured and additional damage I=VIII MCS in the Assisi-Perugia-Foligno area. Slight damage at Rome. Felt as far south as Naples.

(135) Near coast of Central Chile

ISC	**X**	**15 01 03 33.0**±.47	**30.89S**±.025	**71.14W**±.035	**54**±4.5	**6.7b,6.8s**	**738**	**2-177**
EIDC	X	15 01 03 26.8	30.9S	71.1W	0	6.4b,7.2s		¶97x2523
GUC	X	15 01 03 31.3	30.77S	71.32W	56	6.8D		
BJI	X	15 01 03 33.4	30.90S	71.20W	58	7.4s		
NEIC	X	15 01 03 33.4	30.93S	71.22W	58	6.8b,6.8s		
MOS	X	15 01 03 34.5	30.9S	71.0W	60	7.0b		
HRVD	X	15 01 03 42.6±.1	31.06S±.01	71.42W±.01	70±.5			

NEIC Me7.6(GS), Mw7.1(GS). Casualties I=VII MM, landslide/avalanche observed.

NEIC Radiated energy from the P−wave first−motion solution: 5.3±1.5×10^{15}Nm/16

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S175°,δ85°,λ−120°. NP2:ϕ_S76°,δ30°,λ−10°. Principal axes: T Plg33°,Azm290°; P Plg42°,Azm56°. Two events about 5 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event.

NEIC Moment tensor solution: s28, scale 10^{19}Nm; M_{rr}−1.30; $M_{\theta\theta}$−0.29; $M_{\phi\phi}$1.59; $M_{r\theta}$−0.79; $M_{r\phi}$4.55; $M_{\theta\phi}$0.90. Depth 67km; Principal axes: T 4.93,Plg36°,Azm274°; N −0.01,Plg13°, Azm174°; P −4.92,Plg51°,Azm67°. Best double couple: $M_0$4.9×10^{19}Nm; NP1:ϕ_S52°,δ15°, λ−31°. NP2:ϕ_S172°,δ82°,λ−103°.

NEIC Mw 7.1 (HRV). Ms 6.7 (BRK). Five people killed at Pueblo Nuevo, one person killed at Coquimbo, one person killed at La Chimba and another died of a heart attack at Punitaqui. More than 300 people injured, 5,000 houses destroyed, 15,700 houses damaged, numerous power and telephone outages, landslides and rockslides in the epicentral region. Some damage I=VII MM at La Serena and VI MM at Ovalle. Felt VI MM at Alto del Carmen and Illapel; V MM at Copiapo, Huasco, San Antonio, Santiago and Vallenar; IV MM at Caldera, Chanaral, Rancagua and Tierra Amarilla; III MM at Talca; II MM at Concepcion and Taltal. Felt as far south as Valdivia. Felt V MM in

Agency Origin Time φ λ h Mag *n* Δ-Rng
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Mendoza and San Juan Provinces, Argentina. Felt in Buenos Aires, Catamarca, Cordoba and La Rioja Provinces and Distrito Federal, Argentina. Also felt in parts of Bolivia and Peru. Mo=6.6×10^{19}Nm (PPT).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s59,c163; Mantle waves: s60,c155; Half duration: 9s0. Moment tensor: Scale 10^{19}Nm; M_{rr}−1.59±.02; $M_{\theta\theta}$0.17±.01; $M_{\phi\phi}$1.42±.01; $M_{r\theta}$−0.45±.02; $M_{r\phi}$4.59±.03; $M_{\theta\phi}$−0.80±.01. Principal Axes: T 4.92,Plg35°,Azm257°; N 0.00,Plg7°,Azm352°; P −4.91,Plg54°,Azm92°. Best double couple: $M_0$4.9×10^{19}Nm, NP1:ϕ_S315°,δ12°,λ−128°. NP2:ϕ_S173°,δ80°,λ−83°.

(115) Near coast of Peru

ISC	**X**	**15 02 54 19.8**±.93	**16.10S**±.049	**73.60W**±.045	**46**±8.2	**5.7b,6.1s**	**358**	**2-176**
NEIC	X	15 02 54 20.8	16.12S	73.59W	56	5.7b		**¶97x2545**
BJI	X	15 02 54 21.0	15.64S	73.66W	38	7.0s		
MOS	X	15 02 54 21.2	15.8S	73.6W	47	6.0b		
EIDC	X	15 02 54 24.6	16.0S	73.6W	76	5.2b,6.0s		

NEIC Felt I=III at Arequipa.

(7) Andreanof Islands

ISC	**X**	**15 03 11 12.2**±.88	**51.42N**±.038	**177.85W**±.034	**46**±7.6	**5.5b,6.1s**	**557**	**1-160**
MOS	X	15 03 11 08.4	51.3N	177.9W	20	5.6b,6.1s		**¶97x2553**
BJI	X	15 03 11 08.4	51.98N	178.01W	11	5.6b,6.2s		
NEIC	X	15 03 11 09.0	51.43N	177.88W	22	5.7b,6.1s		
EIDC	X	15 03 11 09.2	51.4N	177.6W	18	4.7b,6.0s		
HRVD	X	15 03 11 15.6±.7	51.45N±.06	176.66W±.11	15			

NEIC Mw6.4(HRV), M_L5.6(PMR)

NEIC Felt I=III MM on Adak.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c67; Mantle waves: s23,c29; Half duration: 3s7. Moment tensor: Scale 10^{18}Nm; M_{rr}1.85±.17; $M_{\theta\theta}$−1.49±.14; $M_{\phi\phi}$−0.36±.19; $M_{r\theta}$4.14±.54; $M_{r\phi}$1.04±.58; $M_{\theta\phi}$−1.94±.17. Principal Axes: T 4.66,Plg55°,Azm5°; N 0.61,Plg16°,Azm251°; P −5.26,Plg30°,Azm152°. Best double couple: $M_0$5.0×10^{18}Nm, NP1:ϕ_S203°,δ21°,λ40°. NP2:ϕ_S75°,δ77°,λ106°.

(277) Java

ISC	**X**	**15 06 03 32.3**±.85	**6.59S**±.057	**107.01E**±.044	**11**±6.2	**4.6b**	**47**	**0-157**
DJA	X	15 06 03 32.3	6.6S	107.0E	16	5.6b,4.7D		**¶97x2574**
NEIC	X	15 06 03 32.7	6.64S	107.02E	10	4.7b		
EIDC	X	15 06 03 32.8	6.5S	107.1E	0	4.6b		
BJI	X	15 06 03 33.7	6.60S	107.00E	10			

NEIC Felt I=III MM at Bandung and II MM at Jakarta.

(701) West of Macquarie Island

ISC	**X**	**17 09 55 17.7**±.45	**57.27S**±.061	**148.0E**±.13	**10**	**5.0b,5.9s**	**251**	**7-160**
NEIC	X	17 09 55 15.2	57.54S	147.97E	10	5.2b,5.9s		**¶97x2957**
EIDC	X	17 09 55 15.4	57.5S	148.1E	0	4.6b,5.9s		
BJI	X	17 09 55 16.3	57.36S	148.47E	5	5.4b,6.1s		
HRVD	X	17 09 55 25.3±.1	57.68S±.01	148.03E±.02	15			

NEIC Mw6.2(GS), Mw6.2(HRV).

NEIC Mo=1.7×10^{18}Nm (PPT).

NEIC Moment tensor solution: s11, scale 10^{18}Nm; M_{rr}−0.02; $M_{\theta\theta}$1.04; $M_{\phi\phi}$−1.02; $M_{r\theta}$−0.25; $M_{r\phi}$0.13; $M_{\theta\phi}$−1.70. Depth 12km; Principal axes: T 2.04,Plg8°,Azm209°; N −0.06,Plg82°, Azm32°; P −1.98,Plg0°,Azm299°. Best double couple: $M_0$2.0×10^{18}Nm; NP1:ϕ_S345°,δ84°, λ5°. NP2:ϕ_S254°,δ85°,λ174°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c132; Mantle waves: s52,c99; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.13±.01; $M_{\theta\theta}$1.07±.01; $M_{\phi\phi}$−0.94±.01; $M_{r\theta}$0.23±.05; $M_{r\phi}$−0.07±.05; $M_{\theta\phi}$−1.84±.01. Principal Axes: T 2.18,Plg6°,Azm31°; N −0.16,Plg84°,Azm227°; P −2.03,Plg2°,Azm121°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S166°,δ85°,λ3°. NP2:ϕ_S76°,δ87°,λ175°.

(268) Sulawesi (Celebes)

ISC	**X**	**17 12 08 00.4**±.88	**3.88S**±.034	**119.66E**±.042	**30**±6.9	**4.7b,4.4s**	**96**	**1-159**
EIDC	X	17 12 07 57.1	3.8S	119.7E	0	4.7b,4.1s		**¶97x2982**
BJI	X	17 12 07 59.9	3.90S	119.60E	28	5.2b,4.9s		
NEIC	X	17 12 07 59.9	3.87S	119.64E	28	4.8b		
MOS	X	17 12 08 07.8	2.6S	119.5E	33	5.6b		

(269) Molucca Sea

ISC	**X**	**18 02 40 06.4**±.63	**0.93S**±.025	**124.08E**±.029	**56**±6.2	**5.3b,5.0s**	**264**	**2-162**
EIDC	X	18 02 40 00.2	0.9S	124.0E	0	5.2b,4.9s		**¶97x3088**
BJI	X	18 02 40 02.2	1.27S	124.37E	46	5.3b,5.0s		
NEIC	X	18 02 40 04.6	0.90S	124.07E	36	5.5b,5.0s		
KLM	X	18 02 40 05	0.9S	124.1E	36	5.1L		
MOS	X	18 02 40 05.8	0.8S	124.1E	49	5.7b,4.8s		
HRVD	X	18 02 40 06.2±.5	1.19S±.04	124.61E±.03	35±3.8			

NEIC Mw5.5(HRV).

KLM Mb5.5

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c58; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.18±.06; $M_{\theta\theta}$1.73±.08; $M_{\phi\phi}$−1.90±.09; $M_{r\theta}$−0.38±.17; $M_{r\phi}$−0.01±.12; $M_{\theta\phi}$1.40±.07. Principal Axes: T 2.27,Plg10°,Azm161°; N 0.12, Plg80°,Azm327°; P −2.39,Plg3°,Azm71°. Best double couple: $M_0$2.3×10^{17}Nm, NP1:ϕ_S206°, δ81°,λ175°. NP2:ϕ_S297°,δ85°,λ9°.

(173) Tonga

ISC	**X**	**19 15 53 39.1**±.18	**21.96S**±.044	**174.89W**±.044	**35**±3.2*	**5.5b,5.8s**	**346**	**8-164**
EIDC	X	19 15 53 35.9	21.9S	174.8W	0	4.9b		**¶97x3364**
NEIC	X	19 15 53 38.9	21.80S	175.01W	33	5.6b,5.9s		
MOS	X	19 15 53 39.3	21.7S	175.0W	33	5.9b,5.7s		
BJI	X	19 15 53 39.7	21.73S	174.55W	36	5.7b,5.7s		
HRVD	X	19 15 53 43.0±.2	22.06S±.02	173.90W±.02	19±1.2			

NEIC Ms6.0(BRK), Mw5.8(HRV).

NEIC Mo=4.1×10^{17}Nm (PPT).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c90; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}2.70±.05; $M_{\theta\theta}$−0.09±.07; $M_{\phi\phi}$−2.61±.08; $M_{r\theta}$1.31±.15; $M_{r\phi}$3.57±.28; $M_{\theta\phi}$−1.85±.06. Principal Axes: T 4.52,Plg64°,Azm281°; N 0.84, Plg6°,Azm23°; P −5.36,Plg25°,Azm116°. Best double couple: $M_0$4.9×10^{17}Nm, NP1:ϕ_S219°, δ20°,λ107°. NP2:ϕ_S21°,δ70°,λ84°.

(171) South of Fiji

ISC	**X**	**20 05 14 40.3**±.20	**25.70S**±.045	**176.79W**±.052	**33**	**5.3b,4.7s**	**200**	**4-165**
EIDC	X	20 05 14 36.4	25.6S	176.6W	0	5.2b,4.6s		**¶97x3444**
BJI	X	20 05 14 39.4	25.22S	176.63W	23	5.5b		
NEIC	X	20 05 14 40.3	25.61S	176.82W	33	5.2b,4.7s		
MOS	X	20 05 14 45.9	26.4S	179.7E	33	5.5b		
HRVD	X	20 05 14 46.2±.5	25.64S±.06	176.20W±.05	36±4.2			

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c38; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.53±.33; $M_{\theta\theta}$−0.19±.62; $M_{\phi\phi}$−6.35±.49; $M_{r\theta}$−1.29±1.17; $M_{r\phi}$6.25±.97; $M_{\theta\phi}$−1.07±.37. Principal Axes: T 9.34,Plg66°,Azm246°; N −0.42,Plg10°,Azm0°; P −8.91,Plg21°,Azm94°. Best double couple: $M_0$9.1×10^{16}Nm, NP1: ϕ_S202°,δ25°,λ114°. NP2:ϕ_S355°,δ67°,λ79°.

(318) Yunnan Province

ISC	**X**	**23 12 28 34.4**±.79	**26.97N**±.031	**100.39E**±.038	**40**±7.8	**4.9b,4.6s**	**190**	**3-149**
EIDC	X	23 12 28 30.0	26.9N	100.4E	0	4.7b,4.4s		**¶97x3993**
BJI	X	23 12 28 32.3	27.00N	100.38E	23	4.7L,5.2b		
NEIC	X	23 12 28 33.4	27.00N	100.39E	33	5.1b,4.6s		
MOS	X	23 12 28 33.9	27.0N	100.5E	33	5.5b,4.6s		
HRVD	X	23 12 28 38.2±.9	27.14N±.15	100.55E±.20	15			

BJI Ms5.3

NEIC Mw5.1(HRV)

NEIC Some damage to houses in the Lijiang area.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.36±.36; $M_{\theta\theta}$0.12±.41; $M_{\phi\phi}$3.24±.51; $M_{r\theta}$0.31±1.62; $M_{r\phi}$−4.49±2.97; $M_{\theta\phi}$−1.03±.36. Principal Axes: T 5.71,Plg26°,Azm78°; N −0.08,Plg7°,Azm171°; P −5.64,Plg63°,Azm274°. Best double couple: $M_0$5.7×10^{16}Nm, NP1: ϕ_S153°,δ20°,λ−110°. NP2:ϕ_S353°,δ72°,λ−83°.

(403) North Atlantic Ridge

ISC	**X**	**23 14 07 28.8**±.17	**46.38N**±.032	**27.50W**±.029	**10**	**5.0b,5.1s**	**277**	**9-153**
BJI	X	23 14 07 23.8	45.67N	27.98W	10	5.1b,5.5s		**¶97x4010**
NEIC	X	23 14 07 28.8	46.45N	27.51W	10	5.0b,5.2s		
EIDC	X	23 14 07 28.9	46.5N	27.4W	0	4.6b,5.0s		
HRVD	X	23 14 07 32.8±.3	46.25N±.05	27.68W±.04	15			

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c72; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.28±.04; $M_{\theta\theta}$0.00±.05; $M_{\phi\phi}$1.28±.04; $M_{r\theta}$0.85±.14; $M_{r\phi}$−0.81±.18; $M_{\theta\phi}$0.45±.04. Principal Axes: T 1.54,Plg13°,Azm99°; N 0.43, Plg27°,Azm2°; P −1.97,Plg59°,Azm212°. Best double couple: $M_0$1.8×10^{17}Nm, NP1:ϕ_S220°, δ40°,λ−44°. NP2:ϕ_S347°,δ63°,λ−121°.

(403) North Atlantic Ridge

ISC	**X**	**25 09 55 00.4**±.24	**22.66N**±.049	**45.18W**±.029	**10**	**5.4b,4.9s**	**299**	**17-179**
MOS	X	25 09 54 59.9	22.6N	45.1W	10	5.6b,4.7s		**¶97x4310**
NEIC	X	25 09 55 00.2	22.67N	45.19W	10	5.5b,4.9s		
EIDC	X	25 09 55 00.5	22.8N	45.1W	0	4.6b		
HRVD	X	25 09 55 02.6±.5	22.09N±.07	45.16W±.08	15			

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c37; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−6.11±.27; $M_{\theta\theta}$−1.15±.40; $M_{\phi\phi}$7.26±.48; $M_{r\theta}$2.90±.91; $M_{r\phi}$−6.08±1.76; $M_{\theta\phi}$1.38±.37. Principal Axes: T 9.62,Plg21°,Azm91°; N 0.05, Plg20°,Azm354°; P −9.67,Plg61°,Azm224°. Best double couple: $M_0$9.6×10^{16}Nm, NP1: ϕ_S212°,δ30°,λ−47°. NP2:ϕ_S345°,δ68°,λ−111°.

(248) Philippine Islands region

ISC	**X**	**26 08 43 30**±1.4	**7.16N**±.023	**127.47E**±.032	**27**±9.8	**5.4b,5.1s**	**309**	**2-170**
NEIC	X	26 08 43 30.7	7.15N	127.44E	33	5.6b,5.1s		**¶97x4437**
MOS	X	26 08 43 30.9	7.2N	127.4E	33	5.9b,5.0s		
BJI	X	26 08 43 31.7	7.13N	127.34E	46	5.3b,5.2s		
EIDC	X	26 08 43 33.0	7.2N	127.5E	36	5.1b,5.0s		
HRVD	X	26 08 43 34.6±.2	7.10N±.03	127.82E±.03	15			

NEIC Mw5.6(GS), Mw5.6(HRV).

NEIC Mo=6.7×10^{17}Nm (PPT).

NEIC Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}−1.47; $M_{\theta\theta}$0.19; $M_{\phi\phi}$1.28; $M_{r\theta}$0.67; $M_{r\phi}$2.05; $M_{\theta\phi}$−0.16. Depth 4km; Principal axes: T 2.39,Plg29°,Azm275°; N 0.32,Plg9°,Azm10°; P −2.72,Plg60°,Azm116°. Best double couple: $M_0$2.6×10^{17}Nm; NP1:ϕ_S342°,δ18°,λ−120°. NP2: ϕ_S193°,δ74°,λ−81°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c68; Mantle waves: s11,c13; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.40±.05; $M_{\theta\theta}$−0.21±.06; $M_{\phi\phi}$2.61±.07; $M_{r\theta}$0.30±.18; $M_{r\phi}$1.02±.22; $M_{\theta\phi}$0.25±.05. Principal Axes: T 2.84,Plg11°,Azm276°; N −0.22,Plg5°,Azm7°; P −2.62,Plg78°,Azm119°. Best double couple: $M_0$2.7×10^{17}Nm, NP1:ϕ_S359°,δ34°,λ−99°. NP2:ϕ_S190°,δ56°,λ−84°.

(691) South Pacific Cordillera

ISC	**X**	**26 13 55 33.5**±.35	**54.08S**±.076	**133.2W**±.14	**10**	**4.7b,5.5s**	**199**	**32-174**
NEIC	X	26 13 55 33.1	54.12S	132.97W	10	5.1b,5.5s		**¶97x4471**
EIDC	X	26 13 55 38.4	54.4S	132.9W	23	4.2b,5.4s		
MOS	X	26 13 55 41.5	54.6S	135.4W	10	5.7b,5.5s		
BJI	X	26 13 55 43.1	54.10S	132.90W	10	5.6s		
HRVD	X	26 13 55 47.0±.2	54.28S±.03	132.79W±.04	15			

NEIC Mw5.8(HRV), Less reliable solution.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c89; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}0.17±.09; $M_{\theta\theta}$2.74±.12; $M_{\phi\phi}$−2.90±.09; $M_{r\theta}$0.03±.29; $M_{r\phi}$−0.19±.33; $M_{\theta\phi}$3.91±.11. Principal Axes: T 4.74,Plg1°,Azm153°; N 0.17, Plg88°,Azm42°; P −4.91,Plg2°,Azm243°. Best double couple: $M_0$4.8×10^{17}Nm, NP1:ϕ_S288°, δ88°,λ−1°. NP2:ϕ_S18°,δ89°,λ−178°.

(177) Kermadec Islands region

ISC	**X**	**27 09 33 01.2**±.16	**31.09S**±.034	**178.40W**±.044	**52**±2.7*	**5.4b,5.4s**	**434**	**2-173**
BJI	X	27 09 32 58.7	30.79S	178.30W	32	5.4b,5.6s		**¶97x4594**
NEIC	X	27 09 32 59.5	30.76S	178.45W	33	5.5b,5.4s		
MOS	X	27 09 33 00.1	30.7S	178.3W	33	5.9b,5.5s		
EIDC	X	27 09 33 04.1	30.7S	178.2W	55	4.9b,5.4s		
HRVD	X	27 09 33 07.3±.1	30.81S±.01	178.04W±.01	46±1.0			

NEIC Mw5.9(HRV).

NEIC Mo=7.9×10^{17}Nm (PPT).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c119; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}5.63±.07; $M_{\theta\theta}$0.95±.10; $M_{\phi\phi}$−6.58±.11; $M_{r\theta}$1.56±.11; $M_{r\phi}$4.46±.13; $M_{\theta\phi}$−1.83±.10. Principal Axes: T 7.22,Plg71°,Azm298°; N 1.34, Plg4°,Azm195°; P −8.56,Plg18°,Azm104°. Best double couple: $M_0$7.9×10^{17}Nm, NP1: ϕ_S187°,δ27°,λ81°. NP2:ϕ_S18°,δ63°,λ95°.

WEL Felt I=IV MM at Raoul Island

(306) Xizang

ISC	**X**	**30 02 02 53.4**±.91	**29.54N**±.036	**89.73E**±.031	**45**±8.7	**5.1b,4.2s**	**253**	**1-160**
EIDC	X	30 02 02 49.2	29.5N	89.7E	0	4.9b,4.0s		**¶97x4976**
NEIC	X	30 02 02 52.0	29.55N	89.70E	33	5.3b		
MOS	X	30 02 02 52.3	29.5N	89.7E	33	5.5b,4.1s		
BJI	X	30 02 02 59.3	30.27N	90.28E	33	4.3L,5.2b		

BJI Ms4.7

(169) Samoa region

ISC	**XI**	**01 00 02 51.7**±.27	**16.65S**±.074	**172.78W**±.060	**33**	**5.0b,5.3s**	**243**	**3-166**
EIDC	XI	01 00 02 47.0	16.9S	172.7W	0	4.8b,5.3s		**¶97xi0001**
BJI	XI	01 00 02 51.3	16.60S	172.90W	33	5.2b,5.5s		
NEIC	XI	01 00 02 51.3	16.61S	172.95W	33	5.0b,5.4s		
MOS	XI	01 00 02 56.2	16.3S	174.0W	33	5.8b		
HRVD	XI	01 00 02 56.2±.2	16.70S±.03	172.18W±.03	15			

NEIC Mw5.6(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c49; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}2.08±.05; $M_{\theta\theta}$−0.15±.07; $M_{\phi\phi}$−1.93±.07; $M_{r\theta}$0.22±.15; $M_{r\phi}$1.29±.15; $M_{\theta\phi}$−0.29±.06. Principal Axes: T 2.46,Plg74°,Azm280°; N −0.10, Plg0°,Azm189°; P −2.36,Plg16°,Azm99°. Best double couple: $M_0$2.4×10^{17}Nm, NP1:ϕ_S189°, δ29°,λ90°. NP2:ϕ_S9°,δ61°,λ90°.

(306) Xizang

ISC	**XI**	**03 02 29 48**±2.0	**29.04N**±.027	**85.39E**±.025	**8**±12	**5.4b,5.1s**	**391**	**3-157**
LJU	XI	03 02 29 31.1	24.9N	85.5E	7			**¶97xi0380**
EIDC	XI	03 02 29 48.8	29.0N	85.5E	0	5.1b,4.8s		
NDI	XI	03 02 29 50	28.6N	85.5E	33	5.2b		
BJI	XI	03 02 29 50.3	29.06N	85.38E	32	5.4b,5.5s		
NEIC	XI	03 02 29 51.8	29.08N	85.38E	33	5.4b,5.0s		
MOS	XI	03 02 29 52.3	29.1N	85.4E	33	5.6b,5.2s		
HRVD	XI	03 02 29 56.8±.2	28.60N±.03	85.39E±.03	33			

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c66; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.72±.05; $M_{\theta\theta}$−0.21±.09; $M_{\phi\phi}$1.93±.08; $M_{r\theta}$−0.20±.13; $M_{r\phi}$1.10±.18; $M_{\theta\phi}$0.34±.05. Principal Axes: T 2.27,Plg15°,Azm277°; N −0.20, Plg10°,Azm184°; P −2.07,Plg72°,Azm61°. Best double couple: $M_0$2.2×10^{17}Nm, NP1:ϕ_S21°,

δ31°,λ−70°. NP2:φS178°,δ61°,λ−102°.

(135) Near coast of Central Chile

ISC	XI	03 19 17 35.0±.51	30.76S±.030	71.16W±.040	55±5.1	6.2b,5.7s	447	2-175
GUC	XI	03 19 17 32.0	30.66S	71.79W	44	5.8D		¶97xi0505
BJI	XI	03 19 17 32.2	30.60S	70.84W	37	6.2s		
NEIC	XI	03 19 17 33.8	30.74S	71.22W	45	6.2b,5.6s		
MOS	XI	03 19 17 35.4	30.8S	71.3W	57	6.5b		
EIDC	XI	03 19 17 36.3	30.9S	71.3W	60	5.5b,5.2L		
HRVD	XI	03 19 17 39.8±1.0	30.99S	71.69W	51			

NEIC Mw6.2(GS), Damage I=VII MM, landslide/avalanche observed.

NEIC Radiated energy from the P−wave first−motion solution: 4.5±1.3×10^{13}Nm/13

NEIC Broadband fault plane solution: P waves. NP1:φS15°,δ30°,λ120°. NP2:φS161°,δ64°,λ74°. Principal axes: T Plg67°,Azm42°; P Plg4°,Azm249°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s39, scale 10^{18}Nm; M_{rr}2.17; $M_{\theta\theta}$0.03; $M_{\phi\phi}$−2.19; $M_{r\theta}$0.14; $M_{r\phi}$−0.68; $M_{\theta\phi}$0.09. Depth 43km; Principal axes: T 2.28,Plg81°,Azm70°; N 0.02,Plg3°, Azm177°; P −2.30,Plg9°,Azm267°. Best double couple: $M_0$2.3×10^{18}Nm; NP1:φS1°,δ36°, λ95°. NP2:φS175°,δ54°,λ87°.

NEIC Mw 6.2 (HRV). Me 6.2 (GS). Ms 5.5 (BRK). Additional damage I=VII MM at Punitaqui. Felt VI MM at Hurtado, Illapel, La Serena, Monte Patria, Ovalle and Vicuna; V MM at Copiapo and Coquimbo; IV MM at Petorca; III MM at San Antonio, Santiago and Valparaiso. Power and telephone outages occurred at Coquimbo, La Serena and Ovalle. Landslides occurred along Route 5 North in the epicentral area. Also felt III MM at Mendoza, Argentina.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s48,c108; Mantle waves: s30,c54; Half duration: 13^{s}0. Moment tensor: Scale 10^{18}Nm; M_{rr}1.80±.02; $M_{\theta\theta}$0.12±.02; $M_{\phi\phi}$−1.93±.03; $M_{r\theta}$0.07±.04; $M_{r\phi}$−1.01±.03; $M_{\theta\phi}$0.23±.02. Principal Axes: T 2.06,Plg76°,Azm89°; N 0.15,Plg1°,Azm354°; P −2.21,Plg14°,Azm264°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:φS352°,δ31°,λ88°. NP2:φS175°,δ59°,λ91°.

(422) Maldive Islands region

ISC	XI	05 09 59 08±2.3	2.11S±.043	73.79E±.041	35±20	5.1b,5.2s	298	16-153
NEIC	XI	05 09 59 04.2	2.13S	73.84E	10	5.4b,5.3s		¶97xi0764
MOS	XI	05 09 59 04.5	2.1S	73.8E	10	5.5b,5.1s		
BJI	XI	05 09 59 08.1	1.49S	73.50E	5	5.0b,5.4s		
EIDC	XI	05 09 59 09.3	2.1S	73.8E	27	4.7b,5.2s		
HRVD	XI	05 09 59 18.8±.6	1.94S±.06	73.87E±.04	15			

NEIC Mw5.6(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c42; Half duration: 1^{s}4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.31±.07; $M_{\theta\theta}$−0.98±.10; $M_{\phi\phi}$1.29±.09; $M_{r\theta}$0.85±.32; $M_{r\phi}$−0.18±.28; $M_{\theta\phi}$−1.91±.09. Principal Axes: T 2.50,Plg12°,Azm59°; N −0.21, Plg68°,Azm298°; P −2.28,Plg19°,Azm153°. Best double couple: $M_0$2.4×10^{17}Nm, NP1: φS195°,δ68°,λ−5°. NP2:φS287°,δ85°,λ−158°.

(370) Crete

ISC	XI	05 12 22 51±1.2	34.66N±.028	23.96E±.019	5±7.4	5.3b,4.7s	436	1-145
EIDC	XI	05 12 22 52.3	34.8N	24.1E	0	5.2b,5.0L		¶97xi0797
THE	XI	05 12 22 53.3	34.5N	23.9E	20	4.9L		
BJI	XI	05 12 22 55.3	34.74N	23.71E	46	5.5b,4.8s		
MOS	XI	05 12 22 55.4	34.8N	24.1E	33	6.0b,4.8s		
NEIC	XI	05 12 22 55.4	34.77N	23.98E	33	5.1b		
ATH	XI	05 12 22 58.4	34.91N	24.02E	15	4.7L		
HRVD	XI	05 12 22 58.4±.7	34.61N±.09	23.62E±.14	40±7.7			
PDG	XI	05 12 23 01.5	35.5N	23.6E	11	5.1L		

NEIC Mw5.4(HRV)

NEIC Felt strongly on Gavdhos. Felt in many parts of Crete and on the Dodecanese Islands.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1^{s}1. Moment tensor: Scale 10^{17}Nm; M_{rr}0.63±.11; $M_{\theta\theta}$−0.18±.09; $M_{\phi\phi}$−0.45±.17; $M_{r\theta}$1.19±.17; $M_{r\phi}$0.14±.24; $M_{\theta\phi}$0.71±.13. Principal Axes: T 1.62,Plg49°,Azm337°; N −0.28, Plg31°,Azm110°; P −1.34,Plg24°,Azm215°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: φS350°,δ34°,λ154°. NP2:φS101°,δ76°,λ58°.

(364) Greece

ISC	XI	05 21 10 27.5±.64	38.41N±.018	22.28E±.015	13±4.1	5.4b,5.4s	565	1-145
BJI	XI	05 21 10 27.8	38.23N	21.98E	39	5.3b,5.5s		¶97xi0864
THE	XI	05 21 10 28.3	38.4N	22.5E	0	4.8L		
ATH	XI	05 21 10 28.3	38.34N	22.31E	3	4.9L		
NEIC	XI	05 21 10 28.6	38.44N	22.28E	24	5.5b,5.4s		
MOS	XI	05 21 10 29.8	38.4N	22.3E	33	5.7b,5.2s		
CSEM	XI	05 21 10 30.6	38.58N	22.33E	20			
EIDC	XI	05 21 10 31.1	38.5N	22.3E	29	5.0b,4.8L		
PDG	XI	05 21 10 31.2	38.3N	21.2E	10	5.7D		
HRVD	XI	05 21 10 32.4±.3	38.11N±.05	22.49E±.07	15			

ATH Felt in the regions of Phokida, I=V−VI MCS at Itea, Lidoriki, Penteoria, Malandrinos, Desphina, Pentapoli, Amygdalea, Kastelli, Vounichora, V at Galaxeidi, Elaionas, Gravia, Chrysso, Managouli, Agia−Efthymia, Kallithea, Glyphada, Prosilio, Sernikaki, Krokyleio, Eptalophos, Erateini, IV−V at Drosochori, Potidania, IV at Marathias; in Boeotia, V−VI at Antikyra, V at Arachova, Agios−Dimitrios, Parorio, IV−V at Kaparelli, Elaionas, Mavrommati, IV at Thivai, Distomo, Agios−Georgios, Agios−Ioannis, Prodromos, Neochoraki, Schimatari, Koroneia, Orchomenos, Oinophyta, Agios−Vlassios, Agia−Triada, Asopia, Ypsilantis, III at Agios−Thomas, Ellopia.

ATH Felt in the regions of in Aitoloakarnania, I=V MCS at Spolaita, Sitaralona, Antirrio, Grammatikou, Kato−Kerasovo, IV−V at Palaiokarya, Sargiada, IV at Nafpaktos, Messarista, Thyrio, Agios−Thomas, Galatas, Analipsi, Lysimacheia, Ampelaki, Plagia, Lepenou, Agios−Vlassios, Kataphygio, Kainourgio, Empessos, Dokimio, Petrochori, Drymonas, Koniska, Avarikos, Katochi, Pappadatos, Phyteies, Vomvokou, Xiropigado, Monastiraki, Angelokastro, Konopina, Agios−Nikolaos, Myrtea, Kechrinia, Ano−Kerasovo, III−IV at Drymos, III at Amphilocheia, Gavalou, Stratos, Sparto, Vasilopoulo, Petrona, Evinochori, Paravola, Panaitolio, Agios−Konstantinos, Chrysovergi, Varetada, Patiopoulo, Rigani, Arachova, Mataranka, Paliampela, II at Menidi; in Korinthia, V at Velo, Zemeno, Diminio, Pitsa, IV−V at Nemea, Galataki, IV at Korinthos, Kiato, Loutraki, Examilia, Xylokeriza, Athikia, Goura, Kalyvia, Sophiko, Archaia−Nemea, Kephalari, Kaisareia, Panaritio, Lukoporia, Kryoneri, Isthmia, Solomos, Archaies−Kleones, III−IV at Vochaiko, III at Lafka, Kamari, Psari, Agios−Vasileios.

ATH Felt in the regions of Achaia, I=V MCS at Zarouchla, Daphnes, Kerpini, IV at Daphni, Ovria, Livartzi, Sagaiika, Kounina, Kalousio, Kouteli, Aigeira, Kertezi, Kalliphonio, Mintiloglio, Myrtos, Diakophto, Rododaphni, Keryneia, Longos, Kankadi, Skepasto, Ano−Diakophto, Kamares, Kalphas, Temeni, Kato−Vlassia, Phlokas, Rio, Ziria, Philia, Manesi, Vrachnaiika, Stratochori, Alissos, Isoma, Planitero, III at Priolithos, Aroania, Drosia, Krinophyta, Lagovouni, Kalentzi, Lousika; in Evrytania, V at Mesokomi, Monastiraki, Ampelia, IV at Karpenisi, Proussos, Raptopoulo, Domianoi, Vracha, Stenoma, Krikello, Vrangiana, Neraida, III at Phourna, Topoliana; in Phthiotida, V at Amphikleia, Ypati, Palamas, Giannitsou, Leianokladi, Stirphaka, Makrakomi, IV−V at Kammena−Vourla, Bralos, Archanio, IV at Lamia, Stylida, Domokos, Kato−Tithorea, Modi, Martino, Xyniada, Kolaka, Tymphristos, Phteri, Ladikou, Thermopyles, Phrantzis, Kastri, Vardali, Agios−Serapheim, Skarpheia, Kainourgio, Mendenitsa, Renkinio, Messopotamia, Zelio, Karyes, Roditsa, Elateia, Divri, Megaplatanos, Livanates, Glypha, Agnanti, Agios−Konstantinos, Perivoli, Palaiokerassia, Pournari, Neo−Monastiraki, Pavliani, III at Atalanti, Ekkara, Spercheiada, Karavomylos, Mantassia.

ATH Felt in the regions of Karditsa, I=IV MCS at Palamas, Mouzaki, Sophades, Mavrommati, Kalliphonio, Phyllo, Koskinas, Karpochori, Artessiano, Leontari, Neochori, Mitropoli, III at Mataranka, Drakotrypa, Makrychori, Trikala, IV at Pyli, Neochori, Vassiliki, Megala−Kalyvia, III at Kalampaka; in Larisa, IV at Larisa, Elassona, Tyrnavos, III at Rapsani, Agia, Argyropouleio, Pyrgetos; in Argolida, IV at Nafplio, Assini, Agia−Triada, III−V at Karya, III at Lygourio, Nea−Kios; in Arkadia, IV at Vytina, Valtessiniko, III at Tripoli, Leonidio, Megalopoli, Astros, Tropaia, Agios−Petros; in Heleia, IV at Pelopio, III at Goumero; in Arta, IV at Arta, Petas, III at Ammotopos; in Lakonia III at Sparti, Kastoreio; in Preveza, III at Rizovouni, Agia; in Messinia, III at Philiatra, Gargalianoi; in Ioannina, III at Metsovo, II−III at Perama; in Grevena, III at Mega−Seirinio; and on the Islands of Euboea, IV at Psachna, Agios, Amarynthos, Neos−Pyrgos, Mytikas, III at Kymi, Agia−Anna, Agios−Loukas, Makrykapa, Mantoudi; on Lefkada, IV at Karya; on Kerkyra, IV at Karoussades, III at Kerkyra, Agios−Matthaios; on Zakynthos, III at Zakynthos, Mouzaki; on Kephallinia, III at Pharaklata.

NEIC Mw5.6(HRV)

NEIC Mw 5.5 (GS). ML 4.9 (ATH). Power outages occurred in the Galaxidhion and Itea areas. Felt in central and northern Greece.

NEIC Moment tensor solution: s9, scale 10^{17}Nm; M_{rr}−1.46; $M_{\theta\theta}$1.56; $M_{\phi\phi}$−0.10; $M_{r\theta}$0.03; $M_{r\phi}$0.97; $M_{\theta\phi}$−0.97. Depth 21km; Principal axes: T 2.05,Plg7°,Azm207°; N −0.01,Plg30°, Azm301°; P −2.04,Plg59°,Azm106°. Best double couple: $M_0$2.0×10^{17}Nm; NP1:φS267°,δ47°, λ−134°. NP2:φS142°,δ59°,λ−54°.

CSEM Mw5.6. M_0=3.3±1.8×10^{17}Nm. Fault plane solution NP1:φS306°,δ49°,λ−73°. NP2:φS101°, δ44°,λ−109°. Principal Axes: T Plg3°,Azm24°; N Plg13°,Azm115°; P Plg77°,Azm282°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c32; Mantle waves: s7,c8; Half duration: 1^{s}4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.67±.12; $M_{\theta\theta}$1.55±.08; $M_{\phi\phi}$0.12±.16; $M_{r\theta}$1.65±.46; $M_{r\phi}$−0.15±.42; $M_{\theta\phi}$−1.68±.12. Principal Axes: T 3.12,Plg17°,Azm30°; N −0.63,Plg24°,Azm292°; P −2.49,Plg59°,Azm152°. Best double couple: $M_0$2.8×10^{17}Nm, NP1:φS152°,δ35°,λ−44°. NP2:φS281°,δ67°,λ−117°.

(212) Bonin Islands region

ISC	XI	05 23 45 30.9±.14	27.88N±.024	142.61E±.031	10	5.4b,5.7s	368	1-164
BJI	XI	05 23 45 29.6	28.00N	142.67E	10	5.4b,5.9s		¶97xi0884
NEIC	XI	05 23 45 30.7	27.86N	142.61E	10	5.4b,5.6s		
MOS	XI	05 23 45 31.6	27.9N	142.6E	13	6.1b,6.0s		
JMA	XI	05 23 45 33.7±.4	28.00N±.01	142.53E±.08	43	5.9		
EIDC	XI	05 23 45 35.5	27.9N	142.7E	28	5.0b,5.7s		
HRVD	XI	05 23 45 35.7±.2	27.67N±.02	142.76E±.02	15			

NEIC Mw5.9(GS), Mw5.9(HRV).

NEIC Moment tensor solution: s15, scale 10^{17}Nm; M_{rr}5.34; $M_{\theta\theta}$−0.46; $M_{\phi\phi}$−4.88; $M_{r\theta}$2.34; $M_{r\phi}$7.08; $M_{\theta\phi}$−2.04. Depth 7km; Principal axes: T 9.11,Plg63°,Azm286°; N 0.32,Plg2°, Azm19°; P −9.43,Plg27°,Azm110°. Best double couple: $M_0$9.3×10^{17}Nm; NP1:φS204°,δ18°, λ95°. NP2:φS19°,δ72°,λ88°.

JMA Felt I=II J1

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c63; Mantle waves: s13,c18; Half duration: 2^{s}2. Moment tensor: Scale 10^{17}Nm; M_{rr}4.73±.08; $M_{\theta\theta}$0.16±.10; $M_{\phi\phi}$−4.89±.11; $M_{r\theta}$−1.00±.31; $M_{r\phi}$5.23±.33; $M_{\theta\phi}$−1.21±.09. Principal Axes: T 7.31,Plg63°,Azm244°; N −0.05,Plg12°,Azm1°; P −7.25,Plg23°,Azm96°. Best double couple: $M_0$7.3×10^{17}Nm, NP1:φS210°,δ25°,λ121°. NP2:φS356°,δ69°,λ77°.

(181) Fiji region

ISC	XI	06 21 43 55±2.2	13.24S±.063	174.87E±.056	37±19	5.1b,5.1s	180	8-173
EIDC	XI	06 21 43 50.9	13.2S	175.0E	0	4.8b,5.0s		¶97xi1036
NEIC	XI	06 21 43 54.4	13.19S	174.88E	33	5.3b,5.2s		
MOS	XI	06 21 43 54.8	13.3S	174.9E	33	5.7b,4.9s		
BJI	XI	06 21 43 55.2	12.65S	174.69E	20	5.4b,5.1s		

(159) North Island, New Zealand

ISC	XI	07 22 30 02.7±.94	40.34S±.036	176.66E±.072	27±6.4	5.0b,5.0s	106	1-166
WEL	XI	07 22 30 01.6	40.43S	176.84E	16	5.4L		¶97xi1178
BJI	XI	07 22 30 03.1	40.49S	176.84E	43	5.6b,5.0s		
NEIC	XI	07 22 30 04.1	40.31S	176.55E	33	5.0b,4.9s		
EIDC	XI	07 22 30 13.4	40.2S	176.3E	96	4.8b,5.0s		

WEL Felt Hawkes Bay and Manawatu, maximum intensity I=V MM in Napier and Waipawa.

NEIC Felt in the Hawkes Bay region.

(306) Xizang

ISC	XI	08 10 02 53.4±.12	35.12N±.028	87.37E±.022	38±2.1*	6.0b,7.4s	651	6-160
EIDC	XI	08 10 02 48.4	35.1N	87.3E	0	5.4b,7.7s		¶97xi1252
BJI	XI	08 10 02 51.2	35.26N	87.33E	34	5.9b,7.4s		
NDI	XI	08 10 02 52.6	35.0N	87.3E	33	6.2b		
NEIC	XI	08 10 02 52.6	35.07N	87.33E	33	6.2b,7.9s		
MOS	XI	08 10 02 53.2	35.3N	87.4E	33	6.5b,7.7s		
HRVD	XI	08 10 03 03.4±.1	35.33N±.01	86.96E±.01	16±.5			

NEIC Mw7.5(HRV), Me7.4(GS).

NEIC Mw 7.4 (GS), 7.1 (OBN). Ms 7.5 (BRK).

NEIC Radiated energy from the P−wave first−motion solution: 3.1±0.9×10^{15}Nm/11

NEIC Broadband fault plane solution: P waves. NP1:φS350°,δ85°,λ179°. NP2:φS80°,δ89°,λ5°. Principal axes: T Plg4°,Azm305°; P Plg3°,Azm215°. Complex earthquake with at least two larger events occurring about 3 and 6 seconds after the onset. Depth and focal mechanism based on first event.

NEIC Moment tensor solution: s12, scale 10^{20}Nm; M_{rr}0.09; $M_{\theta\theta}$−0.96; $M_{\phi\phi}$0.87; $M_{r\theta}$0.05; $M_{r\phi}$0.03; $M_{\theta\phi}$1.11. Depth 38km; Principal axes: T 1.39,Plg2°,Azm295°; N 0.08,Plg88°,Azm87°; P −1.48,Plg1°,Azm205°. Best double couple: $M_0$1.4×10^{20}Nm; NP1:φS340°,δ88°,λ179°. NP2: φS70°,δ89°,λ2°.

NEIC Felt in China (after QUE)

MOS Seismic moment $M_0$5.2×10^{19}Nm (after OBN)

MOS Focal mechanism: C77,D21; NP1:φS84°,δ90°,λ0°. NP2:φS354°,δ90°,λ180°. Principle axes: T Plg0°,Azm309°; N Plg90°,Azm0°; P Plg0°,Azm39°.

HRVD Centroid moment tensor solution. Data used: GSN; Mantle waves: s34,c80; Half duration: 14^{s}7. Moment tensor: Scale 10^{20}Nm; M_{rr}−0.24±.01; $M_{\theta\theta}$−0.74±.01; $M_{\phi\phi}$0.97±.01; $M_{r\theta}$0.06±.07; $M_{r\phi}$0.85±.09; $M_{\theta\phi}$1.89±.01. Principal Axes: T 2.41,Plg16°,Azm301°; N −0.35, Plg69°,Azm164°; P −2.05,Plg14°,Azm35°. Best double couple: $M_0$2.2×10^{20}Nm, NP1:φS79°, δ69°,λ2°. NP2:φS348°,δ88°,λ159°.

(221) Kuril Islands

ISC	XI	08 12 14 37.8±.72	48.20N±.034	154.38E±.041	35±6.2	5.2b	290	3-156
BJI	XI	08 12 14 36.7	48.32N	154.80E	50	5.1b,5.5s		¶97xi1278
NEIC	XI	08 12 14 37.4	48.22N	154.38E	33	5.3b		
MOS	XI	08 12 14 37.5	48.1N	154.5E	40	5.4b		
SKHL	XI	08 12 14 39.0	48.0N±.11	154.8E±.18	59±4			
EIDC	XI	08 12 14 44.3	48.3N	154.3E	79	4.6b		
SKHL	K12							

(306) Xizang

ISC	XI	09 00 24 51±2.1	33.71N±.034	88.34E±.028	12±13	5.1b,5.0s	231	5-124
NDI	XI	09 00 24 26.5	37.5N	90.8E	334	4.3b		¶97xi1369
EIDC	XI	09 00 24 50.9	33.6N	88.3E	0	4.8b,4.8s		
MOS	XI	09 00 24 53.7	33.6N	88.4E	33	5.2b,5.0s		
NEIC	XI	09 00 24 54.0	33.68N	88.28E	33	5.1b,5.0s		
BJI	XI	09 00 24 55.3	33.80N	88.54E	35	5.1b,5.5s		
HRVD	XI	09 00 25 01.2±.6	33.58N±.11	88.56E±.09	33			

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c34; Half duration: 1^{s}1. Moment tensor: Scale 10^{16}Nm; M_{rr}−7.48±1.32; $M_{\theta\theta}$0.09±1.10; $M_{\phi\phi}$7.39±1.09; $M_{r\theta}$0.59±1.86; $M_{r\phi}$5.67±2.17; $M_{\theta\phi}$5.27±1.51. Principal Axes: T 11.6,Plg16°,Azm295°; N −2.1,Plg15°,Azm201°; P −9.6,Plg68°,Azm69°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: φS46°,δ32°,λ−60°. NP2:φS192°,δ62°,λ−107°.

(407) North of Ascension Island

ISC	XI	10 12 47 34.2±.19	0.08N±.035	16.87W±.036	10	5.4b,5.3s	371	8-154
MOS	XI	10 12 47 33.9	0.1N	16.9W	10	5.9b,5.3s		¶97xi1615
NEIC	XI	10 12 47 33.9	0.05N	16.89W	10	5.6b,5.2s		
BJI	XI	10 12 47 34.5	0.89N	17.75W	19	5.6b,5.9s		

Agency		Origin Time mo d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
HRVD	XI	10 12 47 38.4±.2	0.25N±.03	16.84W±.04	15			
EIDC	XI	10 12 47 38.6	0.1N	17.0W	25	4.8b,5.3s		
NEIC		Mw5.6(GS), Mw5.6(HRV).						
NEIC		Moment tensor solution: s14, scale 10^{17}Nm; M_{rr}−1.81; $M_{\theta\theta}$−0.76; $M_{\phi\phi}$2.58; $M_{r\theta}$1.38; $M_{r\phi}$−0.65; $M_{\theta\phi}$−0.66. Depth 3km; Principal axes: T 2.89,Plg12°,Azm75°; N −0.12,Plg32°, Azm338°; P −2.77,Plg56°,Azm183°. Best double couple: $M_0$2.8×10^{17}Nm; NP1:ϕ_S199°,δ43°, λ−40°. NP2:ϕ_S320°,δ64°,λ−126°.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c56; Mantle waves: s5,c5; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.54±.06; $M_{\theta\theta}$−0.04±.08; $M_{\phi\phi}$2.57±.10; $M_{r\theta}$1.60±.22; $M_{r\phi}$−0.29±.27; $M_{\theta\phi}$−1.06±.06. Principal Axes: T 3.08,Plg9°,Azm67°; N 0.24,Plg25°,Azm332°; P −3.32,Plg63°,Azm175°. Best double couple: $M_0$3.2×10^{17}Nm, NP1:ϕ_S183°,δ42°,λ−51°. NP2:ϕ_S316°,δ59°,λ−119°.						
		(210) South of the Marianas						
ISC	**XI**	**10 19 04 23**±1.1	**12.32N**±.031	**145.65E**±.039	**53**±10	**5.2b,5.0s**	**236**	**1-166**
EIDC	XI	10 19 04 21.6	12.4N	145.8E	31	4.9b,4.9s		**¶97xi1660**
HRVD	XI	10 19 04 23.3±.4	12.07N±.03	145.97E±.04	43±3.0			
MOS	XI	10 19 04 23.7	12.4N	145.6E	56	5.6b		
NEIC	XI	10 19 04 24.7	12.36N	145.58E	69	5.2b,5.1s		
BJI	XI	10 19 04 24.8	12.50N	145.71E	69	5.3b,4.9s		
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c51; Mantle waves: s4,c5; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.51±.05; $M_{\theta\theta}$−0.09±.06; $M_{\phi\phi}$−1.42±.08; $M_{r\theta}$−0.31±.11; $M_{r\phi}$−1.03±.10; $M_{\theta\phi}$−0.21±.05. Principal Axes: T 1.87,Plg72°,Azm112°; N −0.07,Plg4°,Azm11°; P −1.80,Plg18°,Azm280°. Best double couple: $M_0$1.8×10^{17}Nm, NP1:ϕ_S5°,δ27°,λ82°. NP2:ϕ_S193°,δ63°,λ94°.						
NEIC		Mw5.5(GS), Mw5.5(HRV)						
NEIC		Felt I=III MM in the southern part of Guam.						
NEIC		Moment tensor solution: s7, scale 10^{17}Nm; M_{rr}1.43; $M_{\theta\theta}$0.08; $M_{\phi\phi}$−1.51; $M_{r\theta}$−0.38; $M_{r\phi}$−0.64; $M_{\theta\phi}$−0.23. Depth 38km; Principal axes: T 1.63,Plg74°,Azm139°; N 0.06,Plg10°, Azm12°; P −1.69,Plg12°,Azm280°. Best double couple: $M_0$1.7×10^{17}Nm; NP1:ϕ_S357°,δ34°, λ72°. NP2:ϕ_S198°,δ58°,λ101°.						
		(181) Fiji region						
ISC	**XI**	**11 02 00 35**±3.1	**13.17S**±.063	**174.86E**±.048	**18**±22	**5.2b,5.1s**	**224**	**8-174**
HRVD	XI	11 02 00 35.2±.6	13.21S±.06	175.50E±.08	15			**¶97xi1711**
NEIC	XI	11 02 00 36.5	13.19S	174.86E	33	5.3b,5.1s		
MOS	XI	11 02 00 37.1	13.2S	174.8E	33	5.5b,5.0s		
BJI	XI	11 02 00 38.9	12.44S	174.67E	25	5.4b,5.1s		
EIDC	XI	11 02 00 40.1	13.2S	174.9E	52	4.8b,4.9s		
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c34; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.25±.09; $M_{\theta\theta}$1.39±.08; $M_{\phi\phi}$−0.14±.14; $M_{r\theta}$−0.86±.34; $M_{r\phi}$1.09±.30; $M_{\theta\phi}$−0.22±.09. Principal Axes: T 1.81,Plg21°,Azm199°; N 0.23, Plg21°,Azm297°; P −2.03,Plg59°,Azm69°. Best double couple: $M_0$1.9×10^{17}Nm, NP1: ϕ_S256°,δ31°,λ−136°. NP2:ϕ_S126°,δ69°,λ−67°.						
NEIC		Mw5.5(HRV).						
		(692) Southern Pacific Ocean						
ISC	**XI**	**12 03 26 38.3**±.38	**35.50S**±.068	**105.00W**±.091	**10**	**4.9b,5.0s**	**167**	**27-176**
EIDC	XI	12 03 26 37.2	35.5S	105.3W	0	5.1s,4.8b		**¶97xi1926**
NEIC	XI	12 03 26 37.5	35.60S	105.04W	10	5.0b,4.9s		
MOS	XI	12 03 26 38.6	35.6S	105.6W	10	5.5b,4.9s		
BJI	XI	12 03 26 40.5	35.60S	105.00W	10	5.8s		
HRVD	XI	12 03 26 44.2±.2	35.50S±.03	104.80W±.03	15			
NEIC		Mw5.6(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c70; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.78±.06; $M_{\theta\theta}$0.29±.06; $M_{\phi\phi}$0.50±.09; $M_{r\theta}$0.25±.17; $M_{r\phi}$0.11±.23; $M_{\theta\phi}$−2.60±.06. Principal Axes: T 2.99,Plg2°,Azm46°; N −0.74, Plg80°,Azm307°; P −2.26,Plg10°,Azm136°. Best double couple: $M_0$2.6×10^{17}Nm, NP1: ϕ_S181°,δ82°,λ−6°. NP2:ϕ_S272°,δ84°,λ−172°.						
		(12) Alaska Peninsula						
ISC	**XI**	**13 22 02 15.5**±.44	**56.28N**±.041	**156.88W**±.051	**47**±3.9	**4.5b,4.8s**	**135**	**2-152**
EIDC	XI	13 22 02 10.3	56.2N	157.1W	0	4.3b,4.6L		**¶97xi2198**
BJI	XI	13 22 02 12.1	56.00N	156.60W	50	4.8b,5.5s		
NEIC	XI	13 22 02 17.1	56.03N	156.64W	50	4.5b		
NEIC		M_L4.6(PMR), M_L4.4(AEIC), After AEIC.						
		(212) Bonin Islands region						
ISC	**XI**	**14 10 27 38.8**±.25	**27.75N**±.028	**142.79E**±.049	**34**±1.0*	**4.7b,4.5s**	**136**	**1-150**
JMA	XI	14 10 27 37.8±.4	27.89N±.01	142.95E±.05	44	4.7		**¶97xi2276**
BJI	XI	14 10 27 37.9	27.92N	142.64E	18	5.0b,4.5s		
NEIC	XI	14 10 27 38.5	27.66N	142.80E	33	4.9b		
MOS	XI	14 10 27 38.7	27.7N	142.8E	33	5.5b,4.4s		
EIDC	XI	14 10 27 39.3	27.7N	142.9E	27	4.3b,4.7L		
		(365) Ægean Sea						
ISC	**XI**	**14 21 38 49.4**±.70	**38.82N**±.017	**25.82E**±.014	**2**±4.5	**5.5b,5.8s**	**685**	**1-142**
PDG	XI	14 21 38 04.8	36.4N	29.1E	13	5.6L		**¶97xi2350**
ISK	XI	14 21 38 49.8	38.86N	25.74E	12	5.1D		
EIDC	XI	14 21 38 50.3	38.8N	25.8E	0	5.3b,4.5L		
BJI	XI	14 21 38 51.0	39.19N	25.47E	26	5.6b,6.0s		
CSEM	XI	14 21 38 51.4	38.78N	25.63E	15			
RYD	XI	14 21 38 51.4	38.78N	25.63E	10	5.5D		
NEIC	XI	14 21 38 51.6	38.86N	25.80E	18	5.6b,5.8s		
THE	XI	14 21 38 51.7	38.7N	25.9E	20	5.1L		
ATH	XI	14 21 38 52.7	38.80N	25.87E	25	5.4L		
MOS	XI	14 21 38 53.6	38.9N	25.8E	33	6.0b,5.7s		
HRVD	XI	14 21 38 55.2±.2	38.74N±.02	25.77E±.05	15			
CSEM		Mw6.1. M_O=1.4±1.0×10^{18}Nm. Fault plane solution NP1:ϕ_S241°,δ71°,λ−151°. NP2:ϕ_S141°, δ63°,λ−21°. Principal Axes: T Plg5°,Azm9°; N Plg56°,Azm271°; P Plg34°,Azm103°.						
NEIC		Mw6.1(CSEM)						
NEIC		Mw 6.0 (GS), 5.9 (HRV). MD 5.1 (ISK). Felt in much of northern Greece and on the northern Aegean Islands. Also felt in Aydin, Balikesir, Bursa, Canakkale, Istanbul, Izmir and Manisa, Turkey.						
NEIC		Moment tensor solution: s14, scale 10^{18}Nm; M_{rr}0.06; $M_{\theta\theta}$1.10; $M_{\phi\phi}$−1.17; $M_{r\theta}$0.01; $M_{r\phi}$0.04; $M_{\theta\phi}$−0.39. Depth 13km; Principal axes: T 1.17,Plg0°,Azm9°; N 0.07,Plg88°,Azm277°; P −1.23,Plg2°,Azm99°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S144°,δ89°,λ−1°. NP2: ϕ_S234°,δ89°,λ−179°.						
ATH		Felt on the Islands of Lesvos, I=V MCS at Polychnitos, Loutra, Panagiouda, Pamphylla, Vrissa, Anemotia, IV−V at Mithymna, Kato−Tritos, Vassilika, Messagros, IV at Mytilini, Plomari, Eressos, Thermi, Palaiochori, Pappados, Moria, Aphalonas, Pakaiokipos, Skopelos, Kleio, Stypsi, Messotopos, Kapi, Ippeio, Antissa, III at Sigri; on Chios, V at Neochori, Lithio, IV−V at Daphnonas, IV at Vrontados, Pyrgi, Agios−Georgios−Sykousis, Olympoi, Thymiana, Karyes, Volissos, Elata, Nenita; on Euboea, IV at Aphrati, Nea−Styra, Rovies, III at Kymi, Amarynthos; on Limnos, IV at Kontias, III at Myrina, Moudros, Atsiki; on Agios−Efstratios, IV at Agios−Efstratios; on Ikaria, IV at Agios−Kirykos; on Samos, III at Vathy, Koumaiika, Pagouda, Mytilinioi, Pyrgos−Samou, Vourliotes, Chora; on Skyros, III at Skyros; on Phournoi, III at Phournoi; on Paros, III at Naoussa; on Tinos, III at Tinos; on Kalymnos, II at Kalymnos; and in the regions of Attiki, IV at Athina, Raphina, Ilioupoli, III at Vilia, Keratea, Markopoulo−Messogaias, Megara, Mandra; in Magnesia III at Almyros; in Boeotia, III at Thivai, Orchomenos, Distomo, Kaparelli.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c61; Mantle waves: s14,c20; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.12±.13; $M_{\theta\theta}$7.05±.14; $M_{\phi\phi}$−4.92±.17; $M_{r\theta}$2.06±.59; $M_{r\phi}$1.39±.46; $M_{\theta\phi}$−3.32±.16. Principal Axes: T 8.17,Plg9°,Azm13°; N −1.59,Plg65°,Azm263°; P −6.59,Plg23°,Azm107°. Best double couple: $M_0$7.4×10^{17}Nm, NP1:ϕ_S148°,δ67°,λ−10°. NP2:ϕ_S242°,δ80°,λ−156°.						
		(173) Tonga						
ISC	**XI**	**15 23 22 07.3**±.65	**20.95S**±.20	**174.4W**±.12	**33**	**4.3b,**4.9s	**39**	**7-151**
EIDC	XI	15 23 22 03.4	20.9S	174.3W	0	4.2b		**¶97xi2562**
NEIC	XI	15 23 22 06.9	20.94S	174.48W	33	4.5b		
BJI	XI	15 23 22 08.9	20.90S	174.50W	33	5.5b		
NEIC		Less reliable solution.						
		(274) Southern Sumatera						
ISC	**XI**	**16 08 18 15.9**±.72	**4.92S**±.033	**103.20E**±.037	**56**±6.6	**5.4b,4.7s**	**241**	**2-157**
BJI	XI	16 08 18 15.7	4.95S	103.09E	60	5.5b,4.8s		**¶97xi2614**
KLM	XI	16 08 18 16	4.9S	103.1E	58	5.1L		
NEIC	XI	16 08 18 16.3	4.96S	103.19E	58	5.5b		
MOS	XI	16 08 18 16.6	4.8S	103.2E	57	5.9b,4.7s		
EIDC	XI	16 08 18 17.7	5.0S	103.2E	55	5.0b		
HRVD	XI	16 08 18 20.6±.6	5.31S±.06	102.89E±.07	50			
KLM		Mb5.5						
NEIC		Mw5.3(GS), Mw5.3(HRV)						
NEIC		Felt I=III MM at Bengkulu.						
NEIC		Moment tensor solution: s7, scale 10^{17}Nm; M_{rr}0.90; $M_{\theta\theta}$0.16; $M_{\phi\phi}$−1.07; $M_{r\theta}$0.22; $M_{r\phi}$−0.29; $M_{\theta\phi}$0.06. Depth 52km; Principal axes: T 1.00,Plg74°,Azm28°; N 0.11,Plg14°, Azm174°; P −1.11,Plg9°,Azm266°. Best double couple: $M_0$1.1×10^{17}Nm; NP1:ϕ_S12°,δ38°, λ112°. NP2:ϕ_S164°,δ55°,λ73°.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c34; Mantle waves: s1,c1; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}7.20±.49; $M_{\theta\theta}$−6.54±.74; $M_{\phi\phi}$−0.66±.77; $M_{r\theta}$3.94±.98; $M_{r\phi}$−3.15±1.10; $M_{\theta\phi}$4.19±.71. Principal Axes: T 8.7,Plg72°,Azm53°; N 1.4,Plg7°,Azm301°; P −10.1,Plg16°,Azm209°. Best double couple: $M_0$9.4×10^{16}Nm, NP1:ϕ_S289°,δ29°,λ76°. NP2:ϕ_S124°,δ61°,λ98°.						
		(399) Ionian Sea						
ISC	**XI**	**18 13 07 38.3**±.12	**37.48N**±.016	**20.69E**±.014	**10**	**5.8b,6.5s**	**711**	**1-147**
PDG	XI	18 13 07 34.0	37.0N	19.6E	10	6.1D		**¶97xi2964**
ATH	XI	18 13 07 36.9	37.26N	20.49E	5	6.1L		
EIDC	XI	18 13 07 38.3	37.5N	20.8E	0	5.4b,6.6s		
CSEM	XI	18 13 07 39.2	37.49N	20.54E	15			
RYD	XI	18 13 07 39.2	37.49N	20.54E	10	5.8b		
THE	XI	18 13 07 39.7	37.4N	20.6E	10	6.1L		
NEIC	XI	18 13 07 41.7	37.57N	20.66E	33	5.9b,6.4s		
MOS	XI	18 13 07 42.1	37.6N	20.7E	33	6.1b,6.6s		
BJI	XI	18 13 07 42.5	37.58N	20.69E	48	5.8b,6.8s		
HRVD	XI	18 13 07 52.9±.1	37.33N±.01	20.84E±.01	23±.8			
ATH		Felt in the regions of Heleia, I=VI−V MCS at Andravida, Vardas, Avgeio, Vounargo, Vrina, Krestena, VI at Gastouni, Agios−Georgios, Vytinaiika, Gryllos, Pefkes, Chelidoni, V−VI at Kakovatos, Pelopio, Skillountiya, Keramidia, Katakolo, Nea−Manolada, Kapeleto, Savalia, Myronia, Nemouta, Dragonio, Skourochori, Myrsini, Irakleia, Goumero, Kakotario, Matesi, Koumanis, Agia−Mavra, Samiko, Lanthio, Graikas, Kardamas, Platanos, V at Milea, Tsipiana, Chavario, Antronio, Oinoi, Ephyra, Simopoulo, Lechaina, Anthonas, Theisoa, IV−V at Tragano, Achladini, IV at Agia−Kyriaki, Neochori, III at Anthochori; in Messinia, V−VI at Messini, Psari, Sidirokastro, Thouria, Kampos, Androusa, Arphara, Petalidi, Pilalistra, Eva, Oichalia, Avramio, Platy, V at Dorio, Vasiliko, Melpeia, Vasilitsi, Verga, IV−V at Nedousa, Zermpisia; in Achaia, V at Starochori, Arla, Kerpini, Sagaiika, Mitopoli, Vrachnaiika, Diakophto, Platanos, Isoma, Livartzi, Ovria, Kankadi, Daphnes, Zarouchla, IV−V at Vorino, Kalentzi, Akrata, Ano−Kastritsi, IV at Daphni, Elaionas, Chalandritsa, Kato−Kleitoria, Ano−Kleitoria, Mintilogli, Aigeira, Longos, Drosia, Lousika, Plilia, Manesi, Kato−Vlassia, Ziria, Myrtos, Krinos, Kalphas, III at Kamares, Aroania, Skepasto, Lykouria, Kertezi, Krinophyta, Kalliphonio, Kounina.						
ATH		Felt in the regions of Lakonia, I=V MCS at Vlachiotis, Amykles, Agios−Ioannis, IV−V at Kastoreio, IV at Gytheio, Xirokampi, Karyes, Sellasia, Skala, Vrontamas, Sykea, Mystras, Daphnio, Vresthena, Pappadianika, Skoura, Niata, Neapoli, III at Molaoi, Longanikos; in Korinthia, IV−V at Nemea, Velo, IV at Isthmia, Zevgolateio, Sophiko, Athikia, Agios−Vasileios, III at Loutraki; in Argolida, IV−V at Nea−Kios, IV at Nafplio, Ermioni, Assini, Karya, Agia−Triada, III at Lygourio; in Larisa, III at Larisa; and on the Islands of Zakynthos, VI at Keri, Lithakia, V−VI at Agalas, Maries, Mouzaki, V at Zakynthos, Volimes, Ampelokipoi; on Kephallinia, IV−V at Metaxata, IV at Argostoli, Agios−Nikolaos, Karavomylos, Skala, Agia−Eirini, Svoronata, Agia−Thekla, Poros, Sami, Spartia; on Ithaki, IV−V at Ithaki; on Lefkada, IV at Lefkada, Agios−Ilias, Poros, Syvros, Karya; on Kerkyra, IV at Magoulades, Ano−Korakiana, Kavvadades, Pagoi, Karousades, III at Kerkyra, Agios−Matthaios, Peroulades, Liapades, Spartylas, Sokraki, Velonades, Agioi−Deka; on Kalamos, III at Kalamos; on Paxoi, III at Paxoi.						
CSEM		Mw6.2. M_0=2.6±0.9×10^{18}Nm. Fault plane solution NP1:ϕ_S222°,δ50°,λ146°. NP2:ϕ_S335°, δ65°,λ45°. Principal Axes: T Plg49°,Azm196°; N Plg39°,Azm358°; P Plg9°,Azm96°.						
CSEM		Mw6.3. M_O=3.1?±2.0×10^{18}Nm. Fault plane solution NP1:ϕ_S191°,δ23°,λ−7°. NP2:ϕ_S287°, δ87°,λ−113°. Principal axes: T Plg38°,Azm38°; N Plg23°,Azm289°; P Plg43°,Azm175°						
NEIC		Mw6.6(HRV), Me6.2(GS). Casualties.						
NEIC		Radiated energy from the USGS moment tensor solution: 4.1±0.8×10^{13}Nm/21						
NEIC		Moment tensor solution: s50, scale 10^{18}Nm; M_{rr}1.92; $M_{\theta\theta}$0.03; $M_{\phi\phi}$−1.95; $M_{r\theta}$3.26; $M_{r\phi}$−1.23; $M_{\theta\phi}$1.45. Depth 35km; Principal axes: T 4.37,Plg53°,Azm2°; N −0.27,Plg23°, Azm126°; P −4.10,Plg27°,Azm228°. Best double couple: $M_0$4.2×10^{18}Nm; NP1:ϕ_S0°,δ27°, λ148°. NP2:ϕ_S120°,δ76°,λ67°.						
NEIC		Mw 6.4 (GS), 6.3 (CSEM). Ms 6.3 (BRK). ML 6.1 (THE). Several people injured and considerable damage to buildings at Amalias, Gargalianoi, Kalamai, Kiparissia, Meligalas, Pirgos and other parts of western Peloponnisos. One house destroyed on Zakinthos. Felt in much of Greece as far as Crete. Also felt on Sicily. Complex event observed on broadband displacement seismograms.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c93; Mantle waves: s31,c70; Half duration: 4s9. Moment tensor: Scale 10^{18}Nm; M_{rr}2.23±.05; $M_{\theta\theta}$0.79±.05; $M_{\phi\phi}$−3.02±.05; $M_{r\theta}$6.72±.29; $M_{r\phi}$−2.96±.18; $M_{\theta\phi}$4.59±.05. Principal Axes: T 8.35,Plg46°,Azm352°; N 1.31,Plg30°,Azm118°; P −9.66,Plg30°,Azm227°. Best double couple: $M_0$9.0×10^{18}Nm, NP1:ϕ_S8°,δ31°,λ162°. NP2:ϕ_S113°,δ81°,λ60°.						
		(399) Ionian Sea						
ISC	**XI**	**18 13 13 48.7**±.61	**37.48N**±.042	**20.91E**±.029	**46**±4.8	**5.3b**	**265**	**1-147**
PDG	XI	18 13 13 43.7	37.2N	19.1E	10	5.6D		**¶97xi2966**
MOS	XI	18 13 13 46.0	37.2N	20.8E	33	5.9b		
NEIC	XI	18 13 13 46.1	37.28N	20.88E	33	5.4b		
THE	XI	18 13 13 46.3	37.2N	21.1E	10	5.5L		
BJI	XI	18 13 13 47.3	36.88N	21.24E	56	5.6b,6.6s		
EIDC	XI	18 13 13 47.8	37.5N	21.1E	25	5.0b,5.1L		
ATH	XI	18 13 13 48.3	37.36N	20.65E	5	5.6L		
		(368) Southern Greece						
ISC	**XI**	**18 15 23 31.2**±.64	**37.31N**±.024	**21.17E**±.017	**27**±4.7	**5.1b,5.0s**	**475**	**1-159**
EIDC	XI	18 15 23 28.5	37.3N	21.3E	0	5.0b,5.0L		**¶97xi2996**
PDG	XI	18 15 23 29.5	37.1N	20.3E	14	5.1D		
RYD	XI	18 15 23 30.6	37.41N	21.03E	10	5.0b		
BJI	XI	18 15 23 30.8	37.29N	21.14E	39	5.0b,5.2s		
NEIC	XI	18 15 23 31.8	37.35N	21.17E	33	5.1b		
ATH	XI	18 15 23 32.4	37.25N	21.16E	16	5.0L		
MOS	XI	18 15 23 32.8	37.4N	21.1E	33	5.6b,5.0s		
THE	XI	18 15 23 34.8	37.3N	21.2E	20	4.6L		
		(178) Kermadec Islands						
ISC	**XI**	**18 15 41 28**±3.3	**29.20S**±.058	**177.54W**±.057	**38**±28	**5.7b,5.5s**	**409**	**16-168**
EIDC	XI	18 15 41 23.3	29.2S	177.3W	0	5.4b,5.6L		**¶97xi3000**
MOS	XI	18 15 41 28.8	29.0S	177.5W	44	6.0b		

NEIC XI 18 15 41 29.5 29.06S 177.65W 52 5.7b,5.5s
BJI XI 18 15 41 30.3 28.92S 177.28W 59 5.7b,5.6s
HRVD XI 18 15 41 32.5±.4 29.10S±.05 177.20W±.06 33±4.8
NEIC Mw5.8(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c38; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}4.94±.26; $M_{\theta\theta}$−1.47±.46; $M_{\phi\phi}$−3.47±.35; $M_{r\theta}$0.30±.68; $M_{r\phi}$3.85±.77; $M_{\theta\phi}$−0.91±.27. Principal Axes: T 6.44,Plg69°,Azm269°; N −1.22, Plg5°,Azm13°; P −5.21,Plg20°,Azm105°. Best double couple: $M_0$5.8×10^{17}Nm, NP1:ϕ_S205°, δ25°,λ103°. NP2:ϕ_S11°,δ66°,λ84°.

(169) Samoa region

ISC XI 19 12 09 25.4±.34 **14.7S**±.10 **175.79W**±.065 **33** **4.9b,5.4s** **217 4-168**
EIDC XI 19 12 09 20.9 15.2S 175.5W 0 4.7b **¶97xi3213**
BJI XI 19 12 09 24.4 14.71S 175.96W 18 5.2b,5.5s
NEIC XI 19 12 09 26.0 14.50S 175.88W 33 5.1b,5.4s
HRVD XI 19 12 09 28.5±.2 14.64S±.03 175.54W±.02 15
NEIC Mw5.7(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c61; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.31±.05; $M_{\theta\theta}$0.08±.07; $M_{\phi\phi}$0.23±.08; $M_{r\theta}$−0.57±.19; $M_{r\phi}$0.58±.24; $M_{\theta\phi}$3.80±.05. Principal Axes: T 3.96,Plg0°,Azm314°; N −0.12, Plg77°,Azm223°; P −3.84,Plg13°,Azm44°. Best double couple: $M_0$3.9×10^{17}Nm, NP1:ϕ_S89°, δ81°,λ−9°. NP2:ϕ_S180°,δ81°,λ−171°.

(153) South Sandwich Islands region

ISC XI 20 06 08 11.0±.28 **59.07S**±.059 **25.6W**±.12 **33** **5.0b,5.2s** **142 14-159**
BJI XI 20 06 08 08.1 58.60S 26.25W 37 5.8s **¶97xi3406**
NEIC XI 20 06 08 10.3 59.06S 25.51W 33 5.2b,5.2s
EIDC XI 20 06 08 11.1 59.0S 25.7W 22 4.9b
HRVD XI 20 06 08 17.0±.3 59.32S±.04 25.14W±.08 27±3.0
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c52; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}2.24±.08; $M_{\theta\theta}$−0.99±.11; $M_{\phi\phi}$−1.25±.09; $M_{r\theta}$0.29±.14; $M_{r\phi}$1.19±.29; $M_{\theta\phi}$−0.57±.07. Principal Axes: T 2.61,Plg73°,Azm276°; N −0.60, Plg7°,Azm31°; P −2.01,Plg15°,Azm123°. Best double couple: $M_0$2.3×10^{17}Nm, NP1:ϕ_S223°, δ30°,λ105°. NP2:ϕ_S27°,δ61°,λ82°.

(315) India-Bangladesh border region

ISC XI 21 11 23 03±1.2 **22.22N**±.024 **92.68E**±.021 **30**±8.9 **5.9b,5.7s** **621 4-166**
BJI XI 21 11 23 05.4 22.40N 92.79E 38 6.1b,5.9s **¶97xi3641**
MOS XI 21 11 23 06.2 22.3N 92.7E 49 6.5b,5.6s
NEIC XI 21 11 23 06.3 22.21N 92.70E 54 5.9b
EIDC XI 21 11 23 08.8 22.2N 92.7E 62 5.6b
NDI XI 21 11 23 09 22.0N 92.0E 6.0b
HRVD XI 21 11 23 09.1±.2 22.21N±.01 92.70E±.02 54
NEIC Mw6.1(GS), Me5.5(GS). Casualties.
NEIC Radiated energy from the USGS moment tensor solution: 4.4±1.5×10^{12}Nm/7
NEIC Moment tensor solution: s19, scale 10^{18}Nm; M_{rr}0.24; $M_{\theta\theta}$−0.65; $M_{\phi\phi}$0.41; $M_{r\theta}$−1.20; $M_{r\phi}$−0.09; $M_{\theta\phi}$0.67. Depth 50km; Principal axes: T 1.33,Plg42°,Azm140°; N 0.28,Plg32°, Azm264°; P −1.61,Plg31°,Azm17°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S161°,δ33°, λ169°. NP2:ϕ_S260°,δ84°,λ57°.
NEIC Mw 6.1 (HRV). Twenty-three people killed, 200 injured and a five-story building collapsed at Chittagong, Bangladesh. Houses damaged at Alikadam, Bandarban, Lama and Nakhyaungcharipara, Bangladesh. Felt in much of Bangladesh as far north as Rangpur and Rajshahi. Two events about 1.75 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c74; Mantle waves: s23,c36; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}0.32±.02; $M_{\theta\theta}$−0.62±.02; $M_{\phi\phi}$0.29±.02; $M_{r\theta}$−1.20±.02; $M_{r\phi}$−0.15±.02; $M_{\theta\phi}$0.84±.01. Principal Axes: T 1.47,Plg41°,Azm139°; N 0.16,Plg36°,Azm268°; P −1.64,Plg28°,Azm21°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S163°,δ37°,λ168°. NP2:ϕ_S263°,δ83°,λ54°.

(40) California-Nevada border region

ISC XI 22 17 20 36.9±.19 **37.64N**±.020 **118.99W**±.024 **7** **4.5b,4.3s** **124 0-150**
BJI XI 22 17 20 35.1 37.60N 118.90W 7 5.6b,5.2s **¶97xi3918**
NEIC XI 22 17 20 35.1 37.64N 118.93W 7 4.7b,4.3s
EIDC XI 22 17 20 37.1 37.5N 118.8W 0 4.3b,4.3s
NEIC M_L4.9(BRK), Mw4.8(BRK). Felt, After GM−P.
NEIC ML 4.8 (GM). Felt at Mammoth Lakes, California. Mo=2.1×10^{16}Nm (BRK).

(189) Loyalty Islands region

ISC XI 23 00 17 50±1.7 **21.73S**±.056 **170.21E**±.072 **59**±14 **5.1b,5.3s** **221 4-167**
EIDC XI 23 00 17 45.4 21.7S 170.5E 19 4.6b,4.6$_L$ **¶97xi3987**
NEIC XI 23 00 17 45.9 21.69S 170.34E 33 5.2b,5.2s
MOS XI 23 00 17 46.9 21.7S 170.4E 33 5.8b,5.3s
BJI XI 23 00 17 48.7 21.62S 170.38E 48 5.3b,5.4s
HRVD XI 23 00 17 49.1±.4 21.59S±.05 170.59E±.05 15
NEIC Mw5.6(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c35; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.96±.11; $M_{\theta\theta}$0.85±.09; $M_{\phi\phi}$1.11±.14; $M_{r\theta}$−1.82±.34; $M_{r\phi}$0.13±.36; $M_{\theta\phi}$1.85±.12. Principal Axes: T 3.12,Plg14°,Azm138°; N −0.03, Plg30°,Azm236°; P −3.09,Plg56°,Azm26°. Best double couple: $M_0$3.1×10^{17}Nm, NP1: ϕ_S194°,δ41°,λ−140°. NP2:ϕ_S72°,δ65°,λ−57°.

(223) Eastern Sea of Japan

ISC XI 23 03 50 58±1.1 **39.93N**±.019 **138.87E**±.025 **7**±6.4 **5.7b,5.5s** **564 1-161**
EIDC XI 23 03 50 58.0 40.0N 138.9E 0 5.3b,5.1$_L$ **¶97xi4018**
BJI XI 23 03 50 58.8 39.99N 139.11E 30 5.3b,5.9s
JMA XI 23 03 50 59.1±.1 39.97N±.01 138.84E±.02 41±4 5.6
NEIC XI 23 03 51 00.4 39.96N 138.83E 23 5.8b,5.2s
MOS XI 23 03 51 02.0 40.0N 138.8E 33 6.2b,5.6s
HRVD XI 23 03 51 04.5±.2 40.04N±.03 138.58E±.03 15
JMA Nodal plane solution: N65, Score 94%. NP1:ϕ_S63°,δ37°,λ167°. NP2:ϕ_S164°,δ81°,λ54°. Principle axes: T Plg42°,Azm40°; N Plg36°,Azm171°; P Plg27°,Azm282°.
NEIC Mw5.6(GS), Me5.5(GS). Felt I=VI MM.
NEIC Radiated energy from the USGS moment tensor solution: 3.8±0.6×10^{12}Nm/13
NEIC Mw 5.6 (HRV). Felt I=IV J1 in parts of Akita and Iwate Prefectures, Honshu. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s36, scale 10^{17}Nm; M_{rr}2.72; $M_{\theta\theta}$−0.90; $M_{\phi\phi}$−1.82; $M_{r\theta}$−0.23; $M_{r\phi}$0.25; $M_{\theta\phi}$−1.34. Depth 15km; Principal axes: T 2.77,Plg83°,Azm222°; N 0.01,Plg7°, Azm35°; P −2.78,Plg1°,Azm125°. Best double couple: $M_0$2.8×10^{17}Nm; NP1:ϕ_S222°,δ45°, λ100°. NP2:ϕ_S29°,δ46°,λ80°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c52; Mantle waves: s9,c12; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}3.16±.05; $M_{\theta\theta}$−0.41±.07; $M_{\phi\phi}$−2.75±.09; $M_{r\theta}$0.05±.19; $M_{r\phi}$0.73±.25; $M_{\theta\phi}$−0.88±.06. Principal Axes: T 3.25,Plg83°,Azm262°; N −0.12,Plg3°,Azm18°; P −3.12,Plg6°,Azm108°. Best double couple: $M_0$3.2×10^{17}Nm, NP1:ϕ_S202°,δ39°,λ95°. NP2:ϕ_S15°,δ52°,λ86°.

(274) Southern Sumatera

ISC XI 23 08 35 48.3±.90 **5.35S**±.042 **102.59E**±.047 **39**±7.9 **5.1b,4.6s** **146 2-152**
BJI XI 23 08 35 46.4 5.50S 102.52E 34 5.3b,4.9s **¶97xi4079**
NEIC XI 23 08 35 47.7 5.41S 102.52E 33 5.1b,4.8s
MOS XI 23 08 35 47.8 5.3S 102.5E 33 5.5b
KLM XI 23 08 35 48 5.4S 102.5E 33 4.5$_L$
EIDC XI 23 08 35 49.4 5.4S 102.4E 34 4.7b,4.4s
NEIC Felt I=II MM at Kepahiang and Liwa.
KLM Mb5.1

(200) Near north coast of New Guinea

ISC XI 23 18 36 37±1.8 **3.40S**±.035 **145.78E**±.041 **26**±13 **5.2b,4.6s** **145 2-167**
EIDC XI 23 18 36 34.0 3.4S 146.0E 0 5.0b,4.7s **¶97xi4173**
HRVD XI 23 18 36 37.2±.7 3.49S±.07 146.12E±.08 15
MOS XI 23 18 36 37.6 3.4S 145.8E 33 5.8b
NEIC XI 23 18 36 37.6 3.41S 145.75E 33 5.2b,4.6s
BJI XI 23 18 36 38.0 3.33S 145.80E 35 5.2b,4.8s
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c36; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.35±.53; $M_{\theta\theta}$−7.65±.45; $M_{\phi\phi}$2.30±.80; $M_{r\theta}$0.95±2.27; $M_{r\phi}$−5.57±1.53; $M_{\theta\phi}$1.90±.46. Principal Axes: T 9.61,Plg52°,Azm92°; N −1.27,Plg36°,Azm293°; P −8.34,Plg10°,Azm195°. Best double couple: $M_0$9.0×10^{16}Nm, NP1:ϕ_S250°,δ47°,λ37°. NP2:ϕ_S133°,δ64°,λ131°.
NEIC Mw5.3(HRV).

(9) Fox Islands

ISC XI 24 01 09 31.0±.22 **51.87N**±.048 **169.99W**±.041 **41**±.6* **5.2b,4.6s** **341 4-151**
EIDC XI 24 01 09 26.2 52.0N 169.9W 0 5.0b,4.5s **¶97xi4239**
BJI XI 24 01 09 28.8 52.06N 170.09W 29 5.5b,5.1s
NEIC XI 24 01 09 30.1 51.95N 169.87W 33 5.3b,4.5s
MOS XI 24 01 09 30.9 52.2N 169.9W 35 5.7b,4.6s
HRVD XI 24 01 09 31.5±.9 51.78N±.07 170.02W±.18 33±6.0
NEIC Mw5.1(HRV), M_L5.1(PMR).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c29; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.60±.40; $M_{\theta\theta}$−3.59±.31; $M_{\phi\phi}$−0.01±.52; $M_{r\theta}$3.60±1.07; $M_{r\phi}$1.48±1.07; $M_{\theta\phi}$−1.75±.66. Principal Axes: T 5.20,Plg68°,Azm338°; N 0.70,Plg0°,Azm68°; P −5.90,Plg22°,Azm158°. Best double couple: $M_0$5.6×10^{16}Nm, NP1: ϕ_S248°,δ23°,λ90°. NP2:ϕ_S68°,δ67°,λ90°.

(181) Fiji region

ISC XI 24 01 51 17±1.3 **13.4S**±.23 **174.2E**±.24 **33** **4.4b,4.7s** **15 28-89**
BJI XI 24 01 51 12.8 13.49S 174.26E 11 4.7b,5.9s **¶97xi4241**
EIDC XI 24 01 51 13.5 13.5S 174.3E 0 4.2b,4.3s
NEIC XI 24 01 51 16.5 13.47S 174.21E 33 4.8b
NEIC Poor solution.

(181) Fiji region

ISC XI 24 15 37 09.4±.21 **13.17S**±.052 **174.78E**±.045 **33** **5.0b,5.2s** **218 8-174**
EIDC XI 24 15 37 05.2 13.2S 174.9E 0 4.6b,5.2s **¶97xi4341**
NEIC XI 24 15 37 09.2 13.19S 174.78E 33 5.2b,5.3s
HRVD XI 24 15 37 10.0±.3 13.01S±.03 174.99E±.03 15
MOS XI 24 15 37 10.2 13.0S 174.8E 33 5.7b,5.2s
BJI XI 24 15 37 10.9 12.47S 175.47E 44 5.3b,5.3s
NEIC Mw5.7(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c61; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.62±.05; $M_{\theta\theta}$2.48±.06; $M_{\phi\phi}$0.14±.08; $M_{r\theta}$−2.08±.22; $M_{r\phi}$0.69±.19; $M_{\theta\phi}$−0.30±.06. Principal Axes: T 3.31,Plg20°,Azm190°; N 0.14, Plg5°,Azm282°; P −3.44,Plg69°,Azm26°. Best double couple: $M_0$3.4×10^{17}Nm, NP1:ϕ_S271°, δ25°,λ−102°. NP2:ϕ_S104°,δ65°,λ−84°.

(265) Minahassa Peninsula (Celebes)

ISC XI 25 12 14 36.1±.49 **1.21N**±.020 **122.56E**±.024 **46**±4.7 **5.8b,6.7s** **563 2-177**
EIDC XI 25 12 14 31.1 1.1N 122.5E 0 5.8b,6.8s **¶97xi4507**
BJI XI 25 12 14 33.3 1.21N 122.59E 23 5.9b,6.6s
NEIC XI 25 12 14 33.6 1.24N 122.54E 24 6.1b,6.8s
KLM XI 25 12 14 34 1.2N 122.5E 24 5.9$_L$
MOS XI 25 12 14 35.5 1.3N 122.5E 33 6.5b,6.6s
HRVD XI 25 12 14 42.9±.1 1.37N±.01 122.71E±.01 29±.5
NEIC Mw7.0(GS), Me6.9(GS). Damage I=VI MM.
NEIC Radiated energy from the P−wave first−motion solution: 4.7±0.8×10^{14}Nm/12
NEIC Mw 7.0 (HRV). Ms 6.7 (BRK). At least 90 buildings damaged I=VI MM in the Gorontalo area. Felt III MM at Manado. Mo=2.4×10^{19}Nm (PPT).
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S280°,δ75°,λ120°. NP2:ϕ_S34°,δ33°,λ28°. Principal axes: T Plg51°,Azm224°; P Plg24°,Azm347°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s19, scale 10^{19}Nm; M_{rr}1.73; $M_{\theta\theta}$−1.48; $M_{\phi\phi}$−0.26; $M_{r\theta}$−3.12; $M_{r\phi}$−0.27; $M_{\theta\phi}$−0.96. Depth 18km; Principal axes: T 3.65,Plg58°,Azm188°; N 0.00,Plg12°, Azm78°; P −3.65,Plg30°,Azm342°. Best double couple: $M_0$3.7×10^{19}Nm; NP1:ϕ_S41°,δ19°, λ51°. NP2:ϕ_S261°,δ76°,λ102°.
KLM Mb6.1
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c108; Mantle waves: s42,c104; Half duration: 8s3. Moment tensor: Scale 10^{19}Nm; M_{rr}2.62±.03; $M_{\theta\theta}$−2.82±.02; $M_{\phi\phi}$0.20±.02; $M_{r\theta}$−3.08±.09; $M_{r\phi}$0.23±.06; $M_{\theta\phi}$0.33±.02. Principal Axes: T 4.01,Plg66°,Azm183°; N 0.23,Plg1°,Azm275°; P −4.24,Plg24°,Azm6°. Best double couple: $M_0$4.1×10^{19}Nm, NP1:ϕ_S98°,δ21°,λ93°. NP2:ϕ_S275°,δ69°,λ89°.

(221) Kuril Islands

ISC XI 25 17 01 34.2±.14 **46.45N**±.028 **153.35E**±.029 **19** **5.5b,4.9s** **504 4-154**
SKHL XI 25 17 01 33.0 46.4N±.10 153.5E±.10 19±3 **¶97xi4551**
BJI XI 25 17 01 35.4 46.79N 153.13E 27 5.4b,5.1s
NEIC XI 25 17 01 36.2 46.53N 153.38E 33 5.5b,4.8s
EIDC XI 25 17 01 36.9 46.6N 153.2E 29 5.1b,4.9s
MOS XI 25 17 01 38.1 46.8N 153.4E 39 5.8b,5.0s

(274) Southern Sumatera

ISC XI 27 00 20 27±1.8 **4.55S**±.050 **101.80E**±.057 **19**±13 **5.0b,4.7s** **151 1-157**
DJA XI 27 00 20 23.1±.92 5.2S 101.0E 77±3.6 5.8$_L$,5.3b **¶97xi4766**
KLM XI 27 00 20 29 4.5S 101.8E 33 4.4$_L$
MOS XI 27 00 20 29.1 4.6S 101.8E 33 5.6b
BJI XI 27 00 20 29.4 4.88S 101.98E 53 5.1b,4.9s
NEIC XI 27 00 20 29.4 4.54S 101.83E 33 5.0b,4.7s
EIDC XI 27 00 20 31.2 4.6S 101.8E 36 4.7b,4.7s
DJA Error ellipse is semi−major=38.3km semi−minor=3.7km azimuth=44
KLM Mb5.0
NEIC Felt I=II MM at Bengkulu.

(337) Eastern Caucasus

ISC XI 27 17 34 30±1.1 **41.86N**±.027 **45.37E**±.027 **30**±8.4 **5.1b,5.2s** **399 2-118**
EIDC XI 27 17 34 26.0 41.7N 45.2E 0 4.8b,5.1s **¶97xi4908**
MOS XI 27 17 34 28.1 42.0N 45.3E 10 5.7b,5.0s
NEIC XI 27 17 34 30.3 41.85N 45.33E 38 5.3b,5.2s
BJI XI 27 17 34 30.8 42.24N 45.43E 33 5.1b,5.4s
HRVD XI 27 17 34 36.9±.7 42.32N±.05 45.19E±.11 42±6.1
MOS Felt I=III MSK at Vladikavkaz; I=II−III at Nalchik,Pyatigorsk;I=II at Dagestan, Stavropol.
NEIC Mw5.3(HRV), Mw5.0(OBN). Damage I=VI MM.
NEIC Some buildings damaged at Tbilisi, Georgia. Felt I=VI MM at Khashmi and V MM at Tbilisi, Georgia. Felt III MM at Nalchik, Pyatigorsk and Vladikavkaz; II MM at Dagestan and Stavropol, Russia. Also felt at Yerevan, Armenia. Mo=3.5×10^{16}Nm (OBN).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c24; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.30±.69; $M_{\theta\theta}$−8.57±.75; $M_{\phi\phi}$1.27±1.15; $M_{r\theta}$−2.29±1.63; $M_{r\phi}$−3.08±1.32; $M_{\theta\phi}$−1.18±.83. Principal Axes: T 8.76,Plg68°,Azm105°; N 0.39,Plg20°,Azm257°; P −9.15,Plg10°,Azm351°. Best double couple: $M_0$9.0×10^{16}Nm, NP1: ϕ_S103°,δ39°,λ122°. NP2:ϕ_S244°,δ58°,λ66°.

(212) Bonin Islands region

ISC XI 28 00 02 21.1±.18 **27.73N**±.030 **142.58E**±.036 **33** **5.0b,5.0s** **220 1-164**
JMA XI 28 00 02 19.0±.1 27.65N±.01 142.74E±.03 103 **¶97xi4966**
BJI XI 28 00 02 19.7 27.81N 142.74E 33 5.0b,5.1s
NEIC XI 28 00 02 20.7 27.71N 142.59E 33 5.1b,4.9s
MOS XI 28 00 02 21.2 27.7N 142.6E 33 5.6b,5.2s
EIDC XI 28 00 02 22.5 27.7N 142.7E 34 4.7b,4.1$_L$
HRVD XI 28 00 02 23.9±.7 27.47N±.07 142.80E±.08 38±5.2

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c28; Half duration: 1$\dot{s}$1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.27±.35; $M_{\theta\theta}$−1.43±.51; $M_{\phi\phi}$−3.84±.60; $M_{r\theta}$−2.28±.94; $M_{r\phi}$4.85±.92; $M_{\theta\phi}$−2.37±.42. Principal Axes: T 8.32,Plg60°,Azm233°; N −2.01,Plg23°,Azm10°; P −6.32,Plg19°,Azm108°. Best double couple: $M_0$7.3×10^{16}Nm, NP1: ϕ_S230°,δ33°,λ135°. NP2:ϕ_S0°,δ67°,λ65°.						
	(266) Molucca Passage						
ISC	**XI 29 03 42 02.7**±.62	**2.22N**±.025	**126.66E**±.035	**51**±5.8	**5.4b,5.3s**	**255**	**2-166**
EIDC	XI 29 03 41 57.3	2.2N	126.6E	0	5.4b,5.5L		¶97xi5190
NEIC	XI 29 03 42 01.6	2.21N	126.65E	43	5.5b,5.4s		
BJI	XI 29 03 42 01.9	2.26N	126.66E	47	5.4b,5.3s		
MOS	XI 29 03 42 02.9	2.4N	126.6E	44	5.9b,5.2s		
HRVD	XI 29 03 42 08.9±.2	2.09N±.03	126.49E±.03	34±2.3			
NEIC	Mw5.8(HRV)						
NEIC	Felt I=III MM at Tondano and II MM at Bitung, Sulawesi.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c73; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; M_{rr}4.20±.13; $M_{\theta\theta}$−0.20±.17; $M_{\phi\phi}$−3.99±.22; $M_{r\theta}$0.84±.29; $M_{r\phi}$−4.31±.35; $M_{\theta\phi}$−1.19±.15. Principal Axes: T 6.29,Plg64°,Azm65°; N −0.34, Plg13°,Azm183°; P −5.95,Plg22°,Azm278°. Best double couple: $M_0$6.1×10^{17}Nm, NP1: ϕ_S32°,δ26°,λ122°. NP2:ϕ_S178°,δ68°,λ76°.						
	(290) Timor Sea						
ISC	**XI 29 15 17 43**±1.0	**8.29S**±.037	**128.18E**±.043	**37**±9.9	**5.0b,5.0s**	**173**	**5-158**
DJA	XI 29 15 17 39.3±.32	9.0S	128.4E	33	5.8b,5.5D		¶97xi5286
NEIC	XI 29 15 17 41.7	8.29S	128.17E	25	5.2b,4.9s		
EIDC	XI 29 15 17 42.3	8.3S	128.1E	11	4.9b,5.1L		
MOS	XI 29 15 17 43.3	8.2S	128.1E	33	5.6b		
BJI	XI 29 15 17 44.0	8.14S	128.29E	45	5.1b,5.2s		
DJA	Error ellipse is semi−major=17.6km semi−minor=4.8km azimuth=174						
	(174) Tonga region						
ISC	**XII 04 05 33 01.9**±.35	**22.27S**±.081	**175.09W**±.080	**33**	**4.9b,5.2s**	**81**	**16-164**
EIDC	XII 04 05 32 58.3±.61	22.2S	175.0W	0	4.6b,5.2s		¶97xii0562
NEIC	XII 04 05 33 01.6	22.17S	175.13W	33	4.9b,5.3s		
BJI	XII 04 05 33 03.6	21.56S	174.72W	36	5.3b,5.5s		
HRVD	XII 04 05 33 03.7±.5	22.29S±.06	174.18W±.06	15			
EIDC	Error ellipse is semi−major=23.1km semi−minor=13.2km azimuth=158						
NEIC	Mw5.5(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c32; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.80±.05; $M_{\theta\theta}$0.28±.08; $M_{\phi\phi}$−1.08±.06; $M_{r\theta}$0.62±.12; $M_{r\phi}$1.30±.12; $M_{\theta\phi}$−0.09±.06. Principal Axes: T 1.66,Plg58°,Azm312°; N 0.15, Plg14°,Azm199°; P −1.81,Plg28°,Azm101°. Best double couple: $M_0$1.7×10^{17}Nm, NP1: ϕ_S159°,δ21°,λ48°. NP2:ϕ_S23°,δ75°,λ104°.						
	(218) Near east coast of Kamchatka						
ISC	**XII 04 22 41 51.0**±.61	**55.12N**±.043	**162.56E**±.051	**41**±6.0	**4.8b,5.2s**	**214**	**1-132**
BJI	XII 04 22 41 48.2	55.23N	162.35E	28	5.0b,5.7s		¶97xii0706
KRSC	XII 04 22 41 48.6	55.02N	162.90E	17	5.4b		
NEIC	XII 04 22 41 50.4	55.22N	162.62E	33	5.1b,5.1s		
MOS	XII 04 22 41 50.7	55.2N	162.6E	38	5.4b,5.4s		
EIDC	XII 04 22 41 53.4±.54	55.3N	162.5E	42±3.7	4.4b,5.0L		
HRVD	XII 04 22 41 55.5±.4	54.89N±.05	163.15E±.08	15			
KRSC	Felt I=III MSK Kronoki						
NEIC	Mw5.5(HRV).						
EIDC	Error ellipse is semi−major=14.9km semi−minor=10.3km azimuth=146						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c51; Half duration: 1$\dot{s}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.61±.05; $M_{\theta\theta}$−0.03±.07; $M_{\phi\phi}$−1.58±.06; $M_{r\theta}$1.00±.21; $M_{r\phi}$1.11±.28; $M_{\theta\phi}$−0.79±.07. Principal Axes: T 2.22,Plg67°,Azm330°; N 0.20, Plg12°,Azm211°; P −2.42,Plg20°,Azm116°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S187°,δ27°,λ63°. NP2:ϕ_S36°,δ66°,λ103°.						
	(218) Near east coast of Kamchatka						
ISC	**XII 05 08 08 52.0**±.51	**55.15N**±.037	**162.45E**±.047	**55**±5.1	**5.0b,5.3s**	**251**	**1-160**
KRSC	XII 05 08 08 47.1	55.07N	162.98E	9	5.2b		¶97xii0808
BJI	XII 05 08 08 48.6	55.37N	162.00E	25	4.9b,5.6s		
MOS	XII 05 08 08 48.8	55.3N	162.5E	22	5.4b,5.6s		
NEIC	XII 05 08 08 49.8	55.28N	162.44E	33	5.2b,5.1s		
HRVD	XII 05 08 08 55.0±.3	54.87N±.04	163.08E±.06	20±2.3			
EIDC	XII 05 08 08 55.6±3.41	55.2N	162.5E	69±31.7	4.5b,5.2s		
NEIC	Mw5.5(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c46; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.26±.04; $M_{\theta\theta}$−0.07±.05; $M_{\phi\phi}$−1.20±.05; $M_{r\theta}$0.92±.14; $M_{r\phi}$1.26±.18; $M_{\theta\phi}$−0.42±.05. Principal Axes: T 2.03,Plg63°,Azm317°; N −0.01, Plg9°,Azm209°; P −2.03,Plg25°,Azm114°. Best double couple: $M_0$2.0×10^{17}Nm, NP1: ϕ_S185°,δ22°,λ64°. NP2:ϕ_S32°,δ71°,λ100°.						
EIDC	Error ellipse is semi−major=16.4km semi−minor=10.2km azimuth=148						
	(218) Near east coast of Kamchatka						
ISC	**XII 05 11 26 53.8**±.81	**54.80N**±.023	**162.01E**±.029	**25**±5.9	**6.1b,7.4s**	**859**	**0-164**
EIDC	XII 05 11 26 51.0±.47	54.9N	162.0E	0	5.4b,7.4s		¶97xii0833
KRSC	XII 05 11 26 51.0	54.64N	162.55E	10	6.7b		
BJI	XII 05 11 26 54.5	54.82N	161.90E	42	5.7b,8.0s		
NEIC	XII 05 11 26 54.6	54.84N	162.04E	33	6.3b,7.6s		
MOS	XII 05 11 26 54.8	54.9N	161.9E	33	7.0b,7.9s		
HRVD	XII 05 11 27 21.3±.1	54.31N±.01	161.91E±.01	34±.3			
EIDC	Error ellipse is semi−major=16.1km semi−minor=11.0km azimuth=148						
KRSC	Felt I=IV MSK base Rodnikovaya, III Tigil, III Nachiki, V Paratunka, III Gorodok PVO , III−IV Koryaky, V−VI Rybachiy, II−III Ust−Khayryuzovo, III Apacha, V Mayak Kruglyy, III Paujhetka, III Ozernovskiy, III−IV GMS Vodopadnaya, III Sobolevo, I Ossora, V S−S Berezovaya, II Ust−Bolsheresk, IV Severo−Kurilsk, V Ust−Kamchatsk, VI−VII Kronoki, V Krutoberegovo, V M. Afrika, VI−VII P. Kronoki, VI−VII M. Kozlova, VI−VIII Mayak Kronotskiy, VI−VII Gms Kronoki, IV Nikolskoe, VI Laguna Kalygir, IV Klyuchi, V−VI Zaozernyy, V−VI Petropavlovsk, III Esso, VI−VII M. Shipunskiy, IV Milkovo, IV Kozyrevsk, VI Zhupanovo, V Elizovo						
NEIC	Mw7.8(HRV), Me7.2(GS). Tsunami generated.						
NEIC	Radiated energy from the USGS moment tensor solution: 1.5±0.2×10^{15}Nm/24						
NEIC	Moment tensor solution: s39, scale 10^{20}Nm; M_{rr}1.82; $M_{\theta\theta}$−0.26; $M_{\phi\phi}$−1.55; $M_{r\theta}$2.68; $M_{r\phi}$2.50; $M_{\theta\phi}$−0.88. Depth 10km; Principal axes: T 4.15,Plg57°,Azm327°; N −0.02,Plg9°, Azm223°; P −4.12,Plg31°,Azm127°. Best double couple: $M_0$4.1×10^{20}Nm; NP1:ϕ_S190°,δ16°, λ56°. NP2:ϕ_S45°,δ77°,λ99°.						
NEIC	Mw 7.7 (GS), 7.5 (OBN). Ms 7.7 (BRK). Felt I=VII MM in the epicentral area and V MM at Petropavlovsk-Kamchatskiy and Ust-Kamchatsk. Felt II MM at Severo-Kurilsk, Paramushir. Also felt aboard the cargo ship Stepan Krasheninnikov in the epicentral area. Tsunami generated with recorded wave heights (peak-to-trough) at the following selected tide stations: 15 cm on Adak and Unalaska, Alaska; 60 cm at Kahului, 52 cm at Haleiwa, 47 cm at Hilo, 30 cm at Hanalei, 12 cm on Midway, 10 cm at Snug Harbor and 5 cm at Honolulu, Hawaii. Complex earthquake with at least one event occurring about 14 seconds after the onset.						
MOS	Felt I=VI−VII MSK at Mayak Kronotskii; I=V at Ust−Kamchatsk,Petropavlovsk−Kamchatskii; I=II−III at Severo−Kurilsk.						
MOS	M_0=2.2×10^{20}Nm. Fault plane solution. NP1:ϕ_S193°,δ20°,λ76°. NP2:ϕ_S28°,δ71°,λ95°. Principal axes: T Plg64°,Azm306°; N Plg5°,Azm207°; P Plg26°,Azm114°						
MOS	Seismic moment Mo=2.2×10^{20}Nm (after OBN)						
MOS	Focal mechanism: C76,D11; NP1:ϕ_S193°,δ20°,λ76°. NP2:ϕ_S28°,δ71°,λ95°. Principle axes: T Plg64°,Azm306°; N Plg5°,Azm207°; P Plg26°,Azm114°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c90; Mantle waves: s40,c113; Half duration: 17s1. Moment tensor: Scale 10^{20}Nm; M_{rr}3.61±.02; $M_{\theta\theta}$−0.87±.01; $M_{\phi\phi}$−2.74±.01; $M_{r\theta}$2.57±.05; $M_{r\phi}$2.80±.05; $M_{\theta\phi}$−1.79±.01. Principal Axes: T 5.25,Plg66°,Azm321°; N 0.14,Plg6°,Azm217°; P −5.39,Plg23°,Azm124°. Best double couple: $M_0$5.3×10^{20}Nm, NP1:ϕ_S202°,δ23°,λ74°. NP2:ϕ_S39°,δ68°,λ97°.						
	(219) Off east coast of Kamchatka						
ISC	**XII 05 11 35 21.0**±.86	**53.89N**±.048	**161.56E**±.073	**44**±8.1	**5.6b**	**216**	**1-145**
NEIC	XII 05 11 35 19.5	53.91N	161.55E	33	5.7b		¶97xii0834
MOS	XII 05 11 35 20.0	53.9N	161.6E	33	6.1b		
EIDC	XII 05 11 35 23.1±.41	53.9N	161.4E	45±3.6	5.0b		
KRSC	XII 05 11 35 24.1	53.86N	161.19E	32	5.9b		
EIDC	Error ellipse is semi−major=14.1km semi−minor=9.0km azimuth=143						
	(218) Near east coast of Kamchatka						
ISC	**XII 05 11 37 09.6**±.33	**54.53N**±.061	**162.31E**±.075	**33**	**5.4b**	**127**	**3-145**
MOS	XII 05 11 37 09.3	54.5N	162.3E	33	6.0b		¶97xii0835
NEIC	XII 05 11 37 09.3	54.51N	162.32E	33	5.6b		
EIDC	XII 05 11 37 10.1±.71	54.7N	162.1E	25±5.2	5.1b,4.9L		
EIDC	Error ellipse is semi−major=18.7km semi−minor=11.6km azimuth=146						
	(219) Off east coast of Kamchatka						
ISC	**XII 05 11 42 52**±1.8	**53.80N**±.043	**161.35E**±.064	**24**±13	**5.2b**	**224**	**1-143**
EIDC	XII 05 11 42 49.4±.51	53.9N	161.3E	0	5.1b		¶97xii0840
KRSC	XII 05 11 42 51.1	53.54N	161.80E	37	5.3b		
BJI	XII 05 11 42 52.3	53.86N	161.33E	33	5.2b		
MOS	XII 05 11 42 52.8	53.8N	161.5E	33	5.5b		
NEIC	XII 05 11 42 52.9	53.79N	161.34E	33	5.4b		
EIDC	Error ellipse is semi−major=16.7km semi−minor=10.9km azimuth=149						
	(218) Near east coast of Kamchatka						
ISC	**XII 05 11 45 31**±1.5	**54.73N**±.077	**162.6E**±.11	**58**±12	**5.1b**	**88**	**2-85**
EIDC	XII 05 11 45 24.6±.65	54.7N	162.5E	0	4.8b,4.8L		¶97xii0841
MOS	XII 05 11 45 25.6	54.8N	162.4E	16	5.6b		
NEIC	XII 05 11 45 28.3	54.80N	162.52E	33	5.3b		
KRSC	XII 05 11 45 34.4	54.97N	161.97E	11	5.4b		
EIDC	Error ellipse is semi−major=22.4km semi−minor=14.6km azimuth=140						
KRSC	Felt I=III M. Shipunskiy						
	(218) Near east coast of Kamchatka						
ISC	**XII 05 11 48 41**±1.1	**54.38N**±.047	**162.27E**±.075	**31**±7.5	**5.3b,**7.3s	**196**	**0-143**
EIDC	XII 05 11 48 36.9±.61	54.4N	162.2E	0	4.9b,4.6L		¶97xii0842
KRSC	XII 05 11 48 38.5	54.29N	162.46E	10	5.7b		
NEIC	XII 05 11 48 40.9	54.44N	162.28E	33	5.4b		
MOS	XII 05 11 48 42.3	54.5N	162.3E	43	5.9b		
EIDC	Error ellipse is semi−major=21.7km semi−minor=12.8km azimuth=142						
	(219) Off east coast of Kamchatka						
ISC	**XII 05 14 23 05.5**±.59	**53.78N**±.036	**161.35E**±.058	**41**±5.1	**5.0b**	**234**	**1-150**
EIDC	XII 05 14 23 01.1±.49	53.8N	161.5E	0	4.8b,5.4L		¶97xii0901
KRSC	XII 05 14 23 01.9	53.56N	161.85E	19	5.3b		
BJI	XII 05 14 23 02.1	54.24N	161.05E	19	5.0b		
NEIC	XII 05 14 23 04.6	53.83N	161.46E	33	5.1b		
MOS	XII 05 14 23 04.7	53.9N	161.4E	33	5.5b		
EIDC	Error ellipse is semi−major=16.9km semi−minor=10.3km azimuth=146						
NEIC	Felt I=III MM at Petropavlovsk−Kamchatskiy.						
MOS	Felt I=II−III MSK at Petropavlovsk−Kamchatskii.						
	(219) Off east coast of Kamchatka						
ISC	**XII 05 16 25 54.7**±.56	**53.87N**±.037	**161.76E**±.046	**44**±5.1	**4.8b,5.4s**	**201**	**1-150**
KRSC	XII 05 16 25 49.7	53.76N	162.16E	6	5.0b		¶97xii0954
EIDC	XII 05 16 25 50.1±.46	53.9N	161.9E	0	4.8b,5.3s		
BJI	XII 05 16 25 51.6	54.37N	161.46E	21	4.8b,5.5s		
NEIC	XII 05 16 25 53.5	53.92N	161.83E	33	4.9b		
MOS	XII 05 16 25 53.9	54.0N	161.7E	33	5.2b		
EIDC	Error ellipse is semi−major=15.6km semi−minor=10.6km azimuth=142						
	(218) Near east coast of Kamchatka						
ISC	**XII 05 16 27 09**±1.0	**53.92N**±.052	**160.9E**±.12	**55**±8.8	**5.1b,**5.7s	**166**	**1-144**
BJI	XII 05 16 27 00.0	54.10N	161.90E	33	5.1b,5.8s		¶97xii0956
MOS	XII 05 16 27 02.7	53.7N	162.1E	33	5.5b		
NEIC	XII 05 16 27 02.8	54.09N	161.88E	33	5.2b		
KRSC	XII 05 16 27 09.3	53.76N	161.06E	30	5.0b		
EIDC	XII 05 16 27 13.6±5.10	54.0N	160.8E	79±47.0	4.5b,5.0L		
KRSC	Felt I=IV M. Shipunskiy, II−III Petropavlovsk						
EIDC	Error ellipse is semi−major=17.7km semi−minor=12.0km azimuth=131						
	(219) Off east coast of Kamchatka						
ISC	**XII 05 18 48 20.7**±.80	**53.72N**±.022	**161.72E**±.028	**17**±5.6	**6.1b,6.5s**	**757**	**1-162**
KRSC	XII 05 18 48 21.2	53.68N	161.85E	24	6.1b		¶97xii1025
BJI	XII 05 18 48 21.3	54.01N	161.46E	31	5.9b,6.9s		
MOS	XII 05 18 48 22.2	53.7N	161.6E	33	6.4b,6.7s		
NEIC	XII 05 18 48 22.7	53.75N	161.75E	33	6.2b,6.5s		
EIDC	XII 05 18 48 25.4±.39	53.9N	161.5E	46±2.8	5.5b,6.5s		
HRVD	XII 05 18 48 28.3±.2	53.68N±.02	161.96E±.03	16			
KRSC	Felt I=I−II Severo−Kurilsk, III Nachiki, Afrika, Petropavlovsk						
MOS	Felt I=III−IV MSK at Petropavlovsk−Kamchatskii; I=I−II at Severo−Kurilsk.						
MOS	M_O=9.3×10^{18}Nm						
NEIC	Mw6.6(OBN), Me6.5(GS)						
NEIC	Radiated energy from the P−wave first−motion solution: 1.1±0.2×10^{14}Nm/18						
NEIC	Mw 6.5 (HRV), 6.4 (GS). Ms 6.4 (BRK). Felt I=IV MSK at Petropavlovsk-Kamchatskiy. Also felt II MSK at Severo-Kurilsk, Paramushir. Mo=9.3×10^{18}Nm (OBN).						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S195°,δ5°,λ90°. NP2:ϕ_S15°,δ85°,λ90°. Principal axes: T Plg50°,Azm285°; P Plg40°,Azm105°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s47, scale 10^{18}Nm; M_{rr}0.54; $M_{\theta\theta}$0.20; $M_{\phi\phi}$−0.74; $M_{r\theta}$1.02; $M_{r\phi}$3.52; $M_{\theta\phi}$0.47. Depth 16km; Principal axes: T 3.81,Plg48°,Azm296°; N −0.11,Plg10°,Azm194°; P −3.70,Plg40°,Azm96°. Best double couple: $M_0$3.8×10^{18}Nm; NP1:ϕ_S126°,δ11°,λ21°. NP2: ϕ_S15°,δ86°,λ100°.						
EIDC	Error ellipse is semi−major=15.1km semi−minor=9.6km azimuth=155Aftershock: abbreviated analysis						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c77; Mantle waves: s4,c4; Half duration: 4s0. Moment tensor: Scale 10^{18}Nm; M_{rr}2.70±.06; $M_{\theta\theta}$0.34±.07; $M_{\phi\phi}$−3.04±.08; $M_{r\theta}$1.22±.17; $M_{r\phi}$4.14±.19; $M_{\theta\phi}$−1.66±.07. Principal Axes: T 4.89,Plg63°,Azm279°; N 0.98,Plg4°,Azm18°; P −5.87,Plg27°,Azm110°. Best double couple: $M_0$5.4×10^{18}Nm, NP1:ϕ_S212°,δ19°,λ104°. NP2:ϕ_S17°,δ72°,λ85°.						
	(219) Off east coast of Kamchatka						
ISC	**XII 05 19 04 02**±1.4	**53.77N**±.030	**161.54E**±.041	**2**±8.5	**5.5b,**6.2s	**367**	**1-150**
KRSC	XII 05 19 04 03.9	53.82N	161.72E	8	5.5b		¶97xii1036
BJI	XII 05 19 04 04.2	54.17N	161.25E	22	5.4b,6.2s		
MOS	XII 05 19 04 05.4	53.6N	161.8E	33	5.9b		
NEIC	XII 05 19 04 06.7	53.79N	161.60E	33	5.5b		
EIDC	XII 05 19 04 09.5±.48	53.9N	161.5E	39±3.7	4.9b		
EIDC	Error ellipse is semi−major=17.5km semi−minor=10.1km azimuth=147						
	(219) Off east coast of Kamchatka						
ISC	**XII 05 20 06 49.0**±.62	**53.68N**±.042	**161.69E**±.048	**39**±5.7	**4.8b,5.5s**	**187**	**1-162**
BJI	XII 05 20 06 45.9	54.33N	161.34E	20	4.8b,5.7s		¶97xii1067
MOS	XII 05 20 06 47.5	53.6N	161.9E	33	5.2b		
NEIC	XII 05 20 06 48.3	53.73N	161.71E	33	5.1b		

KRSC XII 05 20 06 50.5 53.79N 161.39E 16 5.1b
EIDC XII 05 20 06 50.6±.73 53.7N 161.6E 35±5.0 4.4b,5.3s
EIDC Error ellipse is semi−major=16.0km semi−minor=10.5km azimuth=159Aftershock: abbreviated analysis

(219) Off east coast of Kamchatka

ISC XII 05 21 19 44.3±.62 53.77N±.042 161.87E±.052 43±5.4 5.1b,5.6s 249 1-145
KRSC XII 05 21 19 40.6 53.70N 162.30E 14 5.2b ¶97xii1099
BJI XII 05 21 19 41.3 54.20N 161.30E 14 5.0b,5.5s
NEIC XII 05 21 19 43.4 53.86N 161.91E 33 5.2b
MOS XII 05 21 19 43.9 53.9N 161.8E 36 5.5b
EIDC XII 05 21 19 44.7±.96 53.9N 161.9E 29±6.9 4.6b,5.2L
EIDC Error ellipse is semi−major=17.4km semi−minor=11.2km azimuth=156Aftershock: abbreviated analysis

(219) Off east coast of Kamchatka

ISC XII 05 21 24 21±1.3 53.75N±.037 161.52E±.042 27±9.7 5.2b,5.3s 328 1-162
BJI XII 05 21 24 19.3 54.17N 161.65E 37 4.9b,5.6s ¶97xii1103
MOS XII 05 21 24 21.5 53.8N 161.6E 35 5.5b
NEIC XII 05 21 24 21.6 53.79N 161.59E 33 5.2b,5.3s
KRSC XII 05 21 24 21.7 53.61N 161.74E 43 5.2b
EIDC XII 05 21 24 25.0±.54 53.8N 161.5E 46±4.7 4.8b,5.4s
EIDC Error ellipse is semi−major=15.5km semi−minor=10.6km azimuth=153Aftershock: abbreviated analysis

(219) Off east coast of Kamchatka

ISC XII 05 22 37 27.2±.57 53.83N±.035 161.72E±.042 42±5.0 5.1b,4.8s 335 1-150
BJI XII 05 22 37 23.6 54.30N 161.24E 15 4.9b,4.9s ¶97xii1127
KRSC XII 05 22 37 25.0 53.71N 162.10E 30 5.1b
MOS XII 05 22 37 25.8 53.8N 161.8E 33 5.6b
NEIC XII 05 22 37 26.2 53.88N 161.76E 33 5.2b,4.7s
EIDC XII 05 22 37 29.5±.81 54.0N 161.6E 47±6.6 4.7b,4.6s
EIDC Error ellipse is semi−major=16.1km semi−minor=10.3km azimuth=145Aftershock: abbreviated analysis

(213) Volcano Islands region

ISC XII 05 22 48 14.6±.22 25.30N±.044 144.89E±.040 33 5.0b,4.7s 153 13-165
NEIC XII 05 22 48 14.3 25.38N 144.84E 33 5.2b ¶97xii1131
MOS XII 05 22 48 14.4 25.4N 145.0E 33 5.5b
BJI XII 05 22 48 14.5 25.51N 144.47E 9 5.2b,4.6s
EIDC XII 05 22 48 14.7±.57 25.3N 145.0E 23±3.5 4.8b,4.8L
EIDC Error ellipse is semi−major=14.0km semi−minor=11.7km azimuth=85

(219) Off east coast of Kamchatka

ISC XII 06 00 21 40.4±.60 53.62N±.042 161.64E±.059 38±5.0 4.8b,5.4s 180 1-145
BJI XII 06 00 21 38.1 54.02N 160.92E 9 4.8b,5.7s ¶97xii1171
MOS XII 06 00 21 38.8 53.7N 161.5E 27 5.3b
KRSC XII 06 00 21 39.6 53.55N 161.83E 40 5.1b
NEIC XII 06 00 21 39.9 53.70N 161.68E 33 4.9b
EIDC XII 06 00 21 45.1±4.22 53.8N 161.5E 66±38.5 4.4b,5.1L
EIDC Error ellipse is semi−major=19.8km semi−minor=13.7km azimuth=146Aftershock: abbreviated analysis

(219) Off east coast of Kamchatka

ISC XII 06 00 25 07.3±.54 53.67N±.032 161.50E±.037 40±4.8 5.2b,5.6s 398 1-162
EIDC XII 06 00 25 03.4±.49 53.8N 161.6E 0 4.9b,5.3s ¶97xii1173
BJI XII 06 00 25 04.3 54.01N 160.95E 14 5.2b,5.9s
KRSC XII 06 00 25 04.8 53.62N 161.78E 13 5.2b
MOS XII 06 00 25 06.3 53.8N 161.5E 33 5.5b
NEIC XII 06 00 25 06.7 53.73N 161.57E 33 5.3b,5.5s
HRVD XII 06 00 25 12.1±.3 53.72N±.04 161.76E±.05 30
EIDC Error ellipse is semi−major=16.7km semi−minor=11.1km azimuth=146Aftershock: abbreviated analysis
NEIC Mw5.8(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c50; Mantle waves: s2,c2; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}3.89±.12; $M_{\theta\theta}$0.36±.16; $M_{\phi\phi}$−4.25±.16; $M_{r\theta}$1.44±.30; $M_{r\phi}$2.12±.38; $M_{\theta\phi}$−0.92±.16. Principal Axes: T 4.74,Plg71°,Azm324°; N 0.32,Plg12°,Azm197°; P −5.06,Plg15°,Azm104°. Best double couple: $M_0$4.9×10^{17}Nm, NP1:ϕ_S177°,δ32°,λ67°. NP2:ϕ_S24°,δ61°,λ104°.

(218) Near east coast of Kamchatka

ISC XII 06 03 03 22.6±.59 54.62N±.039 162.77E±.051 39±5.4 4.9b,5.2s 249 1-145
EIDC XII 06 03 03 19.1±.59 54.8N 162.8E 0 4.7b,5.1s ¶97xii1218
KRSC XII 06 03 03 19.3 54.52N 163.22E 25 4.8b
MOS XII 06 03 03 21.8 54.7N 162.7E 33 5.7b
BJI XII 06 03 03 22.2 54.60N 162.90E 33 4.9b,5.8s
NEIC XII 06 03 03 22.2 54.69N 162.91E 33 5.1b,5.0s
HRVD XII 06 03 03 27.1±.7 54.55N±.09 163.23E±.12 34±6.8
EIDC Error ellipse is semi−major=18.1km semi−minor=12.2km azimuth=147Aftershock: abbreviated analysis
NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c31; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.28±.10; $M_{\theta\theta}$−0.23±.14; $M_{\phi\phi}$−1.05±.11; $M_{r\theta}$0.44±.25; $M_{r\phi}$0.40±.26; $M_{\theta\phi}$−0.71±.14. Principal Axes: T 1.42,Plg76°,Azm336°; N 0.15, Plg8°,Azm213°; P −1.57,Plg11°,Azm121°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S201°,δ34°,λ76°. NP2:ϕ_S38°,δ57°,λ99°.

(218) Near east coast of Kamchatka

ISC XII 06 05 09 50.5±.54 54.91N±.037 162.05E±.052 41±5.3 5.0b,4.8s 310 0-151
BJI XII 06 05 09 47.0 54.99N 161.85E 26 4.7b,5.3s ¶97xii1257
KRSC XII 06 05 09 48.9 54.82N 162.42E 21 5.4b
NEIC XII 06 05 09 49.6 54.97N 162.08E 33 5.2b,4.7s
MOS XII 06 05 09 49.7 55.0N 162.0E 33 5.5b
EIDC XII 06 05 09 52.8±.69 55.0N 162.0E 45±6.2 4.7b,4.7s
HRVD XII 06 05 09 56.9±.7 54.93N±.08 162.50E±.12 46±5.8
NEIC Mw5.3(HRV).
EIDC Error ellipse is semi−major=15.4km semi−minor=10.7km azimuth=145
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c33; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}9.32±.63; $M_{\theta\theta}$−2.58±.88; $M_{\phi\phi}$−6.74±.81; $M_{r\theta}$3.71±1.28; $M_{r\phi}$4.19±1.40; $M_{\theta\phi}$−4.50±.88. Principal Axes: T 10.9,Plg74°,Azm319°; N 0.2, Plg4°,Azm215°; P −11.1,Plg15°,Azm124°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S208°,δ30°,λ82°. NP2:ϕ_S37°,δ60°,λ95°.

(219) Off east coast of Kamchatka

ISC XII 06 05 15 46.7±.52 53.9N±.16 161.8E±.17 21 4.1b,5.2s 23 1-69
KRSC XII 06 05 15 46.0 53.67N 162.05E 21 4.1b ¶97xii1258
NEIC XII 06 05 15 48.1 53.89N 161.79E 33 4.2b
BJI XII 06 05 15 48.5 54.06N 161.45E 23 4.7b,5.5s
EIDC XII 06 05 15 49.7±.86 53.8N 162.0E 31±6.5 3.9b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=37.4km semi−minor=15.7km azimuth=152

(218) Near east coast of Kamchatka

ISC XII 06 06 37 05.9±.97 54.80N±.033 162.76E±.041 29±7.1 5.1b,5.2s 341 1-145
EIDC XII 06 06 37 02.7±.46 54.9N 162.6E 0 5.0b,5.6L ¶97xii1275
KRSC XII 06 06 37 02.8 54.72N 163.26E 17 5.8b
BJI XII 06 06 37 04.2 54.80N 162.70E 33 5.0b,5.4s
MOS XII 06 06 37 04.9 54.8N 162.9E 27 5.6b
NEIC XII 06 06 37 06.2 54.83N 162.77E 33 5.2b
HRVD XII 06 06 37 09.0±.4 54.57N±.05 162.19E±.08 39±3.7
EIDC Error ellipse is semi−major=15.0km semi−minor=10.6km azimuth=147Aftershock: abbreviated analysis
KRSC Felt I=II−III Petropavlovsk
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c41; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.81±.07; $M_{\theta\theta}$−0.28±.10; $M_{\phi\phi}$−1.53±.11; $M_{r\theta}$0.85±.20; $M_{r\phi}$0.68±.20; $M_{\theta\phi}$−0.73±.11. Principal Axes: T 2.16,Plg71°,Azm338°; N −0.04, Plg12°,Azm211°; P −2.12,Plg14°,Azm118°. Best double couple: $M_0$2.1×10^{17}Nm, NP1: ϕ_S192°,δ32°,λ68°. NP2:ϕ_S38°,δ60°,λ103°.

(218) Near east coast of Kamchatka

ISC XII 06 06 38 03.8±.74 54.67N±.031 161.43E±.041 60±7.0 5.6b,5.0s 405 2-163
BJI XII 06 06 37 57.4 54.84N 161.69E 39 5.0b,5.5s ¶97xii1276
MOS XII 06 06 38 00.3 54.6N 161.5E 32 5.7b
NEIC XII 06 06 38 00.7 54.69N 161.46E 33 5.7b,5.0s
EIDC XII 06 06 38 07.6±.70 54.8N 161.3E 79±6.6 5.2b,5.5s
HRVD XII 06 06 38 08.6±.3 54.52N±.03 162.08E±.04 46
KRSC XII 06 06 38 09.6 54.07N 160.83E 0 5.5b
NEIC Mw5.6(HRV).
EIDC Error ellipse is semi−major=15.2km semi−minor=9.5km azimuth=136Aftershock: abbreviated analysis
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c53; Mantle waves: s1,c1; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.38±.06; $M_{\theta\theta}$−0.50±.08; $M_{\phi\phi}$−1.87±.08; $M_{r\theta}$0.93±.12; $M_{r\phi}$0.81±.12; $M_{\theta\phi}$−1.28±.08. Principal Axes: T 2.70,Plg75°,Azm336°; N 0.21,Plg8°,Azm214°; P −2.91,Plg13°,Azm123°. Best double couple: $M_0$2.8×10^{17}Nm, NP1:ϕ_S202°,δ33°,λ75°. NP2:ϕ_S39°,δ58°,λ100°.
KRSC Felt I=III M. Shipunskiy

(679) Northwest Territories

ISC XII 06 08 06 50.6±.10 64.90N±.023 88.09W±.046 18 5.3b,4.7s 438 5-156
OTT XII 06 08 06 47.3 64.8N 88.2W 18 5.7N ¶97xii1301
EIDC XII 06 08 06 49.0±.42 64.9N 88.0W 0 5.2b,4.4s
NEIC XII 06 08 06 49.1 64.91N 88.09W 10 5.4b,4.5s
BJI XII 06 08 06 50.5 65.63N 88.36W 5 5.2b,5.7s
MOS XII 06 08 06 52.1 64.9N 88.1W 31 5.7b
OTT Wager Bay region, Northwest Territories Boothia Ungava seismic zone. 209km southwest from Repulse Bay, Northwest Territories
EIDC Error ellipse is semi−major=12.6km semi−minor=11.2km azimuth=108

(219) Off east coast of Kamchatka

ISC XII 06 10 05 05.1±.52 53.92N±.030 161.88E±.036 38±4.6 5.3b,5.5s 447 1-163
KRSC XII 06 10 05 00.2 53.78N 162.42E 13 5.5b ¶97xii1349
BJI XII 06 10 05 02.9 54.60N 161.22E 14 5.1b,5.9s
NEIC XII 06 10 05 04.5 53.96N 161.93E 33 5.4b,5.4s
MOS XII 06 10 05 04.7 53.9N 161.9E 39 5.7b
EIDC XII 06 10 05 07.8±.85 54.1N 161.9E 49±7.9 4.9b,5.4s
HRVD XII 06 10 05 10.1±.2 53.64N±.03 162.36E±.04 19±1.5
NEIC Mw5.7(HRV).
EIDC Error ellipse is semi−major=18.9km semi−minor=10.6km azimuth=142
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c61; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.64±.05; $M_{\theta\theta}$−0.45±.06; $M_{\phi\phi}$−2.19±.06; $M_{r\theta}$1.54±.18; $M_{r\phi}$1.90±.21; $M_{\theta\phi}$−1.23±.06. Principal Axes: T 3.61,Plg68°,Azm319°; N 0.13, Plg6°,Azm213°; P −3.73,Plg21°,Azm120°. Best double couple: $M_0$3.7×10^{17}Nm, NP1: ϕ_S198°,δ25°,λ75°. NP2:ϕ_S35°,δ66°,λ97°.

(219) Off east coast of Kamchatka

ISC XII 06 10 59 09.6±.91 53.95N±.025 161.87E±.030 29±6.4 5.6b,6.1s 635 1-163
EIDC XII 06 10 59 06.8±.45 54.1N 161.8E 0 5.5b,5.9s ¶97xii1372
KRSC XII 06 10 59 07.6 53.85N 162.03E 7 5.8b
BJI XII 06 10 59 09.0 54.26N 161.66E 32 5.5b,6.4s
MOS XII 06 10 59 10.0 53.9N 161.9E 36 6.0b
NEIC XII 06 10 59 10.0 53.97N 161.91E 33 5.7b,5.8s
HRVD XII 06 10 59 14.9±.1 53.85N±.01 162.29E±.02 18
EIDC Error ellipse is semi−major=15.1km semi−minor=9.6km azimuth=147
MOS Seismic moment Mo=8.1×10^{18}Nm (after OBN)
NEIC Mw6.6(OBN), Me5.7(GS).
NEIC Mw 6.1 (HRV), 5.9 (GS). Mo=8.1×10^{18}Nm (OBN).
NEIC Radiated energy from the P−wave first−motion solution: 9.1±2.4×10^{12}Nm/13
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S210°,δ25°,λ75°. NP2:ϕ_S46°,δ66°,λ97°. Principal axes: T Plg68°,Azm330°; P Plg21°,Azm131°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s35, scale 10^{17}Nm; M_{rr}6.41; $M_{\theta\theta}$0.74; $M_{\phi\phi}$−7.14; $M_{r\theta}$3.35; $M_{r\phi}$4.38; $M_{\theta\phi}$−1.97. Depth 23km; Principal axes: T 8.65,Plg67°,Azm328°; N 0.63,Plg14°,Azm202°; P −9.27,Plg18°,Azm107°. Best double couple: $M_0$9.0×10^{17}Nm; NP1:ϕ_S176°,δ29°,λ60°. NP2: ϕ_S29°,δ65°,λ106°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c83; Mantle waves: s26,c44; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}1.15±.01; $M_{\theta\theta}$−0.31±.01; $M_{\phi\phi}$−0.84±.01; $M_{r\theta}$0.72±.04; $M_{r\phi}$0.71±.04; $M_{\theta\phi}$−0.56±.01. Principal Axes: T 1.54,Plg69°,Azm325°; N 0.02,Plg7°,Azm218°; P −1.56,Plg20°,Azm125°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S204°,δ26°,λ75°. NP2:ϕ_S41°,δ65°,λ97°.

(218) Near east coast of Kamchatka

ISC XII 06 12 37 22.3±.48 54.85N±.027 162.04E±.036 41±4.4 5.3b,5.7s 533 0-159
BJI XII 06 12 37 18.9 55.01N 161.45E 16 5.0b,6.0s ¶97xii1406
NEIC XII 06 12 37 21.6 54.92N 162.10E 33 5.5b,5.6s
KRSC XII 06 12 37 21.8 54.82N 162.24E 21 5.6b
MOS XII 06 12 37 21.9 54.9N 162.1E 39 5.8b
EIDC XII 06 12 37 24.3±3.99 54.9N 162.0E 38±34.6 4.9b,5.7s
HRVD XII 06 12 37 28.2±.1 54.78N±.02 162.62E±.02 34
NEIC Mw5.9(HRV), Mw5.8(GS).
NEIC Moment tensor solution: s15, scale 10^{17}Nm; M_{rr}4.43; $M_{\theta\theta}$0.12; $M_{\phi\phi}$−4.54; $M_{r\theta}$1.02; $M_{r\phi}$2.43; $M_{\theta\phi}$−1.08. Depth 16km; Principal axes: T 5.15,Plg74°,Azm303°; N 0.31,Plg5°,Azm195°; P −5.46,Plg15°,Azm104°. Best double couple: $M_0$5.3×10^{17}Nm; NP1:ϕ_S186°,δ31°,λ80°. NP2: ϕ_S18°,δ60°,λ96°.
KRSC Felt I=V Mayak Kronozkiy
EIDC Error ellipse is semi−major=14.0km semi−minor=9.7km azimuth=139
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c73; Mantle waves: s9,c15; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}6.78±.09; $M_{\theta\theta}$−0.29±.12; $M_{\phi\phi}$−6.49±.12; $M_{r\theta}$1.65±.22; $M_{r\phi}$4.72±.23; $M_{\theta\phi}$−2.97±.12. Principal Axes: T 8.34,Plg73°,Azm286°; N 0.90,Plg2°,Azm21°; P −9.24,Plg17°,Azm111°. Best double couple: $M_0$8.8×10^{17}Nm, NP1:ϕ_S204°,δ28°,λ93°. NP2:ϕ_S20°,δ62°,λ88°.

(219) Off east coast of Kamchatka

ISC XII 06 12 43 31.6±.62 53.61N±.036 161.60E±.058 42±5.2 5.0b,5.5s 212 1-150
KRSC XII 06 12 43 29.1 53.61N 161.64E 6 5.3b ¶97xii1407
BJI XII 06 12 43 29.2 53.99N 161.03E 18 4.9b,5.4s
MOS XII 06 12 43 30.3 53.7N 161.7E 30 5.5b
NEIC XII 06 12 43 30.6 53.64N 161.63E 33 5.2b
EIDC XII 06 12 43 33.3±.42 53.7N 161.6E 39±3.4 4.6b,5.5L
KRSC Felt I=II M. Shipunskiy
EIDC Error ellipse is semi−major=14.4km semi−minor=9.1km azimuth=147

(219) Off east coast of Kamchatka

ISC XII 06 17 37 24.9±.53 53.90N±.033 161.88E±.041 40±4.7 5.1b,4.8s 290 1-150
KRSC XII 06 17 37 20.4 53.77N 162.35E 11 5.1b ¶97xii1480
BJI XII 06 17 37 22.6 54.29N 161.31E 18 4.9b,5.2s
MOS XII 06 17 37 24.1 54.0N 161.9E 33 5.6b
NEIC XII 06 17 37 24.2 53.98N 161.92E 33 5.3b,4.6s
EIDC XII 06 17 37 27.4±.38 54.1N 161.9E 37±2.6 4.7b,4.4s

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
EIDC	Error ellipse is semi−major=14.1km semi−minor=9.5km azimuth=153						
	(218) Near east coast of Kamchatka						
ISC	**XII 07 08 10 55.8**±.17	**54.14N**±.034	**162.75E**±.038	**24**	**5.2b,5.3s**	**350**	**1-145**
KRSC	XII 07 08 10 55.0	54.19N	162.80E	24	5.4b		**¶97xii1657**
BJI	XII 07 08 10 55.1	54.10N	162.90E	33	4.9b,5.8s		
MOS	XII 07 08 10 55.9	54.1N	162.7E	33	5.5b		
NEIC	XII 07 08 10 57.1	54.15N	162.90E	33	5.3b,5.1s		
EIDC	XII 07 08 10 58.4±.51	54.4N	162.5E	32±3.5	4.7b,5.3s		
HRVD	XII 07 08 11 01.6±.4	54.21N±.06	163.05E±.08	15±2.7			
NEIC	Mw5.4(HRV).						
EIDC	Error ellipse is semi−major=15.5km semi−minor=9.8km azimuth=146						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c38; Half duration: 1s3. Moment tensor: Scale 10^{16}Nm; M_{rr}9.12±.40; $M_{\theta\theta}$−1.49±.51; $M_{\phi\phi}$−7.63±.43; $M_{r\theta}$6.65±1.92; $M_{r\phi}$9.28±2.33; $M_{\theta\phi}$−6.61±.50. Principal Axes: T 14.2,Plg66°,Azm310°; N 2.7, Plg2°,Azm214°; P −16.9,Plg24°,Azm123°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S208°,δ21°,λ83°. NP2:ϕ_S35°,δ69°,λ93°.						
	(186) Vanuatu (New Hebrides)						
ISC	**XII 07 16 23 21.3**±.68	**13.18S**±.075	**166.4E**±.11	**33**	**4.4b,5.0s**	**63**	**5-169**
EIDC	XII 07 16 23 17.8±.99	13.2S	166.6E	0	4.4b,4.0L		**¶97xii1736**
BJI	XII 07 16 23 20.5	13.20S	166.50E	33	5.2b,5.9s		
NEIC	XII 07 16 23 20.5	13.20S	166.53E	33	4.8b,4.2s		
EIDC	Error ellipse is semi−major=28.6km semi−minor=23.0km azimuth=140						
NEIC	Less reliable solution.						
	(218) Near east coast of Kamchatka						
ISC	**XII 07 17 56 17.4**±.13	**54.64N**±.026	**162.83E**±.034	**22**	**5.4b,6.2s**	**553**	**1-151**
EIDC	XII 07 17 56 15.6±.44	54.9N	162.7E	0	5.1b,6.1s		**¶97xii1751**
KRSC	XII 07 17 56 17.6	54.60N	163.17E	22	5.9b		
BJI	XII 07 17 56 18.3	54.90N	162.57E	40	5.2b,6.7s		
NEIC	XII 07 17 56 18.7	54.66N	162.88E	33	5.6b,6.0s		
MOS	XII 07 17 56 18.8	54.8N	162.8E	33	6.2b,6.6s		
HRVD	XII 07 17 56 22.1±.1	54.50N±.01	163.08E±.02	15			
EIDC	Error ellipse is semi−major=15.7km semi−minor=9.6km azimuth=152						
NEIC	Mw6.5(OBN), Me6.0(GS).						
NEIC	Mw 6.2 (GS), 6.2 (HRV). Mo=6.0×10^{18}Nm (OBN).						
NEIC	Radiated energy from the P−wave first−motion solution: 2.0±0.3×10^{13}Nm/18						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S205°,δ12°,λ90°. NP2:ϕ_S25°,δ78°,λ90°. Principal axes: T Plg57°,Azm295°; P Plg33°,Azm115°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s50, scale 10^{18}Nm; M_{rr}0.52; $M_{\theta\theta}$−0.54; $M_{\phi\phi}$0.02; $M_{r\theta}$1.39; $M_{r\phi}$1.84; $M_{\theta\phi}$0.04. Depth 5km; Principal axes: T 2.52,Plg49°,Azm302°; N −0.37,Plg7°,Azm40°; P −2.16,Plg40°,Azm135°. Best double couple: $M_0$2.3×10^{18}Nm; NP1:ϕ_S276°,δ8°,λ147°. NP2: ϕ_S39°,δ86°,λ83°.						
MOS	Seismic moment Mo=6.0×10^{18}Nm (after OBN)						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c75; Mantle waves: s25,c42; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}1.06±.01; $M_{\theta\theta}$−0.26±.01; $M_{\phi\phi}$−0.80±.01; $M_{r\theta}$1.07±.05; $M_{r\phi}$1.50±.05; $M_{\theta\phi}$−0.47±.01. Principal Axes: T 2.12,Plg60°,Azm308°; N 0.00,Plg2°,Azm214°; P −2.13,Plg30°,Azm123°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S205°,δ15°,λ81°. NP2:ϕ_S35°,δ75°,λ93°.						
	(219) Off east coast of Kamchatka						
ISC	**XII 07 23 05 48.9**±.91	**53.65N**±.030	**161.84E**±.038	**19**±6.3	**5.2b,5.5s**	**410**	**1-150**
EIDC	XII 07 23 05 47.8±.50	53.8N	161.7E	0	4.9b,5.5s		**¶97xii1804**
BJI	XII 07 23 05 48.6	54.22N	161.18E	11	5.0b,5.9s		
KRSC	XII 07 23 05 49.2	53.66N	162.07E	23	5.5b		
MOS	XII 07 23 05 50.4	53.7N	161.9E	33	5.6b		
NEIC	XII 07 23 05 50.8	53.69N	161.91E	33	5.3b,5.4s		
HRVD	XII 07 23 05 57.0±.2	53.69N±.03	162.16E±.04	32±1.7			
EIDC	Error ellipse is semi−major=15.4km semi−minor=11.0km azimuth=149						
NEIC	Mw5.6(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c63; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.22±.05; $M_{\theta\theta}$0.06±.08; $M_{\phi\phi}$−2.28±.07; $M_{r\theta}$0.35±.12; $M_{r\phi}$1.70±.15; $M_{\theta\phi}$−1.26±.06. Principal Axes: T 2.80,Plg71°,Azm265°; N 0.55, Plg8°,Azm19°; P −3.35,Plg17°,Azm112°. Best double couple: $M_0$3.1×10^{17}Nm, NP1:ϕ_S214°, δ29°,λ107°. NP2:ϕ_S15°,δ63°,λ81°.						
	(186) Vanuatu (New Hebrides)						
ISC	**XII 08 01 47 39**±3.0	**14.44S**±.049	**167.31E**±.044	**26**±21	**5.2b,5.2s**	**235**	**3-172**
MOS	XII 08 01 47 39.9	14.3S	167.4E	33	5.6b,5.1s		**¶97xii1837**
BJI	XII 08 01 47 39.9	14.40S	167.20E	33	5.3b,5.5s		
NEIC	XII 08 01 47 39.9	14.40S	167.29E	33	5.3b,5.2s		
HRVD	XII 08 01 47 42.9±.2	14.49S±.02	167.30E±.02	26±2.2			
EIDC	XII 08 01 47 47.4±.58	14.4S	167.2E	80±3.3	4.6b,4.8s		
NEIC	Mw5.7(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c63; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.47±.06; $M_{\theta\theta}$2.44±.09; $M_{\phi\phi}$−1.97±.11; $M_{r\theta}$−0.18±.22; $M_{r\phi}$0.69±.23; $M_{\theta\phi}$3.63±.08. Principal Axes: T 4.49,Plg2°,Azm330°; N −0.35, Plg79°,Azm229°; P −4.14,Plg11°,Azm61°. Best double couple: $M_0$4.3×10^{17}Nm, NP1: ϕ_S105°,δ81°,λ−6°. NP2:ϕ_S196°,δ84°,λ−171°.						
EIDC	Error ellipse is semi−major=18.3km semi−minor=11.9km azimuth=145						
	(153) South Sandwich Islands region						
ISC	**XII 08 13 22 55.8**±.63	**58.79S**±.072	**25.1W**±.26	**33**	**4.3b,4.2s**	**31**	**14-153**
EIDC	XII 08 13 22 52.8±.67	58.8S	25.2W	0	4.4b,4.0s		**¶97xii1933**
BJI	XII 08 13 22 55.9	58.80S	25.00W	33	5.8s		
NEIC	XII 08 13 22 55.9	58.81S	25.03W	33	4.4b		
EIDC	Error ellipse is semi−major=26.0km semi−minor=22.2km azimuth=6						
	(219) Off east coast of Kamchatka						
ISC	**XII 08 21 06 14**±1.2	**53.81N**±.029	**161.70E**±.037	**33**±8.2	**5.4b,5.4s**	**476**	**1-150**
KRSC	XII 08 21 06 11.1	53.69N	162.17E	21	5.4b		**¶97xii2015**
MOS	XII 08 21 06 11.8	53.9N	161.7E	18	5.9b		
BJI	XII 08 21 06 11.9	54.33N	161.04E	13	5.3b,5.7s		
NEIC	XII 08 21 06 13.8	53.85N	161.78E	33	5.4b,5.2s		
EIDC	XII 08 21 06 16.2±.81	54.0N	161.6E	38±6.5	4.9b,5.6L		
HRVD	XII 08 21 06 18.8±.2	53.68N±.03	162.13E±.04	20			
NEIC	Mw5.6(HRV).						
EIDC	Error ellipse is semi−major=17.5km semi−minor=11.2km azimuth=148Aftershock: abbreviated analysis						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c49; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}2.05±.04; $M_{\theta\theta}$−0.70±.05; $M_{\phi\phi}$−1.35±.05; $M_{r\theta}$0.62±.13; $M_{r\phi}$0.79±.12; $M_{\theta\phi}$−1.16±.05. Principal Axes: T 2.27,Plg77°,Azm309°; N 0.18, Plg0°,Azm217°; P −2.45,Plg13°,Azm127°. Best double couple: $M_0$2.4×10^{17}Nm, NP1: ϕ_S217°,δ32°,λ89°. NP2:ϕ_S37°,δ58°,λ90°.						
	(219) Off east coast of Kamchatka						
ISC	**XII 08 22 19 55**±1.1	**53.80N**±.029	**161.70E**±.036	**30**±8.0	**5.4b,5.1s**	**490**	**1-158**
KRSC	XII 08 22 19 52.3	53.71N	161.99E	7	5.4b		**¶97xii2024**
EIDC	XII 08 22 19 52.6±.48	53.9N	161.6E	0	5.1b,4.7s		
MOS	XII 08 22 19 53.6	53.9N	161.7E	17	5.9b		
BJI	XII 08 22 19 53.9	54.26N	161.10E	16	5.3b,5.5s		
NEIC	XII 08 22 19 55.7	53.84N	161.77E	33	5.5b,5.0s		
HRVD	XII 08 22 20 01.2±.4	53.60N±.05	162.15E±.08	19±2.3			
EIDC	Error ellipse is semi−major=17.6km semi−minor=10.7km azimuth=148						
NEIC	Mw5.4(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c37; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.35±.04; $M_{\theta\theta}$−0.43±.05; $M_{\phi\phi}$−0.92±.05; $M_{r\theta}$0.11±.15; $M_{r\phi}$0.07±.18; $M_{\theta\phi}$−0.50±.05. Principal Axes: T 1.36,Plg87°,Azm341°; N −0.12, Plg2°,Azm212°; P −1.24,Plg3°,Azm122°. Best double couple: $M_0$1.3×10^{17}Nm, NP1:ϕ_S210°, δ42°,λ87°. NP2:ϕ_S34°,δ48°,λ93°.						
	(219) Off east coast of Kamchatka						
ISC	**XII 09 13 02 46.3**±.88	**53.92N**±.031	**161.84E**±.042	**24**±6.1	**5.2b,5.0s**	**385**	**1-145**
EIDC	XII 09 13 02 44.0±.49	54.0N	161.8E	0	4.9b,4.8s		**¶97xii2171**
BJI	XII 09 13 02 44.8	54.61N	161.74E	26	5.1b,5.6s		
KRSC	XII 09 13 02 45.0	53.88N	162.08E	19	5.3b		
NEIC	XII 09 13 02 47.5	53.97N	161.90E	33	5.4b,4.8s		
MOS	XII 09 13 02 48.2	54.0N	161.8E	42	5.7b		
HRVD	XII 09 13 02 52.8±.6	53.83N±.07	162.17E±.10	17±2.9			
EIDC	Error ellipse is semi−major=16.1km semi−minor=10.5km azimuth=153Aftershock: abbreviated analysis						
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c32; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}8.34±.30; $M_{\theta\theta}$−2.06±.40; $M_{\phi\phi}$−6.28±.43; $M_{r\theta}$1.89±1.22; $M_{r\phi}$3.31±1.40; $M_{\theta\phi}$−1.75±.40. Principal Axes: T 9.25,Plg76°,Azm305°; N −1.46,Plg3°,Azm201°; P −7.79,Plg13°,Azm111°. Best double couple: $M_0$8.5×10^{16}Nm, NP1: ϕ_S196°,δ32°,λ84°. NP2:ϕ_S23°,δ58°,λ94°.						
	(218) Near east coast of Kamchatka						
ISC	**XII 10 08 08 18.2**±.54	**54.77N**±.032	**162.81E**±.042	**41**±4.9	**5.1b,5.1s**	**324**	**1-145**
KRSC	XII 10 08 08 14.1	54.74N	163.28E	15	5.4b		**¶97xii2312**
BJI	XII 10 08 08 14.2	55.10N	162.32E	11	5.1b,5.7s		
EIDC	XII 10 08 08 14.6±.49	54.9N	162.7E	0	5.0b,5.0s		
MOS	XII 10 08 08 15.8	54.9N	162.9E	22	5.3b		
NEIC	XII 10 08 08 17.6	54.85N	162.95E	33	5.2b,4.9s		
HRVD	XII 10 08 08 23.7±.4	54.83N±.05	163.10E±.08	20±2.8			
EIDC	Error ellipse is semi−major=17.0km semi−minor=10.3km azimuth=150						
NEIC	Mw5.4(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c40; Half duration: 1s3. Moment tensor: Scale 10^{16}Nm; M_{rr}9.11±.37; $M_{\theta\theta}$−3.38±.49; $M_{\phi\phi}$−5.73±.49; $M_{r\theta}$6.91±1.40; $M_{r\phi}$8.81±1.60; $M_{\theta\phi}$−5.98±.48. Principal Axes: T 14.2,Plg66°,Azm307°; N 1.5, Plg1°,Azm39°; P −15.7,Plg24°,Azm129°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S221°, δ21°,λ92°. NP2:ϕ_S38°,δ69°,λ89°.						
	(7) Andreanof Islands						
ISC	**XII 10 11 12 45**±1.4	**51.36N**±.085	**179.33W**±.064	**44**±12	**4.7b,5.2s**	**78**	**2-151**
BJI	XII 10 11 12 41.3	51.30N	179.20W	33	4.8b,5.5s		**¶97xii2336**
NEIC	XII 10 11 12 44.3	51.31N	179.23W	33	4.8b,5.0s		
EIDC	XII 10 11 12 45.8±3.87	51.4N	179.3W	31±27.4	4.3b,4.7L		
NEIC	ML4.9(PMR).						
EIDC	Error ellipse is semi−major=27.8km semi−minor=13.2km azimuth=163						
	(115) Near coast of Peru						
ISC	**XII 12 07 15 07**±1.1	**13.68S**±.040	**76.32W**±.063	**41**±10	**5.3b,4.8s**	**178**	**2-173**
EIDC	XII 12 07 15 02.8±.60	13.7S	76.4W	0	5.1b,4.8s		**¶97xii2711**
NEIC	XII 12 07 15 06.8	13.70S	76.37W	38	5.4b,4.9s		
BJI	XII 12 07 15 08.4	13.97S	76.14W	45			
MOS	XII 12 07 15 08.5	13.6S	76.3W	55	5.6b		
HRVD	XII 12 07 15 09.9±.4	13.68S±.06	76.86W±.07	44±4.4			
EIDC	Error ellipse is semi−major=28.0km semi−minor=14.1km azimuth=55						
NEIC	Mw5.4(HRV)						
NEIC	Felt strongly at Pisco. Also felt at Chincha Alta, Ica and Lima.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c45; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}7.78±.57; $M_{\theta\theta}$−2.99±.76; $M_{\phi\phi}$−4.79±.97; $M_{r\theta}$−0.87±1.16; $M_{r\phi}$−8.40±1.22; $M_{\theta\phi}$6.74±.68. Principal Axes: T 13.0,Plg56°,Azm117°; N −0.4,Plg28°,Azm336°; P −12.6,Plg18°,Azm236°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S291°,δ36°,λ39°. NP2:ϕ_S168°,δ68°,λ120°.						
	(123) Northern Chile						
ISC	**XII 12 17 07 54**±1.1	**23.51S**±.048	**69.22W**±.067	**41**±11	**5.0b,4.0s**	**120**	**4-168**
MOS	XII 12 17 07 54.4	23.6S	69.2W	33	5.7b		**¶97xii2786**
BJI	XII 12 17 07 57.7	23.60S	69.50W	81			
NEIC	XII 12 17 07 57.7	23.64S	69.45W	81	5.0b		
EIDC	XII 12 17 07 58.4±.35	23.5S	69.4W	73±2.7	4.7b,4.0s		
NEIC	Felt I=IV MM at Mejillones and III MM at Antofagasta, Calama, Taltal and Tocopilla.						
EIDC	Error ellipse is semi−major=20.1km semi−minor=12.4km azimuth=63						
	(639) Jan Mayen Island region						
ISC	**XII 13 07 02 03.9**±.12	**71.24N**±.018	**8.34W**±.066	**10**	**5.2b,5.1s**	**411**	**0-173**
BJI	XII 13 07 02 03.6	71.30N	8.30W	10	5.0b,5.6s		**¶97xii2907**
NEIC	XII 13 07 02 03.6	71.25N	8.33W	10	5.3b,4.9s		
EIDC	XII 13 07 02 03.9±.49	71.2N	8.5W	0	4.6b,5.1s		
MOS	XII 13 07 02 04.4	71.2N	8.2W	10	5.5b,5.0s		
BER	XII 13 07 02 05.6	71.1N	9.3W	10	4.5L		
HEL	XII 13 07 02 06	71.21N	8.65W		4.9L		
HRVD	XII 13 07 02 09.5±.2	71.26N±.02	9.34W±.08	15			
NEIC	Mw5.6(HRV).						
EIDC	Error ellipse is semi−major=13.6km semi−minor=11.8km azimuth=45						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c58; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}0.41±.05; $M_{\theta\theta}$1.44±.06; $M_{\phi\phi}$−1.85±.06; $M_{r\theta}$−0.51±.19; $M_{r\phi}$1.82±.18; $M_{\theta\phi}$2.32±.06. Principal Axes: T 2.73,Plg12°,Azm329°; N 1.13, Plg63°,Azm213°; P −3.86,Plg24°,Azm64°. Best double couple: $M_0$3.3×10^{17}Nm, NP1: ϕ_S104°,δ64°,λ−8°. NP2:ϕ_S198°,δ83°,λ−154°.						
	(686) West Chile Rise						
ISC	**XII 13 19 22 59.0**±.24	**41.39S**±.047	**87.39W**±.082	**10**	**5.6b,5.3s**	**201**	**13-176**
MOS	XII 13 19 22 58.6	41.4S	87.4W	10	5.9b,5.4s		**¶97xii3003**
BJI	XII 13 19 22 58.7	41.40S	87.40W	10	5.9s		
NEIC	XII 13 19 22 58.7	41.40S	87.44W	10	5.7b,5.2s		
HRVD	XII 13 19 23 01.5±.2	41.39S±.03	87.68W±.03	15			
EIDC	XII 13 19 23 01.8±.41	41.4S	87.5W	24±2.3	4.8b,5.5s		
NEIC	Mw5.7(HRV), Mw5.6(GS).						
NEIC	Moment tensor solution: s17, scale 10^{17}Nm; M_{rr}−2.29; $M_{\theta\theta}$1.31; $M_{\phi\phi}$0.99; $M_{r\theta}$0.62; $M_{r\phi}$−0.76; $M_{\theta\phi}$1.69. Depth 23km; Principal axes: T 2.85,Plg1°,Azm138°; N −0.11,Plg24°, Azm47°; P −2.73,Plg66°,Azm229°. Best double couple: $M_0$2.8×10^{17}Nm; NP1:ϕ_S250°,δ49°, λ−57°. NP2:ϕ_S25°,δ50°,λ−122°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c85; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−3.96±.09; $M_{\theta\theta}$−0.14±.13; $M_{\phi\phi}$4.10±.10; $M_{r\theta}$1.16±.30; $M_{r\phi}$−0.84±.34; $M_{\theta\phi}$−0.26±.09. Principal Axes: T 4.22,Plg7°,Azm85°; N 0.13, Plg14°,Azm353°; P −4.35,Plg74°,Azm199°. Best double couple: $M_0$4.3×10^{17}Nm, NP1: ϕ_S191°,δ40°,λ−67°. NP2:ϕ_S342°,δ53°,λ−108°.						
EIDC	Error ellipse is semi−major=22.5km semi−minor=16.7km azimuth=96						
	(153) South Sandwich Islands region						
ISC	**XII 14 02 39 18.0**±.29	**59.56S**±.054	**26.2W**±.13	**33**	**4.9b,5.3s**	**137**	**13-159**
BJI	XII 14 02 39 17.4	59.60S	26.20W	33	5.8s		**¶97xii3068**
NEIC	XII 14 02 39 17.4	59.57S	26.19W	33	5.0b,5.3s		
HRVD	XII 14 02 39 25.8±.2	60.04S±.02	25.72W±.04	33±1.6			
EIDC	XII 14 02 39 27.6±5.03	59.6S	26.5W	109±43.9	4.6b,5.1s		
NEIC	Mw5.7(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c86; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}2.86±.06; $M_{\theta\theta}$−0.21±.07; $M_{\phi\phi}$−2.65±.08; $M_{r\theta}$−0.91±.13; $M_{r\phi}$2.67±.19; $M_{\theta\phi}$−1.58±.07. Principal Axes: T 4.40,Plg60°,Azm232°; N −0.33,Plg23°,Azm10°; P −4.08,Plg18°,Azm108°. Best double couple: $M_0$4.2×10^{17}Nm, NP1:						

ϕ_S230°,δ34°,λ135°. NP2:ϕ_S0°,δ67°,λ65°.
EIDC Error ellipse is semi−major=19.4km semi−minor=16.1km azimuth=48

(201) West Irian

ISC	**XII**	**14 08 48 35**±1.6	**3.05S**±.031	**136.12E**±.034	**22**±12	**5.2b,5.1s**	**171**	**4-161**
BJI	XII	14 08 48 35.2	2.86S	136.22E	24	5.2b,5.1s		**¶97xii3119**
MOS	XII	14 08 48 35.5	3.0S	136.1E	28	5.7b,5.0s		
NEIC	XII	14 08 48 36.0	3.08S	136.11E	33	5.2b,5.2s		
EIDC	XII	14 08 48 38.0±.38	3.0S	136.2E	31±2.5	4.7b,5.1s		
HRVD	XII	14 08 48 42.4±.3	2.85S±.03	136.06E±.04	31±2.0			

NEIC Mw5.6(HRV).
EIDC Error ellipse is semi−major=23.3km semi−minor=8.3km azimuth=86
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c71; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}1.36±.06; $M_{\theta\theta}$−1.72±.06; $M_{\phi\phi}$0.36±.09; $M_{r\theta}$−2.04±.17; $M_{r\phi}$0.21±.12; $M_{\theta\phi}$−0.61±.06. Principal Axes: T 2.48,Plg60°,Azm205°; N 0.32, Plg15°,Azm88°; P −2.80,Plg25°,Azm351°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S51°, δ24°,λ50°. NP2:ϕ_S273°,δ72°,λ106°.

(173) Tonga

ISC	**XII**	**14 23 10 04.2**±.24	**15.60S**±.064	**173.15W**±.055	**34**±2.1*	**5.0b,5.2s**	**268**	**2-166**
NEIC	XII	14 23 10 03.9	15.57S	173.17W	33	5.2b,5.2s		**¶97xii3207**
BJI	XII	14 23 10 04.7	14.60S	172.61W	25	5.4b,5.3s		
EIDC	XII	14 23 10 06.4±.86	15.5S	173.1W	42±6.9	4.5b,5.2s		
MOS	XII	14 23 10 08.2	15.1S	174.0W	33	5.6b,5.1s		
HRVD	XII	14 23 10 10.9±.2	15.36S±.04	172.65W±.02	15			

NEIC Mw5.6(HRV).
EIDC Error ellipse is semi−major=25.9km semi−minor=15.5km azimuth=147
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c63; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}1.82±.05; $M_{\theta\theta}$0.46±.09; $M_{\phi\phi}$−2.28±.07; $M_{r\theta}$0.21±.11; $M_{r\phi}$1.60±.12; $M_{\theta\phi}$0.43±.06. Principal Axes: T 2.43,Plg68°,Azm297°; N 0.43, Plg11°,Azm178°; P −2.86,Plg18°,Azm84°. Best double couple: $M_0$2.7×10^{17}Nm, NP1: ϕ_S156°,δ28°,λ66°. NP2:ϕ_S3°,δ64°,λ102°.

(429) Mid-Indian Rise

ISC	**XII**	**15 10 26 59.4**±.36	**20.11S**±.065	**67.76E**±.058	**10**	**5.0b,5.5s**	**94**	**19-168**
BJI	XII	15 10 26 58.2	19.91S	67.76E	5	5.2b,5.6s		**¶97xii3266**
NEIC	XII	15 10 26 58.7	20.15S	67.62E	10	5.2b		
MOS	XII	15 10 26 58.9	20.2S	67.7E	10	5.4b,5.5s		
EIDC	XII	15 10 26 59.1±.65	20.0S	67.7E	0	4.7b,5.2s		

EIDC Error ellipse is semi−major=22.8km semi−minor=20.1km azimuth=130

(702) Balleny Islands region

ISC	**XII**	**16 07 06 56.4**±.58	**62.33S**±.067	**164.9E**±.29	**10**	**4.5b,5.6s**	**85**	**15-161**
NEIC	XII	16 07 06 56.5	62.88S	163.19E	10	4.7b,5.6s		**¶97xii3399**
EIDC	XII	16 07 06 56.9±.84	62.9S	163.0E	0	5.4s,4.4b		
MOS	XII	16 07 07 03.7	63.0S	158.8E	10	5.5b		
HRVD	XII	16 07 07 04.4±.1	62.46S±.02	165.03E±.04	15			

NEIC Mw5.9(HRV).
EIDC Error ellipse is semi−major=72.9km semi−minor=20.8km azimuth=53
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c90; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.64±.10; $M_{\theta\theta}$8.42±.13; $M_{\phi\phi}$−7.78±.11; $M_{r\theta}$1.71±.35; $M_{r\phi}$−1.96±.38; $M_{\theta\phi}$−2.49±.13. Principal Axes: T 9.20,Plg12°,Azm10°; N −0.68, Plg73°,Azm141°; P −8.52,Plg12°,Azm277°. Best double couple: $M_0$8.9×10^{17}Nm, NP1: ϕ_S53°,δ73°,λ−179°. NP2:ϕ_S323°,δ89°,λ−17°.

(58) Near coast of Guerrero, Mexico

ISC	**XII**	**16 11 48 32**±1.3	**16.20N**±.054	**98.81W**±.041	**19**±8.1	**5.3b,5.6s**	**205**	**1-153**
MEX	XII	16 11 48 29.6	15.7N	99.0W	16	4.7D		**¶97xii3446**
BJI	XII	16 11 48 29.8	16.10N	98.80W	10	6.4s		
NEIC	XII	16 11 48 29.8	16.11N	98.85W	10	5.5b,5.5s		
MOS	XII	16 11 48 30.6	16.3N	98.8W	10	5.7b,5.6s		
EIDC	XII	16 11 48 30.6±.85	16.3N	98.7W	0	4.9b,5.7s		
HRVD	XII	16 11 48 37.8±.2	16.43N±.02	98.73W±.03	16			

NEIC Mw6.0(GS), Mw6.0(HRV).
NEIC Moment tensor solution: s30, scale 10^{18}Nm; M_{rr}1.20; $M_{\theta\theta}$−1.01; $M_{\phi\phi}$−0.20; $M_{r\theta}$0.25; $M_{r\phi}$0.39; $M_{\theta\phi}$0.51. Depth 18km; Principal axes: T 1.37,Plg71°,Azm299°; N −0.11,Plg19°, Azm115°; P −1.26,Plg1°,Azm205°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S314°,δ47°, λ117°. NP2:ϕ_S97°,δ49°,λ64°.
EIDC Error ellipse is semi−major=28.0km semi−minor=14.7km azimuth=56
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c79; Mantle waves: s4,c5; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}5.30±.16; $M_{\theta\theta}$−5.92±.17; $M_{\phi\phi}$0.62±.23; $M_{r\theta}$8.09±.51; $M_{r\phi}$−2.79±.42; $M_{\theta\phi}$0.50±.16. Principal Axes: T 10.1,Plg61°,Azm28°; N 0.4,Plg8°,Azm285°; P −10.4,Plg28°,Azm190°. Best double couple: $M_0$1.0×10^{18}Nm, NP1:ϕ_S260°,δ18°,λ64°. NP2:ϕ_S107°,δ74°,λ98°.

(6) Rat Islands

ISC	**XII**	**17 04 38 52**±1.4	**51.17N**±.032	**178.83E**±.028	**22**±9.7	**5.7b,6.5s**	**567**	**3-160**
BJI	XII	17 04 38 49.9	51.30N	178.93E	20	5.9b,6.6s		**¶97xii3551**
EIDC	XII	17 04 38 49.9±.48	51.2N	178.9E	0	5.4b,6.5s		
MOS	XII	17 04 38 50.8	51.3N	178.9E	14	6.1b,6.7s		
NEIC	XII	17 04 38 51.4	51.19N	178.87E	20	5.8b,6.5s		
HRVD	XII	17 04 38 58.3±.1	51.25N±.01	178.92E±.01	22			

EIDC Error ellipse is semi−major=15.8km semi−minor=9.7km azimuth=170
NEIC Mw6.6(HRV), Me6.2(GS). Felt I=IV MM.
NEIC Radiated energy from the P−wave first−motion solution: 4.1±0.8×10^{13}Nm/23
NEIC Mw 6.5 (GS). Ms 6.4 (BRK). ML 6.4 (PMR). Felt I=IV MM on Adak. Mo=1.2×10^{19}Nm (PPT).
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S255°,δ20°,λ105°. NP2:ϕ_S59°,δ71°,λ85°. Principal axes: T Plg64°,Azm320°; P Plg26°,Azm153°. Two events about 1.5 seconds apart. Depths 19 and 18 km, respectively, from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s55, scale 10^{18}Nm; M_{rr}3.08; $M_{\theta\theta}$−1.40; $M_{\phi\phi}$−1.68; $M_{r\theta}$4.82; $M_{r\phi}$2.32; $M_{\theta\phi}$−0.68. Depth 20km; Principal axes: T 6.48,Plg58°,Azm338°; N −1.06,Plg5°, Azm240°; P −5.42,Plg32°,Azm147°. Best double couple: $M_0$6.0×10^{18}Nm; NP1:ϕ_S219°,δ14°, λ68°. NP2:ϕ_S62°,δ77°,λ95°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c125; Mantle waves: s44,c99; Half duration: 5s1. Moment tensor: Scale 10^{18}Nm; M_{rr}6.68±.04; $M_{\theta\theta}$−7.13±.04; $M_{\phi\phi}$0.45±.04; $M_{r\theta}$6.60±.12; $M_{r\phi}$2.21±.11; $M_{\theta\phi}$−1.51±.04. Principal Axes: T 9.6,Plg67°,Azm335°; N 0.7,Plg4°,Azm75°; P −10.2,Plg22°,Azm167°. Best double couple: $M_0$9.9×10^{18}Nm, NP1:ϕ_S266°,δ23°,λ101°. NP2:ϕ_S73°,δ67°,λ85°.

(6) Rat Islands

ISC	**XII**	**17 11 45 11**±1.1	**51.21N**±.054	**179.02E**±.037	**49**±9.6	**5.0b,5.0s**	**218**	**3-150**
BJI	XII	17 11 45 08.2	51.15N	179.09E	36	5.2b,5.2s		**¶97xii3598**
NEIC	XII	17 11 45 09.0	51.21N	178.99E	33	5.0b,5.0s		
MOS	XII	17 11 45 09.1	51.1N	179.1E	33	5.7b,5.0s		
EIDC	XII	17 11 45 09.7±.54	51.2N	179.1E	30±2.7	4.6b,4.8s		
HRVD	XII	17 11 45 13.6±.6	51.15N±.07	179.51E±.14	15			

NEIC Mw5.5(HRV)
NEIC Felt on Adak.
EIDC Error ellipse is semi−major=15.4km semi−minor=10.1km azimuth=172
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c41; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.24±.09; $M_{\theta\theta}$−1.31±.08; $M_{\phi\phi}$0.07±.09; $M_{r\theta}$1.00±.40; $M_{r\phi}$0.08±.34; $M_{\theta\phi}$−0.47±.13. Principal Axes: T 1.59,Plg70°,Azm10°; N 0.19, Plg8°,Azm257°; P −1.77,Plg18°,Azm165°. Best double couple: $M_0$1.7×10^{17}Nm, NP1: ϕ_S243°,δ28°,λ73°. NP2:ϕ_S81°,δ64°,λ99°.

(274) Southern Sumatera

ISC	**XII**	**18 05 46 55**±3.3	**2.00S**±.034	**99.57E**±.042	**14**±20	**5.3b,5.4s**	**257**	**5-159**
EIDC	XII	18 05 46 54.1±.48	1.9S	99.4E	0	5.0b,5.4s		**¶97xii3717**
KLM	XII	18 05 46 57	1.9S	99.6E	33	4.8L		
MOS	XII	18 05 46 57.2	1.9S	99.6E	32	5.9b,5.4s		
NEIC	XII	18 05 46 57.2	1.95S	99.62E	33	5.3b,5.5s		
BJI	XII	18 05 46 57.4	2.12S	99.58E	44	5.5b,5.6s		
HRVD	XII	18 05 47 00.9±.3	1.90S	99.60E	15			

EIDC Error ellipse is semi−major=18.3km semi−minor=11.0km azimuth=67
KLM MB5.3
NEIC Mw5.7(HRV), Mw5.6(GS)
NEIC Felt I=IV MM at Padang.
NEIC Moment tensor solution: s12, scale 10^{17}Nm; M_{rr}1.04; $M_{\theta\theta}$−1.60; $M_{\phi\phi}$0.56; $M_{r\theta}$1.69; $M_{r\phi}$−1.10; $M_{\theta\phi}$−0.13. Depth 19km; Principal axes: T 2.45,Plg53°,Azm55°; N 0.02,Plg23°, Azm291°; P −2.47,Plg28°,Azm189°. Best double couple: $M_0$2.5×10^{17}Nm; NP1:ϕ_S236°,δ27°, λ32°. NP2:ϕ_S117°,δ76°,λ113°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c35; Mantle waves: s1,c1; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.24±.10; $M_{\theta\theta}$−0.81±.06; $M_{\phi\phi}$1.05±.14; $M_{r\theta}$3.44±.13; $M_{r\phi}$−2.70±.17; $M_{\theta\phi}$0.16±.08. Principal Axes: T 4.23,Plg44°,Azm51°; N 0.47,Plg11°,Azm310°; P −4.69,Plg44°,Azm209°. Best double couple: $M_0$4.5×10^{17}Nm, NP1:ϕ_S219°,δ11°,λ−1°. NP2:ϕ_S310°,δ90°,λ−101°.

(216) Marianas

ISC	**XII**	**18 20 23 03**±2.5	**14.67N**±.027	**144.71E**±.035	**30**±17	**5.4b,5.4s**	**261**	**1-168**
NEIC	XII	18 20 23 02.8	14.71N	144.65E	33	5.5b,5.4s		**¶97xii3817**
MOS	XII	18 20 23 03.2	14.7N	144.7E	33	6.3b,5.3s		
BJI	XII	18 20 23 03.5	15.13N	144.27E	2	5.7b,5.3s		
EIDC	XII	18 20 23 03.5±.52	14.7N	144.9E	27±3.0	4.9b,5.3s		
HRVD	XII	18 20 23 05.2±.1	14.58N±.02	144.53E±.02	15			

NEIC Mw5.8(HRV), Mw5.7(GS)
NEIC Felt on Saipan.
NEIC Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}−1.16; $M_{\theta\theta}$3.57; $M_{\phi\phi}$−2.42; $M_{r\theta}$1.91; $M_{r\phi}$−3.03; $M_{\theta\phi}$0.49. Depth 7km; Principal axes: T 4.30,Plg22°,Azm6°; N 0.88,Plg42°, Azm118°; P −5.18,Plg40°,Azm256°. Best double couple: $M_0$4.7×10^{17}Nm; NP1:ϕ_S49°,δ44°, λ−164°. NP2:ϕ_S307°,δ79°,λ−47°.
EIDC Error ellipse is semi−major=17.8km semi−minor=11.7km azimuth=90
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c93; Mantle waves: s5,c8; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}−5.18±.10; $M_{\theta\theta}$5.31±.10; $M_{\phi\phi}$−0.13±.15; $M_{r\theta}$1.76±.38; $M_{r\phi}$−1.35±.29; $M_{\theta\phi}$−2.79±.10. Principal Axes: T 6.87,Plg10°,Azm24°; N −1.24,Plg7°,Azm115°; P −5.63,Plg78°,Azm239°. Best double couple: $M_0$6.2×10^{17}Nm, NP1:ϕ_S105°,δ35°,λ−102°. NP2:ϕ_S300°,δ55°,λ−82°.

(210) South of the Marianas

ISC	**XII**	**20 21 17 57**±2.5	**12.28N**±.045	**141.27E**±.076	**48**±22	**4.8b,4.7s**	**98**	**15-148**
MOS	XII	20 21 17 54.2	12.2N	141.3E	33	5.7b,4.8s		**¶97xii4171**
NEIC	XII	20 21 17 54.8	12.31N	141.21E	33	5.1b		
BJI	XII	20 21 17 55.5	12.44N	141.63E	41	5.0b,4.8s		
HRVD	XII	20 21 17 56.1±.4	12.25N±.07	140.93E±.08	15			
EIDC	XII	20 21 17 56.7±.55	12.2N	141.3E	36±3.6	4.4b,4.6s		

NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c42; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}−9.62±.88; $M_{\theta\theta}$9.11±.74; $M_{\phi\phi}$0.52±1.36; $M_{r\theta}$7.50±3.59; $M_{r\phi}$2.90±2.74; $M_{\theta\phi}$5.37±.72. Principal Axes: T 14.4,Plg18°,Azm335°; N −2.0, Plg3°,Azm66°; P −12.3,Plg71°,Azm165°. Best double couple: $M_0$1.3×10^{17}Nm, NP1:ϕ_S60°, δ27°,λ−97°. NP2:ϕ_S248°,δ64°,λ−87°.
EIDC Error ellipse is semi−major=30.5km semi−minor=11.7km azimuth=86

(221) Kuril Islands

ISC	**XII**	**21 21 03 37.2**±.52	**43.24N**±.032	**146.41E**±.036	**52**±4.2	**5.2b,4.5s**	**400**	**1-154**
EIDC	XII	21 21 03 31.2±.46	43.3N	146.3E	0	5.1b,4.3s		**¶97xii4303**
NEIC	XII	21 21 03 34.7	43.25N	146.40E	33	5.3b,4.6s		
BJI	XII	21 21 03 35.2	43.36N	146.63E	44	5.0b,4.5s		
MOS	XII	21 21 03 36.6	43.3N	146.4E	49	5.7b,4.4s		
SKHL	XII	21 21 03 37.0	43.1N±.14	146.6E±.16	55±1			
JMA	XII	21 21 03 37.1±.3	43.14N±.02	146.42E±.03	52±3	5.0		
HRVD	XII	21 21 03 38.2±1.1	43.19N±.13	147.05E±.10	58±8.5			

EIDC Error ellipse is semi−major=15.7km semi−minor=12.0km azimuth=104
NEIC Mw5.2(HRV)
NEIC Felt I=IV MSK on Shikotan. Also felt II J1 in eastern Hokkaido.
MOS Felt I=IV−V MSK at Uzno−Kurilsk; I=IV at Malokurilsk,Kunashir.
SKHL Felt I=IV MSK at Malokurilskoe
JMA Felt I= II J1
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c27; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.11±.30; $M_{\theta\theta}$0.11±.50; $M_{\phi\phi}$4.00±.53; $M_{r\theta}$0.57±.67; $M_{r\phi}$3.79±.80; $M_{\theta\phi}$−2.20±.43. Principal Axes: T 6.07,Plg19°,Azm252°; N −0.15, Plg19°,Azm349°; P −5.92,Plg63°,Azm120°. Best double couple: $M_0$6.0×10^{16}Nm, NP1: ϕ_S315°,δ31°,λ−128°. NP2:ϕ_S177°,δ66°,λ−70°.

(71) Near coast of Guatemala

ISC	**XII**	**22 10 03 44.9**±.84	**13.72N**±.047	**90.29W**±.042	**57**±7.8	**5.1b,5.5s**	**296**	**2-151**
BJI	XII	22 10 03 45.1	13.70N	90.30W	59	6.2s		**¶97xii4398**
NEIC	XII	22 10 03 45.1	13.74N	90.32W	59	5.1b		
HRVD	XII	22 10 03 51.1±.1	13.62N±.01	90.84W±.02	56±1.3			
EIDC	XII	22 10 03 51.7±4.67	13.9N	90.2W	97±40.8	4.5b,5.5s		
MEX	XII	22 10 03 53.2	14.0N	90.8W	81	5.2D		

NEIC Mw6.1(HRV), MD5.2(UNM)
NEIC Mw 6.0 (GS). Felt in western El Salvador and at San Salvador.
NEIC Moment tensor solution: s30, scale 10^{17}Nm; M_{rr}6.40; $M_{\theta\theta}$−1.10; $M_{\phi\phi}$−5.30; $M_{r\theta}$9.00; $M_{r\phi}$−6.10; $M_{\theta\phi}$3.70. Depth 49km; Principal axes: T 13.0,Plg58°,Azm20°; N −0.1,Plg13°, Azm132°; P −12.9,Plg29°,Azm229°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S351°,δ20°, λ131°. NP2:ϕ_S128°,δ75°,λ77°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c108; Mantle waves: s8,c10; Half duration: 2s7. Moment tensor: Scale 10^{17}Nm; M_{rr}5.46±.14; $M_{\theta\theta}$−8.52±.19; $M_{\phi\phi}$3.07±.24; $M_{r\theta}$9.06±.20; $M_{r\phi}$−7.90±.20; $M_{\theta\phi}$2.97±.17. Principal Axes: T 13.6,Plg54°,Azm64°; N 1.6,Plg20°,Azm304°; P −15.2,Plg29°,Azm203°. Best double couple: $M_0$1.4×10^{18}Nm, NP1:ϕ_S251°,δ24°,λ34°. NP2:ϕ_S129°,δ77°,λ111°.
EIDC Error ellipse is semi−major=24.1km semi−minor=15.5km azimuth=49

(228) Near east coast of Honshū

ISC	**XII**	**22 16 32 01.4**±.45	**40.12N**±.032	**142.27E**±.035	**55**±4.0	**5.3b,4.9s**	**413**	**0-154**
JMA	XII	22 16 31 59.4±.2	40.17N±.00	142.50E±.02	36±2	5.1		**¶97xii4450**
BJI	XII	22 16 31 59.5	40.07N	142.40E	58	5.4b,5.0s		
MOS	XII	22 16 32 00.1	40.2N	142.3E	40	5.8b,4.9s		
NEIC	XII	22 16 32 00.2	40.13N	142.33E	46	5.3b,4.8s		
EIDC	XII	22 16 32 02.0±.42	40.1N	142.3E	47±3.5	4.7b,4.7s		
HRVD	XII	22 16 32 04.1±.4	40.10N±.05	142.44E±.05	43±3.9			

JMA Nodal plane solution: N72, Score 93%. NP1:ϕ_S197°,δ33°,λ70°. NP2:ϕ_S40°,δ59°,λ104°. Principle axes: T Plg73°,Azm342°; N Plg11°,Azm214°; P Plg13°,Azm121°.
NEIC Mw5.4(HRV). Felt I=V MM.
NEIC Felt I=III J1 in eastern Aomori Prefecture; II J1 in northern Miyagi and much of Iwate Prefectures; I J1 in eastern Akita Prefecture. Also felt I J1 in southern Hokkaido.
EIDC Error ellipse is semi−major=12.8km semi−minor=9.5km azimuth=99
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c51; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.01±.04; $M_{\theta\theta}$0.10±.07; $M_{\phi\phi}$−1.11±.07; $M_{r\theta}$0.37±.09; $M_{r\phi}$0.92±.10; $M_{\theta\phi}$−0.41±.06. Principal Axes: T 1.38,Plg69°,Azm298°; N 0.23, Plg3°,Azm199°; P −1.61,Plg21°,Azm108°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S192°,δ25°,λ82°. NP2:ϕ_S20°,δ66°,λ94°.

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
(249) Luzon								
ISC	**XII**	**22 16 49 54.1**±.73	**14.88N**±.027	**119.84E**±.040	**43**±6.6	**5.2b,5.1s**	**290**	**1-168**
MOS	XII	22 16 49 52.7	14.9N	120.0E	33	5.5b,5.3s		**¶97xii4453**
BJI	XII	22 16 49 52.7	14.71N	119.99E	47	5.0b,5.2s		
NEIC	XII	22 16 49 52.9	14.90N	119.92E	33	5.3b,5.0s		
EIDC	XII	22 16 49 55.8±.33	14.9N	119.8E	40±2.7	4.8b,5.1s		
HRVD	XII	22 16 49 58.9±.3	15.14N±.05	119.69E±.04	32±3.0			
NEIC	Mw5.6(HRV).							
EIDC	Error ellipse is semi−major=16.4km semi−minor=8.5km azimuth=79							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c64; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}1.83±.07; $M_{\theta\theta}$−0.06±.09; $M_{\phi\phi}$−1.77±.10; $M_{r\theta}$−0.90±.23; $M_{r\phi}$−1.50±.23; $M_{\theta\phi}$−0.48±.09. Principal Axes: T 2.56,Plg67°,Azm132°; N −0.01,Plg8°,Azm22°; P −2.55,Plg21°,Azm289°. Best double couple: $M_0$2.5×10^{17}Nm, NP1: ϕ_S4°,δ25°,λ70°. NP2:ϕ_S206°,δ67°,λ99°.							
(12) Alaska Peninsula								
ISC	**XII**	**22 19 05 00**±2.4	**54.76N**±.050	**160.94W**±.060	**2**±13	**5.2b,4.9s**	**291**	**1-150**
BJI	XII	22 19 05 02.6	54.95N	160.62W	34	5.6b,5.4s		**¶97xii4470**
NEIC	XII	22 19 05 04.4	54.79N	160.83W	33	5.2b,4.9s		
MOS	XII	22 19 05 04.6	54.8N	160.8W	33	5.7b,4.9s		
HRVD	XII	22 19 05 06.6±.4	54.26N±.04	160.24W±.07	32±3.3			
EIDC	XII	22 19 05 06.7±3.15	54.8N	160.9W	46±29.6	4.8b,4.7s		
NEIC	Mw5.5(HRV), M_L5.2(PMR)							
NEIC	Felt at Cold Bay, King Cove, Perryville and Sand Point.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c61; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.28±.06; $M_{\theta\theta}$−1.19±.06; $M_{\phi\phi}$−0.09±.08; $M_{r\theta}$0.93±.19; $M_{r\phi}$0.67±.17; $M_{\theta\phi}$−0.89±.09. Principal Axes: T 1.68,Plg70°,Azm313°; N 0.40, Plg5°,Azm58°; P −2.08,Plg19°,Azm150°. Best double couple: $M_0$1.9×10^{17}Nm, NP1:ϕ_S248°, δ27°,λ102°. NP2:ϕ_S55°,δ64°,λ84°.							
EIDC	Error ellipse is semi−major=17.8km semi−minor=11.9km azimuth=5							
(248) Philippine Islands region								
ISC	**XII**	**23 10 02 58.8**±.80	**13.16N**±.031	**125.28E**±.047	**34**±7.2	**4.9b,4.8s**	**157**	**2-149**
EIDC	XII	23 10 02 55.2±.46	13.1N	125.3E	0	4.8b,4.8s		**¶97xii4580**
BJI	XII	23 10 02 58.2	13.04N	125.48E	43	5.1b,5.0s		
MOS	XII	23 10 02 58.5	13.1N	125.4E	33	5.6b,4.8s		
NEIC	XII	23 10 02 58.5	13.13N	125.24E	33	5.1b		
HRVD	XII	23 10 02 59.7±.1	13.13N±.01	125.43E±.02	31±1.3			
EIDC	Error ellipse is semi−major=22.2km semi−minor=9.7km azimuth=77							
NEIC	Mw5.3(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c16; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.74±1.10; $M_{\theta\theta}$4.08±1.11; $M_{\phi\phi}$−1.34±1.98; $M_{r\theta}$−2.78±2.31; $M_{r\phi}$7.52±3.27; $M_{\theta\phi}$−0.82±1.03. Principal Axes: T 7.42, Plg35°,Azm223°; N 2.33,Plg19°,Azm327°; P −9.75,Plg48°,Azm80°. Best double couple: $M_0$8.6×10^{16}Nm, NP1:ϕ_S259°,δ20°,λ−160°. NP2:ϕ_S150°,δ83°,λ−71°.							
(684) Easter Island Cordillera								
ISC	**XII**	**24 20 56 57.7**±.93	**20.7S**±.14	**114.1W**±.36	**10**	**4.2b,4.7s**	**49**	**42-164**
BJI	XII	24 20 56 57.3	20.70S	114.20W	10	5.5s		**¶97xii4822**
NEIC	XII	24 20 56 57.3	20.69S	114.16W	10	4.6b,4.7s		
EIDC	XII	24 20 56 57.9±3.50	20.6S	114.1W	0	4.0b,4.7s		
HRVD	XII	24 20 57 05.2±.4	20.53S±.05	114.00W±.07	15			
NEIC	Mw5.3(HRV), Poor solution.							
EIDC	Error ellipse is semi−major=176.1km semi−minor=42.1km azimuth=118							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c38; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.29±.36; $M_{\theta\theta}$0.06±.48; $M_{\phi\phi}$1.22±.53; $M_{r\theta}$−0.20±1.45; $M_{r\phi}$1.83±1.40; $M_{\theta\phi}$8.86±.39. Principal Axes: T 9.65,Plg6°,Azm313°; N −1.15,Plg77°,Azm193°; P −8.51,Plg11°,Azm44°. Best double couple: $M_0$9.1×10^{16}Nm, NP1: ϕ_S88°,δ78°,λ−3°. NP2:ϕ_S179°,δ87°,λ−168°.							
(69) Near coast of Chiapas, Mexico								
ISC	**XII**	**25 22 16 22**±1.8	**14.24N**±.048	**92.24W**±.041	**25**±12	**5.3b,5.4s**	**373**	**1-155**
MEX	XII	25 22 16 15.3	13.3N	92.4W	70	5.2D		**¶97xii4993**
BJI	XII	25 22 16 19.1	14.10N	92.30W	10	5.9s		
NEIC	XII	25 22 16 19.1	14.15N	92.28W	10	5.4b,5.3s		
MOS	XII	25 22 16 19.5	14.2N	92.3W	10	5.5b,5.5s		
HRVD	XII	25 22 16 27.0±.2	14.15N±.02	92.71W±.02	33			
EIDC	XII	25 22 16 27.0±5.02	14.3N	92.3W	53±43.4	4.8b,5.5s		
NEIC	Mw5.8(GS), M_D5.2(UNM).							
NEIC	Mw 5.8 (HRV).							
NEIC	Moment tensor solution: s38, scale 10^{17}Nm; M_{rr}4.65; $M_{\theta\theta}$−1.82; $M_{\phi\phi}$−2.82; $M_{r\theta}$1.81; $M_{r\phi}$−0.16; $M_{\theta\phi}$2.72. Depth 26km; Principal axes: T 5.16,Plg73°,Azm345°; N 0.10,Plg15°, Azm136°; P −5.26,Plg8°,Azm228°. Best double couple: $M_0$5.2×10^{17}Nm; NP1:ϕ_S335°,δ40°, λ114°. NP2:ϕ_S126°,δ54°,λ72°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c83; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; M_{rr}4.62±.09; $M_{\theta\theta}$−4.53±.10; $M_{\phi\phi}$−0.09±.14; $M_{r\theta}$3.37±.22; $M_{r\phi}$−1.93±.18; $M_{\theta\phi}$2.02±.09. Principal Axes: T 5.99,Plg70°,Azm39°; N 0.64, Plg5°,Azm294°; P −6.63,Plg19°,Azm203°. Best double couple: $M_0$6.3×10^{17}Nm, NP1: ϕ_S284°,δ26°,λ78°. NP2:ϕ_S117°,δ64°,λ96°.							
EIDC	Error ellipse is semi−major=26.8km semi−minor=14.9km azimuth=66							
(219) Off east coast of Kamchatka								
ISC	**XII**	**26 06 24 06**±1.1	**54.43N**±.036	**163.02E**±.045	**27**±7.6	**5.0b,4.7s**	**282**	**1-144**
BJI	XII	26 06 24 04.2	54.50N	163.10E	33	4.8b,5.5s		**¶97xii5068**
KRSC	XII	26 06 24 04.5	54.40N	163.39E	29	5.1b		
MOS	XII	26 06 24 07.0	54.5N	162.9E	35	5.5b,5.0s		
NEIC	XII	26 06 24 07.2	54.45N	163.14E	33	5.2b,4.5s		
EIDC	XII	26 06 24 08.0±.58	54.5N	163.1E	26±3.5	4.6b,4.4s		
MOS	Felt I=II MSK at Petropavlovsk−Kamchatskiy.							
EIDC	Error ellipse is semi−major=13.6km semi−minor=9.6km azimuth=132							
(6) Rat Islands								
ISC	**XII**	**26 21 18 17**±1.6	**51.29N**±.040	**178.81E**±.032	**28**±11	**5.2b,5.1s**	**355**	**3-150**
BJI	XII	26 21 18 16.8	51.31N	178.77E	31	5.5b,5.2s		**¶97xii5198**
MOS	XII	26 21 18 17.0	51.3N	178.8E	26	5.8b,5.3s		
NEIC	XII	26 21 18 17.8	51.31N	178.80E	33	5.3b,5.0s		
EIDC	XII	26 21 18 18.1±.54	51.3N	178.9E	27±3.0	4.8b,4.9s		
HRVD	XII	26 21 18 21.8±.3	51.42N±.02	178.64E±.06	32			
NEIC	Mw5.6(HRV), M_L5.4(PMR).							
EIDC	Error ellipse is semi−major=13.5km semi−minor=9.1km azimuth=155							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c58; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}1.84±.05; $M_{\theta\theta}$−2.10±.05; $M_{\phi\phi}$0.26±.06; $M_{r\theta}$1.96±.13; $M_{r\phi}$0.99±.12; $M_{\theta\phi}$−0.34±.07. Principal Axes: T 2.89,Plg64°,Azm318°; N 0.17, Plg11°,Azm72°; P −3.06,Plg24°,Azm167°. Best double couple: $M_0$3.0×10^{17}Nm, NP1: ϕ_S278°,δ24°,λ119°. NP2:ϕ_S68°,δ69°,λ78°.							
(410) South Atlantic Ridge								
ISC	**XII**	**27 20 11 01.6**±.31	**55.84S**±.052	**4.4W**±.11	**10**	**5.0b,5.6s**	**95**	**15-166**
BJI	XII	27 20 11 01.3	55.80S	4.20W	10	6.2s		**¶97xii5342**
NEIC	XII	27 20 11 01.3	55.78S	4.22W	10	5.4b,5.3s		
MOS	XII	27 20 11 01.6	55.8S	4.3W	10	5.6b,5.5s		
EIDC	XII	27 20 11 01.6±.50	55.8S	4.3W	0	4.9b,5.3s		
HRVD	XII	27 20 11 10.5±.1	55.97S±.01	3.72W±.02	15			
NEIC	Mw6.2(HRV).							
EIDC	Error ellipse is semi−major=18.0km semi−minor=17.2km azimuth=48							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c92; Mantle waves: s49,c89; Half duration: 2s8. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.18±.02; $M_{\theta\theta}$−0.53±.02; $M_{\phi\phi}$0.71±.02; $M_{r\theta}$0.34±.06; $M_{r\phi}$−0.37±.06; $M_{\theta\phi}$1.96±.02. Principal Axes: T 2.15,Plg3°,Azm126°; N −0.06,Plg75°,Azm26°; P −2.09,Plg14°,Azm217°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S260°,δ78°,λ−9°. NP2:ϕ_S352°,δ82°,λ−168°.							
(173) Tonga								
ISC	**XII**	**27 20 27 54.5**±.23	**17.68S**±.065	**174.75W**±.049	**33**	**5.1b,5.4s**	**320**	**5-165**
EIDC	XII	27 20 27 50.2±.55	17.6S	174.8W	0	4.9b,5.5s		**¶97xii5343**
NEIC	XII	27 20 27 54.4	17.60S	174.83W	33	5.3b,5.4s		
BJI	XII	27 20 27 54.8	17.35S	174.79W	26	5.2b,5.7s		
MOS	XII	27 20 27 57.2	17.6S	175.1W	33	5.6b,5.3s		
EIDC	Error ellipse is semi−major=23.4km semi−minor=17.1km azimuth=133							
(296) Myanmar								
ISC	**XII**	**30 13 43 19.1**±.15	**25.40N**±.029	**96.59E**±.024	**33**	**5.2b,5.8s**	**400**	**4-163**
EIDC	XII	30 13 43 15.9±.48	25.4N	96.7E	0	4.9b,5.7s		**¶97xii5742**
BJI	XII	30 13 43 18.0	25.44N	96.56E	26	5.1L,5.2b		
NDI	XII	30 13 43 18.6	26.38N	96.61E	33	4.5b		
NEIC	XII	30 13 43 18.6	25.38N	96.61E	33	5.4b,5.7s		
MOS	XII	30 13 43 19.2	25.3N	96.6E	33	5.7b,5.8s		
HRVD	XII	30 13 43 23.7±.2	25.01N±.02	96.52E±.03	54±2.0			
EIDC	Error ellipse is semi−major=15.6km semi−minor=11.6km azimuth=51							
BJI	Ms6.1							
NEIC	Mw5.8(HRV), Mw5.7(GS).							
NEIC	Moment tensor solution: s10, scale 10^{17}Nm; M_{rr}−0.04; $M_{\theta\theta}$4.12; $M_{\phi\phi}$−4.09; $M_{r\theta}$0.47; $M_{r\phi}$0.85; $M_{\theta\phi}$1.71. Depth 13km; Principal axes: T 4.55,Plg8°,Azm348°; N 0.00,Plg78°, Azm219°; P −4.55,Plg9°,Azm79°. Best double couple: $M_0$4.5×10^{17}Nm; NP1:ϕ_S124°,δ78°, λ−1°. NP2:ϕ_S214°,δ89°,λ−168°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c70; Mantle waves: s15,c27; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}0.18±.08; $M_{\theta\theta}$4.47±.13; $M_{\phi\phi}$−4.65±.14; $M_{r\theta}$0.60±.13; $M_{r\phi}$0.24±.12; $M_{\theta\phi}$2.27±.10. Principal Axes: T 5.09,Plg7°,Azm347°; N 0.10,Plg83°,Azm174°; P −5.18,Plg1°,Azm77°. Best double couple: $M_0$5.1×10^{17}Nm, NP1:ϕ_S122°,δ84°,λ5°. NP2:ϕ_S32°,δ85°,λ174°.							

MAJOR INTERMEDIATE FOCUS EARTHQUAKES
(60^k<h≤300^k,M≥5.5)

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
(224) Hokkaido region								
ISC	**VII**	**01 03 40 07.5**±.31	**42.51N**±.019	**144.66E**±.033	**71**±2.9	**5.0b**	**486**	**0-156**
BJI	VII	01 03 40 06.8	42.74N	144.71E	68	5.1b,4.2s		**¶97vii0024**
MOS	VII	01 03 40 06.9	42.7N	144.7E	61	5.7b		
HRVD	VII	01 03 40 07.3±.1	42.41N±.01	144.46E±.01	82±1.1			
NEIC	VII	01 03 40 07.3	42.66N	144.60E	65	5.1b		
EIDC	VII	01 03 40 08.5	42.5N	144.7E	64	4.8b,4.1s		
JMA	VII	01 03 40 08.6±.2	42.64N±.01	144.65E±.02	73±3	5.1		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.89±.36; $M_{\theta\theta}$1.89±.68; $M_{\phi\phi}$0.00±.67; $M_{r\theta}$5.67±.40; $M_{r\phi}$−0.15±.43; $M_{\theta\phi}$0.63±.52. Principal Axes: T 6.00,Plg35°,Azm355°; N 0.01, Plg6°,Azm89°; P −6.01,Plg54°,Azm188°. Best double couple: $M_0$6.0×10^{16}Nm, NP1:ϕ_S57°, δ11°,λ−123°. NP2:ϕ_S270°,δ81°,λ−84°.							
NEIC	Mw5.2(HRV).							
JMA	Felt I=III J1							
(207) Eastern New Guinea region								
ISC	**VII**	**07 09 15 53.0**±.51	**6.09S**±.030	**147.47E**±.037	**91**±4.9	**5.1b**	**208**	**1-164**
BJI	VII	07 09 15 45.0	6.50S	147.86E	64	5.2b,5.1s		**¶97vii1020**
MOS	VII	07 09 15 49.8	6.0S	147.4E	60	5.5b,5.0s		
NEIC	VII	07 09 15 50.2	6.06S	147.45E	64	5.2b,5.0s		
EIDC	VII	07 09 15 52.0	6.0S	147.4E	66	4.5b,4.8s		
HRVD	VII	07 09 15 57.5±.1	6.40S±.01	147.59E±.02	56			
NEIC	Mw5.8(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s67,c131; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}3.17±.06; $M_{\theta\theta}$−3.47±.08; $M_{\phi\phi}$0.29±.10; $M_{r\theta}$4.18±.09; $M_{r\phi}$−0.03±.07; $M_{\theta\phi}$−0.21±.07. Principal Axes: T 5.19,Plg64°,Azm3°; N 0.30, Plg2°,Azm269°; P −5.49,Plg26°,Azm178°. Best double couple: $M_0$5.3×10^{17}Nm, NP1: ϕ_S263°,δ19°,λ84°. NP2:ϕ_S90°,δ71°,λ92°.							
(706) Northern Sumatera								
ISC	**VII**	**07 11 19 09**±1.0	**1.10N**±.042	**97.61E**±.051	**62**±8.8	**5.0b**	**174**	**2-146**
MOS	VII	07 11 19 03.5	1.0N	97.6E	19	5.3b,5.5s		**¶97vii1031**
HRVD	VII	07 11 19 04.2±.8	0.50N±.07	97.00E±.07	43±6.0			
NEIC	VII	07 11 19 04.8	1.07N	97.60E	25	4.9b		
KLM	VII	07 11 19 05	1.0N	97.6E	25	4.2L		
DJA	VII	07 11 19 05.3	1.0N	97.3E	97	5.6b,4.6D		
BJI	VII	07 11 19 05.8	1.17N	97.49E	26	5.2b,5.7s		
EIDC	VII	07 11 19 06.0	1.0N	97.5E	25	4.8b,5.1L		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c38; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}0.73±.12; $M_{\theta\theta}$−0.78±.12; $M_{\phi\phi}$0.05±.16; $M_{r\theta}$1.24±.23; $M_{r\phi}$−1.43±.22; $M_{\theta\phi}$1.30±.16. Principal Axes: T 1.88,Plg55°,Azm80°; N 0.85, Plg19°,Azm320°; P −2.73,Plg28°,Azm220°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S269°,δ24°,λ36°. NP2:ϕ_S145°,δ76°,λ110°.							
NEIC	Mw5.5(HRV).							
KLM	Mb4.9							
(259) Mindanao								
ISC	**VII**	**10 03 40 31.3**±.97	**7.98N**±.030	**126.59E**±.040	**67**±9.1	**5.1b**	**241**	**1-171**
MOS	VII	10 03 40 28.7	8.0N	126.3E	40	5.8b		**¶97vii1440**
NEIC	VII	10 03 40 29.4	7.99N	126.59E	50	5.3b,4.5s		
BJI	VII	10 03 40 29.7	8.08N	126.74E	60	4.9b,4.6s		
EIDC	VII	10 03 40 32.8	7.9N	126.6E	67	5.0b,4.3s		
HRVD	VII	10 03 40 34.1±.6	7.73N±.08	126.72E±.08	55			
NEIC	Mw5.3(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}8.06±.65; $M_{\theta\theta}$−0.88±1.47; $M_{\phi\phi}$−7.18±1.37; $M_{r\theta}$6.90±1.94; $M_{r\phi}$2.24±1.40; $M_{\theta\phi}$−1.30±.78. Principal Axes: T 11.9,Plg62°,Azm351°; N −3.4,Plg22°,Azm212°; P −8.5,Plg17°,Azm115°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S176°,δ34°,λ48°. NP2:ϕ_S43°,δ65°,λ114°.							
(123) Northern Chile								
ISC	**VII**	**11 02 32 39.9**±.90	**18.78S**±.039	**69.33W**±.048	**83**±9.0	**5.1b**	**230**	**3-172**
BJI	VII	11 02 32 41.4	19.03S	68.60W	88	5.7s		**¶97vii1618**
NEIC	VII	11 02 32 42.2	18.86S	69.44W	106	5.1b		
EIDC	VII	11 02 32 43.6	18.9S	69.4W	106	4.9b,4.3s		
HRVD	VII	11 02 32 47.8±.4	18.93S±.04	69.71W±.05	131±1.9			
NEIC	Mw5.4(HRV)							
NEIC	Felt I=IV MM at Arica and II MM at Pisagua. Also felt II MM at Arequipa (after ARE).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c41; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.53±.05; $M_{\theta\theta}$−0.14±.07; $M_{\phi\phi}$0.67±.08; $M_{r\theta}$0.22±.04; $M_{r\phi}$−1.42±.06; $M_{\theta\phi}$−0.23±.08. Principal Axes: T 1.67,Plg33°,Azm78°; N −0.19, Plg3°,Azm170°; P −1.48,Plg57°,Azm265°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S154°,δ12°,λ−106°. NP2:ϕ_S351°,δ78°,λ−86°.							
(266) Molucca Passage								
ISC	**VII**	**11 12 35 52.8**±.68	**0.90N**±.026	**126.13E**±.030	**72**±6.9	**5.0b**	**227**	**1-164**
EIDC	VII	11 12 35 45.1	0.8N	126.0E	0	5.0b,5.2L		**¶97vii1685**
BJI	VII	11 12 35 50.7	0.87N	125.98E	59	5.1b,4.7s		
NEIC	VII	11 12 35 51.5	0.84N	126.11E	58	5.2b,4.3s		
MOS	VII	11 12 35 53.3	0.9N	126.1E	80	5.6b		

HRVD VII 11 12 35 53.9±1.0 0.78N±.08 126.07E±.08 82±5.0
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c37; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.53±.42; $M_{\theta\theta}$−6.63±.52; $M_{\phi\phi}$7.16±.79; $M_{r\theta}$−1.83±.65; $M_{r\phi}$−3.67±.58; $M_{\theta\phi}$6.03±.64. Principal Axes: T 10.9,Plg20°,Azm111°; N −2.0, Plg70°,Azm281°; P −8.9,Plg3°,Azm20°. Best double couple: $M_0$9.9×10^{16}Nm, NP1:ϕ_S154°, δ74°,λ168°. NP2:ϕ_S247°,δ79°,λ16°.

(296) Myanmar

ISC	**VII 11 14 54 50.3**±.70	**21.74N**±.030	**94.86E**±.030	**152**±6.9	**5.2b**	**409**	**5-167**
NEIC	VII 11 14 54 49.0	21.82N	94.88E	138	5.3b		**¶97vii1696**
BJI	VII 11 14 54 50.1	21.70N	94.76E	156	5.6b		
EIDC	VII 11 14 54 50.4	21.8N	94.9E	140	4.8b		
HRVD	VII 11 14 54 52.9±.5	21.41N±.05	94.64E±.05	150±1.6			

NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c53; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.00±.37; $M_{\theta\theta}$−4.42±.66; $M_{\phi\phi}$−0.58±.74; $M_{r\theta}$8.56±.40; $M_{r\phi}$−5.61±.50; $M_{\theta\phi}$−5.54±.61. Principal Axes: T 14.1,Plg48°,Azm44°; N −4.1, Plg33°,Azm268°; P −10.0,Plg23°,Azm162°. Best double couple: $M_0$1.2×10^{17}Nm, NP1: ϕ_S208°,δ37°,λ24°. NP2:ϕ_S98°,δ76°,λ124°.

(123) Northern Chile

ISC	**VII 13 18 10 15.3**±.88	**23.56S**±.040	**68.10W**±.050	**82**±8.7	**5.2b**	**231**	**2-169**
MOS	VII 13 18 10 19.5	23.7S	68.2W	129	5.5b		**¶97vii2005**
NEIC	VII 13 18 10 19.9	23.63S	68.12W	125	5.2b		
EIDC	VII 13 18 10 20.4	23.6S	68.0W	116	4.9b		
BJI	VII 13 18 10 22.5	23.93S	68.75W	137			
HRVD	VII 13 18 10 25.5±.6	23.34S±.09	68.53W±.14	141±4.7			

NEIC Mw5.3(HRV)
NEIC Felt I=IV MM at San Pedro de Atacama and III MM at Calama.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c16; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}0.69±.70; $M_{\theta\theta}$−2.74±1.01; $M_{\phi\phi}$2.05±1.14; $M_{r\theta}$4.97±.58; $M_{r\phi}$−5.11±.86; $M_{\theta\phi}$−8.23±1.36. Principal Axes: T 12.5,Plg31°,Azm52°; N −3.4, Plg58°,Azm249°; P −9.0,Plg8°,Azm146°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S193°, δ63°,λ18°. NP2:ϕ_S95°,δ74°,λ152°.

(243) Taiwan region

ISC	**VII 15 11 05 31.3**±.19	**24.75N**±.019	**122.55E**±.018	**104**±1.9	**5.5b**	**655**	**0-178**
NEIC	VII 15 11 05 31.3	24.71N	122.45E	103	5.6b		**¶97vii2296**
MOS	VII 15 11 05 31.6	24.8N	122.5E	100	5.6b		
BJI	VII 15 11 05 31.6	24.68N	122.52E	111	5.5b		
JMA	VII 15 11 05 32.4±.4	24.86N±.02	122.55E±.03	88	5.4		
EIDC	VII 15 11 05 32.9	24.8N	122.7E	109	5.0b,4.6s		
TAP	VII 15 11 05 33.4	24.62N	122.52E	87	6.1L		
HRVD	VII 15 11 05 33.7±.2	24.52N±.02	122.28E±.02	109±1.4			

NEIC MB6.2(BRK), Mw5.6(GS). Felt I=V MM.
NEIC Mw 5.6 (HRV). Mb 6.2 (BRK). Felt I=III J in eastern Hua-lien and I-lan; I J in the western part of Taiwan. Felt in much of Taiwan.
NEIC Moment tensor solution: s19, scale 10^{17}Nm; M_{rr}1.66; $M_{\theta\theta}$0.06; $M_{\phi\phi}$−1.73; $M_{r\theta}$0.57; $M_{r\phi}$−1.95; $M_{\theta\phi}$0.09. Depth 93km; Principal axes: T 2.65,Plg64°,Azm65°; N 0.01,Plg7°, Azm169°; P −2.65,Plg25°,Azm263°. Best double couple: $M_0$2.7×10^{17}Nm; NP1:ϕ_S8°,δ21°, λ110°. NP2:ϕ_S167°,δ70°,λ83°.
JMA Felt I=I J1
TAP Felt I=III J Ilan, Sun Moon Lake, Hwalien, Chengkung, II Suao, Taipei, Lanyu, Chiayi, Chiawan, Taichen, Hsinchu, Neicheng, Taichung, Alishan, I Santiao Chiao
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c83; Mantle waves: s6,c6; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.44±.04; $M_{\theta\theta}$−0.05±.06; $M_{\phi\phi}$−1.40±.08; $M_{r\theta}$0.63±.04; $M_{r\phi}$−1.84±.05; $M_{\theta\phi}$−0.44±.06. Principal Axes: T 2.57,Plg59°,Azm57°; N −0.26,Plg16°,Azm176°; P −2.31,Plg26°,Azm273°. Best double couple: $M_0$2.4×10^{17}Nm, NP1:ϕ_S35°,δ24°,λ132°. NP2:ϕ_S170°,δ72°,λ73°.

(128) Jujuy Province, Argentina

ISC	**VII 20 10 14 19.7**±.54	**22.84S**±.030	**66.22W**±.033	**222**±5.7	**5.7b**	**520**	**1-175**
BJI	VII 20 10 14 22.0	22.77S	66.63W	240			**¶97vii3070**
EIDC	VII 20 10 14 22.3	22.9S	66.3W	236	5.5b		
NEIC	VII 20 10 14 22.8	22.98S	66.30W	256	5.7b		
MOS	VII 20 10 14 23.1	22.7S	66.2W	250	5.9b		
HRVD	VII 20 10 14 29.5±.1	22.82S±.01	66.12W±.01	271±.6			

NEIC Mw6.1(GS), Me5.6(GS)
NEIC Radiated energy from the P−wave first−motion solution: 6.1±1.4×10^{12}Nm/17
NEIC Mw 6.1 (HRV). Mb 6.0 (BRK). Felt in parts of Jujuy Province. Felt I=IV MM at Calama and Mejillones; III MM at Antofagasta, San Pedro de Atacama and Tocopilla, Chile.
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S55°,δ75°,λ−110°. NP2:ϕ_S290°,δ25°,λ−38°. Principal axes: T Plg27°,Azm161°; P Plg56°,Azm300°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s38, scale 10^{17}Nm; M_{rr}−9.60; $M_{\theta\theta}$7.70; $M_{\phi\phi}$1.90; $M_{r\theta}$−9.50; $M_{r\phi}$−9.10; $M_{\theta\phi}$0.00. Depth 264km; Principal axes: T 13.4,Plg29°,Azm155°; N 4.1,Plg11°, Azm58°; P −17.4,Plg59°,Azm309°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S273°,δ19°, λ−54°. NP2:ϕ_S55°,δ74°,λ−102°.
NEIC Felt I=II MM at Arequipa (after ARE)
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c114; Mantle waves: s47,c72; Half duration: 2s6. Moment tensor: Scale 10^{17}Nm; M_{rr}−6.84±.10; $M_{\theta\theta}$9.39±.15; $M_{\phi\phi}$−2.55±.16; $M_{r\theta}$−9.93±.11; $M_{r\phi}$−7.95±.12; $M_{\theta\phi}$2.08±.15. Principal Axes: T 15.8,Plg28°,Azm160°; N −0.8,Plg18°,Azm60°; P −15.0,Plg56°,Azm302°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S289°,δ24°,λ−39°. NP2:ϕ_S55°,δ75°,λ−109°.

(202) New Guinea

ISC	**VII 20 10 49 44.6**±.44	**6.13S**±.033	**145.39E**±.041	**130**±4.7	**5.1b**	**148**	**1-155**
NEIC	VII 20 10 49 43.8	6.11S	145.37E	122	5.0b		**¶97vii3073**
BJI	VII 20 10 49 44.0	6.04S	145.41E	123	5.5b		
EIDC	VII 20 10 49 46.0	6.1S	145.5E	129	4.7b		

(248) Philippine Islands region

ISC	**VII 21 10 44 39**±1.2	**10.20N**±.030	**126.19E**±.048	**63**±12	**4.9b**	**162**	**3-165**
HRVD	VII 21 10 44 35.7±.7	10.13N±.07	126.41E±.10	66±9.3			**¶97vii3232**
NEIC	VII 21 10 44 38.2	10.20N	126.20E	56	5.0b,4.8s		
BJI	VII 21 10 44 38.4	10.27N	126.32E	60	5.1b,4.6s		
MOS	VII 21 10 44 38.5	10.1N	126.0E	60	5.5b,4.7s		
EIDC	VII 21 10 44 39.5	10.2N	126.2E	56	4.5b,4.5s		

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c27; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.80±.51; $M_{\theta\theta}$0.62±.55; $M_{\phi\phi}$3.18±.87; $M_{r\theta}$−0.63±.64; $M_{r\phi}$3.48±.46; $M_{\theta\phi}$0.65±.61. Principal Axes: T 4.65,Plg22°,Azm276°; N 0.70, Plg9°,Azm182°; P −5.35,Plg66°,Azm70°. Best double couple: $M_0$5.0×10^{16}Nm, NP1:ϕ_S23°, δ25°,λ−67°. NP2:ϕ_S178°,δ67°,λ−100°.
NEIC Mw5.1(HRV).

(193) Solomon Islands

ISC	**VII 22 10 16 58.1**±.86	**6.35S**±.028	**154.73E**±.030	**83**±8.0	**5.6b**	**389**	**3-160**
NEIC	VII 22 10 16 54.2	6.23S	154.68E	51	5.6b,5.2s		**¶97vii3360**
BJI	VII 22 10 16 54.7	6.20S	154.83E	54	5.8b,4.9s		
MOS	VII 22 10 16 56.2	6.2S	154.8E	65	6.1b,4.8s		
EIDC	VII 22 10 16 57.6	6.3S	154.8E	71	5.2b,4.9s		
HRVD	VII 22 10 16 59.1±.2	6.40S±.02	154.73E±.02	65±1.3			

NEIC Mw5.5(GS), Mw5.5(HRV).
NEIC Moment tensor solution: s16, scale 10^{17}Nm; M_{rr}1.98; $M_{\theta\theta}$−0.21; $M_{\phi\phi}$−1.77; $M_{r\theta}$−0.24; $M_{r\phi}$0.29; $M_{\theta\phi}$1.02. Depth 39km; Principal axes: T 2.01,Plg84°,Azm213°; N 0.29,Plg3°, Azm333°; P −2.30,Plg5°,Azm64°. Best double couple: $M_0$2.2×10^{17}Nm; NP1:ϕ_S157°,δ40°, λ94°. NP2:ϕ_S331°,δ50°,λ86°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c81; Mantle waves: s3,c4; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}2.06±.03; $M_{\theta\theta}$−1.08±.06; $M_{\phi\phi}$−0.98±.07; $M_{r\theta}$0.44±.05; $M_{r\phi}$0.05±.05; $M_{\theta\phi}$1.04±.04. Principal Axes: T 2.13,Plg80°,Azm336°; N −0.04,Plg9°,Azm132°; P −2.09,Plg4°,Azm223°. Best double couple: $M_0$2.1×10^{17}Nm, NP1:ϕ_S323°,δ42°,λ104°. NP2:ϕ_S125°,δ50°,λ78°.

(265) Minahassa Peninsula (Celebes)

ISC	**VII 23 03 23 47.5**±.64	**0.10S**±.029	**123.04E**±.031	**160**±6.4	**5.2b**	**258**	**2-162**
KLM	VII 23 03 23 45	0.1S	123.0E	131	4.9L		**¶97vii3474**
NEIC	VII 23 03 23 45.5	0.03S	123.00E	139	5.4b		
BJI	VII 23 03 23 45.6	0.06S	123.19E	135	5.3b		
DJA	VII 23 03 23 45.7	0.0N	123.1E	141	5.8b,5.4D		
EIDC	VII 23 03 23 46.1	0.0N	123.3E	131	4.8b		
MOS	VII 23 03 23 47.3	0.0S	123.0E	155	5.5b		
HRVD	VII 23 03 23 50.3±.3	0.26N±.03	123.12E±.04	124±2.3			

KLM Mb5.4
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c54; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.72±.30; $M_{\theta\theta}$−2.81±.42; $M_{\phi\phi}$−2.92±.58; $M_{r\theta}$−7.05±.32; $M_{r\phi}$5.32±.35; $M_{\theta\phi}$3.01±.40. Principal Axes: T 10.5,Plg61°,Azm213°; N 0.1, Plg4°,Azm310°; P −10.6,Plg28°,Azm42°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S142°, δ17°,λ103°. NP2:ϕ_S309°,δ73°,λ86°.

(267) Djailolo Gilolo (Halmahera)

ISC	**VIII 01 08 14 01.8**±.88	**1.51N**±.037	**127.18E**±.060	**160**±9.4	**4.8b**	**69**	**7-165**
EIDC	VIII 01 08 14 00.4	1.4N	126.9E	131	4.2b		**¶97viii0039**
MOS	VIII 01 08 14 00.8	1.5N	127.3E	146	5.6b		
BJI	VIII 01 08 14 00.9	1.69N	127.55E	149	4.5b		
NEIC	VIII 01 08 14 01.6	1.48N	127.18E	155	5.0b		

(280) Banda Sea

ISC	**VIII 04 07 06 54.9**±.68	**6.32S**±.028	**130.19E**±.034	**113**±7.0	**5.4b**	**241**	**6-161**
BJI	VIII 04 07 06 53.0	6.42S	130.29E	107	5.7b		**¶97viii0471**
NEIC	VIII 04 07 06 54.3	6.26S	130.14E	110	5.5b		
MOS	VIII 04 07 06 54.6	6.3S	130.2E	109	5.6b		
EIDC	VIII 04 07 06 57.4	6.3S	130.3E	127	5.1b		
DJA	VIII 04 07 06 57.7	6.7S	130.4E	192	5.6b,4.3D		
HRVD	VIII 04 07 07 00.3±.4	6.10S±.03	130.36E±.05	130±1.4			

NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c53; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.67±.04; $M_{\theta\theta}$−1.21±.05; $M_{\phi\phi}$0.54±.07; $M_{r\theta}$0.28±.04; $M_{r\phi}$0.50±.04; $M_{\theta\phi}$0.16±.05. Principal Axes: T 1.15,Plg48°,Azm282°; N 0.10, Plg41°,Azm86°; P −1.26,Plg8°,Azm183°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S309°, δ52°,λ146°. NP2:ϕ_S62°,δ64°,λ43°.

(718) Hindu Kush region

ISC	**VIII 06 15 00 11.7**±.45	**36.46N**±.029	**70.89E**±.026	**203**±4.8	**4.8b**	**357**	**3-150**
RYD	VIII 06 14 59 39.3	41.67N	67.75E	45	4.3D		**¶97viii0810**
BJI	VIII 06 15 00 10.1	36.47N	70.84E	189	5.3b		
NEIC	VIII 06 15 00 10.4	36.44N	70.92E	193	4.9b		
MOS	VIII 06 15 00 11.3	36.6N	70.9E	192	5.5b		
EIDC	VIII 06 15 00 12.5	36.4N	70.8E	198	4.7b		

(230) Near south coast of Honshū

ISC	**VIII 08 20 34 48.2**±.18	**35.81N**±.018	**139.46E**±.023	**76**±1.7	**4.8b**	**358**	**0-159**
BJI	VIII 08 20 34 45.6	35.92N	139.69E	72	4.9b,4.4s		**¶97viii1161**
MOS	VIII 08 20 34 46.6	35.8N	139.5E	66	5.5b,4.2s		
NEIC	VIII 08 20 34 47.1	35.70N	139.36E	68	4.9b		
EIDC	VIII 08 20 34 48.0	35.7N	139.5E	64	4.7b,4.0s		
JMA	VIII 08 20 34 48.6±.1	35.83N±.01	139.50E±.01	67±2	4.7		
HRVD	VIII 08 20 34 49.6±.1	35.37N±.01	139.22E±.01	80±1.0			

NEIC Mw5.1(HRV).
JMA Felt I=III J1
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}1.93±.32; $M_{\theta\theta}$0.76±.63; $M_{\phi\phi}$−2.69±.71; $M_{r\theta}$−4.11±.37; $M_{r\phi}$0.03±.65; $M_{\theta\phi}$−0.72±.44. Principal Axes: T 5.53,Plg49°,Azm185°; N −2.23,Plg28°,Azm58°; P −3.29,Plg27°,Azm312°. Best double couple: $M_0$4.4×10^{16}Nm, NP1: ϕ_S355°,δ31°,λ23°. NP2:ϕ_S244°,δ78°,λ119°.

(250) Mindoro

ISC	**VIII 09 14 25 43.9**±.59	**13.75N**±.036	**120.80E**±.058	**122**±5.3	**4.6b**	**127**	**0-171**
MOS	VIII 09 14 25 34.3	13.7N	120.6E	33	5.5b		**¶97viii1267**
BJI	VIII 09 14 25 42.2	13.69N	120.91E	117	5.0b		
NEIC	VIII 09 14 25 42.4	13.72N	120.74E	109	4.7b		
EIDC	VIII 09 14 25 43.9	13.8N	120.8E	113	4.2b,3.5s		

(259) Mindanao

ISC	**VIII 10 14 13 09.6**±.76	**6.21N**±.032	**126.43E**±.059	**74**±7.0	**5.1b**	**143**	**1-163**
MOS	VIII 10 14 13 05.3	6.4N	126.6E	38	5.7b		**¶97viii1403**
BJI	VIII 10 14 13 07.6	6.21N	126.60E	64	5.4b,4.7s		
NEIC	VIII 10 14 13 08.2	6.23N	126.37E	61	5.3b		
EIDC	VIII 10 14 13 08.4	6.2N	126.5E	54	4.8b,4.2s		
HRVD	VIII 10 14 13 10.9±.4	6.27N±.05	126.24E±.05	87±5.5			

NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c36; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.89±.56; $M_{\theta\theta}$6.67±.70; $M_{\phi\phi}$−5.78±1.09; $M_{r\theta}$−8.97±.58; $M_{r\phi}$7.58±.55; $M_{\theta\phi}$−3.82±.68. Principal Axes: T 15.3,Plg35°,Azm205°; N −3.6, Plg30°,Azm318°; P −11.7,Plg41°,Azm77°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S236°,δ30°,λ−173°. NP2:ϕ_S140°,δ87°,λ−60°.

(80) Panama-Costa Rica border region

ISC	**VIII 15 07 35 37**±1.5	**8.64N**±.067	**82.95W**±.071	**84**±15	**4.5b**	**105**	**9-153**
EIDC	VIII 15 07 35 26.8	8.7N	82.9W	0	4.5b		**¶97viii2176**
BJI	VIII 15 07 35 29.1	8.15N	83.18W	41	6.2s		
NEIC	VIII 15 07 35 30.8	8.65N	82.90W	33	4.8b		

(286) Flores region

ISC	**VIII 17 04 53 47.1**±.76	**8.55S**±.033	**120.61E**±.035	**100**±7.6	**5.3b**	**288**	**4-154**
MOS	VIII 17 04 53 43.5	8.5S	120.5E	71	5.7b		**¶97viii2486**
BJI	VIII 17 04 53 43.9	8.45S	120.83E	66	5.1b,4.9s		
NEIC	VIII 17 04 53 43.9	8.47S	120.55E	74	5.6b		
DJA	VIII 17 04 53 48.9	8.9S	120.5E	160	6.6b		
EIDC	VIII 17 04 53 51.7	8.5S	120.8E	125	4.7b		
HRVD	VIII 17 04 53 52.7±.5	8.47S	120.55E	129±3.7			

ISC DJA magnitude calculations may be overestimated
NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c33; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}4.57±.62; $M_{\theta\theta}$1.76±.89; $M_{\phi\phi}$−6.32±1.12; $M_{r\theta}$−9.20±.55; $M_{r\phi}$−0.69±.82; $M_{\theta\phi}$5.14±1.04. Principal Axes: T 13.3,Plg46°,Azm163°; N −3.2,Plg38°,Azm306°; P −10.0,Plg19°,Azm52°. Best double couple: $M_0$1.2×10^{17}Nm, NP1: ϕ_S185°,δ42°,λ156°. NP2:ϕ_S294°,δ74°,λ51°.

(266) Molucca Passage

ISC	**VIII 17 05 59 03.1**±.77	**2.41N**±.029	**126.17E**±.049	**82**±7.7	**4.9b**	**119**	**2-160**
BJI	VIII 17 05 59 02.0	2.39N	125.99E	75	5.1b,4.9s		**¶97viii2493**
MOS	VIII 17 05 59 02.3	2.4N	126.1E	71	5.5b		
NEIC	VIII 17 05 59 02.6	2.38N	126.12E	75	5.0b		
EIDC	VIII 17 05 59 02.9	2.4N	126.1E	64	4.6b,4.0s		
HRVD	VIII 17 05 59 06.5±.6	2.82N±.05	125.93E±.10	114±5.2			

NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c16; Half

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	*n*	Δ-Rng °

duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.53±.87; $M_{\theta\theta}$−1.14±1.11; $M_{\phi\phi}$−2.39±1.51; $M_{r\theta}$4.82±.83; $M_{r\phi}$8.21±.78; $M_{\theta\phi}$−0.92±1.06. Principal Axes: T 10.4,Plg54°,Azm301°; N −0.7, Plg1°,Azm210°; P −9.7,Plg36°,Azm120°. Best double couple: M0 1.0×10^{17}Nm, NP1:ϕ_S206°, δ9°,λ86°. NP2:ϕ_S30°,δ81°,λ91°.

(259) Mindanao

ISC	**VIII 19 11 33 31.8**±.61	**6.63N**±.027	**126.42E**±.047	**84**±5.8	**5.1b**	**122**	**1-163**	
EIDC	VIII 19 11 33 22.7	6.7N	126.3E	0	4.9b,4.0s			¶97viii2801
HRVD	VIII 19 11 33 27.5±.2	7.05N±.01	126.15E±.02	46±1.3				
NEIC	VIII 19 11 33 29.8	6.71N	126.43E	69	5.4b			
BJI	VIII 19 11 33 30.3	6.57N	126.47E	67	4.9b			
MOS	VIII 19 11 33 30.6	6.7N	126.4E	74	5.5b			

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c15; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.72±.73; $M_{\theta\phi}$1.38±.76; $M_{\phi\phi}$2.33±1.27; $M_{r\theta}$−9.78±2.44; $M_{r\phi}$1.60±1.33; $M_{\theta\phi}$4.39±.83. Principal Axes: T 9.9,Plg31°,Azm156°; N 2.5, Plg25°,Azm262°; P −12.4,Plg48°,Azm23°. Best double couple: M0 1.1×10^{17}Nm, NP1: ϕ_S195°,δ27°,λ−159°. NP2:ϕ_S87°,δ81°,λ−65°.

NEIC Mw5.3(HRV).

(265) Minahassa Peninsula (Celebes)

ISC	**VIII 26 10 00 55.3**±.61	**0.82N**±.033	**124.63E**±.057	**172**±7.0	**4.6b**	**77**	**5-164**	
BJI	VIII 26 10 00 53.1	0.60N	124.78E	171	4.5b			¶97viii3830
NEIC	VIII 26 10 00 53.7	0.85N	124.64E	152	5.0b			
EIDC	VIII 26 10 00 54.0	0.8N	124.8E	144	4.2b			
DJA	VIII 26 10 00 59.4	0.3N	124.7E	29	6.2b,5.4L			

ISC DJA magnitude calculations may be overestimated

(192) New Britain region

ISC	**VIII 27 13 42 56.5**±.75	**6.05S**±.029	**148.54E**±.037	**69**±7.1	**5.3b**	**297**	**1-164**	
NEIC	VIII 27 13 42 52.7	6.02S	148.57E	33	5.7b,5.7s			¶97viii3990
MOS	VIII 27 13 42 53.0	6.0S	148.5E	33	6.0b,5.5s			
BJI	VIII 27 13 42 53.3	5.94S	148.59E	39	5.1b,5.5s			
EIDC	VIII 27 13 42 55.4	6.1S	148.7E	47	4.7b,5.4s			
HRVD	VIII 27 13 43 01.6±.1	6.38S±.01	148.85E±.01	40±.9				

NEIC Mw5.9(HRV), Me5.5(GS).
NEIC Mw 5.8 (GS).
NEIC Radiated energy from the P−wave first−motion solution: 3.4±0.6×10^{12}Nm/9
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S60°,δ45°,λ120°. NP2:ϕ_S201°,δ52°,λ63°. Principal axes: T Plg69°,Azm49°; P Plg4°,Azm309°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s29, scale 10^{17}Nm; M_{rr}6.14; $M_{\theta\theta}$−5.04; $M_{\phi\phi}$−1.08; $M_{r\theta}$1.47; $M_{r\phi}$−0.33; $M_{\theta\phi}$0.25. Depth 34km; Principal axes: T 6.34,Plg82°,Azm17°; N −1.09,Plg2°, Azm274°; P −5.25,Plg7°,Azm184°. Best double couple: M0 5.8×10^{17}Nm; NP1:ϕ_S272°,δ38°, λ87°. NP2:ϕ_S96°,δ52°,λ92°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c120; Mantle waves: s10,c16; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}7.61±.10; $M_{\theta\theta}$−8.80±.12; $M_{\phi\phi}$1.19±.16; $M_{r\theta}$3.63±.22; $M_{r\phi}$−0.06±.16; $M_{\theta\phi}$−0.06±.11. Principal Axes: T 8.38,Plg78°,Azm3°; N 1.19,Plg1°,Azm270°; P −9.56,Plg12°,Azm180°. Best double couple: M0 9.0×10^{17}Nm, NP1:ϕ_S269°,δ33°,λ89°. NP2:ϕ_S90°,δ57°,λ91°.

(259) Mindanao

ISC	**VIII 29 19 21 59.9**±.74	**5.42N**±.024	**126.47E**±.047	**67**±6.8	**5.0b**	**212**	**2-168**	
MOS	VIII 29 19 21 56.1	5.5N	126.4E	33	5.6b,4.8s			¶97viii4367
NEIC	VIII 29 19 21 56.2	5.44N	126.43E	33	5.1b,4.9s			
BJI	VIII 29 19 21 56.3	5.38N	126.13E	27	5.3b,4.8s			
EIDC	VIII 29 19 21 57.1	5.4N	126.4E	25	4.8b,4.7s			
HRVD	VIII 29 19 22 02.5±.3	5.37N±.03	126.93E±.03	36±2.3				

NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s38,c66; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.42±.04; $M_{\theta\theta}$0.28±.05; $M_{\phi\phi}$−1.69±.07; $M_{r\theta}$0.18±.10; $M_{r\phi}$0.76±.10; $M_{\theta\phi}$−0.59±.04. Principal Axes: T 1.59,Plg77°,Azm279°; N 0.44, Plg1°,Azm15°; P −2.03,Plg13°,Azm105°. Best double couple: M0 1.8×10^{17}Nm, NP1:ϕ_S197°, δ32°,λ93°. NP2:ϕ_S14°,δ58°,λ88°.

(103) Colombia

ISC	**IX 02 12 13 23.1**±.26	**3.88N**±.025	**75.70W**±.021	**196**±2.5	**6.2b**	**782**	**0-178**	
BJI	IX 02 12 13 21.7	3.74N	75.76W	201				¶97ix0276
NEIC	IX 02 12 13 22.9	3.85N	75.75W	199	6.5b			
MOS	IX 02 12 13 23.5	3.8N	75.8W	208	7.0b			
EIDC	IX 02 12 13 24.3	3.8N	75.6W	202	5.8b,6.0s			
HRVD	IX 02 12 13 33.6±.1	4.00N	75.57W±.01	213±.3				

NEIC Mw6.8(GS), Me6.5(GS)
NEIC Radiated energy from the P−wave first−motion solution: 1.2±0.3×10^{14}Nm/20
NEIC Mw 6.8 (HRV). Mb 6.0 (BRK). Felt at Armenia, Bogota, Cali, Ibague, Manizales, Medellin, Pereira and many other parts of central and western Colombia. Also felt I=II MM at Panama City and Penonome, Panama. Mo=8.0×10^{18}Nm (PPT).
NEIC Moment tensor solution: s49, scale 10^{19}Nm; M_{rr}1.20; $M_{\theta\theta}$−2.01; $M_{\phi\phi}$0.81; $M_{r\theta}$0.41; $M_{r\phi}$−0.33; $M_{\theta\phi}$0.49. Depth 211km; Principal axes: T 1.40,Plg62°,Azm86°; N 0.76,Plg27°, Azm284°; P −2.15,Plg8°,Azm190°. Best double couple: M0 1.8×10^{19}Nm; NP1:ϕ_S252°,δ44°, λ49°. NP2:ϕ_S123°,δ58°,λ122°.
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S122°,δ67°,λ120°. NP2:ϕ_S246°,δ37°,λ40°. Principal axes: T Plg57°,Azm73°; P Plg17°,Azm190°. Complex earthquake. A small event is followed by at least three larger events about 1.0, 4.0 and 7.0 seconds later. Depth and focal mechanism based on first of the larger events.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c135; Mantle waves: s54,c134; Half duration: 5s5. Moment tensor: Scale 10^{19}Nm; M_{rr}1.16±.01; $M_{\theta\theta}$−2.00±.01; $M_{\phi\phi}$0.84±.01; $M_{r\theta}$0.01±.00; $M_{r\phi}$−0.13±.01; $M_{\theta\phi}$0.28±.01. Principal Axes: T 1.21,Plg70°,Azm95°; N 0.82,Plg20°,Azm276°; P −2.03,Plg0°,Azm186°. Best double couple: M0 1.6×10^{19}Nm, NP1:ϕ_S256°,δ48°,λ62°. NP2:ϕ_S115°,δ49°,λ117°.
BOG Felt at Cali, Lbague, Bogota, and in epicentral area

(230) Near south coast of Honshū

ISC	**IX 07 23 40 38.6**±.18	**35.56N**±.019	**139.92E**±.023	**112**±1.4	**5.2b**	**566**	**0-163**	
MOS	IX 07 23 40 36.7	35.5N	139.9E	100	5.4b			¶97ix1143
BJI	IX 07 23 40 36.9	35.48N	139.92E	116	5.5b			
NEIC	IX 07 23 40 37.5	35.44N	139.77E	106	5.2b			
EIDC	IX 07 23 40 38.0	35.6N	139.7E	95	4.8b,4.1s			
JMA	IX 07 23 40 38.4±.2	35.55N±.01	140.00E±.01	109±2	5.2			
HRVD	IX 07 23 40 38.4±.5	35.44N±.04	140.16E±.09	110±3.2				

NEIC Mw5.2(HRV)
NEIC Felt I=III J1 at Tokyo.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c34; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.70±.28; $M_{\theta\theta}$−5.94±.55; $M_{\phi\phi}$2.24±.60; $M_{r\theta}$2.50±.41; $M_{r\phi}$4.83±.37; $M_{\theta\phi}$0.60±.43. Principal Axes: T 8.22,Plg49°,Azm285°; N −1.62, Plg36°,Azm73°; P −6.60,Plg16°,Azm175°. Best double couple: M0 7.4×10^{16}Nm, NP1: ϕ_S305°,δ43°,λ150°. NP2:ϕ_S58°,δ70°,λ51°.

(274) Southern Sumatera

ISC	**IX 13 06 45 58.9**±.76	**4.46S**±.045	**102.75E**±.051	**62**±6.8	**5.0b**	**168**	**1-158**	
DJA	IX 13 06 45 51.3	5.3S	101.8E	93	5.7L,5.4b			¶97ix1939
MOS	IX 13 06 45 58.5	4.3S	102.9E	60	5.5b			
BJI	IX 13 06 46 01.8	4.92S	102.74E	128	5.1b			
NEIC	IX 13 06 46 02.9	4.45S	102.84E	97	5.0b			
KLM	IX 13 06 46 03	4.4S	102.8E	97	4.4L			
EIDC	IX 13 06 46 04.3	4.5S	102.8E	96	4.6b,4.3s			
HRVD	IX 13 06 46 07.4±.7	4.45S	102.84E	97				

NEIC Mw5.2(HRV)
NEIC Felt I=III MM at Bengkulu and Manna.
KLM Mb5.0
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.61±.47; $M_{\theta\theta}$−3.47±.55; $M_{\phi\phi}$0.86±.82; $M_{r\theta}$5.38±.57; $M_{r\phi}$0.77±.78; $M_{\theta\phi}$2.91±.71. Principal Axes: T 6.59,Plg51°,Azm325°; N 0.60, Plg27°,Azm93°; P −7.19,Plg27°,Azm197°. Best double couple: M0 6.9×10^{16}Nm, NP1: ϕ_S332°,δ30°,λ153°. NP2:ϕ_S86°,δ77°,λ62°.

(259) Mindanao

ISC	**IX 15 13 05 44.7**±.58	**8.09N**±.022	**126.59E**±.028	**69**±5.4	**5.4b**	**385**	**0-171**	
BJI	IX 15 13 05 42.0	8.12N	126.51E	48	5.2b,5.7s			¶97ix2247
NEIC	IX 15 13 05 42.7	8.10N	126.64E	51	5.8b,5.7s			
MOS	IX 15 13 05 43.8	8.1N	126.6E	57	6.1b,5.7s			
EIDC	IX 15 13 05 44.1	8.0N	126.5E	49	5.1b			
HRVD	IX 15 13 05 48.9±.1	8.03N±.01	126.93E±.01	51±.5				

NEIC Mw6.2(GS), Me5.7(GS).
NEIC Mw 6.1 (HRV).
NEIC Radiated energy from the P−wave first−motion solution: 9.0±1.6×10^{12}Nm/15
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S20°,δ45°,λ120°. NP2:ϕ_S161°,δ52°,λ63°. Principal axes: T Plg69°,Azm9°; P Plg4°,Azm269°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s27, scale 10^{18}Nm; M_{rr}1.88; $M_{\theta\theta}$0.31; $M_{\phi\phi}$−2.20; $M_{r\theta}$0.18; $M_{r\phi}$0.36; $M_{\theta\phi}$0.26. Depth 39km; Principal axes: T 1.94,Plg81°,Azm322°; N 0.31,Plg7°,Azm175°; P −2.25,Plg5°,Azm85°. Best double couple: M0 2.1×10^{18}Nm; NP1:ϕ_S166°,δ41°,λ78°. NP2:ϕ_S1°, δ50°,λ100°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s51,c109; Mantle waves: s38,c55; Half duration: 2s6. Moment tensor: Scale 10^{18}Nm; M_{rr}1.39±.01; $M_{\theta\theta}$0.03±.01; $M_{\phi\phi}$−1.42±.02; $M_{r\theta}$0.35±.02; $M_{r\phi}$0.22±.02; $M_{\theta\phi}$−0.04±.01. Principal Axes: T 1.49,Plg76°,Azm343°; N −0.05,Plg13°,Azm184°; P −1.44,Plg5°,Azm93°. Best double couple: M0 1.5×10^{18}Nm, NP1:ϕ_S169°,δ42°,λ70°. NP2:ϕ_S15°,δ51°,λ107°.

(178) Kermadec Islands

ISC	**IX 20 18 11 00.4**±.21	**29.06S**±.047	**177.59W**±.050	**67**±2.1*	**5.4b**	**367**	**0-171**	
MOS	IX 20 18 10 56.9	28.7S	177.7W	33	5.9b			¶97ix2981
NEIC	IX 20 18 11 01.3	28.90S	177.65W	74	5.6b			
BJI	IX 20 18 11 01.7	28.01S	176.77W	76	5.6b,6.1s			
EIDC	IX 20 18 11 06.3	28.8S	177.7W	100	5.0b			

WEL Felt I=IV MM Raoul Island

(280) Banda Sea

ISC	**IX 26 15 48 34.4**±.55	**5.37S**±.025	**128.98E**±.028	**254**±5.8	**5.7b**	**473**	**2-168**	
BJI	IX 26 15 48 34.1	5.42S	128.91E	254	5.5b			¶97ix4065
NEIC	IX 26 15 48 34.2	5.39S	128.99E	254	5.8b			
MOS	IX 26 15 48 35.7	5.3S	129.0E	263	5.9b			
EIDC	IX 26 15 48 36.0	5.4S	129.0E	253	5.5b			
HRVD	IX 26 15 48 39.5±.1	5.29S±.01	129.13E±.01	268±.6				

NEIC Me6.1(GS), Mw6.0(GS).
NEIC Mw 6.0 (HRV).
NEIC Radiated energy from the P−wave first−motion solution: 2.8±0.9×10^{13}Nm/11
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S240°,δ53°,λ50°. NP2:ϕ_S114°,δ52°,λ130°. Principal axes: T Plg59°,Azm88°; P Plg0°,Azm357°. Complex earthquake with at least one larger event occurring about 5 seconds after the onset, observed on broadband displacement seismograms.
NEIC Moment tensor solution: s22, scale 10^{18}Nm; M_{rr}0.78; $M_{\theta\theta}$−1.10; $M_{\phi\phi}$0.32; $M_{r\theta}$−0.05; $M_{r\phi}$−0.50; $M_{\theta\phi}$−0.50. Depth 245km; Principal axes: T 1.12,Plg54°,Azm79°; N 0.16,Plg35°, Azm247°; P −1.28,Plg6°,Azm341°. Best double couple: M0 1.2×10^{18}Nm; NP1:ϕ_S103°,δ50°, λ139°. NP2:ϕ_S223°,δ60°,λ48°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c134; Mantle waves: s45,c71; Half duration: 2s6. Moment tensor: Scale 10^{18}Nm; M_{rr}0.96±.01; $M_{\theta\theta}$−1.17±.01; $M_{\phi\phi}$0.21±.02; $M_{r\theta}$−0.20±.01; $M_{r\phi}$−0.64±.01; $M_{\theta\phi}$−0.43±.01. Principal Axes: T 1.33,Plg60°,Azm88°; N 0.03,Plg28°,Azm245°; P −1.36,Plg10°,Azm341°. Best double couple: M0 1.3×10^{18}Nm, NP1:ϕ_S101°,δ43°,λ134°. NP2:ϕ_S228°,δ61°,λ57°.

(248) Philippine Islands region

ISC	**IX 26 20 44 31.5**±.86	**10.03N**±.031	**126.04E**±.067	**75**±7.6	**4.8b**	**119**	**2-165**	
BJI	IX 26 20 44 21.0	9.42N	126.35E	33	5.0b,4.5s			¶97ix4138
MOS	IX 26 20 44 26.0	10.0N	126.2E	33	5.5b			
NEIC	IX 26 20 44 27.1	10.06N	126.02E	33	5.0b,4.1s			
EIDC	IX 26 20 44 28.8	9.9N	126.0E	37	4.6b,4.2s			
HRVD	IX 26 20 44 34.4±.1	10.14N±.01	126.31E±.01	38±1.1				

NEIC Mw5.1(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c16; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.94±.38; $M_{\theta\theta}$0.34±.56; $M_{\phi\phi}$−4.28±.64; $M_{r\theta}$1.71±1.00; $M_{r\phi}$0.52±.79; $M_{\theta\phi}$−0.41±.38. Principal Axes: T 4.64,Plg68°,Azm355°; N −0.26,Plg22°,Azm189°; P −4.37,Plg5°,Azm97°. Best double couple: M0 4.5×10^{16}Nm, NP1: ϕ_S165°,δ44°,λ58°. NP2:ϕ_S26°,δ54°,λ117°.

(123) Northern Chile

ISC	**IX 28 23 13 13.8**±.17	**22.44S**±.033	**68.42W**±.037	**107**±.4*	**5.6b**	**447**	**3-176**	
BJI	IX 28 23 13 13.9	22.40S	68.50W	107				¶97ix4785
NEIC	IX 28 23 13 13.9	22.41S	68.45W	107	5.7b			
EIDC	IX 28 23 13 14.3	22.4S	68.4W	97	5.4b,4.4s			
MOS	IX 28 23 13 17.7	22.3S	68.5W	136	5.8b			
HRVD	IX 28 23 13 24.5±.3	22.22S±.04	68.31W±.04	146±1.5				

NEIC Mw5.6(GS), Mw5.6(HRV)
NEIC Felt I=V MM at Calama and Chuquicamata, III MM at San Pedro de Atacama and II MM at Antofagasta.
NEIC Moment tensor solution: s23, scale 10^{17}Nm; M_{rr}−2.44; $M_{\theta\theta}$0.01; $M_{\phi\phi}$2.43; $M_{r\theta}$0.67; $M_{r\phi}$−0.46; $M_{\theta\phi}$−0.48. Depth 109km; Principal axes: T 2.59,Plg7°,Azm78°; N 0.04,Plg12°, Azm346°; P −2.64,Plg76°,Azm196°. Best double couple: M0 2.6×10^{17}Nm; NP1:ϕ_S181°,δ40°, λ−71°. NP2:ϕ_S337°,δ53°,λ−105°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c67; Mantle waves: s8,c8; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.15±.07; $M_{\theta\theta}$−0.20±.13; $M_{\phi\phi}$2.35±.13; $M_{r\theta}$0.41±.08; $M_{r\phi}$0.94±.09; $M_{\theta\phi}$−0.72±.12. Principal Axes: T 2.68,Plg10°,Azm257°; N −0.20,Plg16°,Azm350°; P −2.48,Plg71°,Azm137°. Best double couple: M0 2.6×10^{17}Nm, NP1:ϕ_S328°,δ38°,λ−117°. NP2:ϕ_S181°,δ57°,λ−71°.

(153) South Sandwich Islands region

ISC	**X 05 18 04 31**±1.4	**59.74S**±.033	**29.44W**±.083	**274**±13	**5.8b**	**616**	**14-177**	
BJI	X 05 18 04 28.0	59.70S	29.20W	274				¶97x0901
NEIC	X 05 18 04 30.0	59.74S	29.20W	274	6.0b			
MOS	X 05 18 04 31.0	59.6S	29.1W	274	6.1b			
EIDC	X 05 18 04 32.3	59.7S	29.3W	283	5.8b			
HRVD	X 05 18 04 38.1±.1	59.90S±.01	28.92W±.01	285±.4				

NEIC Mw6.3(GS), Me6.0(GS).
NEIC Mw 6.3 (HRV). Mo=4.9×10^{18}Nm (PPT).
NEIC Radiated energy from the P−wave first−motion solution: 1.9±0.4×10^{13}Nm/10
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S160°,δ50°,λ−90°. NP2:ϕ_S340°,δ40°,λ−90°. Principal axes: T Plg5°,Azm250°; P Plg85°,Azm70°. Depth from broadband displacement seismograms.
NEIC Moment tensor solution: s13, scale 10^{18}Nm; M_{rr}−3.52; $M_{\theta\theta}$0.78; $M_{\phi\phi}$2.76; $M_{r\theta}$−0.75; $M_{r\phi}$1.37; $M_{\theta\phi}$−0.25. Depth 269km; Principal axes: T 3.11,Plg13°,Azm260°; N 0.79,Plg6°, Azm169°; P −3.91,Plg76°,Azm53°. Best double couple: M0 3.5×10^{18}Nm; NP1:ϕ_S358°,δ33°, λ−79°. NP2:ϕ_S165°,δ58°,λ−97°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s64,c159; Mantle waves: s63,c117; Half duration: 3s4. Moment tensor: Scale 10^{18}Nm; M_{rr}−3.48±.02;

$M_{\theta\theta}$1.02±.03; $M_{\phi\phi}$2.46±.03; $M_{r\theta}$−1.24±.02; $M_{r\phi}$0.88±.02; $M_{\theta\phi}$−0.37±.03. Principal Axes: T 2.78,Plg11°,Azm250°; N 1.11,Plg10°,Azm158°; P −3.89,Plg75°,Azm27°. Best double couple: $M_0$3.3×10^{18}Nm, NP1:ϕ_S353°,δ35°,λ−72°. NP2:ϕ_S152°,δ57°,λ−102°.

(259) Mindanao

ISC	X	05 19 00 04.4±.39	5.66N±.022	125.45E±.032	247±4.0	5.4b	343 1-168
NEIC	X	05 19 00 02.3	5.68N	125.45E	224	5.6b	¶97x0914
BJI	X	05 19 00 02.8	5.63N	125.37E	231	5.5b	
MOS	X	05 19 00 03.6	5.8N	125.4E	231	5.6b	
EIDC	X	05 19 00 04.3	5.6N	125.5E	231	5.1b	
HRVD	X	05 19 00 09.1±.6	5.58N±.06	126.05E±.06	205±3.5		

NEIC Mw5.8(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c25; Mantle waves: s9,c10; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}4.94±.35; $M_{\theta\theta}$−1.55±.58; $M_{\phi\phi}$−3.39±.61; $M_{r\theta}$−2.26±.44; $M_{r\phi}$3.51±.46; $M_{\theta\phi}$1.92±.63. Principal Axes: T 6.51,Plg69°,Azm237°; N −0.34,Plg0°,Azm328°; P −6.17,Plg21°,Azm58°. Best double couple: $M_0$6.3×10^{17}Nm, NP1:ϕ_S148°,δ24°,λ91°. NP2:ϕ_S327°,δ66°,λ90°.

(259) Mindanao

ISC	X	06 12 30 07.5±.44	9.76N±.021	125.80E±.030	124±4.1	5.9b	461 2-172
MOS	X	06 12 30 04.2	9.9N	125.7E	88	6.2b	¶97x1048
NEIC	X	06 12 30 05.8	9.79N	125.78E	106	5.9b	
BJI	X	06 12 30 06.4	9.89N	125.81E	111	5.9b	
EIDC	X	06 12 30 08.3	9.7N	125.8E	124	5.6b	
HRVD	X	06 12 30 11.4±.1	9.79N±.01	125.95E±.01	114±.5		

NEIC Mw6.5(GS), Me5.8(GS)

NEIC Mw 6.4 (HRV). Felt I=III RF in eastern Cebu. M_0=9.6×10^{18}Nm (PPT).

NEIC Radiated energy from the P−wave first−motion solution: 1.0±0.2×10^{13}Nm/13

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S0°,δ65°,λ100°. NP2:ϕ_S157°,δ27°,λ70°. Principal axes: T Plg68°,Azm290°; P Plg19°,Azm83°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s25, scale 10^{18}Nm; M_{rr}1.86; $M_{\theta\theta}$1.28; $M_{\phi\phi}$−3.13; $M_{r\theta}$1.06; $M_{r\phi}$3.49; $M_{\theta\phi}$3.17. Depth 109km; Principal axes: T 5.29,Plg42°,Azm319°; N 0.48,Plg41°,Azm178°; P −5.78,Plg21°,Azm69°. Best double couple: $M_0$5.5×10^{18}Nm; NP1:ϕ_S113°,δ44°,λ19°. NP2:ϕ_S9°,δ77°,λ132°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s62,c166; Mantle waves: s58,c124; Half duration: 4s2. Moment tensor: Scale 10^{18}Nm; M_{rr}1.67±.03; $M_{\theta\theta}$1.02±.03; $M_{\phi\phi}$−2.69±.03; $M_{r\theta}$0.43±.02; $M_{r\phi}$3.66±.02; $M_{\theta\phi}$2.97±.03. Principal Axes: T 4.81,Plg43°,Azm313°; N 0.85,Plg37°,Azm177°; P −5.66,Plg24°,Azm68°. Best double couple: $M_0$5.2×10^{18}Nm, NP1:ϕ_S110°,δ40°,λ18°. NP2:ϕ_S6°,δ78°,λ128°.

(266) Molucca Passage

ISC	X	08 07 16 18.6±.78	2.57N±.027	127.19E±.051	61±7.6	5.0b	112 3-139
EIDC	X	08 07 16 13.0	2.5N	127.1E	0	4.9b,5.4L	¶97x1366
BJI	X	08 07 16 15.0	2.68N	126.81E	15	5.1b,4.8s	
MOS	X	08 07 16 15.3	2.6N	127.4E	33	5.5b	
NEIC	X	08 07 16 15.9	2.55N	127.24E	33	5.2b	
HRVD	X	08 07 16 19.9±1.3	2.87N±.08	127.44E±.11	59±7.6		

NEIC Mw5.2(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c31; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.97±.43; $M_{\theta\theta}$−2.87±.63; $M_{\phi\phi}$−2.10±.73; $M_{r\theta}$−3.59±1.25; $M_{r\phi}$−2.55±.84; $M_{\theta\phi}$−3.17±.72. Principal Axes: T 6.58,Plg70°,Azm151°; N 0.67,Plg4°,Azm51°; P −7.25,Plg20°,Azm320°. Best double couple: $M_0$6.9×10^{16}Nm, NP1:ϕ_S43°,δ25°,λ82°. NP2:ϕ_S233°,δ65°,λ94°.

(243) Taiwan region

ISC	X	11 18 24 25.0±.19	25.02N±.019	122.52E±.023	154±1.9	5.2b	425 0-167
MOS	X	11 18 24 23.6	25.1N	122.6E	142	5.8b	¶97x1921
NEIC	X	11 18 24 23.8	25.03N	122.45E	143	5.3b	
BJI	X	11 18 24 24.8	24.99N	122.59E	155	5.8b	
TAP	X	11 18 24 25.7	24.98N	122.58E	146	6.1L	
HRVD	X	11 18 24 26.2±.3	24.86N±.03	122.57E±.05	147±1.6		
EIDC	X	11 18 24 26.7	25.1N	122.5E	156	4.9b	
JMA	X	11 18 24 26.9±.4	25.03N±.04	122.58E±.03	134	5.5	

NEIC Mw5.5(HRV). Felt I=V MM.

TAP Felt I=III J Ilan, Hwalien, II Neicheng, Chengkung, I Mucha, Taipei, Kuangyinshan, Tachien, Taichung, Pinlang

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c57; Mantle waves: s12,c14; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.21±.06; $M_{\theta\theta}$−0.30±.09; $M_{\phi\phi}$1.51±.10; $M_{r\theta}$−0.67±.06; $M_{r\phi}$−1.43±.07; $M_{\theta\phi}$−0.21±.09. Principal Axes: T 2.12,Plg24°,Azm92°; N −0.03,Plg19°,Azm191°; P −2.09,Plg59°,Azm315°. Best double couple: $M_0$2.1×10^{17}Nm, NP1:ϕ_S149°,δ27°,λ−135°. NP2:ϕ_S17°,δ71°,λ−70°.

(266) Molucca Passage

ISC	X	12 04 09 35.9±.62	1.77N±.025	126.42E±.037	62±6.0	5.2b	186 2-165
BJI	X	12 04 09 35.0	1.79N	126.40E	57	5.3b,4.3s	¶97x1984
MOS	X	12 04 09 35.7	1.8N	126.4E	57	5.5b	
NEIC	X	12 04 09 35.7	1.75N	126.38E	58	5.3b	
EIDC	X	12 04 09 36.4	1.7N	126.4E	50	4.9b	
HRVD	X	12 04 09 39.6±.6	1.99N±.06	126.63E±.11	74±5.9		

NEIC Mw5.2(HRV)

NEIC Felt I=II MM at Bitung and Manado, Indonesia.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c30; Mantle waves: s1,c1; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.30±.63; $M_{\theta\theta}$−5.56±.69; $M_{\phi\phi}$3.26±1.19; $M_{r\theta}$1.53±.67; $M_{r\phi}$1.94±.70; $M_{\theta\phi}$−3.70±.70. Principal Axes: T 5.26,Plg27°,Azm255°; N 2.11,Plg60°,Azm46°; P −7.37,Plg12°,Azm159°. Best double couple: $M_0$6.3×10^{16}Nm, NP1:ϕ_S294°,δ62°,λ169°. NP2:ϕ_S29°,δ81°,λ28°.

(171) South of Fiji

ISC	X	14 09 53 11±1.1	22.14S±.033	176.72W±.030	105±10	6.7b	970 9-166
EIDC	X	14 09 53 16.4	22.1S	176.5W	126	6.0b	¶97x2370
BJI	X	14 09 53 17.6	21.85S	176.67W	161	6.4b	
NEIC	X	14 09 53 18.1	22.10S	176.77W	167	6.7b	
MOS	X	14 09 53 20.5	21.5S	176.8W	170	6.8b	
HRVD	X	14 09 53 32.7±.1	21.94S±.01	176.15W±.01	166±1.2		

NEIC Mw7.8(GS), Me7.3(GS). Felt.

NEIC Radiated energy from the Harvard centroid solution: 1.8±0.2×10^{15}Nm/22

NEIC Mw 7.7 (HRV). Mb 7.0 (BRK). Felt at Wellington, New Zealand. M_0=5.3×10^{20}Nm (PPT). Complex earthquake, with two events occurring about 6 and 12 seconds after the onset, observed on broadband displacement seismograms.

NEIC Moment tensor solution: s43, scale 10^{20}Nm; M_{rr}−2.56; $M_{\theta\theta}$1.64; $M_{\phi\phi}$0.92; $M_{r\theta}$−0.15; $M_{r\phi}$−4.28; $M_{\theta\phi}$2.53. Depth 168km; Principal axes: T 5.20,Plg25°,Azm126°; N 0.49,Plg27°, Azm23°; P −5.69,Plg52°,Azm252°. Best double couple: $M_0$5.4×10^{20}Nm; NP1:ϕ_S258°,δ32°, λ−31°. NP2:ϕ_S15°,δ75°,λ−118°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c92; Mantle waves: s66,c183; Half duration: 17s9. Moment tensor: Scale 10^{20}Nm; M_{rr}−1.29±.02; $M_{\theta\theta}$0.74±.01; $M_{\phi\phi}$0.56±.01; $M_{r\theta}$−0.98±.01; $M_{r\phi}$−4.03±.02; $M_{\theta\phi}$1.30±.01. Principal Axes: T 4.47,Plg35°,Azm119°; N 0.03,Plg15°,Azm19°; P −4.50,Plg51°,Azm269°. Best double couple: $M_0$4.5×10^{20}Nm, NP1:ϕ_S257°,δ17°,λ−30°. NP2:ϕ_S16°,δ81°,λ−105°.

WEL Felt I=IV MM at Raoul Island

(135) Near coast of Central Chile

ISC	X	15 04 28 48.7±.53	30.87S±.033	71.17W±.050	64±5.6	5.4b	224 2-177
GUC	X	15 04 28 45.8	30.78S	71.67W	32		¶97x2565
BJI	X	15 04 28 46.7	29.89S	72.13W	48		
NEIC	X	15 04 28 47.0	30.81S	71.25W	48	5.5b	
EIDC	X	15 04 28 47.5	31.0S	71.5W	49	5.1b,4.9s	
MOS	X	15 04 28 50.3	31.0S	71.1W	79	5.9b	

NEIC Felt I=V MM at Hurtado; IV MM at Combarbala, Coquimbo and La Serena; II MM at Los Andes, Quillota, Quintero, San Felipe, Vina del Mar and Zapallar.

(135) Near coast of Central Chile

ISC	X	16 00 45 38.7±.52	31.07S±.034	71.09W±.059	78±5.4	5.1b	155 2-177
BJI	X	16 00 45 37.2	31.00S	71.10W	64		¶97x2759
NEIC	X	16 00 45 37.2	30.99S	71.13W	64	5.4b,4.5s	
EIDC	X	16 00 45 38.2	31.1S	71.4W	67	4.8b,4.6s	
GUC	X	16 00 45 39.4	31.25S	71.57W	30	5.1D	
MOS	X	16 00 45 39.5	31.1S	71.1W	82	5.5b	

NEIC Felt I=V MM at Los Vilos; III MM at La Ligua, Los Andes, Papudo, Quillota, San Felipe and Valparaiso; II MM at Santiago.

(353) Southern Iran

ISC	X	20 06 09 10.9±.92	28.53N±.035	57.26E±.022	93±8.7	5.5b	479 7-136
MOS	X	20 06 09 03.1	28.3N	57.2E	33	5.9b,4.7s	¶97x3450
NEIC	X	20 06 09 04.2	28.50N	57.28E	33	5.6b,5.0s	
BJI	X	20 06 09 05.3	28.81N	57.25E	37	5.4b,5.0s	
HRVD	X	20 06 09 09.5±.4	27.98N±.05	57.45E±.05	33		
EIDC	X	20 06 09 10.8	28.5N	57.3E	77	5.0b	

NEIC Mw5.4(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c43; Mantle waves: s3,c3; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.94±.04; $M_{\theta\theta}$−0.87±.07; $M_{\phi\phi}$−0.08±.08; $M_{r\theta}$1.17±.14; $M_{r\phi}$0.42±.16; $M_{\theta\phi}$0.13±.05. Principal Axes: T 1.63,Plg61°,Azm330°; N −0.19,Plg12°,Azm81°; P −1.44,Plg27°,Azm177°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S293°,δ21°,λ124°. NP2:ϕ_S77°,δ72°,λ78°.

(221) Kuril Islands

ISC	X	22 09 55 48.8±.27	44.68N±.023	146.27E±.030	163±2.5	5.5b	647 1-154
BJI	X	22 09 55 47.7	44.89N	146.18E	153	6.2b	¶97x3790
NEIC	X	22 09 55 47.7	44.72N	146.21E	154	5.5b	
SKHL	X	22 09 55 48.0	44.5N±.10	146.4E±.10	157±10		
EIDC	X	22 09 55 48.4	44.8N	145.9E	148	5.0b,4.6s	
JMA	X	22 09 55 49.4±.2	44.49N±.02	146.46E±.02	158±2	5.7	
MOS	X	22 09 55 49.5	45.1N	146.2E	154	5.8b	
HRVD	X	22 09 55 52.5±.3	44.83N±.03	146.40E±.04	161±.9		

NEIC Mw5.6(GS), Mw5.6(HRV)

NEIC Felt I=II J1 in the Kushiro area, Hokkaido. Felt in many parts of southeastern Hokkaido and northern Honshu. Also felt II MSK at Yuzhno-Kurilsk, Kunashir.

NEIC Moment tensor solution: s11, scale 10^{17}Nm; M_{rr}−1.06; $M_{\theta\theta}$1.62; $M_{\phi\phi}$−0.56; $M_{r\theta}$−0.11; $M_{r\phi}$−1.74; $M_{\theta\phi}$0.95. Depth 149km; Principal axes: T 2.18,Plg16°,Azm151°; N 0.45,Plg39°, Azm47°; P −2.64,Plg47°,Azm259°. Best double couple: $M_0$2.4×10^{17}Nm; NP1:ϕ_S282°,δ44°, λ−27°. NP2:ϕ_S32°,δ71°,λ−131°.

MOS Felt I=I−II MSK at Yuzhno−Kurilsk.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c68; Mantle waves: s17,c17; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.03±.06; $M_{\theta\theta}$2.26±.08; $M_{\phi\phi}$−1.22±.09; $M_{r\theta}$−0.14±.06; $M_{r\phi}$−1.49±.06; $M_{\theta\phi}$0.91±.07. Principal Axes: T 2.56,Plg9°,Azm163°; N 0.13,Plg47°,Azm63°; P −2.69,Plg41°,Azm261°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S293°,δ55°,λ−26°. NP2:ϕ_S39°,δ69°,λ−142°.

(285) Sumbawa region

ISC	X	23 01 16 01.5±.34	8.64S±.029	117.01E±.028	160±3.4	5.3b	319 1-154
BJI	X	23 01 16 01.8	8.70S	117.00E	160	5.4b	¶97x3905
NEIC	X	23 01 16 01.8	8.67S	117.02E	160	5.5b	
MOS	X	23 01 16 02.1	8.7S	116.9E	171	5.7b	
EIDC	X	23 01 16 02.8	8.7S	117.0E	154	5.0b	
HRVD	X	23 01 16 04.3±.2	8.77S±.02	116.95E±.03	154±.9		

NEIC Mw5.7(HRV)

NEIC Felt I=III MM at Denpasar, Bali; Mataram, Lombok; and Waingapu, Sumba. Also felt II MM at Ruteng, Flores.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c81; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.82±.07; $M_{\theta\theta}$1.00±.08; $M_{\phi\phi}$−0.18±.10; $M_{r\theta}$3.49±.06; $M_{r\phi}$−0.22±.08; $M_{\theta\phi}$0.63±.09. Principal Axes: T 3.73,Plg37°,Azm353°; N −0.12, Plg11°,Azm91°; P −3.61,Plg51°,Azm195°. Best double couple: $M_0$3.7×10^{17}Nm, NP1:ϕ_S35°, δ13°,λ−147°. NP2:ϕ_S273°,δ83°,λ−79°.

(111) Northern Peru

ISC	X	28 06 15 19.2±.37	4.35S±.023	76.68W±.024	128±3.1	6.5b	888 3-178
BJI	X	28 06 15 17.1	4.24S	76.73W	107		¶97x4719
NEIC	X	28 06 15 17.3	4.37S	76.68W	112	6.6b,6.3s	
MOS	X	28 06 15 17.4	4.3S	76.6W	111	6.8b	
EIDC	X	28 06 15 22.1	4.3S	76.6W	135	5.8b	
HRVD	X	28 06 15 28.4±.1	4.44S±.01	76.55W±.01	119±.2		
IGQ	X	28 06 15 32.4	3.6S	77.4W	80	6.5b	

NEIC Mw7.2(HRV), Me6.7(GS). Damage.

NEIC Radiated energy from the P−wave first−motion solution: 2.9±0.3×10^{14}Nm/15

NEIC Mw 7.1 (GS). Mb 6.8 (BRK). Slight damage at Chachapoyas. M_0=6.0×10^{19}Nm (PPT).

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S355°,δ50°,λ−90°. NP2:ϕ_S175°,δ40°,λ−90°. Principal axes: T Plg5°,Azm85°; P Plg62°,Azm337°. Two events about 6.5 seconds apart. Depth from broadband displacement seismograms based on first event.

NEIC Moment tensor solution: s47, scale 10^{19}Nm; M_{rr}−3.81; $M_{\theta\theta}$−0.52; $M_{\phi\phi}$4.32; $M_{r\theta}$−0.87; $M_{r\phi}$1.29; $M_{\theta\phi}$−2.76. Depth 115km; Principal axes: T 5.82,Plg9°,Azm245°; N −1.74,Plg6°, Azm154°; P −4.08,Plg79°,Azm31°. Best double couple: $M_0$5.0×10^{19}Nm; NP1:ϕ_S343°,δ36°, λ−80°. NP2:ϕ_S150°,δ54°,λ−98°.

EIDC Multiple, same az

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c153; Mantle waves: s55,c146; Half duration: 9s8. Moment tensor: Scale 10^{19}Nm; M_{rr}−6.82±.03; $M_{\theta\theta}$0.60±.02; $M_{\phi\phi}$6.21±.03; $M_{r\theta}$−0.71±.02; $M_{r\phi}$1.52±.02; $M_{\theta\phi}$−2.64±.02. Principal Axes: T 7.46,Plg7°,Azm248°; N −0.44,Plg1°,Azm158°; P −7.01,Plg83°,Azm61°. Best double couple: $M_0$7.2×10^{19}Nm, NP1:ϕ_S339°,δ38°,λ−89°. NP2:ϕ_S158°,δ52°,λ−91°.

(276) Sunda Strait

ISC	X	29 04 56 00.7±.79	6.30S±.037	104.15E±.042	64±7.0	5.3b	264 1-178
BJI	X	29 04 55 58.0	6.24S	104.00E	38	5.5b,5.6s	¶97x4855
NEIC	X	29 04 55 58.7	6.38S	104.01E	45	5.3b,5.5s	
MOS	X	29 04 55 59.7	6.1S	104.0E	43	5.8b,5.2s	
EIDC	X	29 04 56 00.0	6.3S	103.9E	43	5.0b	
HRVD	X	29 04 56 02.4±.2	6.74S±.03	104.01E±.03	30±1.9		

NEIC Mw5.6(HRV), Mw5.5(GS)

NEIC Felt I=II MM in southern Sumatera, Indonesia.

NEIC Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}1.51; $M_{\theta\theta}$−1.51; $M_{\phi\phi}$0.00; $M_{r\theta}$1.43; $M_{r\phi}$−0.27; $M_{\theta\phi}$−0.35. Depth 31km; Principal axes: T 2.15,Plg66°,Azm25°; N −0.05,Plg12°, Azm268°; P −2.11,Plg21°,Azm174°. Best double couple: $M_0$2.1×10^{17}Nm; NP1:ϕ_S243°,δ26°, λ63°. NP2:ϕ_S93°,δ67°,λ103°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c65; Mantle waves: s5,c6; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}1.94±.05; $M_{\theta\theta}$−1.82±.07; $M_{\phi\phi}$−0.12±.08; $M_{r\theta}$2.00±.19; $M_{r\phi}$−0.66±.13; $M_{\theta\phi}$1.26±.06. Principal Axes: T 2.81,Plg67°,Azm6°; N 0.51,Plg7°,Azm113°; P −3.31,Plg22°,Azm206°. Best double couple: $M_0$3.1×10^{17}Nm, NP1:ϕ_S309°,δ24°,λ108°. NP2:ϕ_S110°,δ67°,λ82°.

(186) Vanuatu (New Hebrides)

ISC	X	31 12 29 53±1.1	13.15S±.033	166.89E±.035	207±10	5.2b	431 5-172
NEIC	X	31 12 29 49.8	13.12S	166.92E	183	5.4b	¶97x5180
BJI	X	31 12 29 50.1	13.02S	166.97E	184	5.5b	
MOS	X	31 12 29 51.4	13.0S	166.9E	190	5.6b	
EIDC	X	31 12 29 51.5	13.1S	167.0E	183	5.2b,5.0s	
HRVD	X	31 12 29 56.0±.3	13.14S±.02	166.71E±.02	186±1.0		

NEIC Mw5.9(HRV).

Agency		Origin Time	φ	λ	h	Mag	*n*	Δ-Rng
		mo d h m s	°	°	km			°

NEIC M0=1.3×10^{18}Nm (PPT).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c39; Mantle waves: s12,c18; Half duration: 2s2. Moment tensor: Scale 10^{17}Nm; Mrr6.62±.17; Mθθ0.94±.21; Mϕϕ−7.56±.22; Mrθ−2.90±.16; Mrϕ−0.05±.17; Mθϕ2.84±.25. Principal Axes: T 7.93,Plg65°,Azm169°; N 0.54,Plg24°,Azm341°; P −8.47,Plg3°,Azm72°. Best double couple: M0 8.2×10^{17}Nm, NP1:φS186°,δ47°,λ124°. NP2:φS321°,δ53°,λ59°.

(280) Banda Sea

ISC	**XI**	**03 19 17 59.4**±.46	**6.72S**±.026	**129.03E**±.027	**221**±4.9	**5.6b**	**330**	**4-158**
BJI	XI	03 19 17 58.5	6.69S	129.05E	212	5.4b		**¶97xi0506**
NEIC	XI	03 19 17 58.9	6.74S	129.02E	216	5.7b		
DJA	XI	03 19 17 59.0±.32	7.2S	129.1E	248±3.6	6.0b,5.2D		
EIDC	XI	03 19 18 00.5	6.7S	129.1E	214	5.5b		
MOS	XI	03 19 18 01.6	6.6S	128.9E	232	5.8b		
HRVD	XI	03 19 18 02.2±.2	6.72S±.02	129.11E±.02	221±1.2			

NEIC Mw6.1(GS), Mw6.1(HRV).

NEIC Moment tensor solution: s14, scale 10^{18}Nm; Mrr0.87; Mθθ−1.57; Mϕϕ0.70; Mrθ−0.58; Mrϕ0.54; Mθϕ0.66. Depth 206km; Principal axes: T 1.33,Plg50°,Azm269°; N 0.60,Plg36°, Azm118°; P −1.93,Plg14°,Azm17°. Best double couple: M0 1.6×10^{18}Nm; NP1:φS69°,δ44°, λ32°. NP2:φS315°,δ68°,λ130°.

DJA Error ellipse is semi−major=18.9km semi−minor=3.9km azimuth=169

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c52; Mantle waves: s32,c46; Half duration: 2s5. Moment tensor: Scale 10^{18}Nm; Mrr1.07±.03; Mθθ−1.48±.03; Mϕϕ0.41±.04; Mrθ−0.58±.02; Mrϕ0.54±.03; Mθϕ0.45±.04. Principal Axes: T 1.40,Plg63°,Azm256°; N 0.35,Plg22°,Azm111°; P −1.75,Plg14°,Azm15°. Best double couple: M0 1.6×10^{18}Nm, NP1:φS78°,δ37°,λ51°. NP2:φS303°,δ62°,λ115°.

(135) Near coast of Central Chile

ISC	**XI**	**03 20 12 53.9**±.53	**30.83S**±.032	**71.24W**±.050	**63**±5.5	**5.5b**	**209**	**2-177**
MOS	XI	03 20 12 50.4	30.9S	71.4W	33	5.7b		**¶97xi0514**
BJI	XI	03 20 12 52.0	30.80S	71.30W	45			
NEIC	XI	03 20 12 52.0	30.77S	71.34W	45	5.6b		
EIDC	XI	03 20 12 52.5	31.0S	71.3W	43	5.3b,5.1s		
GUC	XI	03 20 12 53.5	30.88S	71.76W	48	5.2D		

NEIC Felt I=IV MM at Choapa and Ovalle; III MM at La Serena and Papudo; II MM at Valparaiso. Also felt III MM at Mendoza, Argentina.

(173) Tonga

ISC	**XI**	**03 21 37 15**±2.9	**19.98S**±.054	**175.34W**±.044	**151**±27	**5.2b**	**380**	**7-166**
EIDC	XI	03 21 37 09.1	20.0S	175.2W	86	4.9b,4.8s		**¶97xi0524**
NEIC	XI	03 21 37 15.1	19.96S	175.36W	152	5.2b		
BJI	XI	03 21 37 16.2	19.82S	175.13W	159	5.6b		
MOS	XI	03 21 37 18.3	20.0S	175.5W	174	5.5b		
HRVD	XI	03 21 37 19.8±.3	19.92S±.03	174.71W±.03	163±1.0			

NEIC Mw5.9(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c78; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; Mrr−0.88±.20; Mθθ−0.19±.25; Mϕϕ1.07±.26; Mrθ5.39±.19; Mrϕ5.57±.20; Mθϕ0.82±.29. Principal Axes: T 8.05,Plg41°,Azm310°; N −0.41, Plg4°,Azm44°; P −7.65,Plg49°,Azm139°. Best double couple: M0 7.8×10^{17}Nm, NP1:φS356°, δ6°,λ−138°. NP2:φS224°,δ86°,λ−86°.

(73) El Salvador

ISC	**XI**	**09 22 56 43.9**±.27	**13.89N**±.032	**88.80W**±.030	**183**±2.9	**5.6b**	**556**	**0-160**
BJI	XI	09 22 56 42.7	13.80N	88.80W	176			**¶97xi1521**
NEIC	XI	09 22 56 42.7	13.85N	88.81W	176	5.6b		
MOS	XI	09 22 56 43.2	13.6N	89.0W	193	5.8b		
EIDC	XI	09 22 56 46.8	13.9N	88.6W	191	5.1b		
HRVD	XI	09 22 56 51.3±.1	13.88N±.01	89.30W±.01	178±.4			

NEIC Mw6.5(GS), Me5.7(GS)

NEIC Mw 6.4 (HRV). Mb 6.1 (BRK). MD 5.0 (SSS). Felt I=IV MM at San Salvador.

NEIC Radiated energy from the P−wave first−motion solution: 6.9±2.0×10^{12}Nm/11

NEIC Broadband fault plane solution: P waves. NP1:φS315°,δ30°,λ90°. NP2:φS135°,δ60°,λ90°. Principal axes: T Plg75°,Azm45°; P Plg15°,Azm225°. Depth from broadband displacement seismograms.

NEIC Moment tensor solution: s40, scale 10^{18}Nm; Mrr3.31; Mθθ−2.43; Mϕϕ−0.89; Mrθ2.93; Mrϕ−2.55; Mθϕ2.35. Depth 184km; Principal axes: T 4.98,Plg67°,Azm47°; N 0.80,Plg4°, Azm309°; P −5.78,Plg23°,Azm217°. Best double couple: M0 5.4×10^{18}Nm; NP1:φS300°,δ22°, λ81°. NP2:φS130°,δ68°,λ94°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c101; Mantle waves: s32,c47; Half duration: 3s8. Moment tensor: Scale 10^{18}Nm; Mrr2.07±.03; Mθθ−1.09±.05; Mϕϕ−0.98±.05; Mrθ2.38±.03; Mrϕ−2.38±.02; Mθϕ0.74±.05. Principal Axes: T 4.03,Plg60°,Azm46°; N −0.30,Plg1°,Azm315°; P −3.73,Plg30°,Azm224°. Best double couple: M0 3.9×10^{18}Nm, NP1:φS312°,δ15°,λ87°. NP2:φS135°,δ75°,λ91°.

(211) South of Honshū

ISC	**XI**	**10 23 06 43.4**±.44	**31.15N**±.022	**140.48E**±.025	**79**±3.6	**5.7b**	**641**	**2-170**
MOS	XI	10 23 06 39.4	31.3N	140.5E	39	6.4b,5.7s		**¶97xi1690**
BJI	XI	10 23 06 41.0	31.28N	140.98E	102	5.5b		
JMA	XI	10 23 06 42.6±.2	31.25N±.02	141.00E±.03	78	6.0		
EIDC	XI	10 23 06 43.8	31.2N	140.5E	71	5.3b,5.5s		
NEIC	XI	10 23 06 44.3	31.19N	140.49E	86	5.8b		
HRVD	XI	10 23 06 45.8±.1	31.27N±.01	140.63E±.01	63±1.3			

NEIC Mw6.2(GS), Me5.6(GS).

NEIC Radiated energy from the P−wave first−motion solution: 6.5±1.6×10^{12}Nm/13

NEIC Mw 6.2 (HRV). Felt I=II J1 in southern Chiba Prefecture and on Hachijo-jima. M0=4.0×10^{18}Nm (PPT).

NEIC Broadband fault plane solution: P waves. NP1:φS7°,δ88°,λ−60°. NP2:φS100°,δ30°,λ−176°. Principal axes: T Plg36°,Azm71°; P Plg40°,Azm304°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s36, scale 10^{18}Nm; Mrr0.35; Mθθ−0.07; Mϕϕ−0.28; Mrθ−0.25; Mrϕ−1.83; Mθϕ0.03. Depth 63km; Principal axes: T 1.91,Plg50°,Azm99°; N −0.08,Plg2°, Azm7°; P −1.83,Plg40°,Azm276°. Best double couple: M0 1.9×10^{18}Nm; NP1:φS348°,δ5°, λ71°. NP2:φS188°,δ85°,λ92°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c93; Mantle waves: s26,c33; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; Mrr0.32±.02; Mθθ−0.04±.02; Mϕϕ−0.28±.02; Mrθ−0.09±.02; Mrϕ−1.87±.03; Mθϕ−0.41±.01. Principal Axes: T 1.94,Plg49°,Azm81°; N 0.01,Plg12°,Azm185°; P −1.95,Plg39°,Azm284°. Best double couple: M0 1.9×10^{18}Nm, NP1:φS71°,δ13°,λ157°. NP2:φS184°,δ85°,λ78°.

(211) South of Honshū

ISC	**XI**	**11 03 43 05.5**±.75	**31.09N**±.050	**140.49E**±.067	**77**±6.0	**4.6b**	**107**	**2-153**
MOS	XI	11 03 43 01.6	31.1N	140.8E	55	5.5b		**¶97xi1723**
JMA	XI	11 03 43 04.7±.3	31.32N±.03	141.23E±.07	61	4.6		
NEIC	XI	11 03 43 06.0	31.13N	140.45E	82	5.0b		
EIDC	XI	11 03 43 07.5	31.2N	140.4E	80	4.2b,3.7s		
BJI	XI	11 03 43 08.0	31.10N	140.40E	82	4.3b,4.4s		

(73) El Salvador

ISC	**XI**	**12 21 54 13.8**±.38	**13.55N**±.054	**89.55W**±.043	**89**±2.9	**4.7b**	**167**	**0-163**
EIDC	XI	12 21 54 04.9	13.6N	89.0W	0	4.7b		**¶97xi2038**
BJI	XI	12 21 54 14.6	13.70N	89.40W	89	5.8s		
NEIC	XI	12 21 54 14.6	13.70N	89.36W	89	4.8b		
MEX	XI	12 21 54 33.2	13.9N	91.2W	16	5.2D		

NEIC MD4.6(SSS)

NEIC Felt I=IV MM at San Salvador.

(193) Solomon Islands

ISC	**XI**	**13 05 33 58**±1.3	**6.38S**±.037	**154.78E**±.033	**62**±12	**5.6b**	**329**	**3-160**
BJI	XI	13 05 33 48.5	6.74S	155.67E	33	5.6b,4.9s		**¶97xi2082**
NEIC	XI	13 05 33 54.0	6.34S	154.82E	33	5.6b,5.3s		
MOS	XI	13 05 33 54.8	6.3S	154.9E	33	5.8b,4.9s		
EIDC	XI	13 05 33 55.9	6.4S	155.0E	37	5.3b,4.3L		
HRVD	XI	13 05 33 58.7±.2	6.65S±.03	154.89E±.03	55			

NEIC Mw5.5(GS), Mw5.5(HRV).

NEIC Moment tensor solution: s10, scale 10^{17}Nm; Mrr1.60; Mθθ−0.18; Mϕϕ−1.42; Mrθ−0.14; Mrϕ−0.22; Mθϕ0.71. Depth 41km; Principal axes: T 1.64,Plg81°,Azm140°; N 0.11,Plg8°, Azm336°; P −1.75,Plg2°,Azm246°. Best double couple: M0 1.7×10^{17}Nm; NP1:φS327°,δ43°, λ78°. NP2:φS164°,δ48°,λ101°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c51; Mantle waves: s3,c4; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; Mrr1.92±.05; Mθθ−0.60±.08; Mϕϕ−1.31±.10; Mrθ0.31±.09; Mrϕ−0.22±.10; Mθϕ0.75±.06. Principal Axes: T 1.96,Plg83°,Azm22°; N −0.14,Plg4°,Azm147°; P −1.82,Plg5°,Azm237°. Best double couple: M0 1.9×10^{17}Nm, NP1:φS332°,δ40°,λ96°. NP2:φS144°,δ51°,λ85°.

(193) Solomon Islands

ISC	**XI**	**14 07 22 09**±2.0	**6.83S**±.047	**155.28E**±.066	**78**±17	**5.0b**	**147**	**5-161**
EIDC	XI	14 07 22 03.8	6.8S	155.4E	20	4.8b,4.3s		**¶97xi2257**
NEIC	XI	14 07 22 04.3	6.78S	155.34E	33	5.2b,4.7s		
MOS	XI	14 07 22 04.5	6.8S	155.4E	33	5.6b		
BJI	XI	14 07 22 04.9	6.62S	155.43E	37	5.2b,4.8s		
HRVD	XI	14 07 22 07.5±.1	7.07S±.01	155.19E±.01	36±1.3			

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s12,c17; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; Mrr3.34±1.30; Mθθ−5.44±.99; Mϕϕ2.11±1.83; Mrθ−6.01±3.07; Mrϕ−1.11±2.05; Mθϕ4.74±1.31. Principal Axes: T 8.25,Plg45°,Azm134°; N 1.49,Plg37°,Azm272°; P −9.73,Plg22°,Azm20°. Best double couple: M0 9.0×10^{16}Nm, NP1: φS155°,δ40°,λ158°. NP2:φS262°,δ76°,λ52°.

(228) Near east coast of Honshū

ISC	**XI**	**15 04 42 35.1**±.51	**36.86N**±.037	**141.33E**±.052	**72**±4.0	**4.8b**	**158**	**0-147**
BJI	XI	15 04 42 31.3	36.86N	141.34E	46	5.0b,4.0s		**¶97xi2418**
JMA	XI	15 04 42 34.1±.1	36.87N±.00	141.52E±.02	64±3	4.9		
EIDC	XI	15 04 42 34.1	36.8N	141.5E	51	4.3b,4.1s		
MOS	XI	15 04 42 34.8	36.9N	141.4E	72	5.5b		
NEIC	XI	15 04 42 35.4	36.86N	141.36E	75	4.9b		

JMA Nodal plane solution: N176, Score 94%. NP1:φS34°,δ41°,λ143°. NP2:φS155°,δ66°,λ56°. Principle axes: T Plg55°,Azm21°; N Plg31°,Azm170°; P Plg15°,Azm269°.

NEIC Felt I=V MM.

NEIC Felt I=III J1 in eastern Fukushima and II J1 in much of Ibaraki and Tochigi Prefectures. Also felt II J in southeastern Iwate and southern Miyagi Prefectures.

(224) Hokkaido region

ISC	**XI**	**15 07 05 16.3**±.25	**43.79N**±.023	**145.03E**±.028	**158**±2.3	**5.8b**	**687**	**0-157**
SKHL	XI	15 07 05 16.0	43.8N±.12	145.1E±.20	158±5			**¶97xi2436**
BJI	XI	15 07 05 16.3	44.06N	144.94E	160	5.8b		
MOS	XI	15 07 05 16.4	44.1N	145.0E	148	6.3b		
NEIC	XI	15 07 05 16.6	43.81N	145.02E	161	5.8b		
EIDC	XI	15 07 05 17.1	43.8N	145.0E	156	5.7b		
JMA	XI	15 07 05 17.4±.2	43.65N±.01	145.09E±.01	153±2	6.1		
HRVD	XI	15 07 05 18.8±.1	43.82N±.01	145.07E±.02	157±.5			

SKHL Felt I=IV MSK at Malokurilsk; I=II−III at Juzhno−Kurilsk

NEIC Mw6.1(GS), Me6.0(GS). Felt I=VI MM.

NEIC Radiated energy from the P−wave first−motion solution: 2.1±0.5×10^{13}Nm/12

NEIC Broadband fault plane solution: P waves. NP1:φS80°,δ80°,λ80°. NP2:φS305°,δ14°,λ135°. Principal axes: T Plg54°,Azm338°; P Plg34°,Azm179°. Depth from broadband displacement seismograms.

NEIC Mw 6.1 (HRV). Felt I=IV J in the Kushiro area. Felt II J in much of southeastern Hokkaido and in parts of Aomori, Iwate and Miyagi Prefectures, Honshu. Also felt II MM at Yuzhno-Kurilsk, Kunashir.

NEIC Moment tensor solution: s37, scale 10^{18}Nm; Mrr0.27; Mθθ−0.07; Mϕϕ−0.20; Mrθ1.30; Mrϕ0.52; Mθϕ0.30. Depth 150km; Principal axes: T 1.60,Plg46°,Azm333°; N −0.38,Plg8°, Azm72°; P −1.22,Plg43°,Azm170°. Best double couple: M0 1.4×10^{18}Nm; NP1:φS329°,δ9°, λ167°. NP2:φS72°,δ88°,λ81°.

JMA Nodal plane solution: N171, Score 94%. NP1:φS183°,δ21°,λ20°. NP2:φS74°,δ83°,λ111°. Principle axes: T Plg48°,Azm5°; N Plg19°,Azm251°; P Plg35°,Azm147°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c83; Mantle waves: s31,c55; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; Mrr0.11±.01; Mθθ0.08±.02; Mϕϕ−0.19±.02; Mrθ1.36±.01; Mrϕ0.46±.01; Mθϕ−0.10±.02. Principal Axes: T 1.50,Plg46°,Azm347°; N −0.10,Plg7°,Azm250°; P −1.40,Plg43°,Azm154°. Best double couple: M0 1.5×10^{18}Nm, NP1:φS171°,δ7°,λ11°. NP2:φS70°,δ89°,λ97°.

(186) Vanuatu (New Hebrides)

ISC	**XI**	**15 18 59 25**±1.0	**15.13S**±.034	**167.34E**±.028	**129**±9.4	**6.1b**	**760**	**3-171**
BJI	XI	15 18 59 23.4	14.59S	167.68E	115	6.3b		**¶97xi2519**
NEIC	XI	15 18 59 24.3	15.15S	167.38E	123	6.4b		
EIDC	XI	15 18 59 26.5	15.1S	167.5E	132	5.6b		
MOS	XI	15 18 59 26.9	15.1S	167.3E	147	6.7b		
HRVD	XI	15 18 59 32.8±.1	14.92S±.01	167.21E±.01	122±.3			

NEIC Mw7.0(GS), Me6.7(GS).

NEIC Mw 7.0 (HRV). Mb 6.8 (BRK).

NEIC Radiated energy from the P−wave first−motion solution: 2.8±0.5×10^{14}Nm/21

NEIC Broadband fault plane solution: P waves. NP1:φS180°,δ50°,λ105°. NP2:φS337°,δ42°,λ73°. Principal axes: T Plg78°,Azm151°; P Plg4°,Azm259°. Complex earthquake with at least one larger event occurring about 3 seconds after the onset. Depth and focal mechanism based on second event.

NEIC Moment tensor solution: s38, scale 10^{19}Nm; Mrr3.90; Mθθ0.15; Mϕϕ−4.04; Mrθ−0.65; Mrϕ−0.41; Mθϕ−0.23. Depth 116km; Principal axes: T 4.02,Plg80°,Azm164°; N 0.06,Plg9°, Azm4°; P −4.08,Plg3°,Azm274°. Best double couple: M0 4.1×10^{19}Nm; NP1:φS354°,δ43°, λ76°. NP2:φS192°,δ49°,λ102°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c122; Mantle waves: s45,c120; Half duration: 7s7. Moment tensor: Scale 10^{19}Nm; Mrr3.92±.02; Mθθ0.21±.01; Mϕϕ−4.13±.01; Mrθ−0.74±.01; Mrϕ−0.45±.01; Mθϕ−0.57±.01. Principal Axes: T 4.08,Plg79°,Azm167°; N 0.16,Plg10°,Azm9°; P −4.24,Plg4°,Azm278°. Best double couple: M0 4.2×10^{19}Nm, NP1:φS357°,δ42°,λ75°. NP2:φS197°,δ50°,λ103°.

(178) Kermadec Islands

ISC	**XI**	**27 07 21 02**±1.5	**29.69S**±.063	**178.93W**±.051	**129**±14	**5.1b**	**296**	**12-169**
BJI	XI	27 07 21 12.9	29.28S	178.30W	229	5.2b		**¶97xi4824**
NEIC	XI	27 07 21 13.2	29.76S	179.01W	229	5.1b		
MOS	XI	27 07 21 14.4	29.7S	178.6W	237	5.6b		
EIDC	XI	27 07 21 15.3	29.6S	178.9W	234	4.7b		
HRVD	XI	27 07 21 15.8±.6	29.60S±.07	178.81W±.05	230±3.4			

NEIC Mw5.4(GS), Mw5.4(HRV).

NEIC Moment tensor solution: s3, scale 10^{17}Nm; Mrr−1.15; Mθθ0.23; Mϕϕ0.92; Mrθ−0.56; Mrϕ−0.09; Mθϕ0.33. Depth 220km; Principal axes: T 1.09,Plg8°,Azm116°; N 0.26,Plg18°, Azm209°; P −1.35,Plg70°,Azm2°. Best double couple: M0 1.2×10^{17}Nm; NP1:φS186°,δ40°, λ−118°. NP2:φS41°,δ56°,λ−68°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c30; Mantle waves: s6,c6; Half duration: 1s0. Moment tensor: Scale 10^{17}Nm; Mrr−0.96±.06; Mθθ−0.07±.12; Mϕϕ1.03±.09; Mrθ−0.69±.08; Mrϕ0.06±.10; Mθϕ−0.08±.10. Principal Axes: T 1.04,Plg4°,Azm263°; N 0.29,Plg28°,Azm171°; P −1.33,Plg61°,Azm1°. Best double couple: M0 1.2×10^{17}Nm, NP1:φS20°,δ48°,λ−50°. NP2:φS149°,δ55°,λ−125°.

(74) Near coast of Nicaragua

ISC	**XI**	**29 14 19 02**±1.1	**11.30N**±.052	**86.11W**±.063	**98**±12	**4.9b**	**176**	**6-151**	
BJI	XI	29 14 18 55.6	11.20N	86.40W	33	6.0s			**¶97xi5278**
NEIC	XI	29 14 18 55.6	11.22N	86.37W	33	5.1b,5.3s			
MOS	XI	29 14 18 56.4	11.3N	86.6W	33	5.2b,5.5s			
EIDC	XI	29 14 18 56.9	11.6N	85.7W	29	4.6b,5.3s			
HRVD	XI	29 14 19 00.1±.2	10.66N±.03	86.62W±.03	44±2.8				

NEIC Mw5.7(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c57; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}1.12±.07; $M_{\theta\theta}$−0.28±.10; $M_{\phi\phi}$−0.83±.12; $M_{r\theta}$2.69±.15; $M_{r\phi}$−2.97±.17; $M_{\theta\phi}$1.40±.09. Principal Axes: T 3.86,Plg55°,Azm45°; N 0.86, Plg2°,Azm138°; P −4.72,Plg34°,Azm229°. Best double couple: M_O4.3×10^{17}Nm, NP1: ϕ_S328°,δ11°,λ100°. NP2:ϕ_S138°,δ79°,λ88°.

(71) Near coast of Guatemala

ISC	**XII**	**04 14 56 40.3**±.44	**13.58N**±.043	**90.75W**±.031	**69**±3.9	**5.1b**	**279**	**1-161**	
EIDC	XII	04 14 56 41.1±4.29	13.7N	90.5W	60±39.3	4.8b,5.4s			**¶97xii0634**
BJI	XII	04 14 56 41.7	13.60N	90.70W	80	5.9s			
NEIC	XII	04 14 56 41.7	13.64N	90.66W	81	5.2b,5.4s			
HRVD	XII	04 14 56 42.7±.2	13.56N±.02	91.25W±.02	36±1.1				
MEX	XII	04 14 56 49.1	13.9N	91.5W	12	5.1D			

EIDC Error ellipse is semi−major=22.4km semi−minor=11.3km azimuth=64

NEIC Mw6.0(HRV), M_D5.4(SSS)

NEIC Felt I=IV MM at San Salvador, El Salvador.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c78; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}7.56±.13; $M_{\theta\theta}$−6.32±.17; $M_{\phi\phi}$−1.24±.22; $M_{r\theta}$4.82±.31; $M_{r\phi}$−3.50±.30; $M_{\theta\phi}$3.73±.15. Principal Axes: T 9.6,Plg71°,Azm44°; N 0.7, Plg4°,Azm301°; P −10.3,Plg18°,Azm209°. Best double couple: M_O9.9×10^{17}Nm, NP1: ϕ_S292°,δ27°,λ80°. NP2:ϕ_S123°,δ64°,λ95°.

(71) Near coast of Guatemala

ISC	**XII**	**04 22 14 24.0**±.56	**13.51N**±.058	**90.80W**±.039	**69**±4.8	**4.9b**	**207**	**1-151**	
MEX	XII	04 22 14 23.5	13.8N	90.8W	45	5.2D			**¶97xii0701**
HRVD	XII	04 22 14 24.7±.3	13.49N±.04	91.21W±.06	48±2.6				
NEIC	XII	04 22 14 26.2	13.64N	90.62W	87	5.0b,4.7s			
EIDC	XII	04 22 14 26.6±.41	13.7N	90.6W	72±2.5	4.6b			
BJI	XII	04 22 14 28.0	13.60N	90.60W	86	6.5s			

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c36; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.14±.06; $M_{\theta\theta}$−1.32±.08; $M_{\phi\phi}$0.18±.11; $M_{r\theta}$0.75±.10; $M_{r\phi}$−0.65±.10; $M_{\theta\phi}$0.81±.06. Principal Axes: T 1.51,Plg67°,Azm69°; N 0.46, Plg15°,Azm300°; P −1.97,Plg17°,Azm206°. Best double couple: M_O1.7×10^{17}Nm, NP1: ϕ_S274°,δ31°,λ60°. NP2:ϕ_S128°,δ64°,λ106°.

NEIC Mw5.5(HRV), M_D5.1(SSS)

NEIC Felt I=III MM at San Salvador, El Salvador.

EIDC Error ellipse is semi−major=18.9km semi−minor=9.6km azimuth=58

(266) Molucca Passage

ISC	**XII**	**05 13 56 13.0**±.61	**0.66N**±.024	**125.12E**±.032	**99**±6.1	**5.4b**	**187**	**6-164**	
MOS	XII	05 13 56 07.4	1.0N	125.0E	33	6.0b			**¶97xii0891**
EIDC	XII	05 13 56 11.5±1.62	0.7N	125.2E	67±13.3	5.3b			
NEIC	XII	05 13 56 12.3	0.66N	125.11E	89	5.5b			
BJI	XII	05 13 56 14.2	0.95N	125.19E	96	5.4b			

EIDC Error ellipse is semi−major=20.8km semi−minor=10.2km azimuth=78

NEIC Felt I=IV MM at Tondano and III MM at Manado, Sulawesi.

(218) Near east coast of Kamchatka

ISC	**XII**	**06 19 47 41.9**±.44	**54.14N**±.029	**160.81E**±.045	**60**±3.8	**5.3b**	**391**	**1-150**	
BJI	XII	06 19 47 37.5	54.51N	160.59E	28	5.2b,5.0s			**¶97xii1510**
NEIC	XII	06 19 47 38.7	54.18N	160.88E	33	5.5b,4.7s			
MOS	XII	06 19 47 39.0	54.4N	160.9E	31	5.6b			
KRSC	XII	06 19 47 40.8	54.04N	161.30E	56	5.1b			
HRVD	XII	06 19 47 45.1±.4	53.84N±.04	161.20E±.07	64±3.1				
EIDC	XII	06 19 47 46.1±3.15	54.2N	160.8E	83±29.0	4.8b,4.4s			

NEIC Mw5.2(HRV).

KRSC Felt I=IV M. Shipunskiy

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c42; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.77±.28; $M_{\theta\theta}$−3.29±.38; $M_{\phi\phi}$−3.48±.46; $M_{r\theta}$2.95±.49; $M_{r\phi}$3.33±.47; $M_{\theta\phi}$−3.29±.40. Principal Axes: T 8.11,Plg73°,Azm310°; N −0.10, Plg1°,Azm43°; P −8.01,Plg17°,Azm134°. Best double couple: M_O8.1×10^{16}Nm, NP1:ϕ_S225°, δ28°,λ92°. NP2:ϕ_S43°,δ62°,λ89°.

EIDC Error ellipse is semi−major=16.8km semi−minor=10.1km azimuth=147

(280) Banda Sea

ISC	**XII**	**06 21 06 43.6**±.71	**6.29S**±.032	**130.16E**±.037	**147**±7.8	**4.9b**	**126**	**7-158**	
DJA	XII	06 21 06 40.8±.27	6.3S	130.3E	118±8.8	6.6L,5.5b			**¶97xii1529**
BJI	XII	06 21 06 42.4	6.44S	130.35E	157	4.9b			
NEIC	XII	06 21 06 42.8	6.23S	130.12E	142	5.3b			
EIDC	XII	06 21 06 47.3±2.72	6.3S	130.2E	163±24.6	4.5b			

DJA Error ellipse is semi−major=9.1km semi−minor=4.9km azimuth=168

EIDC Error ellipse is semi−major=23.8km semi−minor=12.4km azimuth=77

(228) Near east coast of Honshū

ISC	**XII**	**07 03 50 40.9**±.35	**37.69N**±.026	**141.57E**±.034	**91**±3.0	**5.2b**	**328**	**1-156**	
MOS	XII	07 03 50 34.6	37.7N	141.6E	33	5.8b,4.6s			**¶97xii1603**
BJI	XII	07 03 50 38.6	37.79N	141.50E	69	5.4b,4.7s			
JMA	XII	07 03 50 40.3±.1	37.71N±.01	141.78E±.01	83±2	5.3			
NEIC	XII	07 03 50 40.4	37.70N	141.59E	87	5.3b			
EIDC	XII	07 03 50 40.5±.41	37.7N	141.6E	76±3.1	4.9b,4.2s			
HRVD	XII	07 03 50 42.2±.3	37.69N±.03	141.79E±.03	84±2.2				

NEIC Mw5.4(HRV). Felt I=VI MM.

NEIC Felt I=IV J1 in northern Miyagi Prefecture; III J1 in eastern Fukushima, western Iwate, southern Miyagi, northern Tochigi and eastern Yamagata Prefectures; II J1 in Ibaraki and southern Tochigi Prefectures.

EIDC Error ellipse is semi−major=12.7km semi−minor=8.1km azimuth=97

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c50; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.15±.03; $M_{\theta\theta}$0.25±.05; $M_{\phi\phi}$0.91±.06; $M_{r\theta}$0.08±.05; $M_{r\phi}$0.55±.05; $M_{\theta\phi}$0.15±.05. Principal Axes: T 1.08,Plg14°,Azm282°; N 0.21, Plg1°,Azm192°; P −1.29,Plg76°,Azm97°. Best double couple: M_O1.2×10^{17}Nm, NP1:ϕ_S14°, δ31°,λ−88°. NP2:ϕ_S191°,δ59°,λ−91°.

(216) Marianas

ISC	**XII**	**07 13 15 32**±2.1	**19.07N**±.037	**145.53E**±.053	**146**±11	**4.9b**	**140**	**5-148**	
MOS	XII	07 13 15 19.1	19.2N	145.8E	33	5.5b			**¶97xii1704**
BJI	XII	07 13 15 31.3	19.10N	145.40E	141	4.6b			
NEIC	XII	07 13 15 31.3	19.11N	145.49E	141	5.1b			
EIDC	XII	07 13 15 31.9±3.70	19.1N	145.5E	137±33.2	4.6b			

EIDC Error ellipse is semi−major=21.7km semi−minor=13.0km azimuth=98

(186) Vanuatu (New Hebrides)

ISC	**XII**	**07 16 31 13**±2.1	**13.21S**±.080	**166.1E**±.10	**77**±19	**4.5b**	**76**	**5-171**	
EIDC	XII	07 16 31 03.2±.77	13.2S	166.5E	0	4.6b,4.3L			**¶97xii1739**
NEIC	XII	07 16 31 06.1	13.12S	166.40E	33	4.6b			
BJI	XII	07 16 31 09.1	12.57S	166.73E	34	4.6b,5.5s			

EIDC Error ellipse is semi−major=22.4km semi−minor=17.2km azimuth=122

(192) New Britain region

ISC	**XII**	**08 18 47 22.4**±.63	**5.66S**±.029	**148.30E**±.040	**160**±6.2	**5.2b**	**174**	**2-153**	
MOS	XII	08 18 47 09.4	5.4S	148.1E	33	5.7b			**¶97xii1990**
BJI	XII	08 18 47 21.0	5.96S	148.43E	172	5.2b			
NEIC	XII	08 18 47 21.6	5.65S	148.32E	155	5.4b			
EIDC	XII	08 18 47 23.5±.64	5.6S	148.4E	156±4.8	5.0b,4.1s			
HRVD	XII	08 18 47 25.1±.6	5.80S±.05	148.12E±.08	137±3.3				

NEIC Mw5.4(HRV).

EIDC Error ellipse is semi−major=15.6km semi−minor=7.9km azimuth=109

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c24; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.44±.07; $M_{\theta\theta}$0.56±.08; $M_{\phi\phi}$−0.12±.09; $M_{r\theta}$−1.05±.06; $M_{r\phi}$0.06±.10; $M_{\theta\phi}$−0.31±.10. Principal Axes: T 1.28,Plg31°,Azm194°; N −0.17,Plg12°,Azm97°; P −1.12,Plg56°,Azm348°. Best double couple: M_O1.2×10^{17}Nm, NP1: ϕ_S318°,δ18°,λ−47°. NP2:ϕ_S94°,δ77°,λ−102°.

(193) Solomon Islands

ISC	**XII**	**09 02 17 41**±3.1	**10.78S**±.081	**163.7E**±.18	**97**±23	**4.7b**	**34**	**4-149**	
NEIC	XII	09 02 17 41.7	10.76S	163.67E	110	5.0b			**¶97xii2077**
BJI	XII	09 02 17 42.7	9.91S	163.84E	89	4.9b,5.7s			
EIDC	XII	09 02 17 42.7±5.32	10.8S	163.7E	102±43.3	4.3b,4.1s			

NEIC Less reliable solution.

EIDC Error ellipse is semi−major=36.6km semi−minor=20.1km azimuth=99

(124) Chile-Bolivia border region

ISC	**XII**	**09 14 23 40.7**±.89	**20.25S**±.037	**68.31W**±.042	**92**±8.6	**5.4b**	**291**	**3-168**	
MOS	XII	09 14 23 43.4	20.2S	68.3W	116	5.7b			**¶97xii2188**
BJI	XII	09 14 23 45.2	20.20S	68.40W	133				
NEIC	XII	09 14 23 45.2	20.24S	68.37W	133	5.7b			
EIDC	XII	09 14 23 47.7±.27	20.2S	68.4W	143±2.2	4.8b			
HRVD	XII	09 14 23 52.5±.3	20.14S±.04	68.70W±.04	152±1.4				

NEIC Mw5.7(GS), Mw5.7(HRV)

NEIC Felt I=V MM at Guatacondo, IV MM at Tocopilla and III MM at Arica, Iquique and Quillagua, Chile. Also felt II MM at Arequipa, Peru.

NEIC Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}−0.30; $M_{\theta\theta}$−2.99; $M_{\phi\phi}$3.29; $M_{r\theta}$0.43; $M_{r\phi}$−2.05; $M_{\theta\phi}$1.70. Depth 147km; Principal axes: T 4.48,Plg22°,Azm102°; N −0.77,Plg61°, Azm324°; P −3.71,Plg17°,Azm199°. Best double couple: M_O4.1×10^{17}Nm; NP1:ϕ_S241°,δ62°, λ3°. NP2:ϕ_S149°,δ87°,λ152°.

EIDC Error ellipse is semi−major=11.8km semi−minor=8.0km azimuth=88

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c40; Mantle waves: s4,c4; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}0.16±.09; $M_{\theta\theta}$−1.86±.12; $M_{\phi\phi}$1.70±.13; $M_{r\theta}$0.61±.09; $M_{r\phi}$−2.57±.10; $M_{\theta\phi}$2.08±.13. Principal Axes: T 3.93,Plg31°,Azm106°; N −0.27,Plg46°,Azm337°; P −3.66,Plg27°,Azm214°. Best double couple: M_O3.8×10^{17}Nm, NP1:ϕ_S252°,δ46°,λ4°. NP2:ϕ_S160°,δ87°,λ136°.

(269) Molucca Sea

ISC	**XII**	**09 23 48 41.5**±.71	**0.15S**±.028	**124.78E**±.035	**100**±7.4	**5.1b**	**157**	**2-163**	
BJI	XII	09 23 48 36.6	0.51S	124.95E	90	5.4b			**¶97xii2260**
MOS	XII	09 23 48 36.9	0.0S	124.8E	54	5.7b			
NEIC	XII	09 23 48 37.8	0.08S	124.79E	63	5.2b			
KLM	XII	09 23 48 38	0.1S	124.8E	63	4.6L			
EIDC	XII	09 23 48 38.5±1.50	0.1S	124.7E	55±12.3	4.9b,4.0s			
DJA	XII	09 23 48 41.7±.19	0.1N	124.9E	130±3.1	5.1D,5.0b			
KLM	MB5.2								

EIDC Error ellipse is semi−major=23.6km semi−minor=9.8km azimuth=70

DJA Error ellipse is semi−major=9.6km semi−minor=3.6km azimuth=165

(103) Colombia

ISC	**XII**	**11 07 56 29.7**±.23	**3.97N**±.020	**75.77W**±.020	**182**±2.5	**5.9b**	**765**	**0-174**	
BJI	XII	11 07 56 28.8	3.90N	75.80W	178				**¶97xii2519**
NEIC	XII	11 07 56 28.8	3.93N	75.79W	178	6.0b			
MOS	XII	11 07 56 29.8	4.0N	75.8W	185	6.5b			
EIDC	XII	11 07 56 33.6±.46	4.0N	75.7W	209±3.4	5.2b			
HRVD	XII	11 07 56 35.8±.1	4.11N±.01	75.84W±.01	190±.5				
IGQ	XII	11 07 56 36.8	3.4N	76.6W	246	6.0b			

NEIC Mw6.4(GS), Me6.1(GS). Damage.

NEIC Radiated energy from the P−wave first−motion solution: 3.0±0.6×10^{13}Nm/15

NEIC Mw 6.4 (HRV). Minor damage at Cali. Felt at Bogota, Ibague, Manizales, Medellin and Pereira.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S250°,δ54°,λ45°. NP2:ϕ_S130°,δ55°,λ134°. Principal axes: T Plg55°,Azm99°; P Plg1°,Azm190°. Depth from broadband displacement seismograms.

NEIC Moment tensor solution: s34, scale 10^{18}Nm; M_{rr}2.33; $M_{\theta\theta}$−3.29; $M_{\phi\phi}$0.97; $M_{r\theta}$0.36; $M_{r\phi}$−1.96; $M_{\theta\phi}$1.24. Depth 183km; Principal axes: T 3.75,Plg53°,Azm96°; N 0.01,Plg35°, Azm295°; P −3.76,Plg9°,Azm198°. Best double couple: M_O3.8×10^{18}Nm; NP1:ϕ_S254°,δ47°, λ38°. NP2:ϕ_S136°,δ63°,λ130°.

EIDC Error ellipse is semi−major=13.9km semi−minor=8.6km azimuth=66

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c102; Mantle waves: s34,c76; Half duration: 3s7. Moment tensor: Scale 10^{18}Nm; M_{rr}2.01±.03; $M_{\theta\theta}$−3.61±.03; $M_{\phi\phi}$1.60±.03; $M_{r\theta}$0.25±.02; $M_{r\phi}$−2.01±.03; $M_{\theta\phi}$1.49±.03. Principal Axes: T 3.92,Plg46°,Azm99°; N 0.19,Plg43°,Azm295°; P −4.11,Plg8°,Azm197°. Best double couple: M_O4.0×10^{18}Nm, NP1:ϕ_S249°,δ53°,λ31°. NP2:ϕ_S140°,δ66°,λ139°.

BOG Felt at Bogota and Medellin

(266) Molucca Passage

ISC	**XII**	**11 09 50 35.9**±.68	**2.33N**±.026	**127.06E**±.041	**66**±6.8	**5.0b**	**137**	**5-166**	
EIDC	XII	11 09 50 28.9±.48	2.3N	127.1E	0	5.0b			**¶97xii2539**
DJA	XII	11 09 50 31.0±.58	2.9N	127.0E	26±3.4	6.2L,5.5b			
MOS	XII	11 09 50 36.2	2.4N	127.2E	66	5.6b			
NEIC	XII	11 09 50 36.2	2.29N	127.06E	69	5.2b			
BJI	XII	11 09 50 36.3	2.22N	127.17E	74	5.0b,4.8s			
HRVD	XII	11 09 50 37.9±1.0	2.55N±.09	127.07E±.20	69±7.6				

EIDC Error ellipse is semi−major=31.4km semi−minor=8.0km azimuth=84

DJA Error ellipse is semi−major=13.1km semi−minor=5.4km azimuth=177

NEIC Mw5.6(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s6,c9; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.28±.56; $M_{\theta\theta}$−0.15±.54; $M_{\phi\phi}$2.43±1.08; $M_{r\theta}$−1.41±.48; $M_{r\phi}$−0.52±.40; $M_{\theta\phi}$0.83±.33. Principal Axes: T 2.84,Plg11°,Azm110°; N 0.14, Plg24°,Azm205°; P −2.98,Plg64°,Azm358°. Best double couple: M_O2.9×10^{17}Nm, NP1: ϕ_S174°,δ40°,λ−129°. NP2:ϕ_S40°,δ60°,λ−62°.

(192) New Britain region

ISC	**XII**	**15 10 28 09.5**±.84	**6.10S**±.034	**149.88E**±.046	**67**±7.8	**5.0b**	**211**	**3-163**	
MOS	XII	15 10 28 05.9	6.0S	149.6E	33	5.6b,5.4s			**¶97xii3267**
NEIC	XII	15 10 28 06.0	6.04S	149.87E	33	5.3b,5.8s			
BJI	XII	15 10 28 06.6	6.11S	149.92E	42	5.0b,5.7s			
EIDC	XII	15 10 28 08.2±.37	6.1S	150.0E	38±3.1	4.7b,5.3s			
HRVD	XII	15 10 28 13.5±.2	6.51S±.02	150.12E±.02	35				

NEIC Mw5.9(GS), M_L5.8(PMG).

NEIC Mw 5.9 (HRV).

NEIC Moment tensor solution: s18, scale 10^{17}Nm; M_{rr}5.97; $M_{\theta\theta}$−6.57; $M_{\phi\phi}$0.61; $M_{r\theta}$2.14; $M_{r\phi}$0.14; $M_{\theta\phi}$0.90. Depth 33km; Principal axes: T 6.33,Plg80°,Azm343°; N 0.69,Plg4°,Azm96°; P −7.03,Plg9°,Azm187°. Best double couple: M_O6.7×10^{17}Nm; NP1:ϕ_S281°,δ36°,λ97°. NP2: ϕ_S93°,δ54°,λ85°.

EIDC Error ellipse is semi−major=19.0km semi−minor=11.0km azimuth=94

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c93; Mantle waves: s6,c8; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}7.24±.11; $M_{\theta\theta}$−8.23±.16; $M_{\phi\phi}$0.99±.18; $M_{r\theta}$4.19±.28; $M_{r\phi}$1.13±.23; $M_{\theta\phi}$−1.40±.13. Principal Axes: T 8.38,Plg75°,Azm336°; N 1.17,Plg4°,Azm80°; P −9.55,Plg14°,Azm171°. Best double couple: M_O9.0×10^{17}Nm, NP1:ϕ_S266°,δ31°,λ97°. NP2:ϕ_S78°,δ60°,λ86°.

(207) Eastern New Guinea region

ISC	**XII**	**16 23 50 46.8**±.56	**5.93S**±.027	**147.18E**±.031	**115**±5.3	**5.5b**	**297**	**1-164**	
MOS	XII	16 23 50 37.6	5.8S	147.3E	33	5.9b			**¶97xii3525**

Agency		Origin Time		φ	λ	h	Mag	*n*	Δ-Rng
	mo	d h m s		°	°	km			°
BJI	XII	16 23 50 39.1		6.51S	147.86E	103	5.2b		
NEIC	XII	16 23 50 45.2		5.87S	147.17E	103	5.7b		
EIDC	XII	16 23 50 47.0±1.17		5.9S	147.1E	100±8.0	5.2b,4.9s		
HRVD	XII	16 23 50 50.2±.2		6.08S±.02	147.31E±.02	108±1.3			

NEIC Mw5.8(GS), Mw5.8(HRV).

NEIC Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}2.62; $M_{\theta\theta}$1.38; $M_{\phi\phi}$−4.00; $M_{r\theta}$2.84; $M_{r\theta}$−2.92; $M_{\theta\phi}$0.31. Depth 89km; Principal axes: T 5.41,Plg53°,Azm23°; N −0.02,Plg26°, Azm154°; P −5.38,Plg24°,Azm257°. Best double couple: $M_0$5.4×10^{17}Nm; NP1:ϕ_S27°,δ32°, λ147°. NP2:ϕ_S146°,δ73°,λ63°.

EIDC Error ellipse is semi−major=16.4km semi−minor=9.9km azimuth=113

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c79; Mantle waves: s17,c19; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}2.47±.08; $M_{\theta\theta}$0.83±.12; $M_{\phi\phi}$−3.30±.14; $M_{r\theta}$3.05±.08; $M_{r\phi}$−2.98±.08; $M_{\theta\phi}$−0.72±.11. Principal Axes: T 5.70,Plg52°,Azm29°; N −1.07,Plg26°,Azm159°; P −4.63,Plg25°,Azm262°. Best double couple: $M_0$5.2×10^{17}Nm, NP1:ϕ_S35°,δ31°,λ150°. NP2:ϕ_S151°,δ75°,λ63°.

(718) Hindu Kush region

ISC	**XII**	**17 05 51 29.6**±.33	**36.42N**±.023	**70.79E**±.020	**210**±3.8	**5.3b**	**590**	**3-150**	
NEIC	XII	17 05 51 29.2	36.39N	70.77E	207	5.5b			**¶97xii3561**
BJI	XII	17 05 51 29.4	36.56N	70.76E	205	5.6b			
MOS	XII	17 05 51 29.5	36.5N	70.8E	204	5.7b			
EIDC	XII	17 05 51 31.7±.40	36.4N	70.8E	215±3.0	5.4b			
NDI	XII	17 05 51 36	36.50N	73.10E	96	5.3b			
HRVD	XII	17 05 51 36.2±.2	36.53N±.02	70.62E±.02	224±1.4				

NEIC Mw6.3(HRV). Felt.

MOS Felt I=IV MSK at Samarkand; I=III−IV at Tashkent; I=III at Fergana; I=II−III at Djambul, Chimkent.

EIDC Error ellipse is semi−major=9.4km semi−minor=7.3km azimuth=35

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c79; Mantle waves: s37,c64; Half duration: 3s4. Moment tensor: Scale 10^{18}Nm; M_{rr}1.97±.04; $M_{\theta\theta}$−1.80±.06; $M_{\phi\phi}$−0.17±.06; $M_{r\theta}$2.36±.04; $M_{r\phi}$−0.71±.04; $M_{\theta\phi}$0.61±.07. Principal Axes: T 3.15,Plg64°,Azm16°; N 0.03,Plg1°,Azm107°; P −3.19,Plg26°,Azm198°. Best double couple: $M_0$3.2×10^{18}Nm, NP1:ϕ_S289°,δ19°,λ92°. NP2:ϕ_S107°,δ71°,λ89°.

(73) El Salvador

ISC	**XII**	**18 15 02 00.7**±.17	**13.83N**±.032	**88.76W**±.026	**186**±.8*	**5.3b**	**485**	**4-164**	
BJI	XII	18 15 02 00.3	13.80N	88.70W	182				**¶97xii3785**
NEIC	XII	18 15 02 00.3	13.84N	88.74W	182	5.3b			
EIDC	XII	18 15 02 02.0±.24	13.8N	88.8W	179±1.8	5.1b,5.0s			
HRVD	XII	18 15 02 05.0±.1	13.94N±.01	89.19W±.01	178±.5				
MOS	XII	18 15 02 07.7	13.8N	89.0W	261	5.7b			
MEX	XII	18 15 02 13.9	14.7N	89.7W	152	5.1D			

NEIC Mw6.1(GS), Me5.3(GS).

NEIC Mw 6.0 (HRV). Depth from broadband displacement seismograms.

NEIC Radiated energy from the USGS moment tensor solution: 1.7±0.4×10^{12}Nm/11

NEIC Moment tensor solution: s38, scale 10^{17}Nm; M_{rr}8.80; $M_{\theta\theta}$−5.60; $M_{\phi\phi}$−3.20; $M_{r\theta}$8.30; $M_{r\phi}$−6.90; $M_{\theta\phi}$6.90. Depth 179km; Principal axes: T 13.5,Plg66°,Azm39°; N 2.6,Plg0°, Azm130°; P −16.1,Plg24°,Azm220°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S310°,δ22°, λ91°. NP2:ϕ_S130°,δ69°,λ90°.

EIDC Error ellipse is semi−major=12.4km semi−minor=7.0km azimuth=70

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c103; Mantle waves: s36,c48; Half duration: 2s6. Moment tensor: Scale 10^{17}Nm; M_{rr}6.43±.10; $M_{\theta\theta}$−2.52±.15; $M_{\phi\phi}$−3.90±.17; $M_{r\theta}$6.90±.09; $M_{r\phi}$−6.67±.10; $M_{\theta\phi}$2.13±.14. Principal Axes: T 11.8,Plg61°,Azm41°; N −1.1,Plg3°,Azm137°; P −10.7,Plg29°,Azm229°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S328°,δ16°,λ102°. NP2:ϕ_S136°,δ74°,λ86°.

(207) Eastern New Guinea region

ISC	**XII**	**19 01 07 25.2**±.74	**6.04S**±.032	**147.15E**±.040	**87**±6.7	**5.2b**	**197**	**1-164**	
BJI	XII	19 01 07 20.0	6.40S	147.55E	77	5.5b,5.0s			**¶97xii3866**
NEIC	XII	19 01 07 20.9	6.00S	147.17E	45	5.2b,5.2s			
MOS	XII	19 01 07 21.4	6.0S	147.2E	48	5.7b			
EIDC	XII	19 01 07 22.3±.44	6.0S	147.2E	42±3.5	5.1b,5.1s			
HRVD	XII	19 01 07 27.7±.2	6.09S±.02	147.44E±.02	50±1.7				

NEIC Mw5.5(HRV).

EIDC Error ellipse is semi−major=15.1km semi−minor=8.9km azimuth=110

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c76; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}2.16±.05; $M_{\theta\theta}$−2.04±.07; $M_{\phi\phi}$−0.12±.09; $M_{r\theta}$0.00±.09; $M_{r\phi}$0.15±.08; $M_{\theta\phi}$0.44±.06. Principal Axes: T 2.17,Plg86°,Azm276°; N −0.04, Plg4°,Azm102°; P −2.13,Plg0°,Azm12°. Best double couple: $M_0$2.2×10^{17}Nm, NP1:ϕ_S98°, δ45°,λ85°. NP2:ϕ_S286°,δ46°,λ95°.

(256) Leyte

ISC	**XII**	**20 15 45 48.3**±.69	**10.11N**±.032	**126.00E**±.049	**71**±6.2	**4.8b**	**148**	**1-164**	
NEIC	XII	20 15 45 44.1	10.14N	126.03E	33	5.0b			**¶97xii4136**
BJI	XII	20 15 45 44.3	9.68N	126.12E	61	5.1b,4.5s			
MOS	XII	20 15 45 44.5	10.1N	125.7E	33	5.5b			
EIDC	XII	20 15 45 45.7±.46	10.0N	125.9E	34±3.2	4.6b,4.4s			
HRVD	XII	20 15 45 48.8±.9	9.85N±.10	126.19E±.09	49±7.9				

NEIC Mw5.2(HRV).

EIDC Error ellipse is semi−major=21.5km semi−minor=10.1km azimuth=74

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.08±.48; $M_{\theta\theta}$−0.65±.90; $M_{\phi\phi}$−5.43±.95; $M_{r\theta}$4.14±1.41; $M_{r\phi}$3.85±1.11; $M_{\theta\phi}$−0.10±.61. Principal Axes: T 8.89,Plg63°,Azm328°; N −1.96,Plg17°,Azm201°; P −6.93,Plg20°,Azm105°. Best double couple: $M_0$7.9×10^{16}Nm, NP1:ϕ_S168°,δ29°,λ53°. NP2:ϕ_S29°,δ67°,λ108°.

(207) Eastern New Guinea region

ISC	**XII**	**22 02 05 51.6**±.48	**5.56S**±.024	**147.84E**±.025	**190**±4.7	**6.3b**	**911**	**2-164**	
NEIC	XII	22 02 05 50.0	5.50S	147.87E	179	6.3b,6.7s			**¶97xii4335**
MOS	XII	22 02 05 50.8	5.5S	147.9E	180	6.6b			
BJI	XII	22 02 05 51.5	5.79S	148.11E	209	6.2b			
EIDC	XII	22 02 05 56.9±.53	5.6S	147.8E	230±5.0	5.9b			
HRVD	XII	22 02 06 01.8±.1	5.56S±.01	148.05E±.01	197±.4				

NEIC Mw7.2(HRV), Me7.1(GS). Damage.

NEIC Radiated energy from the P−wave first−motion solution: 8.7±2.7×10^{14}Nm/11

NEIC Mw 7.0 (GS). Mb 6.4 (BRK). Some minor damage at Lae. Felt at Madang, Morobe, Port Moresby and on New Britain. Mo=5.6×10^{19}Nm (PPT).

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S190°,δ55°,λ−70°. NP2:ϕ_S338°,δ40°, λ−116°. Principal axes: T Plg8°,Azm266°; P Plg72°,Azm151°. Complex event observed on broadband displacement seismograms.

NEIC Moment tensor solution: s26, scale 10^{19}Nm; M_{rr}−3.80; $M_{\theta\theta}$−0.15; $M_{\phi\phi}$3.96; $M_{r\theta}$0.73; $M_{r\phi}$0.83; $M_{\theta\phi}$−0.43. Depth 164km; Principal axes: T 4.07,Plg6°,Azm265°; N −0.03,Plg12°, Azm356°; P −4.05,Plg77°,Azm150°. Best double couple: $M_0$4.1×10^{19}Nm; NP1:ϕ_S342°,δ41°, λ−108°. NP2:ϕ_S186°,δ52°,λ−75°.

EIDC Error ellipse is semi−major=17.1km semi−minor=11.0km azimuth=103

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c125; Mantle waves: s54,c145; Half duration: 8s7. Moment tensor: Scale 10^{19}Nm; M_{rr}−0.44±.03; $M_{\theta\theta}$−5.16±.03; $M_{\phi\phi}$5.60±.03; $M_{r\theta}$3.26±.02; $M_{r\phi}$0.55±.02; $M_{\theta\phi}$−0.20±.03. Principal Axes: T 5.65,Plg5°,Azm271°; N 1.19,Plg62°,Azm11°; P −6.84,Plg27°,Azm178°. Best double couple: $M_0$6.2×10^{19}Nm, NP1:ϕ_S318°,δ67°,λ−164°. NP2:ϕ_S221°,δ75°,λ−24°.

(224) Hokkaido region

ISC	**XII**	**22 19 08 03.8**±.25	**43.07N**±.026	**143.39E**±.030	**119**±2.2	**5.3b**	**459**	**0-156**	
MOS	XII	22 19 08 02.4	43.1N	143.4E	110	5.7b			**¶97xii4471**
BJI	XII	22 19 08 02.6	43.11N	143.41E	115	5.3b			
NEIC	XII	22 19 08 03.2	43.08N	143.38E	115	5.3b			
SKHL	XII	22 19 08 04.0	43.0N±.05	143.5E±.09	130±2				
JMA	XII	22 19 08 04.6±.1	42.98N±.01	143.49E±.01	113±2	5.1			
EIDC	XII	22 19 08 05.5±.47	43.1N	143.5E	125±3.7	5.1b			

NEIC Felt I=III J1 in southeastern Hokkaido and I J1 in eastern Aomori, northern Miyagi and much of Iwate Prefectures, Honshu.

SKHL K11.5

JMA Nodal plane solution: N151, Score 97%. NP1:ϕ_S39°,δ65°,λ159°. NP2:ϕ_S139°,δ70°,λ27°. Principle axes: T Plg33°,Azm0°; N Plg57°,Azm173°; P Plg3°,Azm268°.

EIDC Error ellipse is semi−major=9.9km semi−minor=7.7km azimuth=79Multiple, mixed az

(277) Java

ISC	**XII**	**25 22 30 53.9**±.72	**7.40S**±.059	**106.66E**±.055	**71**±6.2	**4.7b**	**126**	**0-151**	
EIDC	XII	25 22 30 50.2±4.21	7.5S	106.5E	26±27.9	4.4b,4.0s			**¶97xii4996**
MOS	XII	25 22 30 50.8	7.1S	107.0E	38	5.8b,5.2s			
BJI	XII	25 22 30 51.8	7.50S	106.60E	50	5.0b,4.7s			
NEIC	XII	25 22 30 51.8	7.53S	106.60E	50	4.9b			

EIDC Error ellipse is semi−major=19.5km semi−minor=12.9km azimuth=66

(192) New Britain region

ISC	**XII**	**28 03 25 17**±1.4	**4.46S**±.034	**152.97E**±.045	**70**±13	**5.3b**	**323**	**7-163**	
BJI	XII	28 03 25 13.0	4.35S	153.11E	33	5.7b,5.1s			**¶97xii5388**
NEIC	XII	28 03 25 13.1	4.41S	152.95E	33	5.4b,5.2s			
MOS	XII	28 03 25 13.9	4.4S	152.9E	33	6.0b			
EIDC	XII	28 03 25 16.1±.51	4.5S	152.9E	39±3.2	5.0b,4.7s			
HRVD	XII	28 03 25 19.6±.3	4.47S±.03	153.18E±.03	40±2.3				

NEIC Mw5.4(GS), Mw5.4(HRV).

NEIC Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}1.51; $M_{\theta\theta}$−0.09; $M_{\phi\phi}$−1.41; $M_{r\theta}$0.15; $M_{r\phi}$0.02; $M_{\theta\phi}$−0.04. Depth 28km; Principal axes: T 1.52,Plg85°,Azm356°; N −0.11,Plg5°, Azm182°; P −1.41,Plg1°,Azm92°. Best double couple: $M_0$1.5×10^{17}Nm; NP1:ϕ_S176°,δ45°, λ82°. NP2:ϕ_S7°,δ46°,λ98°.

EIDC Error ellipse is semi−major=15.1km semi−minor=9.4km azimuth=103

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c54; Mantle waves: s3,c3; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.54±.04; $M_{\theta\theta}$0.12±.05; $M_{\phi\phi}$−1.65±.07; $M_{r\theta}$0.07±.09; $M_{r\phi}$0.39±.09; $M_{\theta\phi}$−0.02±.04. Principal Axes: T 1.59,Plg83°,Azm289°; N 0.12,Plg2°,Azm181°; P −1.70,Plg7°,Azm91°. Best double couple: $M_0$1.6×10^{17}Nm, NP1:ϕ_S178°,δ38°,λ86°. NP2:ϕ_S3°,δ52°,λ93°.

MAJOR DEEP FOCUS EARTHQUAKES (h>300k,M≥5)

(171) South of Fiji

ISC	**VII**	**05 23 21 29.4**±.85	**22.06S**±.052	**179.28W**±.047	**576**±12	**4.9b**	**313**	**11-164**	
BJI	VII	05 23 21 29.8	22.05S	179.35W	584	5.2b			**¶97vii0807**
NEIC	VII	05 23 21 30.1	22.02S	179.33W	587	4.9b			
EIDC	VII	05 23 21 31.1	22.0S	179.3W	586	4.3b			
HRVD	VII	05 23 21 34.3±.5	21.89S±.04	179.07W±.04	607±2.2				

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c54; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.04±.04; $M_{\theta\theta}$0.31±.06; $M_{\phi\phi}$0.73±.06; $M_{r\theta}$−0.23±.06; $M_{r\phi}$−0.28±.06; $M_{\theta\phi}$0.39±.07. Principal Axes: T 1.02,Plg10°,Azm121°; N 0.09, Plg2°,Azm211°; P −1.11,Plg80°,Azm315°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S208°,δ35°,λ−94°. NP2:ϕ_S33°,δ55°,λ−87°.

(657) E. Russia-N.E. China border region

ISC	**VII**	**06 01 51 47.9**±.20	**42.90N**±.025	**131.51E**±.032	**538**±3.5	**4.6b**	**358**	**2-153**	
MOS	VII	06 01 51 47.7	42.8N	131.5E	549	5.0b			**¶97vii0821**
JMA	VII	06 01 51 47.9±.1	42.89N±.01	131.82E±.02	599±4	5.6			
NEIC	VII	06 01 51 47.9	42.87N	131.33E	542	4.7b			
EIDC	VII	06 01 51 48.9	42.9N	131.5E	548	4.2b			
BJI	VII	06 01 51 49.8	42.79N	131.29E	558	5.3b			

(211) South of Honshū

ISC	**VII**	**08 11 03 39.6**±.22	**30.41N**±.024	**138.43E**±.027	**448**±2.1	**5.0b**	**458**	**3-166**	
BJI	VII	08 11 03 37.1	30.30N	138.45E	435	5.6b			**¶97vii1178**
NEIC	VII	08 11 03 37.6	30.40N	138.29E	428	5.0b			
JMA	VII	08 11 03 38.4±.1	30.37N±.01	138.73E±.01	454±2	5.5			
EIDC	VII	08 11 03 39.2	30.4N	138.5E	436	4.7b			
MOS	VII	08 11 03 39.3	30.5N	138.4E	449	5.1b			

(212) Bonin Islands region

ISC	**VII**	**10 06 37 14.1**±.36	**28.33N**±.039	**139.14E**±.045	**517**±3.9	**4.1b**	**193**	**3-153**	
BJI	VII	10 06 37 11.6	28.26N	139.13E	496	4.8b			**¶97vii1462**
NEIC	VII	10 06 37 13.1	28.44N	138.97E	503	4.1b			
EIDC	VII	10 06 37 14.3	28.4N	139.1E	507	3.5b			
JMA	VII	10 06 37 14.6±.1	28.40N±.02	139.35E±.02	513±2	5.0			

(275) Java Sea

ISC	**VII**	**11 09 55 12.6**±.27	**5.72S**±.030	**110.73E**±.030	**577**±3.9	**5.4b**	**424**	**3-175**	
MOS	VII	11 09 55 09.4	5.7S	110.7E	535	5.8b,4.7s			**¶97vii1659**
DJA	VII	11 09 55 10.9	6.1S	110.6E	572	6.2b,4.9D			
BJI	VII	11 09 55 11.7	5.84S	110.72E	579	5.8b			
KLM	VII	11 09 55 12	5.6S	110.7E	574	5.2L			
NEIC	VII	11 09 55 12.5	5.70S	110.80E	574	5.6b			
EIDC	VII	11 09 55 13.6	5.7S	110.7E	576	4.9b			
HRVD	VII	11 09 55 17.3±.1	5.70S±.01	110.65E±.02	592±.9				

KLM Mb5.6

NEIC Mw6.0(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s64,c129; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−3.45±.09; $M_{\theta\theta}$7.24±.12; $M_{\phi\phi}$−3.79±.15; $M_{r\theta}$1.84±.12; $M_{r\phi}$−6.03±.13; $M_{\theta\phi}$−3.50±.13. Principal Axes: T 9.35,Plg18°,Azm23°; N 0.40, Plg42°,Azm130°; P −9.75,Plg43°,Azm276°. Best double couple: $M_0$9.6×10^{17}Nm, NP1: ϕ_S69°,δ46°,λ−158°. NP2:ϕ_S324°,δ75°,λ−46°.

(275) Java Sea

ISC	**VII**	**11 10 00 23.3**±.94	**5.75S**±.054	**110.77E**±.082	**596**±14	**4.7b**	**75**	**9-158**	
BJI	VII	11 10 00 21.8	5.70S	110.70E	571	5.7b			**¶97vii1663**
NEIC	VII	11 10 00 21.8	5.71S	110.70E	571	4.9b			
KLM	VII	11 10 00 22	5.7S	110.7E	571	4.2L			
EIDC	VII	11 10 00 31.7	5.7S	111.0E	700	4.2b			
KLM	Mb4.9								

(279) Flores Sea

ISC	**VII**	**26 20 44 20.9**±.35	**7.32S**±.037	**120.39E**±.047	**588**±5.9	**4.7b**	**150**	**2-155**	
DJA	VII	26 20 44 19.3	7.6S	120.4E	572	6.1L,5.1b			**¶97vii4009**
NEIC	VII	26 20 44 20.8	7.31S	120.37E	587	5.2b			
EIDC	VII	26 20 44 20.9	7.4S	120.4E	572	4.0b			
BJI	VII	26 20 44 21.1	7.22S	120.60E	585	4.9b			
MOS	VII	26 20 44 21.6	7.3S	120.3E	597	4.8b			

ISC DJA magnitude values may be overestimated

(212) Bonin Islands region

ISC	**VII**	**27 06 54 25.7**±.42	**27.31N**±.035	**140.50E**±.044	**353**±3.4	**4.4b**	**223**	**2-151**	
MOS	VII	27 06 54 23.6	27.3N	140.1E	331	5.0b			**¶97vii4074**
BJI	VII	27 06 54 23.9	27.25N	140.43E	347	4.7b			
NEIC	VII	27 06 54 24.5	27.34N	140.15E	340	4.6b			
EIDC	VII	27 06 54 25.1	27.3N	140.3E	334	4.1b			
JMA	VII	27 06 54 28.0±.2	27.55N±.01	140.70E±.02	330±2				

(181) Fiji region

ISC	**VII**	**27 19 06 20**±1.0	**20.89S**±.059	**178.67W**±.043	**593**±14	**4.8b**	**258**	**14-165**
NEIC	VII	27 19 06 20.7	20.75S	178.77W	600	4.8b		**¶97vii4154**
BJI	VII	27 19 06 21.3	20.76S	178.60W	609	5.0b		
EIDC	VII	27 19 06 23.2	20.7S	178.8W	613	4.1b		
MOS	VII	27 19 06 25.5	19.6S	178.4W	600	5.0b		

(181) Fiji region

ISC	**VIII**	**25 11 58 59**±1.2	**20.82S**±.042	**177.75W**±.038	**370**±12	**5.3b**	**508**	**8-164**
MOS	VIII	25 11 58 56.4	20.7S	177.7W	342	5.7b		**¶97viii3686**
NEIC	VIII	25 11 59 00.8	20.80S	177.78W	394	5.3b		
BJI	VIII	25 11 59 01.1	20.51S	177.51W	393	5.5b		
EIDC	VIII	25 11 59 05.1	20.7S	177.8W	421	4.8b		
HRVD	VIII	25 11 59 06.1±.2	20.81S	177.50W	416±1.1			

NEIC Mw5.6(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c75; Mantle waves: s6,c7; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.69±.05; $M_{\theta\theta}$1.07±.08; $M_{\phi\phi}$1.62±.09; $M_{r\theta}$−0.22±.08; $M_{r\phi}$−0.48±.09; $M_{\theta\phi}$0.77±.07. Principal Axes: T 2.22,Plg6°,Azm125°; N 0.53,Plg2°,Azm35°; P −2.75,Plg84°,Azm290°. Best double couple: $M_0$2.5×10^{17}Nm, NP1:ϕ_S217°,δ39°,λ−87°. NP2:ϕ_S34°,δ51°,λ−92°.

(171) South of Fiji

ISC	**VIII**	**26 15 22 08.1**±.54	**25.54S**±.038	**178.37E**±.036	**597**±7.6	**5.4b**	**536**	**5-166**
MOS	VIII	26 15 22 07.9	25.4S	178.4E	589	5.6b		**¶97viii3869**
EIDC	VIII	26 15 22 08.0	25.4S	178.5E	580	4.8b		
BJI	VIII	26 15 22 09.1	25.17S	178.32E	600	5.5b		
NEIC	VIII	26 15 22 09.1	25.51S	178.33E	610	5.5b		
HRVD	VIII	26 15 22 13.6±.3	25.43S±.03	178.34E±.03	605±1.6			

NEIC Mw5.7(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c66; Mantle waves: s13,c13; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.16±.07; $M_{\theta\theta}$−0.84±.09; $M_{\phi\phi}$1.01±.10; $M_{r\theta}$−0.77±.09; $M_{r\phi}$−3.57±.08; $M_{\theta\phi}$−0.48±.08. Principal Axes: T 4.04,Plg41°,Azm92°; N −0.54,Plg13°,Azm194°; P −3.50,Plg47°,Azm298°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S117°,δ13°,λ−167°. NP2:ϕ_S14°,δ87°,λ−77°.

(661) Near east coast of Eastern Russia

ISC	**VIII**	**30 04 54 48.7**±.19	**43.50N**±.025	**135.70E**±.033	**350**±3.1	**4.9b**	**421**	**3-160**
MOS	VIII	30 04 54 47.7	43.5N	135.6E	339	5.2b		**¶97viii4428**
NEIC	VIII	30 04 54 48.2	43.50N	135.63E	345	5.1b		
BJI	VIII	30 04 54 48.9	43.48N	135.70E	377	5.2b		
EIDC	VIII	30 04 54 49.2	43.5N	135.7E	346	4.0b		
JMA	VIII	30 04 54 50.6±.1	43.26N±.01	136.18E±.03	388±3	5.6		

(171) South of Fiji

ISC	**IX**	**04 04 23 35.7**±.46	**26.50S**±.036	**178.32E**±.031	**608**±6.7	**6.3b**	**889**	**4-173**
MOS	IX	04 04 23 35.3	26.3S	178.3E	596	6.7b		**¶97ix0543**
BJI	IX	04 04 23 36.8	26.33S	178.42E	625	6.3b		
NEIC	IX	04 04 23 37.0	26.57S	178.34E	625	6.3b		
EIDC	IX	04 04 23 37.1	26.5S	178.2E	611	5.7b		
HRVD	IX	04 04 23 42.2±.1	26.45S±.01	178.52E±.01	621±.5			

NEIC Mw6.8(GS), Me6.5(GS).

NEIC Mw 6.8 (HRV). Mb 6.4 (BRK). M_0=2.2×10^{19}Nm (PPT).

NEIC Radiated energy from the P−wave first−motion solution: 1.1±0.1×10^{14}Nm/16

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S30°,δ80°,λ−90°. NP2:ϕ_S210°,δ10°,λ−90°. Principal axes: T Plg35°,Azm120°; P Plg55°,Azm300°. Complex earthquake observed on broadband velocity seismograms.

NEIC Moment tensor solution: s25, scale 10^{19}Nm; M_{rr}−1.27; $M_{\theta\theta}$0.61; $M_{\phi\phi}$0.66; $M_{r\theta}$−0.79; $M_{r\phi}$−1.56; $M_{\theta\phi}$−0.24. Depth 611km; Principal axes: T 1.57,Plg31°,Azm105°; N 0.79,Plg7°, Azm199°; P −2.36,Plg58°,Azm300°. Best double couple: $M_0$2.0×10^{19}Nm; NP1:ϕ_S174°,δ15°, λ−116°. NP2:ϕ_S21°,δ76°,λ−83°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c155; Mantle waves: s54,c127; Half duration: 6s3. Moment tensor: Scale 10^{19}Nm; M_{rr}−0.93±.01; $M_{\theta\theta}$0.57±.01; $M_{\phi\phi}$0.36±.01; $M_{r\theta}$−0.84±.01; $M_{r\phi}$−1.74±.01; $M_{\theta\phi}$0.16±.01. Principal Axes: T 1.88,Plg34°,Azm123°; N 0.39,Plg5°,Azm29°; P −2.27,Plg55°,Azm292°. Best double couple: $M_0$2.1×10^{19}Nm, NP1:ϕ_S235°,δ12°,λ−64°. NP2:ϕ_S28°,δ80°,λ−95°.

(171) South of Fiji

ISC	**IX**	**04 04 30 24.8**±.94	**26.2S**±.10	**178.3E**±.13	**607**±13	**5.1b**	**69**	**5-163**
EIDC	IX	04 04 30 20.8	26.1S	178.5E	547	4.6b		**¶97ix0544**
NEIC	IX	04 04 30 24.4	26.26S	178.39E	600	4.8b		

EIDC Aftershock: abbreviated analysis

NEIC Less reliable solution.

(171) South of Fiji

ISC	**IX**	**04 06 02 24.6**±.62	**26.25S**±.052	**178.22E**±.050	**631**±9.0	**5.2b**	**281**	**5-166**
BJI	IX	04 06 02 24.4	25.86S	178.47E	626	5.2b		**¶97ix0553**
NEIC	IX	04 06 02 24.5	26.18S	178.21E	628	5.1b		
EIDC	IX	04 06 02 25.9	26.2S	178.2E	630	4.3b		

(190) New Ireland region

ISC	**IX**	**04 20 53 01.7**±.43	**3.53S**±.029	**151.42E**±.033	**400**±4.8	**5.0b**	**362**	**1-164**
NEIC	IX	04 20 52 58.3	3.48S	151.39E	366	5.1b		**¶97ix0633**
BJI	IX	04 20 52 58.8	3.17S	151.77E	362	5.1b		
MOS	IX	04 20 53 01.5	3.5S	151.4E	392	5.5b		
EIDC	IX	04 20 53 03.8	3.6S	151.5E	409	4.6b		
HRVD	IX	04 20 53 05.9±.2	3.34S±.02	151.63E±.03	386±.9			

NEIC Mw5.7(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s48,c81; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.07; $M_{\theta\theta}$−1.04±.09; $M_{\phi\phi}$0.27±.10; $M_{r\theta}$3.03±.07; $M_{r\phi}$−1.03±.08; $M_{\theta\phi}$−2.79±.10. Principal Axes: T 4.59,Plg38°,Azm42°; N −0.53, Plg42°,Azm267°; P −4.06,Plg25°,Azm152°. Best double couple: $M_0$4.3×10^{17}Nm, NP1: ϕ_S193°,δ43°,λ12°. NP2:ϕ_S94°,δ82°,λ133°.

(193) Solomon Islands

ISC	**IX**	**07 12 57 06.3**±.57	**6.02S**±.027	**154.49E**±.032	**416**±6.6	**5.5b**	**505**	**3-160**
MOS	IX	07 12 57 06.1	5.9S	154.6E	406	5.9b		**¶97ix1066**
BJI	IX	07 12 57 06.5	5.61S	154.74E	409	5.4b		
NEIC	IX	07 12 57 06.7	6.02S	154.46E	421	5.6b		
EIDC	IX	07 12 57 06.8	6.0S	154.5E	408	5.1b		
HRVD	IX	07 12 57 10.5±.2	5.94S±.02	154.53E±.02	418±.9			

NEIC Mw5.8(GS), Mw5.8(HRV).

NEIC Moment tensor solution: s21, scale 10^{17}Nm; M_{rr}−3.09; $M_{\theta\theta}$−0.26; $M_{\phi\phi}$3.35; $M_{r\theta}$−3.12; $M_{r\phi}$2.32; $M_{\theta\phi}$−3.02. Depth 411km; Principal axes: T 6.44,Plg21°,Azm236°; N −1.32,Plg22°, Azm137°; P −5.12,Plg59°,Azm5°. Best double couple: $M_0$5.8×10^{17}Nm; NP1:ϕ_S360°,δ31°, λ−43°. NP2:ϕ_S129°,δ69°,λ−114°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c82; Mantle waves: s31,c32; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.65±.06; $M_{\theta\theta}$−0.60±.10; $M_{\phi\phi}$3.26±.11; $M_{r\theta}$−3.92±.10; $M_{r\phi}$2.61±.09; $M_{\theta\phi}$−2.24±.09. Principal Axes: T 6.26,Plg26°,Azm237°; N −0.51,Plg23°,Azm135°; P −5.75,Plg54°,Azm9°. Best double couple: $M_0$6.0×10^{17}Nm, NP1:ϕ_S7°,δ28°,λ−34°. NP2:ϕ_S128°,δ75°,λ−114°.

(279) Flores Sea

ISC	**IX**	**22 07 23 22.9**±.38	**7.19S**±.047	**120.34E**±.065	**587**±6.3	**4.6b**	**67**	**2-147**
DJA	IX	22 07 23 21.2	7.4S	120.4E	572	5.1ι,5.1b		**¶97ix3240**
BJI	IX	22 07 23 23.4	7.20S	120.30E	600	4.5b		
NEIC	IX	22 07 23 23.4	7.20S	120.34E	600	4.9b		
EIDC	IX	22 07 23 23.7	7.2S	120.6E	576	3.8b		

(661) Near east coast of Eastern Russia

ISC	**X**	**01 06 05 47.5**±.28	**46.18N**±.028	**136.11E**±.034	**406**±3.8	**5.0b**	**437**	**4-160**
MOS	X	01 06 05 47.7	46.2N	136.2E	416	5.1b		**¶97x0037**
BJI	X	01 06 05 48.2	46.12N	136.15E	423	5.0b		
NEIC	X	01 06 05 48.3	46.22N	136.09E	416	5.2b		
JMA	X	01 06 05 48.7±.4	45.97N±.03	136.41E±.07	448			
EIDC	X	01 06 05 50.2	46.2N	136.1E	418	4.6b		
HRVD	X	01 06 05 59.1±.2	47.32N±.02	135.73E±.02	408±1.1			

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s5,c5; Mantle waves: s2,c2; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}0.27±.23; $M_{\theta\theta}$−1.58±.30; $M_{\phi\phi}$1.31±.32; $M_{r\theta}$−0.69±.21; $M_{r\phi}$−0.18±.20; $M_{\theta\phi}$−1.38±.37. Principal Axes: T 1.86,Plg3°,Azm248°; N 0.46,Plg74°,Azm145°; P −2.33,Plg15°,Azm339°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S22°,δ77°,λ−8°. NP2:ϕ_S114°,δ82°,λ−167°.

(177) Kermadec Islands region

ISC	**X**	**08 10 47 49.4**±.47	**29.15S**±.048	**178.35E**±.043	**607**±7.2	**5.5b**	**483**	**3-172**
BJI	X	08 10 47 49.4	28.80S	178.75E	613	5.7b		**¶97x1397**
NEIC	X	08 10 47 49.9	29.25S	178.36E	617	5.5b		
EIDC	X	08 10 47 52.5	29.1S	178.3E	624	4.8b		
HRVD	X	08 10 47 54.1±.2	29.01S±.03	178.41E±.02	613±1.6			

NEIC Mw5.7(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c74; Mantle waves: s5,c7; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.25±.05; $M_{\theta\theta}$−0.59±.09; $M_{\phi\phi}$1.84±.09; $M_{r\theta}$−0.58±.08; $M_{r\phi}$−2.57±.07; $M_{\theta\phi}$−1.68±.07. Principal Axes: T 3.65,Plg25°,Azm72°; N −0.26,Plg33°,Azm179°; P −3.39,Plg47°,Azm312°. Best double couple: $M_0$3.5×10^{17}Nm, NP1:ϕ_S116°,δ36°,λ−158°. NP2:ϕ_S7°,δ77°,λ−57°.

(181) Fiji region

ISC	**X**	**17 15 02 00.4**±.83	**21.02S**±.045	**178.79W**±.035	**583**±11	**5.3b**	**572**	**8-167**
EIDC	X	17 15 01 58.6	20.9S	178.6W	552	4.9b		**¶97x3012**
BJI	X	17 15 02 00.2	20.60S	178.46W	581	5.3b		
NEIC	X	17 15 02 00.4	20.89S	178.84W	579	5.3b		
HRVD	X	17 15 02 05.6±.1	20.94S±.01	178.58W±.01	589±.8			
MOS	X	17 15 02 10.1	20.5S	179.6W	659	5.5b		

NEIC Mw6.0(GS), Me5.1(GS).

NEIC Mw 6.0 (HRV).

NEIC Radiated energy from the P−wave first−motion solution: 1.0±0.2×10^{12}Nm/9

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S45°,δ85°,λ−90°. NP2:ϕ_S225°,δ5°,λ−90°. Principal axes: T Plg40°,Azm135°; P Plg50°,Azm315°. Depth from broadband displacement seismograms.

NEIC Moment tensor solution: s18, scale 10^{17}Nm; M_{rr}−3.00; $M_{\theta\theta}$3.30; $M_{\phi\phi}$−0.30; $M_{r\theta}$−8.40; $M_{r\phi}$−9.10; $M_{\theta\phi}$−0.20. Depth 580km; Principal axes: T 11.9,Plg39°,Azm143°; N 1.8,Plg8°, Azm46°; P −13.6,Plg49°,Azm306°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S285°,δ10°, λ−30°. NP2:ϕ_S45°,δ85°,λ−98°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c117; Mantle waves: s21,c25; Half duration: 2s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.41±.10; $M_{\theta\theta}$1.56±.14; $M_{\phi\phi}$−0.15±.16; $M_{r\theta}$−7.90±.13; $M_{r\phi}$−8.97±.13; $M_{\theta\phi}$−0.09±.14. Principal Axes: T 11.6,Plg43°,Azm136°; N 0.9,Plg4°,Azm42°; P −12.5,Plg47°,Azm308°. Best double couple: $M_0$1.2×10^{18}Nm, NP1:ϕ_S282°,δ5°,λ−30°. NP2:ϕ_S42°,δ88°,λ−94°.

(181) Fiji region

ISC	**X**	**25 05 18 29**±1.0	**17.70S**±.052	**178.84W**±.050	**513**±13	**5.0b**	**279**	**8-170**
EIDC	X	25 05 18 29.9	17.7S	178.8W	514	4.4b		**¶97x4278**
NEIC	X	25 05 18 30.1	17.65S	178.88W	531	5.0b		
BJI	X	25 05 18 31.1	17.34S	178.36W	544	5.0b		

(181) Fiji region

ISC	**X**	**29 13 22 25**±1.8	**17.51S**±.076	**179.04W**±.092	**557**±20	**5.0b**	**120**	**8-153**
NEIC	X	29 13 22 23.3	17.42S	179.06W	541	5.3b		**¶97x4916**
BJI	X	29 13 22 24.0	16.62S	178.99W	515	4.7b		
EIDC	X	29 13 22 24.6	17.3S	179.0W	540	4.0b		

(181) Fiji region

ISC	**XI**	**03 05 37 50.2**±.96	**20.39S**±.065	**178.76W**±.050	**614**±13	**5.1b**	**325**	**9-167**
NEIC	XI	03 05 37 48.7	20.40S	178.74W	600	5.1b		**¶97xi0412**
BJI	XI	03 05 37 49.6	20.19S	178.49W	613	5.2b		
EIDC	XI	03 05 37 52.2	20.4S	178.8W	617	4.5b		
HRVD	XI	03 05 37 55.4±.3	20.35S±.03	178.80W±.04	620±2.3			

NEIC Mw5.6(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c49; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.21±.07; $M_{\theta\theta}$0.28±.11; $M_{\phi\phi}$0.94±.12; $M_{r\theta}$−2.13±.09; $M_{r\phi}$−1.48±.10; $M_{\theta\phi}$0.92±.12. Principal Axes: T 3.05,Plg31°,Azm134°; N −0.19,Plg11°,Azm231°; P −2.86,Plg57°,Azm338°. Best double couple: $M_0$3.0×10^{17}Nm, NP1:ϕ_S192°,δ17°,λ−130°. NP2:ϕ_S53°,δ77°,λ−79°.

(181) Fiji region

ISC	**XI**	**04 10 40 44**±1.3	**20.97S**±.079	**179.23W**±.060	**633**±16	**5.0b**	**250**	**10-167**
BJI	XI	04 10 40 42.4	20.59S	179.07W	596	4.8b		**¶97xi0619**
NEIC	XI	04 10 40 43.0	21.03S	179.20W	621	5.1b		
EIDC	XI	04 10 40 46.8	20.9S	179.2W	647	4.3b		
HRVD	XI	04 10 40 47.3±.4	20.90S±.05	179.27W±.03	620±3.0			

NEIC Mw5.6(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c35; Mantle waves: s3,c4; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.25±.07; $M_{\theta\theta}$1.27±.10; $M_{\phi\phi}$−1.51±.11; $M_{r\theta}$0.80±.10; $M_{r\phi}$−1.57±.09; $M_{\theta\phi}$−1.44±.09. Principal Axes: T 2.71,Plg31°,Azm31°; N −0.06,Plg48°,Azm165°; P −2.64,Plg24°,Azm285°. Best double couple: $M_0$2.7×10^{17}Nm, NP1:ϕ_S66°,δ49°,λ174°. NP2:ϕ_S160°,δ86°,λ41°.

(173) Tonga

ISC	**XI**	**15 10 56 42**±1.1	**16.22S**±.074	**175.98W**±.059	**352**±11	**5.0b**	**208**	**5-153**
MOS	XI	15 10 56 31.9	16.1S	176.4W	250	5.5b		**¶97xi2462**
EIDC	XI	15 10 56 41.2	16.2S	176.1W	327	4.5b		
BJI	XI	15 10 56 43.2	15.38S	175.98W	334	4.6b		
NEIC	XI	15 10 56 43.4	16.17S	176.06W	363	5.1b		
HRVD	XI	15 10 56 48.6±.4	16.16S±.03	175.92W±.03	379±1.7			

NEIC Mw5.6(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c51; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.21±.06; $M_{\theta\theta}$1.18±.10; $M_{\phi\phi}$−0.96±.11; $M_{r\theta}$0.79±.08; $M_{r\phi}$−0.72±.09; $M_{\theta\phi}$2.66±.09. Principal Axes: T 3.00,Plg5°,Azm327°; N 0.13, Plg70°,Azm70°; P −3.13,Plg19°,Azm235°. Best double couple: $M_0$3.1×10^{17}Nm, NP1:ϕ_S13°, δ73°,λ−169°. NP2:ϕ_S279°,δ80°,λ−17°.

(663) Sea of Okhotsk

ISC	**XI**	**26 14 46 38.9**±.28	**47.19N**±.042	**145.92E**±.056	**399**±3.8	**4.5b**	**148**	**2-146**
BJI	XI	26 14 46 38.0	47.38N	145.89E	396	4.8b		**¶97xi4706**
NEIC	XI	26 14 46 38.8	47.28N	145.85E	396	4.6b		
SKHL	XI	26 14 46 39.0	47.2N±.10	145.9E±.18	406±2			
MOS	XI	26 14 46 39.3	47.3N	145.9E	405	5.0b		
JMA	XI	26 14 46 39.5±.3	46.72N±.03	146.10E±.05	437	4.9		
EIDC	XI	26 14 46 40.1	47.3N	145.8E	397	4.1b		

(663) Sea of Okhotsk

ISC	**XI**	**28 06 10 47.5**±.24	**47.11N**±.028	**145.60E**±.035	**391**±2.9	**5.2b**	**536**	**2-153**
BJI	XI	28 06 10 46.8	47.25N	145.59E	394	5.6b		**¶97xi5024**
JMA	XI	28 06 10 46.9±.3	46.73N±.03	145.86E±.04	438±3	5.6		
SKHL	XI	28 06 10 47.0	47.0N±.25	145.7E±.35	403±7			
NEIC	XI	28 06 10 47.5	47.14N	145.60E	394	5.4b		
MOS	XI	28 06 10 48.6	47.1N	145.7E	407	5.7b		
EIDC	XI	28 06 10 49.6	47.3N	145.5E	402	4.6b		
HRVD	XI	28 06 10 50.8±.3	46.96N±.03	145.81E±.05	401±1.7			

NEIC Mw5.5(HRV).

NEIC Felt I=II J1 in southeastern Hokkaido. Also felt II J1 in northern Aomori Prefecture,

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	*n*	Δ-Rng °

Honshu.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c58; Half duration: 1ŝ4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.17±.05; $M_{\theta\theta}$0.61±.08; $M_{\phi\phi}$0.56±.08; $M_{r\theta}$−0.81±.08; $M_{r\phi}$−1.72±.07; $M_{\theta\phi}$0.22±.06. Principal Axes: T 1.92,Plg31°,Azm121°; N 0.42, Plg4°,Azm29°; P −2.35,Plg58°,Azm292°. Best double couple: $M_0$2.1×10^{17}Nm, NP1:ϕ_S225°, δ14°,λ−73°. NP2:ϕ_S28°,δ77°,λ−94°.

(118) Peru-Bolivia border region

ISC	**XI**	**28 22 53 42.6**±.31	**13.77S**±.027	**68.80W**±.030	**600**±4.4	**6.3b**	**765**	**3-175**
BJI	XI	28 22 53 41.4	13.77S	68.81W	584			**¶97xi5151**
NEIC	XI	28 22 53 41.5	13.74S	68.79W	586	6.4b		
MOS	XI	28 22 53 42.6	13.8S	68.9W	600	6.7b		
HRVD	XI	28 22 53 46.8±.1	13.70S±.01	68.90W±.01	601±.6			

NEIC Mw6.7(HRV), Me6.5(GS).

NEIC Mw 6.6 (GS). Mb 6.3 (BRK).

NEIC Radiated energy from the P−wave first−motion solution: 1.3±0.3×10^{14}Nm/19

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S118°,δ87°,λ−90°. NP2:ϕ_S298°,δ3°,λ−90°. Principal axes: T Plg42°,Azm208°; P Plg48°,Azm28°. Depth from broadband displacement seismograms.

NEIC Moment tensor solution: s47, scale 10^{18}Nm; M_{rr}−0.40; $M_{\theta\theta}$−0.40; $M_{\phi\phi}$0.80; $M_{r\theta}$−9.20; $M_{r\phi}$4.10; $M_{\theta\phi}$−0.80. Depth 589km; Principal axes: T 10.1,Plg44°,Azm209°; N 0.0,Plg5°, Azm114°; P −10.1,Plg46°,Azm18°. Best double couple: $M_0$1.0×10^{19}Nm; NP1:ϕ_S12°,δ6°, λ−12°. NP2:ϕ_S114°,δ89°,λ−95°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c106; Mantle waves: s41,c84; Half duration: 5ŝ0. Moment tensor: Scale 10^{18}Nm; M_{rr}−1.11±.05; $M_{\theta\theta}$1.89±.06; $M_{\phi\phi}$−0.78±.07; $M_{r\theta}$−9.09±.05; $M_{r\phi}$5.20±.06; $M_{\theta\phi}$1.14±.06. Principal Axes: T 10.2,Plg42°,Azm199°; N 0.8,Plg9°,Azm298°; P −11.0,Plg46°,Azm38°. Best double couple: $M_0$1.1×10^{19}Nm, NP1:ϕ_S220°,δ10°,λ−168°. NP2:ϕ_S118°,δ88°,λ−81°.

(181) Fiji region

ISC	**XI**	**29 02 42 27**±1.3	**20.99S**±.057	**178.75W**±.049	**573**±17	**5.2b**	**413**	**13-167**
EIDC	XI	29 02 42 15.1	20.9S	179.2W	447	4.5b		**¶97xi5179**
NEIC	XI	29 02 42 27.3	21.03S	178.76W	581	5.2b		
BJI	XI	29 02 42 27.5	20.62S	178.45W	583	5.3b		
MOS	XI	29 02 42 29.2	20.9S	178.9W	593	5.5b		
HRVD	XI	29 02 42 32.5±.6	20.79S±.07	178.98W±.07	581±4.0			

NEIC Mw5.7(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c27; Half duration: 1ŝ6. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.89±.16; $M_{\theta\theta}$0.26±.25; $M_{\phi\phi}$1.63±.28; $M_{r\theta}$−1.71±.29; $M_{r\phi}$−2.43±.24; $M_{\theta\phi}$−1.42±.26. Principal Axes: T 2.99,Plg21°,Azm75°; N 1.20, Plg30°,Azm178°; P −4.19,Plg52°,Azm315°. Best double couple: $M_0$3.6×10^{17}Nm, NP1: ϕ_S124°,δ36°,λ−149°. NP2:ϕ_S9°,δ73°,λ−58°.

(259) Mindanao

ISC	**XII**	**02 11 47 48.2**±.26	**6.72N**±.025	**123.57E**±.037	**611**±4.0	**5.2b**	**224**	**1-168**
KLM	XII	02 11 47 47	6.7N	123.5E	596	4.8L		**¶97xii0234**
BJI	XII	02 11 47 47.0	6.70N	123.60E	593	5.7b		
NEIC	XII	02 11 47 47.1	6.76N	123.56E	596	5.3b		
MOS	XII	02 11 47 48.5	6.7N	123.6E	619	5.6b		
HRVD	XII	02 11 47 48.8±.7	6.79N±.06	123.58E±.09	592±5.5			
EIDC	XII	02 11 47 49.1±.90	6.7N	123.7E	607±8.8	4.6b		
KLM	MB5.3							

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c21; Half duration: 1ŝ2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.87±.13; $M_{\theta\theta}$0.41±.19; $M_{\phi\phi}$0.47±.24; $M_{r\theta}$−0.21±.17; $M_{r\phi}$−1.81±.18; $M_{\theta\phi}$0.67±.19. Principal Axes: T 2.01,Plg31°,Azm117°; N 0.14, Plg17°,Azm16°; P −2.15,Plg54°,Azm262°. Best double couple: $M_0$2.1×10^{17}Nm, NP1: ϕ_S248°,δ21°,λ−36°. NP2:ϕ_S12°,δ78°,λ−107°.

EIDC Error ellipse is semi−major=13.0km semi−minor=6.5km azimuth=78

(181) Fiji region

ISC	**XII**	**13 04 39 07**±1.6	**18.15S**±.070	**178.20W**±.062	**588**±21	**5.2b**	**266**	**7-167**
NEIC	XII	13 04 39 06.5	18.09S	178.18W	582	5.3b		**¶97xii2888**
BJI	XII	13 04 39 06.6	17.73S	177.48W	596	5.1b		
EIDC	XII	13 04 39 07.8±.70	18.0S	178.1W	584±7.2	4.4b		

EIDC Error ellipse is semi−major=16.9km semi−minor=10.9km azimuth=164

(663) Sea of Okhotsk

ISC	**XII**	**20 13 26 31.1**±.27	**53.43N**±.029	**152.74E**±.030	**605**±3.9	**5.1b**	**580**	**3-161**
MOS	XII	20 13 26 31.0	53.4N	152.8E	605	5.5b		**¶97xii4121**
SKHL	XII	20 13 26 31.0	53.1N±.16	153.1E±.28	611±12			
BJI	XII	20 13 26 31.5	53.44N	152.79E	627	5.5b		
NEIC	XII	20 13 26 31.5	53.42N	152.76E	614	5.1b		
EIDC	XII	20 13 26 32.9±.75	53.4N	152.8E	607±7.3	4.6b		
HRVD	XII	20 13 26 34.9±.1	53.40N±.01	152.71E±.02	623±1.0			

NEIC Mw5.9(GS), Mw5.9(HRV).

NEIC Moment tensor solution: s15, scale 10^{17}Nm; M_{rr}−8.84; $M_{\theta\theta}$7.13; $M_{\phi\phi}$1.68; $M_{r\theta}$0.42; $M_{r\phi}$−3.32; $M_{\theta\phi}$−1.01. Depth 612km; Principal axes: T 7.38,Plg4°,Azm12°; N 2.42,Plg16°, Azm103°; P −9.80,Plg74°,Azm269°. Best double couple: $M_0$8.6×10^{17}Nm; NP1:ϕ_S86°,δ43°, λ−113°. NP2:ϕ_S297°,δ51°,λ−70°.

EIDC Error ellipse is semi−major=9.2km semi−minor=6.6km azimuth=128

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c105; Mantle waves: s19,c24; Half duration: 2ŝ2. Moment tensor: Scale 10^{17}Nm; M_{rr}−7.91±.09; $M_{\theta\theta}$8.22±.13; $M_{\phi\phi}$−0.30±.14; $M_{r\theta}$−0.20±.14; $M_{r\phi}$−2.73±.15; $M_{\theta\phi}$−1.09±.13. Principal Axes: T 8.36,Plg1°,Azm7°; N 0.45,Plg18°,Azm98°; P −8.81,Plg72°,Azm276°. Best double couple: $M_0$8.6×10^{17}Nm, NP1:ϕ_S80°,δ47°,λ−115°. NP2:ϕ_S294°,δ48°,λ−65°.

(171) South of Fiji

ISC	**XII**	**26 05 34 21.5**±.90	**22.27S**±.045	**179.61W**±.038	**546**±12	**5.3b**	**509**	**11-164**
BJI	XII	26 05 34 24.5	21.78S	179.24W	582	5.6b		**¶97xii5059**
NEIC	XII	26 05 34 24.7	22.34S	179.69W	588	5.3b		
EIDC	XII	26 05 34 27.1±.37	22.3S	179.7W	595±3.8	4.8b		
HRVD	XII	26 05 34 29.2±.2	22.34S±.01	179.46W±.02	600±1.1			

NEIC Mw5.9(GS), Mw5.9(HRV).

NEIC Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}−0.80; $M_{\theta\theta}$−2.52; $M_{\phi\phi}$3.32; $M_{r\theta}$−2.99; $M_{r\phi}$−5.87; $M_{\theta\phi}$−2.13. Depth 579km; Principal axes: T 7.48,Plg35°,Azm90°; N 0.13,Plg29°, Azm203°; P −7.61,Plg41°,Azm321°. Best double couple: $M_0$7.5×10^{17}Nm; NP1:ϕ_S121°,δ29°, λ−173°. NP2:ϕ_S24°,δ87°,λ−61°.

EIDC Error ellipse is semi−major=13.4km semi−minor=10.5km azimuth=161

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c77; Mantle waves: s6,c9; Half duration: 2ŝ2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.52±.08; $M_{\theta\theta}$−3.19±.12; $M_{\phi\phi}$3.72±.14; $M_{r\theta}$−3.41±.12; $M_{r\phi}$−5.03±.11; $M_{\theta\phi}$−3.54±.11. Principal Axes: T 7.19,Plg30°,Azm82°; N 1.19,Plg40°,Azm201°; P −8.37,Plg35°,Azm327°. Best double couple: $M_0$7.8×10^{17}Nm, NP1:ϕ_S117°,δ40°,λ−175°. NP2:ϕ_S23°,δ87°,λ−50°.

FELT AND DAMAGING EARTHQUAKES

(163) Cook Strait, New Zealand

ISC	**VII**	**01 02 58 23.4**±.41	**41.25S**±.048	**174.44E**±.087	**57**±8.4	**3.9b**	**30**	**0-152**
EIDC	VII	01 02 58 00.2	41.8S	176.9E	0	4.1b		¶97vii0018
WEL	VII	01 02 58 25.0	41.13S	174.52E	43	4.2L		
WEL	Felt I=IV MM Paraparaumu to Blenheim							

(224) Hokkaido region

ISC	**VII**	**01 03 40 07.5**±.31	**42.51N**±.019	**144.66E**±.033	**71**±2.9	**5.0b**	**486**	**0-156**
BJI	VII	01 03 40 06.8	42.74N	144.71E	68	5.1b,4.2s		¶97vii0024
MOS	VII	01 03 40 06.9	42.7N	144.7E	61	5.7b		
HRVD	VII	01 03 40 07.3±.1	42.41N±.01	144.46E±.01	82±1.1			
NEIC	VII	01 03 40 07.3	42.66N	144.60E	65	5.1b		
EIDC	VII	01 03 40 08.5	42.5N	144.7E	64	4.8b,4.1s		
JMA	VII	01 03 40 08.6±.2	42.64N±.01	144.65E±.02	73±3	5.1		

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.89±.36; $M_{\theta\theta}$1.89±.68; $M_{\phi\phi}$0.00±.67; $M_{r\theta}$5.67±.40; $M_{r\phi}$−0.15±.43; $M_{\theta\phi}$0.63±.52. Principal Axes: T 6.00,Plg35°,Azm355°; N 0.01, Plg6°,Azm89°; P −6.01,Plg54°,Azm188°. Best double couple: $M_0$6.0×10^{16}Nm, NP1:ϕ_S57°, δ11°,λ−123°. NP2:ϕ_S270°,δ81°,λ−84°.

NEIC Mw5.2(HRV).
JMA Felt I=III J1

(227) Honshū

ISC	**VII**	**01 09 00 17.4**±.23	**36.05N**±.021	**139.92E**±.033	**60**±3.9	**3.8b**	**118**	**0-148**
NEIC	VII	01 09 00 16.1	36.08N	139.84E	46			¶97vii0053
JMA	VII	01 09 00 17.5±.1	36.07N±.01	139.87E±.01	53±2	3.9		
EIDC	VII	01 09 00 17.6	36.1N	139.9E	42	3.7b,3.3L		

NEIC Less reliable solution.
JMA Felt I=III J1

(224) Hokkaido region

ISC	**VII**	**01 14 27 47.2**±.37	**42.24N**±.030	**143.09E**±.062	**75**±4.0	**3.9b**	**92**	**0-152**
MOS	VII	01 14 27 46.2	42.3N	143.3E	70	5.0b		¶97vii0102
JMA	VII	01 14 27 47.8±.3	42.28N±.02	143.06E±.02	62±3	4.1		
NEIC	VII	01 14 27 47.9	42.36N	142.85E	79	4.0b		
BJI	VII	01 14 27 48.2	42.22N	142.97E	86	4.5b		
EIDC	VII	01 14 27 49.9	42.4N	142.8E	82	3.6b,3.2s		

JMA Felt I=II J1
NEIC Less reliable solution.

(244) Taiwan

TAP	**VII**	**01 19 58 40.9**	**24.44N**	**121.75E**	**7**	**2.0L**		**¶97vii0135**
TAP	Felt I=III J							

(48) Lower California

ISC	**VII**	**02 00 03 23.6**±.90	**31.26N**±.080	**115.65W**±.050	**6**	**4.1b**	**79**	**1-120**
EIDC	VII	02 00 03 22.7	31.2N	115.8W	0	4.2b,3.8L		¶97vii0158
NEIC	VII	02 00 03 23.0	31.28N	115.47W	6	4.0b		
ECX	VII	02 00 03 24.4	31.30N	115.56W	17	4.3D		

NEIC M_L4.3(PAS), M_D4.3(ECX). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt San Matias

(378) Pyrenees

ISC	**VII**	**02 03 20 02.8**±.53	**42.72N**±.025	**0.71E**±.024	**14**±4.4	3.5b	**104**	**0-24**
NEIC	VII	02 03 20 02.0	42.71N	0.73E	10			¶97vii0174
EIDC	VII	02 03 20 02.1	42.6N	0.5E	0	4.0L,3.6b		
FBR	VII	02 03 20 02.7	42.66N	0.67E	3	3.5D		
STR	VII	02 03 20 02.9	42.63N	0.67E	0	3.9L		
MDD	VII	02 03 20 03.7	42.69N	0.69E	1	3.4		
LDG	VII	02 03 20 05.4	42.7N	0.6E		4.0L		

PIST Felt I=III−IV MSK in the eastern Pyrenees, II in north east Spain
FBR Felt I=IV MSK Vielha
MDD Felt I=IV MSK at northeast Benasque

(244) Taiwan

ISC	**VII**	**02 03 29 09**±1.7	**23.2N**±.17	**120.10E**±.099	**17**		**6**	**1-1**
TAP	VII	02 03 29 08.1	23.19N	120.09E	17	3.1L		¶97vii0175
TAP	Felt I=IV J							

(385) Straits of Gibraltar

ISC	**VII**	**02 09 38 42.2**±.61	**36.49N**±.028	**3.16W**±.027	**16**±4.8	**4.5b,4.1s**	**202**	**0-151**
STR	VII	02 09 38 35.7	35.75N	3.14W	5	4.3L		¶97vii0213
MOS	VII	02 09 38 38.4	36.2N	3.1W	10	5.1b		
NEIC	VII	02 09 38 40.7	36.44N	3.10W	10	4.6b,4.3s		
EIDC	VII	02 09 38 40.9	36.5N	3.2W	0	4.4b,3.9s		
MDD	VII	02 09 38 42.5	36.39N	3.17W	4	4.4		
LIS	VII	02 09 38 43	36.40N	3.17W		4.7L		
BJI	VII	02 09 38 43.3	37.28N	2.81W	5	4.9b,5.2s		
RBA	VII	02 09 38 44.6	36.48N	3.12W	30	4.2D		
LDG	VII	02 09 38 49.4	37.0N	3.4W		4.4L		

NEIC mbLg4.6(MDD)
NEIC Felt I=IV MM (after STS)
MDD Felt I=IV MSK at southwest Adra

(385) Straits of Gibraltar

ISC	**VII**	**02 12 53 07.2**±.77	**36.49N**±.032	**3.18W**±.032	**25**±6.6	**4.1b,3.6s**	**114**	**0-151**
NEIC	VII	02 12 53 05.1	36.38N	3.22W	10	4.0b		¶97vii0243
MDD	VII	02 12 53 07.2	36.44N	3.26W	2	4.3		
LIS	VII	02 12 53 08	36.38N	3.25W		4.6L		
EIDC	VII	02 12 53 08.7	36.5N	3.1W	26	4.0b,3.7s		
RBA	VII	02 12 53 09.2	36.44N	2.96W	30	4.2D		
LDG	VII	02 12 53 11.3	36.9N	4.0W		4.4L		
STR	VII	02 12 53 11.4	36.90N	4.00W	2	3.1L		

NEIC mbLg4.4(MDD)
MDD Felt I=IV−V MSK at south Adra

(405) Azores

ISC	**VII**	**02 13 47 16**±1.6	**38.1N**±.17	**26.8W**±.11	**22**±17	3.5b	**20**	**1-56**
ADH	VII	02 13 47 17.2	38.33N	26.76W		3.4D		¶97vii0250

ADH Felt on Terceira I=II MM at Angra do Heroisma, Praia da Victoria

(385) Straits of Gibraltar

ISC	**VII**	**02 17 33 07.3**±.79	**36.50N**±.035	**3.11W**±.036	**26**±7.0	**3.8b,**4.0s	**94**	**0-151**
EIDC	VII	02 17 33 04.2	36.2N	3.3W	0	3.8b,3.4s		¶97vii0271
NEIC	VII	02 17 33 05.7	36.45N	3.18W	10	4.0b		
LDG	VII	02 17 33 05.9	36.4N	3.4W		4.2L		
LIS	VII	02 17 33 07	36.37N	3.23W		4.3L		
MDD	VII	02 17 33 07.2	36.39N	3.21W	2	4.1		
RBA	VII	02 17 33 11.9	36.26N	3.18W	30	3.9D		

NEIC mbLg4.2(MDD)
MDD Felt I=IV MSK at southwest Adra

(162) South Island, New Zealand

ISC	**VII**	**02 20 29 12.1**±.84	**45.9S**±.11	**168.3E**±.13	**23**±19		**9**	**0-4**
WEL	VII	02 20 29 12.4	45.93S	168.24E	12	4.0L		¶97vii0298

WEL Felt strongly at Ohai.

(377) Spain

ISC	**VII**	**02 23 43 52.5**±.98	**42.79N**±.070	**7.1W**±.11	**21**±14		**10**	**0-3**
NEIC	VII	02 23 43 51.5	42.78N	7.08W	10			¶97vii0324
LIS	VII	02 23 43 53	42.77N	7.15W		2.7L		
MDD	VII	02 23 43 53.2	42.77N	7.16W	10	3.3		

NEIC mbLg3.3(MDD), Single network solution.
MDD Felt I=II MSK at Sarria−Becerrea

(235) Kyūshū

ISC	**VII**	**03 02 47 31.4**±.61	**31.82N**±.046	**130.23E**±.055	**10**		**27**	**0-4**
JMA	VII	03 02 47 31.4±.0	31.86N±.00	130.29E±.01	10±2	3.2		¶97vii0345
JMA	Felt I=II J1							

(1) Central Alaska

ISC	**VII**	**03 03 53 45.0**±.86	**63.41N**±.032	**151.31W**±.099	**20**±9.0		**39**	**0-17**
NEIC	VII	03 03 53 45.0	63.35N	151.32W	13			¶97vii0353

NEIC M_L3.8(PMR), M_L3.5(AEIC). Felt, After AEIC.
NEIC Felt at Kantishna.

(39) Central California

ISC	**VII**	**03 17 49 36.2**±.79	**35.77N**±.026	**117.61W**±.035	**0**±6.5	**3.7b**	**62**	**0-122**
EIDC	VII	03 17 49 36.4	35.7N	117.8W	0	3.6L,3.7b		¶97vii0433
NEIC	VII	03 17 49 37.5	35.79N	117.64W	5	4.0b		

NEIC M_L4.5(BRK), Mw4.1(BRK). Felt I=IV MM, After PAS.
NEIC ML 4.3 (PAS). Felt I=IV MM at China Lake. Also felt in the Ridgecrest area.

(385) Straits of Gibraltar

ISC	**VII**	**03 20 23 15**±1.0	**36.64N**±.051	**3.25W**±.044	**31**±7.7	**3.5b**	**81**	**0-81**
LIS	VII	03 20 23 13	36.38N	3.18W		4.1L		¶97vii0448
MDD	VII	03 20 23 13.6	36.47N	3.22W	1	4.1		
LDG	VII	03 20 23 14.3	36.8N	4.8W		3.8L		
NEIC	VII	03 20 23 15.3	36.63N	3.29W	33	4.5b		
EIDC	VII	03 20 23 16.4	36.6N	3.4W	25	3.2b,4.0L		
STR	VII	03 20 23 56.7	39.34N	1.55W	10	3.8L		

MDD Felt I=III−IV MSK at south Adra
NEIC mbLg4.1(MDD)

(29) Washington State

ISC	**VII**	**04 10 45 38.1**±.47	**47.73N**±.027	**119.92W**±.034	**8**±4.1		**79**	**0-6**
NEIC	VII	04 10 45 38.7	47.72N	120.02W	6			¶97vii0538

NEIC M_D3.6(SEA), M_L3.3(GS). Felt, After SEA.

(7) Andreanof Islands

ISC	**VII**	**04 11 04 03.4**±.99	**51.41N**±.044	**178.58W**±.037	**43**±8.6	**5.2b,4.4s**	**308**	**1-155**
BJI	VII	04 11 03 59.9	51.33N	178.29W	34	5.4b,4.7s		¶97vii0545
MOS	VII	04 11 04 02.1	51.4N	178.6W	33	5.5b,4.5s		
NEIC	VII	04 11 04 02.1	51.42N	178.58W	33	5.3b,4.4s		
HRVD	VII	04 11 04 05.7±.8	51.42N	178.58W	72±6.5			
EIDC	VII	04 11 04 06.1	51.5N	178.5W	59	4.7b,4.3s		

NEIC Mw5.1(HRV).
NEIC Felt on Adak.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.95±.29; $M_{\theta\theta}$−3.42±.42; $M_{\phi\phi}$0.47±.42; $M_{r\theta}$2.59±.46; $M_{r\phi}$2.88±.66; $M_{\theta\phi}$−3.18±.51. Principal Axes: T 4.88,Plg59°,Azm278°; N 1.75, Plg21°,Azm49°; P −6.64,Plg21°,Azm148°. Best double couple: $M_0$5.8×10^{16}Nm, NP1: ϕ_S270°,δ30°,λ136°. NP2:ϕ_S41°,δ69°,λ67°.

(224) Hokkaido region

ISC	**VII**	**04 14 50 14.8**±.63	**42.41N**±.029	**144.39E**±.090	**69**±6.5	**3.9b**	**72**	**1-70**
JMA	VII	04 14 50 16.2±.2	42.54N±.01	144.28E±.01	64±3	3.9		¶97vii0577
NEIC	VII	04 14 50 17.6	42.50N	143.97E	87	4.0b		
EIDC	VII	04 14 50 18.0	42.5N	144.1E	74	3.6b		

JMA Felt I=II J1
NEIC Less reliable solution.

(405) Azores

ISC	**VII**	**04 18 12 43**±1.3	**38.3N**±.22	**26.9W**±.12	**47**±54		**22**	**0-1**
ADH	VII	04 18 12 45.2	38.27N	26.89W		3.6D		¶97vii0601

ADH Felt on Terceira I=III MM at Porto Judeu, Santa Rita da Praia, Angra do Heroismo, Agualva, II Terra Cha

(244) Taiwan

ISC	**VII**	**04 18 37 31.3**±.54	**23.00N**±.025	**120.80E**±.034	**16**±4.2	**4.9b,4.7s**	**146**	**0-169**
TAP	VII	04 18 37 30.5	23.06N	120.79E	5	5.2L		¶97vii0603
BJI	VII	04 18 37 32.4	23.13N	120.81E	28	5.0L,4.9b		
NEIC	VII	04 18 37 33.3	22.97N	120.93E	33	4.9b,4.7s		
HRVD	VII	04 18 37 34.7±2.7	23.58N±.23	120.52E±.21	33			
EIDC	VII	04 18 37 37.3	23.0N	120.9E	60	4.3b,4.5s		

TAP Felt I=V J, II Alishan, Tainan, Chiayi, Kaohsiung, I Hwalien
BJI Ms4.9
NEIC Mw5.1(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c11; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.82±.49; $M_{\theta\theta}$0.13±.50; $M_{\phi\phi}$2.69±.88; $M_{r\theta}$−3.01±.78; $M_{r\phi}$2.81±1.57; $M_{\theta\phi}$−0.62±.43. Principal Axes: T 4.67,Plg27°,Azm243°; N 0.61,Plg14°,Azm145°; P −5.27,Plg59°,Azm31°. Best double couple: $M_0$5.0×10^{16}Nm, NP1: ϕ_S4°,δ22°,λ−49°. NP2:ϕ_S141°,δ74°,λ−105°.

(244) Taiwan

ISC	**VII**	**04 20 44 09.4**±.55	**23.05N**±.033	**120.75E**±.057	**3**		**19**	**0-2**
TAP	VII	04 20 44 08.7	23.06N	120.80E	3	3.6L		¶97vii0617
TAP	Felt I=II J							

(405) Azores

ISC	**VII**	**05 01 42 37**±1.4	**38.3N**±.25	**26.9W**±.13	**32**±20		**21**	**0-1**
ADH	VII	05 01 42 38.5	38.29N	26.87W		3.5D		¶97vii0659

ADH Felt on Terceira I=II−III MM at Angra do Heroisma and the south east coast

(405) Azores

ISC	**VII**	**05 04 22 54**±1.8	**38.3N**±.27	**26.8W**±.14	**28**±23		**18**	**0-2**
ADH	VII	05 04 22 55.4	38.27N	26.87W		3.4D		¶97vii0675

ADH Felt on Terceria I=II MM at Angra do Heroismo and the south east coast

(230) Near south coast of Honshū

ISC	**VII**	**05 06 27 09.4**±.35	**34.95N**±.027	**138.29E**±.025	**26**±4.3	**3.6b**	**89**	**0-69**
EIDC	VII	05 06 27 05.6	34.9N	138.5E	0	3.6b,3.4L		¶97vii0691
NEIC	VII	05 06 27 07.7	34.81N	138.40E	33			
JMA	VII	05 06 27 09.3±.0	35.01N±.00	138.31E±.00	25±1	3.7		
NEIC	Less reliable solution.							
JMA	Felt I=II J1							

(45) California-Mexico border region

ISC	**VII**	**05 12 42 37**±1.1	**32.70N**±.097	**115.40W**±.068	**23**±8.5		**16**	**0-3**
NEIC	VII	05 12 42 38.3	32.71N	115.42W	20			¶97vii0729
ECX	VII	05 12 42 40.2	32.43N	115.54W	9	3.7D		

NEIC M_L3.5(PAS). Felt, After PAS.
NEIC Felt at Calexico, California and at Mexicali, Baja California.
ECX Felt Calexico

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(244) Taiwan						
ISC	**VII 05 23 57 10**±1.5	**23.77N**±.053	**121.5E**±.11	**4**±12		**14**	**0-2**
TAP	VII 05 23 57 11.1	23.78N	121.46E	13	3.6L		**¶97vii0810**
TAP	Felt						
	(244) Taiwan						
ISC	**VII 06 01 56 37**±1.2	**24.39N**±.074	**121.7E**±.15	**12**±12		**7**	**0-1**
TAP	VII 06 01 56 36.6	24.41N	121.70E	11	2.6L		**¶97vii0823**
TAP	Felt I=IV J						
	(135) Near coast of Central Chile						
ISC	**VII 06 09 54 00**±2.0	**30.05S**±.030	**71.81W**±.049	**14**±12	**5.8b,6.5s**	**399**	**3-176**
EIDC	VII 06 09 53 58.8	30.2S	72.1W	0	5.3b,6.8s		**¶97vii0861**
NEIC	VII 06 09 54 00.7	30.06S	71.87W	19	5.8b,6.5s		
MOS	VII 06 09 54 01.2	29.8S	71.7W	17	5.9b,6.7s		
BJI	VII 06 09 54 01.4	30.00S	71.84W	29	6.9s		
GUC	VII 06 09 54 01.5	30.18S	72.60W	53			
HRVD	VII 06 09 54 09.5±.1	30.22S±.01	72.21W	15			
NEIC	Mw6.8(GS), Me6.1(GS)						
NEIC	Radiated energy from the P−wave first−motion solution: 3.7±0.6×10^{13}Nm/24						
NEIC	Mw 6.8 (HRV). Ms 6.3 (BRK). Felt I=III MM at Coquimbo, La Serena, Ovalle and Vicuna. Mo=4.0×10^{19}Nm (PPT).						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S350°,δ25°,λ90°. NP2:ϕ_S170°,δ65°,λ90°. Principal axes: T Plg70°,Azm80°; P Plg20°,Azm260°. Two events about 3.0 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event.						
NEIC	Moment tensor solution: s55, scale 10^{19}Nm; M_{rr}1.20; $M_{\theta\theta}$−0.43; $M_{\phi\phi}$−0.77; $M_{r\theta}$0.64; $M_{r\phi}$−1.39; $M_{\theta\phi}$0.38. Depth 5km; Principal axes: T 1.98,Plg63°,Azm69°; N −0.19,Plg3°, Azm333°; P −1.79,Plg27°,Azm241°. Best double couple: M$_0$1.9×10^{19}Nm; NP1:ϕ_S323°,δ18°, λ80°. NP2:ϕ_S154°,δ72°,λ93°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s65,c167; Mantle waves: s71,c175; Half duration: 5^{s}0. Moment tensor: Scale 10^{19}Nm; M_{rr}1.32±.00; $M_{\theta\theta}$−0.09±.00; $M_{\phi\phi}$−1.23±.00; $M_{r\theta}$0.06±.02; $M_{r\phi}$−1.45±.02; $M_{\theta\phi}$0.02±.00. Principal Axes: T 1.97,Plg66°,Azm86°; N −0.09,Plg1°,Azm178°; P −1.88,Plg24°,Azm269°. Best double couple: M$_0$1.9×10^{19}Nm, NP1:ϕ_S0°,δ21°,λ92°. NP2:ϕ_S178°,δ69°,λ89°.						
	(93) Belize						
ISC	**VII 06 20 13 37.0**±.23	**16.07N**±.039	**88.09W**±.032	**33**	**5.4b,5.5s**	**343**	**4-148**
EIDC	VII 06 20 13 32.1	16.1N	87.7W	0	4.9b,5.5s		**¶97vii0930**
HRVD	VII 06 20 13 34.0±.1	16.00N±.01	88.00W±.01	15			
NEIC	VII 06 20 13 37.0	16.16N	87.92W	33	5.5b,5.5s		
MOS	VII 06 20 13 39.5	16.3N	88.0W	33	5.6b,5.5s		
BJI	VII 06 20 13 40.0	16.10N	87.90W	33	6.3s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s65,c127; Mantle waves: s5,c6; Half duration: 2^{s}0. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.40±.06; $M_{\theta\theta}$−4.67±.07; $M_{\phi\phi}$5.07±.09; $M_{r\theta}$−1.92±.18; $M_{r\phi}$0.38±.21; $M_{\theta\phi}$3.60±.06. Principal Axes: T 6.27,Plg2°,Azm109°; N 0.21,Plg72°,Azm205°; P −6.48,Plg18°,Azm18°. Best double couple: M$_0$6.4×10^{17}Nm, NP1:ϕ_S155°,δ76°,λ−169°. NP2:ϕ_S62°,δ79°,λ−14°.						
NEIC	Mw6.1(GS), Mw5.8(HRV)						
NEIC	Felt in the San Pedro Sula area, Honduras and in the Dangriga area, Belize.						
NEIC	Moment tensor solution: s25, scale 10^{18}Nm; M_{rr}0.13; $M_{\theta\theta}$−1.50; $M_{\phi\phi}$1.38; $M_{r\theta}$−0.24; $M_{r\phi}$0.39; $M_{\theta\phi}$0.82. Depth 37km; Principal axes: T 1.66,Plg12°,Azm284°; N 0.12,Plg74°, Azm145°; P −1.78,Plg10°,Azm16°. Best double couple: M$_0$1.7×10^{18}Nm; NP1:ϕ_S60°,δ74°, λ1°. NP2:ϕ_S330°,δ89°,λ164°.						
	(405) Azores						
ISC	**VII 07 06 54 30.9**±.92	**38.10N**±.084	**26.95W**±.065	**16**±7.8	**3.7b**	**23**	**1-93**
NEIC	VII 07 06 54 30.2	38.10N	27.01W	10	3.6b		**¶97vii1005**
EIDC	VII 07 06 54 30.9	38.2N	27.0W	0	3.4b,3.2s		
ADH	VII 07 06 54 33.8	38.25N	26.88W		3.4D		
NEIC	Less reliable solution.						
ADH	Felt on Terceira I=II−III MM at Angra do Heroismo						
	(405) Azores						
ISC	**VII 07 19 39 44**±1.9	**38.20N**±.080	**26.87W**±.064	**11**±13	**4.0b**,3.9s	**25**	**1-88**
NEIC	VII 07 19 39 44.2	38.30N	26.82W	10	4.1b		**¶97vii1083**
EIDC	VII 07 19 39 44.5	38.3N	26.8W	0	3.9b,3.8s		
ADH	VII 07 19 39 46.9	38.22N	26.92W		3.8D		
NEIC	Less reliable solution.						
ADH	Felt on Terceira I=III MM at Angra do Heroismo, Praia da Victoria, Sao Bartolomeu, Porto Judeu; on Sao Miguel III at Mosteiros, Candelaria, II Ponta Delgada						
	(405) Azores						
ISC	**VII 07 20 07 17.0**±.75	**38.04N**±.085	**27.01W**±.076	**0**	**3.8b**	**16**	**1-67**
EIDC	VII 07 20 07 12.9	37.5N	25.9W	0	3.6b		**¶97vii1086**
ADH	VII 07 20 07 21.6	38.25N	26.92W		3.3D		
ADH	Felt on Terceira I=II MM at Angra do Heroismo						
	(405) Azores						
ISC	**VII 08 02 55 31.8**±.82	**38.3N**±.18	**26.7W**±.15	**0**		**11**	**1-2**
ADH	VII 08 02 55 34.4	38.21N	26.89W		3.2D		**¶97vii1132**
ADH	Felt on Terceira I=II MM at Angra do Heroismo						
	(243) Taiwan region						
ISC	**VII 08 03 59 31**±1.0	**22.82N**±.059	**121.4E**±.16	**20**±18		**11**	**0-2**
TAP	VII 08 03 59 30.6	22.82N	121.37E	15	3.5L		**¶97vii1138**
TAP	Felt I=II J Chengkung						
	(377) Spain						
ISC	**VII 08 04 21 36**±1.9	**42.82N**±.093	**7.2W**±.24	**10**		**4**	**0-1**
NEIC	VII 08 04 21 35.6	42.83N	7.15W	10			**¶97vii1139**
MDD	VII 08 04 21 36.9	42.82N	7.22W	5	3.1		
ISC	Poorly determined						
NEIC	mbLg3.1(MDD). Poor solution.						
MDD	Felt I=II MSK at Sarria−Becerrea						
	(244) Taiwan						
ISC	**VII 08 09 10 49**±2.1	**24.3N**±.11	**121.8E**±.22	**8**±15		**6**	**0-1**
TAP	VII 08 09 10 48.2	24.34N	121.81E	12	2.7L		**¶97vii1165**
TAP	Felt I=III J						
	(7) Andreanof Islands						
ISC	**VII 08 12 11 15**±1.5	**51.38N**±.035	**178.58W**±.031	**31**±11	**5.4b,5.4s**	**416**	**1-160**
BJI	VII 08 12 11 14.4	51.36N	178.60W	34	5.7b,5.6s		**¶97vii1185**
NEIC	VII 08 12 11 15.0	51.37N	178.58W	33	5.5b,5.4s		
MOS	VII 08 12 11 15.5	51.5N	178.6W	33	5.7b,5.6s		
EIDC	VII 08 12 11 16.2	51.5N	178.5W	31	5.0b,5.4s		
HRVD	VII 08 12 11 18.6±.1	51.36N±.01	178.29W±.02	36			
NEIC	Mw5.9(HRV), M$_L$5.6(PMR). Felt I=III MM.						
NEIC	Mw 5.8 (GS). Me 5.4 (GS). Felt I=III MM on Adak.						
NEIC	Radiated energy from the P−wave first−motion solution: 2.5±0.6×10^{12}Nm/19						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S240°,δ35°,λ110°. NP2:ϕ_S36°,δ57°,λ77°. Principal axes: T Plg74°,Azm270°; P Plg11°,Azm136°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s57, scale 10^{17}Nm; M_{rr}3.98; $M_{\theta\theta}$−5.29; $M_{\phi\phi}$1.30; $M_{r\theta}$3.42; $M_{r\phi}$2.52; $M_{\theta\phi}$0.13. Depth 22km; Principal axes: T 6.30,Plg59°,Azm300°; N 0.17,Plg23°,Azm76°; P −6.47,Plg19°,Azm174°. Best double couple: M$_0$6.4×10^{17}Nm; NP1:ϕ_S297°,δ33°,λ136°. NP2: ϕ_S66°,δ68°,λ65°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c128; Mantle waves: s7,c10; Half duration: 2^{s}1. Moment tensor: Scale 10^{17}Nm; M_{rr}4.85±.06; $M_{\theta\theta}$−4.64±.08; $M_{\phi\phi}$−0.21±.07; $M_{r\theta}$3.33±.14; $M_{r\phi}$2.70±.13; $M_{\theta\phi}$−2.14±.08. Principal Axes: T 6.52,Plg68°,Azm306°; N 0.44,Plg10°,Azm61°; P −6.95,Plg19°,Azm155°. Best double couple: M$_0$6.7×10^{17}Nm, NP1:ϕ_S261°,δ27°,λ112°. NP2:ϕ_S57°,δ65°,λ79°.						
	(244) Taiwan						
ISC	**VII 08 14 21 41.3**±.81	**24.40N**±.046	**121.7E**±.14	**14**±10		**12**	**0-2**
TAP	VII 08 14 21 40.9	24.43N	121.65E	19	3.0L		**¶97vii1200**
TAP	Felt I=III J						
	(243) Taiwan region						
ISC	**VII 08 16 26 30.6**±.38	**24.02N**±.031	**122.42E**±.031	**43**±4.0	**4.6b,4.6s**	**105**	**1-111**
TAP	VII 08 16 26 27.3	23.92N	122.43E	2	5.1L		**¶97vii1209**
BJI	VII 08 16 26 28.5	24.03N	122.57E	29	4.6L,4.7b		
NEIC	VII 08 16 26 29.6	24.03N	122.33E	33	4.9b		
JMA	VII 08 16 26 29.7±.5	24.14N±.04	122.32E±.03	49±4	4.9		
MOS	VII 08 16 26 29.9	24.1N	122.4E	33	5.0b,4.7s		
EIDC	VII 08 16 26 34.4	24.0N	122.4E	64	4.2b,4.4s		
TAP	Felt I=II J						
BJI	Ms4.6						
	(243) Taiwan region						
ISC	**VII 08 19 05 31**±1.7	**22.27N**±.096	**121.0E**±.14	**8**±8.8		**13**	**0-3**
TAP	VII 08 19 05 30.0	22.25N	121.08E	13	4.1L		**¶97vii1220**
TAP	Felt I=II J Tawu						
	(244) Taiwan						
ISC	**VII 08 19 12 40**±1.3	**24.35N**±.060	**121.8E**±.16	**10**		**9**	**0-1**
TAP	VII 08 19 12 38.9	24.37N	121.77E	10	2.7L		**¶97vii1221**
TAP	Felt I=III J						
	(244) Taiwan						
ISC	**VII 09 02 06 13.2**±.73	**24.32N**±.055	**121.6E**±.11	**33**±8.2		**15**	**0-3**
BJI	VII 09 02 06 11.1	24.49N	121.55E	16	3.3L		**¶97vii1275**
TAP	VII 09 02 06 12.2	24.27N	121.73E	38	4.2L		
TAP	Felt I=III J, I Hwalien						
	(228) Near east coast of Honshū						
ISC	**VII 09 09 36 08.1**±.20	**35.55N**±.017	**140.11E**±.023	**70**±1.7	**5.1b**	**494**	**0-159**
BJI	VII 09 09 36 04.6	35.46N	140.30E	65	5.1b,4.1s		**¶97vii1310**
NEIC	VII 09 09 36 07.0	35.43N	139.99E	64	5.2b		
JMA	VII 09 09 36 07.5±.1	35.55N±.01	140.13E±.01	77±2	4.6		
MOS	VII 09 09 36 08.7	35.5N	140.0E	82	5.4b		
EIDC	VII 09 09 36 08.7	35.5N	140.2E	71	4.6b,3.9s		
HRVD	VII 09 09 36 09.6±.6	35.40N±.07	140.09E±.06	70±6.4			
NEIC	Mw5.1(HRV). Felt I=V MM.						
NEIC	Felt I=III J in Chiba, southern Ibaraki, eastern Kanagawa and northern Saitama Prefectures. Also felt III J in the Tokyo area.						
JMA	Felt I=III J1						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c32; Half duration: 1^{s}0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.05±.25; $M_{\theta\theta}$0.34±.53; $M_{\phi\phi}$−5.38±.47; $M_{r\theta}$−0.13±.75; $M_{r\phi}$1.92±.80; $M_{\theta\phi}$−1.50±.35. Principal Axes: T 5.42,Plg78°,Azm248°; N 0.64, Plg7°,Azm12°; P −6.06,Plg10°,Azm103°. Best double couple: M$_0$5.7×10^{16}Nm, NP1:ϕ_S201°, δ36°,λ102°. NP2:ϕ_S7°,δ55°,λ82°.						
	(193) Solomon Islands						
ISC	**VII 09 13 53 53**±1.1	**9.63S**±.059	**159.75E**±.074	**31**±8.1	**4.6b,4.0s**	**56**	**0-147**
EIDC	VII 09 13 53 49.3	9.6S	159.8E	0	4.4b,4.0s		**¶97vii1347**
BJI	VII 09 13 53 49.9	9.84S	160.06E	28	4.8b		
NEIC	VII 09 13 53 52.8	9.62S	159.73E	33	4.8b		
HNR	Felt I=III MM Honiara						
	(39) Central California						
ISC	**VII 09 16 14 48.0**±.63	**37.95N**±.045	**122.04W**±.062	**13**±5.9		**22**	**0-3**
NEIC	VII 09 16 14 47.6	37.93N	122.03W	12			**¶97vii1364**
NEIC	MD3.0(GM), M$_L$2.9(BRK). Felt, After GM−P.						
NEIC	ML 2.9 (GS). Felt at Concord, Pleasant Hill and Walnut Creek.						
	(97) Near coast of Venezuela						
ISC	**VII 09 19 24 10.3**±.13	**10.50N**±.025	**63.55W**±.020	**3**	**6.0b,6.8s**	**648**	**2-168**
TRN	VII 09 19 24 06.2	10.4N	63.9W	3			**¶97vii1382**
EIDC	VII 09 19 24 10.3	10.5N	63.5W	0	5.3b,6.9s		
MOS	VII 09 19 24 11.0	10.6N	63.5W	7	6.5b,6.7s		
BJI	VII 09 19 24 12.1	10.59N	63.44W	17	7.4s		
NEIC	VII 09 19 24 13.1	10.60N	63.49W	20	6.2b,6.8s		
HRVD	VII 09 19 24 23.4±.1	10.70N±.01	63.63W±.01	15			
TRN	MB6.2. At least 81 people killed, 522 injured, 3000 homeless, extensive damage and landslides in northeast Venezuela and neighbouring islands. Felt I=V MM on Trinidad. Also felt on Tobago						
NEIC	Mw7.0(HRV), Me6.5(GS). Casualties, landslide/avalanche observed.						
NEIC	Radiated energy from the P−wave first−motion solution: 1.1±0.2×10^{14}Nm/26						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S175°,δ88°,λ−45°. NP2:ϕ_S267°,δ45°, λ−177°. Principal axes: T Plg28°,Azm230°; P Plg32°,Azm121°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s57, scale 10^{19}Nm; M_{rr}−0.09; $M_{\theta\theta}$0.26; $M_{\phi\phi}$−0.17; $M_{r\theta}$0.31; $M_{r\phi}$0.68; $M_{\theta\phi}$−2.47. Depth 25km; Principal axes: T 2.55,Plg5°,Azm223°; N 0.09,Plg73°, Azm331°; P −2.63,Plg16°,Azm132°. Best double couple: M$_0$2.6×10^{19}Nm; NP1:ϕ_S268°,δ75°, λ−173°. NP2:ϕ_S177°,δ83°,λ−15°.						
NEIC	Mw 6.9 (GS). Ms 7.0 (BRK). At least 81 people killed, 522 injured, 3,000 homeless, extensive damage and landslides in the Cariaco-Cumana area. Several people injured in the Barcelona-Puerto La Cruz area. Some damage on Isla de Margarita. Power, telephone and water services disrupted on Isla Coche and Isla de Margarita. Felt in much of north eastern Venezuela and as far west as Maracaibo. Felt I=V MM on Trinidad. Also felt on Tobago. Mo=6.0×10^{19}Nm (PPT).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s71,c166; Mantle waves: s71,c177; Half duration: 7^{s}4. Moment tensor: Scale 10^{19}Nm; M_{rr}−0.25±.01; $M_{\theta\theta}$0.57±.01; $M_{\phi\phi}$−0.32±.01; $M_{r\theta}$−0.12±.05; $M_{r\phi}$1.43±.06; $M_{\theta\phi}$−2.69±.01. Principal Axes: T 3.17,Plg17°,Azm223°; N −0.16,Plg62°,Azm349°; P −3.01,Plg21°,Azm126°. Best double couple: M$_0$3.1×10^{19}Nm, NP1:ϕ_S266°,δ62°,λ−177°. NP2:ϕ_S174°,δ87°,λ−28°.						
	(238) Ryūkyū Islands						
ISC	**VII 10 05 12 08.9**±.58	**28.25N**±.042	**130.39E**±.070	**40**±7.8	**3.9b**	**38**	**0-90**
EIDC	VII 10 05 12 05.0	28.3N	130.2E	0	3.9b,3.6L		**¶97vii1455**
NEIC	VII 10 05 12 07.8	28.35N	130.32E	33	3.7b		
JMA	VII 10 05 12 08.1±.3	28.21N±.02	130.43E±.03	47±4	3.8		
BJI	VII 10 05 12 08.4	28.26N	130.48E	36	4.3b,4.4s		
NEIC	Less reliable solution.						
JMA	Felt I=II J1						
	(243) Taiwan region						
ISC	**VII 10 08 19 54.5**±.21	**21.80N**±.026	**121.57E**±.028	**5**	**4.8b,4.7s**	**193**	**0-175**
TAP	VII 10 08 19 53.6	21.79N	121.62E	5	4.9L		**¶97vii1478**
EIDC	VII 10 08 19 54.4	21.8N	121.8E	0	4.4b,4.5s		
BJI	VII 10 08 19 56.3	21.77N	121.45E	17	4.2L,4.9b		
NEIC	VII 10 08 19 57.9	21.78N	121.74E	33	4.8b		
MOS	VII 10 08 20 01.5	22.2N	121.3E	33	5.5b,4.8s		
TAP	Felt I=IV J Lanyu						
BJI	Ms4.7						
	(235) Kyūshū						
ISC	**VII 10 09 22 18**±4.2	**32.50N**±.085	**128.4E**±.24	**6**±17		**22**	**0-4**
JMA	VII 10 09 22 19.2±.4	32.54N±.01	128.44E±.03	14±3	3.5		**¶97vii1487**
JMA	Felt I=II J1						

(135) Near coast of Central Chile

ISC	**VII**	**10 13 06 26.5**±.96	**29.92S**±.052	**71.88W**±.092	**35**±10	**4.4b**,4.6s	**50**	**3-154**	
GUC	VII	10 13 06 26.0	30.02S	72.57W	52	4.7D			**¶97vii1513**
NEIC	VII	10 13 06 26.2	29.91S	71.84W	33	4.5b			
EIDC	VII	10 13 06 26.7	30.0S	71.9W	24	4.3b,4.4L			

NEIC Felt I=III MM at Coquimbo.

(472) New York State

ISC	**VII**	**10 13 57 50.1**±.87	**44.97N**±.055	**74.71W**±.071	**3**±8.1		**18**	**0-4**	
OTT	VII	10 13 57 51.0	45.0N	74.8W	10	3.0N			**¶97vii1516**
NEIC	VII	10 13 57 51.0	45.04N	74.83W	18				

OTT 6km west from Cornwall, Ontario. Eastern Ontario, near the Canada−U.S. border. Reported felt in Cornwall, Massena, Kingston and Ottawa.

NEIC mbLg2.9(OTT)

(121) Off coast of Northern Chile

ISC	**VII**	**10 14 55 50.0**±.23	**23.05S**±.037	**71.09W**±.052	**47**±1.6*	**5.0b,5.3s**	**154**	**5-174**	
BJI	VII	10 14 55 49.4	22.70S	70.90W	33	5.9s			**¶97vii1526**
NEIC	VII	10 14 55 49.4	22.73S	70.89W	33	5.1b,5.3s			
HRVD	VII	10 14 55 52.6±.1	22.95S±.02	71.25W±.02	15				
EIDC	VII	10 14 55 53.3	22.7S	71.0W	53	4.5b,5.5s			

NEIC Mw5.9(HRV).

NEIC Felt I=IV MM at Mejillones and III MM at Maria Elena and Michilla.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c102; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}4.07±.07; $M_{\theta\theta}$−0.07±.09; $M_{\phi\phi}$−4.00±.12; $M_{r\theta}$−0.29±.22; $M_{r\phi}$−6.05±.24; $M_{\theta\phi}$−0.63±.07. Principal Axes: T 7.31,Plg62°,Azm89°; N 0.00, Plg3°,Azm185°; P −7.30,Plg28°,Azm276°. Best double couple: $M_0$7.3×10^{17}Nm, NP1:ϕ_S14°, δ17°,λ100°. NP2:ϕ_S184°,δ73°,λ87°.

(243) Taiwan region

ISC	**VII**	**10 19 35 07**±1.2	**22.0N**±.12	**121.08E**±.085	**17**±17		**10**	**0-2**	
TAP	VII	10 19 35 07.5	22.06N	121.08E	17	3.6L			**¶97vii1553**

TAP Felt I=II J Henchung

(244) Taiwan

ISC	**VII**	**11 00 43 44.2**±.82	**23.06N**±.038	**120.8E**±.11	**4**		**12**	**0-2**	
TAP	VII	11 00 43 43.2	23.04N	120.78E	4	3.5L			**¶97vii1599**

TAP Felt I=III J

(29) Washington State

ISC	**VII**	**11 01 26 00.0**±.97	**47.58N**±.075	**122.5W**±.11	**1**		**7**	**0-3**	
NEIC	VII	11 01 26 01.0	47.58N	122.53W	1				**¶97vii1605**

NEIC MD2.2(SEA). Felt, After SEA.

(29) Washington State

ISC	**VII**	**11 01 28 54.7**±.43	**47.61N**±.019	**122.58W**±.031	**13**±3.9		**95**	**0-16**	
NEIC	VII	11 01 28 55.3	47.59N	122.55W	8				**¶97vii1606**
PGC	VII	11 01 28 55.5	47.6N	122.6W	5	3.0L			

NEIC MD3.6(SEA). Felt, After SEA.

NEIC Felt on Bainbridge Island and in the Seattle area.

PGC Near Bremerton, Washington. Aftershock. Felt.

(235) Kyūshū

ISC	**VII**	**11 01 38 10.8**±.54	**31.83N**±.039	**130.24E**±.054	**9**		**25**	**0-3**	
JMA	VII	11 01 38 10.6±.1	31.86N±.00	130.28E±.01	9±3	3.2			**¶97vii1607**

JMA Felt I=II J1

(14) Kenai Peninsula

ISC	**VII**	**11 02 22 44.5**±.23	**60.98N**±.026	**149.99W**±.049	**59**±5.2	**3.6b**	**88**	**0-59**	
EIDC	VII	11 02 22 34.1	60.6N	151.4W	0	3.6b,3.4L			**¶97vii1616**
NEIC	VII	11 02 22 45.8	61.02N	150.07W	38				

NEIC ML3.6(AEIC), ML3.6(PMR). Felt I=III MM, After AEIC.

NEIC Felt I=III MM at Anchorage.

(123) Northern Chile

ISC	**VII**	**11 02 32 39.9**±.90	**18.78S**±.039	**69.33W**±.048	**83**±9.0	**5.1b**	**230**	**3-172**	
BJI	VII	11 02 32 41.4	19.03S	68.60W	88	5.7s			**¶97vii1618**
NEIC	VII	11 02 32 42.2	18.86S	69.44W	106	5.1b			
EIDC	VII	11 02 32 43.6	18.9S	69.4W	106	4.9b,4.3s			
HRVD	VII	11 02 32 47.8±.4	18.93S±.04	69.71W±.05	131±1.9				

NEIC Mw5.4(HRV)

NEIC Felt I=IV MM at Arica and II MM at Pisagua. Also felt II MM at Arequipa (after ARE).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c41; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.53±.05; $M_{\theta\theta}$−0.14±.07; $M_{\phi\phi}$0.67±.08; $M_{r\theta}$0.22±.04; $M_{r\phi}$−1.42±.06; $M_{\theta\phi}$−0.23±.08. Principal Axes: T 1.67,Plg33°,Azm78°; N −0.19, Plg3°,Azm170°; P −1.48,Plg57°,Azm265°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S154°,δ12°,λ−106°. NP2:ϕ_S351°,δ78°,λ−86°.

(35) Near coast of Northern California

ISC	**VII**	**11 20 32 49**±2.4	**41.99N**±.077	**124.7W**±.30	**21**		**10**	**2-5**	
NEIC	VII	11 20 32 49.0	42.01N	124.60W	21				**¶97vii1726**

NEIC MD2.7(SEA). Felt, After SEA.

(244) Taiwan

ISC	**VII**	**11 22 10 31.6**±.93	**23.69N**±.074	**121.4E**±.14	**12**±11		**8**	**0-1**	
TAP	VII	11 22 10 31.4	23.70N	121.44E	12	3.1L			**¶97vii1733**

TAP Felt I=III J

(244) Taiwan

ISC	**VII**	**11 22 27 15.0**±.99	**23.68N**±.075	**121.4E**±.14	**10**±11		**8**	**0-1**	
TAP	VII	11 22 27 14.5	23.70N	121.45E	12	3.2L			**¶97vii1735**

TAP Felt I=III J

(405) Azores

ISC	**VII**	**12 02 08 46.2**±.77	**38.07N**±.084	**27.00W**±.070	**0**		**13**	**1-1**	
ADH	VII	12 02 08 50.9	38.26N	26.92W		3.6D			**¶97vii1762**

ADH Felt on Terceira I=II MM at Angra do Heroismo

(244) Taiwan

TAP	**VII**	**12 10 59 53.6**	**23.23N**	**120.61E**	**3**	**1.4L**			**¶97vii1804**

TAP Felt I=III J

(327) Lake Baikal region

ISC	**VII**	**12 13 39 08**±4.7	**54.78N**±.070	**111.5E**±.13	**4**±30	**4.0b**,4.4s	**27**	**5-87**	
NEIC	VII	12 13 39 08.1	54.74N	111.40E	10	4.3b			**¶97vii1823**
EIDC	VII	12 13 39 08.4	54.8N	111.3E	0	3.9b,3.9L			
BJI	VII	12 13 39 08.5	54.79N	111.39E	12	4.9L,4.1s			
MOS	VII	12 13 39 08.7	55.0N	111.7E	10	4.4s			

MOS Felt I=III MSK at Uluhan.

(546) Austria

ISC	**VII**	**12 15 18 22.7**±.25	**47.23N**±.024	**11.36E**±.030	**10**		**86**	**0-8**	
NEIC	VII	12 15 18 22.8	47.21N	11.35E	10				**¶97vii1831**
ROM	VII	12 15 18 23.5	47.1N	11.5E	5	2.9D			
LEDBW	VII	12 15 18 24.1	47.24N	11.35E	7	3.3L			
LDG	VII	12 15 18 24.7	47.3N	11.3E		3.1L			
SZGRF	VII	12 15 18 27.0	47.3N	11.3E	10	3.3L			
STR	VII	12 15 18 27.8	47.32N	11.05E	3	3.3L			

NEIC ML3.3(GRF), ML3.1(VIE)

NEIC ML 3.0 (FUR). Felt I=IV MSK at Axams.

(124) Chile-Bolivia border region

ISC	**VII**	**12 16 24 12.3**±.67	**21.19S**±.049	**68.13W**±.053	**141**±5.7	**5.1b**	**228**	**3-168**	
EIDC	VII	12 16 24 10.2	21.3S	68.2W	115	4.9b,3.9s			**¶97vii1836**
NEIC	VII	12 16 24 10.3	21.23S	68.15W	123	5.2b			
BJI	VII	12 16 24 11.4	20.82S	68.28W	122				
HRVD	VII	12 16 24 14.5±.4	21.50S±.04	68.39W±.08	141±2.1				

NEIC Mw5.3(HRV)

NEIC Felt I=IV MM at San Pedro de Atacama and III MM at Calama and Chuquicamata, Chile.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c32; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−6.36±.36; $M_{\theta\theta}$1.97±.59; $M_{\phi\phi}$4.39±.73; $M_{r\theta}$−0.07±.35; $M_{r\phi}$−3.94±.53; $M_{\theta\phi}$−5.64±.60. Principal Axes: T 9.54,Plg11°,Azm53°; N −1.48,Plg23°,Azm148°; P −8.06,Plg64°,Azm300°. Best double couple: $M_0$8.8×10^{16}Nm, NP1:ϕ_S117°,δ40°,λ−129°. NP2:ϕ_S343°,δ60°,λ−63°.

(43) Southern California

ISC	**VII**	**12 18 05 39.9**±.68	**34.14N**±.037	**117.34W**±.042	**8**±6.6		**33**	**0-6**	
NEIC	VII	12 18 05 40.7	34.16N	117.33W	9				**¶97vii1850**

NEIC ML3.5(PAS), ML3.4(GS). Felt, After PAS.

NEIC Felt in the San Bernardino area.

(244) Taiwan

ISC	**VII**	**13 03 46 57**±2.2	**23.1N**±.11	**120.9E**±.30	**4**		**6**	**0-2**	
TAP	VII	13 03 46 55.0	23.04N	120.77E	4	3.0L			**¶97vii1921**

TAP Felt I=II J

(123) Northern Chile

ISC	**VII**	**13 18 10 15.3**±.88	**23.56S**±.040	**68.10W**±.050	**82**±8.7	**5.2b**	**231**	**2-169**	
MOS	VII	13 18 10 19.5	23.7S	68.2W	129	5.5b			**¶97vii2005**
NEIC	VII	13 18 10 19.9	23.63S	68.12W	125	5.2b			
EIDC	VII	13 18 10 20.4	23.6S	68.0W	116	4.9b			
BJI	VII	13 18 10 22.5	23.93S	68.75W	137				
HRVD	VII	13 18 10 25.5±.6	23.34S±.09	68.53W±.14	141±4.7				

NEIC Mw5.3(HRV)

NEIC Felt I=IV MM at San Pedro de Atacama and III MM at Calama.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c16; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}0.69±.70; $M_{\theta\theta}$−2.74±1.01; $M_{\phi\phi}$2.05±1.14; $M_{r\theta}$4.97±.58; $M_{r\phi}$−5.11±.86; $M_{\theta\phi}$−8.23±1.36. Principal Axes: T 12.5,Plg31°,Azm52°; N −3.4, Plg58°,Azm249°; P −9.0,Plg8°,Azm146°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S193°, δ63°,λ18°. NP2:ϕ_S95°,δ74°,λ152°.

(243) Taiwan region

TAP	**VII**	**13 20 07 41.3**	**21.95N**	**121.50E**	**8**	**2.7L**			**¶97vii2020**

TAP Felt I=II J Lanyu

(348) Iran

ISC	**VII**	**13 22 25 52**±5.6	**33.0N**±.15	**60.2E**±.12	**93**±50	**3.8b**	**21**	**17-90**	
NEIC	VII	13 22 25 42.0	32.90N	60.24E	10	4.1b			**¶97vii2029**
EIDC	VII	13 22 25 50.6	32.9N	60.3E	65	3.6b,3.2s			

NEIC Less reliable solution.

NEIC Felt at Birjand and Qayen.

(39) Central California

ISC	**VII**	**14 06 11 10**±1.3	**37.10N**±.066	**122.4W**±.10	**17**±9.0		**32**	**0-11**	
NEIC	VII	14 06 11 11.8	37.18N	122.32W	15				**¶97vii2075**

NEIC ML3.8(BRK), Mw3.5(BRK). Felt, After GM−P.

NEIC MD 3.6 (GM). ML 3.6 (GS). Felt at Santa Cruz and in the Santa Cruz Mountains. Felt as far north as Atherton and in the San Francisco Bay area.

(385) Straits of Gibraltar

ISC	**VII**	**14 09 12 22**±1.4	**36.82N**±.092	**2.95W**±.060	**2**±9.3		**18**	**0-4**	
NEIC	VII	14 09 12 22.8	36.80N	2.96W	10				**¶97vii2091**
MDD	VII	14 09 12 23.7	36.80N	2.96W	1	3.2			

NEIC mbLg3.2(MDD), Single network solution.

MDD Felt I=II−III MSK at Adra

(230) Near south coast of Honshū

ISC	**VII**	**14 13 32 10.2**±.27	**35.58N**±.025	**139.98E**±.036	**45**±5.0	**3.8b**	**91**	**0-148**	
BJI	VII	14 13 32 02.8	35.82N	140.57E	20	4.3b			**¶97vii2139**
EIDC	VII	14 13 32 06.5	35.4N	140.0E	0	3.3L,3.6b			
NEIC	VII	14 13 32 06.8	35.40N	140.02E	18				
JMA	VII	14 13 32 09.9±.1	35.60N±.01	139.92E±.01	43±3	3.8			

JMA Felt I=II J1

(396) Algeria

ISC	**VII**	**14 15 49 51.7**±.28	**35.95N**±.028	**1.14E**±.027	**10**	**4.3b,4.2s**	**181**	**3-147**	
BJI	VII	14 15 49 45.0	34.93N	0.79E	10	5.0b			**¶97vii2166**
EIDC	VII	14 15 49 51.3	36.0N	1.2E	0	4.2b,3.9L			
NEIC	VII	14 15 49 51.4	35.94N	1.17E	10	4.7b,4.3s			
MDD	VII	14 15 49 51.8	35.83N	1.32E	4	4.0			
LDG	VII	14 15 49 57.5	36.0N	1.2E		4.1L			

NEIC Felt in the Relizane area.

(221) Kuril Islands

ISC	**VII**	**14 16 09 31**±1.3	**43.16N**±.021	**146.43E**±.027	**7**±7.7	**5.9b,5.9s**	**837**	**1-154**	
EIDC	VII	14 16 09 31.6	43.3N	146.3E	0	5.4b,5.7s			**¶97vii2170**
BJI	VII	14 16 09 34.3	43.33N	146.46E	33	5.6b,5.9s			
NEIC	VII	14 16 09 35.5	43.25N	146.38E	33	5.9b,5.8s			
JMA	VII	14 16 09 36.8±.4	43.11N±.02	146.29E±.04	37±3	5.9			
MOS	VII	14 16 09 37.3	43.4N	146.4E	42	6.2b,6.2s			
HRVD	VII	14 16 09 40.5±.1	43.19N±.01	146.47E±.01	34				

NEIC Mw6.1(GS), Me6.1(GS)

NEIC Radiated energy from the P−wave first−motion solution: 2.7±0.5×10^{13}Nm/22

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S255°,δ40°,λ140°. NP2:ϕ_S18°,δ66°,λ57°. Principal axes: T Plg56°,Azm244°; P Plg14°,Azm131°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s50, scale 10^{18}Nm; M_{rr}1.06; $M_{\theta\theta}$−0.10; $M_{\phi\phi}$−0.96; $M_{r\theta}$−0.02; $M_{r\phi}$1.00; $M_{\theta\phi}$−0.40. Depth 35km; Principal axes: T 1.49,Plg66°,Azm254°; N −0.02,Plg12°, Azm12°; P −1.47,Plg21°,Azm106°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S216°,δ26°, λ117°. NP2:ϕ_S7°,δ67°,λ77°.

JMA Felt I=II J1

MOS Felt I=IV MSK at Uzno−Kurilsk.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c123; Mantle waves: s45,c86; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}1.05±.01; $M_{\theta\theta}$−0.11±.01; $M_{\phi\phi}$−0.94±.01; $M_{r\theta}$0.06±.03; $M_{r\phi}$1.28±.02; $M_{\theta\phi}$−0.77±.01. Principal Axes: T 1.73,Plg60°,Azm250°; N 0.14,Plg19°,Azm17°; P −1.87,Plg22°,Azm115°. Best double couple: $M_0$1.8×10^{18}Nm, NP1:ϕ_S236°,δ28°,λ133°. NP2:ϕ_S9°,δ70°,λ70°.

(676) Alaska

ISC	**VII**	**14 21 55 57**±1.5	**64.9N**±.13	**164.8W**±.25	**10**	**3.7b**	**17**	**0-52**	
NEIC	VII	14 21 55 56.7	64.96N	164.72W	10				**¶97vii2211**
EIDC	VII	14 21 56 03.7	64.4N	163.2W	0	3.4b,3.1L			

NEIC ML4.4(AEIC), Less reliable solution.

NEIC Felt at Nome.

(2) Southern Alaska

ISC	**VII**	**14 22 42 19.7**±.28	**60.94N**±.026	**147.61W**±.043	**55**±8.7		**88**	**0-7**	
NEIC	VII	14 22 42 21.3	60.97N	147.58W	32				**¶97vii2216**

NEIC ML4.0(AEIC), ML3.9(PMR). Felt I=II MM, After AEIC.

NEIC Felt I=II MM at Valdez.

(243) Taiwan region

ISC	**VII**	**15 11 05 31.3**±.19	**24.75N**±.019	**122.55E**±.018	**104**±1.9	**5.5b**	**655**	**0-178**	
NEIC	VII	15 11 05 31.3	24.71N	122.45E	103	5.6b			**¶97vii2296**
MOS	VII	15 11 05 31.6	24.8N	122.5E	100	5.6b			
BJI	VII	15 11 05 31.6	24.68N	122.52E	111	5.5b			
JMA	VII	15 11 05 32.4±.4	24.86N±.02	122.55E±.03	88	5.4			
EIDC	VII	15 11 05 32.9	24.8N	122.7E	109	5.0b,4.6s			
TAP	VII	15 11 05 33.4	24.62N	122.52E	87	6.1L			
HRVD	VII	15 11 05 33.7±.2	24.52N±.02	122.28E±.02	109±1.4				

NEIC MB6.2(BRK), Mw5.6(GS). Felt I=V MM.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	*n*	Δ-Rng °
NEIC	Mw 5.6 (HRV). Mb 6.2 (BRK). Felt I=III J in eastern Hua-lien and I-lan; I J in the western part of Taiwan. Felt in much of Taiwan.						
NEIC	Moment tensor solution: s19, scale 10^{17}Nm; M_{rr}1.66; $M_{\theta\theta}$0.06; $M_{\phi\phi}$−1.73; $M_{r\theta}$0.57; $M_{r\phi}$−1.95; $M_{\theta\phi}$0.09. Depth 93km; Principal axes: T 2.65,Plg64°,Azm65°; N 0.01,Plg7°, Azm169°; P −2.65,Plg25°,Azm263°. Best double couple: $M_0$2.7×10^{17}Nm; NP1:ϕ_S8°,δ21°, λ110°. NP2:ϕ_S167°,δ70°,λ83°.						
JMA	Felt I=I J1						
TAP	Felt I=III J Ilan, Sun Moon Lake, Hwalien, Chengkung, II Suao, Taipei, Lanyu, Chiayi, Chiawan, Taichen, Hsinchu, Neicheng, Taichung, Alishan, I Santiao Chiao						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c83; Mantle waves: s6,c6; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.44±.04; $M_{\theta\theta}$−0.05±.06; $M_{\phi\phi}$−1.40±.08; $M_{r\theta}$0.63±.04; $M_{r\phi}$−1.84±.05; $M_{\theta\phi}$−0.44±.06. Principal Axes: T 2.57,Plg59°,Azm57°; N −0.26,Plg16°,Azm176°; P −2.31,Plg26°,Azm273°. Best double couple: $M_0$2.4×10^{17}Nm, NP1:ϕ_S35°,δ24°,λ132°. NP2:ϕ_S170°,δ72°,λ73°.						
	(230) Near south coast of Honshū						
ISC	**VII 15 17 15 24.8**±.58	**34.72N**±.035	**139.32E**±.049	**7**±6.0		**36**	**0-2**
JMA	VII 15 17 15 25.0±.1	34.74N±.01	139.34E±.01	3±3	2.8		**¶97vii2327**
JMA	Felt I=II J1						
	(80) Panama-Costa Rica border region						
ISC	**VII 15 17 44 00.5**±.36	**8.85N**±.047	**82.81W**±.037	**38**±3.8	**4.5b,4.3s**	**137**	**0-153**
NEIC	VII 15 17 43 59.9	8.85N	82.83W	33	4.7b,4.3s		**¶97vii2330**
BJI	VII 15 17 44 03.0	8.90N	82.80W	33			
EIDC	VII 15 17 44 03.4	8.9N	82.8W	50	4.1b,4.2s		
NEIC	Slight damage at David, Panama.						
	(230) Near south coast of Honshū						
ISC	**VII 15 19 25 15.1**±.58	**34.73N**±.036	**139.33E**±.041	**8**±5.7		**38**	**0-2**
JMA	VII 15 19 25 15.4±.1	34.73N±.01	139.33E±.01	2±3	3.0		**¶97vii2340**
JMA	Felt I=III J1						
	(378) Pyrenees						
ISC	**VII 15 20 35 41.8**±.36	**43.16N**±.033	**0.33W**±.041	**15**±6.2		**49**	**0-6**
NEIC	VII 15 20 35 40.9	43.25N	0.35W	5			**¶97vii2347**
LDG	VII 15 20 35 41.9	43.1N	0.3W		3.3L		
MDD	VII 15 20 35 42.0	43.14N	0.30W	2	3.5		
STR	VII 15 20 35 42	43.00N	0.36W	5	3.0L		
PIST	Felt I=III MSK in the Bearn region						
NEIC	mbLg3.4(MDD).						
MDD	Felt I=III MSK at northwest Argeles Gazost						
	(405) Azores						
ISC	**VII 15 21 00 40.9**±.73	**38.20N**±.040	**26.77W**±.031	**7**±4.6	**4.5b,4.0s**	**137**	**1-158**
BJI	VII 15 21 00 39.8	38.51N	26.84W	3	4.8b		**¶97vii2352**
NEIC	VII 15 21 00 41.5	38.33N	26.80W	10	4.5b,4.0s		
EIDC	VII 15 21 00 41.8	38.3N	26.6W	0	4.2b,3.8s		
MOS	VII 15 21 00 43.0	38.7N	26.9W	10	5.2b,4.4s		
ADH	VII 15 21 00 43.6	38.23N	26.76W		4.1D		
ADH	Felt on Terceira I=II MM at Angra do Heroismo, Porto Judeu, Aqualva, Ribeirinha, Feteira, Praia da Victoria, Sao Sabastiao, Sao Mateus; on Sao Miguel I= II at Lagoa, Livramento, Cardelaria						
	(235) Kyūshū						
ISC	**VII 16 06 37 22.9**±.85	**32.36N**±.038	**130.62E**±.043	**4**±7.2		**39**	**0-5**
JMA	VII 16 06 37 23.8±.0	32.38N±.00	130.63E±.00	13±1	3.7		**¶97vii2398**
JMA	Felt I=II J1						
	(365) Ægean Sea						
ISC	**VII 16 10 06 06.6**±.87	**39.09N**±.022	**25.20E**±.019	**6**±5.9	**4.5b,4.4s**	**264**	**1-129**
ISK	VII 16 10 06 04.6	39.14N	24.98E	8	4.5D		**¶97vii2419**
BJI	VII 16 10 06 06.5	39.27N	25.20E	5	4.9b,4.8s		
EIDC	VII 16 10 06 06.8	39.1N	25.0E	0	4.3b,4.4L		
MOS	VII 16 10 06 06.9	39.1N	25.2E	10	5.1b,4.6s		
NEIC	VII 16 10 06 07.1	39.10N	25.20E	10	4.6b,3.9s		
ATH	VII 16 10 06 09.7	39.05N	25.30E	38	4.6L		
THE	VII 16 10 06 09.9	39.1N	25.2E	29	4.5L		
NEIC	Felt at Burhaniye, Turkey.						
	(243) Taiwan region						
ISC	**VII 16 11 31 44.2**±.94	**24.25N**±.056	**122.22E**±.045	**5**±9.3		**19**	**0-2**
JMA	VII 16 11 31 44.9±.5	24.73N±.07	122.19E±.04	41	3.2		**¶97vii2436**
TAP	VII 16 11 31 45.3	24.33N	122.04E	2	3.3L		
TAP	Felt I=II J						
	(244) Taiwan						
ISC	**VII 16 17 25 20.8**±.49	**24.41N**±.040	**121.82E**±.052	**13**		**17**	**0-2**
TAP	VII 16 17 25 19.7	24.42N	121.80E	13	3.6L		**¶97vii2474**
JMA	VII 16 17 25 22.3±.8	25.13N±.05	122.27E±.06	0	2.8		
TAP	Felt I=IV J						
	(224) Hokkaido region						
ISC	**VII 17 10 09 00.5**±.45	**43.34N**±.032	**145.20E**±.077	**143**±4.6	**4.1b**	**90**	**0-121**
NEIC	VII 17 10 09 00.5	43.51N	144.95E	138	4.4b		**¶97vii2581**
JMA	VII 17 10 09 02.3±.2	43.40N±.01	145.17E±.02	125±2	4.1		
EIDC	VII 17 10 09 03.2	43.5N	144.9E	147	3.8b		
NEIC	Less reliable solution.						
JMA	Felt I=II J1						
	(457) Eastern Idaho						
ISC	**VII 17 12 02 51.7**±.30	**42.43N**±.027	**111.19W**±.044	**5**	3.7b	**45**	**1-30**
NEIC	VII 17 12 02 51.5	42.43N	111.20W	5			**¶97vii2590**
EIDC	VII 17 12 02 52.1	42.5N	111.2W	0	3.3L,3.6b		
NEIC	$M_{L4.1}$(BUT), $M_{L4.0}$(GS)						
NEIC	Felt at Georgetown. Also felt at Afton and Auburn, Wyoming.						
	(103) Colombia						
ISC	**VII 17 12 45 36.3**±.72	**3.78N**±.039	**74.01W**±.051	**41**±6.6	**4.7b,4.0s**	**143**	**1-157**
EIDC	VII 17 12 45 32.1	3.8N	74.0W	0	4.4b,4.1s		**¶97vii2596**
NEIC	VII 17 12 45 36.3	3.77N	74.03W	42	4.9b,4.0s		
BJI	VII 17 12 45 40.8	3.80N	74.00W	42			
NEIC	Felt at Bogota and Villavicencio. Also felt in Caqueta Department.						
	(159) North Island, New Zealand						
ISC	**VII 17 17 56 12.9**±.92	**38.03S**±.068	**177.9E**±.12	**118**±5.9	**4.4b**	**63**	**0-156**
NEIC	VII 17 17 56 08.1	37.46S	177.41E	33	4.4b		**¶97vii2620**
WEL	VII 17 17 56 08.7	37.08S	177.85E	62	5.0L		
EIDC	VII 17 17 56 15.3	38.2S	177.9E	134	4.1b		
NEIC	Less reliable solution.						
WEL	Felt Whakatane.						
	(39) Central California						
ISC	**VII 17 19 46 36.7**±.70	**36.90N**±.055	**121.72W**±.076	**21**±7.0	3.4b	**38**	**0-32**
NEIC	VII 17 19 46 37.2	36.97N	121.60W	7			**¶97vii2636**
EIDC	VII 17 19 46 39.4	36.6N	121.6W	0	3.7L,3.5b		
NEIC	M_L4.1(BRK), Mw3.9(BRK). Felt, After GM−P.						
NEIC	MD 3.9 (GM). ML 3.9 (GS). Felt at Monterey, Redwood City, Salinas, San Benito, San Francisco, San Jose and Santa Cruz.						
	(160) Off east coast of North Island, N.Z.						
ISC	**VII 18 00 00 02**±1.2	**39.88S**±.050	**177.2E**±.14	**47**±8.0	**4.1b**	**34**	**1-165**
EIDC	VII 17 23 59 47.5	40.3S	178.7E	0	4.2b		**¶97vii2666**
WEL	VII 18 00 00 04.0	39.75S	176.89E	98	4.4L		
WEL	Felt northern and central Hawkes Bay.						
	(337) Eastern Caucasus						
ISC	**VII 18 07 33 54**±2.2	**41.10N**±.067	**45.11E**±.054	**3**±14	**4.2b,**3.4s	**56**	**3-75**
EIDC	VII 18 07 33 53.8	41.0N	45.2E	0	4.1b,3.8s		**¶97vii2707**
BJI	VII 18 07 33 57.4	41.10N	45.10E	33	4.5b		
NEIC	VII 18 07 33 57.4	41.10N	45.14E	33	4.2b		
MOS	VII 18 07 33 58.2	41.1N	45.1E	33	4.5b		
NEIC	About 5,000 houses damaged in the Noyemberyan area, Armenia. Felt I=III MM at Tbilisi, Georgia.						
	(405) Azores						
ISC	**VII 18 17 32 18.5**±.42	**38.20N**±.066	**26.72W**±.046	**0**	**4.1b,**3.3s	**43**	**1-77**
EIDC	VII 18 17 32 19.6	38.1N	26.7W	0	3.8b,4.1L		**¶97vii2770**
ADH	VII 18 17 32 22.6	38.24N	26.81W		3.5D		
NEIC	VII 18 17 32 23.1	38.24N	26.66W	33	4.4b		
ADH	Felt on Terceira I=II−III MM at Angra do Heroismo, Agualva						
NEIC	Less reliable solution.						
	(404) Azores region						
ISC	**VII 18 19 35 05**±9.2	**36.8N**±.31	**24.7W**±.74	**0**		**20**	**1-4**
ADH	VII 18 19 35 11.8	36.96N	24.67W		3.5D		**¶97vii2780**
ADH	Felt on Santa Maria I=II−III MM at Santo Espirito, Santa Barbara						
	(404) Azores region						
ADH	**VII 18 20 27 46.6**	**36.89N**	**24.80W**		**3.9D**		**¶97vii2787**
NEIC	VII 18 20 27 42.0	36.60N	24.27W	33			
EIDC	VII 18 20 27 42.2	36.6N	24.3W	18	3.5b,4.1L		
ADH	Felt on Santa Maria I=III−IV MM at Santo Espirito, III Vila do Porto						
NEIC	Poor solution.						
	(59) Guerrero, Mexico						
ISC	**VII 19 07 34 40.1**±.87	**17.47N**±.057	**100.13W**±.057	**72**±6.6	**4.4b**	**113**	**1-145**
NEIC	VII 19 07 34 35.2	17.36N	100.20W	33	4.6b,3.8s		**¶97vii2843**
MEX	VII 19 07 34 37.0	17.2N	100.6W	51	4.9D		
EIDC	VII 19 07 34 37.5	17.4N	100.1W	34	4.0b,3.9s		
NEIC	Felt.						
	(376) Portugal						
ISC	**VII 19 10 46 12.7**±.83	**37.47N**±.044	**7.03W**±.038	**14**±7.8		**33**	**0-4**
NEIC	VII 19 10 46 08.5	37.37N	7.32W	10			**¶97vii2859**
LIS	VII 19 10 46 14	37.40N	7.05W	12	3.4L		
MDD	VII 19 10 46 14.1	37.44N	7.05W	12	3.4		
NEIC	mbLg3.4(MDD), Single network solution.						
NEIC	Felt I=III MM in the epicentral area.						
MDD	Felt I=III MSK at south Bartolome Torre						
	(135) Near coast of Central Chile						
ISC	**VII 19 12 22 54**±1.9	**29.20S**±.028	**71.59W**±.046	**4**±12	**5.8b,5.6s**	**385**	**3-177**
EIDC	VII 19 12 22 54.2	29.4S	71.7W	0	5.6b,5.3L		**¶97vii2872**
BJI	VII 19 12 22 57.2	29.22S	71.72W	30	6.0s		
NEIC	VII 19 12 22 57.3	29.28S	71.68W	26	5.8b,5.5s		
MOS	VII 19 12 23 00.2	28.8S	71.6W	31	6.4b,5.7s		
HRVD	VII 19 12 23 03.6±.1	29.54S±.02	72.05W±.02	33			
NEIC	Mw5.9(GS), Me5.8(GS)						
NEIC	Radiated energy from the P−wave first−motion solution: 1.1±0.2×10^{13}Nm/14						
NEIC	Mw 5.9 (HRV). Felt I=V MM at Vallenar; IV MM at Caldera, Chanaral, Copiapo, El Salvador and Ovalle; III MM at Coquimbo and La Serena.						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S315°,δ55°,λ60°. NP2:ϕ_S180°,δ45°,λ126°. Principal axes: T Plg65°,Azm168°; P Plg6°,Azm66°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s28, scale 10^{17}Nm; M_{rr}4.20; $M_{\theta\theta}$1.78; $M_{\phi\phi}$−5.98; $M_{r\theta}$−2.93; $M_{r\phi}$−1.81; $M_{\theta\phi}$3.34. Depth 29km; Principal axes: T 7.06,Plg50°,Azm156°; N 0.21,Plg40°, Azm344°; P −7.26,Plg4°,Azm251°. Best double couple: $M_0$7.2×10^{17}Nm; NP1:ϕ_S307°,δ54°, λ38°. NP2:ϕ_S192°,δ60°,λ137°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c88; Mantle waves: s5,c8; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; M_{rr}4.92±.09; $M_{\theta\theta}$1.91±.14; $M_{\phi\phi}$−6.83±.15; $M_{r\theta}$−2.90±.19; $M_{r\phi}$−2.58±.22; $M_{\theta\phi}$2.50±.09. Principal Axes: T 7.54,Plg55°,Azm156°; N 0.22,Plg34°,Azm354°; P −7.76,Plg9°,Azm258°. Best double couple: $M_0$7.7×10^{17}Nm, NP1:ϕ_S315°,δ47°,λ40°. NP2:ϕ_S195°,δ62°,λ129°.						
	(58) Near coast of Guerrero, Mexico						
ISC	**VII 19 14 22 08.9**±.83	**16.34N**±.040	**98.19W**±.032	**31**±5.5	**5.5b,6.3s**	**392**	**0-155**
EIDC	VII 19 14 22 02.7	15.9N	98.3W	0	4.7b,6.4s		**¶97vii2888**
MEX	VII 19 14 22 04.2	15.9N	98.3W	5	5.3D		
MOS	VII 19 14 22 05.4	15.9N	98.2W	33	6.1b,6.4s		
NEIC	VII 19 14 22 08.7	16.33N	98.22W	33	5.7b,6.3s		
BJI	VII 19 14 22 09.7	16.30N	98.20W	15	7.1s		
HRVD	VII 19 14 22 18.3±.1	15.86N±.01	98.26W±.01	15			
NEIC	Mw6.9(GS), Me6.0(GS). Felt.						
NEIC	Radiated energy from the USGS moment tensor solution: 2.3±0.4×10^{13}Nm/15						
NEIC	Mw 6.7 (HRV). Ms 6.1 (BRK). Felt in Guerrero and Oaxaca. Also felt at Mexico City. Mo=1.5×10^{19}Nm (PPT). COMMENT: Complex event observed on broadband displacement seismograms.						
NEIC	Moment tensor solution: s33, scale 10^{19}Nm; M_{rr}0.88; $M_{\theta\theta}$−1.04; $M_{\phi\phi}$0.16; $M_{r\theta}$2.17; $M_{r\phi}$−0.87; $M_{\theta\phi}$0.27. Depth 4km; Principal axes: T 2.45,Plg56°,Azm27°; N 0.19,Plg5°, Azm291°; P −2.64,Plg34°,Azm197°. Best double couple: $M_0$2.5×10^{19}Nm; NP1:ϕ_S268°,δ12°, λ67°. NP2:ϕ_S111°,δ79°,λ95°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c111; Mantle waves: s42,c99; Half duration: 4s9. Moment tensor: Scale 10^{18}Nm; M_{rr}5.93±.03; $M_{\theta\theta}$−4.92±.03; $M_{\phi\phi}$−1.01±.04; $M_{r\theta}$9.39±.15; $M_{r\phi}$−4.63±.15; $M_{\theta\phi}$1.38±.03. Principal Axes: T 12.2,Plg59°,Azm29°; N −0.7,Plg3°,Azm294°; P −11.6,Plg31°,Azm202°. Best double couple: $M_0$1.2×10^{19}Nm, NP1:ϕ_S282°,δ14°,λ78°. NP2:ϕ_S115°,δ76°,λ93°.						
	(509) Georgia						
ISC	**VII 19 17 06 35**±2.0	**34.99N**±.098	**84.73W**±.077	**11**±15		**15**	**0-7**
NEIC	VII 19 17 06 34.3	35.06N	84.81W	10			**¶97vii2920**
NEIC	mbLg3.5(GS). Felt.						
	(546) Austria						
ISC	**VII 19 22 33 37.7**±.91	**47.82N**±.074	**16.4E**±.10	**10**		**15**	**0-4**
NEIC	VII 19 22 33 37.9	47.86N	16.40E	10			**¶97vii2965**
SZGRF	VII 19 22 33 48.5	48.2N	15.9E	10	2.9L		
NEIC	$M_{L2.9}$(VIE), $M_{L2.5}$(BRA)						
NEIC	Felt I=IV MM at Wiener Neustadt.						
	(391) Albania						
ISC	**VII 20 03 39 10.2**±.40	**41.23N**±.023	**19.85E**±.021	**25**±3.8	**4.5b,**4.5s	**246**	**0-123**
TIR	VII 20 03 39 09.3	41.31N	20.12E	11	4.5L		**¶97vii2997**
MOS	VII 20 03 39 10.3	41.0N	19.7E	33	5.2b,3.7s		
PDG	VII 20 03 39 10.7	41.2N	20.0E	1	4.6D		
NEIC	VII 20 03 39 11.1	41.26N	19.82E	33	4.5b		
BJI	VII 20 03 39 12.0	41.60N	20.34E	27	4.7b		
ATH	VII 20 03 39 12.7	41.40N	19.97E	38	4.7L		
THE	VII 20 03 39 13.0	41.2N	20.2E	3	4.3L		
EIDC	VII 20 03 39 14.4	41.3N	20.0E	44	4.1b,4.6L		
LDG	VII 20 03 39 17.7	41.7N	19.5E		4.4L		
TIR	Felt I=IV−V MSK at Tirana, Department of Elbasani						
	(98) Trinidad						
ISC	**VII 20 07 11 21.5**±.91	**10.58N**±.066	**61.45W**±.078	**5**		**7**	**0-3**
NEIC	VII 20 07 11 21.2	10.60N	61.44W	5			**¶97vii3038**
TRN	VII 20 07 11 21.2	10.6N	61.4W	2	3.6D		
NEIC	Single network solution.						

TRN Felt widely north Trinidad I=III MM

(128) Jujuy Province, Argentina

ISC	**VII**	**20 10 14 19.7**±.54	**22.84S**±.030	**66.22W**±.033	**222**±5.7	**5.7b**	**520**	**1-175**
BJI	VII	20 10 14 22.0	22.77S	66.63W	240			**¶97vii3070**
EIDC	VII	20 10 14 22.3	22.9S	66.3W	236	5.5b		
NEIC	VII	20 10 14 22.8	22.98S	66.30W	256	5.7b		
MOS	VII	20 10 14 23.1	22.7S	66.2W	250	5.9b		
HRVD	VII	20 10 14 29.5±.1	22.82S±.01	66.12W±.01	271±.6			

NEIC Mw6.1(GS), Me5.6(GS)

NEIC Radiated energy from the P−wave first−motion solution: 6.1±1.4×10^{12}Nm/17

NEIC Mw 6.1 (HRV). Mb 6.0 (BRK). Felt in parts of Jujuy Province. Felt I=IV MM at Calama and Mejillones; III MM at Antofagasta, San Pedro de Atacama and Tocopilla, Chile.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S55°,δ75°,λ−110°. NP2:ϕ_S290°,δ25°,λ−38°. Principal axes: T Plg27°,Azm161°; P Plg56°,Azm300°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s38, scale 10^{17}Nm; M_{rr}−9.60; $M_{\theta\theta}$7.70; $M_{\phi\phi}$1.90; $M_{r\theta}$−9.50; $M_{r\phi}$−9.10; $M_{\theta\phi}$0.00. Depth 264km; Principal axes: T 13.4,Plg29°,Azm155°; N 4.1,Plg11°, Azm58°; P −17.4,Plg59°,Azm309°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S273°,δ19°, λ−54°. NP2:ϕ_S55°,δ74°,λ−102°.

NEIC Felt I=II MM at Arequipa (after ARE)

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c114; Mantle waves: s47,c72; Half duration: 2s6. Moment tensor: Scale 10^{17}Nm; M_{rr}−6.84±.10; $M_{\theta\theta}$9.39±.15; $M_{\phi\phi}$−2.55±.16; $M_{r\theta}$−9.93±.11; $M_{r\phi}$−7.95±.12; $M_{\theta\phi}$2.08±.15. Principal Axes: T 15.8,Plg28°,Azm160°; N −0.8,Plg18°,Azm60°; P −15.0,Plg56°,Azm302°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S289°,δ24°,λ−39°. NP2:ϕ_S55°,δ75°,λ−109°.

(159) North Island, New Zealand

ISC	**VII**	**20 17 05 52.0**±.40	**39.28S**±.050	**174.90E**±.097	**159**±6.0	**4.1b**	**45**	**1-151**
NEIC	VII	20 17 05 42.0	38.45S	175.99E	100	4.5b		**¶97vii3122**
WEL	VII	20 17 05 53.0	39.23S	174.99E	158	5.0L		
EIDC	VII	20 17 05 53.0	39.1S	174.5E	115	3.7b		

NEIC Poor solution.

WEL Felt I=III MM Marton

(584) South Africa

ISC	**VII**	**21 08 45 49**±1.5	**26.87S**±.051	**26.78E**±.055	**5**±10	**4.7b**	**90**	**1-151**
NEIC	VII	21 08 45 49.1	26.86S	26.62E	5	5.0b		**¶97vii3220**
PRE	VII	21 08 45 50.1	26.85S	26.82E	2	4.0L		
EIDC	VII	21 08 45 50.4	26.8S	26.5E	0	4.6b,4.6L		
MOS	VII	21 08 45 52.3	26.7S	26.3E	10	5.1b		

NEIC Casualties.

NEIC At least 15 people killed and 46 injured at the Hartebeestfontein gold mine near Stilfontein. Felt as far as Pretoria.

(235) Kyūshū

ISC	**VII**	**21 16 03 24.8**±.83	**31.94N**±.039	**130.36E**±.054	**6**±8.2		**23**	**0-3**
JMA	VII	21 16 03 25.3±.0	31.97N±.00	130.39E±.00	8±2	3.1		**¶97vii3261**

JMA Felt I=II J1

(135) Near coast of Central Chile

ISC	**VII**	**21 17 54 15**±1.6	**29.94S**±.035	**71.84W**±.068	**16**±12	**4.8b,4.8s**	**144**	**3-173**
EIDC	VII	21 17 54 13.5	29.9S	71.8W	0	4.6b,5.2s		**¶97vii3271**
NEIC	VII	21 17 54 17.1	29.97S	71.78W	33	4.9b,4.8s		
BJI	VII	21 17 54 18.1	29.90S	71.80W	33	5.4s		
HRVD	VII	21 17 54 21.5±.3	29.86S±.04	72.52W±.05	15			

NEIC Mw5.5(HRV)

NEIC Felt I=II MM at Coquimbo and La Serena.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c51; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.17±.04; $M_{\theta\theta}$−0.13±.06; $M_{\phi\phi}$−1.04±.05; $M_{r\theta}$0.25±.14; $M_{r\phi}$−1.24±.15; $M_{\theta\phi}$−0.09±.04. Principal Axes: T 1.76,Plg65°,Azm71°; N −0.17, Plg7°,Azm176°; P −1.60,Plg24°,Azm269°. Best double couple: $M_0$1.7×10^{17}Nm, NP1:ϕ_S14°, δ22°,λ109°. NP2:ϕ_S173°,δ70°,λ83°.

(382) Adriatic Sea

ISC	**VII**	**21 20 59 22.1**±.25	**42.84N**±.025	**17.91E**±.031	**10**		**113**	**0-20**
PDG	VII	21 20 59 20.2	42.9N	17.8E	10	3.5L,3.6D		**¶97vii3289**
NEIC	VII	21 20 59 23.6	42.90N	17.74E	10			
LDG	VII	21 20 59 24.6	43.0N	18.0E		3.8L		
EIDC	VII	21 20 59 31.2	43.1N	17.8E	82			

ZAG Felt in Dubrovnik

(447) Southern Québec Province

ISC	**VII**	**21 22 49 51.9**±.70	**46.09N**±.047	**75.40W**±.064	**26**±8.8		**26**	**0-7**
OTT	VII	21 22 49 51.3	46.0N	75.4W	20	3.0N		**¶97vii3294**

OTT Western Quebec seismic zone, 52km northeast from Buckingham, Quebec. Felt in Notre−Dame−Du−Laus, Quebec

(135) Near coast of Central Chile

ISC	**VII**	**21 23 19 38**±1.6	**30.31S**±.032	**71.91W**±.066	**24**±12	**5.0b,5.6s**	**212**	**3-176**
EIDC	VII	21 23 19 35.6	30.4S	72.0W	0	4.7b,5.8s		**¶97vii3297**
NEIC	VII	21 23 19 39.3	30.33S	71.92W	33	5.2b,5.5s		
MOS	VII	21 23 19 43.4	30.3S	73.5W	33	5.5b,5.8s		
BJI	VII	21 23 19 44.3	30.30S	71.90W	40	6.1s		
HRVD	VII	21 23 19 49.8±.4	30.72S±.03	71.79W±.05	15			

NEIC Mw6.0(GS), Mw5.9(HRV)

NEIC Felt I=III MM at La Serena.

NEIC Moment tensor solution: s24, scale 10^{18}Nm; M_{rr}0.37; $M_{\theta\theta}$−0.10; $M_{\phi\phi}$−0.27; $M_{r\theta}$0.30; $M_{r\phi}$−1.01; $M_{\theta\phi}$0.07. Depth 4km; Principal axes: T 1.14,Plg54°,Azm74°; N −0.07,Plg0°, Azm343°; P −1.06,Plg36°,Azm253°. Best double couple: $M_0$1.1×10^{18}Nm; NP1:ϕ_S341°,δ9°, λ87°. NP2:ϕ_S163°,δ81°,λ90°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c46; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}5.86±.15; $M_{\theta\theta}$1.05±.15; $M_{\phi\phi}$−6.91±.23; $M_{r\theta}$1.44±.38; $M_{r\phi}$−5.88±.48; $M_{\theta\phi}$−1.37±.14. Principal Axes: T 8.61,Plg64°,Azm57°; N 0.66, Plg14°,Azm179°; P −9.26,Plg21°,Azm275°. Best double couple: $M_0$8.9×10^{17}Nm, NP1: ϕ_S29°,δ27°,λ123°. NP2:ϕ_S173°,δ67°,λ74°.

(135) Near coast of Central Chile

ISC	**VII**	**22 02 09 32.2**±.75	**30.36S**±.040	**71.84W**±.072	**36**±7.9	**4.8b,4.7s**	**122**	**3-169**
EIDC	VII	22 02 09 27.6	30.5S	71.9W	0	4.6b,5.0s		**¶97vii3314**
GUC	VII	22 02 09 29.3	30.32S	72.52W	49	5.1D		
BJI	VII	22 02 09 31.7	30.40S	71.80W	33	5.4s		
NEIC	VII	22 02 09 31.7	30.36S	71.83W	33	4.9b,4.7s		
HRVD	VII	22 02 09 35.2±.4	30.71S±.06	72.38W±.06	15			

NEIC Mw5.4(HRV)

NEIC Felt I=III MM at Coquimbo, La Serena, Ovalle and Santiago.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c43; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}1.12±.05; $M_{\theta\theta}$−0.33±.07; $M_{\phi\phi}$−0.78±.05; $M_{r\theta}$−1.04±.20; $M_{r\phi}$−0.63±.19; $M_{\theta\phi}$−0.05±.05. Principal Axes: T 1.77,Plg61°,Azm154°; N −0.56,Plg11°,Azm43°; P −1.21,Plg26°,Azm308°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S14°,δ21°,λ59°. NP2:ϕ_S227°,δ72°,λ101°.

(382) Adriatic Sea

ISC	**VII**	**22 09 27 33**±1.4	**42.81N**±.077	**18.0E**±.11	**6**±13		**13**	**0-4**
PDG	VII	22 09 27 32.1	42.9N	17.8E	11	2.8L		**¶97vii3349**

ZAG Felt in Dubrovnik (after HVAR)

(216) Marianas

ISC	**VII**	**22 09 50 57.0**±.58	**13.73N**±.085	**144.9E**±.17	**122**±5.4	**4.1b**	**27**	**0-144**
NEIC	VII	22 09 50 56.4	13.71N	144.92E	118	4.2b		**¶97vii3353**
EIDC	VII	22 09 50 58.5	13.7N	145.4E	131	3.8b		

NEIC Less reliable solution.

NEIC Felt on Guam (after GUMO)

(135) Near coast of Central Chile

ISC	**VII**	**22 13 45 01.0**±.66	**31.79S**±.046	**71.37W**±.081	**72**±7.7	**4.4b**	**76**	**1-164**
NEIC	VII	22 13 45 00.1	31.74S	71.41W	63	4.5b		**¶97vii3383**
EIDC	VII	22 13 45 01.1	31.9S	71.3W	66	4.2b		
GUC	VII	22 13 45 03.2	32.03S	71.58W	39	4.7D		

NEIC Felt I=IV MM at Catemu, Illapel, Llay Llay, Los Vilos, Panquehue and Salamanca; III MM at La Ligua, Papudo, Quillota, San Felipe, Santa Maria and Santiago; II MM at Coquimbo, La Serena and Ovalle.

(211) South of Honshū

ISC	**VII**	**22 14 15 58**±1.3	**33.80N**±.044	**139.52E**±.040	**10**±7.5	**4.0b**	**142**	**0-93**
EIDC	VII	22 14 15 58.0	33.8N	139.5E	0	4.0b,3.6L		**¶97vii3385**
JMA	VII	22 14 16 00.8±.1	33.94N±.01	139.47E±.01	22±2	3.8		
NEIC	VII	22 14 16 01.2	33.82N	139.39E	33	3.9b		
BJI	VII	22 14 16 05.4	33.94N	139.53E	35	4.4b		

JMA Felt I=III J1

NEIC Less reliable solution.

(224) Hokkaido region

ISC	**VII**	**22 22 04 40.1**±.50	**42.49N**±.026	**145.01E**±.064	**75**±4.5	**4.3b**	**135**	**1-94**
NEIC	VII	22 22 04 40.4	42.76N	144.85E	69	4.6b		**¶97vii3437**
BJI	VII	22 22 04 40.7	43.48N	145.10E	63	4.5b		
JMA	VII	22 22 04 41.4±.2	42.65N±.01	144.94E±.02	70±3	4.3		
MOS	VII	22 22 04 41.7	42.5N	144.8E	90	4.7b		
EIDC	VII	22 22 04 42.4	42.8N	144.8E	69	4.0b		

JMA Felt I=II J1

(235) Kyūshū

ISC	**VII**	**22 23 18 05.3**±.93	**31.58N**±.049	**130.29E**±.060	**6**±8.8		**21**	**0-3**
JMA	VII	22 23 18 05.7±.0	31.59N±.00	130.32E±.01	8±2	3.2		**¶97vii3449**

JMA Felt I=II J1

(2) Southern Alaska

ISC	**VII**	**22 23 23 20.0**±.24	**61.17N**±.026	**150.78W**±.046	**66**±5.1	**3.8b**	**94**	**0-61**
EIDC	VII	22 23 23 14.8	60.9N	150.9W	0	3.9b,4.1L		**¶97vii3451**
NEIC	VII	22 23 23 21.6	61.17N	150.88W	48	4.0b		

NEIC M_L4.0(PMR), M_L3.9(AEIC). Felt I=III MM, After AEIC.

NEIC Felt I=III MM at Tyonek.

(36) Northern California

ISC	**VII**	**23 03 18 03.0**±.83	**40.87N**±.043	**123.37W**±.083	**32**±12	**3.6b**	**33**	**0-28**
EIDC	VII	23 03 17 57.9	40.5N	123.9W	0	3.3L,3.8b		**¶97vii3472**
NEIC	VII	23 03 18 03.8	40.90N	123.37W	25			

NEIC Mw4.0(BRK), M_L4.0(BRK). Felt, After GM−P.

NEIC MD 3.9 (GM). ML 3.7 (GS). Felt at Blue Lake and Willow Creek.

(109) Near coast of Northern Peru

ISC	**VII**	**23 14 52 04**±1.5	**9.17S**±.082	**78.81W**±.084	**63**±15	**5.0b**	**140**	**3-171**
NEIC	VII	23 14 52 03.6	9.23S	78.85W	66	5.0b		**¶97vii3547**
EIDC	VII	23 14 52 05.2	9.3S	78.9W	67	4.5b,3.8s		
BJI	VII	23 14 52 05.6	9.20S	78.80W	66			

NEIC Felt strongly at Chimbote. Also felt along the coast of central Peru.

(246) South-western Ryūkyū Islands

ISC	**VII**	**23 19 06 11.6**±.49	**24.78N**±.051	**125.41E**±.040	**54**±4.5	**4.3b,3.9s**	**91**	**0-122**
BJI	VII	23 19 06 10.4	24.79N	125.54E	57	4.0L,4.3b		**¶97vii3570**
NEIC	VII	23 19 06 11.0	24.80N	125.36E	50	4.8b		
JMA	VII	23 19 06 11.6±.1	24.92N±.04	125.31E±.03	51	4.2		
MOS	VII	23 19 06 11.9	24.8N	125.3E	53	5.2b		
EIDC	VII	23 19 06 12.4	24.8N	125.3E	52	4.0b,3.6s		

BJI Ms3.8

NEIC Less reliable solution.

JMA Felt I=III J1

(135) Near coast of Central Chile

ISC	**VII**	**23 23 08 06.7**±.97	**34.81S**±.065	**71.7W**±.12	**59**±7.3	**4.2b**,3.6s	**34**	**1-148**
NEIC	VII	23 23 08 03.3	35.01S	71.81W	33	3.9b		**¶97vii3586**
EIDC	VII	23 23 08 07.4	34.8S	71.7W	46	4.0b,4.4L		
GUC	VII	23 23 08 07.5	34.70S	71.69W	40	4.6D		

NEIC Felt I=IV MM at San Fernando; III MM at Curico, Hualane, Licanten, Rancagua and Talca; II MM at Santiago.

(232) Southern Honshū

ISC	**VII**	**24 04 59 48.2**±.64	**35.95N**±.029	**136.58E**±.030	**0**±5.8		**54**	**0-4**
JMA	VII	24 04 59 49.0±.0	35.92N±.00	136.61E±.00	13±1	3.7		**¶97vii3622**

JMA Felt I=II J1

(404) Azores region

ISC	**VII**	**24 05 55 55**±8.5	**36.8N**±.29	**24.8W**±.66	**0**		**19**	**1-4**
ADH	VII	24 05 56 00.8	36.96N	24.63W		3.7D		**¶97vii3629**

ADH Felt on Santa Maria I=III MM

(134) Off coast of Central Chile

ISC	**VII**	**24 19 54 39**±1.8	**30.55S**±.038	**72.03W**±.077	**25**±13	**4.8b,5.1s**	**180**	**2-176**
GUC	VII	24 19 54 35.7	30.45S	72.40W	33			**¶97vii3714**
EIDC	VII	24 19 54 36.1	30.5S	71.9W	0	4.6b,4.6L		
NEIC	VII	24 19 54 39.6	30.58S	72.02W	33	5.0b,5.0s		
BJI	VII	24 19 54 40.6	30.73S	72.27W	32	5.7s		
MOS	VII	24 19 54 41.2	30.5S	71.8W	33	5.3b,5.2s		
HRVD	VII	24 19 54 43.2±.1	30.63S±.02	72.63W±.02	15			

NEIC Mw5.7(HRV)

NEIC Felt I=IV MM at La Serena and III MM at Ovalle, Paihuano and Papudo.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c90; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}3.26±.06; $M_{\theta\theta}$0.25±.08; $M_{\phi\phi}$−3.51±.07; $M_{r\theta}$0.07±.19; $M_{r\phi}$−1.77±.21; $M_{\theta\phi}$0.05±.06. Principal Axes: T 3.70,Plg76°,Azm86°; N 0.25, Plg1°,Azm179°; P −3.94,Plg14°,Azm269°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S0°, δ31°,λ91°. NP2:ϕ_S179°,δ59°,λ89°.

(1) Central Alaska

ISC	**VII**	**24 23 28 53.0**±.96	**63.46N**±.040	**151.0W**±.12	**9**±7.2		**26**	**0-5**
NEIC	VII	24 23 28 53.6	63.47N	150.88W	8			**¶97vii3735**

NEIC M_L3.9(PMR), M_L3.7(AEIC). Felt, After AEIC.

NEIC Felt at Kantishna.

(244) Taiwan

ISC	**VII**	**25 02 49 51.9**±.55	**23.03N**±.034	**120.77E**±.059	**4**		**16**	**0-2**
TAP	VII	25 02 49 51.2	23.03N	120.80E	4	3.7L		**¶97vii3760**

TAP Felt I=III J

(135) Near coast of Central Chile

ISC	**VII**	**25 06 47 03.0**±.18	**30.48S**±.028	**71.88W**±.052	**37**±2.7*	**5.4b,5.6s**	**280**	**2-176**
EIDC	VII	25 06 46 58.8	30.5S	72.0W	0	5.2b,5.8s		**¶97vii3783**
NEIC	VII	25 06 47 02.6	30.46S	71.91W	33	5.6b,5.5s		
BJI	VII	25 06 47 03.2	30.38S	71.94W	42	6.2s		
MOS	VII	25 06 47 03.8	30.3S	72.1W	33	5.9b,5.7s		
HRVD	VII	25 06 47 06.4±.1	30.54S±.01	72.37W±.01	15			

NEIC Mw6.2(GS), Mw6.1(HRV)

NEIC Felt I=III MM at Coquimbo and La Serena; II MM at Valparaiso.

NEIC Moment tensor solution: s37, scale 10^{18}Nm; M_{rr}1.08; $M_{\theta\theta}$−0.42; $M_{\phi\phi}$−0.66; $M_{r\theta}$0.76; $M_{r\phi}$−2.16; $M_{\theta\phi}$0.59. Depth 3km; Principal axes: T 2.57,Plg57°,Azm79°; N −0.05,Plg8°, Azm337°; P −2.52,Plg32°,Azm242°. Best double couple: $M_0$2.5×10^{18}Nm; NP1:ϕ_S305°,δ15°, λ57°. NP2:ϕ_S158°,δ78°,λ98°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c115; Mantle waves: s53,c84; Half duration: 2s3. Moment tensor: Scale 10^{18}Nm; M_{rr}1.16±.01;

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °

Mθθ−0.08±.01; Mϕϕ−1.08±.01; Mrθ−0.05±.04; Mrϕ−0.93±.04; Mθϕ0.15±.01. Principal Axes: T 1.50,Plg70°,Azm100°; N −0.07,Plg5°,Azm356°; P −1.43,Plg20°,Azm264°. Best double couple: M0 1.5×10^{18}Nm, NP1:φS345°,δ26°,λ78°. NP2:φS178°,δ65°,λ96°.

(45) California-Mexico border region

ISC	**VII 25 07 00 23**±2.3	**32.4N**±.16	**115.20W**±.073	**10**±10		**18**	**0-2**	
NEIC	VII 25 07 00 24.4	32.41N	115.18W	6				¶97vii3785
ECX	VII 25 07 00 24.5	32.57N	115.19W	10	3.4D			

NEIC ML3.0(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt east of the Mexicali Valley

(135) Near coast of Central Chile

ISC	**VII 25 07 33 27**±1.8	**30.49S**±.038	**71.98W**±.083	**17**±14	**4.8b,6.0s**	**135**	**2-176**	
EIDC	VII 25 07 33 26.0	30.4S	71.8W	0	4.6b,4.4L			¶97vii3793
NEIC	VII 25 07 33 29.0	30.55S	72.02W	33	5.1b			
MOS	VII 25 07 33 29.6	30.5S	71.7W	33	5.4b			
BJI	VII 25 07 33 30.8	30.69S	72.18W	40	6.3s			
HRVD	VII 25 07 33 37.8±.2	30.69S±.04	72.30W±.04	15				

NEIC Mw6.1(HRV).
NEIC Felt I=IV MM at Coquimbo, La Serena and Ovalle; III MM at Canela, Combarbala, Illapel, Monte Patria, Paihuano and Punitaqui; II MM at Salamanca and Valparaiso.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c62; Mantle waves: s1,c1; Half duration: 2s2. Moment tensor: Scale 10^{18}Nm; Mrr1.09±.03; Mθθ−0.08±.05; Mϕϕ−1.01±.04; Mrθ−0.23±.10; Mrϕ−0.89±.14; Mθϕ−0.06±.03. Principal Axes: T 1.44,Plg69°,Azm111°; N −0.09,Plg5°,Azm8°; P −1.35,Plg20°,Azm277°. Best double couple: M0 1.4×10^{18}Nm, NP1:φS358°,δ25°,λ79°. NP2:φS191°,δ66°,λ95°.

(134) Off coast of Central Chile

ISC	**VII 25 07 34 33.5**±.40	**30.57S**±.084	**72.4W**±.12	**33**	**5.1b,5.6s**	**100**	**10-174**	
NEIC	VII 25 07 34 30.7	30.49S	71.95W	33	5.4b,5.5s			¶97vii3794
EIDC	VII 25 07 34 31.6	30.5S	72.1W	0	5.0b,5.6s			

NEIC Felt I=IV MM, Less reliable solution.

(244) Taiwan

ISC	**VII 25 09 35 18.5**±.85	**23.89N**±.061	**121.5E**±.10	**21**±9.0		**13**	**0-2**	
TAP	VII 25 09 35 18.6	23.95N	121.46E	20	3.6L			¶97vii3812

TAP Felt I=III

(127) Chile-Argentina border region

ISC	**VII 25 16 42 39.3**±.46	**33.96S**±.061	**70.41W**±.080	**115**±5.0	**4.1b**	**30**	**0-154**	
NEIC	VII 25 16 42 38.9	34.03S	70.27W	100	4.6b			¶97vii3847
EIDC	VII 25 16 42 40.3	34.0S	70.2W	103	4.0b			
GUC	VII 25 16 42 40.8	33.91S	70.53W	102	4.1D			

NEIC Felt I=III MM at Rancagua and Santiago; II MM at Buin and Maipo, Chile.

(243) Taiwan region

ISC	**VII 25 18 29 13**±1.2	**22.06N**±.084	**121.51E**±.086	**8**		**10**	**0-3**	
TAP	VII 25 18 29 11.8	22.09N	121.70E	8	3.4L			¶97vii3859

TAP Felt I=II J Lanyu

(43) Southern California

ISC	**VII 26 03 14 55.2**±.72	**33.40N**±.042	**116.33W**±.036	**6**±6.2	**4.0b**,3.5s	**69**	**0-100**	
BJI	VII 26 03 14 53.8	33.27N	116.28W	18				¶97vii3903
ECX	VII 26 03 14 55.5	33.40N	116.30W	10	4.9D			
NEIC	VII 26 03 14 55.9	33.40N	116.35W	12				
EIDC	VII 26 03 14 56.0	33.4N	116.4W	0	4.1b,3.7L			

ECX Felt north east of San Diego
NEIC ML4.8(PAS). Felt I=IV MM, After PAS.
NEIC Felt I=IV MM at Oceanside and Rancho Mirage; III MM at El Cajon. Also felt at Borrego Springs and San Diego. Felt in Los Angeles, Orange, Riverside, San Bernardino and San Diego Counties.

(235) Kyūshū

ISC	**VII 26 09 36 06**±1.1	**31.98N**±.029	**130.41E**±.038	**15**±7.7	**4.1b**,4.0s	**73**	**0-88**	
JMA	VII 26 09 36 05.6±.1	31.97N±.00	130.44E±.01	9±2	4.2			¶97vii3946
BJI	VII 26 09 36 05.6	32.14N	130.50E	18	3.8L,4.0b			
NEIC	VII 26 09 36 07.6	32.06N	130.41E	33				
EIDC	VII 26 09 36 11.3	32.2N	130.4E	53	3.5b,3.9L			

JMA Felt I=IV J1
BJI Ms4.1
NEIC Less reliable solution.

(43) Southern California

ISC	**VII 26 10 24 16.1**±.49	**34.15N**±.036	**117.34W**±.032	**9**±5.4	3.3b	**41**	**0-36**	
NEIC	VII 26 10 24 16.9	34.16N	117.33W	9	4.2b			¶97vii3952
EIDC	VII 26 10 24 18.5	34.1N	117.2W	0	3.3L,3.3b			

NEIC ML3.7(PAS). Felt, After PAS.
NEIC Felt in the San Bernardino area.

(134) Off coast of Central Chile

ISC	**VII 26 11 11 57**±1.7	**30.61S**±.036	**72.02W**±.074	**28**±13	**4.6b,4.5s**	**109**	**2-169**	
EIDC	VII 26 11 11 53.7	30.7S	72.0W	0	4.7b,4.6s			¶97vii3957
NEIC	VII 26 11 11 57.4	30.64S	72.02W	33	4.8b,4.5s			
BJI	VII 26 11 11 58.7	31.25S	71.28W	33				

NEIC Felt I=II MM at La Serena.

(216) Marianas

ISC	**VII 26 18 43 25.6**±.91	**18.54N**±.028	**146.01E**±.048	**101**±8.7	**4.9b**	**168**	**3-157**	
BJI	VII 26 18 43 22.6	18.69N	146.56E	92	4.7b			¶97vii3994
NEIC	VII 26 18 43 24.4	18.64N	145.86E	89	5.1b			
MOS	VII 26 18 43 24.6	18.7N	146.0E	90	5.1b			
EIDC	VII 26 18 43 25.6	18.6N	145.9E	92	4.4b,3.9s			

NEIC Felt strongly on Agrihan.

(43) Southern California

ISC	**VII 27 00 06 05.5**±.99	**34.33N**±.039	**118.68W**±.064	**13**±8.2		**28**	**0-3**	
NEIC	VII 27 00 06 06.2	34.36N	118.70W	15				¶97vii4034

NEIC ML3.1(PAS). Felt, After PAS.

(377) Spain

ISC	**VII 27 02 35 39**±1.0	**42.83N**±.078	**7.1W**±.13	**10**		**7**	**0-3**	
NEIC	VII 27 02 35 38.5	42.82N	7.11W	10				¶97vii4047
MDD	VII 27 02 35 40.2	42.83N	7.21W	12	3.0			

NEIC mbLg3.0(MDD), Single network solution.
MDD Felt I=II MSK at Sarria−Becerrea

(135) Near coast of Central Chile

ISC	**VII 27 05 21 27**±1.5	**30.50S**±.031	**71.89W**±.060	**18**±11	**5.3b,5.9s**	**269**	**2-176**	
EIDC	VII 27 05 21 25.7	30.3S	71.9W	0	4.8b,6.0s			¶97vii4064
BJI	VII 27 05 21 29.1	30.41S	71.82W	34	6.2s			
NEIC	VII 27 05 21 29.2	30.52S	71.86W	33	5.6b,5.8s			
MOS	VII 27 05 21 30.1	30.4S	71.9W	33	5.7b			
HRVD	VII 27 05 21 33.8±.1	30.64S±.01	72.41W±.01	15				

NEIC Mw6.3(HRV), Mw6.2(GS). Felt I=II MM.
NEIC Felt I=II MM at La Serena.
NEIC Moment tensor solution: s38, scale 10^{18}Nm; Mrr0.58; Mθθ−0.31; Mϕϕ−0.28; Mrθ0.59; Mrϕ−1.75; Mθϕ−1.37. Depth 11km; Principal axes: T 2.58,Plg42°,Azm55°; N −0.54,Plg39°, Azm190°; P −2.04,Plg24°,Azm301°. Best double couple: M0 2.3×10^{18}Nm; NP1:φS80°,δ40°, λ164°. NP2:φS182°,δ80°,λ51°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c131; Mantle waves: s56,c108; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; Mrr1.92±.01; Mθθ−0.11±.01; Mϕϕ−1.80±.01; Mrθ0.05±.05; Mrϕ−2.35±.05; Mθϕ0.13±.01. Principal Axes: T 3.05,Plg64°,Azm90°; N −0.11,Plg1°,Azm358°; P −2.94,Plg26°,Azm267°. Best double couple: M0 3.0×10^{18}Nm, NP1:φS354°,δ19°,λ86°. NP2:φS178°,δ71°,λ91°.

(400) Mediterranean Sea

ISC	**VII 27 10 07 52.9**±.15	**35.59N**±.018	**21.09E**±.015	**36**±1.8*	**5.4b,4.8s**	**650**	**2-147**	
EIDC	VII 27 10 07 48.2	35.4N	21.1E	0	5.3b,4.9s			¶97vii4092
CSEM	VII 27 10 07 48.5	35.58N	21.07E	15				
RYD	VII 27 10 07 48.6	35.58N	21.07E	34	5.5D			
ATH	VII 27 10 07 52.3	35.28N	21.00E	40	5.2L			
BJI	VII 27 10 07 52.5	35.64N	21.07E	38	5.7b,5.2s			
NEIC	VII 27 10 07 52.5	35.58N	21.06E	33	5.5b,4.8s			
THE	VII 27 10 07 52.7	35.5N	21.2E	14	5.1L			
MOS	VII 27 10 07 53.7	35.7N	21.1E	33	6.2b,4.6s			
HRVD	VII 27 10 07 56.6±.3	35.49N±.04	20.91E±.04	33				
PDG	VII 27 10 08 02.2	36.0N	19.4E	51	5.6L,5.5D			

CSEM Mw5.6. M0=2.5±2.0×10^{17}Nm. Fault plane solution NP1:φS128°,δ20°,λ−120°. NP2:φS340°, δ73°,λ−80°. Principal Axes: T Plg27°,Azm61°; N Plg10°,Azm156°; P Plg61°,Azm265°.
NEIC Mw5.8(GS), ML5.2(ROM)
NEIC Mw 5.6 (HRV), 5.5 (CSEM). Felt in the Cairo area, Egypt.
NEIC Moment tensor solution: s14, scale 10^{17}Nm; Mrr0.05; Mθθ4.08; Mϕϕ−4.13; Mrθ0.01; Mrϕ−0.97; Mθϕ−2.61. Depth 13km; Principal axes: T 4.85,Plg3°,Azm17°; N 0.20,Plg79°, Azm125°; P −5.06,Plg10°,Azm286°. Best double couple: M0 5.0×10^{17}Nm; NP1:φS62°,δ80°, λ−175°. NP2:φS331°,δ85°,λ−10°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c61; Mantle waves: s2,c2; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; Mrr−0.31±.06; Mθθ−0.53±.08; Mϕϕ0.84±.09; Mrθ0.10±.14; Mrϕ−1.10±.15; Mθϕ−2.17±.08. Principal Axes: T 2.73,Plg18°,Azm56°; N −0.43,Plg65°,Azm188°; P −2.30,Plg18°,Azm320°. Best double couple: M0 2.5×10^{17}Nm, NP1:φS98°,δ65°,λ180°. NP2:φS188°,δ90°,λ25°.

(244) Taiwan

ISC	**VII 27 13 00 57.4**±.97	**23.96N**±.063	**121.5E**±.11	**22**±10		**10**	**0-1**	
TAP	VII 27 13 00 57.4	23.96N	121.48E	17	2.9L			¶97vii4111

TAP Felt I=II J

(492) Virginia

ISC	**VII 27 15 10 38.3**±.76	**38.53N**±.071	**78.65W**±.090	**5**		**13**	**1-6**	
NEIC	VII 27 15 10 35.8	38.68N	78.39W	5				¶97vii4124

NEIC mbLg2.5(GS), Less reliable solution.
NEIC Felt I=V MM at Brandy Station and Culpeper, III MM at Jeffersonton and II MM at Casanova.

(665) Yellow Sea

ISC	**VII 27 18 31 59**±1.8	**33.55N**±.035	**122.23E**±.032	**0**±12	**4.3b,4.8s**	**120**	**3-99**	
BJI	VII 27 18 31 59.5	33.56N	122.36E	12	5.2L,4.8b			¶97vii4150
MOS	VII 27 18 32 00.3	33.5N	122.3E	10	5.1b,4.9s			
EIDC	VII 27 18 32 00.3	33.6N	122.2E	0	4.1b,4.3L			
NEIC	VII 27 18 32 00.4	33.56N	122.19E	10	4.8b,4.3s			

BJI Ms5.1
NEIC Felt in eastern Jiangsu Province and at Shanghai, China.

(243) Taiwan region

ISC	**VII 27 22 00 43.3**±.80	**24.91N**±.058	**122.48E**±.045	**26**±8.6	**3.9b**	**31**	**1-59**	
BJI	VII 27 22 00 17.8	20.42N	119.91E	15	4.2L			¶97vii4169
JMA	VII 27 22 00 40.3±.9	24.94N±.07	122.29E±.07	23	3.8			
TAP	VII 27 22 00 43.1	24.79N	122.42E	4	4.4L			
EIDC	VII 27 22 01 10.5	27.6N	130.2E	421	3.0b			

TAP Felt I=III J

(230) Near south coast of Honshū

ISC	**VII 28 06 32 31.1**±.64	**34.43N**±.047	**139.28E**±.061	**6**±6.3		**26**	**0-2**	
JMA	VII 28 06 32 31.7±.1	34.43N±.01	139.27E±.01	2±3	2.9			¶97vii4216

JMA Felt I=II J1

(244) Taiwan

ISC	**VII 29 00 01 24**±1.3	**24.30N**±.043	**121.8E**±.12	**2**±9.2		**19**	**0-3**	
TAP	VII 29 00 01 23.2	24.31N	121.81E	11	4.0L			¶97vii4348

TAP Felt I=III J

(244) Taiwan

TAP	**VII 29 00 21 36.6**	**24.45N**	**121.73E**	**6**	**2.0L**			¶97vii4350

TAP Felt I=III J

(244) Taiwan

ISC	**VII 29 00 50 22.6**±.57	**24.29N**±.040	**121.85E**±.052	**10**		**21**	**0-2**	
JMA	VII 29 00 50 19.8±.5	25.28N±.04	122.04E±.04	0	3.1			¶97vii4353
TAP	VII 29 00 50 22.4	24.31N	121.81E	10	3.6L			

TAP Felt I=III J

(211) South of Honshū

ISC	**VII 29 01 56 34.1**±.72	**33.28N**±.045	**140.77E**±.051	**56**±5.9	**4.3b**	**163**	**1-154**	
MOS	VII 29 01 56 34.7	33.2N	140.3E	57	4.6b			¶97vii4364
NEIC	VII 29 01 56 35.0	33.23N	140.57E	58	4.4b			
EIDC	VII 29 01 56 36.4	33.3N	140.8E	57	3.9b			
JMA	VII 29 01 56 36.7±.2	33.41N±.01	140.55E±.02	52±4	4.1			

JMA Felt I=II J1

(244) Taiwan

ISC	**VII 29 02 20 55.5**±.65	**24.26N**±.036	**121.49E**±.060	**2**±10		**17**	**0-2**	
TAP	VII 29 02 20 54.3	24.26N	121.48E	5	3.3L			¶97vii4366

TAP Felt I=II J

(162) South Island, New Zealand

ISC	**VII 29 02 37 41**±1.8	**44.33S**±.090	**168.6E**±.14	**9**±18		**11**	**1-3**	
WEL	VII 29 02 37 40.7	44.37S	168.67E	5	3.7L			¶97vii4368

WEL Felt I=IV MM Mt Aspiring Stn

(123) Northern Chile

ISC	**VII 29 17 35 39.0**±.81	**22.77S**±.048	**68.60W**±.063	**110**±7.7	**4.8b**	**134**	**3-169**	
NEIC	VII 29 17 35 38.9	22.76S	68.81W	107	4.9b			¶97vii4457
EIDC	VII 29 17 35 40.0	22.8S	68.5W	107	4.5b			
BJI	VII 29 17 35 41.0	22.51S	69.21W	107				

NEIC Felt I=IV MM at Antofagasta, Calama, Chuquicamata and Socaire; III MM at San Pedro de Atacama.

(308) Northern India

ISC	**VII 29 18 00 20.6**±.84	**31.56N**±.054	**76.86E**±.046	**49**±8.0	**4.3b,4.3s**	**85**	**3-140**	
NEIC	VII 29 18 00 18.7	31.55N	76.82E	33	4.7b			¶97vii4462
MOS	VII 29 18 00 18.8	31.6N	76.9E	33	4.9b,4.4s			
BJI	VII 29 18 00 19.5	31.65N	76.81E	32	4.6L,4.7b			
EIDC	VII 29 18 00 21.8	31.4N	76.9E	45	4.1b,4.5s			

NEIC Felt in the Kangra and Sundarnagar areas.
BJI Ms4.5

(43) Southern California

ISC	**VII 29 20 17 28**±2.9	**33.9N**±.18	**117.8W**±.15	**1**±20		**5**	**0-2**	
NEIC	VII 29 20 17 29.6	33.88N	117.83W	5				¶97vii4477

ISC Poorly determined
NEIC ML2.7(PAS). Felt, After PAS.
NEIC Felt in Orange County.

(1) Central Alaska

ISC	**VII 30 01 20 36.1**±.84	**63.48N**±.042	**151.1W**±.13	**20**±8.0	**3.8b**	**28**	**0-74**	
EIDC	VII 30 01 20 33.6	63.6N	151.4W	0	3.8b,3.6L			¶97vii4514
NEIC	VII 30 01 20 36.6	63.47N	151.08W	15				

NEIC ML3.9(PMR), ML3.7(AEIC). Felt, After AEIC.
NEIC Felt at Kantishna.

(40) California-Nevada border region

ISC	**VII 30 01 31 21.2**±.47	**37.65N**±.049	**118.84W**±.051	**6**			**22**	**0-5**
NEIC	VII 30 01 31 20.6	37.63N	118.86W	6				**¶97vii4515**
NEIC	M_L3.3(GS), M_L3.3(BRK). Felt, After GM−P.							
NEIC	MD 3.2 (GM). Felt in the epicentral area.							

(235) Kyūshū

ISC	**VII 30 05 40 22.7**±.86	**31.95N**±.039	**130.38E**±.055	**2**±8.7			**25**	**0-3**
JMA	VII 30 05 40 23.2±.1	31.96N±.00	130.41E±.01	7±3	3.2			**¶97vii4538**
JMA	Felt I=II J1							

(235) Kyūshū

ISC	**VII 30 06 31 52.5**±.52	**32.71N**±.034	**130.01E**±.046	**18**±6.0	**3.9b**		**45**	**0-87**
EIDC	VII 30 06 31 51.9	32.7N	130.2E	0	3.8b,3.1L			**¶97vii4544**
JMA	VII 30 06 31 52.6±.0	32.71N±.00	130.05E±.00	14±1	3.9			
NEIC	VII 30 06 31 54.2	32.75N	130.06E	33				
JMA	Felt I=II J1							
NEIC	Single network solution.							

(244) Taiwan

ISC	**VII 30 06 34 38**±1.7	**24.26N**±.043	**122.0E**±.16	**10**			**19**	**0-2**
TAP	VII 30 06 34 38.8	24.31N	121.83E	10	3.8L			**¶97vii4546**
TAP	Felt I=III J							

(244) Taiwan

ISC	**VII 30 08 16 31**±2.2	**24.28N**±.087	**121.8E**±.21	**9**±17			**6**	**0-1**
TAP	VII 30 08 16 30.2	24.31N	121.80E	13	2.8L			**¶97vii4552**
TAP	Felt I=II J							

(244) Taiwan

ISC	**VII 30 08 20 59**±2.2	**24.27N**±.082	**121.8E**±.21	**8**±15			**7**	**0-1**
TAP	VII 30 08 20 58.5	24.31N	121.80E	14	3.0L			**¶97vii4556**
TAP	Felt I=II J							

(533) United Kingdom

ISC	**VII 30 08 34 43.6**±.79	**56.25N**±.065	**3.7W**±.11	**12**±10			**11**	**0-3**
BGS	VII 30 08 34 44.0	56.25N	3.75W	5	2.4L			**¶97vii4558**
BGS	Felt I=IV+ MSK,Blackford, Tayside							

(506) Tennessee

ISC	**VII 30 12 29 21.7**±.47	**36.58N**±.048	**83.68W**±.063	**5**	3.4b		**30**	**1-46**
OTT	VII 30 12 29 23.0	36.5N	83.5W	5	3.7N			**¶97vii4582**
NEIC	VII 30 12 29 23.3	36.44N	83.51W	5				
EIDC	VII 30 12 29 30.2	35.8N	84.2W	0	3.1b,3.9L			
NEIC	mbLg3.8(GS)							
NEIC	Felt I=V MM at Bean Station and Morristown; IV MM at Blaine, Harrogate, New Tazewell, Speedwell, Talbott and Washburn. Also felt IV MM at Ewing, Virginia and Asheville, North Carolina. Felt in parts of Kentucky, North Carolina, Tennessee and Virginia.							

(97) Near coast of Venezuela

ISC	**VII 30 14 06 39**±1.7	**10.72N**±.052	**63.42W**±.050	**30**±14	**4.0b**		**36**	**2-146**
TRN	VII 30 14 06 37.0	10.6N	63.4W	10	4.3D			**¶97vii4588**
NEIC	VII 30 14 06 38.0	10.70N	63.42W	24	4.3b			
EIDC	VII 30 14 06 42.3	10.9N	63.4W	43	3.8b,4.6L			
TRN	Felt at Cariaco and environs. Seven buildings destroyed at Carupano							
NEIC	Damage.							
NEIC	Seven buildings destroyed at Carupano. Felt at Cariaco, Casanay, Chiguana, El Pilar, Rio Caribe and Yaguaraparo.							

(159) North Island, New Zealand

ISC	**VII 30 19 12 45.7**±.46	**39.99S**±.035	**175.62E**±.067	**84**±8.3	5.3b		**46**	**1-153**
WEL	VII 30 19 12 48.0	39.95S	175.66E	61	4.7L			**¶97vii4626**
WEL	Felt central North Island to Levin, maximum intensity I=IV MM							

(472) New York State

ISC	**VII 31 07 15 28.6**±.47	**43.73N**±.040	**75.40W**±.061	**5**			**32**	**1-12**
OTT	VII 31 07 15 24.2	43.4N	75.3W	10	3.4N			**¶97vii4694**
NEIC	VII 31 07 15 29.7	43.62N	75.37W	5				
OTT	Northern New York State, U.S.A. near Glenfield, 95km southeast from Kingston, Ontario, Eastern background seismic zone. Felt in Greig, Chase Lake, Lyons Falls, Moose River, Port Leydon							
NEIC	mbLg3.2(GS), Less reliable solution.							

(45) California-Mexico border region

ISC	**VII 31 08 01 28**±3.6	**32.4N**±.24	**115.19W**±.083	**19**±13			**16**	**0-8**
NEIC	VII 31 08 01 29.1	32.39N	115.18W	6				**¶97vii4700**
ECX	VII 31 08 01 30.1	32.53N	115.22W	9	3.5D			
NEIC	MD3.5(ECX), M_L3.1(PAS). Felt, After PAS.							
NEIC	Felt in the epicentral area.							

(45) California-Mexico border region

NEIC	**VII 31 08 13 32.3**	**32.41N**	**115.18W**	**6**				**2-3**
ECX	VII 31 08 13 31.7	32.57N	115.14W	9	3.2D			**¶97vii4703**
NEIC	MD3.2(ECX), M_L2.9(PAS). Felt, After PAS.							
NEIC	Felt in the epicentral area.							
ECX	Felt east of the Mexicali Valley							

(45) California-Mexico border region

NEIC	**VII 31 11 41 02.9**	**32.39N**	**115.18W**	**6**				**2-3**
ECX	VII 31 11 41 04.6	32.53N	115.27W	9	3.2D			**¶97vii4725**
NEIC	M_L3.0(PAS). Felt, After PAS.							
NEIC	Felt in the epicentral area.							
ECX	Felt east of the Mexicali Valley							

(45) California-Mexico border region

ISC	**VII 31 11 43 24**±1.8	**32.4N**±.13	**115.20W**±.067	**12**±8.4			**21**	**0-8**
NEIC	VII 31 11 43 25.2	32.40N	115.18W	6				**¶97vii4726**
ECX	VII 31 11 43 26.1	32.54N	115.20W	15	3.7D			
NEIC	MD3.7(ECX), M_L3.1(PAS). Felt, After PAS.							
NEIC	Felt in the epicentral area.							
ECX	Felt east of the Mexicali Valley							

(90) Puerto Rico region

ISC	**VII 31 14 35 22**±2.8	**18.7N**±.24	**66.69W**±.076	**30**±11			**11**	**0-1**
NEIC	VII 31 14 35 22.1	18.65N	66.69W	33				**¶97vii4744**
NEIC	MD4.0(MPR). Felt I=IV MM, Single network solution.							
NEIC	Felt in much of the western, northern and southern parts of Puerto Rico with maximum intensity IV.							

(141) Cordoba Province, Argentina

ISC	**VII 31 18 03 09.9**±.61	**31.97S**±.073	**64.56W**±.075	**33**	3.9b,3.0s		**24**	**1-152**
NEIC	VII 31 18 03 09.7	32.00S	64.55W	33				**¶97vii4773**
EIDC	VII 31 18 03 10.8	32.0S	64.7W	33	4.4L,3.7b			
NEIC	Felt I=III MM at Cordoba.							

(29) Washington State

ISC	**VIII 01 12 55 02.5**±.51	**47.30N**±.027	**123.74W**±.060	**10**±4.9	3.7b		**57**	**0-69**
EIDC	VIII 01 12 55 01.5	47.2N	123.7W	0	3.1b,3.7L			**¶97viii0066**
NEIC	VIII 01 12 55 03.0	47.30N	123.76W	0				
NEIC	MD3.3(SEA). Felt, After SEA.							

(2) Southern Alaska

ISC	**VIII 01 13 51 20.3**±.21	**61.65N**±.022	**149.57W**±.041	**36**±9.8			**99**	**0-5**
NEIC	VIII 01 13 51 20.4	61.65N	149.60W	39				**¶97viii0072**
NEIC	M_L3.5(PMR), M_L3.2(AEIC). Felt I=III MM, After AEIC.							
NEIC	Felt I=III MM at Eagle River, Palmer and Willow.							

(244) Taiwan

ISC	**VIII 01 14 28 07**±1.2	**23.27N**±.051	**121.6E**±.10	**19**±12			**20**	**0-3**
BJI	VIII 01 14 28 05.4	23.60N	121.50E	15	3.3L			**¶97viii0077**
TAP	VIII 01 14 28 07.2	23.34N	121.53E	25	4.1L			
TAP	Felt I=III J Chengkung, I Yuli							

(662) Sakhalin

SKHL	**VIII 01 16 09 17.8**	**47.14N**±.02	**142.60E**±.04	**10**				**¶97viii0087**
SKHL	K7.7 Felt I=II−III MSK at Sinegorsk, Sanatornii							

(353) Southern Iran

ISC	**VIII 01 20 07 19**±3.9	**28.88N**±.084	**52.6E**±.11	**16**±29	**4.1b**,3.4s		**44**	**3-94**
EIDC	VIII 01 20 07 18.4	28.9N	52.6E	0	3.9b,3.4s			**¶97viii0107**
NEIC	VIII 01 20 07 21.3	28.90N	52.62E	33	4.3b			
NEIC	Felt at Firuzabad.							

(135) Near coast of Central Chile

ISC	**VIII 02 00 11 52**±1.0	**31.60S**±.061	**71.6W**±.15	**40**	**3.8b**		**23**	**1-152**
NEIC	VIII 02 00 11 52.1	31.62S	71.50W	40				**¶97viii0138**
GUC	VIII 02 00 11 57.4	31.97S	71.20W	40				
EIDC	VIII 02 00 12 01.1	30.3S	71.3W	52	3.6b			
NEIC	Felt I=II MM at Illapel, La Ligua, Quintero, Salamanca, San Felipe, Santa Maria and Vina del Mar.							

(546) Austria

ISC	**VIII 02 01 36 16**±1.0	**47.87N**±.085	**15.28E**±.099	**0**			**5**	**1-2**
ISC	ML2.1 (after MOA,VKA), ML2.4 (after ARSA)							**¶97viii0147**
NEIC	Felt I=IV MSK at Mariazell, Styria (after MOA)							

(43) Southern California

ISC	**VIII 02 04 35 16.9**±.70	**34.03N**±.054	**117.23W**±.048	**8**±7.2			**26**	**0-3**
NEIC	VIII 02 04 35 17.6	34.03N	117.23W	14				**¶97viii0170**
NEIC	M_L2.7(PAS). Felt, After PAS.							

(546) Austria

ISC	**VIII 02 04 49 22.7**±.52	**46.18N**±.045	**13.68E**±.052	**10**			**21**	**0-5**
ROM	VIII 02 04 49 22.3	46.1N	13.8E	5	2.8D			**¶97viii0172**
NEIC	VIII 02 04 49 24.6	46.10N	13.80E	10				
NEIC	$M_{L2.6}$(VIE), $M_{L2.4}$(LJU)							
NEIC	Felt I=V MM at Kanal, Slovenia.							

(543) Germany

ISC	**VIII 02 18 19 14.7**±.80	**51.03N**±.090	**6.1E**±.12	**41**±21			**21**	**0-5**
NEIC	VIII 02 18 19 12.2	50.87N	6.60E	20				**¶97viii0245**
LDG	VIII 02 18 19 12.6	51.1N	6.1E		2.8L			
UCC	VIII 02 18 19 14.6	51.11N	5.97E	11	2.2L			
SZGRF	VIII 02 18 19 14.8	51.1N	6.1E	10	2.2L			
NEIC	. Less reliable solution.							
LDG	Felt I=II MSK by one person near Roermond							

(391) Albania

ISC	**VIII 03 06 37 37.4**±.42	**41.27N**±.023	**19.89E**±.025	**27**±4.7	**3.7b**,2.6s		**165**	**0-92**
PDG	VIII 03 06 37 35.1	41.1N	20.1E	9	4.1L,4.1D			**¶97viii0322**
TIR	VIII 03 06 37 35.6	41.19N	20.10E	5	3.8L			
ATH	VIII 03 06 37 36.0	41.52N	19.70E	38	4.4L			
THE	VIII 03 06 37 37.8	41.2N	20.0E	1	3.6L			
LDG	VIII 03 06 37 39.0	41.6N	20.0E		4.0L			
NEIC	VIII 03 06 37 39.5	41.36N	19.88E	60	3.4b			
EIDC	VIII 03 06 37 42.6	41.4N	19.9E	60	3.5b,3.1s			
STR	VIII 03 06 38 09.4	42.63N	17.43E	17	4.0L			
TIR	Felt I=IV MSK Elbasani and Tirana							

(244) Taiwan

ISC	**VIII 03 11 55 19.8**±.75	**23.02N**±.044	**121.42E**±.083	**22**			**16**	**0-2**
TAP	VIII 03 11 55 18.6	23.00N	121.48E	22	3.6L			**¶97viii0359**
TAP	Felt I=III J Chengkung							

(211) South of Honshū

ISC	**VIII 03 12 50 08.0**±.81	**33.90N**±.047	**139.43E**±.044	**17**±7.6	3.6b		**58**	**0-67**
JMA	VIII 03 12 50 08.8±.1	33.95N±.01	139.44E±.01	18±2	3.2			**¶97viii0363**
JMA	Felt I=II J1							

(244) Taiwan

ISC	**VIII 03 13 02 56.5**±.95	**23.83N**±.050	**121.7E**±.11	**36**±17			**21**	**0-3**
BJI	VIII 03 13 02 51.2	23.88N	121.82E	14	3.5L			**¶97viii0364**
TAP	VIII 03 13 02 55.5	23.79N	121.71E	33	4.4L			
TAP	Felt I=I J Hwalien							

(163) Cook Strait, New Zealand

ISC	**VIII 03 18 10 34.6**±.90	**40.68S**±.058	**174.6E**±.11	**126**±13			**22**	**0-6**
WEL	VIII 03 18 10 38.6	40.60S	174.60E	83	3.7L			**¶97viii0391**
WEL	Felt I=III MM Marton							

(43) Southern California

ISC	**VIII 04 07 03 23.5**±.78	**34.21N**±.050	**118.50W**±.064	**15**±8.2			**28**	**0-3**
NEIC	VIII 04 07 03 23.7	34.20N	118.57W	17				**¶97viii0470**
NEIC	ML3.1(PAS). Felt, After PAS.							
NEIC	Felt in the Reseda area.							

(244) Taiwan

ISC	**VIII 04 12 59 34**±1.3	**24.15N**±.028	**121.18E**±.046	**14**±9.8	**4.1b**		**50**	**0-168**
TAP	VIII 04 12 59 32.8	24.19N	121.15E	8	4.4L			**¶97viii0508**
BJI	VIII 04 12 59 35.1	24.35N	121.36E	29	4.4L,4.3b			
NEIC	VIII 04 12 59 36.2	24.10N	121.33E	33	4.3b			
EIDC	VIII 04 12 59 40.8	24.2N	121.3E	56	3.5b,3.9L			
TAP	Felt I=III J Sun Moon Lake, I Hwalien							
BJI	Ms4.3							
NEIC	Less reliable solution.							

(244) Taiwan

ISC	**VIII 04 21 34 16.7**±.81	**23.72N**±.063	**121.42E**±.097	**11**±9.4			**14**	**0-1**
TAP	VIII 04 21 34 15.9	23.73N	121.40E	18	3.1L			**¶97viii0555**
TAP	Felt I=III J							

(159) North Island, New Zealand

ISC	**VIII 05 02 31 31**±1.9	**40.45S**±.054	**176.4E**±.15	**29**±16	3.8b		**29**	**1-41**
WEL	VIII 05 02 31 32.8	40.43S	176.27E	30	4.0L			**¶97viii0600**
WEL	Felt Dannevirke and Weber.							

(159) North Island, New Zealand

ISC	**VIII 05 02 42 57**±1.2	**40.43S**±.066	**176.3E**±.18	**20**±13			**18**	**1-3**
WEL	VIII 05 02 42 58.6	40.44S	176.31E	31	3.8L			**¶97viii0602**
WEL	Felt Dannevirke and Weber.							

(244) Taiwan

ISC	**VIII 05 08 41 14.6**±.53	**23.03N**±.036	**121.47E**±.074	**40**±6.3	**4.0b**		**40**	**0-84**
BJI	VIII 05 08 41 11.8	22.81N	121.37E	19	4.1L,4.3b			**¶97viii0642**
TAP	VIII 05 08 41 13.5	23.02N	121.48E	20	4.6L			
EIDC	VIII 05 08 41 25.7	23.0N	121.4E	122	3.4b			
NEIC	VIII 05 08 41 26.4	22.96N	121.42E	150	4.1b			
BJI	Ms4.2							
TAP	Felt I=III J Chengkung, I Yuli							
NEIC	Less reliable solution.							

(377) Spain

ISC	**VIII 05 13 52 11**±1.5	**42.81N**±.078	**7.2W**±.13	**4**±16			**8**	**0-3**
MDD	VIII 05 13 52 12.9	42.77N	7.22W	2	3.2			**¶97viii0675**
MDD	Felt I=II MSK at Sarria−Becerrea							

(243) Taiwan region

ISC	**VIII 05 19 53 12.1**±.90	**22.98N**±.037	**121.45E**±.083	**19**±9.2	3.3b		**24**	**0-48**
BJI	VIII 05 19 53 09.2	23.13N	121.57E	15	3.3L			**¶97viii0703**
TAP	VIII 05 19 53 12.7	23.03N	121.31E	18	3.8L			

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
TAP	Felt I=III J Chengkung						
	(92) Leeward Islands						
ISC	**VIII 06 00 42 46.1**±.62	**15.75N**±.041	**60.63W**±.064	**52**±7.4	**4.4b,3.8s**	**72**	**1-89**
EIDC	VIII 06 00 42 40.9	15.8N	60.6W	0	4.3b,3.6s		¶97viii0740
TRN	VIII 06 00 42 45.4	15.7N	60.7W	42	4.1D		
NEIC	VIII 06 00 42 46.6	15.77N	60.65W	57	4.6b		
TRN	MD4.1 (after FDF). Felt I=II MM Martinique and Dominica						
	(14) Kenai Peninsula						
ISC	**VIII 06 08 06 14.6**±.18	**60.08N**±.022	**150.86W**±.036	**57**±2.9	**4.3b,3.4s**	**163**	**0-150**
BJI	VIII 06 08 06 12.2	60.10N	150.90W	37			¶97viii0772
NEIC	VIII 06 08 06 16.2	60.10N	150.93W	37	4.6b		
EIDC	VIII 06 08 06 16.7	60.2N	151.0W	59	4.0b,3.4s		
NEIC	ML4.7(PMR), ML4.3(AEIC). Felt, After AEIC.						
NEIC	Felt at Anchorage, Anchor Point, Homer and Kenai.						
	(39) Central California						
ISC	**VIII 06 11 04 36.8**±.58	**36.92N**±.051	**121.56W**±.070	**23**±6.7		**36**	**0-6**
NEIC	VIII 06 11 04 37.3	36.98N	121.47W	7			¶97viii0785
NEIC	ML4.0(BRK), Mw3.6(BRK). Felt, After GM−P.						
NEIC	MD 3.6 (GM). Felt at Gilroy.						
	(92) Leeward Islands						
ISC	**VIII 06 16 27 13**±2.4	**15.24N**±.073	**60.7W**±.21	**23**±18		**12**	**1-1**
TRN	VIII 06 16 27 12.4	15.2N	60.8W	24	3.3D		¶97viii0821
TRN	MD3.4 (after FDF). Felt I=II MM Martinique						
	(35) Near coast of Northern California						
ISC	**VIII 06 19 29 25**±1.3	**40.69N**±.031	**124.5W**±.10	**26**±9.5	3.8b,3.2s	**69**	**0-23**
EIDC	VIII 06 19 29 23.0	40.6N	124.7W	0	3.5L,3.8b		¶97viii0834
NEIC	VIII 06 19 29 26.6	40.75N	124.45W	21			
NEIC	Mw4.3(BRK), MD4.0(GM). Felt, After GM−P.						
NEIC	ML 4.0 (BRK), 3.9 (GS). Items knocked from shelves at Arcata. Felt strongly at Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Loleta, McKinleyville and Petrolia.						
	(377) Spain						
MDD	**VIII 06 20 01 32.4**	**42.77N**	**7.20W**	**11**	**2.7**		¶97viii0837
MDD	Felt I=II MSK at Sarria−Becerrea						
	(243) Taiwan region						
ISC	**VIII 07 00 31 28**±2.6	**23.69N**±.097	**122.0E**±.20	**28**±11		**18**	**0-2**
TAP	VIII 07 00 31 29.1	23.75N	121.90E	32	4.3L		¶97viii0862
TAP	Felt I=II J, I Hwalien, Chiawan						
	(405) Azores						
ISC	**VIII 07 06 28 51.4**±.58	**38.10N**±.095	**26.82W**±.070	**0**		**19**	**1-2**
ADH	VIII 07 06 28 55.2	38.26N	26.77W		3.7D		¶97viii0898
ADH	Felt on Terceira I=III MM at Porto Judeu						
	(12) Alaska Peninsula						
ISC	**VIII 07 07 56 23**±1.9	**55.7N**±.25	**157.9W**±.29	**33**		**6**	**2-6**
NEIC	VIII 07 07 56 23.3	55.73N	157.92W	33			¶97viii0906
NEIC	ML3.6(PMR). Felt I=II MM, Less reliable solution.						
NEIC	Felt I=II MM at Chignik.						
	(385) Straits of Gibraltar						
ISC	**VIII 07 19 17 25.0**±.90	**36.45N**±.043	**3.17W**±.046	**16**±9.6		**48**	**1-12**
NEIC	VIII 07 19 17 24.2	36.43N	3.17W	10			¶97viii0990
MDD	VIII 07 19 17 25.7	36.43N	3.23W	2	3.8		
LIS	VIII 07 19 17 26	36.43N	3.17W		3.3L		
LDG	VIII 07 19 17 28.0	36.6N	3.4W		3.5L		
NEIC	mbLg3.9(MDD)						
MDD	Felt I=II−III MSK at southwest Adra						
	(378) Pyrenees						
ISC	**VIII 07 20 15 42.3**±.54	**42.60N**±.034	**2.83E**±.030	**11**±4.9		**85**	**0-8**
NEIC	VIII 07 20 15 42.2	42.59N	2.86E	10			¶97viii0996
FBR	VIII 07 20 15 43.3	42.57N	2.78E	6	3.2D		
MDD	VIII 07 20 15 43.5	42.59N	2.80E	4	3.2		
LDG	VIII 07 20 15 43.9	42.6N	2.8E		3.7L		
STR	VIII 07 20 15 44.1	42.49N	2.76E	7	3.6L		
NEIC	mbLg 3.2 (MDD). Felt I=IV MM in the southeastern Pyrenees.						
MDD	Felt I=III MSK at Perpignan, France						
	(378) Pyrenees						
ISC	**VIII 07 20 36 01.3**±.46	**42.68N**±.036	**2.93E**±.047	**10**		**30**	**0-5**
NEIC	VIII 07 20 36 01.6	42.61N	2.91E	10			¶97viii1000
MDD	VIII 07 20 36 03.0	42.59N	2.82E	5	3.3		
LDG	VIII 07 20 36 03.4	42.6N	2.8E		2.8L		
NEIC	mbLg3.3(MDD)						
MDD	Felt I=II MSK at Perpignan, France						
	(546) Austria						
ISC	**VIII 07 22 28 51.3**±.59	**47.89N**±.046	**15.24E**±.050	**10**		**28**	**1-4**
SZGRF	VIII 07 22 28 57.2	47.9N	15.2E	10	2.9L		¶97viii1009
NEIC	VIII 07 22 28 57.4	48.06N	15.45E	10			
NEIC	ML2.6(VIE).						
NEIC	ML 2.6 (BRA). Felt I=IV MSK at Mariazell.						
	(366) Turkey						
ISC	**VIII 08 02 39 03.1**±.37	**39.84N**±.049	**41.96E**±.046	**11**	**4.4b,3.8s**	**125**	**2-75**
BJI	VIII 08 02 39 01.2	39.54N	41.74E	10	4.6b,4.6s		¶97viii1045
NEIC	VIII 08 02 39 01.9	39.75N	41.87E	10	4.5b		
EIDC	VIII 08 02 39 02.4	39.8N	41.8E	0	4.1b,3.7s		
ISK	VIII 08 02 39 03.3	39.71N	41.98E	11	4.4D		
NEIC	Casualties.						
NEIC	One person injured and seven houses destroyed in the Koprukoy area.						
	(359) Bulgaria						
ISC	**VIII 08 10 36 16.6**±.34	**43.08N**±.029	**27.47E**±.047	**10**	4.2b	**50**	**1-46**
EIDC	VIII 08 10 36 07.5	42.9N	28.7E	0	3.3L,3.6b		¶97viii1096
NEIC	VIII 08 10 36 09.3	42.50N	28.69E	86			
ISK	VIII 08 10 36 14.8	43.13N	27.42E	6	3.7D		
SOF	VIII 08 10 36 16.3	43.14N	27.44E	10	3.7D		
BUC	VIII 08 10 36 26.5	43.82N	27.41E		3.8D		
NEIC	Less reliable solution.						
NEIC	Felt at Provadiya, Bulgaria.						
	(232) Southern Honshū						
ISC	**VIII 08 11 59 46.1**±.89	**34.45N**±.038	**131.72E**±.040	**1**±7.5		**42**	**0-4**
JMA	VIII 08 11 59 46.7±.0	34.46N±.00	131.71E±.00	10±1	3.5		¶97viii1114
JMA	Felt I=II J1						
	(244) Taiwan						
ISC	**VIII 08 18 27 39.3**±.96	**23.23N**±.043	**121.34E**±.074	**5**±7.8		**18**	**0-3**
TAP	VIII 08 18 27 38.6	23.24N	121.35E	11	3.8L		¶97viii1148
TAP	Felt I=III J Chengkung						
	(230) Near south coast of Honshū						
ISC	**VIII 08 20 34 48.2**±.18	**35.81N**±.018	**139.46E**±.023	**76**±1.7	**4.8b**	**358**	**0-159**
BJI	VIII 08 20 34 45.6	35.92N	139.69E	72	4.9b,4.4s		¶97viii1161
MOS	VIII 08 20 34 46.6	35.8N	139.5E	66	5.5b,4.2s		
NEIC	VIII 08 20 34 47.1	35.70N	139.36E	68	4.9b		
EIDC	VIII 08 20 34 48.0	35.7N	139.5E	64	4.7b,4.0s		
JMA	VIII 08 20 34 48.6±.1	35.83N±.01	139.50E±.01	67±2	4.7		
HRVD	VIII 08 20 34 49.6±.1	35.37N±.01	139.22E±.01	80±1.0			
NEIC	Mw5.1(HRV).						
JMA	Felt I=III J1						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}1.93±.32; $M_{\theta\theta}$0.76±.63; $M_{\phi\phi}$−2.69±.71; $M_{r\theta}$−4.11±.37; $M_{r\phi}$0.03±.65; $M_{\theta\phi}$−0.72±.44. Principal Axes: T 5.53,Plg49°,Azm185°; N −2.23,Plg28°,Azm58°; P −3.29,Plg27°,Azm312°. Best double couple: $M_0$4.4×10^{16}Nm, NP1: ϕ_S355°,δ31°,λ23°. NP2:ϕ_S244°,δ78°,λ119°.						
	(135) Near coast of Central Chile						
ISC	**VIII 09 14 23 41**±1.5	**32.45S**±.098	**71.8W**±.18	**50**±23	3.3b	**20**	**1-68**
EIDC	VIII 09 14 23 36.3	32.4S	72.6W	0	3.8L,3.3b		¶97viii1266
NEIC	VIII 09 14 23 39.4	32.37S	71.84W	33			
GUC	VIII 09 14 23 42.0	32.47S	71.60W	35	4.4D		
NEIC	Felt I=III MM at Quillota, Quilpue, Villa Alemana and Vina del Mar; II MM at Concon, La Ligua, Llaillay, Puchuncavi, San Felipe, Valparaiso and Zapallar.						
	(463) Nebraska						
ISC	**VIII 09 17 46 04.2**±.48	**41.77N**±.053	**97.13W**±.060	**5**	3.2b	**23**	**4-36**
NEIC	VIII 09 17 46 03.9	41.80N	97.19W	5			¶97viii1296
EIDC	VIII 09 17 46 05.5	41.8N	97.3W	0	4.1L,3.2b		
OTT	VIII 09 17 46 08.7	41.7N	97.2W	5	3.6N		
NEIC	mbLg3.4(GS)						
NEIC	Felt I=IV MM in the Leigh-Clarkson-Howells area. Felt III MM at Dodge and II MM at West Point.						
OTT	Nebraska, USA.						
	(45) California-Mexico border region						
ISC	**VIII 09 23 40 53**±2.2	**32.3N**±.15	**115.11W**±.081	**6**		**25**	**0-8**
NEIC	VIII 09 23 40 54.1	32.30N	115.12W	6			¶97viii1321
ECX	VIII 09 23 40 55.3	32.49N	115.17W	8	3.9D		
NEIC	ML3.1(PAS). Felt, After PAS.						
NEIC	Felt in the epicentral area.						
ECX	Felt Mexicali Valley						
	(45) California-Mexico border region						
ISC	**VIII 10 00 54 07**±1.8	**32.4N**±.11	**115.11W**±.055	**6**±8.3		**27**	**0-8**
NEIC	VIII 10 00 54 06.9	32.31N	115.12W	6			¶97viii1329
ECX	VIII 10 00 54 07.6	32.50N	115.12W	8	3.6D		
NEIC	ML3.0(PAS). Felt, After PAS.						
NEIC	Felt in the epicentral area.						
ECX	Felt Mexicali Valley						
	(45) California-Mexico border region						
ISC	**VIII 10 01 50 36**±2.0	**32.4N**±.13	**115.16W**±.086	**6**		**20**	**0-3**
NEIC	VIII 10 01 50 35.9	32.31N	115.12W	6			¶97viii1337
ECX	VIII 10 01 50 36.8	32.44N	115.12W	16	3.4D		
NEIC	ML3.1(PAS). Felt, After PAS.						
NEIC	Felt in the epicentral area.						
ECX	Felt Mexicali Valley						
	(590) Western Australia						
ISC	**VIII 10 09 20 31.1**±.17	**16.05S**±.031	**124.42E**±.037	**10**	**5.8b,5.9s**	**509**	**2-170**
EIDC	VIII 10 09 20 30.6	16.1S	124.4E	0	5.6b,5.8s		¶97viii1378
BJI	VIII 10 09 20 30.8	16.10S	124.52E	15	5.7b,5.9s		
NEIC	VIII 10 09 20 30.9	16.01S	124.33E	10	5.9b,6.0s		
AUST	VIII 10 09 20 31.0	15.92S	124.27E	10	6.0L		
MOS	VIII 10 09 20 31.9	15.9S	124.5E	10	6.2b,5.7s		
HRVD	VIII 10 09 20 38.0±.1	15.98S±.01	124.48E±.01	15			
NEIC	Me6.6(GS), Mw6.3(GS).						
NEIC	Radiated energy from the P−wave first−motion solution: 2.1±0.6×10^{14}Nm/8						
NEIC	Mw 6.2 (HRV). Ms 6.0 (BRK). Felt in many parts of northwestern Australia.						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S205°,δ75°,λ165°. NP2:ϕ_S299°,δ76°,λ16°. Principal axes: T Plg21°,Azm162°; P Plg0°,Azm72°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s19, scale 10^{18}Nm; M_{rr}−0.01; $M_{\theta\theta}$1.95; $M_{\phi\phi}$−1.94; $M_{r\theta}$−0.57; $M_{r\phi}$−0.64; $M_{\theta\phi}$1.71. Depth 12km; Principal axes: T 2.81,Plg15°,Azm158°; N −0.15,Plg72°, Azm10°; P −2.65,Plg9°,Azm251°. Best double couple: $M_0$2.7×10^{18}Nm; NP1:ϕ_S295°,δ73°, λ4°. NP2:ϕ_S204°,δ86°,λ163°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c121; Mantle waves: s49,c93; Half duration: 3s0. Moment tensor: Scale 10^{18}Nm; M_{rr}0.33±.02; $M_{\theta\theta}$1.39±.01; $M_{\phi\phi}$−1.72±.02; $M_{r\theta}$−1.21±.06; $M_{r\phi}$−0.91±.06; $M_{\theta\phi}$1.38±.01. Principal Axes: T 2.79,Plg31°,Azm156°; N −0.46,Plg57°,Azm0°; P −2.33,Plg11°,Azm253°. Best double couple: $M_0$2.6×10^{18}Nm, NP1:ϕ_S299°,δ60°,λ15°. NP2:ϕ_S201°,δ77°,λ149°.						
	(383) Northwestern Balkan region						
ISC	**VIII 10 10 48 24.9**±.82	**46.59N**±.040	**16.32E**±.074	**8**±5.8		**47**	**1-8**
NEIC	VIII 10 10 48 24.1	46.49N	16.45E	10			¶97viii1382
SZGRF	VIII 10 10 48 26.8	46.5N	16.3E	10	3.6L		
NEIC	ML3.4(VIE)						
NEIC	ML 3.2 (LJU). Felt I=IV MM in the Lendava-Turnisce area, Slovenia. Also felt at Lenti, Hungary.						
	(546) Austria						
ISC	**VIII 10 15 35 53.4**±.83	**47.82N**±.064	**15.28E**±.077	**10**		**14**	**1-4**
SZGRF	VIII 10 15 36 01.3	47.9N	15.1E	10	2.5L		¶97viii1415
NEIC	Felt I=III MSK at Mariazell (after MOA)						
	(233) Near south coast of Southern Honshū						
ISC	**VIII 10 18 25 32.0**±.30	**33.51N**±.037	**135.01E**±.026	**46**±5.7	**3.9b**	**98**	**0-96**
NEIC	VIII 10 18 25 30.6	33.47N	134.97E	33			¶97viii1437
JMA	VIII 10 18 25 31.9±.1	33.54N±.01	135.02E±.01	51±3	3.9		
EIDC	VIII 10 18 25 32.8	33.5N	135.0E	35	3.8b,3.6L		
JMA	Felt I=II J1						
	(45) California-Mexico border region						
ECX	**VIII 10 21 48 14.8**	**32.37N**	**115.05W**	**7**	**3.4D**		**¶97viii1461**
ECX	Felt Mexicali Valley						
	(45) California-Mexico border region						
ISC	**VIII 10 22 09 53**±1.1	**32.36N**±.089	**115.20W**±.049	**6**	3.7b	**39**	**0-38**
EIDC	VIII 10 22 09 52.3	31.9N	115.6W	0	3.2L,3.8b		¶97viii1465
NEIC	VIII 10 22 09 53.0	32.30N	115.13W	6	3.8b		
ECX	VIII 10 22 09 54.3	32.44N	115.16W	4	3.5D		
NEIC	ML3.4(PAS). Felt, After PAS.						
NEIC	Felt in the Yuma, Arizona area.						
ECX	Felt Mexicali Valley						
	(48) Lower California						
ISC	**VIII 10 22 10 14**±6.4	**31.9N**±.24	**115.3W**±.21	**24**±48	3.9b	**9**	**2-38**
EIDC	VIII 10 22 10 12.8	31.9N	115.4W	0	3.5L,4.1b		¶97viii1466
ECX	VIII 10 22 10 17.0	32.52N	115.52W	10	4.1D		
ECX	Felt Mexicali Valley						
	(221) Kuril Islands						
ISC	**VIII 10 22 38 06.4**±.53	**43.02N**±.027	**146.32E**±.063	**78**±4.3	**4.3b**	**150**	**1-155**
MOS	VIII 10 22 38 05.6	43.1N	146.2E	69	4.8b		¶97viii1470
BJI	VIII 10 22 38 06.6	43.31N	146.15E	74	4.7b		
NEIC	VIII 10 22 38 06.8	43.18N	146.18E	75	4.4b		
SKHL	VIII 10 22 38 08.0	43.2N±.07	146.1E±.19	79±3			
EIDC	VIII 10 22 38 08.5	43.3N	146.1E	72	4.0b,3.4s		
JMA	VIII 10 22 38 09.0±.3	43.11N±.02	146.10E±.03	70±2	4.5		
SKHL	K10 Felt I=II−III MSK at Juzhno−Kurilsk						
JMA	Felt I=II J1						

(662) Sakhalin

ISC	**VIII 11 01 25 40.7**±.42	**46.80N**±.038	**143.66E**±.088	**8**	**4.0b**	**28**	**1-83**
EIDC	VIII 11 01 25 40.6	46.7N	143.6E	0	3.9b		¶97viii1488
JMA	VIII 11 01 25 42.5±.6	46.48N±.04	143.74E±.03	0	3.4		
SKHL	VIII 11 01 25 42.5	47.02N±.10	143.55E±.10	8			
MOS	VIII 11 01 25 44.1	46.7N	143.4E	33	4.5b		
NEIC	VIII 11 01 26 02.3	46.90N	143.27E	200	4.3b		

SKHL K7.9 Felt I=III MSK at Lighthouse Tonina, Cape Svobodnii; I=I−II MSK at Lesnoe
NEIC Poor solution.

(244) Taiwan

ISC	**VIII 11 04 48 59.1**±.38	**23.02N**±.028	**121.00E**±.045	**3**	**3.7b**	**32**	**0-84**
TAP	VIII 11 04 48 58.2	23.06N	121.00E	3	4.2L		¶97viii1504
BJI	VIII 11 04 49 00.0	23.21N	121.09E	13	4.0L,3.6s		
EIDC	VIII 11 04 49 00.7	22.9N	121.0E	0	3.7b		
NEIC	VIII 11 04 49 03.3	22.95N	121.10E	33			

TAP Felt I=II J
NEIC Single network solution.

(216) Marianas

ISC	**VIII 11 05 20 45.1**±.89	**18.70N**±.032	**145.85E**±.055	**168**±8.5	**4.9b**	**187**	**3-166**
BJI	VIII 11 05 20 43.1	18.93N	146.19E	162	4.5b		¶97viii1508
NEIC	VIII 11 05 20 43.8	18.79N	145.82E	156	5.1b		
MOS	VIII 11 05 20 43.9	18.8N	145.9E	162	5.2b		
EIDC	VIII 11 05 20 46.4	18.8N	146.0E	170	4.4b		

NEIC Felt on Saipan.

(546) Austria

ISC	**VIII 11 09 05 55.9**±.46	**47.35N**±.030	**11.33E**±.050	**7**±4.8		**45**	**0-5**
NEIC	VIII 11 09 05 56.1	47.30N	11.33E	10			¶97viii1536
SZGRF	VIII 11 09 05 56.9	47.3N	11.4E	10	2.8L		
LDG	VIII 11 09 06 01.1	47.4N	11.1E		2.9L		
STR	VIII 11 09 06 01.9	47.51N	11.08E	10	3.1L		

NEIC ML 3.0 (FUR), 2.7 (VIE). Felt I=III MSK at Innsbruck.

(244) Taiwan

ISC	**VIII 11 14 22 56.9**±.65	**24.04N**±.043	**121.56E**±.081	**20**±6.9		**20**	**0-3**
TAP	VIII 11 14 22 56.4	24.08N	121.51E	17	3.8L		¶97viii1575

TAP Felt I=III J Hwalien, II Chiawan, Tachien

(121) Off coast of Northern Chile

ISC	**VIII 11 15 19 01**±2.6	**24.2S**±.11	**71.0W**±.19	**40**±25	**3.7b**	**11**	**5-130**
EIDC	VIII 11 15 18 58.0	24.3S	70.7W	0	3.9L,3.7b		¶97viii1578
NEIC	VIII 11 15 19 00.6	24.23S	70.66W	33			

NEIC Less reliable solution.
NEIC Felt I=II MM at Antofagasta.

(45) California-Mexico border region

ECX	**VIII 11 18 44 49.7**	**32.39N**	**115.13W**	**3**	**3.6D**		¶97viii1606
NEIC	VIII 11 18 44 48.9	32.33N	115.12W	6			

ECX Felt Mexicali Valley
NEIC ML2.8(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.

(662) Sakhalin

ISC	**VIII 12 02 23 36.9**±.50	**52.77N**±.052	**142.8E**±.13	**10**	**4.0b**	**19**	**1-80**
BJI	VIII 12 02 23 30.4	52.20N	144.00E	10	4.1b,4.8s		¶97viii1665
SKHL	VIII 12 02 23 35.7	52.78N±.05	142.79E±.10	9±2			
NEIC	VIII 12 02 23 38.4	52.22N	144.38E	10			
EIDC	VIII 12 02 23 38.5	52.3N	144.4E	0	3.9b,4.4L		

SKHL K9.5 Felt I=II−III MS at Okha
NEIC Less reliable solution.

(533) United Kingdom

BGS	**VIII 12 03 05 53.4**	**53.06N**	**1.08W**	**1**	**1.1L**		¶97viii1671

BGS Felt I=IV+ MSK,Oxton, Nottinghamshire

(244) Taiwan

ISC	**VIII 12 06 04 38.2**±.61	**23.19N**±.035	**120.71E**±.050	**2**±8.6		**18**	**0-2**
TAP	VIII 12 06 04 37.3	23.19N	120.74E	5	3.7L		¶97viii1688

TAP Felt I=III J, I Chiayi

(535) Southern Norway

ISC	**VIII 12 08 14 21.5**±.80	**59.76N**±.080	**6.75E**±.096	**13**		**16**	**0-10**
HEL	VIII 12 08 14 24	59.82N	6.63E		3.3L		¶97viii1699
BER	VIII 12 08 14 24.5	59.8N	6.5E	13	2.9D,3.0L		
BGS	VIII 12 08 14 24.8	59.77N	6.31E	15	3.0L		

HEL Felt,Md3.3

(244) Taiwan

ISC	**VIII 12 09 14 20**±3.4	**24.39N**±.063	**121.9E**±.37	**11**		**9**	**0-1**
TAP	VIII 12 09 14 20.3	24.44N	121.86E	11	3.0L		¶97viii1711

TAP Felt I=III J

(244) Taiwan

ISC	**VIII 12 09 21 00**±8.3	**24.4N**±.14	**122.0E**±.74	**7**±22		**7**	**0-1**
TAP	VIII 12 09 21 00.0	24.42N	121.87E	13	2.7L		¶97viii1712

TAP Felt I=III J

(244) Taiwan

ISC	**VIII 12 09 22 10**±6.7	**24.4N**±.13	**121.9E**±.61	**3**±22		**7**	**0-1**
TAP	VIII 12 09 22 09.5	24.41N	121.89E	11	3.0L		¶97viii1713

TAP Felt I=II J

(244) Taiwan

ISC	**VIII 12 11 09 28.8**±.57	**22.90N**±.036	**120.65E**±.046	**1**±7.0		**22**	**0-3**
BJI	VIII 12 11 09 05.1	21.66N	122.30E	21	3.8L		¶97viii1729
TAP	VIII 12 11 09 28.2	22.90N	120.62E	7	4.1L		

TAP Felt I=II J

(115) Near coast of Peru

ISC	**VIII 12 11 31 26.6**±.94	**16.53S**±.043	**73.33W**±.047	**47**±9.1	**5.1b,4.4s**	**187**	**2-172**
NEIC	VIII 12 11 31 27.3	16.56S	73.40W	55	5.3b		¶97viii1738
BJI	VIII 12 11 31 27.8	16.66S	73.07W	52	5.2s		
EIDC	VIII 12 11 31 27.8	16.5S	73.2W	50	4.8b,3.8s		
MOS	VIII 12 11 31 31.2	16.3S	73.2W	79	5.3b		

NEIC Felt I=II MM at Arequipa.

(38) Off coast of California

ISC	**VIII 12 12 34 28**±1.5	**32.8N**±.12	**118.40W**±.076	**5**		**32**	**1-5**
ECX	VIII 12 12 34 28.4	32.85N	118.37W	5	3.7D		¶97viii1748
NEIC	VIII 12 12 34 30.0	32.84N	118.40W	17			

NEIC ML3.6(PAS). Felt, After PAS.

(246) South-western Ryūkyū Islands

ISC	**VIII 13 04 45 03.2**±.32	**25.13N**±.018	**125.87E**±.019	**40**±2.9	**6.0b,5.7s**	**858**	**1-177**
BJI	VIII 13 04 45 03.9	25.09N	125.98E	60	5.5L,5.9b		¶97viii1852
JMA	VIII 13 04 45 04.0±.2	25.19N±.04	125.82E±.03	94±4	6.2		
NEIC	VIII 13 04 45 04.8	25.03N	125.77E	55	6.0b,5.6s		
MOS	VIII 13 04 45 05.4	25.3N	125.7E	54	6.7b,5.7s		
HRVD	VIII 13 04 45 07.0±.2	24.90N±.02	125.88E±.02	57			
EIDC	VIII 13 04 45 07.4	25.1N	125.9E	66	5.5b		

BJI Ms5.9
JMA Felt I=IV J1
NEIC Mw6.2(GS), Me5.7(GS). Felt I=VI MM.
NEIC Mw 6.2 (HRV). Felt I=IV J on Miyako-jima.
NEIC Radiated energy from the P−wave first−motion solution: 8.3±1.3×10^{12}Nm/11
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S350°,δ65°,λ110°. NP2:ϕ_S129°,δ32°,λ54°. Principal axes: T Plg64°,Azm294°; P Plg18°,Azm65°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s31, scale 10^{18}Nm; M_{rr}1.52; $M_{\theta\theta}$−0.67; $M_{\phi\phi}$−0.85; $M_{r\theta}$−0.17; $M_{r\phi}$1.12; $M_{\theta\phi}$0.83. Depth 54km; Principal axes: T 1.98,Plg67°,Azm279°; N −0.10,Plg15°, Azm148°; P −1.88,Plg16°,Azm54°. Best double couple: $M_0$1.9×10^{18}Nm; NP1:ϕ_S122°,δ32°, λ60°. NP2:ϕ_S336°,δ63°,λ107°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c44; Mantle waves: s34,c43; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}1.49±.02; $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$−1.57±.03; $M_{r\theta}$0.07±.03; $M_{r\phi}$0.73±.03; $M_{\theta\phi}$0.79±.02. Principal Axes: T 1.69,Plg73°,Azm303°; N 0.32,Plg14°,Azm162°; P −2.01,Plg11°,Azm70°. Best double couple: $M_0$1.9×10^{18}Nm, NP1:ϕ_S143°,δ36°,λ67°. NP2:ϕ_S351°,δ57°,λ106°.

(307) Sichuan Province

ISC	**VIII 13 08 13 32**±1.4	**29.41N**±.033	**105.61E**±.041	**23**±10	**4.6b,4.4s**	**167**	**2-166**
BJI	VIII 13 08 13 30.6	29.45N	105.63E	17	4.9L,4.6b		¶97viii1874
MOS	VIII 13 08 13 33.3	29.5N	105.7E	33	5.1b,4.4s		
NEIC	VIII 13 08 13 33.4	29.43N	105.60E	37	4.8b,4.3s		
EIDC	VIII 13 08 13 35.1	29.5N	105.6E	35	4.2b,4.4L		

BJI Ms4.9
NEIC Some damage in the Chongqing area. Also felt at Longchang.

(320) Kirgiziya-Xinjiang border region

ISC	**VIII 13 14 30 12.8**±.66	**41.92N**±.032	**79.69E**±.031	**48**±6.3	**5.0b,4.6s**	**284**	**1-158**
BJI	VIII 13 14 30 10.5	42.01N	79.75E	29	5.0b,4.6s		¶97viii1919
NEIC	VIII 13 14 30 10.9	41.91N	79.70E	33	5.0b,4.6s		
MOS	VIII 13 14 30 11.0	42.0N	79.9E	33	5.2b,4.6s		
EIDC	VIII 13 14 30 14.5	41.9N	79.7E	54	4.6b,4.4s		

NEIC Felt I=III MM at Alma−Ata, Kazakhstan and Karakol, Kyrgyzstan.
MOS Felt I=III MSK at Przevalsk; I=II−III at Alma−Ata.

(43) Southern California

ISC	**VIII 13 14 43 56.1**±.55	**34.17N**±.054	**117.34W**±.057	**6**		**17**	**0-3**
NEIC	VIII 13 14 43 56.5	34.15N	117.33W	6			¶97viii1920

NEIC ML3.0(PAS). Felt, After PAS.

(45) California-Mexico border region

ISC	**VIII 13 15 02 02**±2.4	**32.3N**±.18	**115.11W**±.075	**21**±13		**21**	**0-4**
NEIC	VIII 13 15 02 02.6	32.29N	115.13W	6			¶97viii1926
ECX	VIII 13 15 02 03.0	32.53N	115.18W	7	3.4D		

NEIC ML3.0(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt Mexicali Valley

(135) Near coast of Central Chile

ISC	**VIII 13 19 26 49.6**±.84	**28.66S**±.047	**71.20W**±.072	**56**±9.0	**4.5b,4.0s**	**74**	**3-166**
NEIC	VIII 13 19 26 48.1	28.61S	71.25W	41	4.6b		¶97viii1948
EIDC	VIII 13 19 26 49.8	28.5S	71.1W	42	4.3b,4.0s		
BJI	VIII 13 19 26 50.1	28.53S	71.14W	31			

NEIC Felt I=V MM at Freirina, Huasco and Vallenar; IV MM at Alto del Carmen and Copiapo.

(236) Shikoku

ISC	**VIII 14 01 44 51.7**±.34	**33.40N**±.046	**132.99E**±.033	**33**±15		**53**	**0-5**
JMA	VIII 14 01 44 51.1±.1	33.35N±.01	132.99E±.01	41±2	3.7		¶97viii1990

JMA Felt I=II J1

(245) North-east of Taiwan

ISC	**VIII 14 02 57 30.8**±.35	**25.22N**±.045	**124.19E**±.051	**141**±4.3	**4.2b**	**59**	**1-93**
BJI	VIII 14 02 57 28.8	25.17N	124.28E	130	4.6b		¶97viii1994
NEIC	VIII 14 02 57 29.0	25.30N	124.31E	125	4.4b		
JMA	VIII 14 02 57 31.4±.3	25.33N±.03	124.07E±.03	122	4.2		
EIDC	VIII 14 02 57 34.0	25.3N	124.1E	152	3.8b,3.3s		

NEIC Felt, Less reliable solution.
NEIC Felt at Taipei and in much of Taiwan.

(178) Kermadec Islands

ISC	**VIII 14 05 34 48**±1.1	**29.3S**±.22	**178.2W**±.16	**50**±13	**4.6b**	**30**	**0-158**
NEIC	VIII 14 05 35 20.5	29.54S	178.81W	350	4.1b		¶97viii2014
EIDC	VIII 14 05 35 21.6	29.8S	178.7W	361	3.8b		

WEL Felt I=III MM Raoul Island
NEIC Less reliable solution.

(39) Central California

ISC	**VIII 14 08 53 35.6**±.69	**37.72N**±.041	**122.56W**±.061	**13**±4.3		**26**	**0-3**
NEIC	VIII 14 08 53 35.6	37.74N	122.55W	2			¶97viii2032

NEIC MD3.0(GM), ML3.0(BRK). Felt, After GM−P.
NEIC Felt in the Mission District of San Francisco.

(80) Panama-Costa Rica border region

ISC	**VIII 14 12 05 08.2**±.99	**9.5N**±.16	**82.9W**±.20	**300**	**3.5b**	**16**	**24-152**
EIDC	VIII 14 12 04 58.3	9.3N	82.8W	191	3.6b		¶97viii2053
NEIC	VIII 14 12 04 59.1	9.69N	82.62W	200	4.7b		

NEIC Felt, Less reliable solution.
NEIC Felt in western Panama.

(244) Taiwan

ISC	**VIII 14 14 50 29**±1.4	**24.46N**±.093	**121.7E**±.15	**6**		**4**	**0-1**
TAP	VIII 14 14 50 28.8	24.46N	121.72E	6	1.8L		¶97viii2081

ISC Poorly determined
TAP Felt I=III J

(546) Austria

ISC	**VIII 15 00 37 45.3**±.74	**47.97N**±.062	**15.27E**±.073	**5**		**19**	**1-5**
NEIC	VIII 15 00 37 45.4	47.89N	15.44E	5			¶97viii2137
SZGRF	VIII 15 00 37 51.3	48.4N	15.4E	5	2.5L		

NEIC ML2.4(VIE), Less reliable solution.
NEIC Felt I=IV MSK at Frankenfels.

(236) Shikoku

ISC	**VIII 15 01 29 06.8**±.31	**33.49N**±.043	**132.35E**±.034	**59**±7.6	3.7b	**61**	**0-74**
JMA	VIII 15 01 29 06.9±.0	33.50N±.01	132.35E±.01	52±2	3.9		¶97viii2141

JMA Felt I=II J1

(613) Hawaiian Islands

ISC	**VIII 15 01 54 37**±1.4	**19.47N**±.069	**155.22W**±.052	**3**±9.3	**4.6b**	**70**	**0-93**
BJI	VIII 15 01 54 35.1	19.29N	154.77W	5	5.0b		¶97viii2143
NEIC	VIII 15 01 54 37.8	19.37N	155.14W	10	4.6b		
EIDC	VIII 15 01 54 37.8	19.4N	155.1W	0	4.4b		

NEIC Felt throughout the Island of Hawaii.

(224) Hokkaido region

ISC	**VIII 15 06 12 04.0**±.37	**42.93N**±.023	**145.94E**±.043	**82**±3.1	**4.8b**	**336**	**0-153**
MOS	VIII 15 06 11 59.0	43.2N	145.9E	31	5.4b		¶97viii2168
BJI	VIII 15 06 11 59.3	42.97N	146.19E	46	4.8b,5.1s		
NEIC	VIII 15 06 11 59.3	43.21N	145.84E	33	4.9b,4.0s		
EIDC	VIII 15 06 12 05.0	43.1N	145.8E	74	4.3b		
SKHL	VIII 15 06 12 05.0	43.1N±.06	146.0E±.11	88±2			
JMA	VIII 15 06 12 05.8±.3	43.02N±.02	145.88E±.02	70±3	4.6		

SKHL K11 Felt I=II−III MSK at Juzhno−Kurilsk

(244) Taiwan

ISC	**VIII 15 10 49 16.0**±.82	**24.69N**±.046	**121.76E**±.079	**2**±11		**13**	**0-1**
TAP	VIII 15 10 49 14.8	24.70N	121.76E	11	3.3L		¶97viii2205

TAP Felt I=III J

(228) Near east coast of Honshū

ISC	**VIII 15 16 08 20.4**±.44	**38.47N**±.027	**142.32E**±.061	**46**±4.1	**4.2b**	**130**	**1-146**
MOS	VIII 15 16 08 18.6	38.4N	142.3E	35	4.8b		¶97viii2235

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
BJI	VIII 15 16 08 19.4	38.21N	142.18E	44	4.5b		
NEIC	VIII 15 16 08 20.2	38.43N	142.16E	40	4.5b		
JMA	VIII 15 16 08 20.4±.1	38.44N±.00	142.22E±.01	46±2	4.1		
EIDC	VIII 15 16 08 22.0	38.4N	142.3E	43	3.9b,3.7L		
JMA	Felt I=II J1						
	(1) Central Alaska						
ISC	**VIII 16 05 12 51.6**±.19	**62.47N**±.021	**150.91W**±.050	**102**±2.8	**4.1b**	**160**	**0-146**
BJI	VIII 16 05 12 50.7	62.55N	150.90W	108	4.4b		¶97viii2319
EIDC	VIII 16 05 12 53.3	62.6N	151.0W	92	4.0b,3.2s		
NEIC	VIII 16 05 12 53.6	62.44N	150.97W	89	4.2b		
NEIC	Felt I=III MM, After AEIC.						
NEIC	Felt I=III MM at Willow, II at Anchorage (after PMR)						
	(244) Taiwan						
ISC	**VIII 16 06 31 14**±2.1	**23.75N**±.079	**121.9E**±.18	**24**±9.8		**14**	**0-2**
TAP	VIII 16 06 31 14.5	23.79N	121.77E	32	3.9L		¶97viii2327
TAP	Felt I=III J, II Chiawan, I Hwalien						
	(244) Taiwan						
ISC	**VIII 17 01 55 44.9**±.48	**23.51N**±.036	**120.92E**±.053	**6**		**18**	**0-2**
TAP	VIII 17 01 55 43.6	23.49N	120.92E	6	4.1L		¶97viii2454
TAP	Felt I=III J Alishan, I Chiayi						
	(2) Southern Alaska						
ISC	**VIII 17 10 40 01.9**±.37	**61.38N**±.041	**150.10W**±.070	**69**±5.6	**3.3b**	**43**	**0-44**
EIDC	VIII 17 10 39 58.8	61.2N	149.4W	0	3.5b,3.6L		¶97viii2523
NEIC	VIII 17 10 40 03.4	61.40N	150.19W	52			
NEIC	ML3.6(AEIC), ML3.5(PMR). Felt I=III MM, After AEIC.						
NEIC	Felt I=III MM at Eagle River.						
	(43) Southern California						
ISC	**VIII 17 16 18 23**±6.8	**34.3N**±.24	**118.6W**±.55	**12**		**4**	**0-3**
NEIC	VIII 17 16 18 24.8	34.27N	118.56W	12			¶97viii2562
ISC	Poorly determined						
NEIC	ML2.4(PAS). Felt, After PAS.						
	(391) Albania						
ISC	**VIII 17 20 29 57.9**±.89	**40.60N**±.035	**19.95E**±.037	**0**±7.8		**40**	**0-8**
TIR	VIII 17 20 29 57.8	40.61N	20.03E	9	3.1L		¶97viii2585
THE	VIII 17 20 29 59.3	40.6N	19.7E	19	3.1L		
PDG	VIII 17 20 30 00.1	40.7N	19.4E	10	3.3L		
ATH	VIII 17 20 30 02.4	40.38N	20.08E	20	3.4D		
TIR	Felt I=III–IV MSK Berati and weakly at Tepelena						
	(243) Taiwan region						
ISC	**VIII 17 23 16 01**±1.6	**22.69N**±.082	**121.8E**±.13	**17**	3.5b	**18**	**1-80**
TAP	VIII 17 23 16 00.5	22.72N	121.74E	17	4.2L		¶97viii2598
TAP	Felt I=II J Chengkung						
	(159) North Island, New Zealand						
ISC	**VIII 18 09 09 27.3**±.64	**40.83S**±.046	**175.09E**±.078	**40**±16		**21**	**0-3**
NEIC	VIII 18 09 09 27.3	40.80S	175.09E	33			¶97viii2651
WEL	VIII 18 09 09 27.7	40.82S	175.12E	30	3.8L		
NEIC	Single network solution.						
WEL	Felt Wellington.						
	(127) Chile-Argentina border region						
ISC	**VIII 18 10 10 54**±1.1	**24.05S**±.058	**68.54W**±.076	**95**±11	**4.4b**	**65**	**3-167**
NEIC	VIII 18 10 10 55.3	23.99S	68.54W	103	4.6b		¶97viii2659
EIDC	VIII 18 10 10 56.5	24.0S	68.6W	103	4.1b		
NEIC	Felt I=IV MM in the epicentral area and II MM at Antofagasta.						
	(135) Near coast of Central Chile						
ISC	**VIII 18 12 24 26.6**±.21	**29.90S**±.032	**71.96W**±.053	**33**	**4.9b,5.1s**	**182**	**3-168**
EIDC	VIII 18 12 24 22.4	29.8S	72.0W	0	4.7b,5.3s		¶97viii2678
NEIC	VIII 18 12 24 26.2	29.93S	72.01W	33	5.0b,5.0s		
MOS	VIII 18 12 24 26.8	29.9S	71.6W	33	5.2b,4.9s		
BJI	VIII 18 12 24 27.7	29.88S	71.85W	41	6.0s		
HRVD	VIII 18 12 24 30.8±.2	30.08S±.02	72.42W±.02	15			
NEIC	Mw5.7(HRV)						
NEIC	Felt I=IV MM at La Higuera and La Serena.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c84; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}3.15±.06; $M_{\theta\theta}$−0.18±.09; $M_{\phi\phi}$−2.96±.08; $M_{r\theta}$0.24±.19; $M_{r\phi}$−2.77±.21; $M_{\theta\phi}$−0.03±.06. Principal Axes: T 4.23,Plg69°,Azm82°; N −0.19, Plg3°,Azm178°; P −4.03,Plg21°,Azm269°. Best double couple: $M_0$4.1×10^{17}Nm, NP1:ϕ_S4°, δ24°,λ96°. NP2:ϕ_S177°,δ66°,λ87°.						
	(244) Taiwan						
ISC	**VIII 18 13 54 04**±5.5	**24.4N**±.14	**121.9E**±.49	**15**		**4**	**0-1**
TAP	VIII 18 13 54 04.4	24.41N	121.89E	15	2.3L		¶97viii2685
ISC	Poorly determined						
TAP	Felt I=II J						
	(383) Northwestern Balkan region						
ISC	**VIII 19 00 47 57.1**±.67	**41.45N**±.049	**22.66E**±.069	**15**		**12**	**0-2**
SOF	VIII 19 00 47 57.0	41.47N	22.62E	0	3.1D		¶97viii2737
SKO	VIII 19 00 47 57.7	41.37N	22.60E	15			
THE	VIII 19 00 47 59.0	41.4N	22.7E	11	2.6L		
SKO	Felt I=III–V MSK at Strumica						
	(132) Santiago del Estero Province, Argentina						
ISC	**VIII 19 02 55 36**±1.9	**28.78S**±.046	**64.49W**±.079	**30**±14	**4.3b**	**43**	**1-149**
NEIC	VIII 19 02 55 36.3	28.77S	64.46W	33	4.3b		¶97viii2750
EIDC	VIII 19 02 55 37.0	28.8S	64.6W	26	4.2b,3.8L		
NEIC	Slight damage in the Frias-Choya-Lavalle area. Felt at La Banda and Santiago del Estero.						
	(216) Marianas						
ISC	**VIII 19 16 09 54.9**±.75	**13.42N**±.097	**144.8E**±.35	**107**±8.5	**3.9b**	**14**	**0-148**
EIDC	VIII 19 16 09 44.8	13.4N	144.8E	0	4.0b		¶97viii2831
NEIC	VIII 19 16 09 54.4	13.42N	144.81E	101			
NEIC	Less reliable solution.						
NEIC	Felt I=III MM at Andersen Air Force Base, Guam.						
	(243) Taiwan region						
ISC	**VIII 19 20 51 04**±1.0	**21.71N**±.051	**121.40E**±.073	**27**±6.9	**4.0b**	**41**	**0-158**
TAP	VIII 19 20 51 05.9	21.97N	121.37E	17	4.3L		¶97viii2870
BJI	VIII 19 20 51 11.1	21.53N	120.91E	100			
NEIC	VIII 19 20 51 11.7	21.74N	121.49E	100	4.3b		
EIDC	VIII 19 20 51 13.8	21.7N	121.4E	100	3.6b		
TAP	Felt I=II J Lanyu						
NEIC	Less reliable solution.						
	(43) Southern California						
NEIC	**VIII 20 01 54 17.0**	**34.27N**	**118.47W**	**11**			**0-2**
NEIC	ML2.2(PAS). Felt, After PAS.						¶97viii2894
	(224) Hokkaido region						
ISC	**VIII 20 05 11 46.9**±.21	**42.96N**±.021	**143.67E**±.040	**139**±2.3	**4.4b**	**243**	**0-151**
SKHL	VIII 20 05 11 46.0	42.8N±.07	143.8E±.15	135±5			¶97viii2910
BJI	VIII 20 05 11 46.1	43.13N	143.70E	141	4.7b		
MOS	VIII 20 05 11 46.6	43.1N	143.7E	139	4.9b		
NEIC	VIII 20 05 11 46.8	43.09N	143.57E	136	4.6b		
EIDC	VIII 20 05 11 47.8	43.2N	143.5E	128	4.3b		
JMA	VIII 20 05 11 47.9±.2	43.00N±.01	143.73E±.01	131±2	4.5		
SKHL	K11						
JMA	Felt I=III J1						
	(244) Taiwan						
ISC	**VIII 20 07 03 41.2**±.42	**24.23N**±.044	**120.90E**±.067	**53**±5.6	**3.8b**	**26**	**0-78**
EIDC	VIII 20 07 03 35.9	24.0N	120.6E	0	3.7b		¶97viii2924
BJI	VIII 20 07 03 38.0	23.93N	120.71E	26	3.8L		
NEIC	VIII 20 07 03 38.8	23.96N	120.59E	33	3.7b		
TAP	VIII 20 07 03 41.0	24.25N	120.94E	37	4.4L		
NEIC	Poor solution.						
TAP	Felt I=III J Taichen, II Taichung, I Sun Moon Lake, Hwalien						
	(706) Northern Sumatera						
ISC	**VIII 20 07 15 14**±1.6	**4.31N**±.030	**96.51E**±.029	**25**±11	**5.7b,5.9s**	**589**	**2-172**
NEIC	VIII 20 07 15 15.9	4.36N	96.49E	33	5.9b,6.0s		¶97viii2926
KLM	VIII 20 07 15 16	4.3N	96.4E	33	5.6L		
BJI	VIII 20 07 15 16.0	4.38N	96.47E	30	5.5b,6.3s		
EIDC	VIII 20 07 15 16.0	4.2N	96.3E	21	5.2b,5.0L		
MOS	VIII 20 07 15 17.1	4.5N	96.6E	33	5.9b,5.8s		
HRVD	VIII 20 07 15 19.9±.1	4.50N±.01	96.66E±.01	15			
NEIC	Mw6.0(GS), Me5.8(GS). Damage.						
NEIC	Radiated energy from the P−wave first−motion solution: 1.1±0.5×10^{13}Nm/6						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S35°,δ30°,λ60°. NP2:ϕ_S249°,δ64°,λ106°. Principal axes: T Plg67°,Azm188°; P Plg18°,Azm327°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Mw 6.0 (HRV). Several hundred houses destroyed in Aceh. Felt at Banda Aceh, Medan and other parts of northern Sumatera. Felt at Alor Setar, Petaling Jaya, Pinang and Shah Alam, Malaysia. Also felt at Ban Hat Yai and Songkhla, Thailand.						
NEIC	Moment tensor solution: s18, scale 10^{17}Nm; M_{rr}0.10; $M_{\theta\theta}$−8.90; $M_{\phi\phi}$8.80; $M_{r\theta}$−0.50; $M_{r\phi}$0.90; $M_{\theta\phi}$−7.60. Depth 36km; Principal axes: T 11.7,Plg5°,Azm250°; N 0.0,Plg85°, Azm77°; P −11.8,Plg1°,Azm340°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S25°,δ86°,λ3°. NP2:ϕ_S294°,δ87°,λ176°.						
KLM	Mb5.9						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s51,c105; Mantle waves: s43,c69; Half duration: 2s4. Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.09; $M_{\theta\theta}$8.60±.09; $M_{\phi\phi}$8.25±.12; $M_{r\theta}$−3.06±.38; $M_{r\phi}$0.46±.37; $M_{\theta\phi}$−6.57±.08. Principal Axes: T 10.7,Plg8°,Azm250°; N 0.8,Plg74°,Azm129°; P −11.5,Plg13°,Azm342°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S25°,δ75°,λ−4°. NP2:ϕ_S116°,δ87°,λ−165°.						
	(447) Southern Québec Province						
ISC	**VIII 20 09 12 03.0**±.47	**47.53N**±.049	**70.34W**±.060	**14**±4.3		**29**	**0-9**
NEIC	VIII 20 09 12 04.0	47.53N	70.29W	18			¶97viii2935
OTT	VIII 20 09 12 04.4	47.5N	70.3W	7	3.7N		
NEIC	mbLg3.7(OTT). Felt, After OTT.						
OTT	Charlevoix seismic zone, Quebec, 17km southwest from La Malbaie, Quebec. Felt in Baie−St−Paul, La Malbaie, St−Urbain, St−Hilarion and Clermont. Also felt at St−Irenee, Pointe−au−Pic, Les Eboulements. People were awakened by the event. One felt report from the south shore (Riviere−Ouelle). Largest Charlevoix event since 25 September 1994 (Mag. 4.3).						
	(244) Taiwan						
ISC	**VIII 20 12 21 39.5**±.99	**24.41N**±.064	**121.7E**±.14	**61**		**14**	**0-2**
TAP	VIII 20 12 21 39.0	24.38N	121.73E	61	3.9L		¶97viii2959
TAP	Felt I=III J						
	(244) Taiwan						
TAP	**VIII 20 14 47 14.5**	**24.40N**	**121.81E**	**12**	**2.5L**		**¶97viii2976**
TAP	Felt I=II J						
	(230) Near south coast of Honshū						
ISC	**VIII 20 20 54 43.3**±.49	**35.01N**±.027	**139.13E**±.035	**9**±4.4		**58**	**0-5**
JMA	VIII 20 20 54 43.8±.0	35.02N±.01	139.11E±.01	5±1	3.5		¶97viii3014
JMA	Felt I=III J1						
	(136) Central Chile						
ISC	**VIII 20 22 28 54.4**±.77	**29.53S**±.056	**70.35W**±.079	**95**±8.1	**4.4b**	**54**	**2-155**
NEIC	VIII 20 22 28 54.1	29.53S	70.32W	93	4.7b		¶97viii3026
EIDC	VIII 20 22 28 55.6	29.5S	70.4W	93	4.2b		
NEIC	Felt I=III MM at Copiapo, Huasco, La Serena and Vallenar.						
	(43) Southern California						
ISC	**VIII 21 01 29 04.6**±.47	**34.18N**±.033	**118.53W**±.050	**7**		**34**	**0-7**
NEIC	VIII 21 01 29 05.2	34.18N	118.52W	7			¶97viii3040
NEIC	ML3.4(PAS), ML3.2(GS). Felt, After PAS.						
NEIC	Felt in the San Fernando Valley.						
	(243) Taiwan region						
ISC	**VIII 21 06 39 47**±7.3	**22.0N**±.42	**121.4E**±.38	**10**		**7**	**1-2**
TAP	VIII 21 06 39 47.2	22.00N	121.31E	10	3.6L		¶97viii3065
TAP	Felt I=II J Lanyu						
	(235) Kyūshū						
ISC	**VIII 21 09 00 10.4**±.50	**31.93N**±.037	**130.32E**±.050	**9**		**30**	**0-4**
JMA	VIII 21 09 00 10.4±.1	31.94N±.00	130.36E±.01	9±2	3.3		¶97viii3077
JMA	Felt I=II J1						
	(40) California-Nevada border region						
ISC	**VIII 21 15 35 33**±1.7	**38.59N**±.038	**118.51W**±.032	**4**±14	3.3b	**51**	**0-24**
NEIC	VIII 21 15 35 33.6	38.59N	118.50W	10			¶97viii3113
EIDC	VIII 21 15 35 38.7	38.8N	118.5W	0	3.7L,3.3b		
NEIC	MD4.2(REN), Mw3.9(BRK)						
NEIC	MD 4.1 (GM). ML 4.2 (BRK), 4.0 (GS). Felt at Hawthorne, Nevada.						
	(40) California-Nevada border region						
ISC	**VIII 21 16 11 24**±1.3	**38.55N**±.026	**118.50W**±.026	**5**±10	**4.1b**	**87**	**0-118**
EIDC	VIII 21 16 11 23.9	38.4N	118.6W	0	3.7L,4.0b		¶97viii3119
NEIC	VIII 21 16 11 24.5	38.57N	118.50W	10	4.2b		
NEIC	ML4.9(BRK), Mw4.5(BRK)						
NEIC	MD 4.6 (REN), 4.5 (GM). ML 4.6 (GS). Felt strongly at Hawthorne, Nevada. Felt at Dyer and in the Reno, Nevada area. Also felt in the Lake Tahoe area.						
	(40) California-Nevada border region						
ISC	**VIII 21 16 36 47**±1.2	**38.56N**±.028	**118.51W**±.027	**9**±8.9	**4.1b,3.5s**	**83**	**0-118**
EIDC	VIII 21 16 36 46.0	38.3N	118.6W	0	4.1b,3.6s		¶97viii3123
NEIC	VIII 21 16 36 47.2	38.56N	118.49W	10	4.1b		
NEIC	ML4.8(BRK), Mw4.4(BRK)						
NEIC	ML 4.6 (GS). MD 4.5 (REN), 4.4 (GM). Felt strongly at Hawthorne, Nevada. Felt at Dyer and in the Reno, Nevada area. Also felt in the Lake Tahoe area.						
	(228) Near east coast of Honshū						
ISC	**VIII 21 20 01 11.6**±.34	**36.43N**±.027	**140.85E**±.052	**65**±4.9	**3.7b**	**93**	**0-83**
NEIC	VIII 21 20 01 12.0	36.34N	140.62E	66			¶97viii3138
EIDC	VIII 21 20 01 12.2	36.4N	140.6E	48	3.5b,3.3L		
JMA	VIII 21 20 01 12.7±.1	36.42N±.01	140.69E±.02	51±2	3.9		
NEIC	Less reliable solution.						
JMA	Felt I=II J1						
	(224) Hokkaido region						
ISC	**VIII 22 05 31 34.5**±.59	**42.72N**±.036	**144.81E**±.082	**59**±7.8	**3.8b**	**52**	**0-85**
EIDC	VIII 22 05 31 30.8	43.2N	144.4E	0	3.9b,3.2L		¶97viii3184
JMA	VIII 22 05 31 35.3±.2	42.79N±.02	144.72E±.02	53±3	3.8		
JMA	Felt I=II J1						
	(228) Near east coast of Honshū						
ISC	**VIII 22 08 11 23.8**±.23	**36.13N**±.021	**140.12E**±.033	**85**±2.6	**4.3b**	**170**	**0-153**
EIDC	VIII 22 08 11 23.7	36.1N	140.0E	65	3.9b,3.3s		¶97viii3198
NEIC	VIII 22 08 11 23.8	36.13N	139.91E	81	4.5b		

BJI VIII 22 08 11 23.9 36.34N 140.24E 110 4.6b
JMA VIII 22 08 11 24.4±.1 36.12N±.01 140.11E±.01 72±2 4.1
JMA Felt I=II J1

(162) South Island, New Zealand

ISC VIII 22 13 24 01.8±.35 **41.58S**±.053 **173.98E**±.077 **58**±7.0 **4.4b** **44 0-153**
NEIC VIII 22 13 24 01.7 41.46S 173.92E 52 **¶97viii3229**
EIDC VIII 22 13 24 01.9 41.2S 174.1E 42 4.3b,3.3L
WEL VIII 22 13 24 03.1 41.47S 173.97E 41 4.7L
NEIC Felt from Christchurch on the South Island to Wellington on the North Island.
WEL Felt I=IV MM Raumati to Blenheim

(163) Cook Strait, New Zealand

ISC VIII 22 18 04 40.5±.67 **41.60S**±.066 **174.02E**±.095 **75**±14 **23 0-5**
WEL VIII 22 18 04 42.4 41.46S 173.94E 42 4.2L **¶97viii3261**
NEIC VIII 22 18 04 43.0 41.41S 174.06E 33
WEL Felt I=IV MM Blenheim and Picton
NEIC Single network solution.

(101) Venezuela

ISC VIII 22 19 02 05±2.6 **8.47N**±.062 **63.22W**±.081 **27**±20 **4.0b,3.5s** **28 3-148**
NEIC VIII 22 19 02 02.3 8.45N 63.26W 10 4.2b **¶97viii3266**
EIDC VIII 22 19 02 05.6 8.5N 63.3W 19 3.9b,3.5s
TRN VIII 22 19 02 15.8 9.0N 62.3W 3 4.9D
NEIC Felt in the San Jose de Guanipa area.

(232) Southern Honshū

ISC VIII 22 23 35 30.7±.51 **35.27N**±.057 **133.38E**±.041 **13** **54 0-5**
JMA VIII 22 23 35 29.8±.0 35.25N±.00 133.38E±.00 13±1 4.0 **¶97viii3304**
JMA Felt I=II J1

(243) Taiwan region

ISC VIII 23 03 05 20.8±.54 **24.39N**±.057 **122.02E**±.048 **25** **15 0-2**
JMA VIII 23 03 05 19.9±.8 24.94N±.07 122.13E±.06 25 3.0 **¶97viii3330**
TAP VIII 23 03 05 20.1 24.38N 121.96E 7 3.0L
TAP Felt I=III J

(244) Taiwan

ISC VIII 23 06 05 49.8±.97 **24.65N**±.052 **121.8E**±.10 **2**±16 **9 0-1**
TAP VIII 23 06 05 48.6 24.66N 121.83E 11 2.8L **¶97viii3348**
TAP Felt I=II J

(244) Taiwan

ISC VIII 23 06 06 16±1.4 **24.65N**±.062 **121.8E**±.16 **10** **8 0-1**
TAP VIII 23 06 06 15.0 24.66N 121.86E 10 3.1L **¶97viii3349**
TAP Felt I=III J

(244) Taiwan

ISC VIII 23 06 34 44±1.1 **23.17N**±.053 **121.5E**±.10 **21**±11 **14 0-2**
TAP VIII 23 06 34 45.1 23.21N 121.40E 18 3.6L **¶97viii3355**
TAP Felt I=I J Yuli

(244) Taiwan

ISC VIII 23 10 37 15±1.2 **24.66N**±.053 **121.8E**±.13 **9** **9 0-1**
TAP VIII 23 10 37 14.7 24.66N 121.83E 9 2.8L **¶97viii3390**
TAP Felt I=II J

(244) Taiwan

ISC VIII 24 04 27 04±1.2 **24.74N**±.073 **121.8E**±.15 **9**±11 **13 0-1**
TAP VIII 24 04 27 02.7 24.72N 121.77E 12 3.5L **¶97viii3480**
TAP Felt I=III J

(244) Taiwan

ISC VIII 24 07 19 46.9±.61 **24.37N**±.054 **121.93E**±.058 **24** **13 0-2**
JMA VIII 24 07 19 46.0±.4 25.06N±.05 122.11E±.03 24 2.8 **¶97viii3492**
TAP VIII 24 07 19 46.4 24.38N 121.93E 23 3.1L
TAP Felt I=II J

(243) Taiwan region

ISC VIII 24 07 48 37.0±.98 **24.40N**±.044 **122.08E**±.045 **11**±9.0 **22 0-2**
TAP VIII 24 07 48 38.2 24.44N 121.96E 9 3.9L **¶97viii3496**
JMA VIII 24 07 48 38.3±.6 24.72N±.08 122.13E±.04 47 3.4
TAP Felt I=IV J, II Suao

(345) North-Western Iran

ISC VIII 24 11 48 18.1±.92 **37.76N**±.071 **48.94E**±.060 **64**±9.1 **4.2b** **66 2-93**
MOS VIII 24 11 48 07.5 37.2N 49.2E 10 4.5b **¶97viii3524**
BJI VIII 24 11 48 09.9 37.10N 48.65E 18 4.8b,4.8s
NEIC VIII 24 11 48 11.3 37.67N 48.89E 10 4.4b
EIDC VIII 24 11 48 12.3 37.8N 48.8E 0 4.2b,3.5s
NEIC Less reliable solution.
NEIC Felt at Ardebil, Astara and Khalkhal.

(243) Taiwan region

ISC VIII 24 12 17 38±1.2 **21.59N**±.023 **120.34E**±.028 **8**±7.2 **5.1b,4.9s** **236 1-170**
HRVD VIII 24 12 17 39.2±.1 21.22N±.02 120.59E±.04 39±1.3 **¶97viii3526**
TAP VIII 24 12 17 40.0 21.64N 120.20E 42 5.3L
BJI VIII 24 12 17 40.4 21.84N 120.15E 13 4.9L,4.8b
NEIC VIII 24 12 17 41.8 21.59N 120.40E 33 5.3b,4.6s
EIDC VIII 24 12 17 42.6 21.6N 120.4E 27 4.5b,4.7s
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c12; Half duration: 1$\hat{s}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.30±.10; $M_{\theta\theta}$0.07±.15; $M_{\phi\phi}$0.23±.21; $M_{r\theta}$1.11±.29; $M_{r\phi}$0.94±.64; $M_{\theta\phi}$−0.27±.11. Principal Axes: T 1.24,Plg43°,Azm317°; N 0.43, Plg2°,Azm49°; P −1.67,Plg47°,Azm141°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S5°, δ2°,λ−134°. NP2:ϕ_S229°,δ88°,λ−88°.
TAP Felt I=II J Kaohsiung
BJI Ms5.2
NEIC Mw5.4(HRV).

(710) Pakistan

ISC VIII 24 13 15 22±1.5 **30.12N**±.040 **67.96E**±.025 **33**±11 **5.2b,5.3s** **335 1-145**
EIDC VIII 24 13 15 19.1 30.0N 68.0E 0 5.1b,5.5s **¶97viii3539**
MOS VIII 24 13 15 21.6 30.0N 68.1E 33 5.6b,5.5s
NEIC VIII 24 13 15 21.8 30.08N 68.00E 33 5.3b,5.4s
BJI VIII 24 13 15 22.1 30.35N 68.05E 24 5.4b,5.6s
HRVD VIII 24 13 15 27.4±.2 29.71N±.02 67.99E±.03 23
NEIC Mw5.6(HRV). Felt.
NEIC Felt at Harnai, Quetta, Pishin, Sibi and Ziarat.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c70; Half duration: 1$\hat{s}$6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.46±.05; $M_{\theta\theta}$−2.92±.08; $M_{\phi\phi}$0.46±.08; $M_{r\theta}$1.90±.13; $M_{r\phi}$−0.33±.11; $M_{\theta\phi}$−0.12±.05. Principal Axes: T 3.11,Plg71°,Azm24°; N 0.41, Plg7°,Azm272°; P −3.52,Plg18°,Azm180°. Best double couple: $M_0$3.3×10^{17}Nm, NP1: ϕ_S258°,δ28°,λ74°. NP2:ϕ_S96°,δ63°,λ98°.

(243) Taiwan region

ISC VIII 24 18 58 34±1.3 **21.60N**±.023 **120.32E**±.038 **3**±8.0 **5.1b,5.0s** **248 1-170**
HRVD VIII 24 18 58 34.5±1.7 21.75N±.11 120.76E±.19 32±6.9 **¶97viii3578**
TAP VIII 24 18 58 36.5 21.63N 120.27E 46 5.3L
BJI VIII 24 18 58 36.9 21.72N 120.24E 27 4.9L,5.0b
NEIC VIII 24 18 58 38.0 21.63N 120.40E 33 5.3b,5.0s
EIDC VIII 24 18 58 39.3 21.7N 120.4E 28 4.4b,3.9L
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c20; Half duration: 1$\hat{s}$1. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.76±.71; $M_{\theta\theta}$−1.42±.65; $M_{\phi\phi}$7.17±1.06; $M_{r\theta}$5.01±1.34; $M_{r\phi}$−6.41±1.84; $M_{\theta\phi}$−0.58±.73. Principal Axes: T 10.4,Plg25°,Azm76°; N 0.2, Plg19°,Azm337°; P −10.6,Plg58°,Azm213°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S201°,δ26°,λ−43°. NP2:ϕ_S330°,δ72°,λ−110°.
TAP Felt I=II J Kaohsiung, I Shoushan
BJI Ms5.4
NEIC Mw5.3(HRV).

(160) Off east coast of North Island, N.Z.

ISC VIII 24 20 23 22.2±.74 **39.91S**±.043 **177.08E**±.095 **36** **31 0-8**
WEL VIII 24 20 23 24.7 39.79S 176.98E 36 4.1L **¶97viii3586**
WEL Felt I=IV MM Patoka, Hastings and Napier

(353) Southern Iran

ISC VIII 24 21 11 20±2.0 **28.75N**±.042 **52.69E**±.027 **2**±12 **5.0b,4.2s** **296 3-133**
BJI VIII 24 21 11 23.3 28.72N 52.61E 34 5.0b,4.8s **¶97viii3591**
NEIC VIII 24 21 11 24.7 28.80N 52.59E 33 5.0b,4.1s
EIDC VIII 24 21 11 24.9 28.8N 52.7E 20 4.6b,4.2s
NEIC Casualties.
NEIC Sixty-seven people injured in the Firuzabad area.

(662) Sakhalin

SKHL VIII 24 21 57 49.8 46.87N±.01 **142.25E**±.01 **7**±2 **¶97viii3597**
SKHL K8.0 Felt I=II−III MSK at Chaplanovo

(122) Near coast of Northern Chile

ISC VIII 24 23 56 53±2.1 **18.3S**±.17 **70.3W**±.18 **95**±24 **3.9b** **6 3-88**
NEIC VIII 24 23 56 53.4 18.30S 70.43W 100 3.7b **¶97viii3607**
EIDC VIII 24 23 56 54.2 18.3S 70.4W 94 3.7b
NEIC Less reliable solution.
NEIC Felt I=III MM at Arica.

(344) North-Western Iran-USSR border region

ISC VIII 25 02 48 08.0±.80 **39.23N**±.061 **44.10E**±.056 **50**±8.1 **4.4b,3.4s** **111 1-79**
NEIC VIII 25 02 48 07.1 39.31N 43.97E 33 4.4b **¶97viii3628**
EIDC VIII 25 02 48 14.0 39.5N 43.7E 64 4.0b,3.6L
NEIC Minor damage in the Dogubeyazit area.

(124) Chile-Bolivia border region

ISC VIII 25 03 34 22±1.0 **19.55S**±.049 **68.97W**±.054 **82**±10 **4.7b** **148 3-169**
BJI VIII 25 03 34 24.7 19.60S 69.00W 107 **¶97viii3638**
NEIC VIII 25 03 34 24.7 19.62S 69.00W 107 4.8b
EIDC VIII 25 03 34 26.9 19.6S 69.1W 111 4.2b,4.0s
NEIC Felt I=III MM at Arica and Iquique.

(95) Windward Islands

ISC VIII 25 04 57 48±1.4 **12.88N**±.063 **60.7W**±.28 **27** **8 1-2**
TRN VIII 25 04 57 46.9 12.9N 60.7W 27 3.6D **¶97viii3647**
NEIC VIII 25 04 57 48.2 12.88N 60.69W 33
TRN MD3.3 (after FDF). Felt I=II MM Martinique
NEIC Single network solution.

(159) North Island, New Zealand

ISC VIII 25 06 19 31±3.0 **37.6S**±.15 **175.7E**±.10 **2**±14 **18 0-6**
NEIC VIII 25 06 19 31.6 37.64S 175.61E 10 **¶97viii3655**
WEL VIII 25 06 19 32.5 37.65S 175.68E 5 4.3L
NEIC Single network solution.
WEL Felt Waihi and Te Aroha.

(377) Spain

ISC VIII 25 06 22 47.7±.95 **38.03N**±.041 **4.43W**±.040 **5**±8.2 **34 0-6**
NEIC VIII 25 06 22 48.1 38.00N 4.44W 10 **¶97viii3657**
LIS VIII 25 06 22 49 37.97N 4.24W 3.3L
MDD VIII 25 06 22 49.4 37.97N 4.40W 3 3.7
NEIC mbLg3.9(MDD), Single network solution.
MDD Felt I=III MSK at Pedro Abad

(274) Southern Sumatera

ISC VIII 25 21 24 06±1.9 **1.97S**±.039 **99.98E**±.052 **19**±14 **5.1b,5.1s** **211 4-158**
EIDC VIII 25 21 24 04.0 2.1S 99.8E 0 5.0b **¶97viii3744**
DJA VIII 25 21 24 05.8 2.4S 99.4E 80 5.8L,5.2D
KLM VIII 25 21 24 08 1.9S 99.9E 33 4.5L
NEIC VIII 25 21 24 08.1 1.97S 99.91E 33 5.1b,4.8s
MOS VIII 25 21 24 08.4 1.9S 100.0E 33 5.7b,5.0s
BJI VIII 25 21 24 08.4 1.95S 99.90E 35 5.3b,5.3s
HRVD VIII 25 21 24 13.0±.3 2.26S±.03 99.90E±.04 32
KLM Mb5.1
NEIC Mw5.5(HRV).
NEIC Felt at Padang and Padangpanjang.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c50; Half duration: 1$\hat{s}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.04±.04; $M_{\theta\theta}$−0.95±.04; $M_{\phi\phi}$−0.09±.06; $M_{r\theta}$1.08±.12; $M_{r\phi}$−0.82±.08; $M_{\theta\phi}$0.59±.05. Principal Axes: T 1.69,Plg64°,Azm47°; N 0.19, Plg7°,Azm303°; P −1.87,Plg25°,Azm210°. Best double couple: $M_0$1.8×10^{17}Nm, NP1: ϕ_S286°,δ21°,λ71°. NP2:ϕ_S125°,δ70°,λ97°.

(348) Iran

ISC VIII 26 00 44 51±1.2 **36.6N**±.10 **53.06E**±.048 **43**±13 **4.4b**,3.4s **66 5-81**
EIDC VIII 26 00 44 46.5 36.4N 53.0E 0 4.2b,3.8L **¶97viii3761**
BJI VIII 26 00 44 47.1 35.61N 52.97E 33 4.6b,4.3s
NEIC VIII 26 00 44 49.9 36.54N 53.07E 33 4.5b
NEIC Felt at Ghaem Shahr and Sari.

(219) Off east coast of Kamchatka

ISC VIII 26 02 53 37.2±.49 **52.96N**±.041 **159.86E**±.059 **59**±4.0 **4.9b,4.2s** **249 0-144**
EIDC VIII 26 02 53 30.9 53.1N 159.7E 0 4.5b,4.6L **¶97viii3774**
BJI VIII 26 02 53 33.0 53.20N 160.06E 42 4.9b,4.4s
NEIC VIII 26 02 53 34.2 53.00N 159.88E 33 5.1b
MOS VIII 26 02 53 35.7 53.1N 159.9E 41 5.3b
KRSC VIII 26 02 53 37.1 52.95N 160.07E 42 4.9b
MOS Felt I=II−III MSK at Petropavlovsk−Kamchatskii.

(533) United Kingdom

ISC VIII 26 19 57 50.8±.98 **56.20N**±.086 **4.2W**±.12 **18**±13 **11 0-3**
BGS VIII 26 19 57 51.5 56.20N 4.10W 4 2.6L **¶97viii3897**
BGS Felt I=IV+ MSK, Doune, Callender, Thornhill, Deanston and Dunblane areas

(405) Azores

ISC VIII 27 18 50 10.5±.72 **38.27N**±.034 **26.62W**±.026 **3**±4.7 **4.8b,4.2s** **211 1-158**
BJI VIII 27 18 50 09.0 38.20N 26.50W 10 5.1b,5.3s **¶97viii4024**
NEIC VIII 27 18 50 11.2 38.20N 26.55W 10 4.9b,4.2s
EIDC VIII 27 18 50 11.7 38.3N 26.7W 0 4.5b,4.2s
ADH VIII 27 18 50 13.7 38.43N 26.73W 4.4D
ADH Felt on Terceira and on Sao Miguel I=III MM

(536) Sweden

ISC VIII 28 06 02 35.6±.82 **59.7N**±.10 **13.21E**±.088 **3** **18 0-12**
HEL VIII 28 06 02 38 59.59N 13.18E 3.1L **¶97viii4093**
BER VIII 28 06 02 39.0 59.7N 13.1E 3 3.3D,2.8L
UPP ML3.2, felt
HEL Md3.4

(226) Near west coast of Honshū

ISC VIII 28 12 02 53.1±.47 **36.21N**±.041 **136.21E**±.046 **10** **37 0-3**
JMA VIII 28 12 02 53.0±.1 36.21N±.01 136.21E±.01 10±2 2.9 **¶97viii4126**
JMA Felt I=II J1

(97) Near coast of Venezuela

ISC VIII 28 14 12 24.8±.66 **10.7N**±.11 **63.90W**±.061 **5** **3.9b** **19 2-81**
TRN VIII 28 14 12 20.6 10.5N 64.2W 7 4.0D **¶97viii4141**
NEIC VIII 28 14 12 24.4 10.69N 63.92W 5 4.0b
EIDC VIII 28 14 12 26.1 10.7N 64.1W 0 3.9b
NEIC Less reliable solution.
NEIC Felt along the eastern coast of Venezuela.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(186) Vanuatu (New Hebrides)						
ISC	**VIII 28 21 42 06**±1.9	**17.32S**±.050	**167.86E**±.059	**15**±14	**4.8b,5.2s**	**219**	**1-157**
EIDC	VIII 28 21 42 06.3	17.4S	168.0E	14	4.5b,5.1s		**¶97viii4186**
NEIC	VIII 28 21 42 07.6	17.40S	167.91E	33	4.9b,5.3s		
BJI	VIII 28 21 42 09.0	16.71S	167.12E	6	5.0b,5.2s		
MOS	VIII 28 21 42 09.4	17.4S	167.0E	33	5.9b,5.0s		
HRVD	VIII 28 21 42 12.3±.2	17.44S±.02	167.59E±.02	33±1.6			
NEIC	Mw5.5(HRV)						
NEIC	Felt at Port-Vila.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c87; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}1.96±.04; $M_{\theta\theta}$0.01±.06; $M_{\phi\phi}$−1.97±.06; $M_{r\theta}$0.78±.09; $M_{r\phi}$−0.59±.10; $M_{\theta\phi}$0.27±.04. Principal Axes: T 2.29,Plg71°,Azm20°; N −0.15, Plg16°,Azm166°; P −2.14,Plg10°,Azm259°. Best double couple: $M_0$2.2×10^{17}Nm, NP1:ϕ_S8°, δ38°,λ117°. NP2:ϕ_S155°,δ57°,λ71°.						
	(405) Azores						
ISC	**VIII 29 02 50 33.0**±.77	**38.03N**±.091	**26.85W**±.074	**0**		**12**	**1-2**
ADH	VIII 29 02 50 37.2	38.24N	26.75W		3.0D		**¶97viii4224**
ADH	Felt on Terceira I=II MM and on Sao Miguel at Sao Roque						
	(244) Taiwan						
ISC	**VIII 29 02 59 49.7**±.54	**23.06N**±.044	**120.56E**±.069	**27**±7.9		**16**	**0-3**
TAP	VIII 29 02 59 49.1	23.05N	120.61E	20	4.2L		**¶97viii4227**
BJI	VIII 29 03 00 17.4	24.71N	119.71E	29	3.3L		
TAP	Felt I=II J Tainan, I Hengchun, Chiayi						
	(123) Northern Chile						
ISC	**VIII 29 05 05 53.9**±.96	**22.07S**±.048	**68.51W**±.058	**80**±9.4	**5.1b**	**157**	**3-168**
BJI	VIII 29 05 05 57.9	22.10S	68.40W	117			**¶97viii4237**
NEIC	VIII 29 05 05 57.9	22.06S	68.43W	117	5.3b		
EIDC	VIII 29 05 06 00.0	22.1S	68.6W	119	4.8b		
HRVD	VIII 29 05 06 01.6±.8	22.12S±.09	68.68W±.11	127±5.6			
NEIC	Mw5.2(HRV)						
NEIC	Felt I=IV MM at Calama and Quillagua, III MM at Maria Elena and II MM at San Pedro de Atacama.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c16; Mantle waves: s7,c7; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.02±.60; $M_{\theta\theta}$−0.32±1.08; $M_{\phi\phi}$4.35±.94; $M_{r\theta}$−0.31±.66; $M_{r\phi}$−7.11±.67; $M_{\theta\phi}$−1.25±.98. Principal Axes: T 8.51,Plg30°,Azm83°; N −0.32,Plg9°,Azm178°; P −8.19,Plg59°,Azm283°. Best double couple: $M_0$8.4×10^{16}Nm, NP1:ϕ_S149°,δ17°,λ−120°. NP2:ϕ_S0°,δ75°,λ−81°.						
	(456) Montana						
ISC	**VIII 29 08 42 52.2**±.55	**48.54N**±.063	**115.87W**±.075	**10**		**22**	**1-5**
PGC	VIII 29 08 42 52.9	48.6N	115.9W	10	3.0L		**¶97viii4256**
NEIC	VIII 29 08 42 53.0	48.58N	115.88W	19			
PGC	Near Troy, Montana. Felt at Troy, Libby and Eurka, Montana.						
NEIC	M_L3.1(BUT). Felt, After BUT.						
	(230) Near south coast of Honshū						
ISC	**VIII 29 11 23 29.1**±.59	**34.18N**±.027	**139.22E**±.025	**14**±3.9	**4.1b**	**150**	**0-150**
BJI	VIII 29 11 23 19.1	33.47N	140.17E	10	4.3b		**¶97viii4287**
NEIC	VIII 29 11 23 27.7	34.09N	139.17E	10	4.3b		
EIDC	VIII 29 11 23 27.9	34.1N	139.3E	0	4.0b,3.4L		
JMA	VIII 29 11 23 30.1±.1	34.27N±.01	139.19E±.01	1±3	3.8		
JMA	Felt I=III J1						
	(230) Near south coast of Honshū						
ISC	**VIII 29 11 25 15.0**±.64	**34.21N**±.035	**139.21E**±.033	**12**±4.6	4.0b	**74**	**0-150**
JMA	VIII 29 11 25 15.7±.1	34.26N±.01	139.21E±.01	3±4	3.4		**¶97viii4288**
JMA	Felt I=II J1						
	(377) Spain						
ISC	**VIII 30 04 01 07.5**±.25	**43.27N**±.025	**2.34W**±.034	**18**		**84**	**1-10**
NEIC	VIII 30 04 01 06.9	43.25N	2.33W	10			**¶97viii4422**
STR	VIII 30 04 01 09.1	43.27N	2.20W	9	4.2L		
MDD	VIII 30 04 01 10.3	43.22N	2.27W	18	3.5		
LDG	VIII 30 04 01 10.6	43.3N	2.3W		4.0L		
LIS	VIII 30 04 01 12	43.10N	2.38W				
NEIC	mbLg3.6(MDD)						
NEIC	Felt I=IV MM in the epicentral area.						
MDD	Felt I=IV MSK at Azpeitia						
	(377) Spain						
ISC	**VIII 30 04 12 18**±1.1	**43.28N**±.032	**2.32W**±.045	**8**±8.5		**59**	**1-7**
NEIC	VIII 30 04 12 18.0	43.24N	2.29W	10			**¶97viii4425**
STR	VIII 30 04 12 19.9	43.24N	2.20W	11	3.9L		
LDG	VIII 30 04 12 20.3	43.3N	2.3W		3.7L		
MDD	VIII 30 04 12 21.0	43.25N	2.25W	18	3.4		
NEIC	mbLg3.5(MDD).						
NEIC	Felt I=III MM in the epicentral area.						
MDD	Felt I=III MSK at Azpeitia						
	(163) Cook Strait, New Zealand						
ISC	**VIII 30 08 40 21.1**±.70	**41.58S**±.064	**174.02E**±.096	**68**±15		**23**	**0-4**
WEL	VIII 30 08 40 22.4	41.45S	173.93E	41	4.0L		**¶97viii4459**
NEIC	VIII 30 08 40 22.9	41.42S	174.02E	33			
WEL	Felt I=IV MM Blenheim and Picton						
NEIC	Single network solution.						
	(39) Central California						
ISC	**VIII 31 00 24 13.6**±.40	**37.75N**±.044	**122.09W**±.062	**17**±6.4		**25**	**0-3**
NEIC	VIII 31 00 24 13.9	37.74N	122.09W	9			**¶97viii4558**
NEIC	M_D3.0(GM), M_L3.0(BRK). Felt, After GM−P.						
NEIC	ML 3.0 (GS). Felt in the epicentral area.						
	(1) Central Alaska						
ISC	**VIII 31 00 56 42.7**±.68	**63.49N**±.045	**151.1W**±.14	**9**		**20**	**0-5**
NEIC	VIII 31 00 56 43.3	63.44N	151.14W	9			**¶97viii4561**
NEIC	M_L3.3(PMR), M_L3.0(AEIC). Felt, After AEIC.						
NEIC	Felt at the Wonder Lake Ranger Station near Kantishna.						
	(178) Kermadec Islands						
ISC	**VIII 31 10 59 56.8**±.27	**30.65S**±.056	**177.86W**±.062	**53**±1.8*	**4.9b,4.5s**	**162**	**1-170**
BJI	VIII 31 10 59 56.9	30.41S	177.98W	58	5.1b		**¶97viii4639**
NEIC	VIII 31 10 59 57.5	30.29S	177.99W	55	5.1b		
EIDC	VIII 31 10 59 59.0	30.2S	177.8W	52	4.4b		
WEL	Felt I=IV MM Raoul Island						
	(244) Taiwan						
TAP	**VIII 31 22 33 37.0**	**24.39N**	**121.74E**	**11**	**2.0L**		**¶97viii4720**
TAP	Felt I=III J						
	(127) Chile-Argentina border region						
ISC	**IX 01 05 48 38.1**±.64	**34.99S**±.066	**70.78W**±.091	**105**±5.6	**3.9b**	**29**	**1-85**
NEIC	IX 01 05 48 37.7	35.00S	70.72W	100	4.3b		**¶97ix0054**
GUC	IX 01 05 48 38.3	34.96S	71.03W	97	4.4D		
EIDC	IX 01 05 48 38.4	35.1S	70.8W	101	3.8b		
NEIC	Felt I=III MM at Talca, Chile.						
	(525) Veracruz State, Mexico						
ISC	**IX 01 10 50 22.3**±.55	**19.00N**±.051	**95.85W**±.046	**56**±8.1	**4.1b**,3.3s	**66**	**1-134**
NEIC	IX 01 10 50 19.5	18.94N	95.84W	33	4.3b		**¶97ix0094**
MEX	IX 01 10 50 24.0	19.1N	96.0W	16	4.4D		
EIDC	IX 01 10 50 24.9	19.0N	95.8W	64	3.9b,3.4s		
NEIC	Felt at Boca del Rio and Veracruz.						
	(218) Near east coast of Kamchatka						
ISC	**IX 01 14 07 02.3**±.52	**53.53N**±.037	**160.62E**±.067	**52**±4.4	**4.8b,4.2s**	**209**	**1-144**
BJI	IX 01 14 06 57.0	53.60N	160.70E	33	4.7b,4.0s		**¶97ix0110**
NEIC	IX 01 14 07 00.0	53.57N	160.69E	33	4.9b		
MOS	IX 01 14 07 00.5	53.7N	160.7E	33	5.2b		
EIDC	IX 01 14 07 02.7	53.7N	160.5E	37	4.3b,4.3L		
KRSC	IX 01 14 07 02.9	53.50N	160.71E	40	4.8b		
KRSC	Felt I=III MSK, Kronoki						
	(232) Southern Honshū						
ISC	**IX 01 17 07 48.3**±.72	**35.27N**±.033	**133.39E**±.027	**1**±5.7	**3.8b**	**89**	**0-63**
NEIC	IX 01 17 07 48.7	35.24N	133.29E	10			**¶97ix0143**
JMA	IX 01 17 07 48.8±.0	35.25N±.00	133.38E±.00	13±1	4.1		
EIDC	IX 01 17 07 49.2	35.3N	133.3E	0	3.8b,3.4L		
JMA	Felt I=II J1						
	(224) Hokkaido region						
ISC	**IX 02 00 19 47.9**±.31	**41.21N**±.019	**142.66E**±.039	**54**±2.8	**5.1b,4.4s**	**384**	**1-153**
BJI	IX 02 00 19 46.8	41.12N	142.65E	62	5.2b,4.4s		**¶97ix0185**
JMA	IX 02 00 19 47.3±.1	41.21N±.01	142.71E±.01	49	4.8		
MOS	IX 02 00 19 47.3	41.3N	142.5E	46	5.4b,4.3s		
NEIC	IX 02 00 19 48.0	41.25N	142.57E	55	5.1b,4.4s		
EIDC	IX 02 00 19 51.1	41.3N	142.5E	64	4.6b		
JMA	Felt I=II J1						
	(244) Taiwan						
ISC	**IX 02 00 25 12.0**±.59	**22.88N**±.047	**120.63E**±.073	**24**±9.3		**13**	**0-1**
TAP	IX 02 00 25 11.4	22.86N	120.69E	11	3.3L		**¶97ix0188**
TAP	Felt I=III J						
	(544) Switzerland						
ISC	**IX 02 00 30 51.9**±.29	**47.59N**±.027	**7.70E**±.043	**25**		**66**	**0-7**
SZGRF	IX 02 00 30 50.0	47.6N	7.8E	10	3.0L		**¶97ix0189**
NEIC	IX 02 00 30 52.0	47.55N	7.80E	10			
LDG	IX 02 00 30 52.5	47.6N	7.8E		3.1L		
ZUR	IX 02 00 30 53.3	47.60N	7.86E	25	2.6L		
LEDBW	IX 02 00 30 53.4	47.60N	7.85E	23	3.0L		
NEIC	$M_{L2.9}$(FUR).						
LEDBW	Felt I=IV MSK						
	(135) Near coast of Central Chile						
ISC	**IX 02 02 41 39.7**±.74	**29.27S**±.043	**71.30W**±.079	**68**±7.6	**4.6b**	**52**	**3-150**
NEIC	IX 02 02 41 39.0	29.26S	71.30W	63	4.8b		**¶97ix0209**
EIDC	IX 02 02 41 40.9	29.2S	71.3W	63	4.6b,3.9s		
GUC	IX 02 02 41 41.9	29.57S	71.95W	33	4.8D		
NEIC	Felt I=III MM at Andacollo, Coquimbo, La Serena and Tongoy.						
	(10) Unimak Island region						
ISC	**IX 02 07 52 04.9**±.38	**54.41N**±.079	**164.98W**±.087	**86**±4.6	**3.9b**	**57**	**1-145**
EIDC	IX 02 07 51 55.1	54.3N	165.3W	0	4.1b,3.2s		**¶97ix0239**
NEIC	IX 02 07 52 05.2	54.08N	164.71W	73	4.0b		
NEIC	Felt, After AEIC.						
NEIC	Felt on Akutan.						
	(135) Near coast of Central Chile						
ISC	**IX 02 10 53 49.0**±.50	**31.83S**±.042	**71.01W**±.069	**81**±5.8	**4.5b**	**77**	**1-164**
NEIC	IX 02 10 53 48.0	31.78S	71.02W	72	4.6b		**¶97ix0263**
EIDC	IX 02 10 53 49.2	31.9S	71.1W	73	4.5b,3.6s		
GUC	IX 02 10 53 50.1	31.90S	71.24W	63	4.9D		
NEIC	Felt I=V MM at Illapel and Los Vilos; IV MM at Cabildo, Canela, La Ligua, Papudo, Petorca, Salamanca and Zapallar; III MM at Chincolco, Los Andes, Quintero, San Felipe and Santiago; II MM at Concon.						
	(103) Colombia						
ISC	**IX 02 12 13 23.1**±.26	**3.88N**±.025	**75.70W**±.021	**196**±2.5	**6.2b**	**782**	**0-178**
BJI	IX 02 12 13 21.7	3.74N	75.76W	201			**¶97ix0276**
NEIC	IX 02 12 13 22.9	3.85N	75.75W	199	6.5b		
MOS	IX 02 12 13 23.5	3.8N	75.8W	208	7.0b		
EIDC	IX 02 12 13 24.3	3.8N	75.6W	202	5.8b,6.0s		
HRVD	IX 02 12 13 33.6±.1	4.00N	75.57W±.01	213±.3			
NEIC	Mw6.8(GS), Me6.5(GS)						
NEIC	Radiated energy from the P−wave first−motion solution: 1.2±0.3×10^{14}Nm/20						
NEIC	Mw 6.8 (HRV). Mb 6.0 (BRK). Felt at Armenia, Bogota, Cali, Ibague, Manizales, Medellin, Pereira and many other parts of central and western Colombia. Also felt I=II MM at Panama City and Penonome, Panama. Mo=8.0×10^{18}Nm (PPT).						
NEIC	Moment tensor solution: s49, scale 10^{19}Nm; M_{rr}1.20; $M_{\theta\theta}$−2.01; $M_{\phi\phi}$0.81; $M_{r\theta}$0.41; $M_{r\phi}$−0.33; $M_{\theta\phi}$0.49. Depth 211km; Principal axes: T 1.40,Plg62°,Azm86°; N 0.76,Plg27°, Azm284°; P −2.15,Plg8°,Azm190°. Best double couple: $M_0$1.8×10^{19}Nm; NP1:ϕ_S252°,δ44°, λ49°. NP2:ϕ_S123°,δ58°,λ122°.						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S122°,δ67°,λ120°. NP2:ϕ_S246°,δ37°,λ40°. Principal axes: T Plg57°,Azm73°; P Plg17°,Azm190°. Complex earthquake. A small event is followed by at least three larger events about 1.0, 4.0 and 7.0 seconds later. Depth and focal mechanism based on first of the larger events.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c135; Mantle waves: s54,c134; Half duration: 5s5. Moment tensor: Scale 10^{19}Nm; M_{rr}1.16±.01; $M_{\theta\theta}$−2.00±.01; $M_{\phi\phi}$0.84±.01; $M_{r\theta}$0.01±.00; $M_{r\phi}$−0.13±.01; $M_{\theta\phi}$0.28±.01. Principal Axes: T 1.21,Plg70°,Azm95°; N 0.82,Plg20°,Azm276°; P −2.03,Plg0°,Azm186°. Best double couple: $M_0$1.6×10^{19}Nm, NP1:ϕ_S256°,δ48°,λ62°. NP2:ϕ_S115°,δ49°,λ117°.						
BOG	Felt at Cali, Lbague, Bogota, and in epicentral area						
	(43) Southern California						
ISC	**IX 02 13 47 35.1**±.82	**34.18N**±.054	**117.32W**±.055	**4**±8.1		**23**	**0-3**
NEIC	IX 02 13 47 35.9	34.15N	117.34W	7			**¶97ix0283**
NEIC	M_L3.1(GS), M_L3.1(PAS). Felt, After PAS.						
	(244) Taiwan						
ISC	**IX 02 21 34 23.1**±.93	**23.88N**±.070	**121.48E**±.098	**18**±13		**11**	**0-2**
TAP	IX 02 21 34 22.9	23.89N	121.45E	18	3.4L		**¶97ix0332**
TAP	Felt I=II J						
	(127) Chile-Argentina border region						
ISC	**IX 03 04 00 43.0**±.39	**33.71S**±.062	**70.28W**±.069	**108**±4.2	**3.9b**	**35**	**0-85**
NEIC	IX 03 04 00 42.4	33.74S	70.17W	107	4.3b		**¶97ix0375**
GUC	IX 03 04 00 44.0	33.70S	70.45W	104	4.4D		
EIDC	IX 03 04 00 44.5	33.7S	70.3W	107	3.9b		
NEIC	Felt I=III MM at Santiago and Talagante; II MM at Valparaiso, Chile.						
	(378) Pyrenees						
ISC	**IX 03 05 07 36.6**±.63	**42.83N**±.039	**2.55E**±.088	**11**±7.4		**17**	**0-4**
LDG	IX 03 05 07 37.1	42.8N	2.5E		2.7L		**¶97ix0382**
MDD	IX 03 05 07 37.9	42.81N	2.56E	3	2.9		
NEIC	IX 03 05 07 38.1	42.92N	2.56E	10			
STR	IX 03 05 07 39.1	42.84N	2.57E	10	3.0L		
PIST	Felt I=II−III MSK at Saint Paul de Fenouillet						
	(232) Southern Honshū						
ISC	**IX 03 20 12 35**±1.1	**35.28N**±.027	**133.36E**±.027	**14**±8.2	**4.0b**	**123**	**0-83**
BJI	IX 03 20 12 33.0	35.03N	133.84E	38	4.1b,5.3s		**¶97ix0475**
NEIC	IX 03 20 12 33.1	35.26N	133.29E	10	4.1b		
EIDC	IX 03 20 12 33.6	35.3N	133.2E	0	3.9b,3.7L		
JMA	IX 03 20 12 33.9±.0	35.25N±.00	133.38E±.00	12±1	4.4		
JMA	Felt I=III J1						

(232) Southern Honshū

ISC	**IX**	**03 20 15 43.7**±.64	**35.27N**±.020	**133.34E**±.021	**11**±4.5	**4.7b,4.8s**	**259**	**0-153**
BJI	IX	03 20 15 36.7	34.98N	133.97E	10	4.8b,5.3s		**¶97ix0476**
MOS	IX	03 20 15 41.8	35.2N	133.3E	10	5.0b,4.9s		
NEIC	IX	03 20 15 42.8	35.22N	133.22E	10	4.9b,4.7s		
JMA	IX	03 20 15 43.2±.0	35.26N±.00	133.38E±.00	9±2	5.1		
EIDC	IX	03 20 15 46.8	35.3N	133.2E	29	4.2b,4.5s		
HRVD	IX	03 20 15 46.9±.5	35.12N±.06	133.36E±.08	15			

NEIC Mw5.3(HRV).
JMA Felt I=IV J1
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c28; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.35±.35; $M_{\theta\theta}$6.28±.38; $M_{\phi\phi}$−5.93±.53; $M_{r\theta}$−0.90±1.17; $M_{r\phi}$−4.49±1.49; $M_{\theta\phi}$−4.15±.38. Principal Axes: T 7.59,Plg4°,Azm19°; N 1.89,Plg63°,Azm116°; P −9.49,Plg27°,Azm287°. Best double couple: M_O8.5×10^{16}Nm, NP1: ϕ_S66°,δ69°,λ−163°. NP2:ϕ_S330°,δ74°,λ−22°.

(546) Austria

ISC	**IX**	**04 01 45 39.1**±.73	**47.74N**±.055	**16.18E**±.084	**5**		**16**	**0-5**
NEIC	IX	04 01 45 39.2	47.74N	16.16E	5			**¶97ix0529**
SZGRF	IX	04 01 45 43.9	48.0N	16.1E	10	2.8L		

NEIC M_L2.6(VIE). Less reliable solution.
NEIC Felt I=IV MSK at Ternitz.

(244) Taiwan

ISC	**IX**	**04 18 00 39**±1.1	**24.25N**±.063	**121.7E**±.13	**22**±15		**12**	**0-1**
TAP	IX	04 18 00 39.9	24.30N	121.69E	20	3.3L		**¶97ix0618**

TAP Felt I=II J

(95) Windward Islands

ISC	**IX**	**04 19 44 24.8**±.81	**11.12N**±.057	**60.71W**±.092	**17**±5.8	**3.7b**,3.4s	**20**	**0-78**
NEIC	IX	04 19 44 23.6	11.11N	60.65W	10	3.9b		**¶97ix0628**
EIDC	IX	04 19 44 23.6	11.2N	60.9W	0	3.7b,3.3s		
TRN	IX	04 19 44 25.1	11.1N	60.8W	9	3.6D		

TRN Felt in Tobago

(383) Northwestern Balkan region

ISC	**IX**	**04 22 21 12.9**±.34	**46.02N**±.030	**14.19E**±.039	**10**		**44**	**0-8**
NEIC	IX	04 22 21 13.1	45.83N	14.20E	10			**¶97ix0643**
LJU	IX	04 22 21 13.3	45.9N	14.2E	14			
ROM	IX	04 22 21 15.1	45.9N	14.1E	5	3.2D		
LDG	IX	04 22 21 15.1	45.8N	14.3E		2.9L		

NEIC $M_{L3.3}$(GRF), $M_{L3.1}$(LJU)
NEIC ML 3.0 (VIE). Felt I=IV MM at Logatec, Postojna and Vrhnika, Slovenia.
LJU Felt I=V EMS in Planina pri Rakeku, Slovenia.

(243) Taiwan region

ISC	**IX**	**05 12 41 07.8**±.87	**22.77N**±.054	**121.13E**±.099	**10**±8.2		**14**	**0-2**
TAP	IX	05 12 41 07.0	22.72N	121.14E	16	3.7L		**¶97ix0747**

TAP Felt I=II J Taitung

(244) Taiwan

ISC	**IX**	**05 16 49 29**±1.5	**24.31N**±.062	**121.9E**±.16	**11**		**11**	**0-1**
TAP	IX	05 16 49 28.4	24.36N	121.77E	11	3.3L		**¶97ix0771**

TAP Felt I=III J

(135) Near coast of Central Chile

ISC	**IX**	**05 20 57 29.1**±.67	**28.96S**±.037	**71.24W**±.060	**47**±6.8	**4.7b,4.3s**	**123**	**3-172**
NEIC	IX	05 20 57 27.6	28.92S	71.22W	33	5.0b,4.3s		**¶97ix0800**
EIDC	IX	05 20 57 28.4	29.0S	71.3W	29	4.5b,4.5s		
BJI	IX	05 20 57 30.6	28.90S	71.20W	33			

NEIC Felt I=IV MM at Copiapo and III MM at Freirina, Huasco, Tierra Amarilla and Vallenar.

(2) Southern Alaska

ISC	**IX**	**05 21 58 35.1**±.30	**61.47N**±.033	**149.15W**±.051	**33**±10		**53**	**0-5**
NEIC	IX	05 21 58 34.9	61.52N	149.22W	40			**¶97ix0801**

NEIC M_L3.0(AEIC), M_L3.0(PMR). Felt, After AEIC.
NEIC Felt at Palmer.

(244) Taiwan

ISC	**IX**	**06 01 45 09.9**±.83	**23.90N**±.052	**120.70E**±.072	**12**±9.1		**11**	**0-2**
TAP	IX	06 01 45 09.5	23.89N	120.72E	12	3.4L		**¶97ix0837**

TAP Felt I=III J

(232) Southern Honshū

ISC	**IX**	**06 17 19 35.3**±.59	**35.01N**±.025	**135.55E**±.023	**9**±4.9	**3.5b**	**92**	**0-58**
JMA	IX	06 17 19 35.7±.0	35.04N±.00	135.52E±.00	18±1	4.1		**¶97ix0948**
EIDC	IX	06 17 19 37.7	35.4N	135.8E	0	3.5b,2.8L		
NEIC	IX	06 17 19 40.3	35.34N	135.80E	33			

JMA Felt I=III J1
NEIC Less reliable solution.

(244) Taiwan

ISC	**IX**	**06 21 14 45.2**±.70	**23.56N**±.045	**120.64E**±.048	**10**±7.1		**16**	**0-2**
TAP	IX	06 21 14 44.7	23.54N	120.65E	10	3.6L		**¶97ix0968**

TAP Felt I=II J Chiayi, I Alishan

(499) Oklahoma

ISC	**IX**	**06 23 37 56.4**±.67	**34.45N**±.076	**96.40W**±.047	**5**		**30**	**1-17**
EIDC	IX	06 23 37 58.0	34.7N	96.4W	0	4.2L		**¶97ix0989**
NEIC	IX	06 23 38 00.9	34.66N	96.44W	5			
TUL	IX	06 23 38 02.0	34.7N	96.5W	5	4.4b,3.7D		

NEIC mbLg4.5(TUL), mbLg4.2(GS)
NEIC Felt I=V MM at Byars, Coleman, Fittstown, Francis, Lehigh, Stonewall, Tupelo and Wardville; IV MM at Ada, Bromide, Milburn, Roff and Wapanucka. Also felt at Norman, Oklahoma City and as far north as Tulsa. Felt in much of south-central Oklahoma.
TUL Felt I=VI MM

(246) South-western Ryūkyū Islands

ISC	**IX**	**07 11 17 01.8**±.48	**24.92N**±.065	**125.32E**±.055	**49**±5.4	**4.1b**	**46**	**0-88**
JMA	IX	07 11 17 01.3±.4	24.93N±.08	125.35E±.05	64	4.2		**¶97ix1055**
EIDC	IX	07 11 17 02.5	24.9N	125.1E	40	3.8b,3.9L		
BJI	IX	07 11 17 03.6	24.99N	125.32E	71	4.6b,3.6s		
NEIC	IX	07 11 17 04.0	24.90N	125.19E	71	4.1b		

JMA Felt I=III J1

(244) Taiwan

ISC	**IX**	**07 13 46 33**±1.2	**23.77N**±.075	**121.5E**±.11	**12**		**9**	**0-1**
TAP	IX	07 13 46 32.7	23.81N	121.45E	12	3.1L		**¶97ix1075**

TAP Felt I=II J Chiawan

(230) Near south coast of Honshū

ISC	**IX**	**07 23 40 38.6**±.18	**35.56N**±.019	**139.92E**±.023	**112**±1.4	**5.2b**	**566**	**0-163**
MOS	IX	07 23 40 36.7	35.5N	139.9E	100	5.4b		**¶97ix1143**
BJI	IX	07 23 40 36.9	35.48N	139.92E	116	5.5b		
NEIC	IX	07 23 40 37.5	35.44N	139.77E	106	5.2b		
EIDC	IX	07 23 40 38.0	35.6N	139.7E	95	4.8b,4.1s		
JMA	IX	07 23 40 38.4±.2	35.55N±.01	140.00E±.01	109±2	5.2		
HRVD	IX	07 23 40 38.4±.5	35.44N±.04	140.16E±.09	110±3.2			

NEIC Mw5.2(HRV)
NEIC Felt I=III J1 at Tokyo.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c34; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.70±.28; $M_{\theta\theta}$−5.94±.55; $M_{\phi\phi}$2.24±.60; $M_{r\theta}$2.50±.41; $M_{r\phi}$4.83±.37; $M_{\theta\phi}$0.60±.43. Principal Axes: T 8.22,Plg49°,Azm285°; N −1.62, Plg36°,Azm73°; P −6.60,Plg16°,Azm175°. Best double couple: M_O7.4×10^{16}Nm, NP1: ϕ_S305°,δ43°,λ150°. NP2:ϕ_S58°,δ70°,λ51°.

(244) Taiwan

TAP	**IX**	**08 00 54 25.2**	**24.36N**	**121.69E**	**11**	**2.5L**		**¶97ix1147**

TAP Felt I=III J

(244) Taiwan

ISC	**IX**	**08 02 02 42.3**±.87	**24.01N**±.050	**121.49E**±.082	**12**±9.3		**13**	**0-2**
TAP	IX	08 02 02 41.8	24.00N	121.46E	11	3.9L		**¶97ix1155**

TAP Felt I=II

(377) Spain

ISC	**IX**	**08 03 26 36**±1.4	**43.31N**±.086	**2.26W**±.090	**6**±15		**21**	**1-6**
NEIC	IX	08 03 26 35.5	43.33N	2.30W	5			**¶97ix1164**
MDD	IX	08 03 26 37.3	43.29N	2.26W	3	3.0		
LDG	IX	08 03 26 38.9	43.3N	2.2W		2.9L		

NEIC mbLg3.0(MDD)
NEIC Felt I=II MM in the Azpeitia area.
MDD Felt I=II at south Zumaia

(127) Chile-Argentina border region

ISC	**IX**	**08 07 55 30.6**±.62	**35.11S**±.059	**70.88W**±.091	**95**±5.6	**3.9b**	**31**	**1-85**
NEIC	IX	08 07 55 30.2	35.13S	70.83W	91	3.8b		**¶97ix1193**
GUC	IX	08 07 55 31.0	35.07S	71.15W	86	4.1D		
EIDC	IX	08 07 55 31.3	35.2S	71.0W	92	3.9b		

NEIC Felt I=III MM at Curico and Talca, Chile.

(127) Chile-Argentina border region

ISC	**IX**	**08 11 54 22.8**±.73	**34.51S**±.081	**70.8W**±.20	**98**±7.8	**3.6b**	**18**	**1-85**
EIDC	IX	08 11 54 15.4	34.4S	72.7W	0	3.8b,3.3L		**¶97ix1216**
NEIC	IX	08 11 54 22.6	34.50S	70.77W	99			
GUC	IX	08 11 54 23.0	34.44S	70.77W	103	3.8D		

NEIC Less reliable solution.
NEIC Felt I=III MM at Curico and Talca, Chile.

(244) Taiwan

ISC	**IX**	**08 16 17 08.0**±.52	**24.04N**±.033	**121.79E**±.067	**44**±6.4	**4.0b**	**44**	**0-83**
EIDC	IX	08 16 17 04.1	24.0N	121.8E	0	3.8b,4.0L		**¶97ix1245**
NEIC	IX	08 16 17 06.8	23.98N	121.85E	33	4.2b		
TAP	IX	08 16 17 07.5	24.08N	121.69E	11	4.7L		
BJI	IX	08 16 17 09.8	24.42N	121.34E	5	4.1L,4.3b		

NEIC Less reliable solution.
TAP Felt I=III J, II Hwalien, I Tachien
BJI Ms3.8

(244) Taiwan

ISC	**IX**	**09 00 53 17**±3.3	**24.5N**±.13	**121.8E**±.39	**16**		**5**	**0-1**
TAP	IX	09 00 53 15.9	24.43N	121.80E	16	2.9L		**¶97ix1305**

TAP Felt I=III J

(224) Hokkaido region

ISC	**IX**	**09 01 19 55.8**±.24	**41.81N**±.024	**142.45E**±.052	**105**±3.5	**4.0b**	**125**	**0-79**
NEIC	IX	09 01 19 55.8	41.85N	142.31E	100	4.1b		**¶97ix1307**
JMA	IX	09 01 19 56.5±.1	41.83N±.01	142.37E±.01	98±2	4.0		
EIDC	IX	09 01 19 57.7	41.9N	142.2E	100	3.7b		

JMA Felt I=II J1

(362) Western Caucasus

ISC	**IX**	**09 17 34 52.6**±.65	**44.58N**±.081	**42.0E**±.11	**10**	3.3b	**13**	**1-26**
MOS	IX	09 17 34 54.3	44.3N	41.9E	10	4.0b		**¶97ix1416**
EIDC	IX	09 17 35 01.6	45.2N	41.2E	0	3.4b,3.9L		

MOS Felt I=III−IV MSK at Cherkessk, Nevinnomyssk.

(221) Kuril Islands

ISC	**IX**	**09 23 16 38.3**±.72	**49.52N**±.049	**156.34E**±.055	**51**±5.6	**4.8b,3.8s**	**192**	**1-146**
KRSC	IX	09 23 16 37.2	49.32N	156.79E	40	4.8b		**¶97ix1452**
MOS	IX	09 23 16 37.7	49.5N	156.2E	47	4.9b		
SKHL	IX	09 23 16 38.0	49.4N±.04	156.6E±.11	44±7			
NEIC	IX	09 23 16 39.3	49.53N	156.35E	61	4.9b		
BJI	IX	09 23 16 39.5	48.80N	156.08E	45	4.3b		
EIDC	IX	09 23 16 40.8	49.6N	156.2E	63	4.2b,3.7s		

SKHL K10.4 Felt I=II−III MSK at Severo−Kurilsk

(259) Mindanao

ISC	**IX**	**10 12 01 44.9**±.92	**8.56N**±.081	**124.3E**±.16	**33**	**3.6b**	**12**	**0-82**
EIDC	IX	10 12 01 43.3	8.7N	124.8E	0	3.7b		**¶97ix1521**
NEIC	IX	10 12 01 45.1	8.71N	125.02E	33			

NEIC Single network solution.
NEIC Felt at Iligan.

(244) Taiwan

ISC	**IX**	**10 12 28 50.7**±.78	**23.20N**±.038	**120.71E**±.063	**4**±9.7		**14**	**0-2**
TAP	IX	10 12 28 50.6	23.15N	120.74E	7	3.5L		**¶97ix1522**

TAP Felt I=III J

(13) Kodiak Island region

ISC	**IX**	**10 22 43 58.4**±.99	**56.86N**±.043	**153.97W**±.060	**30**±7.3	**4.3b**,3.3s	**147**	**1-152**
BJI	IX	10 22 43 55.1	56.90N	154.20W	10			**¶97ix1591**
EIDC	IX	10 22 43 57.3	57.2N	154.5W	0	4.2b,4.4L		
NEIC	IX	10 22 44 00.1	56.89N	154.22W	10	4.5b		

NEIC $M_{L4.8}$(PMR), $M_{L4.5}$(AEIC)
NEIC Felt I=IV MM at Old Harbor.

(244) Taiwan

ISC	**IX**	**11 09 28 50.5**±.88	**24.27N**±.041	**121.94E**±.069	**24**±7.1	**3.9b**	**33**	**0-168**
BJI	IX	11 09 28 48.4	24.09N	121.88E	150	4.9b		**¶97ix1657**
TAP	IX	11 09 28 51.0	24.28N	121.77E	9	4.5L		
NEIC	IX	11 09 29 03.9	24.23N	121.77E	150			
EIDC	IX	11 09 29 06.9	24.2N	121.7E	163	3.5b		

TAP Felt I=IV J
NEIC Single network solution.

(244) Taiwan

ISC	**IX**	**11 09 37 27**±1.8	**24.2N**±.11	**121.8E**±.20	**24**±15		**6**	**0-1**
TAP	IX	11 09 37 27.1	24.28N	121.76E	12	3.2L		**¶97ix1658**

TAP Felt I=III J

(243) Taiwan region

ISC	**IX**	**12 20 15 21**±2.2	**24.34N**±.060	**122.0E**±.21	**14**		**12**	**0-1**
TAP	IX	12 20 15 22.5	24.42N	121.84E	14	3.2L		**¶97ix1870**

TAP Felt I=III J

(274) Southern Sumatera

ISC	**IX**	**13 06 45 58.9**±.76	**4.46S**±.045	**102.75E**±.051	**62**±6.8	**5.0b**	**168**	**1-158**
DJA	IX	13 06 45 51.3	5.3S	101.8E	93	5.7L,5.4b		**¶97ix1939**
MOS	IX	13 06 45 58.5	4.3S	102.9E	60	5.5b		
BJI	IX	13 06 46 01.8	4.92S	102.74E	128	5.1b		
NEIC	IX	13 06 46 02.9	4.45S	102.84E	97	5.0b		
KLM	IX	13 06 46 03	4.4S	102.8E	97	4.4L		
EIDC	IX	13 06 46 04.3	4.5S	102.8E	96	4.6b,4.3s		
HRVD	IX	13 06 46 07.4±.7	4.45S	102.84E	97			

NEIC Mw5.2(HRV)
NEIC Felt I=III MM at Bengkulu and Manna.
KLM Mb5.0
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.61±.47; $M_{\theta\theta}$−3.47±.55; $M_{\phi\phi}$0.86±.82; $M_{r\theta}$5.38±.57; $M_{r\phi}$0.77±.78; $M_{\theta\phi}$2.91±.71. Principal Axes: T 6.59,Plg51°,Azm325°; N 0.60, Plg27°,Azm93°; P −7.19,Plg27°,Azm197°. Best double couple: M_O6.9×10^{16}Nm, NP1: ϕ_S332°,δ30°,λ153°. NP2:ϕ_S86°,δ77°,λ62°.

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
		(244) Taiwan						
ISC	**IX**	**13 07 11 01.9**±.90	**23.29N**±.047	**120.18E**±.066	**6**±8.4		**15**	**0-2**
TAP	IX	13 07 11 01.6	23.28N	120.17E	13	3.8L		**¶97ix1944**
TAP		Felt I=II J						
		(135) Near coast of Central Chile						
ISC	**IX**	**13 07 23 55**±4.8	**32.0S**±.25	**71.8W**±.36	**37**		**16**	**1-6**
NEIC	IX	13 07 23 55.5	32.00S	71.77W	35			**¶97ix1947**
GUC	IX	13 07 23 59.9	32.30S	71.52W	37	4.4D		
NEIC		Less reliable solution.						
NEIC		Felt I=II MM at La Ligua.						
		(230) Near south coast of Honshū						
ISC	**IX**	**14 05 31 59.2**±.45	**34.31N**±.027	**139.29E**±.029	**17**±4.2	**3.8b**	**99**	**0-150**
EIDC	IX	14 05 31 57.9	34.3N	139.4E	0	3.8b,3.3L		**¶97ix2075**
JMA	IX	14 05 31 59.8±.1	34.38N±.01	139.27E±.01	8±2	3.5		
NEIC	IX	14 05 32 00.6	34.28N	139.26E	33			
JMA		Felt I=III J1						
NEIC		Less reliable solution.						
		(230) Near south coast of Honshū						
ISC	**IX**	**14 05 33 19.3**±.51	**34.32N**±.029	**139.26E**±.032	**16**±4.5	**3.8b**,3.2s	**99**	**0-150**
EIDC	IX	14 05 33 18.2	34.4N	139.3E	0	3.8b,3.6L		**¶97ix2076**
JMA	IX	14 05 33 19.9±.1	34.39N±.01	139.24E±.01	3±2	3.6		
NEIC	IX	14 05 33 21.1	34.35N	139.21E	33			
JMA		Felt I=IV J1						
NEIC		Less reliable solution.						
		(230) Near south coast of Honshū						
ISC	**IX**	**14 05 33 51.5**±.69	**34.41N**±.048	**139.27E**±.077	**3**±7.2		**22**	**0-3**
JMA	IX	14 05 33 51.7±.1	34.39N±.01	139.27E±.01	3±2	3.8		**¶97ix2077**
JMA		Felt I=III J1						
		(244) Taiwan						
TAP	**IX**	**14 10 08 58.3**	**24.41N**	**121.84E**	**15**	**2.4L**		**¶97ix2104**
TAP		Felt I=III J						
		(244) Taiwan						
ISC	**IX**	**14 11 51 20**±1.4	**23.05N**±.091	**120.0E**±.11	**19**±13		**12**	**0-2**
TAP	IX	14 11 51 19.3	22.99N	120.04E	16	3.3L		**¶97ix2117**
TAP		Felt I=II J Tainan						
		(2) Southern Alaska						
ISC	**IX**	**15 02 06 41.3**±.26	**60.34N**±.025	**152.82W**±.057	**120**±3.2	**3.9b**	**136**	**0-148**
EIDC	IX	15 02 06 39.3	60.5N	153.2W	80	3.6b		**¶97ix2191**
NEIC	IX	15 02 06 43.1	60.34N	152.88W	112	4.2b		
NEIC		Felt I=II MM, After AEIC.						
NEIC		Felt I=II MM at Anchorage.						
		(235) Kyūshū						
ISC	**IX**	**15 03 03 53.4**±.38	**31.09N**±.033	**131.54E**±.035	**46**±4.8	**4.2b,4.4s**	**100**	**0-124**
BJI	IX	15 03 03 46.0	30.94N	132.12E	33	4.6b,4.5s		**¶97ix2195**
EIDC	IX	15 03 03 49.5	31.2N	131.3E	0	4.1b,3.5L		
NEIC	IX	15 03 03 53.3	31.21N	131.22E	33	4.4b		
JMA	IX	15 03 03 54.0±.2	31.14N±.01	131.46E±.03	39±2	4.2		
BJI	IX	15 03 03 59.7	31.35N	131.22E	30	4.8b,4.4s		
NEIC		Less reliable solution.						
NEIC		Felt I=II J1 in south eastern Kagoshima Prefecture.						
		(274) Southern Sumatera						
ISC	**IX**	**15 06 27 36**±1.1	**4.62S**±.078	**102.6E**±.10	**46**±10	**4.6b,3.7s**	**51**	**2-157**
KLM	IX	15 06 27 37	4.6S	102.6E	54	3.8L		**¶97ix2204**
NEIC	IX	15 06 27 37.2	4.61S	102.65E	54	4.6b		
BJI	IX	15 06 27 37.5	4.44S	102.64E	47	4.8b		
EIDC	IX	15 06 27 39.1	4.6S	102.6E	55	4.3b,3.6s		
KLM	Mb4.6							
NEIC		Felt I=III MM at Kepahiang and Manna.						
		(2) Southern Alaska						
ISC	**IX**	**15 07 38 16.7**±.19	**61.05N**±.022	**150.51W**±.038	**55**±5.2	**3.9b**	**118**	**0-44**
EIDC	IX	15 07 38 16.9	61.0N	150.8W	46	3.8b,3.6L		**¶97ix2211**
NEIC	IX	15 07 38 17.8	61.08N	150.62W	46	3.9b		
NEIC	M_L4.0(PMR), M_L3.9(AEIC). Felt I=III MM, After AEIC.							
NEIC	Felt I=III MM at Anchorage.							
		(383) Northwestern Balkan region						
ISC	**IX**	**15 11 58 31**±9.1	**45.2N**±.49	**14.3E**±.36	**5**		**4**	**0-1**
LJU	IX	15 11 58 32.5	45.3N	14.3E	5			**¶97ix2240**
ISC	Poorly determined							
ZAG	Felt in Rijeka (after RIY)							
		(244) Taiwan						
ISC	**IX**	**15 17 22 44**±1.3	**24.82N**±.057	**122.0E**±.11	**4**		**11**	**0-2**
TAP	IX	15 17 22 42.6	24.83N	121.97E	4	3.4L		**¶97ix2266**
TAP		Felt I=III J						
		(244) Taiwan						
ISC	**IX**	**15 22 26 34.9**±.50	**23.95N**±.045	**121.59E**±.049	**8**		**18**	**0-2**
TAP	IX	15 22 26 35.3	24.03N	121.54E	8	3.9L		**¶97ix2291**
JMA	IX	15 22 26 36.5±.2	23.95N±.05	121.74E±.02	128±5			
TAP		Felt I=IV J Hwalien						
		(376) Portugal						
ISC	**IX**	**16 00 23 54**±1.6	**41.43N**±.069	**8.9W**±.21	**43**±54		**21**	**1-5**
MDD	IX	16 00 23 54.1	41.48N	8.81W	10	3.4		**¶97ix2300**
LIS	IX	16 00 23 54.2	41.48N	8.78W	4	2.9L		
MDD	Felt I=II at Agucadoura Port							
		(533) United Kingdom						
ISC	**IX**	**16 00 39 06.7**±.93	**56.27N**±.056	**3.7W**±.13	**14**±9.2		**9**	**0-1**
BGS	IX	16 00 39 07.2	56.25N	3.75W	5	2.1L		**¶97ix2302**
BGS	Felt I=III+ MSK,Blackford, Tayside							
		(274) Southern Sumatera						
ISC	**IX**	**16 05 07 45**±1.1	**5.03S**±.061	**102.53E**±.070	**42**±9.0	**4.7b,4.2s**	**80**	**1-151**
DJA	IX	16 05 07 37.6	5.8S	101.7E	80	5.5L,5.3b		**¶97ix2335**
BJI	IX	16 05 07 39.5	5.56S	102.72E	38	5.0b,5.0s		
NEIC	IX	16 05 07 44.2	4.96S	102.51E	38	4.7b,4.4s		
EIDC	IX	16 05 07 46.7	5.0S	102.6E	40	4.5b,4.0s		
NEIC	Felt I=II MM at Bengkulu.							
		(233) Near south coast of Southern Honshū						
ISC	**IX**	**16 05 28 11.0**±.83	**34.66N**±.037	**135.98E**±.030	**14**±6.8	**3.6b**	**50**	**0-95**
EIDC	IX	16 05 28 09.0	34.6N	136.0E	0	3.0L,3.6b		**¶97ix2337**
JMA	IX	16 05 28 11.0±.0	34.67N±.00	135.98E±.00	17±2	3.9		
NEIC	IX	16 05 28 12.1	34.64N	135.92E	33			
JMA		Felt I=II J1						
NEIC		Less reliable solution.						
		(162) South Island, New Zealand						
ISC	**IX**	**16 10 08 15**±2.1	**43.54S**±.065	**170.18E**±.097	**8**±15	**4.1b,3.5s**	**37**	**0-152**
NEIC	IX	16 10 08 16.4	43.39S	170.19E	10	4.3b		**¶97ix2371**
EIDC	IX	16 10 08 16.7	43.3S	170.2E	0	4.1b,3.5s		
WEL	IX	16 10 08 17.5	43.67S	170.29E	5	5.0L		
NEIC	Less reliable solution.							
WEL	Felt I=IV MM Greymouth to Mt Cook							
		(162) South Island, New Zealand						
ISC	**IX**	**16 15 24 04.1**±.38	**43.55S**±.051	**170.18E**±.070	**10**	**4.1b**	**42**	**0-152**
NEIC	IX	16 15 24 04.3	43.48S	170.18E	10	4.7b		**¶97ix2403**
EIDC	IX	16 15 24 04.5	43.3S	170.2E	0	4.1b,3.6L		
WEL	IX	16 15 24 05.4	43.64S	170.26E	5	5.0L		
NEIC	Less reliable solution.							
NEIC	Felt along the west coast of the South Island.							
WEL	Felt I=IV MM Greymouth to Mt Cook							
		(201) West Irian						
ISC	**IX**	**17 06 41 13.5**±.90	**3.01S**±.055	**140.63E**±.095	**26**±8.4	**4.1b**	**20**	**0-146**
BJI	IX	17 06 41 13.6	3.00S	140.70E	33			**¶97ix2477**
NEIC	IX	17 06 41 13.6	2.99S	140.66E	33	4.0b		
EIDC	IX	17 06 41 17.0	3.2S	141.5E	40	3.7b,3.9L		
NEIC	Less reliable solution.							
NEIC	Felt I=III MM at Jayapura.							
		(135) Near coast of Central Chile						
ISC	**IX**	**17 09 03 56.9**±.79	**34.41S**±.060	**71.1W**±.11	**81**±10		**18**	**0-18**
NEIC	IX	17 09 03 56.8	34.41S	71.02W	80	3.6b		**¶97ix2490**
GUC	IX	17 09 03 58.2	34.36S	71.09W	64			
NEIC	Felt I=IV MM at Curico, Iloca, Licanten and Rancagua, III MM at Santiago and II MM at Talca.							
		(159) North Island, New Zealand						
ISC	**IX**	**17 10 53 02.1**±.85	**39.10S**±.035	**175.38E**±.080	**8**±8.2		**24**	**0-4**
NEIC	IX	17 10 53 01.8	39.09S	175.38E	5			**¶97ix2502**
WEL	IX	17 10 53 02.5	39.13S	175.43E	8	3.9L		
NEIC	Single network solution.							
WEL	Felt in National Park							
		(244) Taiwan						
ISC	**IX**	**17 14 07 37**±1.1	**24.82N**±.042	**121.97E**±.097	**6**		**17**	**0-2**
TAP	IX	17 14 07 36.2	24.83N	121.95E	6	3.8L		**¶97ix2517**
TAP		Felt I=III J						
		(266) Molucca Passage						
ISC	**IX**	**17 14 50 36.4**±.69	**2.10N**±.024	**126.61E**±.033	**45**±6.3	**5.6b,5.5s**	**350**	**2-166**
EIDC	IX	17 14 50 31.4	2.1N	126.5E	0	5.5b,4.7L		**¶97ix2522**
BJI	IX	17 14 50 34.2	1.96N	126.53E	38	5.7b,5.6s		
NEIC	IX	17 14 50 35.3	2.11N	126.60E	33	5.7b,5.5s		
MOS	IX	17 14 50 35.8	2.2N	126.6E	33	6.1b,5.4s		
HRVD	IX	17 14 50 43.6±.1	2.42N±.01	126.59E±.01	38±.5			
NEIC	Mw6.0(GS), Me5.7(GS). Felt I=III MM.							
NEIC	Mw 6.0 (HRV). Felt I=III MM at Bitung, Indonesia.							
NEIC	Radiated energy from the P−wave first−motion solution: 8.5±1.8×10^{12}Nm/13							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S230°,δ40°,λ120°. NP2:ϕ_S13°,δ56°,λ67°. Principal axes: T Plg69°,Azm232°; P Plg9°,Azm119°. Depth from synthetics of broadband displacement seismograms.							
NEIC	Moment tensor solution: s28, scale 10^{18}Nm; M_{rr}1.02; $M_{\theta\theta}$0.45; $M_{\phi\phi}$−1.47; $M_{r\theta}$−0.24; $M_{r\phi}$0.07; $M_{\theta\phi}$−0.45. Depth 37km; Principal axes: T 1.13,Plg67°,Azm193°; N 0.44,Plg23°, Azm12°; P −1.57,Plg0°,Azm103°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S214°,δ49°, λ122°. NP2:ϕ_S351°,δ50°,λ59°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c127; Mantle waves: s47,c70; Half duration: 2s4. Moment tensor: Scale 10^{18}Nm; M_{rr}1.26±.01; $M_{\theta\theta}$−0.22±.01; $M_{\phi\phi}$−1.03±.01; $M_{r\theta}$−0.20±.02; $M_{r\phi}$−0.40±.02; $M_{\theta\phi}$−0.44±.01. Principal Axes: T 1.33,Plg80°,Azm119°; N −0.03,Plg1°,Azm24°; P −1.30,Plg10°,Azm294°. Best double couple: $M_0$1.3×10^{18}Nm, NP1:ϕ_S23°,δ35°,λ89°. NP2:ϕ_S205°,δ55°,λ91°.							
		(502) Arkansas						
ISC	**IX**	**17 18 16 30.0**±.76	**35.60N**±.090	**90.64W**±.077	**5**		**11**	**1-13**
NEIC	IX	17 18 16 31.6	35.62N	90.46W	5			**¶97ix2544**
NEIC	mbLg3.8(GS).							
NEIC	Some items knocked from shelves I=V MM at Lepanto. Felt V MM at Trumann; IV MM at Leachville and Marked Tree; III MM at Bay, Black Oak, Caraway, Corning, Etowah, Lake City, Rivervale and Tyronza. Also felt at Jonesboro.							
		(178) Kermadec Islands						
ISC	**IX**	**18 00 10 55**±2.0	**30.2S**±.22	**178.4W**±.14	**80**±23	**4.2b**	**26**	**1-164**
NEIC	IX	18 00 10 55.6	30.15S	178.34W	85	4.6b		**¶97ix2582**
EIDC	IX	18 00 11 07.8	30.3S	178.5W	178	3.8b,3.6s		
NEIC	Less reliable solution.							
WEL	Felt I=IV MM Raoul Island							
EIDC	LO CONF Depth							
		(244) Taiwan						
ISC	**IX**	**18 00 44 34**±1.9	**22.2N**±.12	**120.6E**±.10	**36**±32		**13**	**0-2**
TAP	IX	18 00 44 34.0	22.27N	120.66E	31	3.8L		**¶97ix2586**
TAP	Felt I=II J Hengchun							
		(224) Hokkaido region						
ISC	**IX**	**18 03 46 06.5**±.55	**42.74N**±.027	**145.83E**±.062	**46**±4.7	**4.4b**,3.7s	**133**	**1-150**
MOS	IX	18 03 46 05.5	42.8N	145.8E	33	5.2b		**¶97ix2608**
NEIC	IX	18 03 46 07.4	42.95N	145.55E	45	4.9b		
SKHL	IX	18 03 46 08.0	42.8N±.09	145.8E±.16	41±4			
JMA	IX	18 03 46 08.4±.3	42.90N±.02	145.65E±.03	48±3	4.5		
BJI	IX	18 03 46 08.4	43.28N	145.77E	70	4.6b		
EIDC	IX	18 03 46 09.4	42.9N	145.8E	46	3.9b		
NEIC	Felt I=II J in the Kushiro and Nemuro areas. Felt II MSK at Yuzhno-Kurilsk, Kunashir.							
SKHL	K10 Felt I=I−II MSK at Juzhno−Kurilsk							
		(213) Volcano Islands region						
ISC	**IX**	**18 10 31 29.6**±.45	**25.37N**±.028	**141.37E**±.040	**205**±4.3	**4.6b**	**249**	**2-151**
NEIC	IX	18 10 31 29.4	25.28N	140.85E	197	4.6b		**¶97ix2646**
EIDC	IX	18 10 31 29.6	25.3N	140.9E	190	4.3b		
BJI	IX	18 10 31 30.7	25.46N	141.23E	218	5.3b		
JMA	IX	18 10 31 34.6±.2	25.83N±.02	141.49E±.02	212±2			
JMA	Felt I=II J1							
		(331) Kazakhstan-Xinjiang border region						
ISC	**IX**	**18 14 31 37**±1.6	**49.82N**±.036	**86.11E**±.050	**17**±12	**4.8b,4.0s**	**152**	**3-161**
MOS	IX	18 14 31 38.2	49.8N	86.3E	33	5.2b,4.0s		**¶97ix2673**
NEIC	IX	18 14 31 38.6	49.84N	86.15E	33	4.9b,4.1s		
BJI	IX	18 14 31 40.3	49.46N	86.48E	24	4.7L,4.4b		
EIDC	IX	18 14 31 45.5	49.9N	86.2E	81	4.2b,3.7s		
MOS	Felt I=II MSK at Leninogorsk,Ust−Kamenogorsk,Zyryanovsk.							
BJI	Ms4.6							
		(244) Taiwan						
ISC	**IX**	**18 19 26 12.2**±.89	**23.44N**±.057	**121.37E**±.081	**8**		**14**	**0-2**
TAP	IX	18 19 26 11.3	23.47N	121.32E	8	3.4L		**¶97ix2702**
TAP	Felt I=IV J							
		(364) Greece						
ISC	**IX**	**19 12 00 26.7**±.55	**40.05N**±.019	**21.34E**±.016	**5**±3.8	**4.8b,4.5s**	**379**	**0-139**
PDG	IX	19 12 00 24.8	39.6N	21.3E	10	4.9D		**¶97ix2789**
BJI	IX	19 12 00 26.1	39.63N	21.65E	6	5.0b,4.5s		
NEIC	IX	19 12 00 27.0	40.02N	21.33E	10	4.9b,4.5s		
EIDC	IX	19 12 00 27.7	40.0N	21.4E	0	4.7b,4.4s		
THE	IX	19 12 00 28.6	40.0N	21.4E	2	4.5L		
ATH	IX	19 12 00 28.9	40.05N	21.38E	11	4.9L		
MOS	IX	19 12 00 30.3	40.1N	21.4E	44	5.1b,4.5s		
ATH	Felt in the regions of Grevena I=V−VI MCS at Sydendro, Vatolakkos, Palaiokastro, V at Grevena, Palaiochori, Mega−Seirinio, Megaro, Kipoureio, Amygdaleai, Spilaio, Trikokkia, Phellio, IV at Knidi; in Kozani, V−VI at Avgerinos, Dryovouni, V at Galatini,							

Karyditsa, Vatero, Komanos, Charavgi, Proastio, Petrana, Pentalophos, Krokos, Kranidi, Asvestopetra, IV−V at Servia, Livadero, Damaskinea, IV at Perdikkas, Pelekanos, Protochori, Mavrodendri, Mikrokastro, Lava, Kleitos, Kastanea, Drepano, Vathylakkos, Anatoliko, Agia−Paraskevi, III−IV at Emporio, III at Philotas, Sissani, Metaxas, Eratyra, Galateia, Ardassa, Anarrachi, Aliakmon, Ermakia; in Phlorina, IV−V at Vevi, IV at Lechovo, III at Phlorina; in Ioannina, IV−V at Metsovo, IV at Konitsa, Chrysovitsa, Parakalamos, Mega−Peristeri, Katsikas, Anatoli, III at Ioannina, Zitsa; in Kastoria, IV at Argos−Orestiko, Neo−Kostarazi, Mavrochori, Vogatsiko, III at Kastoria, Nestorio; in Trikala, IV at Kalampaka, Kephalovrysso, Theopetra, Vassiliki, Valtino, III at Pyli, Stournaraiika, Neochori, Megalo−Kephalovryso, Kastraki, Gomphoi, Agrelia; in Larissa, IV at Larissa, Livadi, Rodia, Melia, Sykea, Sarantoporo, Kallipefki, Verdikoussa, III−IV at Vlachogianni, III at Pyrgetos, Deleria, Gonnoi; in Pella, IV at Edessa, Daphi, Galatades, III at Athyra; in Imathia, III at Naoussa, Loutro.

(162) South Island, New Zealand

ISC	**IX**	**19 21 37 22.0**±.89	**43.23S**±.056	**171.61E**±.070	**28**±9.3	**4.1b,3.6s**	**43**	**1-153**
NEIC	IX	19 21 37 20.5	43.08S	171.52E	10	4.0b		**¶97ix2853**
EIDC	IX	19 21 37 21.1	42.8S	171.4E	0	4.0b,3.6s		
WEL	IX	19 21 37 22.8	43.19S	171.57E	12	4.9L		

NEIC Felt at Arthur's Pass, Christchurch and many other parts of Canterbury.
WEL Felt I=IV MM Lake Coleridge and Christchurch

(43) Southern California

ISC	**IX**	**19 22 37 13.7**±.78	**34.13N**±.033	**116.85W**±.038	**12**±7.1		**44**	**0-12**
EIDC	IX	19 22 37 13.7	33.9N	117.1W	0	3.7L		**¶97ix2859**
NEIC	IX	19 22 37 14.4	34.14N	116.86W	10			

NEIC M_L4.1(PAS), M_L4.0(GS). Felt, After PAS.
NEIC Felt in the epicentral area.

(163) Cook Strait, New Zealand

ISC	**IX**	**20 00 47 12.5**±.69	**41.61S**±.073	**174.02E**±.099	**78**±15		**24**	**0-4**
WEL	IX	20 00 47 14.5	41.47S	173.95E	41	3.8L		**¶97ix2876**

WEL Felt I=IV MM Fighting Bay

(35) Near coast of Northern California

ISC	**IX**	**20 06 08 03**±2.5	**40.97N**±.073	**124.4W**±.30	**32**±9.2		**12**	**0-4**
NEIC	IX	20 06 08 02.5	40.96N	124.48W	21			**¶97ix2907**

NEIC M_L3.3(BRK), M_D3.1(GM). Felt, After GM−P.
NEIC Felt slightly at Arcata and McKinleyville.

(177) Kermadec Islands region

ISC	**IX**	**20 16 11 29.5**±.14	**28.74S**±.037	**177.58W**±.034	**11**	**6.1b,6.9s**	**729**	**1-173**
EIDC	IX	20 16 11 31.0	28.8S	177.5W	11	5.8b,6.9s		**¶97ix2961**
NEIC	IX	20 16 11 32.1	28.68S	177.62W	30	6.1b,7.0s		
BJI	IX	20 16 11 32.6	28.30S	177.21W	29	6.2b,7.0s		
MOS	IX	20 16 11 33.4	28.5S	177.6W	33	6.7b,6.8s		
HRVD	IX	20 16 11 43.0±.1	28.83S	176.99W	46±.2			

WEL Felt I=VI MM Raoul Island
NEIC Ms7.1(BRK), Mw7.0(HRV).
NEIC Mw 6.9 (GS). Me 6.5 (GS). Mo=4.4×10^{19}Nm (PPT).
NEIC Radiated energy from the P−wave first−motion solution: 1.3±0.2×10^{14}Nm/23
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S180°,δ35°,λ80°. NP2:ϕ_S12°,δ56°,λ97°. Principal axes: T Plg78°,Azm307°; P Plg10°,Azm97°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s42, scale 10^{19}Nm; M_{rr}2.48; $M_{\theta\theta}$0.16; $M_{\phi\phi}$−2.64; $M_{r\theta}$0.29; $M_{r\phi}$0.60; $M_{\theta\phi}$0.86. Depth 35km; Principal axes: T 2.61,Plg78°,Azm320°; N 0.32,Plg11°,Azm166°; P −2.93,Plg5°,Azm75°. Best double couple: M_O2.8×10^{19}Nm; NP1:ϕ_S153°,δ41°,λ73°. NP2:ϕ_S355°,δ51°,λ104°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s66,c181; Mantle waves: s63,c176; Half duration: 7s7. Moment tensor: Scale 10^{19}Nm; M_{rr}2.88±.01; $M_{\theta\theta}$−0.06±.01; $M_{\phi\phi}$−2.82±.01; $M_{r\theta}$0.49±.02; $M_{r\phi}$1.74±.02; $M_{\theta\phi}$−0.81±.01. Principal Axes: T 3.39,Plg74°,Azm286°; N 0.16,Plg0°,Azm195°; P −3.55,Plg16°,Azm105°. Best double couple: M_O3.5×10^{19}Nm, NP1:ϕ_S195°,δ29°,λ90°. NP2:ϕ_S15°,δ61°,λ90°.

(177) Kermadec Islands region

ISC	**IX**	**20 16 34 46**±1.6	**28.8S**±.17	**177.6W**±.15	**72**±13	**4.1b**	**26**	**0-158**
EIDC	IX	20 16 34 37.6	28.7S	177.5W	0	4.3b		**¶97ix2969**
NEIC	IX	20 16 34 45.8	28.85S	177.59W	74	4.3b		

WEL Felt I=IV MM Raoul Island
NEIC Less reliable solution.

(177) Kermadec Islands region

ISC	**IX**	**20 17 25 55**±1.7	**28.4S**±.27	**177.5W**±.23	**33**	**4.0b**	**11**	**1-147**
EIDC	IX	20 17 25 49.9	28.2S	177.3W	0	4.0b		**¶97ix2974**
NEIC	IX	20 17 25 56.3	28.76S	177.66W	33	4.0b		

WEL Felt I=IV MM Raoul Island
NEIC Poor solution.

(177) Kermadec Islands region

ISC	**IX**	**20 17 31 48**±2.4	**28.3S**±.16	**177.5W**±.41	**33**	**3.8b**	**9**	**1-147**
EIDC	IX	20 17 31 43.5	28.5S	177.4W	0	3.9b		**¶97ix2977**
NEIC	IX	20 17 31 47.9	28.57S	177.57W	33			

NEIC Poor solution.
WEL Felt I=IV MM Raoul Island

(178) Kermadec Islands

ISC	**IX**	**20 18 11 00.4**±.21	**29.06S**±.047	**177.59W**±.050	**67**±2.1*	**5.4b**	**367**	**0-171**
MOS	IX	20 18 10 56.9	28.7S	177.7W	33	5.9b		**¶97ix2981**
NEIC	IX	20 18 11 01.3	28.90S	177.65W	74	5.6b		
BJI	IX	20 18 11 01.7	28.01S	176.77W	76	5.6b,6.1s		
EIDC	IX	20 18 11 06.3	28.8S	177.7W	100	5.0b		

WEL Felt I=IV MM Raoul Island

(177) Kermadec Islands region

ISC	**IX**	**20 18 29 12**±1.5	**28.4S**±.18	**177.6W**±.23	**33**	**3.8b**	**13**	**1-147**
EIDC	IX	20 18 29 09.9	28.9S	177.7W	0	3.9b		**¶97ix2985**
NEIC	IX	20 18 29 12.7	28.45S	177.71W	33	3.5b		

WEL Felt I=II MM Raoul Felt Island
NEIC Poor solution.

(135) Near coast of Central Chile

ISC	**IX**	**20 23 12 43**±1.4	**37.0S**±.14	**72.3W**±.17	**80**±12	**4.5b**	**21**	**1-76**
NEIC	IX	20 23 12 41.9	37.05S	72.39W	100			**¶97ix3009**
GUC	IX	20 23 12 43.0	36.94S	72.62W	105	4.3D		

NEIC Less reliable solution.
NEIC Felt I=III MM at Concepcion and Chillan; II MM at Angol, Coronel and Los Angeles.

(244) Taiwan

ISC	**IX**	**21 06 52 11**±1.0	**24.37N**±.059	**121.8E**±.12	**23**±13		**14**	**0-2**
TAP	IX	21 06 52 10.8	24.41N	121.68E	27	3.5L		**¶97ix3052**

TAP Felt I=II J

(716) Kirgiziya

ISC	**IX**	**21 08 24 19.9**±.98	**42.82N**±.045	**74.84E**±.074	**22**±8.7	**3.9b,3.8s**	**36**	**0-95**
BJI	IX	21 08 24 18.0	42.96N	75.09E	5	4.4L,4.5b		**¶97ix3066**
NEIC	IX	21 08 24 20.2	42.74N	74.53E	33	4.4b		
EIDC	IX	21 08 24 20.2	42.5N	74.2E	23	3.7b,3.9s		
MOS	IX	21 08 24 20.6	42.8N	74.7E	33	4.5b,4.1s		
BJI	Ms4.4							

NEIC Felt I=IV MM, Less reliable solution.
MOS Felt I=IV−III MSK at Yuryevka, I=III at Bishkek.

(159) North Island, New Zealand

ISC	**IX**	**21 17 31 41.9**±.86	**38.5S**±.11	**175.9E**±.15	**189**		**21**	**0-6**
WEL	IX	21 17 31 42.0	38.30S	175.85E	189	4.1L		**¶97ix3137**

NEIC Felt I=V−VI MM Blenheim, Seddon, Wellington (after CAW)

(244) Taiwan

ISC	**IX**	**21 20 53 47**±3.1	**24.5N**±.12	**122.0E**±.27	**10**		**5**	**1-1**
TAP	IX	21 20 53 46.7	24.45N	121.91E	10	2.8L		**¶97ix3161**

TAP Felt I=II J

(177) Kermadec Islands region

ISC	**IX**	**21 22 08 23**±1.6	**28.8S**±.15	**177.6W**±.13	**67**±13	**4.2b**	**31**	**1-158**
EIDC	IX	21 22 08 23.1	28.7S	177.5W	59	4.1b,3.9s		**¶97ix3174**
NEIC	IX	21 22 08 32.4	28.92S	177.66W	150	4.1b		

WEL Felt I=II MM Raoul Island
NEIC Less reliable solution.

(221) Kuril Islands

ISC	**IX**	**22 01 56 58.6**±.59	**43.50N**±.029	**147.55E**±.053	**39**±5.2	**4.7b,4.1s**	**227**	**1-154**
JMA	IX	22 01 56 57.6±.4	43.48N±.03	147.51E±.03	16	4.7		**¶97ix3197**
MOS	IX	22 01 56 58.1	43.6N	147.4E	33	5.0b		
NEIC	IX	22 01 56 58.4	43.67N	147.39E	33	4.8b,4.1s		
BJI	IX	22 01 56 58.8	43.79N	147.77E	53	5.1b,4.2s		
SKHL	IX	22 01 57 00.0	43.6N	147.4E	50			
EIDC	IX	22 01 57 02.5	43.8N	147.3E	49	4.3b,3.9s		

MOS Felt I=II−III MSK at Yuzhno−Kurilsk.
SKHL K11 Felt I=II−III MSK at Yuzhno−Kurilsk

(378) Pyrenees

ISC	**IX**	**22 06 20 46.5**±.59	**42.48N**±.040	**1.53E**±.032	**2**±4.9		**52**	**0-7**
NEIC	IX	22 06 20 45.4	42.28N	1.42E	10			**¶97ix3230**
FBR	IX	22 06 20 47.0	42.44N	1.47E	4	2.6D		
MDD	IX	22 06 20 47.7	42.45N	1.47E	1	3.0		
STR	IX	22 06 20 49.3	42.58N	1.45E	5	3.5L		
LDG	IX	22 06 20 49.4	42.5N	1.5E		3.3L		

PIST Felt I=I MSK in the Eastern Pyrenees
NEIC mbLg 3.0 (MDD).
FBR Felt I=III MSK Seu d'Urgell

(228) Near east coast of Honshū

ISC	**IX**	**23 02 30 48.4**±.36	**39.99N**±.024	**142.36E**±.064	**48**±6.0	**3.9b**,2.9s	**99**	**0-88**
JMA	IX	23 02 30 48.6±.1	40.04N±.01	142.24E±.02	48±2	4.2		**¶97ix3360**
EIDC	IX	23 02 30 51.2	40.0N	142.1E	56	3.6b,3.1s		
NEIC	IX	23 02 30 52.3	39.92N	141.99E	86	4.0b		

JMA Felt I= II J1
NEIC Less reliable solution.

(246) South-western Ryūkyū Islands

ISC	**IX**	**23 07 59 59**±1.2	**24.3N**±.13	**123.7E**±.10	**15**±11		**6**	**0-2**
JMA	IX	23 07 59 59.6±.0	24.35N±.01	123.73E±.00	14±1	3.5		**¶97ix3392**

ISC Poorly determined
JMA Felt I=II J1

(377) Spain

ISC	**IX**	**23 12 40 26.3**±.60	**37.09N**±.052	**3.70W**±.052	**8**±6.1		**19**	**0-4**
NEIC	IX	23 12 40 24.1	37.08N	3.70W	10			**¶97ix3421**
MDD	IX	23 12 40 27.2	37.08N	3.69W	4	3.1		

NEIC mbLg3.1(MDD), Single network solution.
NEIC Felt I=II MM in the Alhendin area.
MDD Felt I=II at east Mala

(197) Near north coast of West Irian

ISC	**IX**	**23 17 41 56.4**±.62	**2.78S**±.051	**140.79E**±.076	**40**±6.5	**4.2b**,3.3s	**37**	**0-151**
EIDC	IX	23 17 41 52.3	2.7S	141.1E	0	4.1b,4.3L		**¶97ix3460**
BJI	IX	23 17 41 55.4	2.86S	141.36E	53	4.5b		
NEIC	IX	23 17 41 55.7	2.81S	140.83E	33	4.3b		

NEIC Felt I=III MM at Jayapura. Also felt at Sentani.

(7) Andreanof Islands

ISC	**IX**	**23 20 44 54**±2.2	**51.57N**±.064	**173.54W**±.049	**23**±15	**4.7b,4.4s**	**156**	**2-92**
BJI	IX	23 20 44 52.9	52.15N	174.11W	2	5.1b,4.8s		**¶97ix3476**
MOS	IX	23 20 44 54.6	51.6N	173.5W	33	5.1b		
NEIC	IX	23 20 44 54.7	51.58N	173.50W	33	4.9b,4.2s		

NEIC Felt slightly at Atka.

(230) Near south coast of Honshū

ISC	**IX**	**23 22 02 37.0**±.36	**35.51N**±.021	**139.02E**±.027	**23**±4.6	**3.8b**	**95**	**0-149**
NEIC	IX	23 22 02 35.0	35.46N	139.07E	33	3.4b		**¶97ix3485**
JMA	IX	23 22 02 36.9±.0	35.54N±.00	139.01E±.00	20±1	3.9		
EIDC	IX	23 22 02 39.0	35.5N	138.9E	46	3.7b,3.7L		

NEIC Less reliable solution.
NEIC Felt I=III J1 in western Chiba, northern Kanagawa and southern Saitama Prefectures.

(218) Near east coast of Kamchatka

ISC	**IX**	**24 02 32 18.8**±.86	**56.29N**±.066	**162.55E**±.091	**30**±7.0	**4.2b**	**45**	**0-83**
EIDC	IX	24 02 32 16.2	56.1N	162.9E	0	4.1b		**¶97ix3514**
KRSC	IX	24 02 32 16.8	56.50N	162.61E	30	4.6b		
MOS	IX	24 02 32 19.2	56.1N	163.1E	27	4.5b		
NEIC	IX	24 02 32 19.4	56.20N	162.73E	33	4.4b		

KRSC Felt I=II MSK, Ust−Kamchatskiy
NEIC Less reliable solution.

(39) Central California

ISC	**IX**	**24 04 41 33.3**±.65	**37.98N**±.056	**122.36W**±.069	**10**±4.9		**18**	**0-2**
NEIC	IX	24 04 41 33.7	37.97N	122.34W	6			**¶97ix3524**

NEIC M_L2.6(BRK), M_D2.5(GM). Felt, After GM−P.
NEIC Felt at El Cerrito, El Sobrante and Richmond.

(25) Vancouver Island region

ISC	**IX**	**24 06 10 21.0**±.53	**48.65N**±.023	**123.12W**±.040	**13**±4.8		**69**	**0-15**
NEIC	IX	24 06 10 22.0	48.62N	123.12W	8			**¶97ix3535**
PGC	IX	24 06 10 22.0	48.6N	123.1W	8	3.0L		

NEIC M_D3.5(SEA) After PGC.
PGC Near San Juan Island, Washington. Felt on the Gulf Islands of Washington and British Columbia. Felt I=III on southern Vancouver Island in the greater Victoria area from Sidney to Sooke. Also felt mildly in the lower mainland − Vancouver area.

(348) Iran

ISC	**IX**	**24 20 23 51**±1.1	**35.8N**±.15	**56.8E**±.13	**33**	**3.6b,**3.7s	**10**	**2-47**
EIDC	IX	24 20 23 49.0	35.8N	56.7E	0	3.8b,3.6s		**¶97ix3628**
NEIC	IX	24 20 23 51.1	35.81N	56.77E	33	4.2b		

NEIC Less reliable solution.
NEIC Felt at Sabzevar.

(135) Near coast of Central Chile

ISC	**IX**	**24 22 06 56.9**±.76	**31.74S**±.047	**71.48W**±.078	**57**±7.2	**4.9b**	**74**	**1-170**
GUC	IX	24 22 06 56.4	31.84S	71.64W	26	5.0D		**¶97ix3641**
BJI	IX	24 22 06 56.4	31.70S	71.50W	54	5.5s		
NEIC	IX	24 22 06 56.4	31.74S	71.55W	54	4.9b		
EIDC	IX	24 22 06 56.7	31.8S	71.5W	42	4.7b,4.6L		

NEIC Felt I=IV MM at La Ligua, Petorca, Quillota and Valparaiso; III MM at Canela, Illapel, Los Vilos, Salamanca, San Felipe and Santiago; II MM at Los Andes, Rancagua and San Antonio.

(348) Iran

ISC	**IX**	**24 22 27 36**±1.2	**35.69N**±.095	**56.94E**±.055	**46**±12	**4.4b,3.7s**	**74**	**2-82**
NEIC	IX	24 22 27 34.4	35.69N	56.92E	33	4.5b,3.6s		**¶97ix3642**
BJI	IX	24 22 27 36.9	36.34N	57.30E	5	4.8b		
EIDC	IX	24 22 27 40.4	35.7N	56.9E	70	4.0b,3.9s		

NEIC Felt at Sabzevar.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(584) South Africa						
ISC	**IX 25 00 05 23**±1.6	**26.37S**±.052	**27.35E**±.072	**6**±10	**4.7b,**3.7s	**84**	**1-149**
NEIC	IX 25 00 05 23.2	26.37S	27.41E	5	4.7b		**¶97ix3653**
EIDC	IX 25 00 05 24.3	26.4S	27.4E	0	4.5b,5.1L		
PRE	IX 25 00 05 25.1	26.43S	27.47E	2	4.5L		
NEIC	mbLg4.5(BUL). Casualties.						
NEIC	At least three people injured at the East Dreifontein gold mine. Felt at Johannesburg.						
	(43) Southern California						
ISC	**IX 25 20 08 07.1**±.62	**34.40N**±.034	**118.38W**±.052	**8**±6.1		**27**	**0-3**
NEIC	IX 25 20 08 07.8	34.40N	118.35W	5			**¶97ix3786**
NEIC	ML3.4(PAS). Felt, After PAS.						
NEIC	Felt in the San Fernando Valley.						
	(228) Near east coast of Honshū						
ISC	**IX 25 20 39 21.8**±.48	**38.30N**±.033	**141.85E**±.076	**64**±6.3	**4.0b**	**70**	**0-73**
JMA	IX 25 20 39 22.6±.1	38.30N±.00	141.69E±.01	57±2	3.9		**¶97ix3791**
NEIC	IX 25 20 39 22.8	38.32N	141.78E	73			
EIDC	IX 25 20 39 24.5	38.2N	141.8E	68	3.7b		
JMA	Felt I=II J1						
NEIC	Less reliable solution.						
NEIC	Felt I=II J1 in northeastern Miyagi Prefecture.						
	(2) Southern Alaska						
ISC	**IX 25 21 51 14.5**±.21	**61.97N**±.021	**150.01W**±.046	**51**±6.0	**3.8b**	**103**	**0-147**
NEIC	IX 25 21 51 15.6	61.94N	150.04W	38	4.0b		**¶97ix3796**
EIDC	IX 25 21 51 18.8	62.1N	149.8W	80	3.5b		
NEIC	ML4.0(PMR), ML3.9(AEIC). Felt I=II MM, After AEIC.						
NEIC	Felt I=II MM at Talkeetna. Also felt at Palmer and Willow.						
	(381) Central Italy						
ISC	**IX 26 00 33 12.7**±.10	**43.06N**±.014	**12.89E**±.014	**10**	**5.5b,5.6s**	**571**	**0-150**
PDG	IX 26 00 32 14.9	42.9N	12.9E	10	5.5D		**¶97ix3814**
BJI	IX 26 00 33 09.5	42.82N	12.72E	3	5.6b,6.0s		
LEDBW	IX 26 00 33 09.6	42.35N	13.59E	10	5.4L		
CSEM	IX 26 00 33 10.1	42.70N	12.75E	10			
ROM	IX 26 00 33 11.8	43.0N	12.9E	8	5.6D		
MOS	IX 26 00 33 12.0	43.0N	12.9E	10	5.8b,5.7s		
NEIC	IX 26 00 33 12.2	43.05N	12.88E	10	5.5b,5.6s		
EIDC	IX 26 00 33 12.4	43.0N	12.8E	0	5.2b,4.8L		
LDG	IX 26 00 33 12.6	42.9N	13.0E		5.2L		
THE	IX 26 00 33 17.7	42.9N	12.8E		5.5L		
STR	IX 26 00 33 18.9	43.26N	12.53E	10	5.7L		
HRVD	IX 26 00 33 18.9±.2	43.01N±.02	12.86E±.03	15			
PIST	Felt I=I MSK in the Western Pyrenees						
LEDBW	Felt I=VIII MSK						
CSEM	Mw5.9. M_0=7.3×10^{17}Nm. Fault plane solution NP1:ϕ_S166°,δ36°,λ−47°. NP2:ϕ_S297°,δ65°, λ−116°. Principal Axes: T Plg16°,Azm46°; N Plg24°,Azm309°; P Plg61°,Azm166°.						
NEIC	ML5.9(VIE), Mw5.7(HRV). Casualties I=VIII MM.						
NEIC	Radiated energy from the P−wave first−motion solution: 7.6±2.3×10^{12}Nm/11						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S195°,δ55°,λ−25°. NP2:ϕ_S300°,δ70°, λ−142°. Principal axes: T Plg9°,Azm65°; P Plg41°,Azm163°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Mw 5.6 (GS). Me 5.7 (GS). ML 5.6 (FUR). Casualties and damage in the Marche and Umbria regions are included in the comment for the event at 09:40:26 UTC on September 26. Maximum intensity I=VIII MM in the epicentral area. Damage to the Basilica of St. Francis at Assisi.						
NEIC	Moment tensor solution: s5, scale 10^{17}Nm; M_{rr}−3.13; $M_{\theta\theta}$0.29; $M_{\phi\phi}$2.84; $M_{r\theta}$0.20; $M_{r\phi}$−0.36; $M_{\theta\phi}$−1.44. Depth 7km; Principal axes: T 3.52,Plg4°,Azm66°; N −0.36,Plg1°, Azm336°; P −3.16,Plg86°,Azm234°. Best double couple: $M_0$3.3×10^{17}Nm; NP1:ϕ_S157°,δ41°, λ−89°. NP2:ϕ_S335°,δ49°,λ−91°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c75; Mantle waves: s21,c27; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−3.11±.10; $M_{\theta\theta}$0.85±.08; $M_{\phi\phi}$2.26±.10; $M_{r\theta}$1.05±.24; $M_{r\phi}$−0.53±.29; $M_{\theta\phi}$−2.45±.10. Principal Axes: T 4.26,Plg8°,Azm52°; N −0.89,Plg12°,Azm320°; P −3.38,Plg75°,Azm176°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S156°,δ38°,λ−71°. NP2:ϕ_S312°,δ54°,λ−105°.						
	(381) Central Italy						
ISC	**IX 26 01 35 10**±1.1	**42.79N**±.078	**13.1E**±.13	**10**		**21**	**3-9**
LDG	IX 26 01 35 12.6	42.8N	13.1E		3.0L		**¶97ix3832**
NEIC	IX 26 01 35 13.4	43.03N	12.84E	10			
NEIC	MD3.3(ROM), Less reliable solution.						
NEIC	Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 26 01 53 53.8**±.86	**43.01N**±.032	**12.96E**±.044	**4**±7.2	3.8b	**92**	**0-27**
ROM	IX 26 01 53 53.4	43.0N	13.0E	6	3.4D		**¶97ix3836**
NEIC	IX 26 01 53 54.3	42.97N	12.94E	10			
LDG	IX 26 01 53 55.0	42.9N	13.1E		3.4L		
STR	IX 26 01 54 03.5	43.35N	12.37E	10	3.8L		
EIDC	IX 26 01 54 04.0	43.7N	13.3E	0	3.9L,4.0b		
NEIC	ML3.9(VIE)						
NEIC	Felt I=V MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 26 02 07 16.6**±.92	**43.00N**±.032	**12.82E**±.035	**8**±7.0	4.0b	**90**	**0-27**
LDG	IX 26 02 07 15.7	42.9N	13.1E		3.6L		**¶97ix3839**
NEIC	IX 26 02 07 16.9	42.97N	12.80E	10			
ROM	IX 26 02 07 17.7	43.1N	12.8E	5	3.6D		
STR	IX 26 02 07 24.0	43.32N	12.38E	10	4.0L		
EIDC	IX 26 02 07 24.1	43.6N	12.8E	0	4.0L,4.2b		
NEIC	ML4.2(VIE)						
NEIC	Felt I=V MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 26 04 44 44.0**±.32	**42.97N**±.037	**12.91E**±.031	**10**	3.7b	**98**	**1-71**
NEIC	IX 26 04 44 36.8	42.55N	13.38E	10			**¶97ix3881**
LDG	IX 26 04 44 44.7	42.9N	13.1E		3.8L		
EIDC	IX 26 04 44 45.8	43.1N	13.7E	0	4.1L,3.4s		
PDG	IX 26 04 44 48.4	44.0N	13.4E	10	3.6L		
STR	IX 26 04 44 49.2	43.20N	12.72E	10	4.2L		
NEIC	ML4.4(VIE)						
NEIC	MD 3.7 (ROM). Felt I=V MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 26 09 40 25.3**±.50	**43.09N**±.013	**12.82E**±.013	**0**±3.4	**5.7b,6.1s**	**642**	**0-150**
ROM	IX 26 09 40 24.9	43.0N	12.9E	6	5.8D		**¶97ix3938**
BJI	IX 26 09 40 25.7	43.06N	12.79E	10	6.0b,6.4s		
MOS	IX 26 09 40 26.2	43.1N	12.9E	10	6.4b,6.0s		
NEIC	IX 26 09 40 26.3	43.08N	12.81E	10	5.7b,6.0s		
CSEM	IX 26 09 40 27.0	43.09N	12.96E	10			
LDG	IX 26 09 40 27.8	42.9N	12.8E		5.6L		
LEDBW	IX 26 09 40 28.8	42.49N	12.76E	10	6.0L		
PDG	IX 26 09 40 28.9	42.6N	12.9E	10	5.8D		
EIDC	IX 26 09 40 29.5	43.0N	12.7E	18	5.2b,6.0s		
THE	IX 26 09 40 32.1	43.0N	12.7E				
HRVD	IX 26 09 40 33.3±.1	43.08N±.01	12.78E±.02	15			
STR	IX 26 09 40 34.2	43.33N	12.33E	10	6.0L		
ISC	Felt I=IV−V MSK in Log pri Brezovici (after CEY)						
NEIC	ML6.4(VIE), Me6.1(GS). Casualties I=X MM.						
NEIC	Radiated energy from the P−wave first−motion solution: 2.9±0.7×10^{13}Nm/18						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S200°,δ55°,λ−30°. NP2:ϕ_S308°,δ66°, λ−141°. Principal axes: T Plg7°,Azm72°; P Plg44°,Azm168°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s26, scale 10^{17}Nm; M_{rr}−9.90; $M_{\theta\theta}$3.10; $M_{\phi\phi}$6.70; $M_{r\theta}$1.00; $M_{r\phi}$−0.70; $M_{\theta\phi}$−5.70. Depth 3km; Principal axes: T 11.0,Plg3°,Azm54°; N −1.0,Plg2°, Azm324°; P −9.9,Plg86°,Azm199°. Best double couple: $M_0$1.0×10^{18}Nm; NP1:ϕ_S146°,δ42°, λ−87°. NP2:ϕ_S322°,δ48°,λ−93°.						
NEIC	Mw 6.0 (GS), 6.0 (HRV). ML 6.2 (FUR). Eleven people killed, more than 100 injured and about 80,000 homes destroyed or damaged in the Marche and Umbria regions by this earthquake and the event at 00:33:12 UTC on September 26. Maximum intensity I=X MCS at Serravalle di Chienti and IX MCS at Valtopina. Extensive damage to the Basilica of St. Francis at Assisi. Felt in many parts of central and northern Italy from Bologna and Modena to Rome. Felt IV MSK in western and central Slovenia and III MSK in southern Karnten Province, Austria.						
NEIC	Felt I=III MSK southern Carinthia (after WTTA)						
CSEM	Mw6.0. M_0=1.1×10^{18}Nm. Fault plane solution NP1:ϕ_S75°,δ45°,λ−128°. NP2:ϕ_S303°,δ56°, λ−58°. Principal Axes: T Plg6°,Azm11°; N Plg26°,Azm104°; P Plg63°,Azm269°.						
LEDBW	Felt I=XI MSK						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c100; Mantle waves: s36,c55; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}−1.07±.01; $M_{\theta\theta}$0.43±.01; $M_{\phi\phi}$0.64±.01; $M_{r\theta}$0.18±.05; $M_{r\phi}$−0.16±.05; $M_{\theta\phi}$−0.61±.01. Principal Axes: T 1.18,Plg6°,Azm50°; N −0.09,Plg2°,Azm320°; P −1.09,Plg84°,Azm214°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S142°,δ39°,λ−87°. NP2:ϕ_S318°,δ51°,λ−92°.						
	(381) Central Italy						
ISC	**IX 26 09 47 38.5**±.22	**43.16N**±.027	**12.80E**±.032	**10**	**4.6b,**5.6s	**118**	**1-143**
BJI	IX 26 09 47 37.6	43.93N	12.45E	5	5.2b		**¶97ix3939**
EIDC	IX 26 09 47 38.3	43.1N	12.9E	0	4.4b,4.5L		
MOS	IX 26 09 47 38.5	43.1N	12.8E	10	5.0b		
NEIC	IX 26 09 47 38.6	43.16N	12.75E	10	4.7b		
LDG	IX 26 09 47 40.1	43.1N	12.8E		4.7L		
PDG	IX 26 09 47 46.8	42.7N	13.5E	11	4.6L		
NEIC	ML5.3(VIE), ML4.7(ROM)						
NEIC	Additional damage I=VII MCS to buildings in the epicentral area.						
	(366) Turkey						
ISC	**IX 26 11 13 11.6**±.67	**39.23N**±.068	**41.34E**±.085	**74**±9.0	**4.1b**	**29**	**1-54**
ISK	IX 26 11 13 06.3	39.33N	41.44E	10	3.7D		**¶97ix3969**
EIDC	IX 26 11 13 07.4	39.4N	40.8E	0	4.1b,3.6L		
NEIC	IX 26 11 13 09.7	39.30N	40.83E	33	4.1b		
NEIC	Less reliable solution.						
NEIC	Felt at Erzurum.						
	(381) Central Italy						
ISC	**IX 26 13 10 12.7**±.73	**43.13N**±.028	**12.71E**±.040	**12**±5.8	3.7b	**71**	**0-71**
STR	IX 26 13 10 07.3	42.79N	13.35E	10	4.2L		**¶97ix4012**
EIDC	IX 26 13 10 08.6	42.7N	13.4E	0	3.6b,4.1L		
LDG	IX 26 13 10 08.8	42.9N	13.2E		3.5L		
NEIC	IX 26 13 10 11.9	43.06N	12.70E	10	3.8b		
ROM	IX 26 13 10 12.1	43.1N	12.8E	4	3.2D		
NEIC	ML4.2(VIE)						
NEIC	Felt I=V MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 26 13 30 51.9**±.72	**43.04N**±.021	**12.92E**±.022	**8**±5.5	**4.2b,**3.9s	**184**	**0-128**
ROM	IX 26 13 30 50.9	43.0N	13.0E	5	3.7D		**¶97ix4020**
MOS	IX 26 13 30 51.8	43.0N	13.0E	10	5.0b		
NEIC	IX 26 13 30 51.8	43.03N	12.94E	10	4.7b		
BJI	IX 26 13 30 52.2	42.48N	13.74E	5	4.9b		
EIDC	IX 26 13 30 52.3	43.0N	13.0E	0	4.0b,4.3L		
LDG	IX 26 13 30 53.6	43.0N	13.0E		4.1L		
PDG	IX 26 13 30 56.3	43.2N	13.2E	10	4.1L		
STR	IX 26 13 30 59.0	43.32N	12.51E	10	4.5L		
NEIC	Felt I=VI MCS in the epicentral area.						
	(235) Kyūshū						
ISC	**IX 26 14 51 02.7**±.55	**31.95N**±.043	**130.39E**±.050	**9**		**27**	**0-3**
JMA	IX 26 14 51 02.6±.1	31.96N±.00	130.45E±.01	9±3	3.4		**¶97ix4049**
JMA	Felt I=II J1						
	(381) Central Italy						
ISC	**IX 26 14 54 27.2**±.72	**43.02N**±.021	**12.90E**±.023	**9**±5.6	**4.2b**	**183**	**0-143**
BJI	IX 26 14 54 23.8	43.54N	11.97E	10	5.0b		**¶97ix4052**
ROM	IX 26 14 54 25.9	43.0N	13.0E	4	3.7D		
LDG	IX 26 14 54 26.0	42.9N	13.3E		4.0L		
EIDC	IX 26 14 54 26.4	42.8N	13.0E	0	3.9b,4.2L		
NEIC	IX 26 14 54 27.8	43.07N	12.85E	10	4.0b		
PDG	IX 26 14 54 28.0	43.6N	13.0E	11	4.4L		
MOS	IX 26 14 54 28.9	43.2N	13.1E	10	5.0b		
STR	IX 26 14 54 48.9	43.90N	11.08E	10	4.1L		
NEIC	ML4.6(VIE)						
NEIC	Felt I=V MKS in the epicentral area.						
	(1) Central Alaska						
ISC	**IX 26 15 23 10.1**±.35	**63.39N**±.025	**145.31W**±.073	**6**		**59**	**0-5**
NEIC	IX 26 15 23 10.1	63.34N	145.34W	6			**¶97ix4056**
NEIC	ML3.4(PMR), ML3.2(AEIC). Felt, After AEIC.						
NEIC	Felt in the epicentral area.						
	(381) Central Italy						
ISC	**IX 26 16 18 38.3**±.58	**43.03N**±.032	**12.88E**±.044	**26**±6.7		**65**	**0-8**
LDG	IX 26 16 18 37.0	42.9N	13.1E		3.5L		**¶97ix4073**
NEIC	IX 26 16 18 37.3	43.08N	12.88E	10			
ROM	IX 26 16 18 38.6	42.9N	12.8E	7	3.2D		
STR	IX 26 16 18 43.4	43.29N	12.49E	10	4.0L		
NEIC	ML4.0(VIE)						
NEIC	ML 3.5 (LDG). Felt I=V MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 26 21 01 32**±1.2	**43.04N**±.054	**12.87E**±.085	**15**±8.6		**21**	**0-7**
ROM	IX 26 21 01 30.4	43.0N	13.0E	5	2.4D		**¶97ix4142**
LDG	IX 26 21 01 31.5	42.9N	13.1E		3.0L		
NEIC	IX 26 21 01 33.3	43.19N	12.69E	10			
NEIC	Less reliable solution.						
NEIC	Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 27 02 12 25.4**±.81	**43.02N**±.038	**12.78E**±.076	**9**±6.9		**26**	**0-7**
NEIC	IX 27 02 12 18.9	42.86N	13.36E	10			**¶97ix4222**
ROM	IX 27 02 12 24.6	43.0N	12.9E	5	3.0D		
LDG	IX 27 02 12 26.3	42.9N	12.9E		3.1L		
NEIC	Poor solution.						
NEIC	Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 27 02 17 24.3**±.76	**43.10N**±.024	**12.85E**±.027	**13**±5.9	**4.2b**	**121**	**0-71**
EIDC	IX 27 02 17 23.5	43.1N	13.2E	0	4.0L,4.1b		**¶97ix4223**
LDG	IX 27 02 17 23.6	43.0N	13.1E		3.7L		
NEIC	IX 27 02 17 24.0	43.09N	12.78E	10			

ROM IX 27 02 17 24.5 43.1N 12.9E 5 3.5D
STR IX 27 02 17 25.6 43.04N 12.81E 10 4.1L
PDG IX 27 02 17 29.3 42.8N 13.3E 11 3.8L
NEIC M_L4.2(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 27 03 03 21.2±.78 43.05N±.025 12.79E±.029 11±6.2 97 0-20
ROM IX 27 03 03 20.3 43.1N 12.9E 4 3.6D **¶97ix4232**
NEIC IX 27 03 03 21.0 43.03N 12.77E 10
LDG IX 27 03 03 22.3 43.0N 12.9E 3.5L
PDG IX 27 03 03 26.4 42.8N 13.2E 10 3.8L
STR IX 27 03 03 28.0 43.28N 12.31E 10 3.9L
EIDC IX 27 03 03 29.9 43.7N 13.2E 0 3.7L
NEIC M_L4.1(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 27 04 57 15.3±.79 43.00N±.026 12.77E±.034 12±6.0 3.9b 118 0-71
LDG IX 27 04 57 13.9 42.9N 13.1E 3.8L **¶97ix4249**
ROM IX 27 04 57 14.3 43.0N 12.9E 5 3.7D
STR IX 27 04 57 14.6 42.92N 12.97E 10 4.2L
EIDC IX 27 04 57 14.7 42.9N 12.8E 0 3.8b,4.0L
NEIC IX 27 04 57 15.6 43.04N 12.72E 10 4.0b
NEIC M_L4.2(VIE)
NEIC Felt I=V MCS in the epicentral area.

(228) Near east coast of Honshū

ISC IX 27 05 22 17.9±.53 36.25N±.036 141.00E±.067 54±6.6 3.7b 65 1-75
EIDC IX 27 05 22 12.3 36.3N 141.0E 0 3.8b,3.8L **¶97ix4256**
JMA IX 27 05 22 17.8±.1 36.26N±.01 140.91E±.02 44±3 3.8
NEIC IX 27 05 22 19.8 36.24N 140.80E 75
NEIC Less reliable solution.
NEIC Felt I=II J1 in Ibaraki Prefecture.

(381) Central Italy

ISC IX 27 05 52 57±1.1 43.04N±.041 13.02E±.066 11±8.3 3.4b 29 0-71
NEIC IX 27 05 52 56.3 43.03N 13.03E 10 **¶97ix4265**
ROM IX 27 05 52 56.9 43.0N 12.9E 5 3.3D
EIDC IX 27 05 52 59.0 43.2N 13.3E 0 3.8L,3.3b
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 27 06 03 03.2±.77 43.05N±.024 12.72E±.026 15±6.0 4.0b 133 0-71
LDG IX 27 06 03 01.1 42.9N 13.1E 3.9L **¶97ix4267**
ROM IX 27 06 03 02.1 43.1N 12.8E 5 3.9D
NEIC IX 27 06 03 02.7 43.07N 12.69E 10 4.0b
EIDC IX 27 06 03 06.2 43.3N 13.3E 0 3.9L,3.9b
PDG IX 27 06 03 06.8 42.7N 13.0E 10 4.2L
STR IX 27 06 03 10.5 43.31N 12.12E 10 4.1L
NEIC M_L4.2(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 27 06 51 04.5±.64 43.04N±.042 13.06E±.091 10 29 0-7
NEIC IX 27 06 51 03.4 43.02N 13.15E 10 **¶97ix4277**
ROM IX 27 06 51 03.6 43.0N 12.9E 5 3.0D
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(383) Northwestern Balkan region

ISC IX 27 07 48 13±1.1 45.99N±.086 14.21E±.098 10 6 0-1
NEIC IX 27 07 48 12.0 45.97N 14.12E 10 **¶97ix4293**
LJU IX 27 07 48 12.9 45.99N 14.2E 9
NEIC M_L2.1(LJU), Poor solution.
NEIC Felt I=IV MM at Logatec and Petkovec, Slovenia.
LJU Felt I=III EMS in Breg pri Brezovici, Zibrse and Rovte, Slovenia

(381) Central Italy

ISC IX 27 08 08 07.5±.71 43.11N±.020 12.78E±.022 9±5.3 4.3b 192 0-128
ROM IX 27 08 08 06.9 43.1N 12.8E 7 4.3D **¶97ix4298**
EIDC IX 27 08 08 07.3 43.0N 13.0E 0 4.1b,4.4L
BJI IX 27 08 08 07.6 43.10N 12.70E 10 4.8b
NEIC IX 27 08 08 07.6 43.13N 12.77E 10 4.4b
LDG IX 27 08 08 10.0 43.1N 12.8E 4.3L
PDG IX 27 08 08 10.3 42.7N 12.9E 10 4.5L
STR IX 27 08 08 15.7 43.33N 12.15E 10 4.6L
NEIC M_L4.8(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 27 10 40 09±1.0 43.05N±.052 12.86E±.092 12±7.8 17 0-7
NEIC IX 27 10 40 05.5 43.07N 13.15E 10 **¶97ix4333**
LDG IX 27 10 40 06.9 42.9N 13.3E 3.3L
ROM IX 27 10 40 07.4 43.1N 12.9E 3 3.0D
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC IX 27 10 49 55.0±.76 43.04N±.042 12.91E±.082 15±9.5 29 0-8
NEIC IX 27 10 49 48.2 42.84N 13.44E 10 **¶97ix4338**
ROM IX 27 10 49 53.5 43.1N 13.0E 3 3.1D
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC IX 27 11 26 58.5±.88 43.11N±.037 12.81E±.067 11±7.0 32 0-8
ROM IX 27 11 26 57.6 43.1N 12.9E 3 3.1D **¶97ix4345**
LDG IX 27 11 26 57.6 43.0N 13.1E 3.4L
NEIC IX 27 11 26 57.7 43.11N 12.85E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC IX 27 13 23 47.4±.77 42.94N±.024 12.85E±.027 10±6.3 117 0-21
ROM IX 27 13 23 46.1 42.9N 13.0E 5 3.9D **¶97ix4363**
NEIC IX 27 13 23 47.5 42.94N 12.82E 10
LDG IX 27 13 23 48.4 42.9N 13.0E 3.8L
PDG IX 27 13 23 54.2 42.5N 13.4E 10 3.6L
STR IX 27 13 24 01.8 43.52N 11.69E 10 3.9L
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 27 13 35 05.1±.89 42.94N±.043 12.82E±.061 9±7.1 32 0-20
ROM IX 27 13 35 04.6 42.9N 12.7E 14 3.4D **¶97ix4364**
NEIC IX 27 13 35 05.5 42.91N 12.78E 10 3.7b
LDG IX 27 13 35 05.9 42.8N 13.0E 3.5L
NEIC M_L3.7(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC IX 27 17 13 03.3±.79 43.02N±.023 12.82E±.026 12±6.2 4.1b 138 0-71
ROM IX 27 17 13 02.1 43.0N 12.9E 5 4.0D **¶97ix4417**
NEIC IX 27 17 13 02.8 43.02N 12.83E 10 4.5b
LDG IX 27 17 13 04.1 42.9N 12.9E 3.8L
STR IX 27 17 13 05.1 42.99N 12.74E 10 4.3L
EIDC IX 27 17 13 08.5 43.4N 13.3E 0 4.0L,3.7b
PDG IX 27 17 13 10.3 42.7N 13.4E 10 3.8L
NEIC ML 4.3 (VIE). Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 27 19 56 43.2±.68 43.06N±.021 12.77E±.023 11±5.2 3.9b,3.7s 172 0-128
LDG IX 27 19 56 40.8 42.9N 13.2E 3.9L **¶97ix4442**
ROM IX 27 19 56 41.7 43.0N 12.9E 5 4.0D
NEIC IX 27 19 56 42.9 43.06N 12.77E 10 4.5b
STR IX 27 19 56 47.7 43.23N 12.54E 10 4.3L
EIDC IX 27 19 56 49.7 43.2N 13.0E 34 4.0L,3.8s
PDG IX 27 19 56 51.4 43.0N 13.5E 11 3.9L
NEIC ML 4.3 (VIE), 4.2 (FUR). Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 27 23 36 31.9±.48 42.97N±.036 12.85E±.070 6 29 0-7
ROM IX 27 23 36 30.5 43.0N 13.0E 6 2.6D **¶97ix4483**
NEIC IX 27 23 36 32.6 42.96N 12.83E 10
LDG IX 27 23 36 34.8 42.9N 12.9E 3.0L
NEIC Felt I=V MCS in the epicentral area.

(268) Sulawesi (Celebes)

ISC IX 28 01 38 28.8±.61 3.80S±.025 119.69E±.031 38±5.8 5.5b,5.4s 316 0-173
MOS IX 28 01 38 28.6 3.7S 119.7E 33 6.0b,5.2s **¶97ix4508**
BJI IX 28 01 38 28.6 3.69S 119.87E 33 5.8b,5.5s
NEIC IX 28 01 38 28.6 3.78S 119.73E 33 5.6b,5.5s
KLM IX 28 01 38 29 3.7S 119.7E 33 5.2L
EIDC IX 28 01 38 31.3 3.7S 119.8E 38 5.1b,6.1L
HRVD IX 28 01 38 34.2±.1 3.92S±.02 119.77E±.01 35±1.1
NEIC Mw5.9(GS), Me5.6(GS). Casualties.
NEIC Radiated energy from the P−wave first−motion solution: 6.2±1.2×10^{12}Nm/16
NEIC Mw 5.9 (HRV). At least 18 people killed, over 300 injured and 650 houses and buildings destroyed in the Parepare-Pinrang area. Felt I=IV MM at Majene and III MM at Ujungpandang.
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S0°,δ35°,λ90°. NP2:ϕ_S180°,δ55°,λ90°. Principal axes: T Plg80°,Azm90°; P Plg10°,Azm270°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s32, scale 10^{17}Nm; M_{rr}4.82; $M_{\theta\theta}$3.17; $M_{\phi\phi}$−8.02; $M_{r\theta}$1.30; $M_{r\phi}$−0.27; $M_{\theta\phi}$0.82. Depth 16km; Principal axes: T 5.54,Plg61°,Azm359°; N 2.55,Plg29°, Azm175°; P −8.09,Plg2°,Azm266°. Best double couple: $M_0$6.8×10^{17}Nm; NP1:ϕ_S22°,δ50°, λ129°. NP2:ϕ_S150°,δ53°,λ53°.
KLM Mb5.6
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c111; Mantle waves: s11,c16; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}6.05±.07; $M_{\theta\theta}$1.46±.09; $M_{\phi\phi}$−7.51±.11; $M_{r\theta}$1.18±.16; $M_{r\phi}$−1.50±.19; $M_{\theta\phi}$0.07±.09. Principal Axes: T 6.49,Plg76°,Azm24°; N 1.19,Plg13°,Azm177°; P −7.68,Plg6°,Azm269°. Best double couple: $M_0$7.1×10^{17}Nm, NP1:ϕ_S13°,δ40°,λ110°. NP2:ϕ_S167°,δ53°,λ74°.

(381) Central Italy

ISC IX 28 02 03 21.0±.81 43.16N±.041 12.68E±.073 10±7.5 31 0-8
ROM IX 28 02 03 20.7 43.2N 12.8E 5 2.9D **¶97ix4511**
LDG IX 28 02 03 20.7 43.0N 12.9E 2.8L
NEIC IX 28 02 03 28.2 43.42N 11.99E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC IX 28 02 18 34.1±.72 43.04N±.048 12.9E±.10 18±8.2 24 0-7
NEIC IX 28 02 18 31.0 43.05N 13.06E 10 **¶97ix4514**
LDG IX 28 02 18 31.8 42.9N 13.2E 3.0L
ROM IX 28 02 18 32.7 43.0N 12.9E 3 3.0D
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC IX 28 02 47 48.2±.84 43.12N±.035 12.77E±.057 11±6.6 41 0-8
NEIC IX 28 02 47 47.0 43.02N 12.81E 10 **¶97ix4517**
ROM IX 28 02 47 47.4 43.1N 12.8E 4 3.2D
LDG IX 28 02 47 48.8 43.0N 12.9E 3.1L
NEIC M_L3.7(VIE), Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 28 03 51 33.1±.74 43.06N±.024 12.77E±.032 12±5.7 3.6b 124 0-71
ROM IX 28 03 51 32.2 43.1N 12.9E 9 3.7D **¶97ix4532**
NEIC IX 28 03 51 33.1 43.08N 12.74E 10
LDG IX 28 03 51 33.2 43.0N 12.9E 3.7L
STR IX 28 03 51 35.1 43.06N 12.72E 10 4.2L
EIDC IX 28 03 51 38.2 43.7N 12.2E 0 3.7L,3.7b
NEIC M_L4.2(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC IX 28 04 43 39.5±.62 43.02N±.038 12.80E±.055 18±7.0 35 0-8
NEIC IX 28 04 43 38.0 42.99N 12.82E 10 **¶97ix4540**
ROM IX 28 04 43 38.8 43.0N 12.9E 8 3.1D
LDG IX 28 04 43 39.7 43.0N 13.0E 3.1L
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC IX 28 05 09 43±1.1 43.02N±.037 12.91E±.062 15±8.8 30 0-7
LDG IX 28 05 09 40.9 42.8N 13.2E 3.1L **¶97ix4546**
ROM IX 28 05 09 41.5 43.0N 13.0E 5 3.1D
NEIC IX 28 05 09 42.1 43.11N 12.92E 10
NEIC Felt I=IV MCS in the epicentral area.

(244) Taiwan

ISC IX 28 07 54 25.0±.36 24.60N±.031 121.86E±.061 80±3.6 3.9b 57 0-168
NEIC IX 28 07 54 21.7 24.53N 121.72E 50 4.4b **¶97ix4581**
BJI IX 28 07 54 23.4 24.62N 121.86E 52 4.3L,4.6b
TAP IX 28 07 54 26.2 24.61N 121.78E 69 5.0L
EIDC IX 28 07 54 30.0 24.7N 122.1E 106 3.6b
TAP Felt I=III J, II Ilan, Hwalien, Hsinchu, I Mucha, Santiao Chiao, Taipei, Kuangyinshan, Tachien

(381) Central Italy

ISC IX 28 07 56 07.6±.72 43.07N±.046 12.86E±.092 18±8.2 22 0-7
ROM IX 28 07 56 06.8 43.1N 12.9E 6 3.1D **¶97ix4582**
LDG IX 28 07 56 07.1 42.9N 13.1E 2.8L
NEIC IX 28 07 56 07.5 43.17N 12.80E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC IX 28 08 01 52.8±.80 42.90N±.038 12.87E±.082 8±7.7 27 0-7
ROM IX 28 08 01 52.2 42.9N 12.9E 5 3.0D **¶97ix4585**
NEIC IX 28 08 01 54.1 43.02N 12.77E 10
LDG IX 28 08 01 58.4 42.9N 12.6E 2.8L
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(381) Central Italy						
ISC	**IX 28 11 24 31.3**±.82	**42.96N**±.026	**12.81E**±.033	**8**±6.5	3.7b	**108**	**0-71**
ROM	IX 28 11 24 30.4	43.0N	12.9E	5	3.7D		**¶97ix4629**
STR	IX 28 11 24 31.3	42.93N	13.05E	10	4.2L		
LDG	IX 28 11 24 31.5	42.9N	13.0E		3.6L		
NEIC	IX 28 11 24 31.6	42.97N	12.79E	10			
EIDC	IX 28 11 24 33.0	43.0N	13.3E	0	3.9L,3.3s		
NEIC	M_L4.2(VIE)						
NEIC	Felt I=VI MCS in the epicentral area.						
	(43) Southern California						
ISC	**IX 28 15 57 22.2**±.64	**34.30N**±.027	**116.47W**±.028	**11**±5.7	**3.8b,**3.0s	**81**	**0-36**
NEIC	IX 28 15 57 22.9	34.30N	116.45W	8	4.0b		**¶97ix4692**
EIDC	IX 28 15 57 23.2	34.2N	116.6W	0	3.8L,3.8b		
NEIC	M_L4.7(BRK), M_L4.4(PAS). Felt, After PAS.						
NEIC	Felt in the Yucca Valley-Palm Springs area.						
	(381) Central Italy						
ISC	**IX 28 16 04 46.0**±.97	**43.05N**±.033	**12.82E**±.058	**15**±7.6		**42**	**0-8**
NEIC	IX 28 16 04 45.2	43.04N	12.82E	10			**¶97ix4695**
ROM	IX 28 16 04 46.7	43.1N	12.8E	6	3.6D		
NEIC	M_L3.6(VIE)						
NEIC	Felt I=IV MCS in the epicentral area.						
	(123) Northern Chile						
ISC	**IX 28 23 13 13.8**±.17	**22.44S**±.033	**68.42W**±.037	**107**±.4*	**5.6b**	**447**	**3-176**
BJI	IX 28 23 13 13.9	22.40S	68.50W	107			**¶97ix4785**
NEIC	IX 28 23 13 13.9	22.41S	68.45W	107	5.7b		
EIDC	IX 28 23 13 14.3	22.4S	68.4W	97	5.4b,4.4s		
MOS	IX 28 23 13 17.7	22.3S	68.5W	136	5.8b		
HRVD	IX 28 23 13 24.5±.3	22.22S±.04	68.31W±.04	146±1.5			
NEIC	Mw5.6(GS), Mw5.6(HRV)						
NEIC	Felt I=V MM at Calama and Chuquicamata, III MM at San Pedro de Atacama and II MM at Antofagasta.						
NEIC	Moment tensor solution: s23, scale 10^{17}Nm; M_{rr}−2.44; $M_{\theta\theta}$0.01; $M_{\phi\phi}$2.43; $M_{r\theta}$0.67; $M_{r\phi}$−0.46; $M_{\theta\phi}$−0.48. Depth 109km; Principal axes: T 2.59,Plg7°,Azm78°; N 0.04,Plg12°, Azm346°; P −2.64,Plg76°,Azm196°. Best double couple: $M_0$2.6×10^{17}Nm; NP1:ϕ_S181°,δ40°, λ−71°. NP2:ϕ_S337°,δ53°,λ−105°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c67; Mantle waves: s8,c8; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.15±.07; $M_{\theta\theta}$−0.20±.13; $M_{\phi\phi}$2.35±.13; $M_{r\theta}$0.41±.08; $M_{r\phi}$0.94±.09; $M_{\theta\phi}$−0.72±.12. Principal Axes: T 2.68,Plg10°,Azm257°; N −0.20,Plg16°,Azm350°; P −2.48,Plg71°,Azm137°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S328°,δ38°,λ−117°. NP2:ϕ_S181°,δ57°,λ−71°.						
	(159) North Island, New Zealand						
ISC	**IX 28 23 29 13.8**±.85	**39.10S**±.036	**175.38E**±.073	**8**±7.8		**26**	**0-4**
WEL	IX 28 23 29 14.5	39.10S	175.44E	5	4.6L		**¶97ix4790**
NEIC	IX 28 23 29 14.5	38.99S	175.44E	100			
WEL	Felt I=IV MM Manunui and Waihora Rd						
NEIC	Single network solution.						
NEIC	Felt near Mount Ruapehu.						
	(177) Kermadec Islands region						
ISC	**IX 29 06 46 25**±1.2	**28.78S**±.091	**177.74W**±.081	**79**±10	**4.6b**	**71**	**1-168**
EIDC	IX 29 06 46 18.5	28.6S	177.6W	16	4.6b		**¶97ix4891**
NEIC	IX 29 06 46 19.8	28.70S	177.67W	33	4.8b		
BJI	IX 29 06 46 21.2	28.19S	176.93W	43	5.0b		
WEL	Felt I=IV MM Raoul Felt Island						
	(381) Central Italy						
ISC	**IX 29 08 01 32.9**±.99	**43.04N**±.037	**12.83E**±.059	**15**±8.0		**31**	**0-7**
LDG	IX 29 08 01 31.0	42.9N	13.2E		3.3L		**¶97ix4904**
ROM	IX 29 08 01 31.2	43.0N	12.9E	2	3.3D		
NEIC	IX 29 08 01 33.1	43.10N	12.76E	10			
NEIC	M_L3.6(VIE)						
NEIC	MD 3.2 (ROM). Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 29 13 29 15.5**±.89	**43.03N**±.035	**12.81E**±.064	**10**±7.4		**30**	**0-8**
ROM	IX 29 13 29 14.4	43.0N	12.9E	4	3.3D		**¶97ix4956**
LDG	IX 29 13 29 14.5	42.8N	13.1E		3.3L		
NEIC	IX 29 13 29 15.6	43.10N	12.80E	10			
NEIC	Less reliable solution.						
NEIC	ML 3.1 (VIE). Felt I=IV MCS in the epicentral area.						
	(228) Near east coast of Honshū						
ISC	**IX 29 14 46 20.8**±.33	**35.68N**±.022	**140.87E**±.038	**57**±3.3	**4.4b,4.0s**	**178**	**0-148**
JMA	IX 29 14 46 21.6±.2	35.71N±.01	140.70E±.02	54±3	4.1		**¶97ix4967**
EIDC	IX 29 14 46 23.1	35.6N	140.6E	55	3.9b,4.0s		
BJI	IX 29 14 46 23.4	35.42N	140.28E	64	4.7b		
NEIC	IX 29 14 46 23.8	35.66N	140.48E	78	4.6b		
JMA	Felt I=III J1						
	(492) Virginia						
ISC	**IX 29 17 45 09**±1.2	**38.67N**±.087	**77.4W**±.19	**5**		**7**	**1-3**
NEIC	IX 29 17 45 09.5	38.70N	77.50W	5			**¶97ix4996**
NEIC	mbLg2.5(GS). Felt, After MACR.						
NEIC	Felt in the Manassas area.						
	(662) Sakhalin						
ISC	**IX 29 19 43 42**±1.3	**51.36N**±.060	**142.7E**±.45	**7**		**5**	**1-4**
SKHL	IX 29 19 43 41.3	51.41N±.05	142.76E±.11	7±1			**¶97ix5010**
SKHL	K7.9 Felt I=III MSK at Argi−Pagi, Chir−Unvd						
	(545) Northern Italy						
ISC	**IX 29 21 01 34.0**±.21	**46.77N**±.017	**12.15E**±.026	**5**	4.2b	**145**	**0-63**
ROM	IX 29 21 01 33.1	46.9N	12.4E	5	3.6D		**¶97ix5020**
NEIC	IX 29 21 01 34.1	46.74N	12.11E	5			
SZGRF	IX 29 21 01 35.5	46.8N	12.3E	10	3.8L		
LDG	IX 29 21 01 36.7	46.7N	12.2E		3.6L		
STR	IX 29 21 01 40.0	46.83N	11.80E	5	3.7L		
NEIC	M_L3.7(VIE)						
NEIC	ML 3.5 (CLL), 3.4 (UCC). Felt I=IV MSK at Sillian, Austria.						
	(662) Sakhalin						
SKHL	**IX 29 21 20 58.3**	**51.34N**±.01	**142.43E**±.09	**11**			**¶97ix5026**
SKHL	K7.3 Felt I=II−III MSK at Argi−Pagi, Chir−Unvd						
	(381) Central Italy						
ISC	**IX 29 22 51 46.2**±.73	**43.12N**±.032	**12.69E**±.046	**12**±6.0		**45**	**0-8**
ROM	IX 29 22 51 45.4	43.1N	12.8E	5	3.2D		**¶97ix5045**
NEIC	IX 29 22 51 45.5	43.08N	12.70E	10			
LDG	IX 29 22 51 46.1	43.0N	12.9E		3.3L		
NEIC	M_L3.4(VIE)						
NEIC	Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**IX 30 04 24 20.7**±.72	**43.08N**±.035	**12.66E**±.057	**11**±6.1		**38**	**0-8**
ROM	IX 30 04 24 19.8	43.1N	12.8E	4	3.2D		**¶97ix5123**
NEIC	IX 30 04 24 20.2	42.97N	12.67E	10			
NEIC	M_L3.5(VIE), Less reliable solution.						
NEIC	Felt I=IV MCS in the epicentral area.						
	(178) Kermadec Islands						
ISC	**IX 30 04 26 33.2**±.36	**30.08S**±.075	**177.78W**±.073	**51**±2.0*	**4.8b,4.1s**	**102**	**1-166**
NEIC	IX 30 04 26 30.7	30.06S	177.73W	33	4.9b		**¶97ix5125**
EIDC	IX 30 04 26 34.5	30.1S	177.7W	54	4.5b,4.1s		
WEL	Felt I=IV MM Raoul Island						
NEIC	Less reliable solution.						
	(381) Central Italy						
ISC	**IX 30 06 16 46.5**±.79	**43.04N**±.039	**12.68E**±.059	**10**±6.4		**31**	**0-7**
ROM	IX 30 06 16 45.7	43.1N	12.9E	4	3.1D		**¶97ix5143**
LDG	IX 30 06 16 47.2	42.9N	12.9E		3.3L		
NEIC	IX 30 06 16 48.1	43.14N	12.54E	10			
NEIC	M_L3.4(VIE), Less reliable solution.						
NEIC	Felt I=IV MCS in the epicentral area.						
	(122) Near coast of Northern Chile						
ISC	**IX 30 10 24 40**±1.5	**27.55S**±.078	**71.2W**±.13	**44**±15	**4.0b**	**31**	**5-148**
NEIC	IX 30 10 24 39.3	27.42S	71.09W	33			**¶97ix5200**
EIDC	IX 30 10 24 50.9	27.2S	70.8W	117	3.7b		
NEIC	Less reliable solution.						
NEIC	Felt I=III MM at Caldera and Copiapo; II MM at Tierra Amarilla.						
	(377) Spain						
ISC	**IX 30 15 12 55**±1.5	**42.8N**±.11	**7.2W**±.20	**18**±25		**6**	**0-3**
NEIC	IX 30 15 12 54.8	42.78N	7.21W	10			**¶97ix5256**
MDD	IX 30 15 12 55.7	42.77N	7.20W	9	3.0		
ISC	Poorly determined						
NEIC	mbLg3.0(MDD). Single network solution.						
MDD	Felt I=II at Sarria−Becerrea						
	(377) Spain						
ISC	**IX 30 15 13 21**±1.8	**42.79N**±.093	**7.2W**±.23	**10**		**4**	**0-1**
NEIC	IX 30 15 13 20.5	42.79N	7.17W	10			**¶97ix5257**
LIS	IX 30 15 13 21	42.27N	7.33W				
MDD	IX 30 15 13 21.3	42.79N	7.16W	9	2.7		
ISC	Poorly determined						
NEIC	mbLg2.5(MDD). Poor solution.						
MDD	Felt I=II at Sarria−Becerrea						
	(377) Spain						
ISC	**IX 30 15 13 59**±1.6	**42.8N**±.11	**7.1W**±.21	**20**±22		**6**	**0-3**
NEIC	IX 30 15 13 58.8	42.78N	7.16W	10			**¶97ix5259**
MDD	IX 30 15 14 00.0	42.78N	7.23W	9	2.9		
ISC	Poorly determined						
NEIC	mbLg2.9(MDD). Single network solution.						
MDD	Felt I=II at Sarria−Becerrea						
	(243) Taiwan region						
ISC	**IX 30 19 06 30.2**±.42	**22.55N**±.038	**121.44E**±.044	**37**±5.2	**4.0b**	**49**	**0-84**
BJI	IX 30 19 06 27.8	22.19N	121.46E	74	4.4b		**¶97ix5296**
TAP	IX 30 19 06 28.7	22.60N	121.45E	9	4.4L		
JMA	IX 30 19 06 32.6±.3	22.60N±.03	121.66E±.03	65	3.7		
NEIC	IX 30 19 06 33.4	22.48N	121.63E	74			
EIDC	IX 30 19 06 34.2	22.4N	121.7E	70	3.6b,4.5L		
TAP	Felt I=II J						
NEIC	Less reliable solution.						
	(224) Hokkaido region						
ISC	**IX 30 22 24 27.6**±.56	**42.16N**±.074	**142.28E**±.077	**45**±8.0	**3.9b**	**20**	**0-86**
SKHL	IX 30 22 24 27.0	42.0N±.09	142.2E±.10	35			**¶97ix5324**
JMA	IX 30 22 24 27.3±.0	42.13N±.00	142.30E±.01	35±2	4.0		
EIDC	IX 30 22 25 03.7	43.5N	142.4E	304	3.2b		
SKHL	K10						
JMA	Felt I=II J1						
	(163) Cook Strait, New Zealand						
ISC	**X 01 03 48 17.1**±.80	**41.73S**±.057	**174.21E**±.072	**14**±7.1		**27**	**0-5**
NEIC	X 01 03 48 15.8	41.71S	174.10E	10			**¶97x0019**
WEL	X 01 03 48 17.0	41.65S	174.18E	5	4.5L		
NEIC	Single network solution.						
NEIC	Felt at Blenheim on the South Island and Wellington on the North Island.						
WEL	Felt Wellington to Seddon, maximum intensity I=IV MM near Seddon.						
	(163) Cook Strait, New Zealand						
ISC	**X 01 03 54 42.6**±.52	**41.73S**±.056	**174.19E**±.076	**16**±7.5		**25**	**0-4**
NEIC	X 01 03 54 42.6	41.64S	174.17E	10			**¶97x0021**
WEL	X 01 03 54 42.9	41.64S	174.19E	5	4.4L		
NEIC	Single network solution.						
NEIC	Felt at Blenheim on the South Island and Wellington on the North Island.						
WEL	Felt Wellington to Seddon.						
	(381) Central Italy						
ISC	**X 01 04 54 08**±1.2	**43.07N**±.061	**12.8E**±.11	**14**±7.7		**17**	**0-7**
NEIC	X 01 04 54 06.3	43.05N	12.85E	10			**¶97x0030**
LDG	X 01 04 54 06.9	42.9N	13.0E		3.1L		
ROM	X 01 04 54 07.3	43.1N	12.8E	5	3.1D		
NEIC	Poor solution.						
NEIC	Felt I=III MCS in the epicentral area.						
	(381) Central Italy						
ISC	**X 01 06 13 26.1**±.86	**42.94N**±.032	**12.89E**±.055	**9**±7.1		**42**	**0-7**
STR	X 01 06 13 24.5	42.80N	13.30E	10	3.5L		**¶97x0038**
LDG	X 01 06 13 24.5	42.8N	13.3E		3.5L		
ROM	X 01 06 13 25.3	43.0N	12.9E	4	3.5D		
NEIC	X 01 06 13 26.9	43.03N	12.79E	10			
NEIC	M_L3.8(VIE)						
NEIC	Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**X 01 06 36 25.3**±.86	**42.94N**±.034	**12.90E**±.061	**10**±7.1		**37**	**0-7**
ROM	X 01 06 36 24.8	42.9N	12.9E	6	3.6D		**¶97x0042**
LDG	X 01 06 36 24.8	42.8N	13.1E		3.4L		
NEIC	X 01 06 36 27.4	43.12N	12.71E	10			
STR	X 01 06 36 36.7	43.29N	12.05E	10	3.2L		
NEIC	M_L3.6(VIE), Less reliable solution.						
NEIC	Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**X 01 07 05 41.8**±.94	**42.98N**±.032	**12.89E**±.050	**10**±7.1	3.3b	**53**	**0-71**
ROM	X 01 07 05 41.3	43.0N	12.9E	6	3.5D		**¶97x0046**
LDG	X 01 07 05 42.5	42.9N	13.1E		3.3L		
NEIC	X 01 07 05 43.0	43.09N	12.80E	10			
EIDC	X 01 07 05 43.9	43.1N	13.3E	0	3.8L,3.7b		
NEIC	M_L3.6(VIE)						
NEIC	MD 3.2 (ROM) Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**X 01 13 13 26.0**±.84	**43.07N**±.063	**12.7E**±.10	**26**±13		**12**	**1-7**
ROM	X 01 13 13 25.1	43.1N	12.8E	10	3.0D		**¶97x0090**
NEIC	X 01 13 13 26.8	43.30N	12.50E	10			
NEIC	Less reliable solution.						
NEIC	Felt I=III MCS in the epicentral area.						
	(224) Hokkaido region						
ISC	**X 01 17 21 14.0**±.60	**42.38N**±.070	**142.49E**±.082	**38**±11	**3.5b**	**14**	**0-64**
EIDC	X 01 17 21 10.9	42.3N	143.1E	0	3.4b,3.5L		**¶97x0126**
JMA	X 01 17 21 13.7±.0	42.38N±.00	142.44E±.00	30±1	3.6		

NEIC X 01 17 21 13.7 42.14N 143.03E 33
JMA Felt I=II J1
NEIC Single network solution.

(381) Central Italy

ISC X 01 18 07 08.8±.81 **43.02N**±.034 **12.86E**±.064 **7**±7.3 **27 0-7**
LDG X 01 18 07 07.3 42.8N 13.2E 3.2L **¶97x0131**
ROM X 01 18 07 08.4 43.0N 12.9E 5 3.0D
NEIC X 01 18 07 09.6 43.04N 12.75E 10
NEIC M_L3.1(VIE), Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.

(381) Central Italy

ISC X 01 18 27 10.9±.80 **42.89N**±.031 **12.86E**±.066 **7**±7.1 **40 0-7**
ROM X 01 18 27 10.0 42.9N 12.9E 4 3.2D **¶97x0134**
NEIC X 01 18 27 11.1 42.90N 12.88E 10
LDG X 01 18 27 11.6 42.8N 13.0E 3.3L
NEIC $M_{L3.6}$(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(244) Taiwan

ISC X 01 18 31 44±1.3 **24.46N**±.069 **121.8E**±.16 **19** **9 0-1**
TAP X 01 18 31 42.8 24.43N 121.81E 19 2.8L **¶97x0136**
TAP Felt I=II J

(381) Central Italy

ISC X 01 20 05 20.3±.47 **43.06N**±.039 **12.86E**±.058 **10** **42 0-7**
NEIC X 01 20 05 19.1 42.94N 12.87E 10 **¶97x0148**
LDG X 01 20 05 20.3 42.9N 13.0E 3.1L
ROM X 01 20 05 21.0 43.1N 12.8E 17 3.1D
NEIC $M_{L3.4}$(VIE)
NEIC Felt I=III MCS in the epicentral area.

(381) Central Italy

ISC X 01 21 08 47.2±.83 **43.06N**±.033 **12.79E**±.056 **11**±6.6 **39 0-7**
LDG X 01 21 08 45.8 42.9N 13.1E 3.1L **¶97x0151**
ROM X 01 21 08 46.2 43.1N 12.9E 5 3.4D
NEIC X 01 21 08 47.7 43.10N 12.71E 10
NEIC M_L3.6(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 01 22 07 46.4±.80 **43.03N**±.037 **12.86E**±.066 **8**±7.0 **26 0-7**
NEIC X 01 22 07 44.5 42.85N 12.95E 10 **¶97x0164**
ROM X 01 22 07 45.7 43.0N 12.9E 2 3.4D
NEIC M_L3.0(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 02 03 39 20.2±.84 **43.02N**±.035 **12.82E**±.062 **8**±6.9 **36 0-7**
LDG X 02 03 39 18.4 42.8N 13.2E 2.9L **¶97x0197**
ROM X 02 03 39 19.1 43.0N 12.9E 2 3.1D
NEIC X 02 03 39 20.1 43.03N 12.84E 10
NEIC $M_{L3.0}$(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(244) Taiwan

ISC X 02 03 54 05±2.3 **24.64N**±.068 **121.9E**±.30 **15**±10 **7 0-1**
TAP X 02 03 54 04.7 24.64N 121.82E 12 2.6L **¶97x0198**
TAP Felt I=II J

(381) Central Italy

ISC X 02 05 35 48.4±.92 **42.94N**±.030 **12.87E**±.048 **1**±8.1 **51 0-7**
ROM X 02 05 35 47.6 42.9N 13.0E 5 3.6D **¶97x0216**
LDG X 02 05 35 47.8 42.8N 13.3E 3.4L
NEIC X 02 05 35 50.0 42.91N 12.79E 10
NEIC $M_{L3.7}$(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC X 02 06 58 31±1.0 **43.00N**±.036 **12.82E**±.071 **14**±8.2 **28 0-7**
LDG X 02 06 58 27.8 42.8N 13.2E 3.2L **¶97x0228**
ROM X 02 06 58 29.4 43.0N 12.9E 5 3.5D
NEIC X 02 06 58 30.4 43.03N 12.76E 10
NEIC M_L3.4(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 02 07 29 20±1.1 **43.02N**±.043 **12.80E**±.088 **13**±8.4 **18 0-7**
ROM X 02 07 29 18.6 43.0N 12.9E 5 3.3D **¶97x0232**
LDG X 02 07 29 19.6 42.9N 13.0E 3.1L
NEIC X 02 07 29 21.0 43.12N 12.65E 10
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 02 10 31 04±1.2 **42.93N**±.045 **12.9E**±.10 **13**±10 **18 0-7**
ROM X 02 10 31 02.7 42.9N 13.0E 5 3.2D **¶97x0261**
LDG X 02 10 31 04.5 42.8N 12.9E 3.2L
NEIC X 02 10 31 05.9 43.04N 12.58E 10
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 02 10 59 55.5±.66 **43.07N**±.021 **12.74E**±.021 **6**±5.1 **4.2b**,3.6s **204 0-117**
ROM X 02 10 59 55.4 43.1N 12.8E 10 4.0D **¶97x0265**
EIDC X 02 10 59 55.8 42.9N 12.9E 0 4.1b,4.0L
NEIC X 02 10 59 56.2 43.08N 12.70E 10 4.4b
LDG X 02 10 59 57.3 43.0N 12.8E 4.0L
PDG X 02 11 00 04.1 43.0N 13.4E 20 4.1L
STR X 02 11 00 06.2 43.48N 12.00E 10 4.3L
NEIC $M_{L4.4}$(VIE)
NEIC ML 4.1 (FUR). Felt I=VI MCS in the Sansepolcro area. Felt as far as Florence.

(226) Near west coast of Honshū

ISC X 02 12 06 38.7±.64 **37.76N**±.049 **138.81E**±.079 **24**±7.0 **3.8b** **26 0-73**
EIDC X 02 12 06 38.3 39.7N 143.3E 0 3.8b,4.3L **¶97x0277**
JMA X 02 12 06 39.0±.0 37.75N±.00 138.83E±.01 20±1 3.9
BJI X 02 12 06 39.6 39.64N 143.00E 15 4.2b,3.8s
NEIC X 02 12 06 41.1 39.68N 143.30E 33
JMA Felt I=II J1
JMA Nodal plane solution: N51, Score 98%. NP1:ϕ_S56°,δ34°,λ107°. NP2:ϕ_S217°,δ58°,λ80°. Principle axes: T Plg75°,Azm98°; N Plg9°,Azm223°; P Plg12°,Azm315°.
NEIC Single network solution.

(218) Near east coast of Kamchatka

ISC X 02 14 29 04.2±.73 **54.01N**±.053 **161.2E**±.11 **53**±6.9 **4.1b** **45 1-144**
EIDC X 02 14 28 58.9 54.0N 161.3E 0 4.1b,4.6L **¶97x0296**
NEIC X 02 14 29 02.0 54.12N 161.24E 33 4.3b
MOS X 02 14 29 02.6 54.1N 161.2E 33 4.5b
KRSC X 02 14 29 04.4 53.98N 161.14E 28 4.5b
KRSC Felt I=III−IV MSK, Kronoki

(162) South Island, New Zealand

ISC X 02 17 38 31.0±.58 **43.54S**±.064 **170.18E**±.086 **6** **17 0-6**
WEL X 02 17 38 32.5 43.59S 170.21E 6 4.1L **¶97x0321**
WEL Felt I=IV MM Mahitahi

(244) Taiwan

ISC X 02 20 47 47.2±.63 **23.46N**±.031 **120.70E**±.032 **9**±5.1 **3.8b** **50 0-59**
TAP X 02 20 47 45.8 23.45N 120.70E 3 4.4L **¶97x0343**
JMA X 02 20 47 46.9±.4 23.31N±.07 120.56E±.03 78 3.9
NEIC X 02 20 47 48.2 23.30N 120.92E 33 3.5b
EIDC X 02 20 47 52.2 23.4N 120.9E 50 3.5b,4.2L
BJI X 02 20 47 55.9 24.01N 120.16E 22 4.2L,4.4b
TAP Felt I=III J Alishan, Chiayi
NEIC Less reliable solution.
BJI Ms4.0

(405) Azores

ISC X 03 04 32 04.8±.59 **38.18N**±.064 **27.10W**±.061 **0** **19 0-2**
ADH X 03 04 32 09.1 38.41N 27.05W 3.8D **¶97x0386**
ADH Felt on Terceira, I=III MM at Angra do Heroismo, Ribeirinha, Terra Cha, Feteira, Porto Judeu, Sao Sebastiao, Sao Mateus, Sao Bartolomeu, Cinco Ribeiras, Santa Barbara, Doze Ribeiras, Serreta, Altares and Agualva

(224) Hokkaido region

ISC X 03 04 46 33.8±.52 **42.50N**±.038 **144.70E**±.042 **47**±3.8 **5.1b,4.6s** **245 0-151**
BJI X 03 04 46 31.6 42.59N 144.69E 32 5.2b,4.5s **¶97x0390**
NEIC X 03 04 46 32.0 42.51N 144.66E 33 5.1b,4.6s
MOS X 03 04 46 32.1 42.5N 144.7E 33 5.5b,4.6s
SKHL X 03 04 46 33.0 42.4N±.07 144.9E±.19 65±4
JMA X 03 04 46 33.6±.2 42.51N±.01 144.82E±.02 50±3 4.9
HRVD X 03 04 46 33.7±1.2 42.34N±.14 145.28E±.18 15
EIDC X 03 04 46 38.6 42.5N 144.6E 76 4.5b
NEIC Mw5.2(HRV)
NEIC Felt I=III J1 in southeastern Hokkaido.
JMA Nodal plane solution: N71, Score 93%. NP1:ϕ_S267°,δ21°,λ139°. NP2:ϕ_S37°,δ76°,λ74°. Principle axes: T Plg56°,Azm286°; N Plg16°,Azm41°; P Plg29°,Azm140°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c22; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.35±.66; $M_{\theta\theta}$0.03±.54; $M_{\phi\phi}$−3.38±.68; $M_{r\theta}$2.34±1.78; $M_{r\phi}$5.19±1.75; $M_{\theta\phi}$−3.14±.76. Principal Axes: T 6.23,Plg63°,Azm284°; N 1.83,Plg6°,Azm26°; P −8.07,Plg26°,Azm119°. Best double couple: $M_0$7.2×10^{16}Nm, NP1: ϕ_S223°,δ19°,λ108°. NP2:ϕ_S24°,δ72°,λ84°.

(405) Azores

ISC X 03 05 18 36.7±.66 **38.16N**±.066 **27.12W**±.063 **0** **18 1-2**
ADH X 03 05 18 41.1 38.37N 27.07W 3.4D **¶97x0398**
ADH Felt on Terceira, I=III MM at Sao Sebastiao, II−III at Angra do Heroismo, Ribeirinha, Terra Cha, Feteira, Porto Judeu, Sao Mateus, Sao Bartolomeu, Cinco Ribeiras, Santa Barbara and Agualva, II at Doze Ribeiras, Serreta and Altares

(381) Central Italy

ISC X 03 06 35 03.0±.78 **43.04N**±.032 **12.72E**±.055 **10**±6.3 **44 0-8**
LDG X 03 06 35 00.5 42.9N 13.2E 3.3L **¶97x0409**
ROM X 03 06 35 01.3 43.0N 12.9E 6 3.4D
NEIC X 03 06 35 03.0 43.03N 12.70E 10
NEIC $M_{L3.6}$(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 03 08 55 20.7±.52 **43.07N**±.014 **12.81E**±.015 **2**±3.7 **5.1b,5.0s** **470 0-150**
LEDBW X 03 08 55 19.3 42.37N 13.47E 10 5.1L **¶97x0431**
ROM X 03 08 55 20.6 43.0N 12.9E 5 4.7D
LDG X 03 08 55 21.1 42.9N 13.0E 4.9L
BJI X 03 08 55 21.1 43.21N 12.91E 4 5.3b,5.4s
MOS X 03 08 55 21.4 43.1N 12.8E 10 5.7b,5.0s
NEIC X 03 08 55 21.5 43.08N 12.79E 10 5.1b,4.9s
EIDC X 03 08 55 22.5 43.1N 12.9E 0 4.8b,5.0s
HRVD X 03 08 55 25.9±.4 43.01N±.05 12.66E±.07 15
STR X 03 08 55 28.9 43.34N 12.37E 10 5.2L
PDG X 03 08 55 30.8 42.6N 13.6E 15 4.9L,5.1D
NEIC M_L5.5(VIE), Mw5.3(HRV)
NEIC ML 5.4 (FUR). About 20 people injured and additional damage I=VII MCS in the Marche and Umbria regions. Additional damage to the Basilica of St. Francis at Assisi. Felt at Rome.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c47; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−8.55±.62; $M_{\theta\theta}$6.86±.56; $M_{\phi\phi}$1.69±.64; $M_{r\theta}$0.20±1.76; $M_{r\phi}$−3.42±1.55; $M_{\theta\phi}$−4.90±.66. Principal Axes: T 10.0,Plg6°,Azm33°; N −0.3, Plg19°,Azm125°; P −9.7,Plg70°,Azm285°. Best double couple: $M_0$9.9×10^{16}Nm, NP1: ϕ_S103°,δ42°,λ−118°. NP2:ϕ_S319°,δ54°,λ−67°.

(405) Azores

ISC X 03 08 58 32.0±.55 **38.20N**±.062 **27.09W**±.056 **0** **19 0-2**
ADH X 03 08 58 36.3 38.40N 27.06W 3.7D **¶97x0432**
ADH Felt on Terceira, I=III MM at Angra do Heroismo, Ribeirinha, Terra Cha, Porto Judeu and Sao Sebastiao, II−III at Feteira, Sao Mateus, Sao Bartolomeu, Cinco Ribeiras, Santa Barbara, Doze Ribeiras, Serreta, Altares and Agualva

(381) Central Italy

ISC X 03 10 09 42.0±.85 **43.02N**±.034 **12.85E**±.062 **8**±7.1 **36 0-7**
ROM X 03 10 09 41.3 43.0N 12.9E 7 3.4D **¶97x0446**
NEIC X 03 10 09 42.2 42.99N 12.82E 10
LDG X 03 10 09 42.7 42.9N 13.0E 3.2L
NEIC M_L3.6(VIE), Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC X 03 11 08 16.9±.89 **42.99N**±.034 **12.79E**±.060 **11**±7.2 **42 0-7**
ROM X 03 11 08 16.4 43.0N 12.9E 10 3.4D **¶97x0450**
LDG X 03 11 08 16.9 42.9N 13.0E 3.2L
NEIC X 03 11 08 18.1 43.01N 12.64E 10
NEIC $M_{L3.8}$(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC X 03 11 17 36±1.2 **42.89N**±.036 **12.86E**±.070 **12**±9.6 **30 0-7**
ROM X 03 11 17 35.0 42.9N 12.9E 5 3.3D **¶97x0453**
LDG X 03 11 17 37.3 42.9N 13.0E 3.0L
NEIC X 03 11 17 38.2 43.01N 12.64E 10
NEIC M_L3.4(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(353) Southern Iran

ISC X 03 11 28 42.3±.66 **27.80N**±.033 **54.69E**±.022 **48**±6.2 **5.1b,4.8s** **370 4-134**
BJI X 03 11 28 35.0 27.77N 53.93E 33 5.0b,5.0s **¶97x0454**
EIDC X 03 11 28 37.4 27.8N 54.7E 0 5.0b,4.6s
RYD X 03 11 28 39.1 27.73N 55.14E 40 4.4D
NEIC X 03 11 28 40.5 27.81N 54.73E 33 5.2b,4.8s
MOS X 03 11 28 40.7 27.8N 54.7E 33 5.6b,4.8s
HRVD X 03 11 28 47.5±1.1 27.49N±.11 54.84E±.09 15
NEIC Mw5.3(HRV). Casualties.
NEIC Six people injured and several houses damaged in the epicentral area.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c28; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.80±.55; $M_{\theta\theta}$−5.04±.53; $M_{\phi\phi}$2.25±.66; $M_{r\theta}$−6.49±2.17; $M_{r\phi}$−5.93±1.27; $M_{\theta\phi}$3.54±.60. Principal Axes: T 11.6,Plg44°,Azm124°; N −2.9,Plg32°,Azm251°; P −8.7,Plg29°,Azm1°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S142°,δ33°,λ164°. NP2:ϕ_S246°,δ81°,λ58°.

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
		(381) Central Italy						
ISC	**X**	**03 12 16 24.7**±.78	**43.07N**±.043	**12.70E**±.075	**9**±6.4		**25**	**0-7**
NEIC	X	03 12 16 21.1	42.96N	13.02E	10			**¶97x0460**
LDG	X	03 12 16 21.3	42.8N	13.2E		3.2L		
ROM	X	03 12 16 23.8	43.1N	12.8E	5	3.3D		
NEIC		Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**03 12 48 44.9**±.79	**43.08N**±.034	**12.74E**±.060	**10**±6.3		**45**	**0-8**
LDG	X	03 12 48 43.8	42.9N	13.0E		3.3L		**¶97x0465**
ROM	X	03 12 48 44.0	43.1N	12.8E	5	3.5D		
NEIC	X	03 12 48 44.9	43.09N	12.72E	10			
NEIC		ML3.8(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(710) Pakistan						
ISC	**X**	**03 13 14 00**±1.4	**29.95N**±.059	**67.91E**±.050	**22**±11	**4.2b**,3.9s	**51**	**1-88**
EIDC	X	03 13 13 58.0	30.0N	67.9E	0	4.2b		**¶97x0469**
NEIC	X	03 13 13 58.5	29.96N	68.00E	17	4.4b		
BJI	X	03 13 14 00.2	30.09N	68.38E	5	4.6b,4.5s		
NEIC		Felt at Harnai.						
		(381) Central Italy						
ISC	**X**	**03 14 03 45.1**±.69	**43.05N**±.050	**12.79E**±.095	**18**±8.0		**20**	**0-7**
LDG	X	03 14 03 43.8	42.9N	13.1E		3.1L		**¶97x0474**
ROM	X	03 14 03 44.4	43.0N	12.8E	6	3.2D		
NEIC	X	03 14 03 45.0	43.18N	12.72E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**03 17 07 43.8**±.85	**43.03N**±.052	**12.79E**±.077	**15**±8.6		**24**	**0-7**
ROM	X	03 17 07 42.4	43.0N	12.9E	8	3.4D		**¶97x0495**
LDG	X	03 17 07 43.1	42.9N	13.0E		3.1L		
NEIC	X	03 17 07 46.0	43.17N	12.51E	10			
NEIC		ML3.4(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**03 21 18 33.2**±.67	**42.94N**±.041	**12.83E**±.072	**15**±8.7		**26**	**0-7**
NEIC	X	03 21 18 29.6	42.84N	13.06E	10			**¶97x0526**
ROM	X	03 21 18 32.0	43.0N	13.0E	5	3.2D		
LDG	X	03 21 18 33.6	42.9N	13.0E		3.0L		
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(7) Andreanof Islands						
ISC	**X**	**03 22 05 40.7**±.85	**51.86N**±.046	**175.37W**±.036	**57**±7.5	**5.1b,4.5s**	**243**	**1-154**
MOS	X	03 22 05 39.6	51.7N	175.4W	54	5.2b,4.4s		**¶97x0531**
HRVD	X	03 22 05 40.4±.5	51.59N±.04	175.04W±.08	56±3.6			
BJI	X	03 22 05 40.4	52.12N	175.54W	53	5.4b,4.8s		
NEIC	X	03 22 05 41.2	51.84N	175.37W	62	5.1b		
EIDC	X	03 22 05 41.3	51.9N	175.5W	45	4.7b,4.3s		
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c53; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.88±.25; $M_{\theta\theta}$−4.91±.30; $M_{\phi\phi}$0.04±.30; $M_{r\theta}$2.53±.43; $M_{r\phi}$1.92±.54; $M_{\theta\phi}$−2.26±.46. Principal Axes: T 5.84,Plg72°,Azm305°; N 0.78, Plg9°,Azm65°; P −6.61,Plg15°,Azm157°. Best double couple: $M_0$6.2×10^{16}Nm, NP1:ϕ_S260°, δ31°,λ108°. NP2:ϕ_S59°,δ61°,λ80°.						
NEIC		Mw5.2(HRV), ML5.2(PMR)						
NEIC		Felt I=IV MM on Adak.						
		(381) Central Italy						
ISC	**X**	**04 00 41 28.0**±.94	**42.98N**±.032	**12.78E**±.047	**13**±7.3	3.6b	**66**	**0-71**
NEIC	X	04 00 41 26.2	42.87N	12.83E	10			**¶97x0552**
ROM	X	04 00 41 26.9	43.0N	12.9E	3	3.5D		
LDG	X	04 00 41 27.8	42.9N	13.0E		3.3L		
EIDC	X	04 00 41 29.9	43.2N	13.5E	0	3.8L,3.5b		
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**04 00 47 42.5**±.84	**42.93N**±.028	**12.91E**±.031	**10**±6.7	4.1b	**99**	**0-71**
ROM	X	04 00 47 41.6	42.9N	13.0E	5	3.7D		**¶97x0553**
NEIC	X	04 00 47 42.3	42.95N	12.90E	10			
LDG	X	04 00 47 44.1	42.9N	13.0E		3.4L		
STR	X	04 00 47 50.0	43.18N	12.51E	10	3.7L		
EIDC	X	04 00 47 51.1	43.5N	13.5E	0	3.8L,3.4b		
NEIC		ML4.1(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**04 06 04 29.0**±.79	**42.93N**±.025	**12.86E**±.025	**3**±6.4	**3.9b**	**135**	**0-75**
STR	X	04 06 04 27.7	42.79N	13.14E	6	4.1L		**¶97x0591**
LDG	X	04 06 04 27.9	42.8N	13.3E		3.8L		
ROM	X	04 06 04 28.4	42.9N	13.0E	5	3.9D		
NEIC	X	04 06 04 30.0	42.97N	12.88E	10			
EIDC	X	04 06 04 32.6	43.0N	13.4E	0	4.0L,3.8b		
PDG	X	04 06 04 38.1	42.5N	13.6E	15	3.8L		
NEIC		ML4.4(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(244) Taiwan						
ISC	**X**	**04 06 25 14.0**±.98	**23.89N**±.056	**120.69E**±.076	**14**±11		**10**	**0-1**
TAP	X	04 06 25 13.6	23.88N	120.72E	12	2.8L		**¶97x0595**
TAP		Felt I=III J						
		(381) Central Italy						
ISC	**X**	**04 06 49 58.5**±.74	**42.91N**±.022	**12.92E**±.022	**4**±5.8	**3.9b,3.8s**	**182**	**0-81**
ROM	X	04 06 49 58.0	42.9N	12.9E	5	4.1D		**¶97x0600**
MOS	X	04 06 49 59.1	42.9N	13.0E	10	4.7b		
NEIC	X	04 06 49 59.1	42.90N	12.90E	10	4.5b		
EIDC	X	04 06 49 59.2	42.8N	13.3E	0	3.9b,3.9s		
LDG	X	04 06 49 59.4	42.8N	13.1E		4.1L		
STR	X	04 06 50 02.2	43.02N	12.79E	6	4.3L		
NEIC		ML4.6(VIE)						
NEIC		Felt I=VI MCS in the epicentral area.						
		(34) Off coast of Northern California						
ISC	**X**	**04 10 57 34.2**±.30	**41.10N**±.019	**125.20W**±.040	**7**	**4.9b,5.1s**	**263**	**1-154**
NEIC	X	04 10 57 34.0	41.05N	125.36W	7	5.0b,5.2s		**¶97x0631**
EIDC	X	04 10 57 35.6	41.2N	125.1W	0	4.5b,5.1s		
BJI	X	04 10 57 35.9	40.13N	126.03W	34	4.9b,5.6s		
HRVD	X	04 10 57 38.6±.2	40.96N±.02	125.33W±.03	15			
NEIC		Mw5.6(HRV), MD5.1(GM). Felt, After GM−P.						
NEIC		Mw 5.5 (BRK). ML 5.1 (BRK). A few items knocked from shelves at Eureka and Patrick's Point. Also felt at Arcata, Fields Landing, Fortuna, McKinleyville and Trinidad. Felt from Crescent City to Weott.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c83; Mantle waves: s7,c8; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.15±.04; $M_{\theta\theta}$−2.74±.04; $M_{\phi\phi}$2.59±.05; $M_{r\theta}$0.31±.15; $M_{r\phi}$0.67±.14; $M_{\theta\phi}$0.29±.05. Principal Axes: T 2.79,Plg15°,Azm274°; N −0.01,Plg74°,Azm72°; P −2.78,Plg6°,Azm182°. Best double couple: $M_0$2.8×10^{17}Nm, NP1:ϕ_S317°,δ76°,λ173°. NP2:ϕ_S49°,δ84°,λ14°.						
		(381) Central Italy						
ISC	**X**	**04 11 19 58.2**±.69	**42.98N**±.043	**12.86E**±.082	**17**±8.3		**21**	**0-7**
ROM	X	04 11 19 57.1	43.0N	12.9E	5	3.2D		**¶97x0635**
NEIC	X	04 11 20 00.6	43.24N	12.58E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**04 12 43 12**±1.2	**42.92N**±.037	**12.90E**±.069	**13**±9.3		**30**	**0-7**
ROM	X	04 12 43 11.0	42.9N	12.9E	5	3.4D		**¶97x0646**
LDG	X	04 12 43 12.2	42.9N	13.1E		3.3L		
NEIC	X	04 12 43 13.1	43.11N	12.78E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**04 15 07 20.4**±.74	**42.94N**±.021	**12.87E**±.021	**6**±5.9	**3.9b,**3.4s	**196**	**0-84**
ROM	X	04 15 07 19.4	42.9N	13.0E	4	4.1D		**¶97x0668**
NEIC	X	04 15 07 20.7	42.93N	12.86E	10			
LDG	X	04 15 07 21.0	42.8N	13.1E		4.0L		
PDG	X	04 15 07 22.4	42.7N	12.8E	20	4.2L		
MOS	X	04 15 07 23.0	43.2N	13.0E	10	4.6b		
EIDC	X	04 15 07 24.2	43.2N	13.0E	0	4.0L,3.9b		
STR	X	04 15 07 26.5	43.14N	12.51E	10	4.4L		
NEIC		ML4.6(VIE)						
NEIC		Felt I=VI MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**04 16 13 31.6**±.68	**42.96N**±.019	**12.88E**±.020	**1**±5.1	**4.5b,4.8s**	**231**	**0-128**
LDG	X	04 16 13 31.2	42.8N	13.2E		4.3L		**¶97x0682**
ROM	X	04 16 13 31.4	42.9N	13.0E	4	4.3D		
NEIC	X	04 16 13 32.8	42.96N	12.83E	10	4.2b		
PDG	X	04 16 13 35.2	42.3N	13.1E	15	4.6L,4.5D		
BJI	X	04 16 13 35.5	43.81N	13.32E	5	4.8b,5.0s		
STR	X	04 16 13 39.5	43.19N	12.44E	10	4.6L		
EIDC	X	04 16 13 39.7	43.0N	12.9E	41	4.0b,4.4L		
NEIC		ML4.7(FUR)						
NEIC		Felt I=VI MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**04 16 18 34**±1.3	**42.93N**±.054	**12.9E**±.11	**12**±10		**18**	**0-7**
NEIC	X	04 16 18 30.6	42.80N	13.15E	10			**¶97x0684**
ROM	X	04 16 18 33.3	42.9N	12.9E	5	3.3D		
LDG	X	04 16 18 34.7	42.8N	13.0E		3.1L		
NEIC		Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**04 18 47 47.4**±.74	**42.93N**±.021	**12.90E**±.022	**10**±5.7	**4.2b,**3.7s	**190**	**0-75**
ROM	X	04 18 47 46.6	42.9N	13.0E	5	4.3D		**¶97x0705**
LDG	X	04 18 47 46.9	43.0N	13.3E		3.9L		
NEIC	X	04 18 47 47.3	42.93N	12.90E	10			
EIDC	X	04 18 47 48.4	42.9N	13.2E	0	4.0b,4.2L		
PDG	X	04 18 47 49.5	42.5N	13.0E	15	4.1L		
STR	X	04 18 47 53.9	43.14N	12.47E	10	4.3L		
NEIC		ML4.5(VIE)						
NEIC		Felt I=VI MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**04 19 12 37.5**±.65	**43.05N**±.038	**12.81E**±.066	**17**±7.4		**33**	**0-8**
ROM	X	04 19 12 36.2	43.1N	12.9E	5	3.5D		**¶97x0709**
NEIC	X	04 19 12 37.1	43.13N	12.78E	10			
LDG	X	04 19 12 39.8	43.0N	12.7E		2.9L		
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(238) Ryūkyū Islands						
ISC	**X**	**04 20 25 15.6**±.67	**28.13N**±.041	**130.31E**±.063	**36**±6.5	**4.2b,4.1s**	**46**	**0-85**
JMA	X	04 20 25 14.5±.2	28.10N±.01	130.42E±.02	39±3	4.2		**¶97x0721**
BJI	X	04 20 25 14.8	27.88N	130.48E	53	4.3b,4.4s		
NEIC	X	04 20 25 15.5	28.17N	130.32E	33	4.3b		
EIDC	X	04 20 25 20.1	28.2N	130.3E	55	3.9b,3.8L		
JMA		Felt I=II J1						
		(163) Cook Strait, New Zealand						
ISC	**X**	**05 05 04 50.4**±.54	**41.75S**±.057	**174.20E**±.078	**17**±6.5	**3.7b**	**30**	**0-148**
NEIC	X	05 05 04 49.1	41.70S	174.08E	10			**¶97x0800**
WEL	X	05 05 04 50.8	41.65S	174.19E	5	4.7L		
EIDC	X	05 05 04 51.2	40.9S	174.2E	0	3.8b		
NEIC		Felt I=II MM Raoul Island (after TUZ)						
WEL		Felt I=IV MM Wellington to Seddon						
		(163) Cook Strait, New Zealand						
ISC	**X**	**05 05 10 28.4**±.86	**41.67S**±.063	**174.20E**±.084	**12**±8.7		**16**	**0-3**
WEL	X	05 05 10 28.4	41.63S	174.20E	5	3.8L		**¶97x0804**
WEL		Felt Blind River district. There were numerous small shakes felt during the previous hour and a half.						
		(383) Northwestern Balkan region						
ISC	**X**	**05 05 54 16.2**±.55	**46.21N**±.049	**14.53E**±.058	**24**±8.1		**35**	**0-7**
LJU	X	05 05 54 14.7	46.3N	14.6E	22			**¶97x0811**
NEIC	X	05 05 54 15.0	46.25N	14.49E	10			
LDG	X	05 05 54 15.4	46.3N	14.7E		3.0L		
ROM	X	05 05 54 16.0	46.5N	14.5E	5	3.2D		
LJU		Felt I=IV EMS in Smartno, Kamnik, Spodnje Stranje, Lukovica, Logarska Dolina, Ceska koca and Zgornje Jezersko, Slovenia.						
NEIC		ML3.0(LJU)						
NEIC		ML 2.9 (VIE). Felt I=IV MSK at Kamnik and Predvor and III MSK at Ljubljana, Slovenia.						
		(381) Central Italy						
ISC	**X**	**05 06 50 05.6**±.66	**42.90N**±.043	**12.86E**±.089	**18**±9.4		**25**	**0-7**
ROM	X	05 06 50 03.8	42.9N	13.0E	5	3.4D		**¶97x0820**
LDG	X	05 06 50 04.5	42.9N	13.2E		3.0L		
NEIC	X	05 06 50 07.1	43.13N	12.68E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(163) Cook Strait, New Zealand						
ISC	**X**	**05 06 53 18.2**±.93	**41.78S**±.063	**174.26E**±.081	**11**±7.4		**22**	**0-4**
NEIC	X	05 06 53 16.7	41.68S	174.07E	10			**¶97x0821**
WEL	X	05 06 53 18.3	41.66S	174.22E	5	4.4L		
NEIC		ML4.4(WEL)						
NEIC		Felt at Blenheim and Seddon on the South Island.						
WEL		Felt Seddon district.						
		(381) Central Italy						
ISC	**X**	**05 08 30 03.8**±.68	**42.94N**±.042	**12.87E**±.084	**18**±8.1		**25**	**0-7**
LDG	X	05 08 30 01.4	42.8N	13.3E		3.0L		**¶97x0833**
ROM	X	05 08 30 02.6	42.9N	12.9E	5	3.6D		
NEIC	X	05 08 30 05.4	43.15N	12.68E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=V MCS in the epicentral area.						

(381) Central Italy

ISC	**X**	**05 08 54 39.2**±.79	**42.91N**±.036	**12.88E**±.073	**8**±7.3			**27**	**0-7**
ROM	X	05 08 54 38.5	42.9N	13.0E	5	3.4D			**¶97x0838**
LDG	X	05 08 54 38.8	42.9N	13.3E		3.0L			
NEIC	X	05 08 54 42.3	43.13N	12.64E	10				

NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**05 09 36 20.3**±.68	**43.02N**±.040	**12.83E**±.074	**17**±7.7			**28**	**0-7**
LDG	X	05 09 36 18.3	42.8N	13.1E		3.2L			**¶97x0844**
ROM	X	05 09 36 19.2	43.0N	12.9E	7	3.5D			
NEIC	X	05 09 36 19.4	43.03N	12.81E	10				

NEIC Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.

(76) Off coast of Central America

ISC	**X**	**05 09 45 35.2**±.55	**11.91N**±.048	**88.12W**±.044	**38**±5.0	**5.0b,4.5s**		**182**	**2-165**
HRVD	X	05 09 45 35.0±.4	11.71N±.05	88.67W±.05	16±2.2				**¶97x0845**
EIDC	X	05 09 45 36.4	12.0N	88.1W	38	4.7b,4.5s			
BJI	X	05 09 45 37.9	11.80N	88.00W	72	5.6s			
NEIC	X	05 09 45 37.9	11.83N	88.05W	72	5.1b			

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c63; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.12±.05; $M_{\theta\theta}$0.89±.05; $M_{\phi\phi}$0.24±.07; $M_{r\theta}$−0.23±.18; $M_{r\phi}$0.06±.16; $M_{\theta\phi}$−0.56±.04. Principal Axes: T 1.23,Plg6°,Azm210°; N −0.08, Plg3°,Azm120°; P −1.15,Plg84°,Azm1°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S303°, δ40°,λ−85°. NP2:ϕ_S117°,δ51°,λ−94°.

NEIC Mw5.4(HRV)
NEIC Felt I=II MM at San Salvador, El Salvador.

(381) Central Italy

ISC	**X**	**05 10 47 42.4**±.97	**42.93N**±.037	**12.86E**±.063	**6**±8.0			**35**	**0-7**
ROM	X	05 10 47 40.9	42.9N	13.0E	4	3.6D			**¶97x0852**
LDG	X	05 10 47 42.1	42.8N	13.2E		3.0L			
NEIC	X	05 10 47 43.4	43.03N	12.84E	10				

NEIC Felt I=V MCS in the epicentral area.

(244) Taiwan

ISC	**X**	**05 11 53 17**±1.3	**24.34N**±.074	**121.8E**±.17	**13**			**6**	**0-1**
TAP	X	05 11 53 16.6	24.36N	121.72E	13	2.7L			**¶97x0861**

TAP Felt I=II J

(244) Taiwan

TAP	**X**	**05 14 22 25.5**	**24.45N**	**121.87E**	**12**	**2.6L**			**¶97x0873**

TAP Felt I=II J

(381) Central Italy

ISC	**X**	**05 15 28 05.0**±.83	**42.94N**±.025	**12.88E**±.029	**4**±6.8	3.5b		**109**	**0-71**
ROM	X	05 15 28 03.8	42.9N	13.0E	4	3.9D			**¶97x0881**
LDG	X	05 15 28 05.0	42.8N	13.1E		3.5L			
NEIC	X	05 15 28 05.6	42.92N	12.85E	10				
EIDC	X	05 15 28 08.3	43.1N	13.2E	0	3.8L,3.4b			
PDG	X	05 15 28 11.1	42.4N	13.4E	15	3.6L			
STR	X	05 15 28 21.6	43.55N	11.63E	10	3.7L			

NEIC M_{L}4.1(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**05 15 38 05**±1.2	**43.02N**±.038	**12.91E**±.073	**14**±9.0			**28**	**0-7**
LDG	X	05 15 38 03.7	42.9N	13.2E		3.1L			**¶97x0882**
ROM	X	05 15 38 04.4	43.0N	12.9E	8	3.6D			
NEIC	X	05 15 38 05.8	43.13N	12.82E	10				

NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(244) Taiwan

ISC	**X**	**05 18 28 50**±1.8	**24.10N**±.054	**121.7E**±.12	**5**±13			**12**	**0-1**
TAP	X	05 18 28 49.7	24.14N	121.63E	3	3.4L			**¶97x0907**

TAP Felt I=II J

(381) Central Italy

ISC	**X**	**05 20 09 13.4**±.87	**42.91N**±.034	**12.92E**±.054	**3**±7.8			**38**	**0-8**
ROM	X	05 20 09 12.6	42.9N	13.0E	5	3.5D			**¶97x0924**
NEIC	X	05 20 09 14.0	42.88N	12.95E	10				
LDG	X	05 20 09 14.4	42.9N	13.3E		3.2L			

NEIC M_{L}3.5(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**05 21 13 32**±1.3	**42.98N**±.049	**12.90E**±.086	**13**±9.6			**20**	**0-7**
ROM	X	05 21 13 31.6	43.0N	12.9E	5	3.2D			**¶97x0936**
LDG	X	05 21 13 32.4	42.9N	13.2E		2.7L			
NEIC	X	05 21 13 35.0	43.20N	12.68E	10				

NEIC Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**06 01 51 13.8**±.82	**42.95N**±.034	**12.78E**±.061	**3**±7.3			**36**	**0-8**
ROM	X	06 01 51 12.9	42.9N	13.0E	5	3.3D			**¶97x0966**
LDG	X	06 01 51 13.2	42.8N	13.2E		2.9L			
NEIC	X	06 01 51 14.4	42.94N	12.79E	10				

NEIC Felt I=III MCS in the epicentral area.

(248) Philippine Islands region

ISC	**X**	**06 03 08 13.8**±.63	**10.18N**±.025	**126.10E**±.040	**59**±5.6	**5.3b,4.7s**		**247**	**1-172**
BJI	X	06 03 08 13.1	10.03N	125.99E	67	5.4b,4.6s			**¶97x0974**
NEIC	X	06 03 08 14.5	10.16N	126.10E	66	5.4b			
MOS	X	06 03 08 15.4	10.4N	125.9E	64	5.8b			
HRVD	X	06 03 08 15.8±.4	9.81N±.04	126.46E±.04	42				
EIDC	X	06 03 08 16.6	10.1N	126.2E	71	4.9b			

NEIC Mw5.3(HRV)
NEIC Felt I=III RF at Surigao, Mindanao; II RF at Palo, Leyte and Lapu-Lapu, Mactan. Mo=4.1×10^{17}Nm (PPT).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c62; Mantle waves: s1,c1; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.95±.29; $M_{\theta\theta}$1.68±.48; $M_{\phi\phi}$−9.63±.58; $M_{r\theta}$4.70±.66; $M_{r\phi}$2.87±.63; $M_{\theta\phi}$−2.38±.33. Principal Axes: T 10.6,Plg63°,Azm351°; N 0.3,Plg24°,Azm201°; P −10.9,Plg12°,Azm105°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S168°,δ39°,λ50°. NP2:ϕ_S35°,δ61°,λ118°.

(381) Central Italy

ISC	**X**	**06 03 34 37.9**±.88	**42.99N**±.042	**12.82E**±.078	**9**±7.3			**23**	**0-7**
ROM	X	06 03 34 36.8	43.0N	12.9E	4	3.3D			**¶97x0977**
LDG	X	06 03 34 39.8	42.9N	12.9E		3.1L			
NEIC	X	06 03 34 40.2	43.06N	12.60E	10				

NEIC Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.

(533) United Kingdom

ISC	**X**	**06 06 21 40.4**±.94	**56.19N**±.080	**4.1W**±.12	**16**±14			**11**	**0-1**
BGS	X	06 06 21 41.0	56.20N	4.10W	4	2.7L			**¶97x1007**

BGS Felt I=IV+ MSK, Doune, Callander, Thornhill, Deanston and Dunblane areas

(259) Mindanao

ISC	**X**	**06 12 30 07.5**±.44	**9.76N**±.021	**125.80E**±.030	**124**±4.1	**5.9b**		**461**	**2-172**
MOS	X	06 12 30 04.2	9.9N	125.7E	88	6.2b			**¶97x1048**
NEIC	X	06 12 30 05.8	9.79N	125.78E	106	5.9b			
BJI	X	06 12 30 06.4	9.89N	125.81E	111	5.9b			
EIDC	X	06 12 30 08.3	9.7N	125.8E	124	5.6b			
HRVD	X	06 12 30 11.4±.1	9.79N±.01	125.95E±.01	114±.5				

NEIC Mw6.5(GS), Me5.8(GS)
NEIC Mw 6.4 (HRV). Felt I=III RF in eastern Cebu. Mo=9.6×10^{18}Nm (PPT).
NEIC Radiated energy from the P−wave first−motion solution: 1.0±0.2×10^{13}Nm/13
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S0°,δ65°,λ100°. NP2:ϕ_S157°,δ27°,λ70°. Principal axes: T Plg68°,Azm290°; P Plg19°,Azm83°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s25, scale 10^{18}Nm; M_{rr}1.86; $M_{\theta\theta}$1.28; $M_{\phi\phi}$−3.13; $M_{r\theta}$1.06; $M_{r\phi}$3.49; $M_{\theta\phi}$3.17. Depth 109km; Principal axes: T 5.29,Plg42°,Azm319°; N 0.48,Plg41°,Azm178°; P −5.78,Plg21°,Azm69°. Best double couple: $M_0$5.5×10^{18}Nm; NP1:ϕ_S113°,δ44°,λ19°. NP2: ϕ_S9°,δ77°,λ132°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s62,c166; Mantle waves: s58,c124; Half duration: 4s2. Moment tensor: Scale 10^{18}Nm; M_{rr}1.67±.03; $M_{\theta\theta}$1.02±.03; $M_{\phi\phi}$−2.69±.03; $M_{r\theta}$0.43±.02; $M_{r\phi}$3.66±.02; $M_{\theta\phi}$2.97±.03. Principal Axes: T 4.81,Plg43°,Azm313°; N 0.85,Plg37°,Azm177°; P −5.66,Plg24°,Azm68°. Best double couple: $M_0$5.2×10^{18}Nm, NP1:ϕ_S110°,δ40°,λ18°. NP2:ϕ_S6°,δ78°,λ128°.

(377) Spain

ISC	**X**	**06 14 26 30.4**±.50	**42.85N**±.034	**7.59W**±.067	**8**			**41**	**1-11**
NEIC	X	06 14 26 32.2	42.69N	7.62W	10				**¶97x1061**
LDG	X	06 14 26 32.8	42.8N	7.8W		3.7L			
MDD	X	06 14 26 33.6	42.75N	7.68W	8	3.7			
LIS	X	06 14 26 34	42.70N	7.68W		3.6L			

NEIC mbLg3.9(MDD)
NEIC Felt I=III MSK in the Taboada area.
MDD I=III−IV at Porto Marin, Luxumbourg

(381) Central Italy

ISC	**X**	**06 16 48 41.8**±.61	**42.92N**±.035	**12.88E**±.056	**16**±8.1			**37**	**0-8**
ROM	X	06 16 48 40.3	42.9N	13.0E	4	3.4D			**¶97x1083**
LDG	X	06 16 48 41.3	42.8N	13.1E		3.1L			
NEIC	X	06 16 48 41.3	42.95N	12.84E	10				

NEIC M_{L}3.6(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(193) Solomon Islands

ISC	**X**	**06 18 35 27**±4.4	**9.29S**±.067	**158.83E**±.068	**9**±27	**5.0b,5.0s**		**74**	**1-146**
EIDC	X	06 18 35 26.8	9.4S	159.0E	0	4.7b,4.0L			**¶97x1099**
MOS	X	06 18 35 29.8	9.3S	158.9E	33	5.6b,4.9s			
BJI	X	06 18 35 30.2	8.92S	158.89E	22	5.1b,5.2s			
NEIC	X	06 18 35 30.3	9.32S	158.82E	33	5.3b,5.0s			
HRVD	X	06 18 35 32.9±.3	9.65S±.03	158.90E±.03	43±3.2				

NEIC Mw5.6(HRV). Felt.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c77; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}0.73±.05; $M_{\theta\theta}$0.61±.08; $M_{\phi\phi}$−1.34±.09; $M_{r\theta}$0.82±.11; $M_{r\phi}$0.26±.09; $M_{\theta\phi}$2.08±.05. Principal Axes: T 2.36,Plg27°,Azm329°; N 0.31, Plg63°,Azm139°; P −2.68,Plg4°,Azm237°. Best double couple: $M_0$2.5×10^{17}Nm, NP1:ϕ_S9°, δ68°,λ163°. NP2:ϕ_S106°,δ74°,λ23°.
HNR Felt at Honiara

(244) Taiwan

ISC	**X**	**06 18 47 35**±1.3	**24.33N**±.084	**121.8E**±.19	**13**±12			**8**	**0-1**
TAP	X	06 18 47 35.0	24.35N	121.71E	11	2.5L			**¶97x1102**

TAP Felt I=III J

(193) Solomon Islands

ISC	**X**	**06 20 52 45.0**±.17	**9.26S**±.036	**158.67E**±.033	**33**	**5.5b,5.8s**		**361**	**1-164**
BJI	X	06 20 52 43.7	8.74S	158.72E	13	5.5b,5.5s			**¶97x1116**
EIDC	X	06 20 52 44.2	9.4S	159.1E	26	4.9b,4.5L			
NEIC	X	06 20 52 44.6	9.30S	158.69E	33	5.7b,5.9s			
MOS	X	06 20 52 45.0	9.2S	158.7E	33	5.8b,5.5s			
HRVD	X	06 20 52 50.1±.1	9.56S±.01	159.10E±.01	32±.7				

NEIC Mw6.1(HRV), Mw6.0(GS). Felt.
NEIC Felt at Honiara.
NEIC Moment tensor solution: s20, scale 10^{18}Nm; M_{rr}0.12; $M_{\theta\theta}$0.33; $M_{\phi\phi}$−0.45; $M_{r\theta}$0.68; $M_{r\phi}$0.15; $M_{\theta\phi}$1.05. Depth 20km; Principal axes: T 1.39,Plg27°,Azm328°; N −0.15,Plg59°,Azm119°; P −1.24,Plg13°,Azm232°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S7°,δ61°,λ169°. NP2: ϕ_S102°,δ80°,λ29°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c119; Mantle waves: s54,c97; Half duration: 2s8. Moment tensor: Scale 10^{18}Nm; M_{rr}0.73±.01; $M_{\theta\theta}$−0.07±.01; $M_{\phi\phi}$−0.66±.01; $M_{r\theta}$0.41±.03; $M_{r\phi}$0.25±.03; $M_{\theta\phi}$1.48±.01. Principal Axes: T 1.45,Plg33°,Azm321°; N 0.42,Plg57°,Azm138°; P −1.88,Plg2°,Azm230°. Best double couple: $M_0$1.7×10^{18}Nm, NP1:ϕ_S1°,δ66°,λ156°. NP2:ϕ_S101°,δ68°,λ26°.

(193) Solomon Islands

ISC	**X**	**06 21 14 04.5**±.62	**9.29S**±.067	**158.8E**±.11	**33**	**4.7b,**5.4s		**30**	**1-132**
BJI	X	06 21 14 03.4	8.91S	158.69E	14	5.0b			**¶97x1119**
NEIC	X	06 21 14 03.4	9.29S	158.93E	33	4.8b			
EIDC	X	06 21 14 05.6	9.6S	159.1E	44	4.3b,3.7L			

NEIC Felt, Less reliable solution.
HNR Felt at Honiara

(43) Southern California

ISC	**X**	**06 21 27 31**±1.1	**34.26N**±.045	**118.50W**±.084	**3**±7.3			**24**	**0-3**
NEIC	X	06 21 27 32.0	34.27N	118.47W	11				**¶97x1121**

NEIC M_{L}3.1(PAS). Felt, After PAS.
NEIC Felt at Hollywood and in the San Fernando Valley.

(381) Central Italy

ISC	**X**	**06 23 24 52.1**±.51	**43.05N**±.014	**12.83E**±.014	**4**±3.6	**5.2b,5.3s**		**535**	**0-150**
LDG	X	06 23 24 51.2	42.9N	13.2E		5.1L			**¶97x1132**
ROM	X	06 23 24 51.5	43.0N	12.9E	3	5.4D			
LEDBW	X	06 23 24 51.6	42.49N	13.55E	10	5.3L			
BJI	X	06 23 24 52.4	42.95N	12.76E	12	5.4b,5.7s			
NEIC	X	06 23 24 52.5	43.05N	12.84E	10	5.3b,5.2s			
EIDC	X	06 23 24 52.5	43.0N	12.9E	0	4.9b,5.3s			
MOS	X	06 23 24 52.6	43.0N	12.8E	10	5.9b,5.2s			
STR	X	06 23 24 57.5	43.17N	12.64E	10	5.6L			
HRVD	X	06 23 24 58.1±.4	42.90N±.06	12.55E±.09	15				
PDG	X	06 23 25 04.6	42.8N	14.0E	15	5.2L,5.2D			

NEIC M_{L}5.8(VIE), Mw5.5(HRV). Casualties I=VIII MSK.
NEIC ML 5.5 (FUR), 5.3 (FBB). Four people injured and additional damage I=VIII MCS in the Assisi, Foligno, Gualdo Tadino and Nocera Umbra areas. Felt from Arezzo to parts of Lazio.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c45; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.52±.10; $M_{\theta\theta}$0.63±.09; $M_{\phi\phi}$0.90±.11; $M_{r\theta}$1.30±.31; $M_{r\phi}$−1.00±.38; $M_{\theta\phi}$−0.98±.12. Principal Axes: T 2.41,Plg22°,Azm46°; N −0.19, Plg7°,Azm313°; P −2.22,Plg67°,Azm207°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S149°,δ23°,λ−73°. NP2:ϕ_S310°,δ68°,λ−97°.

(381) Central Italy

ISC	**X**	**06 23 45 54.8**±.60	**43.00N**±.036	**12.81E**±.058	**19**±7.0			**47**	**0-8**
ROM	X	06 23 45 53.5	43.0N	12.9E	6	3.3D			**¶97x1138**
LDG	X	06 23 45 53.5	42.9N	13.1E		3.3L			
NEIC	X	06 23 45 53.8	43.11N	12.82E	10				

NEIC M_{L}3.8(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
		(381) Central Italy						
ISC	**X**	**07 00 32 23.7**±.58	**43.00N**±.035	**12.79E**±.058	**17**±6.9		**44**	**0-8**
LDG	X	07 00 32 21.0	43.0N	13.3E		3.2L		**¶97x1145**
ROM	X	07 00 32 22.4	43.0N	12.9E	5	3.5D		
NEIC	X	07 00 32 23.0	42.93N	12.73E	10			
NEIC		M_L3.6(VIE), Less reliable solution.						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**07 01 18 02**±1.1	**42.95N**±.039	**12.79E**±.064	**14**±8.3		**34**	**0-8**
ROM	X	07 01 18 00.5	43.0N	12.9E	6	3.1D		**¶97x1151**
NEIC	X	07 01 18 00.7	42.84N	12.78E	10			
LDG	X	07 01 18 01.0	42.7N	13.0E		3.0L		
NEIC		Felt I=III MCS in the epicentral area.						
		(235) Kyūshū						
ISC	**X**	**07 01 19 20.8**±.86	**31.97N**±.060	**130.41E**±.078	**9**±12		**8**	**0-1**
JMA	X	07 01 19 21.1±.0	31.97N±.00	130.41E±.00	8±1	3.6		**¶97x1152**
JMA		Felt I=II J1						
JMA		Nodal plane solution: N35, Score 100%. NP1:ϕ_S295°,δ34°,λ−3°. NP2:ϕ_S27°,δ88°,λ−124°. Principle axes: T Plg34°,Azm145°; N Plg34°,Azm29°; P Plg38°,Azm267°.						
		(381) Central Italy						
ISC	**X**	**07 01 24 33.7**±.70	**42.99N**±.020	**12.82E**±.021	**9**±5.4	**4.2b**,3.5s	**198**	**0-81**
ROM	X	07 01 24 32.6	43.0N	12.9E	4	3.9D		**¶97x1153**
LDG	X	07 01 24 33.3	42.9N	13.1E		4.0L		
MOS	X	07 01 24 33.5	43.0N	12.9E	10	5.0b		
NEIC	X	07 01 24 33.9	43.01N	12.78E	10	4.4b		
EIDC	X	07 01 24 34.7	43.0N	13.0E	0	4.1b,4.1L		
PDG	X	07 01 24 35.1	42.7N	12.7E	15	4.2L		
STR	X	07 01 24 36.8	43.05N	12.72E	10	4.5L		
NEIC		M_L4.6(VIE), M_L4.2(FUR)						
NEIC		Felt I=V MCS in the epicentral area.						
		(224) Hokkaido region						
ISC	**X**	**07 02 17 12**±1.8	**42.8N**±.13	**144.9E**±.16	**48**±30		**10**	**0-2**
JMA	X	07 02 17 11.6±.1	42.77N±.01	144.88E±.01	50±2	4.0		**¶97x1157**
JMA		Felt I=II J1						
JMA		Nodal plane solution: N23, Score 96%. NP1:ϕ_S262°,δ11°,λ−153°. NP2:ϕ_S145°,δ85°,λ−79°. Principle axes: T Plg39°,Azm226°; N Plg10°,Azm325°; P Plg49°,Azm66°.						
		(381) Central Italy						
ISC	**X**	**07 02 39 15.3**±.79	**43.01N**±.028	**12.88E**±.032	**5**±6.7		**101**	**0-9**
LDG	X	07 02 39 14.2	42.8N	13.2E		3.5L		**¶97x1161**
ROM	X	07 02 39 14.7	43.0N	12.9E	6	3.7D		
NEIC	X	07 02 39 14.9	42.96N	12.97E	10			
STR	X	07 02 39 15.9	42.93N	13.19E	11	4.1L		
NEIC		M_L4.2(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**07 03 01 36.0**±.81	**43.03N**±.039	**12.86E**±.065	**8**±7.1		**26**	**0-7**
NEIC	X	07 03 01 34.0	42.95N	13.02E	10			**¶97x1163**
ROM	X	07 03 01 35.8	43.0N	12.9E	5	3.3D		
LDG	X	07 03 01 37.0	42.9N	13.0E		2.8L		
NEIC		Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**07 03 30 08.5**±.90	**42.99N**±.039	**12.80E**±.062	**7**±7.4		**33**	**0-8**
ROM	X	07 03 30 07.1	43.0N	13.0E	5	3.3D		**¶97x1169**
NEIC	X	07 03 30 08.8	43.00N	12.80E	10			
LDG	X	07 03 30 09.8	43.0N	13.0E		3.0L		
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**07 03 43 45.2**±.78	**42.99N**±.030	**12.85E**±.042	**6**±6.7	4.0b	**64**	**0-27**
NEIC	X	07 03 43 41.3	42.69N	13.06E	10			**¶97x1173**
ROM	X	07 03 43 44.9	43.0N	12.9E	9	3.4D		
LDG	X	07 03 43 46.7	43.0N	13.0E		3.3L		
EIDC	X	07 03 43 53.8	43.6N	13.2E	0	3.7L,4.1b		
NEIC		M_L3.8(VIE), Less reliable solution.						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**07 04 25 55.0**±.79	**42.98N**±.024	**12.86E**±.028	**9**±6.4		**117**	**0-20**
ROM	X	07 04 25 53.9	43.0N	12.9E	4	3.7D		**¶97x1178**
LDG	X	07 04 25 54.2	42.9N	13.2E		3.6L		
NEIC	X	07 04 25 55.4	42.99N	12.82E	10			
EIDC	X	07 04 25 56.9	43.1N	13.0E	0	4.0L		
STR	X	07 04 26 01.5	43.15N	12.44E	10	4.0L		
NEIC		M_L3.9(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**07 04 53 17.8**±.85	**43.04N**±.029	**12.81E**±.039	**10**±6.8		**72**	**0-9**
NEIC	X	07 04 53 16.3	42.98N	12.82E	10			**¶97x1184**
ROM	X	07 04 53 16.8	43.1N	12.9E	6	3.6D		
STR	X	07 04 53 16.8	42.93N	13.09E	10	4.0L		
LDG	X	07 04 53 18.8	43.0N	12.9E		3.5L		
NEIC		M_L3.9(VIE), Less reliable solution.						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**07 05 09 56.0**±.67	**43.01N**±.020	**12.84E**±.020	**4**±5.1	**4.5b,4.3s**	**216**	**0-87**
ROM	X	07 05 09 55.4	43.0N	12.9E	5	4.1D		**¶97x1186**
NEIC	X	07 05 09 56.7	43.01N	12.85E	10	4.5b		
MOS	X	07 05 09 56.8	43.0N	12.9E	10	5.1b,3.7s		
BJI	X	07 05 09 57.1	43.43N	11.98E	32	5.0b		
EIDC	X	07 05 09 57.4	43.0N	13.0E	0	4.2b,4.1s		
LDG	X	07 05 09 58.3	42.9N	12.9E		4.2L		
STR	X	07 05 09 59.5	42.99N	12.74E	10	4.6L		
PDG	X	07 05 09 59.6	42.5N	12.8E	15	4.4L		
NEIC		M_L4.8(VIE), M_L4.7(FUR)						
NEIC		Felt I=VI MCS in the epicentral area.						
		(449) Eastern Québec Province						
ISC	**X**	**07 05 59 25**±1.3	**50.3N**±.10	**63.6W**±.17	**18**		**10**	**2-7**
OTT	X	07 05 59 28.4	50.3N	64.2W	18	3.3N		**¶97x1190**
OTT		Felt, Lower Quebec North Shore.						
		(538) France						
ISC	**X**	**07 08 42 35.5**±.48	**43.17N**±.039	**0.10E**±.043	**8**±6.7		**26**	**0-4**
LDG	X	07 08 42 37.4	43.1N	0.0E		3.0L		**¶97x1218**
MDD	X	07 08 42 38.0	42.99N	3.17W	1	3.1		
MDD		Felt I=II at southwest Bayeres Bigorre, France						
		(216) Marianas						
ISC	**X**	**07 10 40 45.4**±.99	**13.2N**±.10	**145.5E**±.17	**33**	**3.9b**	**11**	**1-145**
EIDC	X	07 10 40 41.3	13.1N	146.0E	0	4.0b		**¶97x1230**
NEIC	X	07 10 40 44.9	13.19N	145.59E	33	3.9b		
NEIC		Less reliable solution.						
NEIC		Felt I=III MM on Guam.						
		(238) Ryūkyū Islands						
ISC	**X**	**07 15 00 48.3**±.73	**28.19N**±.049	**130.22E**±.085	**43**±6.7	**4.0b**,4.3s	**33**	**0-78**
EIDC	X	07 15 00 44.3	28.3N	130.2E	0	4.0b,3.8L		**¶97x1270**
JMA	X	07 15 00 46.2±.3	28.09N±.01	130.41E±.02	39±3	3.9		
NEIC	X	07 15 00 46.6	28.32N	130.28E	33	4.3b		
BJI	X	07 15 00 47.6	28.30N	130.30E	33	4.1b,4.2s		
JMA		Felt I=II J1						
NEIC		Less reliable solution.						
		(244) Taiwan						
ISC	**X**	**07 17 05 58**±1.1	**23.21N**±.073	**120.08E**±.084	**12**		**9**	**0-1**
TAP	X	07 17 05 57.3	23.19N	120.09E	12	2.7L		**¶97x1281**
TAP		Felt I=II J						
		(381) Central Italy						
ISC	**X**	**07 19 06 23.4**±.87	**43.01N**±.030	**12.81E**±.046	**6**±7.0		**59**	**0-8**
LDG	X	07 19 06 21.2	42.9N	13.3E		3.4L		**¶97x1286**
ROM	X	07 19 06 22.4	43.0N	12.9E	5	3.5D		
NEIC	X	07 19 06 23.9	42.99N	12.77E	10			
STR	X	07 19 06 30.6	43.19N	12.41E	11	3.7L		
NEIC		M_L3.7(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**07 19 56 07.9**±.83	**42.99N**±.024	**12.87E**±.027	**8**±6.6	**3.9b**	**131**	**0-75**
ROM	X	07 19 56 06.5	43.0N	13.0E	3	3.8D		**¶97x1292**
LDG	X	07 19 56 07.0	42.8N	13.2E		3.8L		
NEIC	X	07 19 56 08.1	42.98N	12.86E	10	4.2b		
EIDC	X	07 19 56 10.6	43.0N	13.4E	0	3.9L,3.7b		
STR	X	07 19 56 13.3	43.08N	12.76E	10	4.0L		
NEIC		M_L4.2(VIE), M_L4.0(FUR)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**07 20 02 51.4**±.90	**42.95N**±.039	**12.75E**±.072	**7**±7.7		**26**	**0-7**
LDG	X	07 20 02 50.0	42.8N	13.1E		3.3L		**¶97x1293**
ROM	X	07 20 02 50.1	43.0N	12.9E	3	3.3D		
NEIC	X	07 20 02 51.3	42.89N	12.74E	10			
NEIC		Poor solution.						
NEIC		ML 3.2 (VIE). Felt I=IV MCS in the epicentral area.						
		(244) Taiwan						
ISC	**X**	**08 01 38 26**±2.2	**22.79N**±.084	**120.7E**±.21	**16**		**5**	**0-1**
TAP	X	08 01 38 25.8	22.79N	120.67E	16	2.6L		**¶97x1337**
TAP		Felt I=II J						
		(35) Near coast of Northern California						
ISC	**X**	**08 04 02 25.3**±.95	**39.01N**±.050	**123.1W**±.13	**11**±7.6		**16**	**0-3**
NEIC	X	08 04 02 25.5	39.04N	123.12W	6			**¶97x1352**
NEIC		M_D3.1(GM), M_L3.1(GS). Felt, After GM−P.						
NEIC		ML 2.8 (BRK). Felt at Ukiah.						
		(381) Central Italy						
ISC	**X**	**08 06 47 22.8**±.82	**42.95N**±.027	**12.80E**±.032	**7**±6.7		**89**	**0-8**
LDG	X	08 06 47 20.6	42.8N	13.3E		3.7L		**¶97x1360**
ROM	X	08 06 47 21.5	43.0N	12.9E	5	3.7D		
NEIC	X	08 06 47 23.3	42.93N	12.75E	10			
PDG	X	08 06 47 27.3	43.0N	13.0E	20	3.8L		
NEIC		M_L4.0(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(244) Taiwan						
ISC	**X**	**08 06 47 38.8**±.61	**23.03N**±.032	**120.74E**±.064	**4**	4.3b	**25**	**0-47**
TAP	X	08 06 47 38.5	23.06N	120.76E	4	4.2L		**¶97x1361**
JMA	X	08 06 47 42.5±.4	23.34N±.07	121.11E±.04	201			
TAP		Felt I=III J						
		(533) United Kingdom						
ISC	**X**	**08 09 37 15**±1.1	**54.2N**±.12	**3.1W**±.15	**23**±11		**7**	**0-2**
BGS	X	08 09 37 16.0	54.23N	3.12W	12	2.1L		**¶97x1382**
BGS		Felt I=III+ MSK Ulverston, Bouth, Broughton Beck and Kirkby−in−Furnace						
		(232) Southern Honshū						
ISC	**X**	**08 10 06 06.9**±.53	**34.88N**±.045	**136.95E**±.052	**20**		**15**	**0-2**
JMA	X	08 10 06 07.1±.0	34.89N±.00	136.95E±.00	20±1	3.5		**¶97x1387**
JMA		Felt I=II J1						
JMA		Nodal plane solution: N41, Score 95%. NP1:ϕ_S244°,δ19°,λ102°. NP2:ϕ_S52°,δ71°,λ86°. Principle axes: T Plg64°,Azm316°; N Plg4°,Azm53°; P Plg26°,Azm145°.						
		(381) Central Italy						
ISC	**X**	**08 10 25 16.3**±.47	**42.97N**±.034	**12.91E**±.086	**10**	3.5b	**23**	**0-71**
ROM	X	08 10 25 15.5	43.0N	12.9E	8	3.3D		**¶97x1393**
NEIC	X	08 10 25 20.1	43.26N	13.30E	10			
EIDC	X	08 10 25 21.1	43.2N	12.8E	0	3.7L,3.4b		
NEIC		M_L3.5(VIE), Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(265) Minahassa Peninsula (Celebes)						
ISC	**X**	**08 14 59 35**±2.2	**0.8S**±.17	**119.5E**±.23	**80**±23	**3.7b**	**11**	**3-39**
EIDC	X	08 14 59 27.3	0.8S	119.5E	0	4.0b,3.2s		**¶97x1433**
NEIC	X	08 14 59 35.3	0.79S	119.55E	82	4.1b		
NEIC		Less reliable solution.						
NEIC		Felt I=III MM at Palu.						
		(230) Near south coast of Honshū						
ISC	**X**	**08 19 30 17**±3.0	**35.16N**±.075	**139.3E**±.29	**14**±9.5		**8**	**0-2**
JMA	X	08 19 30 17.5±.0	35.16N±.00	139.25E±.00	14±1	3.3		**¶97x1462**
JMA		Felt I=II J1						
JMA		Nodal plane solution: N85, Score 94%. NP1:ϕ_S311°,δ64°,λ−158°. NP2:ϕ_S210°,δ70°,λ−26°. Principle axes: T Plg4°,Azm261°; N Plg57°,Azm357°; P Plg33°,Azm168°.						
		(381) Central Italy						
ISC	**X**	**08 19 41 45.7**±.90	**43.05N**±.040	**12.81E**±.076	**12**±7.2		**21**	**0-7**
NEIC	X	08 19 41 42.4	42.71N	13.02E	10			**¶97x1463**
LDG	X	08 19 41 44.9	42.8N	13.1E		2.7L		
ROM	X	08 19 41 45.4	43.1N	12.8E	10	3.0D		
NEIC		Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(224) Hokkaido region						
ISC	**X**	**08 21 20 57.7**±.86	**41.92N**±.024	**144.84E**±.031	**17**±5.8	**5.5b,5.7s**	**573**	**1-154**
JMA	X	08 21 20 57.8±.4	41.89N±.02	145.05E±.03	41	5.6		**¶97x1480**
BJI	X	08 21 20 58.6	41.93N	144.41E	10	5.7b,6.1s		
SKHL	X	08 21 20 59.0	41.9N±.14	144.8E±.24	28±3			
NEIC	X	08 21 20 59.7	41.91N	144.82E	33	5.5b,5.6s		
HRVD	X	08 21 20 59.9±.2	41.76N±.02	145.44E±.03	16			
MOS	X	08 21 21 01.1	42.2N	144.8E	33	6.0b,6.1s		
EIDC	X	08 21 21 03.0	42.0N	144.7E	49	4.8b		
JMA		Felt I=II J1						
NEIC		Mw5.9(GS), Me5.8(GS). Felt I=III MM.						
NEIC		Radiated energy from the P−wave first−motion solution: $1.0\pm0.3\times10^{13}$Nm/8						
NEIC		Mw 5.9 (HRV). Felt I=II J in southeastern Hokkaido and I J in Aomori Prefecture, Honshu.						
NEIC		Broadband fault plane solution: P waves. NP1:ϕ_S15°,δ70°,λ60°. NP2:ϕ_S254°,δ36°,λ144°. Principal axes: T Plg55°,Azm247°; P Plg19°,Azm127°. Depth from synthetics of broadband displacement seismograms.						

NEIC Moment tensor solution: s34, scale 10^{17}Nm; M_{rr}1.01; $M_{\theta\theta}$−0.37; $M_{\phi\phi}$−0.64; $M_{r\theta}$3.26; $M_{r\phi}$6.19; $M_{\theta\phi}$−1.40. Depth 15km; Principal axes: T 6.80,Plg50°,Azm291°; N 0.72,Plg5°, Azm28°; P −7.52,Plg39°,Azm122°. Best double couple: $M_0$7.2×10^{17}Nm; NP1:ϕ_S253°,δ8°, λ135°. NP2:ϕ_S27°,δ84°,λ84°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c93; Mantle waves: s9,c15; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}3.39±.07; $M_{\theta\theta}$−1.00±.07; $M_{\phi\phi}$−2.39±.11; $M_{r\theta}$2.43±.20; $M_{r\phi}$6.06±.20; $M_{\theta\phi}$−2.65±.08. Principal Axes: T 7.27,Plg59°,Azm280°; N 0.74,Plg10°,Azm26°; P −8.01,Plg29°,Azm121°. Best double couple: $M_0$7.6×10^{17}Nm, NP1:ϕ_S238°,δ18°,λ123°. NP2:ϕ_S23°,δ75°,λ80°.

(7) Andreanof Islands

ISC	**X**	**09 02 48 06**±1.1	**51.54N**±.067	**178.14W**±.047	**50**±9.1	**4.8b,3.9s**	**159**	**1-151**	
BJI	X	09 02 48 03.1	51.34N	178.05W	39	5.0b			**¶97x1512**
NEIC	X	09 02 48 03.4	51.49N	178.16W	33	4.9b			
MOS	X	09 02 48 03.7	51.4N	178.2W	33	5.1b			
EIDC	X	09 02 48 07.2	51.5N	178.1W	49	4.4b,3.8s			

NEIC M_{L}4.8(PMR)

NEIC Felt I=IV MM on Adak.

(224) Hokkaido region

ISC	**X**	**09 03 29 13.0**±.71	**42.15N**±.051	**144.53E**±.053	**50**±4.8	**4.9b,5.0s**	**208**	**1-151**	
EIDC	X	09 03 29 07.6	42.1N	144.5E	0	4.4b,4.8s			**¶97x1514**
JMA	X	09 03 29 07.7±.2	41.90N±.02	145.00E±.02	44	5.1			
HRVD	X	09 03 29 07.7±1.2	41.71N±.08	145.58E±.11	15				
SKHL	X	09 03 29 09.0	42.0N±.05	145.0E±.13	35±3				
NEIC	X	09 03 29 10.7	42.13N	144.44E	33	5.1b,4.8s			
MOS	X	09 03 29 10.8	42.0N	144.5E	33	5.6b,5.0s			
BJI	X	09 03 29 11.2	41.97N	144.39E	32	5.1b,5.1s			

JMA Felt I=II J1

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c37; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}4.89±.39; $M_{\theta\theta}$−1.54±.34; $M_{\phi\phi}$−3.35±.46; $M_{r\theta}$2.47±1.34; $M_{r\phi}$9.77±1.26; $M_{\theta\phi}$−3.91±.47. Principal Axes: T 11.4,Plg56°,Azm270°; N 0.5, Plg13°,Azm20°; P −11.9,Plg30°,Azm118°. Best double couple: $M_0$1.2×10^{17}Nm, NP1: ϕ_S243°,δ19°,λ134°. NP2:ϕ_S17°,δ77°,λ77°.

SKHL $K_{11.5}$

NEIC Mw5.4(HRV). Felt I=III MM.

NEIC Felt I=II J1 in south-central Hokkaido.

(224) Hokkaido region

ISC	**X**	**09 04 00 49**±1.0	**41.92N**±.035	**144.83E**±.038	**18**±6.6	**5.2b,5.1s**	**322**	**1-154**	
EIDC	X	09 04 00 46.8	42.0N	144.8E	0	4.7b,5.0s			**¶97x1519**
JMA	X	09 04 00 48.8±.2	41.90N±.01	144.97E±.02	40	5.0			
SKHL	X	09 04 00 49.0	42.0N±.10	144.9E±.05	33±4				
BJI	X	09 04 00 50.1	42.01N	144.44E	17	5.4b,5.3s			
HRVD	X	09 04 00 50.4±.6	41.64N±.07	145.39E±.10	15±3.2				
NEIC	X	09 04 00 50.4	41.92N	144.75E	33	5.3b,5.0s			
MOS	X	09 04 00 50.9	42.0N	144.8E	33	5.9b,5.1s			

JMA Felt I=II J1

SKHL $K_{11.5}$

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c51; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.79±.05; $M_{\theta\theta}$−0.35±.04; $M_{\phi\phi}$−0.44±.07; $M_{r\theta}$0.33±.17; $M_{r\phi}$1.62±.42; $M_{\theta\phi}$−0.28±.05. Principal Axes: T 1.91,Plg56°,Azm275°; N −0.22, Plg7°,Azm16°; P −1.69,Plg33°,Azm111°. Best double couple: $M_0$1.8×10^{17}Nm, NP1:ϕ_S229°, δ14°,λ123°. NP2:ϕ_S14°,δ79°,λ82°.

NEIC Mw5.5(HRV)

NEIC Felt I=II J1 in south eastern Hokkaido.

(381) Central Italy

ISC	**X**	**09 05 38 50.7**±.80	**42.93N**±.037	**12.82E**±.071	**6**±7.5		**26**	**0-7**	
ROM	X	09 05 38 49.4	43.0N	12.9E	3	3.3D			**¶97x1534**
NEIC	X	09 05 38 52.7	43.07N	12.69E	10				
LDG	X	09 05 38 54.3	43.0N	12.7E		3.0L			

NEIC M_D3.3(ROM), Less reliable solution.

NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**09 10 34 17.7**±.81	**43.14N**±.034	**12.76E**±.057	**11**±6.6		**47**	**0-7**	
NEIC	X	09 10 34 15.3	42.96N	12.85E	10				**¶97x1570**
ROM	X	09 10 34 16.9	43.2N	12.8E	7	3.5D			
LDG	X	09 10 34 18.0	43.1N	12.9E		3.6L			

NEIC M_L3.8(VIE), Less reliable solution.

NEIC Felt I=IV MCS in the epicentral area.

(244) Taiwan

ISC	**X**	**09 11 43 14**±1.9	**24.44N**±.071	**121.9E**±.19	**13**		**9**	**0-1**	
TAP	X	09 11 43 11.6	24.38N	121.93E	13	2.8L			**¶97x1578**

TAP Felt I=II J

(381) Central Italy

ISC	**X**	**09 14 58 23.5**±.59	**43.02N**±.043	**12.78E**±.078	**10**		**18**	**0-7**	
ROM	X	09 14 58 22.9	43.0N	12.8E	5	3.3D			**¶97x1596**
NEIC	X	09 14 58 30.0	43.27N	12.11E	10				
LDG	X	09 14 58 31.0	43.1N	12.2E		3.3L			

NEIC Poor solution.

NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**09 18 02 49**±1.1	**42.96N**±.041	**12.82E**±.073	**12**±8.9		**25**	**0-7**	
ROM	X	09 18 02 47.7	43.0N	12.9E	2	3.4D			**¶97x1614**
LDG	X	09 18 02 47.8	42.8N	13.1E		3.2L			
NEIC	X	09 18 02 50.3	43.07N	12.68E	10				

NEIC M_L3.3(VIE), Less reliable solution.

NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**09 18 11 30.2**±.79	**42.89N**±.028	**12.89E**±.034	**6**±6.5	3.5b	**94**	**0-75**	
ROM	X	09 18 11 29.4	42.9N	12.9E	5	3.8D			**¶97x1615**
LDG	X	09 18 11 30.0	42.8N	13.2E		3.6L			
NEIC	X	09 18 11 30.2	42.85N	12.87E	10				
EIDC	X	09 18 11 32.3	42.9N	13.3E	0	3.7b,3.9L			
STR	X	09 18 11 34.7	42.90N	12.90E	10	3.9L			

NEIC M_L3.9(VIE)

NEIC ML 3.8 (FUR). Felt I=V MCS in the epicentral area.

(405) Azores

ISC	**X**	**09 18 14 36.9**±.60	**38.08N**±.076	**26.92W**±.063	**0**		**20**	**1-1**	
ADH	X	09 18 14 40.9	38.30N	26.84W		3.2D			**¶97x1617**

ADH Felt on Terceira, I=II−III MM at Praia da Victoria, II at Agualva, Angra do Heroismo and Porto Judeu

(381) Central Italy

ISC	**X**	**09 19 52 30.8**±.96	**43.00N**±.038	**12.78E**±.069	**15**±7.7		**25**	**0-7**	
ROM	X	09 19 52 29.7	43.0N	12.9E	5	3.2D			**¶97x1633**
NEIC	X	09 19 52 30.0	42.98N	12.75E	10				
LDG	X	09 19 52 30.9	42.9N	12.9E		2.8L			

NEIC M_L2.9(VIE), Less reliable solution.

NEIC Felt I=III MCS in the epicentral area.

(223) Eastern Sea of Japan

ISC	**X**	**09 20 42 00.2**±.73	**41.99N**±.033	**138.93E**±.032	**16**±5.5	**5.2b,5.1s**	**275**	**0-153**	
JMA	X	09 20 42 00.1±.2	41.89N±.01	138.93E±.02	38±3	5.1			**¶97x1639**
BJI	X	09 20 42 01.8	42.16N	139.15E	48	5.0b,5.4s			
NEIC	X	09 20 42 02.2	41.98N	138.86E	33	5.2b,4.8s			
MOS	X	09 20 42 02.8	42.0N	138.7E	33	5.6b,5.3s			
EIDC	X	09 20 42 03.6	42.0N	138.9E	30	4.4b,4.0L			
HRVD	X	09 20 42 05.1±.3	41.95N±.03	138.78E±.04	42±2.3				

JMA Felt I=III J1

NEIC Mw5.5(HRV)

NEIC Felt I=III J1 on Okushiri; II J1 in Aomori Prefecture, Honshu and south western Hokkaido.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c52; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.64±.04; $M_{\theta\theta}$0.01±.05; $M_{\phi\phi}$−1.65±.06; $M_{r\theta}$−0.19±.09; $M_{r\phi}$−0.51±.11; $M_{\theta\phi}$−0.38±.06. Principal Axes: T 1.73,Plg81°,Azm119°; N 0.09,Plg3°,Azm13°; P −1.82,Plg9°,Azm282°. Best double couple: $M_0$1.8×10^{17}Nm, NP1: ϕ_S9°,δ36°,λ86°. NP2:ϕ_S195°,δ54°,λ93°.

(228) Near east coast of Honshū

ISC	**X**	**10 00 56 28.1**±.69	**40.68N**±.042	**142.55E**±.088	**48**±5.7	**4.3b,4.1s**	**62**	**1-86**	
EIDC	X	10 00 56 22.8	40.6N	142.6E	0	4.1b,4.2L			**¶97x1671**
BJI	X	10 00 56 26.2	40.60N	142.50E	33	4.5b,4.6s			
NEIC	X	10 00 56 26.2	40.61N	142.48E	33	4.7b			
JMA	X	10 00 56 26.3±.3	40.67N±.01	142.62E±.02	13±4	4.5			
MOS	X	10 00 56 27.1	40.7N	142.6E	33	5.1b			

NEIC Felt I=II J1 in southern Aomori and northern Iwate Prefectures.

JMA Felt I=II J1

(381) Central Italy

ISC	**X**	**10 01 17 41.3**±.62	**43.01N**±.047	**12.68E**±.099	**17**±8.0		**23**	**0-7**	
LDG	X	10 01 17 41.2	42.9N	12.8E		2.7L			**¶97x1674**
NEIC	X	10 01 17 41.6	43.09N	12.56E	10				

NEIC M_D2.9(ROM), Less reliable solution.

NEIC Felt I=III MCS in the epicentral area.

(193) Solomon Islands

ISC	**X**	**10 18 45 49**±3.7	**9.29S**±.041	**158.75E**±.036	**12**±22	**5.4b,5.6s**	**286**	**1-165**	
EIDC	X	10 18 45 48.8	9.3S	158.8E	0	5.2b,5.6s			**¶97x1789**
BJI	X	10 18 45 51.9	8.76S	158.86E	20	5.5b,5.6s			
NEIC	X	10 18 45 52.4	9.32S	158.73E	33	5.4b,5.7s			
MOS	X	10 18 45 52.9	9.2S	158.7E	33	5.6b,5.6s			
HRVD	X	10 18 45 56.2±.1	9.62S±.02	158.99E±.01	25				

NEIC Mw6.0(HRV), Mw5.8(GS)

NEIC Moment tensor solution: s14, scale 10^{17}Nm; M_{rr}4.55; $M_{\theta\theta}$−3.10; $M_{\phi\phi}$−1.45; $M_{r\theta}$2.48; $M_{r\phi}$1.81; $M_{\theta\phi}$4.19. Depth 24km; Principal axes: T 6.54,Plg57°,Azm315°; N 0.07,Plg33°, Azm125°; P −6.61,Plg4°,Azm218°. Best double couple: $M_0$6.6×10^{17}Nm; NP1:ϕ_S338°,δ50°, λ135°. NP2:ϕ_S101°,δ57°,λ50°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s50,c97; Mantle waves: s9,c14; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}4.38±.08; $M_{\theta\theta}$−0.56±.11; $M_{\phi\phi}$−3.82±.12; $M_{r\theta}$5.22±.20; $M_{r\phi}$1.50±.24; $M_{\theta\phi}$7.23±.09. Principal Axes: T 9.93,Plg43°,Azm327°; N 0.02,Plg45°,Azm129°; P −9.95,Plg9°,Azm228°. Best double couple: $M_0$9.9×10^{17}Nm, NP1:ϕ_S358°,δ53°,λ153°. NP2:ϕ_S105°,δ68°,λ40°.

HNR Felt I=VI MM Honiara

(381) Central Italy

ISC	**X**	**10 22 08 47.0**±.84	**42.96N**±.031	**12.86E**±.048	**8**±7.0		**51**	**0-7**	
NEIC	X	10 22 08 44.8	42.78N	12.97E	10				**¶97x1806**
LDG	X	10 22 08 45.5	42.8N	13.2E		3.6L			
ROM	X	10 22 08 46.4	43.0N	12.9E	5	3.6D			

NEIC Less reliable solution.

NEIC ML 3.6 (VIE). Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**11 03 20 56.7**±.76	**43.05N**±.027	**12.75E**±.027	**10**±6.0		**107**	**0-21**	
NEIC	X	11 03 20 55.6	42.98N	12.79E	10				**¶97x1839**
ROM	X	11 03 20 56.0	43.1N	12.8E	7	3.8D			
LDG	X	11 03 20 57.8	43.0N	12.9E		3.9L			
PDG	X	11 03 21 04.4	42.8N	13.4E	16	3.8L			

NEIC M_L4.3(VIE)

NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**11 05 44 31.0**±.81	**42.96N**±.039	**12.83E**±.075	**5**±6.5		**25**	**0-84**	
ROM	X	11 05 44 29.8	43.0N	13.0E	4	3.2D			**¶97x1855**
NEIC	X	11 05 44 31.4	42.96N	12.80E	10				
LDG	X	11 05 44 31.7	42.8N	13.0E		3.1L			

NEIC Poor solution.

NEIC Felt I=IV MCS in the epicentral area.

(230) Near south coast of Honshū

ISC	**X**	**11 05 44 35.7**±.42	**34.40N**±.030	**138.19E**±.030	**27**±2.9	**5.1b,4.8s**	**242**	**0-161**	
NEIC	X	11 05 44 35.5	34.38N	138.15E	28	5.2b,4.5s			**¶97x1856**
JMA	X	11 05 44 35.6±.1	34.42N±.01	138.23E±.01	36±2	4.9			
BJI	X	11 05 44 36.5	34.40N	138.10E	27	4.9b,5.0s			
EIDC	X	11 05 44 37.0	34.4N	138.1E	24	4.7b,4.5s			
MOS	X	11 05 44 37.8	34.7N	138.2E	33	5.5b,5.0s			
HRVD	X	11 05 44 39.5±.6	34.51N±.10	138.34E±.12	27±7.7				

NEIC Mw5.2(HRV).

JMA Felt I=III J1

JMA Nodal plane solution: N149, Score 93%. NP1:ϕ_S261°,δ57°,λ−40°. NP2:ϕ_S17°,δ57°,λ−139°. Principle axes: T Plg0°,Azm139°; N Plg39°,Azm49°; P Plg51°,Azm229°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c29; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.88±.36; $M_{\theta\theta}$−1.59±.52; $M_{\phi\phi}$−2.29±.65; $M_{r\theta}$6.32±1.71; $M_{r\phi}$−3.15±1.62; $M_{\theta\phi}$0.78±.40. Principal Axes: T 8.51,Plg57°,Azm22°; N −1.47,Plg5°,Azm121°; P −7.03,Plg33°,Azm214°. Best double couple: $M_0$7.8×10^{16}Nm, NP1: ϕ_S325°,δ13°,λ114°. NP2:ϕ_S120°,δ78°,λ84°.

(233) Near south coast of Southern Honshū

ISC	**X**	**11 08 24 21**±1.1	**34.04N**±.069	**135.27E**±.093	**13**±11		**8**	**0-3**	
JMA	X	11 08 24 21.0±.0	34.04N±.00	135.26E±.00	10±1	3.6			**¶97x1863**

JMA Nodal plane solution: N40, Score 98%. NP1:ϕ_S237°,δ34°,λ178°. NP2:ϕ_S331°,δ88°,λ56°. Principle axes: T Plg37°,Azm210°; N Plg34°,Azm331°; P Plg34°,Azm89°.

JMA Felt I=II J1

(228) Near east coast of Honshū

ISC	**X**	**11 09 45 31.6**±.45	**38.84N**±.028	**141.98E**±.042	**52**±3.6	**5.3b,4.7s**	**323**	**0-155**	
BJI	X	11 09 45 29.4	38.80N	142.01E	43	5.5b,4.7s			**¶97x1874**
JMA	X	11 09 45 30.3±.1	38.87N±.00	142.18E±.02	54±2	5.1			
MOS	X	11 09 45 31.3	39.1N	141.9E	37	5.8b,4.7s			
EIDC	X	11 09 45 31.3	38.9N	142.0E	37	4.7b,5.1L			
NEIC	X	11 09 45 31.4	38.86N	142.05E	52	5.3b,4.6s			
HRVD	X	11 09 45 34.1±.5	38.70N±.06	142.07E±.07	34±3.9				

JMA Felt I=III J1

NEIC Mw5.4(HRV). Felt I=V MM.

NEIC Felt I=III J1 in northeastern Miyagi and southeastern Iwate Prefectures. Felt II J1 in southeastern Aomori and north-central Miyagi Prefectures. Also felt II J1 in other parts of Iwate Prefecture.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c32; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.59±.41; $M_{\theta\theta}$0.20±.49; $M_{\phi\phi}$−5.78±.55; $M_{r\theta}$4.21±.93; $M_{r\phi}$8.57±1.08; $M_{\theta\phi}$−4.51±.56. Principal Axes: T 10.5,Plg63°,Azm293°; N 2.6, Plg2°,Azm27°; P −13.1,Plg27°,Azm118°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S212°, δ18°,λ95°. NP2:ϕ_S26°,δ72°,λ88°.

(405) Azores

ISC	**X**	**11 12 30 27.9**±.58	**38.17N**±.064	**27.10W**±.057	**0**		**18**	**0-2**	
ADH	X	11 12 30 32.3	38.38N	27.06W		3.4D			**¶97x1891**

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ADH		Felt I=II MM on Terceira						
		(243) Taiwan region						
ISC	**X**	**11 18 24 25.0**±.19	**25.02N**±.019	**122.52E**±.023	**154**±1.9	**5.2b**	**425**	**0-167**
MOS	X	11 18 24 23.6	25.1N	122.6E	142	5.8b		¶97x1921
NEIC	X	11 18 24 23.8	25.03N	122.45E	143	5.3b		
BJI	X	11 18 24 24.8	24.99N	122.59E	155	5.8b		
TAP	X	11 18 24 25.7	24.98N	122.58E	146	6.1L		
HRVD	X	11 18 24 26.2±.3	24.86N±.03	122.57E±.05	147±1.6			
EIDC	X	11 18 24 26.7	25.1N	122.5E	156	4.9b		
JMA	X	11 18 24 26.9±.4	25.03N±.04	122.58E±.03	134	5.5		
NEIC		Mw5.5(HRV). Felt I=V MM.						
TAP		Felt I=III J Ilan, Hwalien, II Neicheng, Chengkung, I Mucha, Taipei, Kuangyinshan, Tachien, Taichung, Pinlang						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c57; Mantle waves: s12,c14; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.21±.06; $M_{\theta\theta}$−0.30±.09; $M_{\phi\phi}$1.51±.10; $M_{r\theta}$−0.67±.06; $M_{r\phi}$−1.43±.07; $M_{\theta\phi}$−0.21±.09. Principal Axes: T 2.12,Plg24°,Azm92°; N −0.03,Plg19°,Azm191°; P −2.09,Plg59°,Azm315°. Best double couple: M0 2.1×10^{17}Nm, NP1:φS149°,δ27°,λ−135°. NP2:φS17°,δ71°,λ−70°.						
		(381) Central Italy						
ISC	**X**	**11 18 55 13.0**±.86	**43.08N**±.045	**12.79E**±.084	**10**±7.1		**21**	**0-7**
ROM	X	11 18 55 12.5	43.1N	12.9E	4	3.3D		¶97x1922
LDG	X	11 18 55 13.8	42.9N	12.9E		3.2L		
NEIC	X	11 18 55 14.1	43.11N	12.64E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(358) Romania						
ISC	**X**	**11 18 59 59.7**±.23	**45.72N**±.023	**26.73E**±.028	**115**±3.3	**4.4b**	**183**	**0-118**
ISK	X	11 18 59 56.1	45.81N	26.50E	10	4.3D		¶97x1923
MOS	X	11 18 59 59.6	45.7N	26.8E	114	4.7b		
BJI	X	11 18 59 59.8	45.80N	26.70E	118	4.8b		
NEIC	X	11 18 59 59.8	45.75N	26.71E	119	4.3b		
BUC	X	11 19 00 00.4	45.77N	26.76E		4.8D		
EIDC	X	11 19 00 01.6	45.9N	26.7E	113	4.1b		
PDG	X	11 19 00 04.4	46.0N	26.0E	120	4.1L		
THE	X	11 19 00 26.6	43.7N	25.8E	130	4.1L		
MOS		Felt I=IV MSK at Kishinev.						
NEIC		Felt at Bucharest. Also felt I=IV MSK at Chisinau, Moldova.						
		(377) Spain						
ISC	**X**	**11 19 23 59**±1.9	**38.86N**±.095	**0.4W**±.25	**21**		**5**	**0-3**
MDD	X	11 19 23 58.8	38.88N	0.27W	21	2.8		¶97x1926
NEIC	X	11 19 23 59.7	38.81N	0.60W	10			
MDD		I=II−III at Villa Longa						
NEIC		mbLg2.8(MDD). Poor solution.						
NEIC		Felt I=II MM in the Gandia area.						
		(391) Albania						
ISC	**X**	**11 19 50 04.6**±.75	**40.66N**±.027	**19.77E**±.030	**0**±6.1	**3.9b**	**104**	**0-123**
NEIC	X	11 19 50 00.4	40.19N	19.54E	5	3.8b		¶97x1931
EIDC	X	11 19 50 02.7	40.3N	19.9E	0	3.9b,4.0L		
ROM	X	11 19 50 03.1	40.6N	20.4E	10	4.2D		
TIR	X	11 19 50 04.9	40.64N	19.95E	4	3.7L		
PDG	X	11 19 50 05.9	40.6N	19.7E	11	4.1L,4.1D		
THE	X	11 19 50 06.5	40.7N	19.8E	0	3.8L		
LDG	X	11 19 50 10.4	41.7N	20.5E		4.2L		
ATH	X	11 19 50 13.3	40.48N	20.34E	22	4.0L		
NEIC		Less reliable solution.						
TIR		Felt I=IV MSK department of Berati						
		(266) Molucca Passage						
ISC	**X**	**12 04 09 35.9**±.62	**1.77N**±.025	**126.42E**±.037	**62**±6.0	**5.2b**	**186**	**2-165**
BJI	X	12 04 09 35.0	1.79N	126.40E	57	5.3b,4.3s		¶97x1984
MOS	X	12 04 09 35.7	1.8N	126.4E	57	5.5b		
NEIC	X	12 04 09 35.7	1.75N	126.38E	58	5.3b		
EIDC	X	12 04 09 36.4	1.7N	126.4E	50	4.9b		
HRVD	X	12 04 09 39.6±.6	1.99N±.06	126.63E±.11	74±5.9			
NEIC		Mw5.2(HRV)						
NEIC		Felt I=II MM at Bitung and Manado, Indonesia.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c30; Mantle waves: s1,c1; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.30±.63; $M_{\theta\theta}$−5.56±.69; $M_{\phi\phi}$3.26±1.19; $M_{r\theta}$1.53±.67; $M_{r\phi}$1.94±.70; $M_{\theta\phi}$−3.70±.70. Principal Axes: T 5.26,Plg27°,Azm255°; N 2.11,Plg60°,Azm46°; P −7.37,Plg12°,Azm159°. Best double couple: M0 6.3×10^{16}Nm, NP1:φS294°,δ62°,λ169°. NP2:φS29°,δ81°,λ28°.						
		(472) New York State						
ISC	**X**	**12 08 28 20.3**±.70	**44.92N**±.048	**74.50W**±.051	**2**±8.3		**24**	**0-4**
OTT	X	12 08 28 21.5	44.9N	74.5W	18	3.1N		¶97x2013
NEIC	X	12 08 28 22.3	44.91N	74.55W	14			
OTT		Adirondacks Mts, N.Y.20km southeast from Cornwall, Ontario. Felt in Cornwall and Malone, N.Y.						
NEIC		MD2.9(PAL), After PAL.						
		(381) Central Italy						
ISC	**X**	**12 09 48 31.5**±.98	**43.02N**±.037	**12.91E**±.067	**12**±7.5		**28**	**0-7**
ROM	X	12 09 48 30.2	43.0N	13.0E	2	3.3D		¶97x2019
NEIC	X	12 09 48 31.1	43.03N	12.90E	10			
LDG	X	12 09 48 31.3	42.9N	13.1E		3.3L		
NEIC		ML3.6(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**12 11 08 35.7**±.54	**42.90N**±.014	**12.90E**±.014	**4**±3.9	**5.1b,5.0s**	**475**	**0-150**
ROM	X	12 11 08 35.3	42.9N	13.0E	5	4.7D		¶97x2028
BJI	X	12 11 08 36.3	42.73N	12.48E	27	5.3b,5.4s		
NEIC	X	12 11 08 36.3	42.90N	12.90E	10	5.2b,4.9s		
MOS	X	12 11 08 36.5	43.0N	13.0E	10	5.7b,5.0s		
LDG	X	12 11 08 37.6	42.8N	13.1E		5.0L		
HRVD	X	12 11 08 41.6±.5	42.31N±.11	13.29E±.11	15			
PDG	X	12 11 08 41.9	42.7N	13.2E	11	5.1L,5.2D		
EIDC	X	12 11 08 42.5	43.0N	12.9E	38	4.6b,4.6L		
STR	X	12 11 08 45.9	43.22N	12.26E	10	5.2L		
NEIC		Mw5.3(HRV), ML5.3(VIE)						
NEIC		ML 5.2 (FUR). Additional damage I=VII MCS in the epicentral area.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c30; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.63±.69; $M_{\theta\theta}$0.83±.71; $M_{\phi\phi}$4.79±.55; $M_{r\theta}$5.14±1.88; $M_{r\phi}$0.61±2.09; $M_{\theta\phi}$−4.90±.77. Principal Axes: T 8.55,Plg11°,Azm51°; N 0.58, Plg33°,Azm314°; P −9.13,Plg55°,Azm157°. Best double couple: M0 8.8×10^{16}Nm, NP1: φS175°,δ45°,λ−39°. NP2:φS295°,δ63°,λ−127°.						
		(381) Central Italy						
ISC	**X**	**12 11 12 29.8**±.88	**42.89N**±.034	**12.84E**±.056	**9**±6.6	**4.0b**	**47**	**0-81**
ROM	X	12 11 12 28.9	42.9N	13.0E	4	3.7D		¶97x2030
STR	X	12 11 12 30.2	42.80N	13.00E	10	4.4L		
LDG	X	12 11 12 30.2	42.8N	13.0E		4.4L		
NEIC	X	12 11 12 30.8	43.01N	12.75E	10	3.9b		
EIDC	X	12 11 12 34.1	43.1N	13.6E	0	4.0b,4.1L		
NEIC		Felt I=V MCS in the epicentral area.						
		(36) Northern California						
ISC	**X**	**12 11 50 56**±2.3	**40.54N**±.079	**122.2W**±.12	**5**±21		**7**	**0-3**
NEIC	X	12 11 50 57.1	40.49N	122.22W	19			¶97x2034
NEIC		MD2.8(GM). Felt, After GM−P.						
NEIC		Felt in the Redding area.						
		(381) Central Italy						
ISC	**X**	**12 12 59 58.7**±.93	**42.85N**±.035	**13.10E**±.060	**4**±7.8	**3.9b**	**51**	**0-72**
ROM	X	12 12 59 58.1	42.9N	13.0E	5	3.7D		¶97x2046
NEIC	X	12 12 59 59.6	42.86N	13.06E	10			
EIDC	X	12 13 00 02.0	43.0N	13.4E	0	3.8b,3.9L		
NEIC		ML4.0(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**12 18 12 04.4**±.86	**42.91N**±.027	**12.94E**±.037	**3**±7.1	4.1b	**88**	**0-72**
ROM	X	12 18 12 03.3	42.9N	13.0E	2	3.8D		¶97x2084
LDG	X	12 18 12 05.1	42.8N	13.1E		3.7L		
NEIC	X	12 18 12 05.1	42.90N	12.95E	10			
EIDC	X	12 18 12 06.3	43.0N	13.1E	0	3.9L,3.5S		
NEIC		ML4.3(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**12 19 47 51**±1.0	**42.87N**±.037	**12.91E**±.077	**12**±8.6		**30**	**0-7**
NEIC	X	12 19 47 48.6	42.66N	12.95E	10			¶97x2091
ROM	X	12 19 47 49.9	42.9N	13.0E	5	3.4D		
LDG	X	12 19 47 51.1	42.7N	13.0E		3.4L		
NEIC		ML3.6(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**12 20 15 29.1**±.76	**42.86N**±.030	**12.89E**±.049	**9**±6.1	**4.0b**	**64**	**0-72**
ROM	X	12 20 15 28.3	42.9N	13.0E	5	3.6D		¶97x2095
LDG	X	12 20 15 29.0	42.8N	13.1E		3.7L		
NEIC	X	12 20 15 29.1	42.86N	12.87E	10			
EIDC	X	12 20 15 30.5	42.8N	13.3E	0	3.8b,3.6L		
NEIC		ML4.0(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**12 21 31 07.7**±.67	**42.88N**±.023	**12.93E**±.025	**9**±5.2	**4.1b**,3.4s	**145**	**0-88**
BJI	X	12 21 31 03.6	42.34N	12.29E	20	4.8b		¶97x2109
ROM	X	12 21 31 06.5	42.9N	13.0E	5	3.9D		
LDG	X	12 21 31 07.1	42.9N	13.3E		3.9L		
NEIC	X	12 21 31 07.4	42.86N	12.97E	10	4.6b		
EIDC	X	12 21 31 08.6	42.9N	13.3E	0	3.8b,3.5s		
PDG	X	12 21 31 17.8	42.7N	13.7E	10	4.0L		
NEIC		ML4.5(VIE), ML4.1(FUR)						
NEIC		Felt I=IV−V MCS in the epicentral area (after KIV)						
		(381) Central Italy						
ISC	**X**	**12 21 52 35.2**±.75	**42.93N**±.022	**12.92E**±.026	**4**±6.0	**4.4b**	**144**	**0-75**
ROM	X	12 21 52 34.3	42.9N	13.0E	5	3.8D		¶97x2112
LDG	X	12 21 52 34.8	42.8N	13.2E		3.9L		
EIDC	X	12 21 52 35.1	42.8N	12.8E	0	3.7L,3.9b		
NEIC	X	12 21 52 35.6	42.92N	12.92E	10	4.6b		
BJI	X	12 21 52 36.6	43.61N	12.80E	6	4.7b		
PDG	X	12 21 52 37.6	42.7N	12.9E	11	4.1L		
NEIC		ML4.4(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**12 23 48 51.8**±.93	**42.93N**±.034	**12.94E**±.071	**9**±7.6		**29**	**0-8**
ROM	X	12 23 48 50.8	42.9N	13.0E	4	3.2D		¶97x2128
LDG	X	12 23 48 52.6	42.9N	13.2E		3.1L		
NEIC	X	12 23 48 53.8	43.06N	12.78E	10			
NEIC		ML3.2(VIE), Less reliable solution.						
NEIC		Felt I=III MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**13 03 26 12.1**±.85	**42.97N**±.027	**12.90E**±.044	**2**±7.1	3.5b	**69**	**0-71**
ROM	X	13 03 26 11.0	43.0N	13.0E	3	3.6D		¶97x2153
LDG	X	13 03 26 12.3	42.9N	13.2E		3.5L		
NEIC	X	13 03 26 12.7	42.97N	12.88E	10			
EIDC	X	13 03 26 13.9	43.0N	13.5E	0	3.7L,3.4b		
NEIC		ML4.0(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**13 04 17 05.3**±.80	**42.85N**±.032	**12.93E**±.050	**6**±7.3		**62**	**0-8**
ROM	X	13 04 17 04.3	42.9N	13.0E	5	3.6D		¶97x2159
LDG	X	13 04 17 05.6	42.9N	13.2E		3.6L		
NEIC	X	13 04 17 05.7	42.87N	12.91E	10			
NEIC		ML4.0(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**13 06 43 24.7**±.83	**42.86N**±.034	**12.95E**±.063	**6**±7.6		**36**	**0-8**
ROM	X	13 06 43 23.9	42.9N	13.0E	5	3.5D		¶97x2170
NEIC	X	13 06 43 25.3	42.87N	12.91E	10			
LDG	X	13 06 43 26.6	42.9N	13.1E		3.4L		
NEIC		ML3.8(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(160) Off east coast of North Island, N.Z.						
ISC	**X**	**13 07 18 00.3**±.87	**37.81S**±.071	**177.7E**±.13	**157**±5.6	**4.3b**	**60**	**0-164**
EIDC	X	13 07 17 51.6	37.1S	178.1E	70	4.3b,4.5L		¶97x2172
NEIC	X	13 07 17 53.9	37.34S	177.88E	100	4.5b		
WEL	X	13 07 18 01.1	37.25S	177.58E	103	5.0L		
NEIC		Less reliable solution.						
WEL		Felt Opotiki district.						
		(230) Near south coast of Honshū						
ISC	**X**	**13 07 55 06**±1.2	**34.98N**±.061	**139.1E**±.15	**11**±7.6		**8**	**0-2**
JMA	X	13 07 55 06.9±.0	34.98N±.00	139.11E±.00	7±1	3.5		¶97x2181
JMA		Felt I=II J1						
JMA		Nodal plane solution: N84, Score 96%. NP1:φS100°,δ61°,λ151°. NP2:φS206°,δ64°,λ33°. Principle axes: T Plg41°,Azm64°; N Plg49°,Azm240°; P Plg2°,Azm332°.						
		(381) Central Italy						
ISC	**X**	**13 09 10 21.0**±.43	**42.84N**±.031	**12.90E**±.057	**10**		**49**	**0-7**
ROM	X	13 09 10 19.4	42.9N	13.0E	5	3.5D		¶97x2195
LDG	X	13 09 10 21.0	42.8N	13.1E		3.7L		
NEIC	X	13 09 10 21.1	42.86N	12.87E	10			
NEIC		ML3.8(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**13 11 01 46.3**±.80	**42.92N**±.023	**12.95E**±.023	**3**±6.4	**3.7b**	**163**	**0-128**
ROM	X	13 11 01 44.9	42.9N	13.1E	3	4.0D		¶97x2205
LDG	X	13 11 01 46.2	42.8N	13.2E		4.1L		
NEIC	X	13 11 01 46.6	42.90N	13.00E	10	4.2b		
EIDC	X	13 11 01 47.3	43.0N	13.4E	0	4.2L,3.5s		

MOS X 13 11 01 48.4 43.1N 13.1E 10 5.0b
PDG X 13 11 01 50.6 42.5N 13.0E 10 4.1L
STR X 13 11 01 54.5 43.27N 12.61E 10 4.3L
NEIC M_L4.5(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC X 13 12 46 36.3±.94 42.86N±.036 13.05E±.058 2±8.5 46 0-8
ROM X 13 12 46 35.9 42.9N 13.0E 5 3.6D **¶97x2222**
NEIC X 13 12 46 37.7 42.93N 13.00E 10
LDG X 13 12 46 37.9 42.9N 13.2E 3.8L
NEIC M_L4.1(VIE), Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC X 13 12 49 42.5±.64 42.86N±.040 12.91E±.077 18±9.1 22 0-7
LDG X 13 12 49 41.0 42.7N 13.2E 3.4L **¶97x2224**
ROM X 13 12 49 41.2 42.9N 13.0E 5 3.3D
NEIC X 13 12 49 43.6 43.04N 12.75E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 13 13 09 21.2±.70 42.89N±.022 12.90E±.023 8±5.4 4.4b,4.6s 166 0-84
BJI X 13 13 09 18.7 42.94N 12.69E 5 4.6b **¶97x2228**
ROM X 13 13 09 19.8 42.9N 13.0E 4 4.0D
NEIC X 13 13 09 21.1 42.89N 12.92E 10 4.5b
EIDC X 13 13 09 22.4 43.0N 13.3E 0 4.0b,4.2L
LDG X 13 13 09 23.0 42.9N 13.1E 4.3L
STR X 13 13 09 28.0 43.17N 12.53E 10 4.4L
PDG X 13 13 09 28.7 42.6N 13.4E 10 4.0L
NEIC M_L4.9(VIE), M_L4.5(FUR)
NEIC Additional damage at Foligno. Felt at Rome.

(368) Southern Greece

ISC X 13 13 39 36.0±.78 36.35N±.020 22.10E±.014 13±4.6 6.2b,6.5s 819 1-158
EIDC X 13 13 39 34.6 36.5N 22.4E 0 6.1b,6.5s **¶97x2232**
BJI X 13 13 39 36.2 36.39N 22.21E 25 6.3b,6.5s
NEIC X 13 13 39 37.4 36.38N 22.07E 24 6.2b,6.6s
MOS X 13 13 39 38.5 36.4N 22.1E 33 6.5b,6.4s
ATH X 13 13 39 39.2 36.41N 22.18E 6 5.6L
PDG X 13 13 39 39.3 36.3N 21.0E 10 6.3D
THE X 13 13 39 40.0 36.4N 22.2E 13 5.8L
CSEM X 13 13 39 41.9 36.23N 21.95E 30
HRVD X 13 13 39 46.6±.1 36.10N±.01 22.04E±.02 44±.7
NEIC Ms6.7(BRK), Mw6.5(CSEM). Damage.
NEIC Radiated energy from the P−wave first−motion solution: 4.8±0.9×10^{13}Nm/25
NEIC Mw 6.4 (GS), 6.4 (HRV). Me 6.2 (GS). Minor damage in southern Peloponnisos. Felt strongly at Athens. Felt throughout Greece, including Crete.
NEIC Moment tensor solution: s48, scale 10^{18}Nm; M_{rr}2.51; $M_{\theta\theta}$−2.57; $M_{\phi\phi}$0.06; $M_{r\theta}$2.78; $M_{r\phi}$−1.62; $M_{\theta\phi}$0.44. Depth 26km; Principal axes: T 4.16,Plg62°,Azm42°; N −0.08,Plg10°, Azm292°; P −4.08,Plg25°,Azm197°. Best double couple: $M_0$4.1×10^{18}Nm; NP1:ϕ_S264°,δ22°, λ61°. NP2:ϕ_S115°,δ71°,λ101°.
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S119°,δ71°,λ80°. NP2:ϕ_S327°,δ21°,λ117°. Principal axes: T Plg63°,Azm13°; P Plg25°,Azm217°. Complex earthquake, with at least three larger events occurring about 1, 3 and 5 seconds after the onset. Depth from synthetics of broadband displacement seismograms based on second event.
ATH Felt in the regions of Messinia, I=VI−VII MCS at Koroni, VI at Vasilitsi, V−VI at Messini, Strephi, Platy, Petalidi, Kampos, Thouria, Avrami, V at Zevgolateio, Kyparissia, Philiatra, Achladochori, Androusa, Vasiliko, Iklaina, Kopanaki, Kremmydi, Maniaki, Medousa, Nea−Koroni, Oichalia, Pyrgos, Pilalistra, Proastio, Sidirokastro, Zerbisia, Psari, Methoni, Eva, Kaplani, IV−V at Pylos, Spilia, Arphara, Ampheia, IV at Gargalianoi, Aetos, Dori, Kephalovryso; in Lakonia, V−VI at Vrondamas, Skala, Stephania, V at Gytheio, Agios−Ioannis, Amykles, Gerolimenas, Elos, Karvelas, Konakia, Oitylos, IV−V at Sparti, Kato−Glykovrysi, Lampokampos, Longastra, Elaia, IV at Molaoi, Velies, Agios−Nikolaos−Voion, Agios−Dimitrios, Megali−Spilia, Anogeia, Vasaras, Vresthena, Geraki, Daimonia, Daphni, Elliniko, Elaphonisos, Kastoreio, Karyes, Loukonikos, Magoula, Mystras, Niata, Xirokampi , Papadianika, Reichea, Sykea, Phoinikio Katavothra, III at Apidea, Kyparrisio; in Arkadia IV at Astros, Megalopoli, Leonidio, Kollines, Kato−Doliana, Dimitsana, Tropaia; in Eleia, IV at Andravida, Zacharo, Krestena, Kardamas, Myrsini, Pelopio, Tragano, Savalia, Chavario, III at Gastouni, Goumero; in Argolida, IV at Nafplio, Kranidi, Ermioni, Arachnaio, Koutsopodi, Nea−Kios, III at Lygourio.
ATH Felt in the regions of Achaia I=IV MCS at Diakophto, Kato−Kleitoria, III at Daphni, Rododaphni, Lakkopetra, Lousika, Chalandritsa, Temeni, Vrachnaika; in Korinthia, IV at Archaia−Korinthos, Xylokastro, Nemea, Isthmia, Chiliomodi, Examilia, Velo, Athikia, III at Zevgolateio; in Aitoloakarnania, IV at Neochori, Astakos, Aitoliko, III at Agrinio, Amphilochia, Panaitolio, Nafpaktos; in Phokida, IV at Chryso, III at Galaxeidi, Desphina, Delphoi; in Boeotia, IV at Thespies, III at Agios−Ioannis, Antikyra; in Attiki, IV at Megara, Kiphisia, III at Athina, Kamatero; in Phthiotida, III at Kamena−Vourla, Agios−Konstantinos; in Karditsa, III at Karditsa, Mataranka, Mouzaki, Agnantero; in Pieria, III at Moschochori; and on the islands of Crete, IV at Khania, Perivoli, Nerokouros, Mournies, Kissamos, Kalyves, Daratsos, III at Souda, Sternes; on Herakleio, III at Tympaki, Nea−Alikarnasos; on Zakynthos, IV at Pantokratoras, Mouzaki; on Euobea, III at Istiaia, Karystos, Kymi, Lythakia; on Kea, III at Kea; on Naxos, III at Naxos.
CSEM Mw6.5. M_0=7.3×10^{18}Nm. Fault plane solution NP1:ϕ_S150°,δ70°,λ105°. NP2:ϕ_S292°,δ25°, λ55°. Principal Axes: T Plg62°,Azm83°; N Plg14°,Azm325°; P Plg24°,Azm228°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c116; Mantle waves: s30,c53; Half duration: 1s0. Moment tensor: Scale 10^{18}Nm; M_{rr}2.90±.04; $M_{\theta\theta}$−2.51±.04; $M_{\phi\phi}$−0.39±.04; $M_{r\theta}$3.36±.08; $M_{r\phi}$−1.84±.08; $M_{\theta\phi}$1.60±.04. Principal Axes: T 4.71,Plg65°,Azm29°; N 0.47,Plg0°,Azm298°; P −5.19,Plg25°,Azm208°. Best double couple: $M_0$4.9×10^{18}Nm, NP1:ϕ_S298°,δ20°,λ89°. NP2:ϕ_S119°,δ70°,λ90°.

(381) Central Italy

ISC X 13 18 31 26.7±.82 42.86N±.031 12.95E±.048 5±7.3 56 0-8
NEIC X 13 18 31 24.5 42.68N 13.10E 10 **¶97x2264**
ROM X 13 18 31 26.1 42.9N 13.0E 5 3.8D
LDG X 13 18 31 26.4 42.8N 13.2E 3.8L
NEIC M_L4.1(VIE), Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC X 13 18 38 01.0±.89 42.98N±.035 12.77E±.066 10±7.1 40 0-7
NEIC X 13 18 37 58.0 42.76N 12.92E 10 **¶97x2265**
ROM X 13 18 38 00.6 43.0N 12.9E 9 3.4D
LDG X 13 18 38 05.7 43.0N 12.5E 3.3L
NEIC M_L3.4(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 13 18 47 48.0±.92 42.85N±.030 12.90E±.042 12±7.3 3.7b 78 0-75
ROM X 13 18 47 46.9 42.9N 13.0E 5 3.5D **¶97x2266**
NEIC X 13 18 47 47.7 42.86N 12.88E 10
EIDC X 13 18 47 48.8 42.8N 13.1E 0 3.7b,4.2L
LDG X 13 18 47 49.1 42.9N 13.0E 3.7L
NEIC M_L4.0(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC X 13 18 57 52±1.2 42.89N±.037 12.88E±.069 14±9.4 28 0-7
LDG X 13 18 57 49.3 42.8N 13.3E 3.3L **¶97x2267**
ROM X 13 18 57 50.2 42.9N 13.0E 5 3.4D
NEIC X 13 18 57 52.3 42.95N 12.75E 10
NEIC M_L3.3(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 13 21 12 57±1.1 42.93N±.031 12.86E±.046 11±8.9 57 0-8
NEIC X 13 21 12 54.8 42.82N 12.91E 10 **¶97x2286**
ROM X 13 21 12 55.5 43.0N 12.9E 5 3.5D
LDG X 13 21 12 55.7 42.9N 13.2E 3.6L
NEIC M_L4.0(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 13 21 25 22±1.1 42.93N±.036 12.83E±.058 9±9.8 42 1-7
NEIC X 13 21 25 20.6 42.83N 12.87E 10 **¶97x2290**
ROM X 13 21 25 21.2 43.0N 12.9E 6 3.5D
LDG X 13 21 25 21.4 42.9N 13.1E 3.6L
NEIC M_L3.6(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(385) Straits of Gibraltar

ISC X 13 21 50 16±1.7 36.02N±.047 3.02W±.057 10±16 53 1-12
NEIC X 13 21 50 16.5 35.97N 3.15W 10 **¶97x2292**
MDD X 13 21 50 18.0 36.01N 3.02W 9 3.8
LIS X 13 21 50 18 35.97N 3.20W 3.3L
LDG X 13 21 50 22.2 36.1N 3.2W 3.7L
RBA X 13 21 50 29.0 35.28N 3.01W 30 3.7D
NEIC mbLg4.1(MDD)
NEIC Felt I=III MSK at Melilla and II MM on Isla de Alboran, Spain.

(381) Central Italy

ISC X 13 23 35 21.4±.84 42.92N±.036 12.80E±.078 5±8.4 28 0-7
ROM X 13 23 35 20.7 43.0N 12.9E 5 3.3D **¶97x2305**
NEIC X 13 23 35 21.1 42.96N 12.84E 10
LDG X 13 23 35 24.9 42.9N 12.7E 2.9L
NEIC M_L3.3(VIE)
NEIC Felt I=III MCS in the epicentral area.

(243) Taiwan region

ISC X 14 04 42 14±2.5 24.35N±.063 122.1E±.25 19 11 1-1
TAP X 14 04 42 14.9 24.41N 121.94E 19 3.3L **¶97x2340**
TAP Felt I=II J

(381) Central Italy

ISC X 14 06 37 23.5±.68 42.87N±.045 12.88E±.091 19±9.3 19 0-7
ROM X 14 06 37 22.2 42.9N 13.0E 5 3.3D **¶97x2348**
NEIC X 14 06 37 25.4 43.14N 12.66E 10
LDG X 14 06 37 28.2 43.0N 12.6E 3.3L
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(36) Northern California

ISC X 14 07 25 58±1.0 38.51N±.068 122.6W±.13 9 6 1-1
NEIC X 14 07 25 58.0 38.51N 122.59W 9 **¶97x2354**
NEIC M_D2.4(GM). Felt, After GM−P.
NEIC Felt in the epicentral area.

(381) Central Italy

ISC X 14 07 54 05.7±.41 43.01N±.031 12.64E±.055 7 45 1-7
LDG X 14 07 54 03.4 42.8N 13.1E 3.6L **¶97x2358**
ROM X 14 07 54 04.9 43.1N 12.8E 7 3.4D
NEIC X 14 07 54 05.7 43.01N 12.66E 10
NEIC M_L3.7(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 14 09 40 00±1.0 42.85N±.034 12.93E±.064 12±8.4 42 0-7
NEIC X 14 09 39 58.8 42.80N 12.98E 10 **¶97x2368**
ROM X 14 09 39 59.2 42.9N 13.0E 5 3.3D
LDG X 14 09 40 02.3 42.9N 12.9E 3.6L
NEIC M_L3.8(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(171) South of Fiji

ISC X 14 09 53 11±1.1 22.14S±.033 176.72W±.030 105±10 6.7b 970 9-166
EIDC X 14 09 53 16.4 22.1S 176.5W 126 6.0b **¶97x2370**
BJI X 14 09 53 17.6 21.85S 176.67W 161 6.4b
NEIC X 14 09 53 18.1 22.10S 176.77W 167 6.7b
MOS X 14 09 53 20.5 21.5S 176.8W 170 6.8b
HRVD X 14 09 53 32.7±.1 21.94S±.01 176.15W±.01 166±1.2
NEIC Mw7.8(GS), Me7.3(GS). Felt.
NEIC Radiated energy from the Harvard centroid solution: 1.8±0.2×10^{15}Nm/22
NEIC Mw 7.7 (HRV). Mb 7.0 (BRK). Felt at Wellington, New Zealand. Mo=5.3×10^{20}Nm (PPT). Complex earthquake, with two events occurring about 6 and 12 seconds after the onset, observed on broadband displacement seismograms.
NEIC Moment tensor solution: s43, scale 10^{20}Nm; M_{rr}−2.56; $M_{\theta\theta}$1.64; $M_{\phi\phi}$0.92; $M_{r\theta}$−0.15; $M_{r\phi}$−4.28; $M_{\theta\phi}$2.53. Depth 168km; Principal axes: T 5.20,Plg25°,Azm126°; N 0.49,Plg27°, Azm23°; P −5.69,Plg52°,Azm252°. Best double couple: $M_0$5.4×10^{20}Nm; NP1:ϕ_S258°,δ32°, λ−31°. NP2:ϕ_S15°,δ75°,λ−118°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c92; Mantle waves: s66,c183; Half duration: 17s9. Moment tensor: Scale 10^{20}Nm; M_{rr}−1.29±.02; $M_{\theta\theta}$0.74±.01; $M_{\phi\phi}$0.56±.01; $M_{r\theta}$−0.98±.01; $M_{r\phi}$−4.03±.02; $M_{\theta\phi}$1.30±.01. Principal Axes: T 4.47,Plg35°,Azm119°; N 0.03,Plg15°,Azm19°; P −4.50,Plg51°,Azm269°. Best double couple: $M_0$4.5×10^{20}Nm, NP1:ϕ_S257°,δ17°,λ−30°. NP2:ϕ_S16°,δ81°,λ−105°.
WEL Felt I=IV MM at Raoul Island

(238) Ryūkyū Islands

ISC X 14 10 43 48.9±.83 28.2N±.12 129.5E±.17 27±12 8 0-3
JMA X 14 10 43 48.6±.0 28.22N±.01 129.47E±.01 37±1 3.7 **¶97x2381**
JMA Felt I=II J1

(244) Taiwan

ISC X 14 11 04 04.0±.42 23.97N±.048 121.64E±.053 80 28 0-5
TAP X 14 11 04 04.1 23.96N 121.62E 20 4.1L **¶97x2384**
JMA X 14 11 04 04.8±.3 24.02N±.04 121.68E±.02 80 3.5
BJI X 14 11 04 09.2 24.23N 121.23E 123
TAP Felt I=II J Hwalien

(381) Central Italy

ISC X 14 15 23 09.3±.53 42.95N±.013 12.90E±.014 3±3.7 5.3b,5.6s 570 0-150
LEDBW X 14 15 23 08.6 42.21N 13.27E 10 5.3L **¶97x2426**
ROM X 14 15 23 09.1 42.9N 13.0E 5 5.5D
EIDC X 14 15 23 09.8 42.9N 12.9E 0 5.0b,5.6s
BJI X 14 15 23 09.9 43.21N 12.88E 8 5.5b,6.0s
MOS X 14 15 23 10.2 43.0N 12.9E 10 5.9b,5.6s
NEIC X 14 15 23 10.2 42.96N 12.89E 10 5.4b,5.5s
LDG X 14 15 23 11.2 42.9N 13.1E 5.3L
PDG X 14 15 23 15.1 42.8N 13.2E 12 5.4D
STR X 14 15 23 17.3 43.22N 12.51E 10 5.5L
NEIC M_L5.7(VIE), M_L5.6(FUR). Casualties
NEIC One person injured and additional damage I=VIII MCS in the Assisi-Perugia-Foligno area. Slight damage at Rome. Felt as far south as Naples.

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
		(381) Central Italy						
ISC	**X**	**14 15 34 03.9**±.98	**42.86N**±.032	**12.85E**±.053	**10**±8.1		**46**	**0-7**
ROM	X	14 15 34 02.0	42.9N	13.0E	5	3.4D		¶97x2428
NEIC	X	14 15 34 03.2	42.86N	12.90E	10			
LDG	X	14 15 34 03.8	42.8N	13.1E		3.7L		
STR	X	14 15 34 10.6	43.18N	12.60E	10	3.8L		
NEIC		M_L3.7(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 15 52 52.9**±.64	**42.91N**±.036	**12.88E**±.067	**17**±8.6		**48**	**0-8**
NEIC	X	14 15 52 49.8	42.75N	13.01E	10			¶97x2433
LDG	X	14 15 52 51.7	42.8N	13.1E		3.7L		
ROM	X	14 15 52 52.2	42.9N	12.9E	8	3.3D		
STR	X	14 15 53 01	43.20N	12.26E	10	3.8L		
NEIC		M_L3.9(VIE), Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 16 01 36**±1.1	**42.94N**±.039	**12.86E**±.080	**14**±8.0		**27**	**0-7**
ROM	X	14 16 01 34.7	42.9N	13.0E	5	3.2D		¶97x2434
NEIC	X	14 16 01 36.9	43.09N	12.72E	10			
LDG	X	14 16 01 37.3	42.9N	12.9E		3.4L		
NEIC		M_L3.6(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(218) Near east coast of Kamchatka						
ISC	**X**	**14 16 09 01.9**±.89	**56.30N**±.052	**162.58E**±.081	**30**±6.7	**4.6b**	**72**	**0-146**
KRSC	X	14 16 08 56.8	56.38N	163.36E	14	5.1b		¶97x2439
MOS	X	14 16 08 58.9	56.3N	162.8E	10	4.8b		
BJI	X	14 16 09 01.4	56.59N	161.99E	17	4.9b		
NEIC	X	14 16 09 01.8	56.36N	162.36E	33	4.7b		
EIDC	X	14 16 09 02.4	56.2N	162.6E	24	4.3b,4.8L		
KRSC		Felt I=III−IV MSK Myth Afrika, IV Ust−Kamchatsk, IV−V Krutoberegovo						
		(381) Central Italy						
ISC	**X**	**14 16 15 34**±1.0	**42.87N**±.033	**12.95E**±.054	**11**±8.3		**59**	**0-8**
NEIC	X	14 16 15 31.2	42.68N	13.06E	10			¶97x2442
ROM	X	14 16 15 33.0	42.9N	13.0E	5	3.4D		
LDG	X	14 16 15 33.6	42.8N	13.2E		3.8L		
STR	X	14 16 15 38.5	43.08N	12.72E	10	3.9L		
NEIC		M_L4.2(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 16 24 42.0**±.74	**42.93N**±.024	**12.80E**±.024	**10**±5.9	3.8b	**147**	**0-75**
BJI	X	14 16 24 40.2	42.90N	12.70E	10			¶97x2444
ROM	X	14 16 24 41.1	42.9N	12.9E	7	3.7D		
LDG	X	14 16 24 41.8	42.9N	13.0E		4.2L		
NEIC	X	14 16 24 42.2	42.94N	12.75E	10	3.9b		
EIDC	X	14 16 24 42.4	42.8N	13.4E	0	4.1L,3.9b		
PDG	X	14 16 24 45.6	42.4N	13.0E	10	4.1L		
STR	X	14 16 24 49.1	43.25N	12.36E	10	4.2L		
NEIC		M_L4.5(VIE)						
NEIC		ML 4.1 (FUR). Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 16 36 44.7**±.33	**42.92N**±.028	**12.91E**±.043	**5**		**70**	**0-8**
ROM	X	14 16 36 43.6	42.9N	13.0E	5	3.6D		¶97x2446
NEIC	X	14 16 36 46.3	42.93N	12.79E	10			
LDG	X	14 16 36 46.9	42.9N	13.0E		3.8L		
STR	X	14 16 36 54.5	43.26N	12.27E	10	3.8L		
NEIC		M_L3.9(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 16 39 16.2**±.68	**42.87N**±.037	**12.93E**±.070	**16**±9.2		**41**	**0-7**
ROM	X	14 16 39 14.8	42.9N	13.0E	5	3.4D		¶97x2447
NEIC	X	14 16 39 15.7	42.87N	12.85E	10			
LDG	X	14 16 39 16.0	42.8N	13.1E		3.8L		
STR	X	14 16 39 23.9	43.21N	12.46E	10	3.9L		
NEIC		M_L4.0(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 17 42 01.2**±.60	**42.90N**±.029	**12.88E**±.038	**17**±7.4		**92**	**0-20**
ROM	X	14 17 42 00.1	42.9N	12.9E	8	3.7D		¶97x2460
LDG	X	14 17 42 00.1	42.9N	13.2E		3.7L		
NEIC	X	14 17 42 00.9	42.97N	12.84E	10			
STR	X	14 17 42 08.8	43.21N	12.29E	10	4.0L		
NEIC		M_L4.4(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 19 25 12**±1.3	**42.88N**±.045	**12.98E**±.099	**13**±10		**22**	**0-7**
ROM	X	14 19 25 11.3	42.9N	13.0E	5	3.0D		¶97x2475
LDG	X	14 19 25 11.9	42.8N	13.2E		3.1L		
NEIC	X	14 19 25 13.8	42.89N	12.79E	10			
NEIC		M_L3.1(LDG), Less reliable solution.						
NEIC		Felt I=III MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 19 34 19**±1.1	**42.86N**±.026	**12.97E**±.033	**13**±9.0	3.8b	**112**	**0-75**
ROM	X	14 19 34 17.1	42.9N	13.0E	3	3.7D		¶97x2478
LDG	X	14 19 34 18.0	42.8N	13.3E		3.7L		
NEIC	X	14 19 34 18.9	42.92N	12.92E	10			
EIDC	X	14 19 34 19.9	42.9N	13.4E	0	4.0L,3.6b		
STR	X	14 19 34 23.1	43.03N	12.73E	10	4.1L		
NEIC		M_L4.2(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 19 44 33.3**±.82	**42.91N**±.046	**13.0E**±.10	**22**±8.9		**25**	**0-7**
LDG	X	14 19 44 31.9	42.8N	13.3E		3.2L		¶97x2480
ROM	X	14 19 44 32.5	42.9N	13.0E	5	3.2D		
NEIC	X	14 19 44 33.0	43.07N	13.00E	10			
NEIC		Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 21 33 30**±1.3	**42.89N**±.040	**12.98E**±.084	**12**±11		**25**	**0-7**
ROM	X	14 21 33 29.3	42.9N	13.0E	5	3.3D		¶97x2497
LDG	X	14 21 33 31.3	42.8N	13.1E		3.2L		
NEIC	X	14 21 33 31.7	43.05N	12.85E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 21 41 31**±1.3	**42.91N**±.036	**12.98E**±.065	**12**±10		**29**	**0-7**
LDG	X	14 21 41 30.8	42.8N	13.3E		3.3L		¶97x2501
ROM	X	14 21 41 31.0	42.9N	13.0E	5	3.3D		
NEIC	X	14 21 41 32.2	43.03N	12.95E	10			
NEIC		M_L3.7(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(43) Southern California						
ISC	**X**	**14 22 31 32.8**±.59	**34.11N**±.035	**117.44W**±.039	**1**±6.0	3.3b	**39**	**0-36**
EIDC	X	14 22 31 33.1	33.8N	117.5W	0	3.3b,4.0L		¶97x2508
NEIC	X	14 22 31 33.7	34.11N	117.43W	3			
NEIC		M_L3.9(PAS). Felt, After PAS.						
NEIC		Felt at Fontana and in parts of Riverside County.						
		(381) Central Italy						
ISC	**X**	**14 23 04 47.1**±.82	**42.92N**±.034	**12.82E**±.066	**3**±7.9		**30**	**0-8**
LDG	X	14 23 04 46.2	42.8N	13.3E		3.2L		¶97x2509
ROM	X	14 23 04 46.9	42.9N	12.9E	5	3.1D		
NEIC	X	14 23 04 48.2	42.95N	12.78E	10			
NEIC		M_L3.4(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 23 23 29.7**±.54	**42.96N**±.023	**12.82E**±.022	**16**±6.1	**4.4b**	**167**	**0-75**
ROM	X	14 23 23 28.2	43.0N	12.9E	5	3.9D		¶97x2512
BJI	X	14 23 23 28.4	42.90N	12.90E	10	4.8b		
NEIC	X	14 23 23 28.4	42.93N	12.86E	10	4.3b		
EIDC	X	14 23 23 28.6	42.9N	13.0E	0	4.0L,3.9b		
PDG	X	14 23 23 30.7	43.4N	12.8E	11	4.1L		
LDG	X	14 23 23 32.8	43.0N	12.7E		4.0L		
STR	X	14 23 23 36.8	43.27N	12.32E	10	4.3L		
NEIC		M_L4.7(VIE)						
NEIC		ML 4.2 (FUR). Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**14 23 48 29.5**±.83	**42.87N**±.035	**12.96E**±.065	**6**±7.6		**34**	**0-7**
ROM	X	14 23 48 29.0	42.9N	13.0E	5	3.6D		¶97x2515
NEIC	X	14 23 48 30.1	42.90N	12.94E	10			
LDG	X	14 23 48 31.5	42.9N	13.1E		3.4L		
NEIC		M_L3.7(VIE), Less reliable solution.						
NEIC		Felt I=V MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**15 00 12 26.8**±.93	**42.87N**±.038	**13.01E**±.069	**10**±8.2		**41**	**0-8**
NEIC	X	15 00 12 25.3	42.77N	13.09E	10			¶97x2518
ROM	X	15 00 12 25.9	42.9N	13.0E	3	3.4D		
LDG	X	15 00 12 28.5	42.9N	13.1E		3.3L		
NEIC		M_L3.6(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**15 01 02 52**±1.0	**42.88N**±.034	**12.90E**±.059	**10**±8.3		**45**	**0-8**
NEIC	X	15 01 02 49.8	42.69N	12.98E	10			¶97x2522
ROM	X	15 01 02 50.9	42.9N	13.0E	4	3.4D		
LDG	X	15 01 02 53.0	42.8N	13.0E		3.4L		
NEIC		M_L3.7(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(135) Near coast of Central Chile						
ISC	**X**	**15 01 03 33.0**±.47	**30.89S**±.025	**71.14W**±.035	**54**±4.5	**6.7b,6.8s**	**738**	**2-177**
EIDC	X	15 01 03 26.8	30.9S	71.1W	0	6.4b,7.2s		¶97x2523
GUC	X	15 01 03 31.3	30.77S	71.32W	56	6.8D		
BJI	X	15 01 03 33.4	30.90S	71.20W	58	7.4s		
NEIC	X	15 01 03 33.4	30.93S	71.22W	58	6.8b,6.8s		
MOS	X	15 01 03 34.5	30.9S	71.0W	60	7.0b		
HRVD	X	15 01 03 42.6±.1	31.06S±.01	71.42W±.01	70±.5			
NEIC		Me7.6(GS), Mw7.1(GS). Casualties I=VII MM, landslide/avalanche observed.						
NEIC		Radiated energy from the P−wave first−motion solution: 5.3±1.5×10^{15}Nm/16						
NEIC		Broadband fault plane solution: P waves. NP1:ϕ_S175°,δ85°,λ−120°. NP2:ϕ_S76°,δ30°,λ−10°. Principal axes: T Plg33°,Azm290°; P Plg42°,Azm56°. Two events about 5 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event.						
NEIC		Moment tensor solution: s28, scale 10^{19}Nm; M_{rr}−1.30; $M_{\theta\theta}$−0.29; $M_{\phi\phi}$1.59; $M_{r\theta}$−0.79; $M_{r\phi}$4.55; $M_{\theta\phi}$0.90. Depth 67km; Principal axes: T 4.93,Plg36°,Azm274°; N −0.01,Plg13°, Azm174°; P −4.92,Plg51°,Azm67°. Best double couple: $M_0$4.9×10^{19}Nm; NP1:ϕ_S52°,δ15°, λ−31°. NP2:ϕ_S172°,δ82°,λ−103°.						
NEIC		Mw 7.1 (HRV). Ms 6.7 (BRK). Five people killed at Pueblo Nuevo, one person killed at Coquimbo, one person killed at La Chimba and another died of a heart attack at Punitaqui. More than 300 people injured, 5,000 houses destroyed, 15,700 houses damaged, numerous power and telephone outages, landslides and rockslides in the epicentral region. Some damage I=VII MM at La Serena and VI MM at Ovalle. Felt VI MM at Alto del Carmen and Illapel; V MM at Copiapo, Huasco, San Antonio, Santiago and Vallenar; IV MM at Caldera, Chanaral, Rancagua and Tierra Amarilla; III MM at Talca; II MM at Concepcion and Taltal. Felt as far south as Valdivia. Felt V MM in Mendoza and San Juan Provinces, Argentina. Felt in Buenos Aires, Catamarca, Cordoba and La Rioja Provinces and Distrito Federal, Argentina. Also felt in parts of Bolivia and Peru. Mo=6.6×10^{19}Nm (PPT).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s59,c163; Mantle waves: s60,c155; Half duration: 9s0. Moment tensor: Scale 10^{19}Nm; M_{rr}−1.59±.02; $M_{\theta\theta}$0.17±.01; $M_{\phi\phi}$1.42±.01; $M_{r\theta}$−0.45±.02; $M_{r\phi}$4.59±.03; $M_{\theta\phi}$−0.80±.01. Principal Axes: T 4.92,Plg35°,Azm257°; N 0.00,Plg7°,Azm352°; P −4.91,Plg54°,Azm92°. Best double couple: $M_0$4.9×10^{19}Nm, NP1:ϕ_S315°,δ12°,λ−128°. NP2:ϕ_S173°,δ80°,λ−83°.						
		(381) Central Italy						
ISC	**X**	**15 01 08 39**±1.1	**42.88N**±.040	**12.99E**±.080	**13**±9.4		**25**	**0-8**
ROM	X	15 01 08 38.0	42.9N	13.0E	5	3.2D		¶97x2525
LDG	X	15 01 08 38.6	42.8N	13.2E		3.1L		
NEIC	X	15 01 08 40.9	43.06N	12.78E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=III MCS in the epicentral area.						
		(381) Central Italy						
ISC	**X**	**15 01 52 15.1**±.64	**42.96N**±.037	**12.82E**±.065	**18**±8.1		**35**	**0-8**
ROM	X	15 01 52 14.0	43.0N	13.0E	6	3.3D		¶97x2531
LDG	X	15 01 52 15.2	42.9N	13.0E		3.2L		
NEIC	X	15 01 52 16.0	43.12N	12.69E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
		(115) Near coast of Peru						
ISC	**X**	**15 02 54 19.8**±.93	**16.10S**±.049	**73.60W**±.045	**46**±8.2	**5.7b,6.1s**	**358**	**2-176**
NEIC	X	15 02 54 20.8	16.12S	73.59W	56	5.7b		¶97x2545
BJI	X	15 02 54 21.0	15.64S	73.66W	38	7.0s		
MOS	X	15 02 54 21.2	15.8S	73.6W	47	6.0b		
EIDC	X	15 02 54 24.6	16.0S	73.6W	76	5.2b,6.0s		
NEIC		Felt I=III MM at Arequipa.						
		(381) Central Italy						
ISC	**X**	**15 03 01 26.7**±.71	**42.90N**±.044	**12.91E**±.071	**18**±9.3		**25**	**0-8**
ROM	X	15 03 01 25.4	42.9N	13.0E	5	3.2D		¶97x2548
NEIC	X	15 03 01 26.8	43.03N	12.86E	10			
LDG	X	15 03 01 27.3	42.9N	13.0E		3.3L		
NEIC		Less reliable solution.						
NEIC		Felt I=III MCS in the epicentral area.						

(7) Andreanof Islands

ISC	**X**	**15 03 11 12.2**±.88	**51.42N**±.038	**177.85W**±.034	**46**±7.6	**5.5b,6.1s**	**557**	**1-160**	
MOS	X	15 03 11 08.4	51.3N	177.9W	20	5.6b,6.1s			¶97x2553
BJI	X	15 03 11 08.4	51.98N	178.01W	11	5.6b,6.2s			
NEIC	X	15 03 11 09.0	51.43N	177.88W	22	5.7b,6.1s			
EIDC	X	15 03 11 09.2	51.4N	177.6W	18	4.7b,6.0s			
HRVD	X	15 03 11 15.6±.7	51.45N±.06	176.66W±.11	15				

NEIC Mw6.4(HRV), M_L5.6(PMR)
NEIC Felt I=III MM on Adak.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c67; Mantle waves: s23,c29; Half duration: 3s7. Moment tensor: Scale 10^{18}Nm; M_{rr}1.85±.17; $M_{\theta\theta}$−1.49±.14; $M_{\phi\phi}$−0.36±.19; $M_{r\theta}$4.14±.54; $M_{r\phi}$1.04±.58; $M_{\theta\phi}$−1.94±.17. Principal Axes: T 4.66,Plg55°,Azm5°; N 0.61,Plg16°,Azm251°; P −5.26,Plg30°,Azm152°. Best double couple: $M_0$5.0×10^{18}Nm, NP1:ϕ_S203°,δ21°,λ40°. NP2:ϕ_S75°,δ77°,λ106°.

(135) Near coast of Central Chile

ISC	**X**	**15 04 28 48.7**±.53	**30.87S**±.033	**71.17W**±.050	**64**±5.6	**5.4b**	**224**	**2-177**	
GUC	X	15 04 28 45.8	30.78S	71.67W	32				¶97x2565
BJI	X	15 04 28 46.7	29.89S	72.13W	48				
NEIC	X	15 04 28 47.0	30.81S	71.25W	48	5.5b			
EIDC	X	15 04 28 47.5	31.0S	71.5W	49	5.1b,4.9s			
MOS	X	15 04 28 50.3	31.0S	71.1W	79	5.9b			

NEIC Felt I=V MM at Hurtado; IV MM at Combarbala, Coquimbo and La Serena; II MM at Los Andes, Quillota, Quintero, San Felipe, Vina del Mar and Zapallar.

(135) Near coast of Central Chile

ISC	**X**	**15 04 50 38.3**±.81	**30.93S**±.061	**71.36W**±.080	**77**±9.0	**4.3b**	**54**	**2-147**	
NEIC	X	15 04 50 35.5	30.76S	71.30W	46	4.4b			¶97x2568
GUC	X	15 04 50 35.8	30.77S	71.64W	48				
EIDC	X	15 04 50 36.3	30.9S	71.4W	45	4.2b			

NEIC Felt I=V MM at Illapel, Ovalle and Salamanca; IV MM at Coquimbo, La Serena and Los Vilos; III MM at La Ligua and Vina del Mar; II MM at San Felipe and Valparaiso.

(277) Java

ISC	**X**	**15 06 03 32.3**±.85	**6.59S**±.057	**107.01E**±.044	**11**±6.2	**4.6b**	**47**	**0-157**	
DJA	X	15 06 03 32.3	6.6S	107.0E	16	5.6b,4.7D			¶97x2574
NEIC	X	15 06 03 32.7	6.64S	107.02E	10	4.7b			
EIDC	X	15 06 03 32.8	6.5S	107.1E	0	4.6b			
BJI	X	15 06 03 33.7	6.60S	107.00E	10				

NEIC Felt I=III MM at Bandung and II MM at Jakarta.

(381) Central Italy

ISC	**X**	**15 09 41 24**±1.1	**42.96N**±.043	**12.85E**±.089	**13**±9.1		**19**	**0-7**	
NEIC	X	15 09 41 21.8	42.93N	13.04E	10				¶97x2601
ROM	X	15 09 41 23.2	43.0N	12.9E	5	3.0D			
LDG	X	15 09 41 26.2	42.9N	12.9E		3.1L			

NEIC Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**15 11 06 38**±1.1	**42.93N**±.039	**12.82E**±.077	**13**±9.0		**26**	**0-7**	
LDG	X	15 11 06 35.8	42.7N	13.2E		3.4L			¶97x2612
ROM	X	15 11 06 36.8	42.9N	12.9E	5	3.2D			
NEIC	X	15 11 06 40.3	43.11N	12.61E	10				

NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**15 11 17 57.2**±.66	**42.84N**±.040	**12.86E**±.093	**8**		**21**	**0-7**	
ROM	X	15 11 17 56.0	42.9N	13.0E	8	3.0D			¶97x2616
NEIC	X	15 11 17 59.2	42.85N	12.65E	10				
LDG	X	15 11 18 00.4	42.7N	12.8E		3.2L			

NEIC Poor solution.
NEIC Felt I=III MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**15 11 51 45.4**±.71	**42.96N**±.026	**12.89E**±.024	**4**±5.6	**4.4b**	**132**	**0-87**	
ROM	X	15 11 51 44.8	42.9N	13.0E	3	3.9D			¶97x2622
LDG	X	15 11 51 45.8	42.9N	13.2E		3.9L			
BJI	X	15 11 51 46.0	43.00N	12.90E	10	4.8b			
NEIC	X	15 11 51 46.0	42.96N	12.89E	10	4.1b			
EIDC	X	15 11 51 47.1	42.8N	13.2E	0	3.9b,4.2L			
PDG	X	15 11 51 48.5	43.1N	13.0E	10	4.1L			
STR	X	15 11 51 51.9	43.18N	12.55E	10	4.2L			

NEIC M_L4.3(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**15 12 05 11**±1.1	**42.86N**±.039	**12.91E**±.086	**11**±8.9		**24**	**0-8**	
NEIC	X	15 12 05 10.3	42.77N	12.93E	10				¶97x2626
ROM	X	15 12 05 10.4	42.9N	13.0E	4	3.3D			

NEIC M_L3.6(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(244) Taiwan

ISC	**X**	**15 13 21 08.0**±.91	**23.66N**±.056	**120.67E**±.079	**9**±10		**9**	**0-1**	
TAP	X	15 13 21 07.7	23.63N	120.67E	8	2.7L			¶97x2644

TAP Felt I=II J

(381) Central Italy

ISC	**X**	**15 14 09 58.8**±.97	**42.88N**±.027	**12.96E**±.034	**13**±7.9		**89**	**0-8**	
ROM	X	15 14 09 57.3	42.9N	13.0E	5	3.7D			¶97x2650
LDG	X	15 14 09 57.5	42.8N	13.3E		3.5L			
NEIC	X	15 14 09 58.2	42.87N	12.96E	10				
STR	X	15 14 10 04.4	43.11N	12.63E	10	4.0L			

NEIC M_L3.8(VIE)
NEIC ML 3.8 (FUR). Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**15 14 35 51.2**±.67	**42.88N**±.039	**12.88E**±.075	**22**±8.8		**25**	**0-7**	
ROM	X	15 14 35 49.8	42.9N	13.0E	5	3.3D			¶97x2657
NEIC	X	15 14 35 52.8	43.12N	12.67E	10				

NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(135) Near coast of Central Chile

ISC	**X**	**15 14 50 35.7**±.76	**31.06S**±.052	**71.18W**±.083	**76**±7.5	**4.4b**	**59**	**2-165**	
GUC	X	15 14 50 28.4	30.56S	71.62W	82	4.8D			¶97x2659
NEIC	X	15 14 50 33.6	31.05S	71.27W	61	4.5b			
EIDC	X	15 14 50 34.8	31.1S	71.3W	59	4.2b,4.0s			

NEIC Felt I=III MM at Coquimbo, Combarbala, Illapel, La Serena, Papudo, Petorca and Salamanca; II MM at Llaillay, Los Andes, Panquehue, San Esteban, San Felipe and Zapallar.

(381) Central Italy

ISC	**X**	**15 15 36 14**±1.1	**42.89N**±.030	**12.92E**±.045	**12**±8.9	3.6b	**61**	**0-75**	
NEIC	X	15 15 36 12.7	42.85N	12.94E	10				¶97x2668
ROM	X	15 15 36 12.8	42.9N	13.0E	6	3.6D			
LDG	X	15 15 36 13.7	42.8N	13.1E		3.8L			
EIDC	X	15 15 36 15.1	42.9N	13.3E	0	3.5b,3.9L			

NEIC M_L3.9(VIE)
NEIC ML 3.6 (FUR). Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**15 17 15 58**±1.1	**42.92N**±.039	**12.83E**±.076	**14**±8.9		**28**	**0-7**	
LDG	X	15 17 15 56.1	42.8N	13.2E		3.3L			¶97x2682
ROM	X	15 17 15 56.6	42.9N	12.9E	4	3.4D			
NEIC	X	15 17 15 57.5	42.90N	12.81E	10				

NEIC Poor solution.
NEIC ML 3.2 (VIE). Felt I=IV MCS in the epicentral area.

(244) Taiwan

ISC	**X**	**15 17 50 04.5**±.72	**23.05N**±.033	**120.78E**±.056	**1**±9.6		**17**	**0-2**	
TAP	X	15 17 50 02.8	23.04N	120.79E	2	3.3L			¶97x2688

TAP Felt I=II J

(381) Central Italy

ISC	**X**	**15 18 18 16**±1.2	**42.86N**±.030	**12.96E**±.039	**15**±9.2		**76**	**0-8**	
ROM	X	15 18 18 14.9	42.9N	13.0E	5	3.6D			¶97x2692
LDG	X	15 18 18 15.0	42.8N	13.3E		3.5L			
NEIC	X	15 18 18 15.4	42.87N	12.97E	10				

NEIC M_L3.7(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**15 18 49 54.4**±.74	**43.01N**±.024	**12.83E**±.030	**7**±6.0	**3.8b**,3.2s	**130**	**0-75**	
ROM	X	15 18 49 53.7	43.0N	12.9E	5	3.8D			¶97x2694
NEIC	X	15 18 49 54.8	43.02N	12.83E	10				
LDG	X	15 18 49 55.1	42.9N	13.1E		3.6L			
EIDC	X	15 18 49 55.5	43.0N	13.0E	0	3.9L,3.8b			
STR	X	15 18 50 02.2	43.30N	12.36E	10	3.9L			

NEIC M_L3.9(VIE)
NEIC ML 3.8 (FUR). Felt I=V MCS in the epicentral area.

(378) Pyrenees

ISC	**X**	**15 20 38 20.6**±.53	**42.93N**±.042	**0.18E**±.045	**5**		**20**	**0-6**	
NEIC	X	15 20 38 20.1	42.88N	0.13E	5				¶97x2713
LDG	X	15 20 38 20.5	43.0N	0.1E		2.3L			
MDD	X	15 20 38 21.1	43.01N	9.70W	2	2.9			

PIST Felt I=III MSK Ossau Valley
NEIC Single network solution.

(538) France

ISC	**X**	**15 20 40 25.0**±.57	**43.18N**±.045	**0.17E**±.049	**12**±8.6		**22**	**0-5**	
NEIC	X	15 20 40 26.3	43.04N	0.09E	5				¶97x2715
LDG	X	15 20 40 26.5	43.0N	0.1E		2.7L			
MDD	X	15 20 40 27.2	42.98N	9.70W	3	3.1			

NEIC Poor solution.
NEIC Felt I=III MSK in the Ossau Valley.

(381) Central Italy

ISC	**X**	**15 22 09 35.6**±.96	**42.93N**±.035	**12.73E**±.076	**0**±9.5		**31**	**0-7**	
NEIC	X	15 22 09 33.9	42.76N	12.90E	10				¶97x2733
ROM	X	15 22 09 34.8	43.0N	12.9E	5	3.2D			
LDG	X	15 22 09 38.9	42.8N	12.7E		3.0L			

NEIC Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.

(244) Taiwan

ISC	**X**	**15 22 28 55.7**±.53	**24.07N**±.031	**121.76E**±.044	**19**±5.2	**3.8b**,3.6s	**46**	**0-72**	
EIDC	X	15 22 28 54.2	24.1N	122.0E	0	3.8b,4.1L			¶97x2735
BJI	X	15 22 28 55.0	24.13N	121.76E	19	4.1L,4.2b			
JMA	X	15 22 28 55.2±.4	24.00N±.05	121.57E±.03	66	3.8			
TAP	X	15 22 28 55.7	24.13N	121.64E	8	4.3L			
NEIC	X	15 22 28 56.9	24.12N	121.98E	33				

BJI Ms3.7
TAP Felt I=III J, II Chiawan, Hwalien
NEIC Less reliable solution.

(381) Central Italy

ISC	**X**	**15 22 53 10.2**±.70	**42.94N**±.021	**12.88E**±.020	**6**±5.4	**4.3b,4.4s**	**190**	**0-80**	
BJI	X	15 22 53 07.6	43.58N	12.19E	4	4.8b			¶97x2740
ROM	X	15 22 53 09.3	42.9N	13.0E	6	4.1D			
LDG	X	15 22 53 09.3	42.8N	13.2E		3.9L			
NEIC	X	15 22 53 10.4	42.93N	12.89E	10	4.5b			
MOS	X	15 22 53 11.1	43.0N	13.0E	10	5.2b			
EIDC	X	15 22 53 11.1	42.9N	12.9E	0	3.9b,3.9s			
PDG	X	15 22 53 15.8	42.8N	13.3E	12	4.1L			
STR	X	15 22 53 17.3	43.16N	12.51E	10	4.2L			

NEIC M_L4.4(VIE), M_L4.4(FUR)
NEIC Felt I=VI MCS in the epicentral area.

(381) Central Italy

ISC	**X**	**16 00 11 45.1**±.99	**42.87N**±.030	**12.98E**±.038	**11**±8.0		**83**	**0-38**	
ROM	X	16 00 11 44.1	42.9N	13.0E	5	3.6D			¶97x2753
LDG	X	16 00 11 44.7	42.8N	13.2E		3.5L			
NEIC	X	16 00 11 45.0	42.89N	12.96E	10				
EIDC	X	16 00 11 47.7	43.0N	13.4E	0	3.9L			

NEIC M_L3.7(VIE)
NEIC ML 3.6 (FUR). Felt I=V MCS in the epicentral area.

(533) United Kingdom

ISC	**X**	**16 00 19 09.6**±.68	**50.36N**±.051	**3.55W**±.099	**21**±10		**32**	**0-8**	
NEIC	X	16 00 19 08.2	50.48N	3.47W	10				¶97x2755
BGS	X	16 00 19 11.7	50.39N	3.73W	10	2.8L			
LDG	X	16 00 19 12.4	50.3N	3.7W		3.2L			

NEIC Less reliable solution.
BGS Felt I=IV MSK, Dartmouth area over some 1400 sq kms

(135) Near coast of Central Chile

ISC	**X**	**16 00 45 38.7**±.52	**31.07S**±.034	**71.09W**±.059	**78**±5.4	**5.1b**	**155**	**2-177**	
BJI	X	16 00 45 37.2	31.00S	71.10W	64				¶97x2759
NEIC	X	16 00 45 37.2	30.99S	71.13W	64	5.4b,4.5s			
EIDC	X	16 00 45 38.2	31.1S	71.4W	67	4.8b,4.6s			
GUC	X	16 00 45 39.4	31.25S	71.57W	30	5.1D			
MOS	X	16 00 45 39.5	31.1S	71.1W	82	5.5b			

NEIC Felt I=V MM at Los Vilos; III MM at La Ligua, Los Andes, Papudo, Quillota, San Felipe and Valparaiso; II MM at Santiago.

(381) Central Italy

ISC	**X**	**16 02 23 37.4**±.79	**42.91N**±.024	**12.90E**±.024	**6**±6.4	3.7b	**142**	**0-75**	
ROM	X	16 02 23 36.4	42.9N	13.0E	5	3.9D			¶97x2772
NEIC	X	16 02 23 37.6	42.91N	12.92E	10	4.7b			
LDG	X	16 02 23 39.0	42.8N	13.0E		3.7L			
EIDC	X	16 02 23 44.5	43.4N	13.0E	0	3.8L,3.5s			
PDG	X	16 02 23 44.6	43.0N	13.5E	16	4.0L			
STR	X	16 02 23 46.6	43.16N	12.24E	10	3.9L			

NEIC M_L4.1(VIE), M_L4.0(FUR)
NEIC Felt I=V MCS in the epicentral area.

(405) Azores

ISC	**X**	**16 04 14 37**±1.0	**37.8N**±.18	**26.22W**±.068	**5**		**19**	**0-2**	
ADH	X	16 04 14 40.5	37.76N	26.09W	5	3.5D			¶97x2783

ADH Felt on Sao Miguel, I=III−IV MM at Mosteiros, Bretanha, Candelaria, Ginetes and Varzea, III at Sete Cidades

(381) Central Italy

ISC	**X**	**16 04 52 55.1**±.21	**42.98N**±.022	**12.88E**±.024	**4**	**4.1b**,4.0s	**145**	**0-75**	
ROM	X	16 04 52 54.9	42.9N	12.9E	4	3.9D			¶97x2789
BJI	X	16 04 52 55.6	43.00N	12.90E	10	4.4b			

Agency		Origin Time		φ	λ	h	Mag	*n*	Δ-Rng
		mo d h m s		°	°	km			°
NEIC	X	16 04 52 55.6		42.98N	12.89E	10	4.2b		
EIDC	X	16 04 52 58.6		43.1N	13.2E	0	3.9L,3.8s		
LDG	X	16 04 52 59.1		43.0N	12.8E		3.9L		
STR	X	16 04 53 02.8		43.19N	12.43E	10	4.1L		
NEIC	$M_{L4.5}$(VIE), $M_{L4.4}$(FUR)								
NEIC	Felt I=VI MCS in the epicentral area.								
	(98) Trinidad								
ISC	**X**	**16 08 27 27.7**±.68		**10.78N**±.053	**61.9W**±.10	**66**±7.4	**4.1b**	**32**	**0-145**
NEIC	X	16 08 27 27.7		10.79N	61.92W	67	4.3b		¶97x2811
TRN	X	16 08 27 29.3		10.8N	61.8W	51	4.2D		
EIDC	X	16 08 27 29.9		10.9N	62.1W	65	3.8b,3.3s		
TRN	Felt I=IV MM in the Port of Spain area. I=III in St. Augustine and Maracas, and I=II in Tacarigua								
	(381) Central Italy								
ISC	**X**	**16 12 00 30.2**±.72		**43.03N**±.019	**12.86E**±.020	**1**±5.5	**4.4b,4.2s**	**223**	**0-87**
LDG	X	16 12 00 29.8		42.9N	13.2E		4.3L		¶97x2832
ROM	X	16 12 00 30.5		43.0N	12.9E	8	4.1D		
BJI	X	16 12 00 31.2		43.00N	12.80E	10	4.7b		
NEIC	X	16 12 00 31.2		43.02N	12.85E	10			
PDG	X	16 12 00 34.2		42.7N	13.0E	10	4.5L		
EIDC	X	16 12 00 36.2		43.1N	13.0E	26	3.9b,4.0s		
STR	X	16 12 00 39.8		43.33N	12.24E	10	4.5L		
NEIC	$M_{L4.8}$(VIE), $M_{L4.6}$(FUR)								
NEIC	Felt I=VI MCS in the epicentral area.								
	(43) Southern California								
ISC	**X**	**16 16 02 28.9**±.73		**34.21N**±.040	**118.67W**±.053	**3**±6.3		**28**	**0-3**
NEIC	X	16 16 02 29.7		34.22N	118.62W	3			¶97x2855
NEIC	M_L3.3(GS), M_L3.0(PAS). Felt, After PAS.								
NEIC	Felt at Chatsworth and in the San Fernando Valley.								
	(381) Central Italy								
ISC	**X**	**16 17 31 44.6**±.96		**42.87N**±.023	**12.95E**±.023	**14**±7.3	**4.2b**,4.0s	**172**	**0-80**
ROM	X	16 17 31 43.7		42.9N	13.0E	5	3.9D		¶97x2862
BJI	X	16 17 31 43.9		42.90N	13.00E	10	4.6b		
NEIC	X	16 17 31 43.9		42.88N	12.97E	10	4.3b		
LDG	X	16 17 31 44.4		42.8N	13.2E		3.7L		
EIDC	X	16 17 31 45.0		42.8N	13.2E	0	4.0b,4.0L		
MOS	X	16 17 31 45.1		43.0N	13.2E	10	5.0b		
STR	X	16 17 31 46.5		42.95N	12.91E	10	4.2L		
PDG	X	16 17 31 48.3		42.6N	13.2E	10	3.8L		
NEIC	$M_{L4.5}$(VIE)								
NEIC	ML 4.2 (FUR). Felt I=V MCS in the epicentral area.								
	(221) Kuril Islands								
ISC	**X**	**16 19 00 06.7**±.71		**43.54N**±.049	**146.72E**±.062	**46**±6.2	**4.2b,3.7s**	**87**	**1-145**
MOS	X	16 19 00 04.8		43.5N	146.8E	33	5.0b		¶97x2869
NEIC	X	16 19 00 05.3		43.60N	146.62E	33	4.6b		
BJI	X	16 19 00 06.2		43.85N	147.05E	56	4.5b,3.9s		
SKHL	X	16 19 00 08.0		43.5N±.10	146.7E±.05	54±1			
EIDC	X	16 19 00 08.2		43.6N	146.6E	42	3.9b,3.6s		
JMA	X	16 19 00 09.6±.3		43.45N±.02	146.44E±.03	49±3	4.8		
MOS	Felt I=V MSK at Yuzhno−Kurilsk, Malokurilsk.								
NEIC	Felt I=V MSK on Shikotan and at Yuzhno-Kurilsk, Kunashir. Also felt II J in the Nemuro area, Hokkaido.								
SKHL	K10.5 Felt I=IV MSK at Malokurilskoe; I=II−III MSK at Yuzhno−Kurilsk								
JMA	Felt I= II J1								
	(381) Central Italy								
ISC	**X**	**16 20 47 51.3**±.83		**42.95N**±.034	**12.86E**±.059	**10**±7.0		**32**	**0-8**
ROM	X	16 20 47 50.2		43.0N	13.0E	3	3.3D		¶97x2877
NEIC	X	16 20 47 51.6		42.98N	12.83E	10			
LDG	X	16 20 47 53.3		43.0N	13.0E		3.0L		
NEIC	M_L3.3(VIE)								
NEIC	Felt I=IV MCS in the epicentral area.								
	(7) Andreanof Islands								
ISC	**X**	**16 21 45 25**±1.2		**51.33N**±.070	**177.86W**±.049	**52**±10	**4.6b,4.1s**	**128**	**1-151**
BJI	X	16 21 45 21.6		51.53N	178.38W	14	5.0b,4.3s		¶97x2884
MOS	X	16 21 45 21.7		51.1N	177.8W	33	5.4b,4.1s		
NEIC	X	16 21 45 22.8		51.29N	177.87W	33	4.7b,4.1s		
EIDC	X	16 21 45 23.0		51.4N	177.8W	21	4.2b,4.0s		
NEIC	$M_{L4.7}$(PMR)								
NEIC	Felt I=II MM at Adak.								
	(162) South Island, New Zealand								
ISC	**X**	**16 21 59 45.8**±.98		**43.30S**±.065	**171.44E**±.093	**27**±12		**26**	**0-6**
WEL	X	16 21 59 46.4		43.29S	171.35E	12	4.6L		¶97x2885
WEL	Felt lake Coleridge and Christchurch.								
	(162) South Island, New Zealand								
ISC	**X**	**16 23 27 09**±1.1		**43.29S**±.068	**171.4E**±.10	**24**±13		**19**	**0-5**
WEL	X	16 23 27 08.9		43.29S	171.35E	12	4.1L		¶97x2898
WEL	Felt I=IV MM Lake Coleridge								
	(95) Windward Islands								
TRN	**X**	**17 04 48 59.4**		**13.1N**	**61.3W**	**25**	**3.3D**		¶97x2930
TRN	Reported felt in St. Vincent. MD2.8(after MVM)								
	(244) Taiwan								
ISC	**X**	**17 10 41 37**±6.5		**23.3N**±.17	**120.2E**±.46	**13**		**5**	**1-1**
TAP	X	17 10 41 34.1		23.19N	120.08E	13	2.7L		¶97x2964
TAP	Felt I=II J								
	(381) Central Italy								
ISC	**X**	**17 12 10 25.3**±.96		**42.96N**±.039	**12.75E**±.069	**14**±8.0		**25**	**0-7**
LDG	X	17 12 10 23.3		42.8N	13.2E		3.4L		¶97x2983
ROM	X	17 12 10 24.1		43.0N	12.9E	5	3.3D		
NEIC	X	17 12 10 25.2		43.06N	12.72E	10			
NEIC	Single network solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
	(243) Taiwan region								
ISC	**X**	**17 13 14 17.1**±.34		**22.79N**±.029	**121.43E**±.036	**37**±5.0	**3.9b,4.1s**	**73**	**0-84**
EIDC	X	17 13 14 14.2		22.7N	121.6E	0	3.8b,4.5L		¶97x2992
BJI	X	17 13 14 15.9		22.96N	121.32E	16	4.1L,4.4b		
NEIC	X	17 13 14 16.3		22.76N	121.58E	33	3.9b		
TAP	X	17 13 14 16.8		22.82N	121.43E	26	4.7L		
JMA	X	17 13 14 18.3±.4		22.78N±.04	121.54E±.03	81	4.3		
BJI	Ms3.8								
NEIC	Less reliable solution.								
TAP	Felt I=III J Chengkung, II Taitung, Pinlang								
	(226) Near west coast of Honshū								
ISC	**X**	**17 13 31 57.7**±.82		**38.94N**±.064	**139.92E**±.087	**15**		**9**	**0-3**
JMA	X	17 13 31 57.7±.0		38.93N±.00	139.89E±.00	15±1	3.5		¶97x2996
JMA	Felt I=II J1								
	(381) Central Italy								
ISC	**X**	**17 14 23 45.1**±.83		**42.88N**±.024	**12.92E**±.029	**4**±6.9	3.6b	**128**	**0-72**
ROM	X	17 14 23 44.5		42.9N	13.0E	6	3.8D		¶97x3002
LDG	X	17 14 23 45.7		42.8N	13.2E		3.9L		
NEIC	X	17 14 23 45.8		42.89N	12.91E	10			
EIDC	X	17 14 23 50.5		43.2N	12.3E	0	3.8L,3.5b		
STR	X	17 14 23 55.3		43.28N	12.28E	10	4.0L		
NEIC	$M_{L4.5}$(VIE), $M_{L4.1}$(FUR)								
NEIC	Felt I=V MCS in the epicentral area.								
	(381) Central Italy								
ISC	**X**	**17 15 11 10.6**±.94		**42.88N**±.035	**12.81E**±.068	**11**±8.0		**33**	**0-7**
ROM	X	17 15 11 09.7		42.9N	12.9E	10	3.3D		¶97x3015
LDG	X	17 15 11 10.4		42.8N	13.0E		3.3L		
NEIC	X	17 15 11 10.8		42.88N	12.78E	10			
NEIC	Felt I=IV MCS in the epicentral area.								
	(381) Central Italy								
ISC	**X**	**17 16 54 12.2**±.78		**43.12N**±.047	**12.71E**±.079	**13**±6.7		**21**	**0-7**
ROM	X	17 16 54 11.3		43.1N	12.8E	7	3.4D		¶97x3024
LDG	X	17 16 54 13.3		43.0N	12.8E		2.9L		
NEIC	X	17 16 54 13.3		43.23N	12.58E	10			
NEIC	Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
	(244) Taiwan								
ISC	**X**	**17 18 31 07.0**±.71		**22.87N**±.050	**120.69E**±.056	**13**±8.4		**14**	**0-2**
TAP	X	17 18 31 06.2		22.84N	120.69E	14	3.0L		¶97x3039
TAP	Felt I=II J								
	(378) Pyrenees								
ISC	**X**	**17 19 24 12**±1.0		**43.12N**±.094	**0.37W**±.091	**0**		**6**	**0-3**
LDG	X	17 19 24 13.3		43.0N	0.4W		2.2L		¶97x3047
PIST	Felt I=III MSK Castet/Ossau								
	(127) Chile-Argentina border region								
ISC	**X**	**17 20 01 55**±1.2		**30.84S**±.068	**70.95W**±.098	**103**±9.6	**4.9b**	**58**	**2-165**
EIDC	X	17 20 01 51.5		31.0S	71.2W	66	4.3b		¶97x3053
NEIC	X	17 20 01 54.3		30.85S	70.99W	100	5.0b		
NEIC	Felt I=IV MM at Coquimbo, Combarbala, Illapel, La Serena, Los Vilos, Ovalle, Punitaqui and Salamanca; III MM at Panquehue and San Felipe, Chile.								
	(135) Near coast of Central Chile								
ISC	**X**	**17 21 43 10**±1.3		**30.83S**±.068	**71.2W**±.11	**74**±12	**4.6b**	**38**	**2-151**
NEIC	X	17 21 43 07.2		30.79S	71.34W	48	4.9b		¶97x3064
EIDC	X	17 21 43 08.2		30.8S	71.3W	47	4.4b,3.9s		
NEIC	Felt I=IV MM at Limari and Punitaqui; III MM at Choapa and La Serena.								
	(381) Central Italy								
ISC	**X**	**18 01 10 11.1**±.64		**42.88N**±.041	**12.90E**±.077	**20**±8.6		**33**	**0-8**
ROM	X	18 01 10 09.6		42.9N	13.0E	5	3.2D		¶97x3081
LDG	X	18 01 10 12.2		42.9N	13.0E		3.0L		
NEIC	X	18 01 10 13.1		43.13N	12.69E	10			
NEIC	Felt I=IV MCS in the epicentral area.								
	(381) Central Italy								
ISC	**X**	**18 01 48 21**±1.0		**43.03N**±.043	**12.88E**±.072	**12**±7.4		**26**	**0-7**
LDG	X	18 01 48 18.8		42.8N	13.3E		3.0L		¶97x3085
ROM	X	18 01 48 20.0		43.0N	13.0E	5	3.3D		
NEIC	X	18 01 48 21.1		43.08N	12.86E	10			
NEIC	Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
	(45) California-Mexico border region								
ECX	**X**	**18 02 43 26.5**		**32.43N**	**115.18W**	**8**	**3.5D**		¶97x3090
ECX	Felt in the Mexicali Valley								
	(381) Central Italy								
ISC	**X**	**18 04 46 41.7**±.84		**42.88N**±.050	**13.0E**±.11	**21**±9.7		**21**	**0-7**
ROM	X	18 04 46 40.7		42.9N	13.0E	5	3.0D		¶97x3100
LDG	X	18 04 46 41.4		42.8N	13.2E		3.0L		
NEIC	X	18 04 46 42.9		43.08N	12.79E	10			
NEIC	Less reliable solution.								
NEIC	Felt I=III MCS in the epicentral area.								
	(244) Taiwan								
ISC	**X**	**18 07 47 20.6**±.81		**24.18N**±.047	**121.75E**±.065	**11**±7.8		**19**	**0-2**
TAP	X	18 07 47 20.3		24.21N	121.67E	11	3.6L		¶97x3120
JMA	X	18 07 47 20.6±.3		24.38N±.06	121.68E±.02	84	3.0		
TAP	Felt I=III J								
	(163) Cook Strait, New Zealand								
ISC	**X**	**18 11 32 47.6**±.86		**41.46S**±.064	**174.18E**±.077	**65**±17		**21**	**0-3**
WEL	X	18 11 32 48.9		41.43S	174.17E	50	3.7L		¶97x3149
NEIC	X	18 11 32 49.3		41.35S	174.19E	33			
WEL	Felt I=IV MM Fighting Bay								
NEIC	Single network solution.								
	(381) Central Italy								
ISC	**X**	**18 17 10 49**±1.0		**42.82N**±.033	**12.94E**±.053	**12**±8.5		**52**	**0-8**
ROM	X	18 17 10 48.0		42.8N	13.0E	5	3.6D		¶97x3197
NEIC	X	18 17 10 48.4		42.78N	12.94E	10			
LDG	X	18 17 10 52.3		42.9N	12.9E		3.2L		
NEIC	M_L3.7(VIE), Less reliable solution.								
NEIC	Felt I=V MCS in the epicentral area.								
	(381) Central Italy								
ISC	**X**	**18 17 41 47.5**±.49		**42.85N**±.034	**12.86E**±.065	**5**		**27**	**0-7**
ROM	X	18 17 41 47.6		42.8N	13.0E	5	3.3D		¶97x3202
LDG	X	18 17 41 50.6		42.8N	12.8E		2.9L		
NEIC	X	18 17 41 50.8		43.08N	12.63E	10			
NEIC	Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
	(381) Central Italy								
ISC	**X**	**18 18 00 51.1**±.66		**42.98N**±.052	**12.70E**±.090	**19**±8.5		**17**	**0-7**
ROM	X	18 18 00 50.5		43.0N	12.9E	7	3.0D		¶97x3207
NEIC	X	18 18 00 55.1		43.18N	12.20E	10			
LDG	X	18 18 00 56.7		43.0N	12.3E		2.7L		
NEIC	Poor solution.								
NEIC	Felt I=III MCS in the epicentral area.								
	(72) Honduras								
ISC	**X**	**18 19 10 16.0**±.94		**14.75N**±.071	**88.9W**±.12	**50**±13	**4.2b,3.8s**	**47**	**1-149**
NEIC	X	18 19 10 14.1		14.74N	88.90W	33	4.6b		¶97x3216
EIDC	X	18 19 10 17.3		14.7N	88.9W	44	3.9b,4.0s		
NEIC	Less reliable solution.								
NEIC	Felt I=II MM at San Salvador, El Salvador.								
	(244) Taiwan								
ISC	**X**	**18 22 13 52.6**±.65		**24.44N**±.053	**122.00E**±.059	**21**±10		**23**	**0-3**
JMA	X	18 22 13 51.3±.5		25.09N±.04	122.17E±.04	20	3.2		¶97x3244
TAP	X	18 22 13 52.7		24.45N	121.93E	17	3.8L		
BJI	X	18 22 13 57.3		24.85N	121.20E	15	2.9L		
TAP	Felt I=IV J, II Suao, Ilan, I Neicheng								
	(405) Azores								
ISC	**X**	**18 23 31 02**±1.4		**37.8N**±.21	**26.21W**±.091	**8**		**17**	**0-2**
ADH	X	18 23 31 05.4		37.80N	26.08W	8	3.0D		¶97x3254
ADH	Felt on Sao Miguel, I=II−III MM at Candelaria								
	(381) Central Italy								
ISC	**X**	**18 23 32 22.8**±.81		**42.99N**±.032	**12.76E**±.053	**3**±7.1		**42**	**0-7**
ROM	X	18 23 32 21.9		43.0N	12.9E	6	3.3D		¶97x3256

LDG X 18 23 32 22.0 42.8N 13.1E 3.1L
NEIC X 18 23 32 23.7 43.01N 12.75E 10
NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC X 19 00 44 30.6±.92 42.91N±.024 12.91E±.035 0±7.8 95 0-20
ROM X 19 00 44 29.9 42.9N 13.0E 5 3.8D ¶97x3266
LDG X 19 00 44 30.3 42.7N 13.2E 3.6L
NEIC X 19 00 44 31.9 42.92N 12.87E 10
EIDC X 19 00 45 14.3 46.0N 13.7E 0 3.3L
NEIC M_{L}4.0(VIE)
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC X 19 02 41 34.1±.87 42.96N±.034 12.85E±.059 8±7.3 37 0-7
NEIC X 19 02 41 32.0 42.80N 12.99E 10 ¶97x3276
ROM X 19 02 41 33.3 43.0N 12.9E 5 3.5D
LDG X 19 02 41 34.4 42.8N 13.0E 3.3L
NEIC M_{L}3.5(VIE). Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC X 19 04 51 26±1.1 42.94N±.030 12.88E±.037 13±8.5 74 0-21
ROM X 19 04 51 24.8 42.9N 12.9E 3 3.8D ¶97x3290
NEIC X 19 04 51 25.1 42.90N 12.89E 10
LDG X 19 04 51 27.4 42.9N 13.0E 3.5L
NEIC M_{L}3.8(VIE)
NEIC Felt I=V MCS in the epicentral area.

(546) Austria

ISC X 19 10 30 57.6±.32 47.41N±.023 11.82E±.040 10 85 0-8
NEIC X 19 10 30 58.0 47.36N 11.76E 10 ¶97x3330
SZGRF X 19 10 30 58.8 47.4N 11.7E 10 3.3L
LDG X 19 10 31 00.2 47.5N 11.7E 3.0L
ROM X 19 10 31 01.0 47.2N 12.0E 5 3.4D
LEDBW X 19 10 31 02.6 47.46N 11.63E 10 3.1L
STR X 19 10 31 04.0 47.53N 11.48E 10 3.0L
NEIC M_{L}3.1(VIE)
NEIC ML 3.1 (FBB), 2.7 (FUR). Felt I=IV MM at Schwaz.

(381) Central Italy

ISC X 19 16 00 17.2±.74 42.98N±.020 12.81E±.021 8±5.8 4.3b 182 0-75
ROM X 19 16 00 16.4 43.0N 12.9E 8 3.9D ¶97x3365
BJI X 19 16 00 17.3 43.00N 12.80E 10 4.7b
NEIC X 19 16 00 17.3 42.97N 12.81E 10 4.5b
LDG X 19 16 00 17.8 42.9N 13.0E 3.9L
PDG X 19 16 00 21.1 42.7N 12.9E 13 4.1L
EIDC X 19 16 00 23.8 43.5N 13.0E 0 3.9L,3.9b
STR X 19 16 27.3 43.37N 12.15E 10 4.1L
NEIC M_{L}4.5(VIE), M_{L}4.1(FUR)
NEIC Felt I=VI MCS in the epicentral area.

(536) Sweden

ISC X 19 19 50 56.7±.52 65.35N±.044 22.3E±.16 15 18 2-13
EIDC X 19 19 50 56.1 65.3N 22.2E 0 3.5L ¶97x3387
UPP X 19 19 50 58 65.3N 22.5E 3.4L
HEL X 19 19 50 58 65.37N 22.42E 3.2L
BER X 19 19 50 59.7 65.3N 22.4E 15 3.4D,3.2L
UPP Felt
HEL Md3.4

(29) Washington State

ISC X 19 23 06 18.3±.61 47.78N±.033 121.86W±.051 14±6.1 30 0-3
NEIC X 19 23 06 19.0 47.77N 121.87W 3 ¶97x3402
NEIC M_{L}3.2(GS), M_{D}3.1(SEA). Felt, After SEA.

(381) Central Italy

ISC X 20 01 27 05.2±.59 42.96N±.028 12.85E±.033 17±6.8 3.0b 94 0-71
NEIC X 20 01 27 03.6 42.90N 12.89E 10 ¶97x3415
ROM X 20 01 27 03.7 43.0N 13.0E 5 3.8D
EIDC X 20 01 27 04.4 42.9N 13.2E 0 3.5b,4.1L
LDG X 20 01 27 04.5 42.9N 13.1E 3.4L
NEIC M_{L}3.9(VIE)
NEIC Felt I=VI MCS in the epicentral area.

(135) Near coast of Central Chile

ISC X 20 03 31 10.4±.68 30.81S±.044 71.27W±.071 66±7.3 4.8b 91 2-165
GUC X 20 03 31 08.0 30.75S 71.91W 48 5.0D ¶97x3427
NEIC X 20 03 31 08.5 30.71S 71.35W 45 5.0b
EIDC X 20 03 31 09.0 30.7S 71.3W 43 4.8b,4.4L
NEIC Felt I=V MM at Ovalle, IV MM at Paihuano and III MM at Coquimbo, Illapel, La Serena and Monte Patria.

(381) Central Italy

ISC X 20 06 09 31.6±.81 42.93N±.028 12.83E±.035 9±6.4 3.7b 93 0-71
STR X 20 06 09 27.5 42.65N 13.45E 11 3.9L ¶97x3451
ROM X 20 06 09 30.5 43.0N 13.0E 4 3.7D
LDG X 20 06 09 30.6 42.8N 13.2E 3.5L
NEIC X 20 06 09 31.9 42.95N 12.80E 10
EIDC X 20 06 09 32.3 42.9N 13.0E 0 4.1L,3.7b
NEIC M_{L}3.9(VIE)
NEIC Felt I=V MCS in the epicentral area.

(329) Eastern Kazakhstan

ISC X 20 10 21 47.7±.97 44.88N±.058 79.81E±.073 36±11 4.0b,3.9s 34 3-84
EIDC X 20 10 21 43.3 44.7N 79.8E 0 4.1b,4.5L ¶97x3479
NEIC X 20 10 21 46.7 44.87N 79.90E 33 4.1b
MOS X 20 10 21 47.6 44.9N 79.8E 33 4.6b
BJI X 20 10 21 50.0 44.48N 80.36E 25 4.7L,4.4b
NEIC Less reliable solution.
MOS Felt I=II MSK at Alma−Ata.
BJI Ms4.1

(135) Near coast of Central Chile

ISC X 20 11 04 20±1.1 31.01S±.072 71.3W±.11 79±9.6 4.0b 43 2-151
GUC X 20 11 04 15.9 30.96S 71.62W 11 4.6D ¶97x3489
NEIC X 20 11 04 16.7 30.77S 71.32W 52 4.6b
EIDC X 20 11 04 18.4 30.9S 71.3W 52 3.9b,3.5s
NEIC Felt I=V MM at Paihuano, IV MM at Ovalle and III MM at Coquimbo and La Serena.

(228) Near east coast of Honshū

ISC X 20 14 12 15.6±.68 36.33N±.043 140.91E±.076 52±5.8 4.6b,3.8s 61 0-147
MOS X 20 14 12 12.6 36.3N 141.2E 33 5.1b ¶97x3514
NEIC X 20 14 12 14.6 36.29N 141.03E 44 4.9b
JMA X 20 14 12 15.6±.2 36.31N±.01 140.92E±.02 43±2 4.1
EIDC X 20 14 12 17.1 36.3N 141.0E 50 4.1b,3.7s
BJI X 20 14 12 18.0 36.34N 140.28E 44 4.8b
NEIC Felt I=II J1 in many parts of Ibaraki Prefecture. Also felt II J1 in southern Fukushima and western Tochigi Prefectures.
JMA Nodal plane solution: N102, Score 94%. NP1:ϕ_S209°,δ28°,λ88°. NP2:ϕ_S32°,δ62°,λ92°. Principle axes: T Plg73°,Azm304°; N Plg1°,Azm211°; P Plg17°,Azm121°.

(244) Taiwan

ISC X 20 14 16 34±1.0 24.37N±.045 121.8E±.12 21 16 0-2
TAP X 20 14 16 34.5 24.42N 121.76E 21 3.8L ¶97x3516
TAP Felt I=IV J

(244) Taiwan

ISC X 20 16 36 08±1.1 24.38N±.056 121.8E±.14 20±16 13 0-1
TAP X 20 16 36 08.4 24.42N 121.74E 18 2.9L ¶97x3527
TAP Felt I=III J

(244) Taiwan

ISC X 20 16 54 01.4±.93 24.41N±.060 121.7E±.15 12±10 10 0-1
TAP X 20 16 54 01.0 24.42N 121.76E 21 2.7L ¶97x3529
TAP Felt I=II J

(135) Near coast of Central Chile

ISC X 20 17 46 15.9±.98 30.90S±.061 71.3W±.11 76±9.0 4.0b 40 2-151
GUC X 20 17 46 12.7 30.92S 71.63W 10 4.7D ¶97x3536
NEIC X 20 17 46 13.7 30.77S 71.45W 57 4.4b
EIDC X 20 17 46 15.5 30.9S 71.3W 60 4.0b,3.3s
NEIC Felt I=III MM at Coquimbo, La Serena, Ovalle, Paihuano and Punitaqui.

(244) Taiwan

ISC X 20 17 52 20±1.7 24.4N±.11 121.8E±.17 20±22 11 0-1
TAP X 20 17 52 20.1 24.43N 121.74E 21 3.1L ¶97x3537
TAP Felt I=III J

(228) Near east coast of Honshū

ISC X 20 18 38 53±1.4 38.85N±.056 142.2E±.17 52±10 3.8b 28 1-68
JMA X 20 18 38 53.6±.1 38.85N±.01 142.15E±.02 50±2 3.9 ¶97x3545
NEIC X 20 18 38 56.1 38.79N 142.12E 79
EIDC X 20 18 38 58.3 38.8N 142.1E 79 3.6b
JMA Felt I=II J1
NEIC Less reliable solution.
NEIC Felt I=II J in southeastern Iwate Prefecture.

(244) Taiwan

ISC X 20 23 18 59±1.1 24.39N±.059 121.8E±.15 21 11 0-1
TAP X 20 23 18 58.8 24.42N 121.74E 21 2.8L ¶97x3569
TAP Felt I=III J

(323) Northern China

ISC X 21 06 32 34.6±.19 41.11N±.030 107.26E±.043 22 4.8b,4.6s 155 2-147
BJI X 21 06 32 33.2 41.23N 107.24E 22 5.2L,4.8b ¶97x3619
NEIC X 21 06 32 34.7 41.13N 107.21E 24 5.1b,4.5s
MOS X 21 06 32 34.9 41.1N 107.5E 33 5.2b,4.8s
EIDC X 21 06 32 36.5 41.1N 107.4E 24 4.5b,4.4s
HRVD X 21 06 32 36.7±1.0 41.02N±.14 107.42E±.20 24
BJI Ms4.9
NEIC Mw4.9(HRV)
NEIC Some damage in the Urad area.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.48±.56; $M_{\theta\theta}$1.79±.38; $M_{\phi\phi}$−0.31±.57; $M_{r\theta}$0.09±1.04; $M_{r\phi}$−0.12±.85; $M_{\theta\phi}$2.18±.61. Principal Axes: T 3.16,Plg0°,Azm148°; N −1.39, Plg62°,Azm58°; P −1.76,Plg28°,Azm238°. Best double couple: $M_0$2.5×10^{16}Nm, NP1: ϕ_S279°,δ71°,λ−21°. NP2:ϕ_S16°,δ71°,λ−159°.

(235) Kyūshū

ISC X 21 07 46 10.4±.63 32.72N±.063 131.96E±.063 51±12 3.3b 21 0-57
JMA X 21 07 46 10.6±.0 32.73N±.00 131.94E±.01 47±2 3.9 ¶97x3623
EIDC X 21 07 46 13.1 32.8N 131.9E 51 3.8L,3.0b
JMA Felt I=II J1

(227) Honshū

ISC X 21 10 55 24.9±.47 35.05N±.048 138.18E±.061 42±4.9 4.1b,3.8s 41 0-93
EIDC X 21 10 55 20.4 35.0N 138.1E 0 4.1b,3.9s ¶97x3640
BJI X 21 10 55 23.4 35.09N 138.35E 39 4.5b
NEIC X 21 10 55 23.6 34.96N 138.12E 33 4.0b
JMA X 21 10 55 25.5±.0 35.11N±.00 138.23E±.00 33±1 4.3
NEIC Felt I=II J1 in many parts of Shizuoka Prefecture. Also felt II J1 in southeastern Aichi, southern Kanagawa and southern Nagano Prefectures.
JMA Nodal plane solution: N115, Score 93%. NP1:ϕ_S312°,δ17°,λ−159°. NP2:ϕ_S201°,δ84°,λ−73°. Principle axes: T Plg37°,Azm277°; N Plg16°,Azm19°; P Plg49°,Azm128°.

(135) Near coast of Central Chile

ISC X 21 14 29 17.4±.94 31.02S±.068 71.24W±.093 77±9.8 4.3b 47 2-165
GUC X 21 14 29 13.7 30.99S 71.64W 11 4.8D ¶97x3663
NEIC X 21 14 29 16.5 30.96S 71.27W 68 4.6b
EIDC X 21 14 29 17.6 31.1S 71.2W 65 4.1b
NEIC Felt I=IV MM at Canela, Combarbala, Illapel, Ovalle and Salamanca; III MM at Hurtado and Monte Patria.

(543) Germany

ISC X 21 16 44 40.1±.49 48.76N±.023 9.62E±.031 27±5.5 119 0-9
SZGRF X 21 16 44 39.4 48.8N 9.7E 10 4.0L ¶97x3680
NEIC X 21 16 44 39.5 48.74N 9.62E 20
LEDBW X 21 16 44 40.2 48.78N 9.69E 9 3.7L
STR X 21 16 44 40.6 48.76N 9.64E 10 4.0L
LDG X 21 16 44 41.7 48.8N 9.6E 3.9L
NEIC M_{L}4.1(CLL), M_{L}4.1(VIE)
NEIC ML 3.9 (FUR). Felt I=V MSK at Lorch and at Schwabisch Gmund.
LEDBW Felt I=V MSK

(381) Central Italy

ISC X 21 17 35 56.1±.88 42.98N±.034 12.87E±.063 8±7.3 34 0-7
NEIC X 21 17 35 54.7 42.88N 12.96E 10 ¶97x3687
ROM X 21 17 35 55.7 43.0N 12.9E 5 3.4D
LDG X 21 17 35 57.4 42.9N 13.0E 3.2L
NEIC M_{L}3.4(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(364) Greece

ISC X 21 17 57 46.2±.40 39.04N±.020 22.06E±.017 26±3.4 4.7b,4.4s 319 0-131
BJI X 21 17 57 44.1 38.66N 21.57E 45 4.8b,4.9s ¶97x3690
NEIC X 21 17 57 44.7 39.01N 22.06E 15 4.9b,4.4s
MOS X 21 17 57 45.4 39.0N 22.1E 18 5.3b,4.4s
ATH X 21 17 57 45.4 38.98N 22.11E 5 4.2L
EIDC X 21 17 57 46.2 39.0N 22.2E 17 4.5b,4.1s
THE X 21 17 57 46.5 39.0N 22.1E 14 4.2L
PDG X 21 17 57 47.1 38.9N 21.9E 9 4.6D
NEIC Felt in many parts of Thessalia.
ATH Felt in the regions of Evrytania, I=V−VI MCS at Karoplesio, Phournas, IV at Karpenisi, Raptopoulo, Anatoliki, Phrankista, Agrapha; in Phthiotida, V at Phteri, Makrakomi, Archani, Omvriaki, Giannitsou, IV−V at Ekkara, Agios−Georgios, IV at Lamia, Spercheiada, Phrantzis, Tymphristos, Skarpheia, Stirphaka, Palaiovracha, Platystomo, Perivoli, Pournari, Palamas, Mexiates, Mesopotamia, Bralos, Leianokladi, Kastri, Kolaka, Ladikou, Divri, Tragana, III at Ypati, Renkini, Pavliani, Xyniada, Megaplatanos, Mendenitsa, Mantasia, Karavomylos, Karyes, Karya−Lokridos, Kamena−Vourla, Zelio, Exarchos, Domokos, Atalanti, Agios−Konstantinos, Amphikleia; in Karditsa, IV at Anavra, Sophades, Palamas, Oxya, Mavrommati, Mitropoli, Karditsa, Anthiro, Agnantero, Neochori, III at Mouzaki, Phyllo, Kalliphonio, Drakotrypa, Artesiano, Karpochori; in Aitoloakarnania, IV at Pappadatos, III at Amphilochia, Vonitsa, Nafpaktos, Panaitolio; in Phokida, III at Delphoi, Galaxeidi, Desphina.

(244) Taiwan

ISC X 22 00 01 36±1.4 24.35N±.094 121.8E±.17 9±16 6 0-1
TAP X 22 00 01 35.4 24.36N 121.73E 13 2.4L ¶97x3721
TAP Felt I=II J

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
		(221) Kuril Islands						
ISC	**X**	**22 00 48 57.0**±.85	**49.65N**±.069	**156.04E**±.083	**56**±7.2	**4.4b,3.9s**	**65**	**1-146**
NEIC	X	22 00 48 56.1	49.73N	155.91E	49	4.6b		¶97x3732
SKHL	X	22 00 48 57.0	49.5N±.14	156.3E±.44	60±1			
MOS	X	22 00 48 57.1	49.6N	156.2E	55	4.6b		
KRSC	X	22 00 48 57.1	49.68N	156.14E	26	4.8b		
EIDC	X	22 00 48 57.9	49.7N	155.8E	48	4.0b,3.9s		
SKHL	$K_{10.5}$							
MOS	Felt I=II MSK at Severo−Kurilsk.							
		(244) Taiwan						
ISC	**X**	**22 00 50 00**±2.9	**24.4N**±.11	**121.8E**±.21	**21**±46		**6**	**0-1**
TAP	X	22 00 49 59.4	24.43N	121.74E	23	2.4_L		¶97x3733
TAP	Felt I=II J							
		(135) Near coast of Central Chile						
ISC	**X**	**22 04 32 26.2**±.89	**30.90S**±.056	**71.38W**±.093	**69**±8.9	**4.1b**	**41**	**2-147**
NEIC	X	22 04 32 24.1	30.88S	71.45W	51	4.7b		¶97x3750
EIDC	X	22 04 32 26.0	30.9S	71.4W	52	4.1b		
GUC	X	22 04 32 26.5	30.96S	71.73W	54	4.7_D		
NEIC	Felt I=IV MM at Los Vilos, Monte Patria, Punitaqui and Salamanca; III MM at Canela, Combarbala, Hurtado and Ovalle.							
		(135) Near coast of Central Chile						
ISC	**X**	**22 06 26 50**±1.2	**31.91S**±.089	**71.6W**±.14	**81**±16	**4.1b**	**29**	**1-152**
NEIC	X	22 06 26 47.3	31.84S	71.62W	50	4.6b		¶97x3759
EIDC	X	22 06 26 50.8	32.0S	71.4W	71	3.9b		
GUC	X	22 06 26 51.4	32.04S	71.63W	40	4.5_D		
NEIC	Less reliable solution.							
NEIC	Felt I=V MM at Illapel; IV MM at Los Vilos, Monte Patria, Punitaqui and Salamanca; III MM at Canela, Combarbala, Hurtado, Ovalle, Panquehue, Quillota, San Felipe and Santa Maria; II MM at Hijuelas.							
		(358) Romania						
ISC	**X**	**22 07 48 59.5**±.37	**45.54N**±.043	**26.39E**±.087	**138**±5.1	**3.8b**	**36**	**0-129**
NEIC	X	22 07 48 59.8	45.52N	26.36E	140			¶97x3771
EIDC	X	22 07 49 00.7	45.5N	26.2E	131	3.6b		
BUC	X	22 07 49 01.1	45.49N	26.46E		4.2_D		
NEIC	Felt I=III MM in the epicentral area.							
		(221) Kuril Islands						
ISC	**X**	**22 09 55 48.8**±.27	**44.68N**±.023	**146.27E**±.030	**163**±2.5	**5.5b**	**647**	**1-154**
BJI	X	22 09 55 47.7	44.89N	146.18E	153	6.2b		¶97x3790
NEIC	X	22 09 55 47.7	44.72N	146.21E	154	5.5b		
SKHL	X	22 09 55 48.0	44.5N±.10	146.4E±.10	157±10			
EIDC	X	22 09 55 48.4	44.8N	145.9E	148	5.0b,4.6s		
JMA	X	22 09 55 49.4±.2	44.49N±.02	146.46E±.02	158±2	5.7		
MOS	X	22 09 55 49.5	45.1N	146.2E	154	5.8b		
HRVD	X	22 09 55 52.5±.3	44.83N±.03	146.40E±.04	161±.9			
NEIC	Mw5.6(GS), Mw5.6(HRV)							
NEIC	Felt I=II J1 in the Kushiro area, Hokkaido. Felt in many parts of southeastern Hokkaido and northern Honshu. Also felt II MSK at Yuzhno-Kurilsk, Kunashir.							
NEIC	Moment tensor solution: s11, scale 10^{17}Nm; M_{rr}−1.06; $M_{\theta\theta}$1.62; $M_{\phi\phi}$−0.56; $M_{r\theta}$−0.11; $M_{r\phi}$−1.74; $M_{\theta\phi}$0.95. Depth 149km; Principal axes: T 2.18,Plg16°,Azm151°; N 0.45,Plg39°, Azm47°; P −2.64,Plg47°,Azm259°. Best double couple: $M_0$2.4×10^{17}Nm; NP1:ϕ_S282°,δ44°, λ−27°. NP2:ϕ_S32°,δ71°,λ−131°.							
MOS	Felt I=I−II MSK at Yuzhno−Kurilsk.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c68; Mantle waves: s17,c17; Half duration: 1$\hat{s}$. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.03±.06; $M_{\theta\theta}$2.26±.08; $M_{\phi\phi}$−1.22±.09; $M_{r\theta}$−0.14±.06; $M_{r\phi}$−1.49±.06; $M_{\theta\phi}$0.91±.07. Principal Axes: T 2.56,Plg9°,Azm163°; N 0.13,Plg47°,Azm63°; P −2.69,Plg41°,Azm261°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S293°,δ55°,λ−26°. NP2:ϕ_S39°,δ69°,λ−142°.							
		(243) Taiwan region						
ISC	**X**	**22 11 10 08.9**±.41	**24.85N**±.061	**122.28E**±.046	**114**±5.9	**4.3b**	**37**	**0-50**
EIDC	X	22 11 10 02.1	24.3N	122.3E	0	$4.4b,4.4_L$		¶97x3796
BJI	X	22 11 10 02.8	24.58N	122.62E	23	3.6_L		
NEIC	X	22 11 10 03.3	24.44N	122.13E	33	4.5b		
JMA	X	22 11 10 10.8±.4	24.79N±.05	122.34E±.03	93±4			
TAP	X	22 11 10 11.0	24.77N	122.25E	95	4.7_L		
NEIC	Less reliable solution.							
TAP	Felt I=III J							
		(243) Taiwan region						
ISC	**X**	**22 11 16 27.6**±.40	**22.41N**±.028	**121.51E**±.035	**35**±3.8	**4.7b,4.3s**	**127**	**0-159**
BJI	X	22 11 16 25.0	22.50N	121.55E	16	4.6_L,4.4b		¶97x3798
TAP	X	22 11 16 26.6	22.44N	121.46E	10	5.3_L		
NEIC	X	22 11 16 26.8	22.37N	121.61E	33	4.9b,4.5s		
JMA	X	22 11 16 30.1±.4	22.52N±.03	121.64E±.03	48	4.6		
EIDC	X	22 11 16 30.1	22.4N	121.6E	46	4.1b,4.3s		
BJI	Ms4.3							
TAP	Felt I=II J Taitung, Tawu, Chengkung, Hengchun, Kaohsiung, Chiayi, Lanyu, I Alishan							
		(43) Southern California						
ISC	**X**	**22 14 09 58.5**±.79	**34.28N**±.059	**116.46W**±.045	**2**±9.1		**23**	**0-2**
NEIC	X	22 14 09 59.4	34.30N	116.45W	6			¶97x3830
NEIC	M_L3.0(PAS). Felt, After PAS.							
NEIC	Felt in the Landers and Yucca Valley areas.							
		(676) Alaska						
ISC	**X**	**22 17 17 17.4**±.71	**66.44N**±.049	**154.8W**±.12	**16**	**3.6b**	**62**	**1-80**
NEIC	X	22 17 17 20.6	66.32N	154.47W	16			¶97x3855
EIDC	X	22 17 17 22.1	66.3N	153.9W	0	$3.6b,4.1_L$		
NEIC	M_L4.4(PMR), M_L4.3(AEIC). Felt, After AEIC.							
NEIC	Felt at Hughes.							
		(244) Taiwan						
ISC	**X**	**22 19 01 45.9**±.42	**24.18N**±.046	**121.88E**±.045	**80**±8.5	3.1b	**39**	**0-49**
BJI	X	22 19 01 39.4	23.95N	122.11E	22	3.5_L		¶97x3873
EIDC	X	22 19 01 45.7	23.5N	123.3E	0	$3.2b,4.0_L$		
TAP	X	22 19 01 47.2	24.13N	121.88E	52	4.5_L		
JMA	X	22 19 01 47.4±.4	24.30N±.05	121.94E±.03	76	4.0		
TAP	Felt I=III J, II Chiawan, Hwalien, I Suao, Neicheng, Tachien							
		(381) Central Italy						
ISC	**X**	**22 20 06 45**±1.0	**42.83N**±.041	**12.91E**±.056	**11**±8.4		**41**	**0-7**
ROM	X	22 20 06 43.7	42.9N	13.0E	5	3.4_D		¶97x3878
NEIC	X	22 20 06 44.1	42.76N	12.91E	10			
LDG	X	22 20 06 44.5	42.8N	13.2E		3.2_L		
NEIC	M_L3.6(VIE)							
NEIC	Felt I=V MCS in the epicentral area.							
		(381) Central Italy						
ISC	**X**	**22 20 12 16**±3.3	**42.82N**±.043	**12.82E**±.064	**15**±28		**32**	**0-7**
LDG	X	22 20 12 14.1	42.7N	13.2E		3.0_L		¶97x3879
ROM	X	22 20 12 14.8	42.9N	13.0E	5	3.1_D		
NEIC	X	22 20 12 16.9	43.01N	12.73E	10			
NEIC	M_L3.2(VIE). Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
		(285) Sumbawa region						
ISC	**X**	**23 01 16 01.5**±.34	**8.64S**±.029	**117.01E**±.028	**160**±3.4	**5.3b**	**319**	**1-154**
BJI	X	23 01 16 01.8	8.70S	117.00E	160	5.4b		¶97x3905
NEIC	X	23 01 16 01.8	8.67S	117.02E	160	5.5b		
MOS	X	23 01 16 02.1	8.7S	116.9E	171	5.7b		
EIDC	X	23 01 16 02.8	8.7S	117.0E	154	5.0b		
HRVD	X	23 01 16 04.3±.2	8.77S±.02	116.95E±.03	154±.9			
NEIC	Mw5.7(HRV)							
NEIC	Felt I=III MM at Denpasar, Bali; Mataram, Lombok; and Waingapu, Sumba. Also felt II MM at Ruteng, Flores.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c81; Half duration: 1$\hat{s}$6. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.82±.07; $M_{\theta\theta}$1.00±.08; $M_{\phi\phi}$−0.18±.10; $M_{r\theta}$3.49±.06; $M_{r\phi}$−0.22±.08; $M_{\theta\phi}$0.63±.09. Principal Axes: T 3.73,Plg37°,Azm353°; N −0.12, Plg11°,Azm91°; P −3.61,Plg51°,Azm195°. Best double couple: $M_0$3.7×10^{17}Nm, NP1:ϕ_S35°, δ13°,λ−147°. NP2:ϕ_S273°,δ83°,λ−79°.							
		(381) Central Italy						
ISC	**X**	**23 03 18 05**±1.0	**42.97N**±.049	**12.75E**±.072	**14**±8.0		**23**	**0-7**
LDG	X	23 03 18 04.0	42.9N	13.1E		3.0_L		¶97x3918
NEIC	X	23 03 18 08.1	43.28N	12.50E	10			
NEIC	M_D2.9(ROM). Less reliable solution.							
NEIC	ML 2.5 (VIE). Felt I=III MCS in the epicentral area.							
		(2) Southern Alaska						
ISC	**X**	**23 06 26 41.1**±.16	**61.32N**±.022	**150.35W**±.038	**65**±2.4	**4.4b**	**172**	**0-151**
NEIC	X	23 06 26 42.7	61.35N	150.41W	44	4.6b		¶97x3936
EIDC	X	23 06 26 42.9	61.4N	150.7W	61	4.0b,3.3s		
NEIC	M_L4.4(AEIC), M_L4.3(PMR). Felt I=III MM, After AEIC.							
NEIC	Felt I=III MM at Anchorage, Eagle River and Palmer.							
		(381) Central Italy						
ISC	**X**	**23 08 58 43.7**±.83	**43.06N**±.029	**12.88E**±.036	**2**±7.0		**84**	**0-8**
ROM	X	23 08 58 42.8	43.0N	13.0E	5	3.6_D		¶97x3954
LDG	X	23 08 58 43.7	42.9N	13.2E		3.9_L		
NEIC	X	23 08 58 45.0	43.09N	12.83E	10			
STR	X	23 08 58 51.3	43.45N	12.65E	10	4.0_L		
NEIC	M_L4.3(VIE)							
NEIC	Felt I=V MCS in the epicentral area.							
		(244) Taiwan						
ISC	**X**	**23 11 15 17**±1.1	**24.45N**±.082	**121.7E**±.14	**11**		**6**	**0-1**
TAP	X	23 11 15 16.0	24.45N	121.74E	11	2.4_L		¶97x3979
TAP	Felt I=III J							
		(544) Switzerland						
ISC	**X**	**23 12 07 01.1**±.28	**47.24N**±.027	**8.47E**±.038	**30**		**72**	**0-8**
LEDBW	X	23 12 06 59.8	47.11N	8.63E	10	3.1_L		¶97x3990
STR	X	23 12 07 01.0	47.21N	8.58E	10	3.0_L		
ZUR	X	23 12 07 01.5	47.18N	8.63E	30	3.2_L		
NEIC	X	23 12 07 01.6	47.24N	8.51E	37			
LDG	X	23 12 07 02.5	47.2N	8.5E		3.2_L		
ROM	X	23 12 07 08.5	46.5N	9.0E	5	2.9_D		
NEIC	M_L3.1(FBB).							
NEIC	ML 3.0 (VIE).							
NEIC	Felt I=V MSK at Lorch and Schwaebis (after UBR)							
		(318) Yunnan Province						
ISC	**X**	**23 12 28 34.4**±.79	**26.97N**±.031	**100.39E**±.038	**40**±7.8	**4.9b,4.6s**	**190**	**3-149**
EIDC	X	23 12 28 30.0	26.9N	100.4E	0	4.7b,4.4s		¶97x3993
BJI	X	23 12 28 32.3	27.00N	100.38E	23	4.7_L,5.2b		
NEIC	X	23 12 28 33.4	27.00N	100.39E	33	5.1b,4.6s		
MOS	X	23 12 28 33.9	27.0N	100.5E	33	5.5b,4.6s		
HRVD	X	23 12 28 38.2±.9	27.14N±.15	100.55E±.20	15			
BJI	Ms5.3							
NEIC	Mw5.1(HRV)							
NEIC	Some damage to houses in the Lijiang area.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c18; Half duration: 1$\hat{s}$0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.36±.36; $M_{\theta\theta}$0.12±.41; $M_{\phi\phi}$3.24±.51; $M_{r\theta}$0.31±1.62; $M_{r\phi}$−4.49±2.97; $M_{\theta\phi}$−1.03±.36. Principal Axes: T 5.71,Plg26°,Azm78°; N −0.08,Plg7°,Azm171°; P −5.64,Plg63°,Azm274°. Best double couple: $M_0$5.7×10^{16}Nm, NP1: ϕ_S153°,δ20°,λ−110°. NP2:ϕ_S353°,δ72°,λ−83°.							
		(233) Near south coast of Southern Honshū						
ISC	**X**	**23 17 18 06.5**±.86	**34.69N**±.066	**135.19E**±.082	**14**		**10**	**0-3**
JMA	X	23 17 18 06.6±.0	34.70N±.00	135.20E±.00	14±1	3.5		¶97x4033
JMA	Felt I=II J1							
JMA	Nodal plane solution: N52, Score 96%. NP1:ϕ_S260°,δ46°,λ141°. NP2:ϕ_S20°,δ63°,λ52°. Principle axes: T Plg55°,Azm240°; N Plg33°,Azm39°; P Plg10°,Azm136°.							
		(381) Central Italy						
ISC	**X**	**23 19 04 54**±1.0	**42.98N**±.045	**12.76E**±.056	**15**±7.6		**33**	**0-7**
ROM	X	23 19 04 52.0	43.0N	12.9E	5	3.2_D		¶97x4050
NEIC	X	23 19 04 53.1	42.99N	12.72E	10			
LDG	X	23 19 04 53.9	43.0N	12.9E		3.1_L		
NEIC	M_L3.3(VIE). Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
		(243) Taiwan region						
ISC	**X**	**23 20 50 00**±1.0	**24.58N**±.085	**122.17E**±.054	**69**±17		**22**	**0-3**
JMA	X	23 20 50 00.4±.6	24.70N±.07	122.23E±.04	64	3.8		¶97x4061
TAP	X	23 20 50 01.3	24.63N	122.13E	53	4.0_L		
TAP	Felt I=II J							
		(383) Northwestern Balkan region						
ISC	**X**	**24 07 36 47.9**±.47	**45.97N**±.043	**14.34E**±.047	**10**		**22**	**0-5**
ROM	X	24 07 36 47.0	46.3N	14.4E	10	3.2_D		¶97x4121
LJU	X	24 07 36 47.5	46.0N	14.3E	14			
NEIC	X	24 07 36 48.2	45.95N	14.31E	10			
LJU	Felt I=IV−V EMS in Butajnova, Slovenia							
NEIC	M_L3.1(VIE), M_L2.6(LJU)							
NEIC	Felt I=IV MM at Horjul and Vrhnika, Slovenia.							
		(244) Taiwan						
ISC	**X**	**24 08 10 47**±1.1	**24.39N**±.075	**121.8E**±.13	**23**±15		**10**	**0-1**
TAP	X	24 08 10 46.8	24.42N	121.73E	26	3.2_L		¶97x4124
TAP	Felt I=III J							
		(507) Alabama						
ISC	**X**	**24 08 35 18.6**±.34	**31.19N**±.045	**87.20W**±.031	**10**	**4.8b,4.3s**	**136**	**4-148**
NEIC	X	24 08 35 17.8	31.12N	87.34W	10	4.8b,4.2s		¶97x4128
EIDC	X	24 08 35 18.7	31.1N	87.2W	0	$4.6b,4.7_L$		
NEIC	mbLg4.9(GS)							
NEIC	Felt I=VI MM at Brewton, Canoe and Lambeth; V MM at Atmore, Flomaton, Frisco City and Huxford; IV MM at Perdido and Robinsonville; III MM at Butler, Demopolis, Goodway, Mobile and Uriah. Felt V MM at Century; IV MM at McDavid, Pensacola and Walnut Hill; III MM at Milton, Florida. Felt IV MM at Leakesville, Mississippi. Also felt at Megargel; Elgin AFB, Florida; Biloxi and Gulfport, Mississippi.							
		(656) Eastern Russia						
ISC	**X**	**24 11 50 17.5**±.96	**57.23N**±.052	**120.17E**±.075	**47**±10	**4.3b,4.4s**	**76**	**3-86**
NEIC	X	24 11 50 12.6	57.28N	120.11E	10	4.7b		¶97x4158
MOS	X	24 11 50 13.3	57.4N	120.3E	10	4.9b,4.6s		
EIDC	X	24 11 50 13.4	57.3N	120.4E	0	4.2b,4.3s		
NEIC	Felt I=V MM at Khani.							

(135) Near coast of Central Chile

ISC	**X**	**24 20 23 45.6**±.95	**30.04S**±.054	**71.56W**±.090	**49**±9.8	**4.5b,3.8s**	**55**	**3-166**	
EIDC	X	24 20 23 42.7	30.1S	71.6W	17	4.5b,3.8s			¶97x4218
NEIC	X	24 20 23 43.5	30.07S	71.57W	33	4.7b			

NEIC Felt I=IV MM at Andacollo, Coquimbo, La Serena, Monte Patria and Ovalle; III MM at Illapel, Salamanca and Vicuna; II MM at Santiago and Vallenar.

(243) Taiwan region

ISC	**X**	**25 02 40 16.2**±.35	**24.29N**±.031	**122.15E**±.041	**53**±4.5	**4.1b**,3.6s	**65**	**0-83**	
NEIC	X	25 02 40 14.2	24.32N	122.11E	33	4.5b			¶97x4257
JMA	X	25 02 40 14.5±.7	24.84N±.07	122.10E±.05	33	4.4			
TAP	X	25 02 40 15.9	24.29N	122.11E	13	4.8L			
BJI	X	25 02 40 15.9	24.52N	121.90E	13	4.4L,4.4b			
EIDC	X	25 02 40 16.7	24.3N	122.1E	39	3.8b,4.1L			

NEIC Less reliable solution.
TAP Felt I=III J, I Ilan, Neicheng
BJI Ms4.4

(224) Hokkaido region

ISC	**X**	**25 02 55 59.4**±.63	**43.42N**±.047	**142.40E**±.062	**0**		**12**	**0-1**	
JMA	X	25 02 55 59.8±.0	43.41N±.00	142.38E±.00	0	3.5			¶97x4259

JMA Felt I=II J1

(381) Central Italy

ISC	**X**	**25 03 08 05.4**±.55	**42.83N**±.019	**13.04E**±.021	**6**±4.2	**4.3b,3.9s**	**214**	**0-88**	
PDG	X	25 03 08 04.7	42.3N	13.0E	11	4.1L			¶97x4261
ROM	X	25 03 08 04.9	42.8N	13.1E	5	4.0D			
NEIC	X	25 03 08 06.1	42.84N	13.01E	10	4.4b			
STR	X	25 03 08 06.4	42.78N	13.15E	6	4.5L			
LDG	X	25 03 08 06.4	42.8N	13.3E		4.0L			
EIDC	X	25 03 08 09.4	42.8N	13.1E	19	3.9b,3.8s			

NEIC $M_{L4.6}$(VIE)
NEIC Felt I=VI MCS in the epicentral area.

(244) Taiwan

ISC	**X**	**25 04 07 39**±1.5	**24.38N**±.064	**121.8E**±.16	**9**±11		**9**	**0-1**	
TAP	X	25 04 07 38.4	24.37N	121.85E	12	2.7L			¶97x4269

TAP Felt I=II J

(246) South-western Ryūkyū Islands

ISC	**X**	**25 06 45 43**±1.5	**24.5N**±.14	**123.74E**±.092	**7**		**4**	**0-1**	
JMA	X	25 06 45 43.9±.1	24.45N±.01	123.75E±.01	7±2	3.2			¶97x4288

ISC Poorly determined
JMA Felt I=II J1

(381) Central Italy

ISC	**X**	**25 08 49 02.3**±.63	**42.90N**±.034	**12.90E**±.066	**6**±6.9		**29**	**0-7**	
ROM	X	25 08 49 01.9	42.9N	13.0E	7	3.3D			¶97x4301
NEIC	X	25 08 49 02.3	42.88N	12.91E	10				
LDG	X	25 08 49 06.0	42.7N	12.8E		3.2L			

NEIC Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.

(36) Northern California

ISC	**X**	**25 08 54 48.8**±.68	**39.61N**±.028	**122.13W**±.048	**19**±8.1	**3.7b**	**50**	**0-71**	
EIDC	X	25 08 54 48.0	39.8N	122.1W	0	3.1L,3.8b			¶97x4302
NEIC	X	25 08 54 49.3	39.60N	122.07W	13				

NEIC M_L3.9(GS), Mw3.8(BRK). Felt, After GM−P.
NEIC MD 3.8 (GM). ML 3.9 (BRK). Felt in the Willows area. Mo=5.6×10^{14}Nm (BRK).

(163) Cook Strait, New Zealand

ISC	**X**	**25 08 57 52.1**±.48	**41.11S**±.054	**174.78E**±.062	**33**±5.4		**19**	**0-3**	
NEIC	X	25 08 57 51.9	41.07S	174.79E	33				¶97x4303
WEL	X	25 08 57 52.3	41.07S	174.80E	30	3.7L			

NEIC Felt at Whitby on the North Island.

(135) Near coast of Central Chile

ISC	**X**	**25 20 59 02.3**±.86	**32.12S**±.055	**71.46W**±.094	**55**±8.3	**4.4b**,4.0s	**43**	**1-152**	
NEIC	X	25 20 59 01.3	32.10S	71.46W	46	4.5b			¶97x4374
EIDC	X	25 20 59 02.2	32.1S	71.5W	40	4.2b,4.0s			
GUC	X	25 20 59 02.3	32.21S	71.57W	29	4.8D			

NEIC Less reliable solution.
NEIC Felt I=IV MM on Isla Cachagua. Also felt IV MM at Canela, Illapel, Los Vilos and Salamanca; III MM at Papudo, Quintero, Vina del Mar and Zapallar; II MM at Monte Patria and Quilpue.
EIDC Multiple, mixed az

(122) Near coast of Northern Chile

ISC	**X**	**26 01 35 36.7**±.79	**26.34S**±.040	**70.15W**±.051	**45**±8.0	**5.0b,4.6s**	**146**	**3-172**	
EIDC	X	26 01 35 36.6	26.3S	70.1W	32	4.6b,4.5s			¶97x4400
BJI	X	26 01 35 38.2	26.30S	70.20W	58				
NEIC	X	26 01 35 38.2	26.33S	70.15W	58	5.1b			
HRVD	X	26 01 35 46.4±.4	26.47S±.04	70.50W±.08	66±5.1				
GUC	X	26 01 36 39.1	30.95S	71.34W	28	5.0D			

NEIC Mw5.3(HRV)
NEIC Felt I=VI MM at Inca de Oro; V MM at Caldera, Copiapo, El Salvador, Paipote and Potrerillos; IV MM at Chanaral and Taltal.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c38; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.97±.50; $M_{\theta\theta}$5.98±.74; $M_{\phi\phi}$−1.01±1.04; $M_{r\theta}$2.04±.72; $M_{r\phi}$6.39±.45; $M_{\theta\phi}$−2.41±.59. Principal Axes: T 6.7,Plg1°,Azm17°; N 3.5, Plg38°,Azm287°; P −10.3,Plg52°,Azm108°. Best double couple: M0 8.5×10^{16}Nm, NP1: ϕ_S139°,δ56°,λ−42°. NP2:ϕ_S255°,δ57°,λ−138°.

(43) Southern California

ISC	**X**	**26 04 02 40.0**±.83	**34.24N**±.038	**118.72W**±.059	**11**±7.3		**29**	**0-4**	
NEIC	X	26 04 02 40.9	34.26N	118.71W	14				¶97x4414

NEIC M_L3.1(PAS). Felt, After PAS.
NEIC Felt at Simi Valley.

(383) Northwestern Balkan region

ISC	**X**	**26 09 28 17.3**±.27	**46.29N**±.022	**14.44E**±.032	**10**		**93**	**0-9**	
LJU	X	26 09 28 16.9	46.3N	14.5E	17				¶97x4442
NEIC	X	26 09 28 17.0	46.29N	14.38E	10				
ROM	X	26 09 28 17.9	46.5N	14.5E	10	3.5D			
LDG	X	26 09 28 18.0	46.3N	14.7E		3.2L			
SZGRF	X	26 09 28 20.8	46.5N	14.7E	10	3.6L			

LJU Felt I=IV−V EMS in Potoce, Zgornja Bela Kranju, Slovenia Felt I=IV−V EMS in Potoce, Visoko pri Kranju, Slovenia
NEIC $M_{L3.5}$(VIE), $M_{L3.3}$(FUR)
NEIC ML 3.3 (LJU). Felt I=IV MM at Domzale, Kranj, Naklo and Trzin; III MM at Ljubljana, Slovenia. Also felt IV MM at Zell Pfarre, Austria.

(34) Off coast of Northern California

ISC	**X**	**26 10 44 05.4**±.25	**41.06N**±.022	**125.21W**±.039	**5**	**5.0b,4.7s**	**222**	**1-153**	
EIDC	X	26 10 44 07.5	41.1N	125.2W	0	4.6b,4.6s			¶97x4451
BJI	X	26 10 44 08.0	41.00N	125.20W	5	5.0b,5.2s			
NEIC	X	26 10 44 08.0	41.00N	125.17W	5	5.1b,4.8s			
HRVD	X	26 10 44 11.2±.6	41.10N±.06	125.21W±.08	15				

NEIC Mw5.4(HRV), M_D5.2(GM). Felt, After GM−P.
NEIC Mw 5.2 (BRK). ML 5.2 (BRK). Felt at Arcata, Big Lagoon, Eureka, Ferndale, Fields Landing, Fortuna, Jedediah Smith Redwoods State Park, McKinleyville and Petrolia.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c37; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.15±.04; $M_{\theta\theta}$−1.14±.05; $M_{\phi\phi}$0.99±.06; $M_{r\theta}$0.21±.20; $M_{r\phi}$0.68±.19; $M_{\theta\phi}$0.34±.07. Principal Axes: T 1.42,Plg29°,Azm280°; N −0.23, Plg61°,Azm88°; P −1.20,Plg5°,Azm187°. Best double couple: M0 1.3×10^{17}Nm, NP1:ϕ_S320°, δ66°,λ162°. NP2:ϕ_S57°,δ74°,λ25°.

(613) Hawaiian Islands

ISC	**X**	**26 13 36 01.9**±.48	**19.39N**±.058	**155.49W**±.056	**31**		**19**	**0-3**	
NEIC	X	26 13 36 02.9	19.30N	155.35W	31				¶97x4467

NEIC M_D4.2(HVO). Felt, After HVO.
NEIC Felt in many parts of the Island of Hawaii including Fern Forest, Glenwood, Hilo, Holualoa, Honokaa, Kurtistown, Mauna Loa Estates, Orchidland Estates and Paauilo.

(383) Northwestern Balkan region

ISC	**X**	**26 18 12 46**±1.2	**43.74N**±.053	**16.4E**±.14	**10**		**21**	**1-9**	
NEIC	X	26 18 12 43.1	43.67N	16.59E	10				¶97x4508
ROM	X	26 18 12 48.2	43.8N	16.5E	10	3.3D			
LDG	X	26 18 12 52.9	43.6N	16.0E		3.0L			

NEIC Poor solution.
ZAG Felt in Sinj, Muc and Neoric, Croatia (after HVAR)

(227) Honshū

ISC	**X**	**26 19 06 43.6**±.23	**39.30N**±.024	**140.48E**±.030	**125**±2.3	**5.2b**	**409**	**0-163**	
BJI	X	26 19 06 43.1	39.39N	140.54E	137	5.3b			¶97x4513
EIDC	X	26 19 06 43.8	39.3N	140.5E	115	4.9b			
MOS	X	26 19 06 43.9	39.5N	140.5E	120	5.2b			
JMA	X	26 19 06 44.3±.1	39.32N±.00	140.62E±.01	120±2	5.1			
NEIC	X	26 19 06 44.4	39.30N	140.46E	134	5.2b			
HRVD	X	26 19 06 46.4±.6	39.27N	140.50E	126±2.5				

JMA Nodal plane solution: N144, Score 99%. NP1:ϕ_S136°,δ65°,λ153°. NP2:ϕ_S238°,δ65°,λ28°. Principle axes: T Plg37°,Azm97°; N Plg53°,Azm277°; P Plg0°,Azm7°.
JMA Felt I=III J1
NEIC Mw5.6(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c20; Mantle waves: s3,c3; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}1.85±.16; $M_{\theta\theta}$−3.03±.29; $M_{\phi\phi}$1.18±.35; $M_{r\theta}$0.14±.15; $M_{r\phi}$−0.55±.18; $M_{\theta\phi}$−0.40±.23. Principal Axes: T 2.18,Plg60°,Azm83°; N 0.89,Plg30°,Azm265°; P −3.07,Plg1°,Azm175°. Best double couple: M0 2.6×10^{17}Nm, NP1:ϕ_S238°,δ51°,λ50°. NP2:ϕ_S111°,δ53°,λ129°.

(508) Western Florida

ISC	**X**	**26 23 27 09**±2.6	**30.8N**±.22	**87.47W**±.094	**10**		**14**	**4-17**	
NEIC	X	26 23 27 12.0	31.10N	87.30W	10				¶97x4534

NEIC mbLg3.7(GS). Felt, After SPEC.
NEIC Felt at Atmore, Flomaton and Huxford. Held to mainshock location.

(244) Taiwan

ISC	**X**	**27 03 11 55**±3.0	**24.4N**±.11	**121.9E**±.30	**17**		**5**	**0-1**	
TAP	X	27 03 11 54.2	24.44N	121.78E	17	2.6L			¶97x4559

TAP Felt I=III J

(13) Kodiak Island region

ISC	**X**	**27 03 51 31.8**±.66	**57.66N**±.061	**152.61W**±.069	**43**±5.8	**3.9b**	**61**	**0-84**	
NEIC	X	27 03 51 32.2	57.54N	152.69W	40	4.1b			¶97x4564
EIDC	X	27 03 51 33.3	57.8N	152.9W	36	3.7b,3.8L			

NEIC M_L3.9(PMR), M_L3.8(AEIC). Felt I=IV MM, After AEIC.
NEIC Felt I=IV MM at Kodiak.

(177) Kermadec Islands region

ISC	**X**	**27 09 33 01.2**±.16	**31.09S**±.034	**178.40W**±.044	**52**±2.7*	**5.4b,5.4s**	**434**	**2-173**	
BJI	X	27 09 32 58.7	30.79S	178.30W	32	5.4b,5.6s			¶97x4594
NEIC	X	27 09 32 59.5	30.76S	178.45W	33	5.5b,5.4s			
MOS	X	27 09 33 00.1	30.7S	178.3W	33	5.9b,5.5s			
EIDC	X	27 09 33 04.1	30.7S	178.2W	55	4.9b,5.4s			
HRVD	X	27 09 33 07.3±.1	30.81S±.01	178.04W±.01	46±1.0				

NEIC Mw5.9(HRV).
NEIC Mo=7.9×10^{17}Nm (PPT).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c119; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}5.63±.07; $M_{\theta\theta}$0.95±.10; $M_{\phi\phi}$−6.58±.11; $M_{r\theta}$1.56±.11; $M_{r\phi}$4.46±.13; $M_{\theta\phi}$−1.83±.10. Principal Axes: T 7.22,Plg71°,Azm298°; N 1.34, Plg4°,Azm195°; P −8.56,Plg18°,Azm104°. Best double couple: M0 7.9×10^{17}Nm, NP1: ϕ_S187°,δ27°,λ81°. NP2:ϕ_S18°,δ63°,λ95°.
WEL Felt I=IV MM at Raoul Island

(39) Central California

ISC	**X**	**27 14 30 50.1**±.70	**37.73N**±.048	**122.57W**±.070	**20**±6.2		**24**	**0-3**	
NEIC	X	27 14 30 50.6	37.73N	122.55W	10				¶97x4618

NEIC M_L3.1(GS), M_D2.9(GM). Felt, After GM−P.
NEIC ML 3.0 (BRK). Felt at Daly City, Noe Valley, Pacific Heights, San Bruno and the San Francisco Zoo.

(7) Andreanof Islands

ISC	**X**	**27 22 35 03**±1.6	**51.5N**±.14	**176.41W**±.095	**48**±13	**4.4b,3.8s**	**40**	**0-152**	
EIDC	X	27 22 34 57.8	51.5N	176.3W	0	4.2b,3.7s			¶97x4667
NEIC	X	27 22 35 01.5	51.40N	176.37W	33	4.5b			
BJI	X	27 22 35 01.6	50.69N	176.84W	39	5.0b			

NEIC $M_{L4.5}$(PMR)
NEIC Felt I=III MM on Adak.

(381) Central Italy

ISC	**X**	**28 00 23 46.7**±.71	**42.96N**±.027	**12.73E**±.036	**2**±6.2		**93**	**0-9**	
ROM	X	28 00 23 46.5	43.0N	12.8E	9	3.3D			¶97x4675
LDG	X	28 00 23 47.2	42.9N	13.1E		3.4L			
NEIC	X	28 00 23 47.7	42.97N	12.70E	10				

NEIC $M_{L3.9}$(VIE)
NEIC Felt I=V MCS in the epicentral area.

(377) Spain

ISC	**X**	**28 00 43 05.5**±.70	**37.09N**±.058	**3.60W**±.063	**9**±7.0		**13**	**0-3**	
NEIC	X	28 00 43 05.5	37.09N	3.60W	10				¶97x4677
MDD	X	28 00 43 06.4	37.10N	3.60W	5	2.7			

NEIC mbLg2.7(MDD). Felt, Single network solution.
NEIC Felt at Cajar, Gojar and Ogijares.

(244) Taiwan

ISC	**X**	**28 02 30 31.1**±.62	**23.34N**±.034	**120.93E**±.050	**4**±7.7		**20**	**0-2**	
TAP	X	28 02 30 29.6	23.32N	120.94E	3	3.8L			¶97x4688

TAP Felt I=I J Alishan

(39) Central California

ISC	**X**	**28 04 06 57.4**±.56	**35.44N**±.030	**118.42W**±.044	**10**±5.3		**34**	**0-6**	
NEIC	X	28 04 06 57.9	35.45N	118.43W	7				¶97x4698

NEIC M_L3.5(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.

(381) Central Italy

ISC	**X**	**28 04 08 04.8**±.36	**43.14N**±.033	**12.66E**±.051	**10**		**42**	**0-7**	
ROM	X	28 04 08 04.2	43.2N	12.7E	10	3.3D			¶97x4700
NEIC	X	28 04 08 05.1	43.11N	12.60E	10				
LDG	X	28 04 08 07.0	43.1N	12.7E		3.1L			

NEIC $M_{L3.6}$(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(111) Northern Peru

ISC	**X**	**28 06 15 19.2**±.37	**4.35S**±.023	**76.68W**±.024	**128**±3.1	**6.5b**	**888**	**3-178**	
BJI	X	28 06 15 17.1	4.24S	76.73W	107				¶97x4719
NEIC	X	28 06 15 17.3	4.37S	76.68W	112	6.6b,6.3s			
MOS	X	28 06 15 17.4	4.3S	76.6W	111	6.8b			
EIDC	X	28 06 15 22.1	4.3S	76.6W	135	5.8b			
HRVD	X	28 06 15 28.4±.1	4.44S±.01	76.55W±.01	119±.2				

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
IGQ	X	28 06 15 32.4	3.6S	77.4W	80	6.5b		
NEIC	Mw7.2(HRV), Me6.7(GS). Damage.							
NEIC	Radiated energy from the P−wave first−motion solution: 2.9±0.3×10^{14}Nm/15							
NEIC	Mw 7.1 (GS). Mb 6.8 (BRK). Slight damage at Chachapoyas. Mo=6.0×10^{19}Nm (PPT).							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S355°,δ50°,λ−90°. NP2:ϕ_S175°,δ40°,λ−90°. Principal axes: T Plg5°,Azm85°; P Plg62°,Azm337°. Two events about 6.5 seconds apart. Depth from broadband displacement seismograms based on first event.							
NEIC	Moment tensor solution: s47, scale 10^{19}Nm; M_{rr}−3.81; $M_{\theta\theta}$−0.52; $M_{\phi\phi}$4.32; $M_{r\theta}$−0.87; $M_{r\phi}$1.29; $M_{\theta\phi}$−2.76. Depth 115km; Principal axes: T 5.82,Plg9°,Azm245°; N −1.74,Plg6°, Azm154°; P −4.08,Plg79°,Azm31°. Best double couple: $M_0$5.0×10^{19}Nm; NP1:ϕ_S343°,δ36°, λ−80°. NP2:ϕ_S150°,δ54°,λ−98°.							
EIDC	Multiple, same az							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c153; Mantle waves: s55,c146; Half duration: 9s8. Moment tensor: Scale 10^{19}Nm; M_{rr}−6.82±.03; $M_{\theta\theta}$0.60±.02; $M_{\phi\phi}$6.21±.03; $M_{r\theta}$−0.71±.02; $M_{r\phi}$1.52±.02; $M_{\theta\phi}$−2.64±.02. Principal Axes: T 7.46,Plg7°,Azm248°; N −0.44,Plg1°,Azm158°; P −7.01,Plg83°,Azm61°. Best double couple: $M_0$7.2×10^{19}Nm, NP1:ϕ_S339°,δ38°,λ−89°. NP2:ϕ_S158°,δ52°,λ−91°.							
	(381) Central Italy							
ISC	**X**	**28 07 42 00.6**±.68	**42.94N**±.036	**12.92E**±.057	**4**±6.7		**35**	**0-7**
NEIC	X	28 07 41 55.0	42.49N	13.37E	10			¶97x4726
ROM	X	28 07 42 00.3	43.0N	12.9E	10	3.1D		
LDG	X	28 07 42 00.7	42.9N	13.3E		3.4L		
NEIC	M_L3.5(VIE), Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
	(448) Gaspé Peninsula							
ISC	**X**	**28 11 44 17.7**±.47	**47.64N**±.039	**70.00W**±.054	**17**±4.4	**4.3b**	**66**	**0-151**
EIDC	X	28 11 44 17.2	47.6N	70.0W	0	4.2b,4.3L		¶97x4756
NEIC	X	28 11 44 18.0	47.67N	69.91W	12	4.8b		
OTT	X	28 11 44 18.7	47.7N	69.9W	11	4.7N		
NEIC	mbLg4.7(OTT). Felt, After OTT.							
OTT	Charlevoix Seismic Zone, Quebec. Felt in Charlevoix, Riviere−du−Loup, and in the Quebec City, Saguenay and Lac St−Jean regions. 18km east from La Malbaie, Quebec							
	(448) Gaspé Peninsula							
ISC	**X**	**28 11 45 48**±6.3	**47.7N**±.14	**69.9W**±.17	**15**±58		**6**	**0-1**
OTT	X	28 11 45 48.6	47.7N	69.9W	8	3.2N		¶97x4757
ISC	Poorly determined							
OTT	Felt Aftershock, Charlevoix Seismic Zone, Quebec							
	(244) Taiwan							
ISC	**X**	**29 03 41 09.8**±.59	**24.11N**±.049	**121.74E**±.057	**25**±6.8		**20**	**0-2**
JMA	X	29 03 41 09.9±.5	24.08N±.06	121.72E±.03	63	3.0		¶97x4848
TAP	X	29 03 41 10.1	24.18N	121.66E	22	3.8L		
TAP	Felt I=III J							
	(276) Sunda Strait							
ISC	**X**	**29 04 56 00.7**±.79	**6.30S**±.037	**104.15E**±.042	**64**±7.0	**5.3b**	**264**	**1-178**
BJI	X	29 04 55 58.0	6.24S	104.00E	38	5.5b,5.6s		¶97x4855
NEIC	X	29 04 55 58.7	6.38S	104.01E	45	5.3b,5.5s		
MOS	X	29 04 55 59.7	6.1S	104.0E	43	5.8b,5.2s		
EIDC	X	29 04 56 00.0	6.3S	103.9E	43	5.0b		
HRVD	X	29 04 56 02.4±.2	6.74S±.03	104.01E±.03	30±1.9			
NEIC	Mw5.6(HRV), Mw5.5(GS)							
NEIC	Felt I=II MM in southern Sumatera, Indonesia.							
NEIC	Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}1.51; $M_{\theta\theta}$−1.51; $M_{\phi\phi}$0.00; $M_{r\theta}$1.43; $M_{r\theta}$−0.27; $M_{\theta\phi}$−0.35. Depth 31km; Principal axes: T 2.15,Plg66°,Azm25°; N −0.05,Plg12°, Azm268°; P −2.11,Plg21°,Azm174°. Best double couple: $M_0$2.1×10^{17}Nm; NP1:ϕ_S243°,δ26°, λ63°. NP2:ϕ_S93°,δ67°,λ103°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c65; Mantle waves: s5,c6; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}1.94±.05; $M_{\theta\theta}$−1.82±.07; $M_{\phi\phi}$−0.12±.08; $M_{r\theta}$2.00±.19; $M_{r\theta}$−0.66±.13; $M_{\theta\phi}$1.26±.06. Principal Axes: T 2.81,Plg67°,Azm6°; N 0.51,Plg7°,Azm113°; P −3.31,Plg22°,Azm206°. Best double couple: $M_0$3.1×10^{17}Nm, NP1:ϕ_S309°,δ24°,λ108°. NP2:ϕ_S110°,δ67°,λ82°.							
	(381) Central Italy							
ISC	**X**	**29 07 35 05.6**±.61	**42.89N**±.036	**12.98E**±.069	**8**±6.0		**35**	**0-7**
LDG	X	29 07 35 01.9	42.6N	13.5E		3.4L		¶97x4876
ROM	X	29 07 35 05.3	42.9N	13.0E	7	3.3D		
NEIC	X	29 07 35 05.7	42.89N	12.98E	10			
NEIC	Felt I=IV MCS in the epicentral area.							
	(40) California-Nevada border region							
ISC	**X**	**29 10 00 27.5**±.35	**37.64N**±.033	**118.44W**±.037	**12**		**57**	**0-9**
NEIC	X	29 10 00 25.9	37.57N	118.41W	12			¶97x4891
NEIC	M_D4.0(GM), Mw3.7(BRK). Felt, After GM−P.							
NEIC	ML 3.8 (BRK), 3.9 (GS). Felt in the epicentral area.							
	(230) Near south coast of Honshū							
ISC	**X**	**29 10 18 02.5**±.76	**34.19N**±.059	**139.17E**±.090	**13**±5.5	**3.6b**	**15**	**0-93**
EIDC	X	29 10 18 02.2	34.1N	139.2E	0	3.5b,3.7L		¶97x4893
JMA	X	29 10 18 03.1±.1	34.23N±.01	139.14E±.01	7±2	3.3		
NEIC	X	29 10 18 05.0	34.12N	139.08E	33			
JMA	Felt I=III J1							
JMA	Nodal plane solution: N65, Score 98%. NP1:ϕ_S255°,δ60°,λ33°. NP2:ϕ_S148°,δ62°,λ147°. Principle axes: T Plg43°,Azm111°; N Plg47°,Azm293°; P Plg1°,Azm202°.							
NEIC	Less reliable solution.							
	(244) Taiwan							
ISC	**X**	**29 23 18 38**±1.0	**23.66N**±.032	**120.57E**±.042	**14**±9.0	**3.5b**	**38**	**0-49**
TAP	X	29 23 18 37.4	23.63N	120.60E	11	4.3L		¶97x4961
JMA	X	29 23 18 38.7±.3	23.71N±.07	120.50E±.03	116			
BJI	X	29 23 18 46.3	24.30N	120.15E	19	3.8L,3.4s		
EIDC	X	29 23 18 55.0	23.7N	121.0E	192	2.9b		
TAP	Felt I=V J, II Chiayi, Alishan							
	(378) Pyrenees							
ISC	**X**	**30 05 07 43.0**±.63	**42.73N**±.051	**0.15E**±.047	**8**±6.9		**23**	**0-4**
NEIC	X	30 05 07 42.8	42.68N	0.14E	5			¶97x4994
LDG	X	30 05 07 43.7	42.8N	0.2E		2.8L		
MDD	X	30 05 07 43.9	42.75N	0.58W	4	2.7		
PIST	Felt I=I MSK Cauterets							
NEIC	$M_{L2.2}$(STR).							
	(512) North Carolina							
ISC	**X**	**30 06 42 21**±1.9	**36.73N**±.082	**81.2W**±.24	**10**		**7**	**0-3**
NEIC	X	30 06 42 22.7	36.71N	80.92W	10			¶97x5007
NEIC	$M_{D2.2}$(BLA)							
NEIC	Felt in the Galax-Fries-Ivanhoe area, Virginia.							
	(135) Near coast of Central Chile							
ISC	**X**	**30 07 05 23.7**±.60	**30.83S**±.039	**71.18W**±.076	**79**±6.2	**4.6b**	**65**	**2-165**
NEIC	X	30 07 05 20.5	30.83S	71.33W	50	4.7b		¶97x5011
GUC	X	30 07 05 23.4	31.01S	71.68W	21	4.8D		
EIDC	X	30 07 05 24.1	30.7S	71.2W	70	4.6b,4.3L		
NEIC	Felt I=V MM at Ovalle, IV MM at Illapel, III MM at La Serena and II MM at Los Vilos.							
	(193) Solomon Islands							
EIDC	**X**	**30 13 10 10.2**	**9.8S**	**160.1E**	**0**	**3.4b**		**¶97x5042**
HNR	Felt at Gold Ridge							
	(512) North Carolina							
ISC	**X**	**30 15 59 40**±1.5	**36.74N**±.067	**81.0W**±.20	**9**		**7**	**0-3**
NEIC	X	30 15 59 40.4	36.72N	80.93W	9			¶97x5064
NEIC	$M_{D2.1}$(BLA)							
NEIC	Felt in the Galax-Fries-Ivanhoe area, Virginia.							
	(136) Central Chile							
ISC	**X**	**30 17 22 18**±1.3	**37.88S**±.076	**72.9W**±.18	**63**±9.5	**4.3b**	**28**	**1-94**
NEIC	X	30 17 22 14.1	37.83S	73.10W	33			¶97x5070
GUC	X	30 17 22 15.8	37.84S	73.47W	94	4.3D		
EIDC	X	30 17 22 19.0	37.9S	72.9W	58	4.1b,4.1L		
NEIC	Felt I=IV MM, Less reliable solution.							
NEIC	Felt I=IV MM at Collipulli, Los Sauces and Puren; III MM at Angol and Renaico; II MM at Curacautin and Victoria.							
	(265) Minahassa Peninsula (Celebes)							
ISC	**X**	**30 23 05 59.4**±.84	**0.20S**±.045	**122.93E**±.065	**95**±9.3	**4.4b**	**37**	**3-90**
BJI	X	30 23 05 59.5	0.20S	122.90E	100	4.9b		¶97x5103
NEIC	X	30 23 05 59.5	0.17S	122.89E	100	4.6b		
EIDC	X	30 23 06 01.2	0.2S	123.0E	100	4.1b,3.0s		
NEIC	Felt I=III MM at Luwuk.							
	(159) North Island, New Zealand							
ISC	**X**	**31 07 15 19.6**±.44	**38.84S**±.052	**175.58E**±.080	**128**	4.5b	**39**	**0-38**
NEIC	X	31 07 15 20.4	38.80S	175.15E	100	4.6b		¶97x5150
WEL	X	31 07 15 20.7	38.73S	175.68E	128	5.1L		
NEIC	Less reliable solution.							
WEL	Felt I=IV MM Patoka and Marton.							
	(246) South-western Ryūkyū Islands							
ISC	**X**	**31 13 00 07.7**±.68	**23.93N**±.049	**123.41E**±.041	**41**±5.8	**4.9b,4.9s**	**134**	**0-168**
JMA	X	31 13 00 06.4±.7	23.85N±.04	123.31E±.04	24	5.4		¶97x5187
BJI	X	31 13 00 07.0	23.96N	123.45E	39	4.3L,4.8b		
NEIC	X	31 13 00 08.7	23.98N	123.47E	51	5.1b,4.9s		
MOS	X	31 13 00 09.5	24.1N	123.4E	54	5.3b		
EIDC	X	31 13 00 11.0	24.1N	123.4E	56	4.4b,4.8s		
JMA	Felt I=II J1							
BJI	Ms5.0							
	(718) Hindu Kush region							
ISC	**X**	**31 17 15 43.8**±.57	**36.08N**±.032	**70.88E**±.032	**124**±6.1	**5.0b**	**224**	**2-150**
BJI	X	31 17 15 41.0	36.08N	70.83E	91	5.0b		¶97x5208
NEIC	X	31 17 15 41.3	36.04N	70.88E	102	5.0b		
MOS	X	31 17 15 42.0	36.2N	71.0E	100	5.3b		
EIDC	X	31 17 15 44.9	36.0N	70.8E	123	4.7b,4.2s		
NEIC	Felt at Peshawar, Pakistan.							
	(244) Taiwan							
ISC	**X**	**31 23 08 32.0**±.72	**24.74N**±.048	**121.78E**±.078	**8**±7.0		**16**	**0-2**
TAP	X	31 23 08 31.2	24.74N	121.78E	10	3.3L		¶97x5238
TAP	Felt I=III J Neicheng. II Ilan, I Suao							
	(381) Central Italy							
ISC	**X**	**31 23 43 38.6**±.63	**42.99N**±.032	**12.83E**±.059	**9**±5.8		**33**	**0-7**
NEIC	X	31 23 43 37.7	42.89N	12.84E	10			¶97x5240
ROM	X	31 23 43 38.4	43.0N	12.9E	8	3.0D		
LDG	X	31 23 43 39.3	42.9N	13.0E		3.1L		
NEIC	M_L3.3(VIE), Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
	(718) Hindu Kush region							
ISC	**XI**	**01 03 46 33.9**±.42	**36.46N**±.029	**70.69E**±.027	**207**±4.6	**4.7b**	**306**	**3-150**
NDI	XI	01 03 46 30	36.1N	71.1E	96	5.4b		¶97xi0026
BJI	XI	01 03 46 33.3	36.53N	70.78E	195	5.0b		
NEIC	XI	01 03 46 33.6	36.44N	70.70E	207	4.8b		
MOS	XI	01 03 46 34.1	36.5N	70.8E	206	5.0b		
EIDC	XI	01 03 46 35.8	36.4N	70.8E	211	4.7b		
NEIC	Felt at Peshawar, Pakistan.							
	(244) Taiwan							
ISC	**XI**	**01 10 14 13.2**±.51	**22.83N**±.041	**120.51E**±.069	**40**±8.1	**4.2b**	**27**	**0-48**
BJI	XI	01 10 14 06.1	22.23N	120.62E	24	3.6L		¶97xi0061
TAP	XI	01 10 14 12.9	22.90N	120.62E	11	4.2L		
TAP	Felt I=III J, II Shoushan, I Tainan, Chiayi							
	(244) Taiwan							
ISC	**XI**	**01 11 31 26**±1.4	**24.45N**±.099	**121.7E**±.16	**10**±19		**5**	**0-1**
TAP	XI	01 11 31 25.4	24.45N	121.73E	7	2.1L		¶97xi0073
ISC	Poorly determined							
TAP	Felt I=IV J							
	(230) Near south coast of Honshū							
ISC	**XI**	**01 11 37 05**±1.2	**35.23N**±.053	**139.3E**±.12	**17**±8.8	**3.9b**	**22**	**0-93**
EIDC	XI	01 11 37 03.8	35.2N	139.3E	0	3.9b,4.3L		¶97xi0074
JMA	XI	01 11 37 06.6±.0	35.25N±.00	139.12E±.00	15±1	3.8		
NEIC	XI	01 11 37 06.8	35.20N	139.21E	33			
JMA	Nodal plane solution: N123, Score 100%. NP1:ϕ_S255°,δ20°,λ115°. NP2:ϕ_S49°,δ71°,λ81°. Principle axes: T Plg63°,Azm306°; N Plg8°,Azm52°; P Plg26°,Azm146°.							
NEIC	Less reliable solution.							
NEIC	Felt I=III J1 in southwestern Kanagawa, eastern Shizuoka and eastern Yamanashi Prefectures.							
	(243) Taiwan region							
ISC	**XI**	**01 12 18 02.0**±.46	**22.96N**±.031	**121.21E**±.052	**7**	**3.2b**	**35**	**0-48**
TAP	XI	01 12 18 01.6	22.96N	121.22E	7	4.3L		¶97xi0078
JMA	XI	01 12 18 02.5±.5	22.89N±.07	121.25E±.06	95			
EIDC	XI	01 12 18 05.4	22.4N	121.8E	0	3.2b,3.6L		
BJI	XI	01 12 18 09.7	23.52N	121.08E	31	3.6L		
TAP	Felt I=III J Pinlang, II Chengkung							
	(227) Honshū							
ISC	**XI**	**01 22 13 04.2**±.48	**36.04N**±.043	**139.88E**±.074	**61**±4.3	**4.3b**	**56**	**0-148**
BJI	XI	01 22 12 53.4	35.18N	140.75E	39			¶97xi0146
NEIC	XI	01 22 13 02.0	36.03N	139.95E	40	4.6b		
EIDC	XI	01 22 13 03.5	36.0N	139.8E	41	4.0b,3.9L		
JMA	XI	01 22 13 04.6±.1	36.06N±.01	139.92E±.01	51±2	4.3		
NEIC	Felt I=V MM.							
NEIC	Felt I=III J1 in southern Ibaraki, eastern Saitama and southern Tochigi Prefectures. Felt II J1 in the Tokyo area.							
JMA	Nodal plane solution: N113, Score 95%. NP1:ϕ_S262°,δ22°,λ130°. NP2:ϕ_S41°,δ73°,λ76°. Principle axes: T Plg59°,Azm291°; N Plg13°,Azm45°; P Plg27°,Azm142°.							
	(381) Central Italy							
ISC	**XI**	**01 23 21 56.7**±.61	**42.85N**±.032	**12.91E**±.060	**8**±5.9		**37**	**0-7**
ROM	XI	01 23 21 56.2	42.9N	13.0E	5	3.3D		¶97xi0159
NEIC	XI	01 23 21 57.0	42.88N	12.88E	10			
LDG	XI	01 23 21 58.2	42.9N	13.1E		3.1L		
NEIC	M_L3.2(VIE), Less reliable solution.							
NEIC	Felt I=III MCS in the epicentral area.							
	(381) Central Italy							
ISC	**XI**	**02 04 14 54.8**±.63	**42.95N**±.031	**12.82E**±.056	**6**±6.1		**36**	**0-7**
NEIC	XI	02 04 14 53.5	42.83N	12.91E	10			¶97xi0193
ROM	XI	02 04 14 54.5	43.0N	12.9E	6	3.1D		
LDG	XI	02 04 15 00.5	42.9N	12.5E		2.9L		
NEIC	Less reliable solution.							

NEIC Felt I=III MCS in the epicentral area.

(135) Near coast of Central Chile

ISC	**XI**	**02 04 25 02.5**±.64	**30.92S**±.043	**71.18W**±.073	**79**±7.1	**4.5b**	**64**	**2-151**	
GUC	XI	02 04 24 57.1	30.51S	71.38W	58	4.2D			**¶97xi0195**
NEIC	XI	02 04 25 00.4	30.81S	71.28W	55	4.6b			
EIDC	XI	02 04 25 00.8	31.0S	71.3W	53	4.4b,3.8s			

NEIC Felt I=IV MM at Punitaqui.

(381) Central Italy

ISC	**XI**	**02 05 21 30.3**±.68	**42.94N**±.032	**12.75E**±.056	**8**±6.2		**34**	**0-7**	
ROM	XI	02 05 21 30.1	43.0N	12.9E	8	3.1D			**¶97xi0200**
LDG	XI	02 05 21 30.4	42.9N	13.0E		2.9L			
NEIC	XI	02 05 21 32.5	43.16N	12.56E	10				

NEIC ML 2.7 (VIE). Felt I=III MCS in the epicentral area.

(381) Central Italy

ISC	**XI**	**02 07 19 49.8**±.63	**42.94N**±.032	**12.85E**±.057	**6**±6.3		**30**	**0-7**	
ROM	XI	02 07 19 49.6	42.9N	12.9E	5	3.1D			**¶97xi0214**
NEIC	XI	02 07 19 52.2	43.13N	12.69E	10				
LDG	XI	02 07 19 53.0	43.0N	12.9E		2.9L			

NEIC Less reliable solution.

NEIC ML 2.6 (VIE). Felt I=III MCS in the epicentral area.

(40) California-Nevada border region

ISC	**XI**	**02 08 51 54.4**±.80	**37.81N**±.020	**118.18W**±.023	**5**±5.7	**4.8b,4.7s**	**207**	**1-150**	
HRVD	XI	02 08 51 53.2±1.4	37.55N±.11	119.19W±.14	15				**¶97xi0223**
BJI	XI	02 08 51 54.2	37.80N	118.10W	5	4.9b,5.3s			
NEIC	XI	02 08 51 54.2	37.80N	118.14W	5	4.9b,4.6s			
EIDC	XI	02 08 51 55.6	37.9N	118.1W	0	4.5b,4.7s			

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c24; Mantle waves: s3,c3; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}0.20±.06; $M_{\theta\theta}$−1.14±.09; $M_{\phi\phi}$0.94±.09; $M_{r\theta}$0.09±.31; $M_{r\phi}$−0.66±.26; $M_{\theta\phi}$0.35±.09. Principal Axes: T 1.35,Plg29°,Azm97°; N −0.12,Plg59°,Azm297°; P −1.23,Plg9°,Azm192°. Best double couple: $M_0$1.3×10^{17}Nm, NP1:ϕ_S238°,δ63°,λ15°. NP2:ϕ_S141°,δ76°,λ152°.

NEIC Mw5.4(HRV). Felt.

NEIC Mw 5.2 (BRK). Felt at Fallon, Tonopah, Yerington and in the Reno-Carson City area, Nevada. Felt as far as Fresno, California.

(244) Taiwan

ISC	**XI**	**02 14 54 57**±1.8	**24.3N**±.11	**121.8E**±.20	**12**±14		**6**	**0-1**	
TAP	XI	02 14 54 56.6	24.36N	121.71E	13	2.5L			**¶97xi0282**

TAP Felt I=II J

(224) Hokkaido region

ISC	**XI**	**02 18 19 18.5**±.48	**41.49N**±.045	**141.81E**±.076	**77**±4.1	**4.0b**	**50**	**1-87**	
JMA	XI	02 18 19 18.8±.1	41.48N±.00	141.80E±.01	69±2	4.0			**¶97xi0312**
NEIC	XI	02 18 19 20.0	41.45N	141.75E	93	4.3b			
EIDC	XI	02 18 19 20.9	41.5N	141.8E	86	3.7b,3.1s			

JMA Nodal plane solution: N81, Score 91%. NP1:ϕ_S170°,δ16°,λ50°. NP2:ϕ_S31°,δ78°,λ101°. Principle axes:T Plg56°,Azm314°; NPlg10°,Azm208°; P Plg32°,Azm112°

NEIC Felt I=III MM.

NEIC Felt I=II J1 in eastern Aomori Prefecture, Honshu.

(243) Taiwan region

ISC	**XI**	**02 22 05 26**±2.0	**24.35N**±.047	**122.0E**±.16	**8**±8.8		**17**	**0-2**	
TAP	XI	02 22 05 27.8	24.40N	121.88E	11	3.5L			**¶97xi0344**

TAP Felt I=IV J

(381) Central Italy

ISC	**XI**	**03 01 17 56.3**±.64	**42.94N**±.032	**12.84E**±.060	**9**±6.0		**33**	**0-7**	
ROM	XI	03 01 17 56.0	43.0N	12.9E	7	3.3D			**¶97xi0371**
NEIC	XI	03 01 17 56.7	42.96N	12.78E	10				
LDG	XI	03 01 17 57.8	42.9N	12.9E		3.0L			

NEIC Less reliable solution.

NEIC ML 2.9 (VIE). Felt I=III MCS in the epicentral area.

(135) Near coast of Central Chile

ISC	**XI**	**03 02 13 35.2**±.95	**32.28S**±.052	**71.7W**±.11	**52**±9.3	**4.1b**	**39**	**1-153**	
NEIC	XI	03 02 13 33.8	32.25S	71.86W	33	4.3b			**¶97xi0375**
GUC	XI	03 02 13 34.5	32.25S	71.68W	31	4.6D			
EIDC	XI	03 02 13 35.4	32.2S	71.7W	32	3.8b,4.2L			

NEIC Felt I=III MM at Concon, Papudo, Santiago, Valparaiso and Vina del Mar; II MM at La Calera, Llaillay and Quillota.

(244) Taiwan

ISC	**XI**	**03 03 18 06.4**±.67	**23.43N**±.031	**120.69E**±.043	**11**±5.4	**3.9b**	**35**	**0-72**	
TAP	XI	03 03 18 05.1	23.44N	120.72E	2	4.4L			**¶97xi0391**
EIDC	XI	03 03 18 05.3	23.3N	120.8E	0	3.8b,3.7L			
NEIC	XI	03 03 18 08.1	23.32N	120.74E	33	4.5b			
BJI	XI	03 03 18 11.0	23.92N	120.33E	5	3.8L,4.2b			

TAP Felt I=III J Aloshan, Chiayi, I Sun Moon Lake

NEIC Less reliable solution.

BJI Ms3.8

(381) Central Italy

ISC	**XI**	**03 03 59 31.5**±.66	**43.02N**±.026	**12.80E**±.037	**6**±5.6		**77**	**0-8**	
ROM	XI	03 03 59 31.0	43.0N	12.9E	9	3.4D			**¶97xi0398**
NEIC	XI	03 03 59 32.1	43.02N	12.77E	10				
LDG	XI	03 03 59 35.2	43.0N	12.7E		3.4L			
STR	XI	03 03 59 44.1	43.32N	12.02E	10	3.6L			

NEIC M_L3.5(VIE)

NEIC MD 3.4 (ROM). Felt I=IV MCS in the epicentral area.

(235) Kyūshū

ISC	**XI**	**03 05 44 01.6**±.90	**31.97N**±.065	**130.42E**±.080	**8**±14		**7**	**0-1**	
JMA	XI	03 05 44 01.9±.0	31.97N±.00	130.42E±.00	8±1	3.5			**¶97xi0415**

JMA Felt I=II J1

(348) Iran

ISC	**XI**	**03 06 59 30**±2.1	**36.26N**±.061	**54.47E**±.040	**23**±16	**4.5b**,4.5s	**100**	**3-97**	
EIDC	XI	03 06 59 28.1	36.3N	54.5E	0	4.3b,4.5L			**¶97xi0425**
NEIC	XI	03 06 59 31.1	36.33N	54.45E	33	4.8b,4.5s			
BJI	XI	03 06 59 31.3	36.42N	54.63E	24	4.9b,4.7s			

NEIC Felt in the Gongan area ,Iran (after KIV)

(163) Cook Strait, New Zealand

ISC	**XI**	**03 08 03 26.8**±.75	**41.66S**±.048	**174.18E**±.066	**10**±7.3		**20**	**0-4**	
NEIC	XI	03 08 03 26.8	41.65S	174.17E	10				**¶97xi0432**
WEL	XI	03 08 03 27.1	41.65S	174.21E	5	4.1L			

NEIC Single network solution.

WEL Felt aboard the Marlborough Express.

(366) Turkey

ISC	**XI**	**03 08 07 56.5**±.29	**38.77N**±.042	**42.48E**±.033	**8**	**4.8b**,3.9s	**171**	**1-130**	
EIDC	XI	03 08 07 57.0	38.8N	42.3E	0	4.5b,4.5L			**¶97xi0433**
ISK	XI	03 08 07 57.8	38.76N	42.40E	8	4.9D			
MOS	XI	03 08 07 59.8	38.8N	42.5E	33	5.0b			
BJI	XI	03 08 07 59.9	38.80N	42.40E	33	4.8b			
NEIC	XI	03 08 07 59.9	38.81N	42.41E	33	4.8b			

NEIC Casualties.

NEIC Two people injured and seven houses destroyed at Bitlis.

(246) South-western Ryūkyū Islands

ISC	**XI**	**03 09 24 05.7**±.45	**24.07N**±.038	**123.65E**±.044	**50**±4.8	**4.5b,4.0s**	**71**	**0-91**	
JMA	XI	03 09 24 06.6±.3	24.02N±.03	123.65E±.01	44±2	4.5			**¶97xi0444**
EIDC	XI	03 09 24 11.7	24.1N	123.6E	89	4.0b,4.0s			
NEIC	XI	03 09 24 12.9	24.15N	123.73E	117	4.5b			
BJI	XI	03 09 24 15.0	24.44N	123.22E	116	4.6b			

JMA Felt I=III J1

NEIC Felt I=V MM.

(246) South-western Ryūkyū Islands

ISC	**XI**	**03 13 50 07.2**±.58	**24.13N**±.065	**123.62E**±.065	**52**±6.3	**4.1b**	**29**	**0-84**	
BJI	XI	03 13 50 07.3	24.13N	123.58E	38	3.7L,4.4b			**¶97xi0476**
NEIC	XI	03 13 50 07.3	24.22N	123.69E	53	3.9b			
JMA	XI	03 13 50 07.8±.2	24.04N±.02	123.65E±.01	44±1	4.1			
EIDC	XI	03 13 50 09.4	24.2N	123.7E	56	3.9b			

NEIC Felt I=III MM, Less reliable solution.

NEIC Felt I=II J1 in the epicentral area.

(135) Near coast of Central Chile

ISC	**XI**	**03 19 17 35.0**±.51	**30.76S**±.030	**71.16W**±.040	**55**±5.1	**6.2b,5.7s**	**447**	**2-175**	
GUC	XI	03 19 17 32.0	30.66S	71.79W	44	5.8D			**¶97xi0505**
BJI	XI	03 19 17 32.2	30.60S	70.84W	37	6.2s			
NEIC	XI	03 19 17 33.8	30.74S	71.22W	45	6.2b,5.6s			
MOS	XI	03 19 17 35.4	30.8S	71.3W	57	6.5b			
EIDC	XI	03 19 17 36.3	30.9S	71.3W	60	5.5b,5.2L			
HRVD	XI	03 19 17 39.8±1.0	30.99S	71.69W	51				

NEIC Mw6.2(GS), Damage I=VII MM, landslide/avalanche observed.

NEIC Radiated energy from the P−wave first−motion solution: 4.5±1.3×10^{13}Nm/13

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S15°,δ30°,λ120°. NP2:ϕ_S161°,δ64°,λ74°. Principal axes: T Plg67°,Azm42°; P Plg4°,Azm249°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s39, scale 10^{18}Nm; M_{rr}2.17; $M_{\theta\theta}$0.03; $M_{\phi\phi}$−2.19; $M_{r\theta}$0.14; $M_{r\phi}$−0.68; $M_{\theta\phi}$0.09. Depth 43km; Principal axes: T 2.28,Plg81°,Azm70°; N 0.02,Plg3°, Azm177°; P −2.30,Plg9°,Azm267°. Best double couple: $M_0$2.3×10^{18}Nm; NP1:ϕ_S1°,δ36°, λ95°. NP2:ϕ_S175°,δ54°,λ87°.

NEIC Mw 6.2 (HRV). Me 6.2 (GS). Ms 5.5 (BRK). Additional damage I=VII MM at Punitaqui. Felt VI MM at Hurtado, Illapel, La Serena, Monte Patria, Ovalle and Vicuna; V MM at Copiapo and Coquimbo; IV MM at Petorca; III MM at San Antonio, Santiago and Valparaiso. Power and telephone outages occurred at Coquimbo, La Serena and Ovalle. Landslides occurred along Route 5 North in the epicentral area. Also felt III MM at Mendoza, Argentina.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s48,c108; Mantle waves: s30,c54; Half duration: 13s0. Moment tensor: Scale 10^{18}Nm; M_{rr}1.80±.02; $M_{\theta\theta}$0.12±.02; $M_{\phi\phi}$−1.93±.03; $M_{r\theta}$0.07±.04; $M_{r\phi}$−1.01±.03; $M_{\theta\phi}$0.23±.02. Principal Axes: T 2.06,Plg76°,Azm89°; N 0.15,Plg1°,Azm354°; P −2.21,Plg14°,Azm264°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S352°,δ31°,λ88°. NP2:ϕ_S175°,δ59°,λ91°.

(244) Taiwan

ISC	**XI**	**03 19 27 38**±1.3	**24.29N**±.070	**121.7E**±.15	**9**±11		**9**	**0-1**	
TAP	XI	03 19 27 37.7	24.28N	121.74E	7	2.9L			**¶97xi0508**

TAP Felt I=II J

(135) Near coast of Central Chile

ISC	**XI**	**03 20 12 53.9**±.53	**30.83S**±.032	**71.24W**±.050	**63**±5.5	**5.5b**	**209**	**2-177**	
MOS	XI	03 20 12 50.4	30.9S	71.4W	33	5.7b			**¶97xi0514**
BJI	XI	03 20 12 52.0	30.80S	71.30W	45				
NEIC	XI	03 20 12 52.0	30.77S	71.34W	45	5.6b			
EIDC	XI	03 20 12 52.5	31.0S	71.3W	43	5.3b,5.1s			
GUC	XI	03 20 12 53.5	30.88S	71.76W	48	5.2D			

NEIC Felt I=IV MM at Choapa and Ovalle; III MM at La Serena and Papudo; II MM at Valparaiso. Also felt III MM at Mendoza, Argentina.

(243) Taiwan region

ISC	**XI**	**03 21 04 10.4**±.89	**24.63N**±.056	**122.49E**±.040	**4**±7.7	**4.0b**	**31**	**0-59**	
JMA	XI	03 21 04 07.7±.8	24.95N±.05	122.49E±.05	6	3.8			**¶97xi0518**
BJI	XI	03 21 04 08.4	24.28N	122.44E	10	3.7L,4.3b			
TAP	XI	03 21 04 10.3	24.60N	122.52E	7	4.4L			
EIDC	XI	03 21 04 40.2	24.7N	125.0E	238	3.4b			

TAP Felt I=II J

(135) Near coast of Central Chile

ISC	**XI**	**03 21 05 35.2**±.91	**30.86S**±.063	**71.38W**±.080	**69**±9.2	**4.3b**	**50**	**2-151**	
GUC	XI	03 21 05 32.2	30.70S	71.72W	45	4.8D			**¶97xi0520**
NEIC	XI	03 21 05 33.0	30.75S	71.37W	46	4.5b			
EIDC	XI	03 21 05 33.8	30.8S	71.4W	47	4.2b			

NEIC Felt I=V MM at Vicuna, IV MM at Ovalle, III MM at La Ligua and II MM at Papudo.

(546) Austria

ISC	**XI**	**03 21 44 53**±1.2	**47.79N**±.085	**16.1E**±.12	**6**±14		**9**	**1-4**	
NEIC	XI	03 21 44 53.6	47.71N	16.19E	10				**¶97xi0525**

NEIC M_L2.9(VIE). Poor solution.

NEIC Felt I=IV MSK at Markt Piesting.

(546) Austria

ISC	**XI**	**03 23 17 03**±1.3	**47.8N**±.11	**16.1E**±.13	**2**±14		**11**	**1-4**	
NEIC	XI	03 23 17 03.5	47.74N	16.19E	5				**¶97xi0536**

NEIC $M_{L2.6}$(VIE)

NEIC Felt I=IV MSK at Markt Piesting.

(230) Near south coast of Honshū

ISC	**XI**	**04 01 31 07.9**±.54	**35.22N**±.048	**139.06E**±.089	**24**±4.4	**4.1b**	**39**	**0-149**	
NEIC	XI	04 01 31 06.7	35.12N	138.95E	21	4.0b			**¶97xi0554**
JMA	XI	04 01 31 08.4±.0	35.25N±.00	139.11E±.00	15±1	4.0			
EIDC	XI	04 01 31 08.5	35.2N	139.0E	19	4.0b,4.9L			

NEIC Felt I=V MM, Less reliable solution.

NEIC Felt I=III J1 in northwestern Kanagawa and II J1 in southern Chiba and eastern Yamanashi Prefectures.

JMA Nodal plane solution: N95, Score 94%. NP1:ϕ_S250°,δ31°,λ112°. NP2:ϕ_S46°,δ61°,λ78°. Principle axes: T Plg71°,Azm288°; N Plg11°,Azm52°; P Plg15°,Azm145°.

(546) Austria

ISC	**XI**	**04 02 22 19**±1.3	**47.74N**±.094	**16.2E**±.14	**11**±17		**10**	**1-4**	
NEIC	XI	04 02 22 19.3	47.73N	16.22E	10				**¶97xi0559**

NEIC M_L2.5(VIE). Less reliable solution.

NEIC Felt I=IV MSK at Markt Piesting.

(364) Greece

ISC	**XI**	**04 10 30 30**±1.4	**38.30N**±.031	**23.47E**±.031	**5**±11	**4.0b**	**85**	**0-72**	
NEIC	XI	04 10 30 29.5	38.30N	23.51E	10				**¶97xi0617**
THE	XI	04 10 30 31.0	38.4N	23.6E	0	3.8L			
ATH	XI	04 10 30 32.9	38.14N	23.39E	24	3.9L			
EIDC	XI	04 10 30 38.5	38.5N	23.4E	72	3.8b,3.9L			
PDG	XI	04 10 30 38.5	38.6N	22.7E	13	4.0L			

NEIC Felt in the Athens area and in some parts of western Greece.

(162) South Island, New Zealand

ISC	**XI**	**04 13 55 43**±1.3	**43.01S**±.053	**171.41E**±.074	**21**±13	**4.2b,4.0s**	**56**	**1-163**	
NEIC	XI	04 13 55 42.5	42.98S	171.33E	10	4.2b			**¶97xi0649**
WEL	XI	04 13 55 43.2	43.00S	171.37E	5	5.1L			
EIDC	XI	04 13 55 46.9	42.8S	171.3E	30	4.1b,4.0s			

NEIC Felt from Harihari to Westport.

WEL Felt widely from West Coast to Lake Coleridge, I=IV MM maximum intensity

(43) Southern California

ISC	**XI**	**04 14 36 21.0**±.60	**34.10N**±.039	**117.41W**±.043	**5**±6.8		**31**	**0-5**	
NEIC	XI	04 14 36 21.7	34.10N	117.43W	4				**¶97xi0654**
ECX	XI	04 14 36 22.0	34.08N	117.54W	5	3.5D			

NEIC M_L3.6(PAS), After PAS.

Agency		Origin Time		φ	λ	h	Mag	*n*	Δ-Rng
		mo d h m s		°	°	km			°
NEIC	Felt in the Ontario-Riverside-San Bernardino area.								
	(135) Near coast of Central Chile								
ISC	**XI**	**04 18 59 15.9**±.84	**30.81S**±.053	**71.40W**±.082	**68**±8.5	**4.6b**	**54**	**2-151**	
NEIC	XI	04 18 59 14.1	30.75S	71.47W	52	4.7b		**¶97xi0675**	
GUC	XI	04 18 59 15.5	30.80S	71.58W	47	4.7D			
EIDC	XI	04 18 59 15.8	30.8S	71.4W	53	4.5b			
NEIC	Felt I=IV MM at Combarbala, Monte Patria and Ovalle; III MM at Hurtado, Illapel, La Serena, Punitaqui and Salamanca; II MM at Petorca.								
	(233) Near south coast of Southern Honshū								
ISC	**XI**	**04 19 22 40.6**±.65	**34.89N**±.052	**135.15E**±.062	**15**			**12**	**0-3**
JMA	XI	04 19 22 40.6±.0	34.88N±.00	135.16E±.00	15±1	3.5		**¶97xi0676**	
JMA	Felt I=II J1								
	(228) Near east coast of Honshū								
ISC	**XI**	**04 19 38 34.4**±.73	**39.38N**±.049	**142.2E**±.10	**62**±5.9	**4.2b**	**45**	**0-155**	
JMA	XI	04 19 38 33.6±.1	39.35N±.00	142.35E±.02	52±2	4.4		**¶97xi0680**	
NEIC	XI	04 19 38 35.8	39.37N	142.13E	75	4.6b			
EIDC	XI	04 19 38 37.4	39.3N	142.2E	73	3.8b			
BJI	XI	04 19 38 37.7	39.44N	142.28E	96	4.7b			
NEIC	Felt I=III MM.								
NEIC	Felt I=II J1 in southeastern Iwate Prefecture.								
	(135) Near coast of Central Chile								
ISC	**XI**	**04 19 49 23**±1.3	**30.90S**±.079	**71.6W**±.14	**87**±15	4.0b	**24**	**2-75**	
GUC	XI	04 19 49 21.7	30.85S	71.69W	38	4.6D		**¶97xi0682**	
NEIC	XI	04 19 49 22.3	30.82S	71.39W	50	4.2b			
NEIC	Felt I=III MM at Combarbala, Hurtado, Monte Patria, Ovalle and Punitaqui.								
	(381) Central Italy								
ISC	**XI**	**04 22 53 58.1**±.75	**42.97N**±.029	**12.70E**±.050	**0**±6.9		**49**	**0-7**	
LDG	XI	04 22 53 56.4	42.8N	13.1E		3.3L		**¶97xi0701**	
ROM	XI	04 22 53 58.0	43.0N	12.9E	7	3.3D			
NEIC	XI	04 22 53 58.5	42.94N	12.75E	10				
NEIC	M_{L}3.4(VIE)								
NEIC	Felt I=IV MCS in the epicentral area.								
	(1) Central Alaska								
ISC	**XI**	**05 01 42 37.5**±.21	**64.81N**±.020	**155.22W**±.067	**10**	**4.7b,3.9s**	**180**	**1-147**	
BJI	XI	05 01 42 34.9	64.80N	155.10W	10	4.6b		**¶97xi0717**	
NEIC	XI	05 01 42 37.9	64.82N	155.11W	10	4.9b			
EIDC	XI	05 01 42 39.3	65.1N	155.0W	0	4.4b,3.8s			
NEIC	M_{L}4.9(AEIC), After AEIC.								
NEIC	Felt strongly at Ruby. Also felt by people in high-rise buildings at Fairbanks.								
	(244) Taiwan								
ISC	**XI**	**05 05 45 07**±1.9	**24.38N**±.057	**121.9E**±.17	**4**±12		**13**	**0-1**	
TAP	XI	05 05 45 06.6	24.41N	121.86E	15	2.9L		**¶97xi0738**	
TAP	Felt I=III J								
	(228) Near east coast of Honshū								
ISC	**XI**	**05 09 44 04.8**±.64	**36.55N**±.045	**141.12E**±.065	**51**±5.8	**4.4b,4.3s**	**71**	**0-147**	
JMA	XI	05 09 44 03.7±.2	36.58N±.01	141.22E±.02	45±3	4.5		**¶97xi0763**	
NEIC	XI	05 09 44 03.7	36.56N	141.11E	43	4.6b			
BJI	XI	05 09 44 04.5	36.34N	141.21E	68	4.6b,4.3s			
EIDC	XI	05 09 44 05.3	36.6N	141.3E	43	4.1b,4.6L			
JMA	Felt I=II J1								
JMA	Nodal plane solution: N67, Score 91%. NP1:ϕ_S161°,δ13°,λ57°. NP2:ϕ_S14°,δ79°,λ98°. Principle axes: T Plg55°,Azm293°; N Plg7°,Azm193°; P Plg34°,Azm98°.								
	(364) Greece								
ISC	**XI**	**05 10 27 52.2**±.57	**38.31N**±.024	**23.43E**±.022	**23**±5.3	**4.4b**,4.3s	**192**	**0-130**	
NEIC	XI	05 10 27 50.3	38.29N	23.44E	10	4.5b		**¶97xi0770**	
EIDC	XI	05 10 27 53.9	38.3N	23.4E	26	4.2b,4.4L			
ATH	XI	05 10 27 54.0	38.24N	23.52E	26	4.0L			
THE	XI	05 10 27 55.7	38.4N	23.6E	20	4.1L			
PDG	XI	05 10 27 59.6	38.4N	22.2E	13	4.6L			
NEIC	Felt at Athens.								
	(381) Central Italy								
ISC	**XI**	**05 11 09 10.1**±.86	**42.96N**±.047	**12.83E**±.058	**8**±6.5		**40**	**0-7**	
NEIC	XI	05 11 09 03.8	42.42N	13.22E	10			**¶97xi0781**	
ROM	XI	05 11 09 09.7	43.0N	12.9E	4	3.4D			
LDG	XI	05 11 09 10.0	42.8N	13.1E		3.2L			
NEIC	M_{L}3.4(VIE)								
NEIC	Felt I=V MCS in the epicentral area.								
	(370) Crete								
ISC	**XI**	**05 12 22 51**±1.2	**34.66N**±.028	**23.96E**±.019	**5**±7.4	**5.3b,4.7s**	**436**	**1-145**	
EIDC	XI	05 12 22 52.3	34.8N	24.1E	0	5.2b,5.0L		**¶97xi0797**	
THE	XI	05 12 22 53.3	34.5N	23.9E	20	4.9L			
BJI	XI	05 12 22 55.3	34.74N	23.71E	46	5.5b,4.8s			
MOS	XI	05 12 22 55.4	34.8N	24.1E	33	6.0b,4.8s			
NEIC	XI	05 12 22 55.4	34.77N	23.98E	33	5.1b			
ATH	XI	05 12 22 58.4	34.91N	24.02E	15	4.7L			
HRVD	XI	05 12 22 58.4±.7	34.61N±.09	23.62E±.14	40±7.7				
PDG	XI	05 12 23 01.5	35.5N	23.6E	11	5.1L			
NEIC	Mw5.4(HRV)								
NEIC	Felt strongly on Gavdhos. Felt in many parts of Crete and on the Dodecanese Islands.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}0.63±.11; $M_{\theta\theta}$−0.18±.09; $M_{\phi\phi}$−0.45±.17; $M_{r\theta}$1.19±.17; $M_{r\phi}$0.14±.24; $M_{\theta\phi}$0.71±.13. Principal Axes: T 1.62,Plg49°,Azm337°; N −0.28, Plg31°,Azm110°; P −1.34,Plg24°,Azm215°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S350°,δ34°,λ154°. NP2:ϕ_S101°,δ76°,λ58°.								
	(36) Northern California								
ISC	**XI**	**05 17 49 28.5**±.22	**39.91N**±.021	**120.87W**±.030	**5**	**4.2b**	**86**	**1-116**	
NEIC	XI	05 17 49 28.3	39.91N	120.85W	5	4.4b		**¶97xi0837**	
EIDC	XI	05 17 49 31.1	39.9N	120.9W	0	4.1b,3.7L			
NEIC	M_{L}4.8(BRK), Mw4.3(BRK). Felt I=V MM.								
NEIC	ML 4.5 (GS). MD 4.4 (GM). Felt I=V MM at Chilcoot, Crescent Mills, Cromberg, Downieville, Graeagle, Greenville, Tobin and Twain; IV MM at Alleghany, Berry Creek, Canyondam, Challenge, Meadow Valley, Portola, Pulga, Sierra City, Strawberry Valley, Susanville, Vinton and Washington. Felt as far as West Sacramento, California and in the Reno-Sparks area, Nevada.								
	(224) Hokkaido region								
ISC	**XI**	**05 20 04 37.1**±.30	**43.13N**±.034	**144.36E**±.043	**126**±2.4	**4.9b**	**224**	**0-151**	
MOS	XI	05 20 04 34.7	43.1N	144.5E	108	5.4b		**¶97xi0855**	
SKHL	XI	05 20 04 36.0	43.1N	144.3E	125±10				
BJI	XI	05 20 04 36.2	43.37N	144.37E	122	5.2b			
NEIC	XI	05 20 04 36.2	43.14N	144.34E	119	5.0b			
EIDC	XI	05 20 04 38.0	43.2N	144.3E	122	4.5b,3.6s			
JMA	XI	05 20 04 38.1±.2	43.02N±.01	144.43E±.01	113±2	4.9			
SKHL	K11								
NEIC	Felt I=V MM.								
NEIC	Felt I=III J1 in southeastern Hokkaido. Also felt I J1 in eastern Aomori and northern Iwate Prefectures, Honshu.								
JMA	Nodal plane solution: N104, Score 91%. NP1:ϕ_S149°,δ9°,λ−8°. NP2:ϕ_S24831,δ89°,λ−99°. Principle axes: T Plg43°,Azm346°; N Plg9°,Azm248°; P Plg46°,Azm149°.								
	(244) Taiwan								
ISC	**XI**	**05 20 21 11**±1.4	**24.40N**±.075	**121.8E**±.17	**20**±16		**10**	**0-1**	
TAP	XI	05 20 21 10.5	24.43N	121.73E	22	2.5L		**¶97xi0857**	
TAP	Felt I=II J								
	(364) Greece								
ISC	**XI**	**05 21 10 27.5**±.64	**38.41N**±.018	**22.28E**±.015	**13**±4.1	**5.4b,5.4s**	**565**	**1-145**	
BJI	XI	05 21 10 27.8	38.23N	21.98E	39	5.3b,5.5s		**¶97xi0864**	
THE	XI	05 21 10 28.3	38.4N	22.5E	0	4.8L			
ATH	XI	05 21 10 28.3	38.34N	22.31E	3	4.9L			
NEIC	XI	05 21 10 28.6	38.44N	22.28E	24	5.5b,5.4s			
MOS	XI	05 21 10 29.8	38.4N	22.3E	33	5.7b,5.2s			
CSEM	XI	05 21 10 30.6	38.58N	22.33E	20				
EIDC	XI	05 21 10 31.1	38.5N	22.3E	29	5.0b,4.8L			
PDG	XI	05 21 10 31.2	38.3N	21.2E	10	5.7D			
HRVD	XI	05 21 10 32.4±.3	38.11N±.05	22.49E±.07	15				
ATH	Felt in the regions of Phokida, I=V−VI MCS at Itea, Lidoriki, Penteoria, Malandrinos, Desphina, Pentapoli, Amygdalea, Kastelli, Vounichora, V at Galaxeidi, Elaionas, Gravia, Chrysso, Managouli, Agia−Efthymia, Kallithea, Glyphada, Prosilio, Sernikaki, Krokyleio, Eptalophos, Erateini, IV−V at Drosochori, Potidania, IV at Marathias; in Boeotia, V−VI at Antikyra, V at Arachova, Agios−Dimitrios, Parorio, IV−V at Kaparelli, Elaionas, Mavrommati, IV at Thivai, Distomo, Agios−Georgios, Agios−Ioannis, Prodromos, Neochoraki, Schimatari, Koroneia, Orchomenos, Oinophyta, Agios−Vlassios, Agia−Triada, Asopia, Ypsilantis, III at Agios−Thomas, Ellopia.								
ATH	Felt in the regions of in Aitoloakarnania, I=V MCS at Spolaita, Sitaralona, Antirrio, Grammatikou, Kato−Kerasovo, IV−V at Palaiokarya, Sargiada, IV at Nafpaktos, Messarista, Thyrio, Agios−Thomas, Galatas, Analipsi, Lysimacheia, Ampelaki, Plagia, Lepenou, Agios−Vlassios, Kataphygio, Kainourgio, Empessos, Dokimio, Petrochori, Drymonas, Koniska, Avarikos, Katochi, Pappadatos, Phyteies, Vomvokou, Xiropigado, Monastiraki, Angelokastro, Konopina, Agios−Nikolaos, Myrtea, Kechrinia, Ano−Kerasovo, III−IV at Drymos, III at Amphilocheia, Gavalou, Stratos, Sparto, Vasilopoulo, Petrona, Evinochori, Paravola, Panaitolio, Agios−Konstantinos, Chrysovergi, Varetada, Patiopoulo, Rigani, Arachova, Mataranka, Paliampela, II at Menidi; in Korinthia, V at Velo, Zemeno, Diminio, Pitsa, IV−V at Nemea, Galataki, IV at Korinthos, Kiato, Loutraki, Examilia, Xylokeriza, Athikia, Goura, Kalyvia, Sophiko, Archaia−Nemea, Kephalari, Kaisareia, Panaritio, Lukoporia, Kryoneri, Isthmia, Solomos, Archaies−Kleones, III−IV at Vochaiko, III at Lafka, Kamari, Psari, Agios−Vasileios.								
ATH	Felt in the regions of Achaia, I=V MCS at Zarouchla, Daphnes, Kerpini, IV at Daphni, Ovria, Livartzi, Sagaiika, Kounina, Kalousio, Kouteli, Aigeira, Kertezi, Kalliphonio, Mintiloglio, Myrtos, Diakophto, Rododaphni, Keryneia, Longos, Kankadi, Skepasto, Ano−Diakophto, Kamares, Kalphas, Temeni, Kato−Vlassia, Phlokas, Rio, Ziria, Philia, Manesi, Vrachnaiika, Stratochori, Alissos, Isoma, Planitero, III at Priolithos, Aroania, Drosia, Krinophyta, Lagovouni, Kalentzi, Lousika; in Evrytania, V at Mesokomi, Monastiraki, Ampelia, IV at Karpenisi, Proussos, Raptopoulo, Domianoi, Vracha, Stenoma, Krikello, Vrangiana, Neraida, III at Phourna, Topoliana; in Phthiotida, V at Amphikleia, Ypati, Palamas, Giannitsou, Leianokladi, Stirphaka, Makrakomi, IV−V at Kammena−Vourla, Bralos, Archanio, IV at Lamia, Stylida, Domokos, Kato−Tithorea, Modi, Martino, Xyniada, Kolaka, Tymphristos, Phteri, Ladikou, Thermopyles, Phrantzis, Kastri, Vardali, Agios−Serapheim, Skarpheia, Kainourgio, Mendenitsa, Renkinio, Messopotamia, Zelio, Karyes, Roditsa, Elateia, Divri, Megaplatanos, Livanates, Glypha, Agnanti, Agios−Konstantinos, Perivoli, Palaiokerassia, Pournari, Neo−Monastiraki, Pavliani, III at Atalanti, Ekkara, Spercheiada, Karavomylos, Mantassia.								
ATH	Felt in the regions of Karditsa, I=IV MCS at Palamas, Mouzaki, Sophades, Mavrommati, Kalliphonio, Phyllo, Koskinas, Karpochori, Artessiano, Leontari, Neochori, Mitropoli, III at Mataranka, Drakotrypa, Makrychori, Trikala, IV at Pyli, Neochori, Vassiliki, Megala−Kalyvia, III at Kalampaka; in Larisa, IV at Larisa, Elassona, Tyrnavos, III at Rapsani, Agia, Argyropouleio, Pyrgetos; in Argolida, IV at Nafplio, Assini, Agia−Triada, III−V at Karya, III at Lygourio, Nea−Kios; in Arkadia, IV at Vytina, Valtessiniko, III at Tripoli, Leonidio, Megalopoli, Astros, Tropaia, Agios−Petros; in Heleia, IV at Pelopio, III at Goumero; in Arta, IV at Arta, Petas, III at Ammotopos; in Lakonia III at Sparti, Kastoreio; in Preveza, III at Rizovouni, Agia; in Messinia, III at Philiatra, Gargalianoi; in Ioannina, III at Metsovo, II−III at Perama; in Grevena, III at Mega−Seirinio; and on the Islands of Euboea, IV at Psachna, Agios, Amarynthos, Neos−Pyrgos, Mytikas, III at Kymi, Agia−Anna, Agios−Loukas, Makrykapa, Mantoudi; on Lefkada, IV at Karya; on Kerkyra, IV at Karoussades, III at Kerkyra, Agios−Matthaios; on Zakynthos, III at Zakynthos, Mouzaki; on Kephallinia, III at Pharaklata.								
NEIC	Mw5.6(HRV)								
NEIC	Mw 5.5 (GS). ML 4.9 (ATH). Power outages occurred in the Galaxidhion and Itea areas. Felt in central and northern Greece.								
NEIC	Moment tensor solution: s9, scale 10^{17}Nm; M_{rr}−1.46; $M_{\theta\theta}$1.56; $M_{\phi\phi}$−0.10; $M_{r\theta}$0.03; $M_{r\phi}$0.97; $M_{\theta\phi}$−0.97. Depth 21km; Principal axes: T 2.05,Plg7°,Azm207°; N −0.01,Plg30°, Azm301°; P −2.04,Plg59°,Azm106°. Best double couple: $M_0$2.0×10^{17}Nm; NP1:ϕ_S267°,δ47°, λ−134°. NP2:ϕ_S142°,δ59°,λ−54°.								
CSEM	Mw5.6. M_0=3.3±1.8×10^{17}Nm. Fault plane solution NP1:ϕ_S306°,δ49°,λ−73°. NP2:ϕ_S101°, δ44°,λ−109°. Principal Axes: T Plg3°,Azm24°; N Plg13°,Azm115°; P Plg77°,Azm282°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c32; Mantle waves: s7,c8; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.67±.12; $M_{\theta\theta}$1.55±.08; $M_{\phi\phi}$0.12±.16; $M_{r\theta}$1.65±.46; $M_{r\phi}$−0.15±.42; $M_{\theta\phi}$−1.68±.12. Principal Axes: T 3.12,Plg17°,Azm30°; N −0.63,Plg24°,Azm292°; P −2.49,Plg59°,Azm152°. Best double couple: $M_0$2.8×10^{17}Nm, NP1:ϕ_S152°,δ35°,λ−44°. NP2:ϕ_S281°,δ67°,λ−117°.								
	(348) Iran								
ISC	**XI**	**05 22 42 58**±2.1	**34.9N**±.13	**51.37E**±.093	**44**±22	**4.2b**	**26**	**4-80**	
EIDC	XI	05 22 42 53.8	34.9N	51.6E	0	4.0b,4.2L		**¶97xi0875**	
NEIC	XI	05 22 42 56.7	34.98N	51.36E	33	4.5b			
NEIC	Less reliable solution.								
NEIC	Felt at Tehran and Varamin.								
	(212) Bonin Islands region								
ISC	**XI**	**05 23 45 30.9**±.14	**27.88N**±.024	**142.61E**±.031	**10**	**5.4b,5.7s**	**368**	**1-164**	
BJI	XI	05 23 45 29.6	28.00N	142.67E	10	5.4b,5.9s		**¶97xi0884**	
NEIC	XI	05 23 45 30.7	27.86N	142.61E	10	5.4b,5.6s			
MOS	XI	05 23 45 31.6	27.9N	142.6E	13	6.1b,6.0s			
JMA	XI	05 23 45 33.7±.4	28.00N±.01	142.53E±.08	43	5.9			
EIDC	XI	05 23 45 35.5	27.9N	142.7E	28	5.0b,5.7s			
HRVD	XI	05 23 45 35.7±.2	27.67N±.02	142.76E±.02	15				
NEIC	Mw5.9(GS), Mw5.9(HRV).								
NEIC	Moment tensor solution: s15, scale 10^{17}Nm; M_{rr}5.34; $M_{\theta\theta}$−0.46; $M_{\phi\phi}$−4.88; $M_{r\theta}$2.34; $M_{r\phi}$7.08; $M_{\theta\phi}$−2.04. Depth 7km; Principal axes: T 9.11,Plg63°,Azm286°; N 0.32,Plg2°, Azm19°; P −9.43,Plg27°,Azm110°. Best double couple: $M_0$9.3×10^{17}Nm; NP1:ϕ_S204°,δ18°, λ95°. NP2:ϕ_S19°,δ72°,λ88°.								
JMA	Felt I=II J1								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c63; Mantle waves: s13,c18; Half duration: 2s2. Moment tensor: Scale 10^{17}Nm; M_{rr}4.73±.08; $M_{\theta\theta}$0.16±.10; $M_{\phi\phi}$−4.89±.11; $M_{r\theta}$−1.00±.31; $M_{r\phi}$5.23±.33; $M_{\theta\phi}$−1.21±.09. Principal Axes: T 7.31,Plg63°,Azm244°; N −0.05,Plg12°,Azm1°; P −7.25,Plg23°,Azm96°. Best double couple: $M_0$7.3×10^{17}Nm, NP1:ϕ_S210°,δ25°,λ121°. NP2:ϕ_S356°,δ69°,λ77°.								
	(390) Southern Italy								
ISC	**XI**	**06 02 20 26.8**±.49	**41.95N**±.036	**12.66E**±.029	**20**±5.9	3.6b	**98**	**0-21**	
STR	XI	06 02 20 21.5	41.58N	13.08E	10	4.5L		**¶97xi0906**	
NEIC	XI	06 02 20 23.2	41.76N	12.77E	10				
EIDC	XI	06 02 20 24.2	41.8N	13.1E	0	3.9L,3.6b			
LDG	XI	06 02 20 25.8	41.7N	12.8E		3.5L			
ROM	XI	06 02 20 26.6	42.0N	12.8E	2	3.5D			
PDG	XI	06 02 20 35.3	41.7N	13.6E	9	3.8L			

NEIC Felt I=V MCS at Rome.

(447) Southern Québec Province

ISC	**XI**	**06 02 34 32.7**±.91	**46.73N**±.028	**71.35W**±.032	**27**±7.5	**4.7b,4.0s**	**181**	**1-151**	
EIDC	XI	06 02 34 30.4	46.8N	71.4W	0	4.5b,5.0L			¶97xi0908
NEIC	XI	06 02 34 33.0	46.80N	71.41W	23	4.8b,4.0s			
OTT	XI	06 02 34 33.5	46.8N	71.4W	23	5.1N			

NEIC mbLg5.1(OTT), mbLg4.8(GS). Casualties, After OTT.

NEIC One person died of a heart attack. Felt in many parts of southern Quebec. Felt as far west as Ottawa, Ontario and as far east as Edmundston, New Brunswick. Felt I=V MM at Adamstown; IV MM at Clayton Lake, Farmington, Saint Francis, Saint John and Shirley Mills, Maine. Felt V MM at East Haven and Newport; IV MM at Barton, Beebe Plain, Sheldon Springs and West Glover, Vermont. Also felt IV MM at Groveton, New Hampshire. Felt in western Maine, northern New Hampshire, northern Vermont and parts of northeastern New York.

OTT Felt in Quebec City, Charlevoix, and Saguenay regions. Also reported felt in Ottawa Valley, Montreal, Maine, and Northern New York. Minor damage reported in a school of the Quebec City region.15km west from Quebec

(43) Southern California

ISC	**XI**	**06 04 33 42.5**±.37	**34.99N**±.029	**116.98W**±.039	**5**		**42**	**0-8**	
NEIC	XI	06 04 33 43.4	34.98N	116.95W	5				¶97xi0922

NEIC ML3.8(PAS), ML3.8(GS). Felt, After PAS.

NEIC Felt at Barstow.

(75) Nicaragua

ISC	**XI**	**06 17 29 08.5**±.21	**11.72N**±.038	**85.81W**±.033	**119**±1.0*	**5.1b**	**291**	**4-154**	
BJI	XI	06 17 29 07.9	11.70N	85.80W	116				¶97xi1006
NEIC	XI	06 17 29 07.9	11.69N	85.79W	117	5.1b			
EIDC	XI	06 17 29 09.9	11.8N	85.6W	122	4.7b			
HRVD	XI	06 17 29 11.1±.3	11.40N±.03	86.19W±.04	131±1.6				

NEIC MD5.7(SSS), Mw5.6(HRV). Felt I=III MM.

NEIC MD 5.1 (UPA). Felt I=III MM at San Salvador, El Salvador.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c46; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.48±.07; $M_{\theta\theta}$−0.41±.14; $M_{\phi\phi}$−1.07±.15; $M_{r\theta}$0.74±.08; $M_{r\phi}$−1.91±.08; $M_{\theta\phi}$−1.09±.12. Principal Axes: T 2.91,Plg54°,Azm55°; N −0.59, Plg27°,Azm191°; P −2.32,Plg21°,Azm292°. Best double couple: $M_0$2.6×10^{17}Nm, NP1: ϕ_S61°,δ34°,λ145°. NP2:ϕ_S181°,δ72°,λ61°.

(456) Montana

ISC	**XI**	**06 21 00 14.9**±.92	**45.87N**±.043	**111.21W**±.075	**7**±7.9	2.9b	**37**	**0-27**	
EIDC	XI	06 21 00 13.8	46.0N	110.9W	0	4.0L,3.1b			¶97xi1031
NEIC	XI	06 21 00 14.4	45.82N	111.08W	5				

NEIC ML4.0(GS), MD3.7(BUT). Felt, After BUT.

NEIC Felt at Amsterdam, Belgrade, Bozeman, Gallatin Gateway, Logan, Manhattan and Three Forks.

(244) Taiwan

ISC	**XI**	**07 03 04 40**±1.3	**23.22N**±.072	**120.09E**±.085	**12**±11		**9**	**0-1**	
TAP	XI	07 03 04 39.6	23.19N	120.09E	11	2.8L			¶97xi1066

TAP Felt I=III J

(243) Taiwan region

ISC	**XI**	**07 04 22 32.8**±.49	**24.47N**±.056	**122.27E**±.051	**67**		**24**	**0-3**	
TAP	XI	07 04 22 32.6	24.47N	122.32E	59	4.3L			¶97xi1070
JMA	XI	07 04 22 34.1±.4	24.65N±.05	122.42E±.03	67	3.7			

TAP Felt I=II J

(244) Taiwan

ISC	**XI**	**07 08 02 44**±3.4	**23.5N**±.17	**120.4E**±.24	**9**		**4**	**0-1**	
TAP	XI	07 08 02 43.3	23.54N	120.42E	9	2.1L			¶97xi1097

ISC Poorly determined

TAP Felt I=II J Chiayi

(244) Taiwan

ISC	**XI**	**07 10 19 21.0**±.50	**24.06N**±.050	**121.97E**±.049	**39**		**24**	**0-3**	
TAP	XI	07 10 19 20.2	24.10N	121.97E	39	3.9L			¶97xi1114
JMA	XI	07 10 19 21.8±.4	24.33N±.06	122.06E±.03	75	3.4			

TAP Felt I=III J, I Hwalien, Chiawan

(159) North Island, New Zealand

ISC	**XI**	**07 22 30 02.7**±.94	**40.34S**±.036	**176.66E**±.072	**27**±6.4	**5.0b,5.0s**	**106**	**1-166**	
WEL	XI	07 22 30 01.6	40.43S	176.84E	16	5.4L			¶97xi1178
BJI	XI	07 22 30 03.1	40.49S	176.84E	43	5.6b,5.0s			
NEIC	XI	07 22 30 04.1	40.31S	176.55E	33	5.0b,4.9s			
EIDC	XI	07 22 30 13.4	40.2S	176.3E	96	4.8b,5.0s			

WEL Felt Hawkes Bay and Manawatu, maximum intensity I=V MM in Napier and Waipawa.

NEIC Felt in the Hawkes Bay region.

(381) Central Italy

ISC	**XI**	**08 00 23 09.7**±.63	**43.12N**±.032	**12.70E**±.055	**9**±5.7		**40**	**0-8**	
LDG	XI	08 00 23 09.3	42.9N	12.9E		3.1L			¶97xi1192
ROM	XI	08 00 23 09.6	43.1N	12.8E	9	3.2D			
NEIC	XI	08 00 23 09.8	43.11N	12.65E	10				

NEIC ML3.4(VIE), Less reliable solution.

NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC	**XI**	**08 00 31 28.7**±.65	**43.13N**±.037	**12.72E**±.067	**9**±6.3		**28**	**0-7**	
ROM	XI	08 00 31 28.5	43.1N	12.8E	7	3.0D			¶97xi1193
LDG	XI	08 00 31 28.7	43.0N	12.9E		3.0L			
NEIC	XI	08 00 31 30.1	43.18N	12.53E	10				

NEIC ML3.1(VIE), ess reliable solution.

NEIC Felt I=III MCS in the epicentral area.

(533) United Kingdom

ISC	**XI**	**08 04 47 01.3**±.97	**57.63N**±.098	**5.5W**±.15	**24**±13		**9**	**0-3**	
BGS	XI	08 04 47 01.5	57.67N	5.57W	10	2.5L			¶97xi1214

BGS Felt I=IV+ MSK, Gairloch

(228) Near east coast of Honshū

ISC	**XI**	**08 05 16 29.1**±.76	**36.47N**±.070	**140.64E**±.099	**67**±5.4	**3.7b**	**26**	**0-83**	
NEIC	XI	08 05 16 24.7	36.46N	140.97E	33				¶97xi1216
JMA	XI	08 05 16 29.4±.1	36.46N±.00	140.61E±.01	57±2	3.9			
EIDC	XI	08 05 16 32.6	36.4N	140.4E	82	3.6b			

NEIC Less reliable solution.

JMA Felt I=II J1

(244) Taiwan

ISC	**XI**	**08 09 12 21**±1.3	**23.22N**±.073	**120.08E**±.086	**11**±11		**9**	**0-1**	
TAP	XI	08 09 12 20.7	23.21N	120.09E	12	3.1L			¶97xi1244

TAP Felt I=III J

(306) Xizang

ISC	**XI**	**08 10 02 53.4**±.12	**35.12N**±.028	**87.37E**±.022	**38**±2.1*	**6.0b,7.4s**	**651**	**6-160**	
EIDC	XI	08 10 02 48.4	35.1N	87.3E	0	5.4b,7.7s			¶97xi1252
BJI	XI	08 10 02 51.2	35.26N	87.33E	34	5.9b,7.4s			
NDI	XI	08 10 02 52.6	35.0N	87.3E	33	6.2b			
NEIC	XI	08 10 02 52.6	35.07N	87.33E	33	6.2b,7.9s			
MOS	XI	08 10 02 53.2	35.3N	87.4E	33	6.5b,7.7s			
HRVD	XI	08 10 03 03.4±.1	35.33N±.01	86.96E±.01	16±.5				

NEIC Mw7.5(HRV), Me7.4(GS).

NEIC Mw 7.4 (GS), 7.1 (OBN). Ms 7.5 (BRK).

NEIC Radiated energy from the P−wave first−motion solution: 3.1±0.9×10^{15}Nm/11

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S350°,δ85°,λ179°. NP2:ϕ_S80°,δ89°,λ5°. Principal axes: T Plg4°,Azm305°; P Plg3°,Azm215°. Complex earthquake with at least two larger events occurring about 3 and 6 seconds after the onset. Depth and focal mechanism based on first event.

NEIC Moment tensor solution: s12, scale 10^{20}Nm; M_{rr}0.09; $M_{\theta\theta}$−0.96; $M_{\phi\phi}$0.87; $M_{r\theta}$0.05; $M_{r\phi}$0.03; $M_{\theta\phi}$1.11. Depth 38km; Principal axes: T 1.39,Plg2°,Azm295°; N 0.08,Plg88°,Azm87°; P −1.48,Plg1°,Azm205°. Best double couple: $M_0$1.4×10^{20}Nm; NP1:ϕ_S340°,δ88°,λ179°. NP2: ϕ_S70°,δ89°,λ2°.

NEIC Felt in China (after QUE)

MOS Seismic moment $M_0$5.2×10^{19}Nm (after OBN)

MOS Focal mechanism: C77,D21; NP1:ϕ_S84°,δ90°,λ0°. NP2:ϕ_S354°,δ90°,λ180°. Principle axes: T Plg0°,Azm309°; N Plg90°,Azm0°; P Plg0°,Azm39°.

HRVD Centroid moment tensor solution. Data used: GSN; Mantle waves: s34,c80; Half duration: 14s7. Moment tensor: Scale 10^{20}Nm; M_{rr}−0.24±.01; $M_{\theta\theta}$−0.74±.01; $M_{\phi\phi}$0.97±.01; $M_{r\theta}$0.06±.07; $M_{r\phi}$0.85±.09; $M_{\theta\phi}$1.89±.01. Principal Axes: T 2.41,Plg16°,Azm301°; N −0.35, Plg69°,Azm164°; P −2.05,Plg14°,Azm35°. Best double couple: $M_0$2.2×10^{20}Nm, NP1:ϕ_S79°, δ69°,λ2°. NP2:ϕ_S348°,δ88°,λ159°.

(244) Taiwan

ISC	**XI**	**08 12 47 04**±1.2	**23.21N**±.073	**120.10E**±.084	**10**±12		**12**	**0-2**	
TAP	XI	08 12 47 03.4	23.20N	120.09E	11	3.6L			¶97xi1281

TAP Felt I=IV J

(244) Taiwan

ISC	**XI**	**08 13 51 57**±1.2	**23.23N**±.081	**120.09E**±.085	**12**±12		**9**	**0-1**	
TAP	XI	08 13 51 57.1	23.20N	120.08E	11	2.9L			¶97xi1290

TAP Felt I=III J

(381) Central Italy

ISC	**XI**	**08 15 31 53.5**±.57	**42.89N**±.020	**12.95E**±.021	**5**±4.4	**4.5b**,5.0s	**202**	**0-83**	
LDG	XI	08 15 31 52.2	42.7N	13.3E		4.2L			¶97xi1303
ROM	XI	08 15 31 53.3	42.9N	13.1E	10	4.0D			
BJI	XI	08 15 31 53.9	43.16N	12.53E	15	4.7b,5.2s			
NEIC	XI	08 15 31 54.2	42.90N	12.94E	10	4.4b			
EIDC	XI	08 15 31 54.3	42.9N	12.8E	0	4.2b,3.9L			
STR	XI	08 15 32 00.6	43.15N	12.62E	10	4.6L			
PDG	XI	08 15 32 02.5	41.6N	13.9E	15	4.1L			

NEIC ML4.4(FUR)

NEIC ML 3.8 (VIE). MD 3.9 (ROM). Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**XI**	**08 16 03 10.8**±.65	**42.84N**±.034	**12.91E**±.062	**10**±6.3		**36**	**0-20**	
NEIC	XI	08 16 03 09.8	42.79N	12.91E	10				¶97xi1313
ROM	XI	08 16 03 10.5	42.9N	13.0E	7	3.5D			
EIDC	XI	08 16 03 25.4	43.7N	13.1E	0	3.6L			

NEIC ML3.6(VIE), Less reliable solution.

NEIC Felt I=V MCS in the epicentral area.

(45) California-Mexico border region

ISC	**XI**	**08 16 30 43**±1.3	**32.40N**±.095	**115.29W**±.046	**6**		**25**	**0-8**	
NEIC	XI	08 16 30 41.6	32.27N	115.22W	6				¶97xi1316
ECX	XI	08 16 30 43.8	32.38N	115.23W	16	4.0D			

NEIC After PAS.

NEIC Felt south of Mexicali, Baja California.

(228) Near east coast of Honshū

ISC	**XI**	**08 18 41 17**±1.2	**36.20N**±.056	**140.9E**±.13	**29**±9.4	**3.7b**	**19**	**0-60**	
NEIC	XI	08 18 41 15.7	35.94N	141.03E	33				¶97xi1335
JMA	XI	08 18 41 16.8±.1	36.19N±.01	140.83E±.01	42±2	3.7			
EIDC	XI	08 18 41 18.5	36.2N	141.4E	50	3.5b,3.8L			

NEIC Poor solution.

JMA Felt I=II J1

(383) Northwestern Balkan region

ISC	**XI**	**09 07 44 57.9**±.63	**46.36N**±.045	**14.48E**±.065	**6**		**11**	**0-2**	
LJU	XI	09 07 44 57.9	46.4N	14.48E	6				¶97xi1418
NEIC	XI	09 07 44 57.9	46.34N	14.44E	10				

LJU Felt I=IV EMS in Preddvor, Slovenia.

NEIC ML2.3(VIE), ML2.2(LJU)

NEIC Felt I=III MM at Preddvor, Slovenia.

(160) Off east coast of North Island, N.Z.

ISC	**XI**	**09 08 28 54.3**±.61	**37.95S**±.069	**177.1E**±.11	**168**±4.9	**3.9b**	**49**	**0-152**	
NEIC	XI	09 08 28 54.5	37.82S	176.94E	155	4.2b			¶97xi1420
WEL	XI	09 08 28 55.1	37.58S	177.18E	139	5.0L			
EIDC	XI	09 08 29 15.6	37.7S	176.5E	338	3.5b			

NEIC Less reliable solution.

WEL Felt I=IV MM Ruatuna Rd

(381) Central Italy

ISC	**XI**	**09 16 34 48.1**±.61	**42.89N**±.026	**12.93E**±.034	**7**±5.1		**85**	**0-20**	
LDG	XI	09 16 34 45.0	42.7N	13.5E		3.8L			¶97xi1472
ROM	XI	09 16 34 47.8	42.9N	13.0E	9	3.8D			
NEIC	XI	09 16 34 48.3	42.89N	12.93E	10				
STR	XI	09 16 34 56.0	43.23N	12.65E	10	4.1L			
EIDC	XI	09 16 35 04.8	44.1N	13.3E	0	3.7L			

NEIC ML4.1(STR)

NEIC Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**XI**	**09 17 14 10.3**±.55	**42.89N**±.038	**12.97E**±.084	**16**±8.3		**29**	**0-7**	
LDG	XI	09 17 14 04.2	42.6N	13.7E		3.2L			¶97xi1477
ROM	XI	09 17 14 10.0	42.9N	13.0E	10	3.1D			
NEIC	XI	09 17 14 11.2	43.05N	12.83E	10				

NEIC Less reliable solution.

NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC	**XI**	**09 19 07 32.4**±.55	**42.88N**±.019	**12.97E**±.019	**4**±4.0	**4.7b,4.8s**	**261**	**0-88**	
ROM	XI	09 19 07 32.6	42.9N	13.1E	11	4.6D			¶97xi1498
LDG	XI	09 19 07 32.8	42.7N	13.2E		4.5L			
MOS	XI	09 19 07 33.3	42.9N	13.0E	10	5.3b,4.7s			
NEIC	XI	09 19 07 33.3	42.90N	12.95E	10	4.8b			
EIDC	XI	09 19 07 33.5	42.9N	12.8E	0	4.3b,4.6s			
PDG	XI	09 19 07 33.7	42.2N	12.9E	13	4.7L,4.6D			
BJI	XI	09 19 07 34.3	43.31N	13.13E	5	5.1b,5.1s			
STR	XI	09 19 07 39.5	43.02N	12.81E	10	5.0L			

NEIC ML5.0(FUR)

NEIC ML 4.7 (FBB). Additional damage I=VII MCS in the Sellano area. Felt as far as Rome and Viterbo.

(381) Central Italy

ISC	**XI**	**09 20 05 43.9**±.68	**42.87N**±.034	**12.92E**±.061	**10**±6.2		**36**	**0-8**	
LDG	XI	09 20 05 40.8	42.7N	13.5E		3.3L			¶97xi1503
ROM	XI	09 20 05 43.9	42.9N	13.0E	10	3.1D			
NEIC	XI	09 20 05 45.9	43.07N	12.77E	10				

NEIC ML3.3(VIE). Less reliable solution.

NEIC Felt I=IV MCS in the epicentral area.

(381) Central Italy

ISC	**XI**	**09 21 06 39.8**±.74	**42.83N**±.042	**12.95E**±.050	**11**±6.4		**41**	**0-8**	
ROM	XI	09 21 06 39.4	42.8N	13.0E	9	3.4D			¶97xi1511
NEIC	XI	09 21 06 39.8	42.86N	12.89E	10				

NEIC ML3.6(VIE), Less reliable solution.

NEIC Felt I=IV MCS in the epicentral area.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(211) South of Honshū						
ISC	**XI 09 21 37 41**±1.0	**33.43N**±.057	**140.9E**±.11	**57**±8.8	**4.1b**	**40**	**1-149**
NEIC	XI 09 21 37 41.0	33.39N	140.80E	56	4.6b		**¶97xi1515**
JMA	XI 09 21 37 41.4±.1	33.51N±.01	140.89E±.01	58±3	4.0		
EIDC	XI 09 21 37 43.0	33.4N	140.8E	56	3.7b		
JMA	Felt I= II J1						
	(73) El Salvador						
ISC	**XI 09 22 56 43.9**±.27	**13.89N**±.032	**88.80W**±.030	**183**±2.9	**5.6b**	**556**	**0-160**
BJI	XI 09 22 56 42.7	13.80N	88.80W	176			**¶97xi1521**
NEIC	XI 09 22 56 42.7	13.85N	88.81W	176	5.6b		
MOS	XI 09 22 56 43.2	13.6N	89.0W	193	5.8b		
EIDC	XI 09 22 56 46.8	13.9N	88.6W	191	5.1b		
HRVD	XI 09 22 56 51.3±.1	13.88N±.01	89.30W±.01	178±.4			
NEIC	Mw6.5(GS), Me5.7(GS)						
NEIC	Mw 6.4 (HRV). Mb 6.1 (BRK). MD 5.0 (SSS). Felt I=IV MM at San Salvador.						
NEIC	Radiated energy from the P−wave first−motion solution: 6.9±2.0×10^{12}Nm/11						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S315°,δ30°,λ90°. NP2:ϕ_S135°,δ60°,λ90°. Principal axes: T Plg75°,Azm45°; P Plg15°,Azm225°. Depth from broadband displacement seismograms.						
NEIC	Moment tensor solution: s40, scale 10^{18}Nm; M_{rr}3.31; $M_{\theta\theta}$−2.43; $M_{\phi\phi}$−0.89; $M_{r\theta}$2.93; $M_{r\phi}$−2.55; $M_{\theta\phi}$2.35. Depth 184km; Principal axes: T 4.98,Plg67°,Azm47°; N 0.80,Plg4°, Azm309°; P −5.78,Plg23°,Azm217°. Best double couple: M$_0$5.4×10^{18}Nm; NP1:ϕ_S300°,δ22°, λ81°. NP2:ϕ_S130°,δ68°,λ94°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c101; Mantle waves: s32,c47; Half duration: 3s8. Moment tensor: Scale 10^{18}Nm; M_{rr}2.07±.03; $M_{\theta\theta}$−1.09±.05; $M_{\phi\phi}$−0.98±.05; $M_{r\theta}$2.38±.03; $M_{r\phi}$−2.38±.02; $M_{\theta\phi}$0.74±.05. Principal Axes: T 4.03,Plg60°,Azm46°; N −0.30,Plg1°,Azm315°; P −3.73,Plg30°,Azm224°. Best double couple: M$_0$3.9×10^{18}Nm, NP1:ϕ_S312°,δ15°,λ87°. NP2:ϕ_S135°,δ75°,λ91°.						
	(381) Central Italy						
ISC	**XI 10 12 26 08.5**±.73	**43.12N**±.033	**12.63E**±.062	**1**±7.4		**39**	**0-7**
ROM	XI 10 12 26 08.1	43.2N	12.7E	3	3.0$_D$		**¶97xi1612**
LDG	XI 10 12 26 10.4	43.0N	12.7E		3.0$_L$		
NEIC	XI 10 12 26 12.8	43.36N	12.40E	10			
NEIC	M$_{L3.5(VIE)}$						
NEIC	Felt I=IV MCS in the epicentral area.						
	(135) Near coast of Central Chile						
ISC	**XI 10 14 13 07.3**±.77	**31.07S**±.055	**71.17W**±.083	**80**±8.1	**4.7b**	**58**	**2-154**
GUC	XI 10 14 13 01.6	30.72S	71.76W	60	4.8$_D$		**¶97xi1620**
NEIC	XI 10 14 13 05.6	30.97S	71.26W	63	4.9b		
EIDC	XI 10 14 13 06.3	31.1S	71.3W	61	4.8b		
NEIC	Felt I=V MM at Punitaqui; IV MM at Canela, Combarbala, Hurtado, Illapel, Monte Patria, Ovalle and Salamanca; II MM at La Serena.						
	(381) Central Italy						
ISC	**XI 10 17 08 52.1**±.71	**43.05N**±.030	**12.82E**±.043	**10**±5.7	**3.8b**	**55**	**0-81**
LDG	XI 10 17 08 50.3	42.9N	13.2E		3.5$_L$		**¶97xi1645**
ROM	XI 10 17 08 52.0	43.1N	12.9E	10	3.6$_D$		
NEIC	XI 10 17 08 52.4	43.09N	12.77E	10			
EIDC	XI 10 17 08 55.0	43.2N	13.2E	0	3.8b,3.8$_L$		
NEIC	M$_{L3.9(VIE)}$						
NEIC	Felt I=V MCS in the epicentral area.						
	(377) Spain						
ISC	**XI 10 17 09 20.6**±.97	**37.90N**±.056	**1.30W**±.068	**5**±6.5		**24**	**0-5**
MDD	XI 10 17 09 22.1	37.9N	1.3W	4	3.0b		**¶97xi1646**
ISC	Felt I=III MM in the Murcia area						
	(656) Eastern Russia						
ISC	**XI 10 17 47 25.6**±.35	**54.94N**±.046	**124.2E**±.11	**33**	**4.1b,3.6s**	**45**	**6-147**
EIDC	XI 10 17 47 22.6	54.9N	124.0E	0	4.0b,4.2$_L$		**¶97xi1652**
BJI	XI 10 17 47 25.0	54.84N	124.06E	30	4.8$_L$,4.4b		
NEIC	XI 10 17 47 25.1	54.94N	123.76E	33	4.5b		
MOS	XI 10 17 47 25.7	54.9N	124.0E	33	4.7b		
BJI	Ms4.4						
MOS	Felt I=III MSK at Tynda.						
	(210) South of the Marianas						
ISC	**XI 10 19 04 23**±1.1	**12.32N**±.031	**145.65E**±.039	**53**±10	**5.2b,5.0s**	**236**	**1-166**
EIDC	XI 10 19 04 21.6	12.4N	145.8E	31	4.9b,4.9s		**¶97xi1660**
HRVD	XI 10 19 04 23.3±.4	12.07N±.03	145.97E±.04	43±3.0			
MOS	XI 10 19 04 23.7	12.4N	145.6E	56	5.6b		
NEIC	XI 10 19 04 24.7	12.36N	145.58E	69	5.2b,5.1s		
BJI	XI 10 19 04 24.8	12.50N	145.71E	69	5.3b,4.9s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c51; Mantle waves: s4,c5; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.51±.05; $M_{\theta\theta}$−0.09±.06; $M_{\phi\phi}$−1.42±.08; $M_{r\theta}$−0.31±.11; $M_{r\phi}$−1.03±.10; $M_{\theta\phi}$−0.21±.05. Principal Axes: T 1.87,Plg72°,Azm112°; N −0.07,Plg4°,Azm11°; P −1.80,Plg18°,Azm280°. Best double couple: M$_0$1.8×10^{17}Nm, NP1:ϕ_S5°,δ27°,λ82°. NP2:ϕ_S193°,δ63°,λ94°.						
NEIC	Mw5.5(GS), Mw5.5(HRV)						
NEIC	Felt I=III MM in the southern part of Guam.						
NEIC	Moment tensor solution: s7, scale 10^{17}Nm; M_{rr}1.43; $M_{\theta\theta}$0.08; $M_{\phi\phi}$−1.51; $M_{r\theta}$−0.38; $M_{r\phi}$−0.64; $M_{\theta\phi}$−0.23. Depth 38km; Principal axes: T 1.63,Plg74°,Azm139°; N 0.06,Plg10°, Azm12°; P −1.69,Plg12°,Azm280°. Best double couple: M$_0$1.7×10^{17}Nm; NP1:ϕ_S357°,δ34°, λ72°. NP2:ϕ_S198°,δ58°,λ101°.						
	(381) Central Italy						
ISC	**XI 10 19 35 54.4**±.73	**42.82N**±.033	**12.92E**±.058	**4**±7.4		**35**	**0-7**
ROM	XI 10 19 35 53.9	42.8N	13.0E	4	3.5$_D$		**¶97xi1663**
NEIC	XI 10 19 35 54.3	42.80N	12.93E	10			
NEIC	M$_L$3.4(VIE). Less reliable solution.						
NEIC	Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**XI 10 22 20 55.9**±.73	**42.88N**±.029	**12.93E**±.038	**10**±6.3		**70**	**0-8**
LDG	XI 10 22 20 53.9	42.8N	13.4E		3.3$_L$		**¶97xi1685**
ROM	XI 10 22 20 56.0	42.9N	12.9E	10	3.2$_D$		
NEIC	XI 10 22 20 56.0	42.89N	12.91E	10			
STR	XI 10 22 21 03.8	43.40N	12.84E	10	3.9$_L$		
NEIC	M$_{L3.7(VIE)}$						
NEIC	Felt I=IV MCS in the epicentral area.						
	(381) Central Italy						
ISC	**XI 10 22 22 33.6**±.61	**42.84N**±.029	**12.93E**±.032	**8**±5.0	**4.0b**	**82**	**0-75**
LDG	XI 10 22 22 33.7	42.7N	13.2E		3.5$_L$		**¶97xi1686**
ROM	XI 10 22 22 33.8	42.8N	13.0E	10	3.7$_D$		
NEIC	XI 10 22 22 34.6	42.91N	12.85E	10	4.1b		
PDG	XI 10 22 22 37.2	41.6N	13.3E	12	4.1$_L$		
EIDC	XI 10 22 22 40.9	42.9N	13.0E	44	3.8$_L$,3.6b		
NEIC	M$_{L4.2(VIE)}$						
NEIC	Felt I=V MCS in the epicentral area.						
	(211) South of Honshū						
ISC	**XI 10 23 06 43.4**±.44	**31.15N**±.022	**140.48E**±.025	**79**±3.6	**5.7b**	**641**	**2-170**
MOS	XI 10 23 06 39.4	31.3N	140.5E	39	6.4b,5.7s		**¶97xi1690**
BJI	XI 10 23 06 41.0	31.28N	140.98E	102	5.5b		
JMA	XI 10 23 06 42.6±.2	31.25N±.02	141.00E±.03	78	6.0		
EIDC	XI 10 23 06 43.8	31.2N	140.5E	71	5.3b,5.5s		
NEIC	XI 10 23 06 44.3	31.19N	140.49E	86	5.8b		
HRVD	XI 10 23 06 45.8±.1	31.27N±.01	140.63E±.01	63±1.3			
NEIC	Mw6.2(GS), Me5.6(GS).						
NEIC	Radiated energy from the P−wave first−motion solution: 6.5±1.6×10^{12}Nm/13						
NEIC	Mw 6.2 (HRV). Felt I=II J1 in southern Chiba Prefecture and on Hachijo-jima. Mo=4.0×10^{18}Nm (PPT).						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S7°,δ88°,λ−60°. NP2:ϕ_S100°,δ30°,λ−176°. Principal axes: T Plg36°,Azm71°; P Plg40°,Azm304°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s36, scale 10^{18}Nm; M_{rr}0.35; $M_{\theta\theta}$−0.07; $M_{\phi\phi}$−0.28; $M_{r\theta}$−0.25; $M_{r\phi}$−1.83; $M_{\theta\phi}$0.03. Depth 63km; Principal axes: T 1.91,Plg50°,Azm99°; N −0.08,Plg2°, Azm7°; P −1.83,Plg40°,Azm276°. Best double couple: M$_0$1.9×10^{18}Nm; NP1:ϕ_S348°,δ5°, λ71°. NP2:ϕ_S188°,δ85°,λ92°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c93; Mantle waves: s26,c33; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}0.32±.02; $M_{\theta\theta}$−0.04±.02; $M_{\phi\phi}$−0.28±.02; $M_{r\theta}$−0.09±.02; $M_{r\phi}$−1.87±.03; $M_{\theta\phi}$−0.41±.01. Principal Axes: T 1.94,Plg49°,Azm81°; N 0.01,Plg12°,Azm185°; P −1.95,Plg39°,Azm284°. Best double couple: M$_0$1.9×10^{18}Nm, NP1:ϕ_S71°,δ13°,λ157°. NP2:ϕ_S184°,δ85°,λ78°.						
	(381) Central Italy						
ISC	**XI 11 00 09 20.4**±.72	**42.84N**±.037	**12.94E**±.063	**12**±6.6		**30**	**0-7**
LDG	XI 11 00 09 15.0	42.5N	13.6E		3.2$_L$		**¶97xi1694**
ROM	XI 11 00 09 20.6	42.8N	13.0E	10	3.2$_D$		
NEIC	XI 11 00 09 20.7	42.80N	12.85E	10			
NEIC	M$_L$3.4(VIE), Less reliable solution.						
NEIC	ML 3.2 (LDG). Felt I=IV MCS in the epicentral area.						
	(221) Kuril Islands						
ISC	**XI 11 19 59 47.7**±.50	**43.52N**±.038	**146.96E**±.043	**71**±4.0	**4.9b**	**268**	**1-152**
EIDC	XI 11 19 59 46.8	43.7N	146.8E	44	4.6b,3.9s		**¶97xi1863**
BJI	XI 11 19 59 47.3	43.62N	146.82E	67	4.9b,4.0s		
SKHL	XI 11 19 59 48.0	43.5N±.14	146.9E±.26	82±5			
NEIC	XI 11 19 59 49.2	43.55N	146.95E	84	5.1b		
JMA	XI 11 19 59 49.3±.3	43.40N±.02	146.85E±.03	64±4	4.8		
MOS	XI 11 19 59 50.0	43.8N	146.9E	82	5.3b		
SKHL	Felt I=IV MSK at Malokurilsk; I=II−III at Yuzhno−Kurilsk						
NEIC	Felt I=IV MM on Shikotan and III MM at Yuzhno-Kurilsk, Kunashir.						
JMA	Felt I=II J1						
	(235) Kyūshū						
ISC	**XI 11 23 58 37.6**±.69	**32.87N**±.038	**130.98E**±.045	**6**±5.6	**4.0b,**3.8s	**31**	**0-72**
JMA	XI 11 23 58 38.2±.0	32.92N±.00	130.97E±.00	12±1	4.1		**¶97xi1899**
BJI	XI 11 23 58 38.2	32.72N	131.75E	59	4.2b,4.5s		
EIDC	XI 11 23 58 39.2	32.6N	130.5E	0	3.8b,3.8$_L$		
NEIC	XI 11 23 58 41.2	32.85N	131.11E	33	4.4b		
JMA	Felt I=III J1						
JMA	Nodal plane solution: N71, Score 93%. NP1:ϕ_S325°,δ39°,λ6°. NP2:ϕ_S229°,δ86°,λ129°. Principle axes: T Plg37°,Azm172°; N Plg38°,Azm45°; P Plg30°,Azm288°.						
NEIC	Less reliable solution.						
	(243) Taiwan region						
ISC	**XI 12 00 09 34.4**±.34	**21.61N**±.028	**121.45E**±.040	**78**±3.0	**4.8b**	**156**	**0-170**
MOS	XI 12 00 09 33.7	21.7N	121.9E	75	5.3b		**¶97xi1903**
BJI	XI 12 00 09 34.0	21.78N	121.52E	60	4.5$_L$,4.8b		
NEIC	XI 12 00 09 34.8	21.60N	121.49E	85	5.0b		
TAP	XI 12 00 09 35.9	21.75N	121.40E	70	5.3$_L$		
EIDC	XI 12 00 09 36.2	21.7N	121.7E	85	4.4b,4.0s		
JMA	XI 12 00 09 37.5±.4	21.89N±.04	121.54E±.05	136			
BJI	Ms4.3						
TAP	Felt I=III J Lanyu, II Kaohsiung						
	(244) Taiwan						
ISC	**XI 12 03 41 12.9**±.74	**23.09N**±.040	**121.40E**±.061	**16**±11		**26**	**0-3**
BJI	XI 12 03 41 05.6	22.63N	121.62E	32	3.5$_L$		**¶97xi1928**
TAP	XI 12 03 41 12.5	23.10N	121.37E	19	4.0$_L$		
JMA	XI 12 03 41 14.8±.4	23.09N±.03	121.51E±.03	60	3.3		
TAP	Felt I=III J Chengkung						
	(238) Ryūkyū Islands						
ISC	**XI 12 07 40 40.5**±.76	**26.37N**±.049	**127.33E**±.048	**18**±7.4	**3.9b,**3.9s	**38**	**0-94**
BJI	XI 12 07 40 32.2	25.66N	127.96E	23	4.1b,4.2s		**¶97xi1954**
EIDC	XI 12 07 40 39.0	26.4N	127.3E	0	3.9b,4.0$_L$		
JMA	XI 12 07 40 40.3±.2	26.38N±.02	127.31E±.01	30	4.4		
NEIC	XI 12 07 40 42.1	26.39N	127.35E	33	4.0b		
JMA	Felt I=II J1						
NEIC	Less reliable solution.						
	(381) Central Italy						
ISC	**XI 12 12 34 30.4**±.74	**42.98N**±.032	**12.88E**±.054	**9**±6.2		**39**	**0-8**
NEIC	XI 12 12 34 29.5	42.89N	12.87E	10			**¶97xi1984**
ROM	XI 12 12 34 30.2	43.0N	12.9E	5	3.5$_D$		
LDG	XI 12 12 34 33.8	43.0N	12.8E		3.3$_L$		
NEIC	M$_{L3.8(VIE)}$						
NEIC	Felt I=V MCS in the epicentral area.						
	(381) Central Italy						
ISC	**XI 12 15 24 24.1**±.89	**43.01N**±.040	**12.57E**±.085	**8**±8.4		**24**	**0-8**
ROM	XI 12 15 24 23.0	43.1N	12.8E	5	3.3$_D$		**¶97xi2003**
LDG	XI 12 15 24 23.5	42.9N	12.8E		3.2$_L$		
NEIC	XI 12 15 24 28.2	43.31N	12.15E	10			
NEIC	M$_L$3.4(VIE), Less reliable solution.						
NEIC	Felt I=IV MCS in the epicentral area.						
	(392) Greece-Albania border region						
ISC	**XI 12 16 26 56.9**±.46	**39.22N**±.022	**20.25E**±.017	**21**±3.9	**4.8b,4.5s**	**367**	**1-147**
EIDC	XI 12 16 26 55.1	39.2N	20.4E	0	4.7b,4.4s		**¶97xi2011**
TIR	XI 12 16 26 55.4	39.10N	20.25E	11	4.5$_L$		
ATH	XI 12 16 26 56.6	39.10N	20.27E	5	4.8$_L$		
BJI	XI 12 16 26 56.6	38.80N	20.51E	33	4.8b,5.1s		
PDG	XI 12 16 26 56.9	39.0N	19.5E	15	4.6$_L$		
NEIC	XI 12 16 26 58.7	39.34N	20.23E	32	4.8b,4.6s		
THE	XI 12 16 26 58.7	39.1N	20.4E	15	4.5$_L$		
MOS	XI 12 16 26 59.7	39.3N	20.2E	33	5.1b,4.4s		
TIR	Felt I=III−IV MSK Saranda, Gjirokastra, Tepelena and Vlora						
ATH	Felt in the regions of Preveza, I=V MCS at Parga, Dryophyto, Anthousa, Kanali, IV at Oropos, Nea− Sampsounta, Mytikas, Ano−Rachi, Koroni, III at Myrsini, Narkissos, Vouvopotamos; on Aitoloakarnania, IV−V at Panaitolio, Pappadatos, Dokimio, IV at Nafpaktos, Grammatikou, Paravola, Megali−Chora, Phyteies, Kainourgio, Analipsi, Lepenou, Thermo, Stamna, Ampelaki, Monastiraki, Vonitsa, Lesinio, Stratos, III−IV at Thyrio, III at Amphilochia, Paliampela, Angelokastro, Galatas, Myrtea, Mataranka; in Arta, IV at Akropotamia, Kommeno, Polydroso, Rachi, Dichomoirio, Kalovatos, Piges, Korphovouni, Mesopyrgos, III−IV at Rokka, Tetrakomo, Kastanea, III at Arta, Koukoulia, Graikiko, Kompoti, Elati, Pantanassa, Kampi, Ammotopos; in Thesprotia, IV at Syvota, Karvounari, Parapotamos, Kastri, Agios−Vlassios, Zervochori, Neochori, III−IV at Asprokklisi, III at Graikochori, Sagiada, Kestrini; in Trikala, IV at Stournaraika, Gomphoi, III at Kastraki, Neochori, Theopetra, Phiki, Vassiliki, Valtino, Megala−Kalyvia.						
ATH	Felt in the regions of Karditsa, I=IV MCS at Anavra, Artessiano, III at Sophades, Mouzaki, Drakotrypa, Mavrommati, Mataranka; in Evrytania, III at Raptopoulo, Phourna; in Ioannina, III at Zitsa, Megalo−Peristeri; and on the Islands of Ithaka, IV−V at Ithaka; on Kerkyra, IV at Ano−Korakiana, Kavvadades, Pagoi, III at Peroulades, Chlomos,						

Liapades, Agios−Matthaios, Velonades, Sokraki, Agioi−Deka; on Paxoi, IV at Paxoi; on Lefkada, III at Exantheia; on Kephallonia, III at Argostoli.
NEIC $M_{L4.8(ROM)}$
NEIC Felt in northwestern Greece.

(73) El Salvador

ISC	**XI**	**12 21 54 13.8**±.38	**13.55N**±.054	**89.55W**±.043	**89**±2.9	**4.7b**	**167**	**0-163**
EIDC	XI	12 21 54 04.9	13.6N	89.0W	0	4.7b		**¶97xi2038**
BJI	XI	12 21 54 14.6	13.70N	89.40W	89	5.8s		
NEIC	XI	12 21 54 14.6	13.70N	89.36W	89	4.8b		
MEX	XI	12 21 54 33.2	13.9N	91.2W	16	5.2_D		

NEIC $M_{D4.6(SSS)}$
NEIC Felt I=IV MM at San Salvador.

(244) Taiwan

ISC	**XI**	**12 22 36 46.2**±.45	**24.17N**±.027	**121.76E**±.034	**21**±4.0	**4.2b**,3.9s	**76**	**0-83**
TAP	XI	12 22 36 45.2	24.14N	121.77E	8	4.8_L		**¶97xi2042**
JMA	XI	12 22 36 46.6±.2	24.49N±.05	121.66E±.02	84±4	4.1		
NEIC	XI	12 22 36 47.3	24.23N	121.87E	33	4.3b		
BJI	XI	12 22 36 47.5	24.45N	121.63E	10	4.6_L,4.5b		
EIDC	XI	12 22 36 58.5	24.2N	121.7E	122	3.8b		

TAP Felt I=III J, II Chiawan, Hwalien, Neicheng, Suao
NEIC Felt I=V MM.
NEIC Felt I=III J at Nan-ao. Felt in northern and eastern Taiwan.
BJI Ms4.4

(244) Taiwan

ISC	**XI**	**12 22 52 41.4**±.42	**24.18N**±.031	**121.73E**±.044	**9**		**29**	**0-7**
TAP	XI	12 22 52 41.0	24.19N	121.68E	9	4.2_L		**¶97xi2044**
JMA	XI	12 22 52 41.8±.3	24.44N±.05	121.67E±.02	92			
BJI	XI	12 22 52 43.8	24.32N	121.80E	43	3.8_L,4.4b		

TAP Felt I=III J, II Neicheng, I Hwalien

(381) Central Italy

ISC	**XI**	**13 00 14 59.5**±.73	**42.91N**±.034	**12.78E**±.061	**8**±6.8		**32**	**0-7**
ROM	XI	13 00 14 59.0	42.9N	12.9E	6	3.1_D		**¶97xi2054**
NEIC	XI	13 00 14 59.3	42.89N	12.77E	10			
LDG	XI	13 00 15 00.1	42.9N	13.0E		3.1_L		

NEIC M_L3.2(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(277) Java

ISC	**XI**	**13 02 55 38.7**±.71	**7.4S**±.10	**106.79E**±.068	**80**±7.3	**4.3b**	**37**	**0-156**
EIDC	XI	13 02 55 36.5	7.2S	106.8E	44	4.2b,3.7s		**¶97xi2069**
NEIC	XI	13 02 55 38.7	7.38S	106.80E	80	4.5b		

NEIC Felt I=III MM at Sukabumi.

(221) Kuril Islands

ISC	**XI**	**13 03 21 34.7**±.48	**43.42N**±.038	**146.25E**±.042	**74**±4.0	**4.7b**	**211**	**0-153**
NEIC	XI	13 03 21 33.1	43.45N	146.23E	60	5.0b		**¶97xi2073**
BJI	XI	13 03 21 33.3	43.75N	146.25E	61	5.0b,4.1s		
MOS	XI	13 03 21 33.5	43.3N	146.3E	70	5.4b		
SKHL	XI	13 03 21 36.0	43.5N±.13	146.1E±.20	75±2			
JMA	XI	13 03 21 36.5±.2	43.36N±.01	146.21E±.02	60±2	4.8		
EIDC	XI	13 03 21 38.2	43.5N	146.1E	92	4.4b,3.6s		

NEIC Felt I=V MM.
NEIC Felt I=III J1 in the Kushiro area, Hokkaido and II J1 in other parts of eastern Hokkaido. Also felt II MM at Yuzhno-Kurilsk, Kunashir.
SKHL K11 Felt I=III MSK at Malokurilsk; I=II−III at Juzhno−Kurilsk

(244) Taiwan

ISC	**XI**	**13 06 36 18.1**±.47	**22.78N**±.042	**120.80E**±.051	**27**±6.9		**23**	**0-4**
TAP	XI	13 06 36 17.6	22.76N	120.81E	24	3.9_L		**¶97xi2091**
JMA	XI	13 06 36 18.4±.5	22.64N±.06	120.93E±.05	104			

TAP Felt I=III J, I Kaohsiung

(211) South of Honshū

ISC	**XI**	**13 17 56 21.2**±.36	**33.59N**±.037	**139.67E**±.039	**124**±2.8	**4.8b**	**195**	**0-155**
BJI	XI	13 17 56 11.8	33.44N	140.69E	115	4.7b		**¶97xi2175**
MOS	XI	13 17 56 19.4	33.6N	139.8E	115	5.2b		
NEIC	XI	13 17 56 20.1	33.61N	139.63E	115	4.9b		
EIDC	XI	13 17 56 21.7	33.6N	139.8E	116	4.5b		
JMA	XI	13 17 56 21.9±.2	33.68N±.01	139.91E±.01	112±2	4.9		

NEIC Felt I=III MM.
NEIC Felt I=II J1 in southern Chiba Prefecture.
JMA Nodal plane solution: N215, Score 94%. NP1:ϕ_S95°,δ29°,λ177°. NP2:ϕ_S188°,δ88°,λ61°. Principle axes: T Plg40°,Azm72°; N Plg29°,Azm189°; P Plg37°,Azm304°.

(381) Central Italy

ISC	**XI**	**14 00 20 42.1**±.71	**42.94N**±.031	**12.82E**±.052	**11**±6.1		**43**	**0-8**
ROM	XI	14 00 20 41.6	43.0N	12.9E	5	3.2_D		**¶97xi2209**
NEIC	XI	14 00 20 43.4	43.09N	12.70E	10			
LDG	XI	14 00 20 44.6	43.0N	12.8E		3.3_L		

NEIC $M_{L3.6(VIE)}$
NEIC Felt I=IV MCS in the epicentral area.

(473) Pennsylvania

ISC	**XI**	**14 03 44 11**±1.4	**40.20N**±.050	**76.29W**±.069	**2**±12		**23**	**1-7**
OTT	XI	14 03 44 11.0	40.2N	76.3W	7	3.0_N		**¶97xi2234**
NEIC	XI	14 03 44 11.0	40.15N	76.25W	5			

OTT Pennsylvania
NEIC mbLg3.0(GS)
NEIC Felt in the Lititz-Lancaster area. Also felt at Coatesville.

(244) Taiwan

ISC	**XI**	**14 04 29 51.9**±.41	**24.17N**±.021	**121.79E**±.026	**21**±3.1	**4.9b,4.8s**	**214**	**0-168**
TAP	XI	14 04 29 50.8	24.16N	121.76E	3	5.4_L		**¶97xi2236**
JMA	XI	14 04 29 52.0±.3	24.34N±.07	121.60E±.02	80	5.3		
BJI	XI	14 04 29 53.2	24.39N	121.69E	19	5.3_L,4.8b		
MOS	XI	14 04 29 53.3	24.3N	121.9E	33	5.4b,5.1s		
NEIC	XI	14 04 29 53.4	24.16N	121.86E	33	5.2b,4.8s		
EIDC	XI	14 04 29 54.6	24.2N	121.8E	32	4.5b,4.5s		

TAP Felt I=V J, III Chiawan, Hwalien, II Suao, Tachien, Neicheng, Ilan, Sun Moon Lake, I Taipei, Kuangyinshan
BJI Ms5.2
NEIC Casualties I=VIII MM, landslide/avalanche observed.
NEIC One person injured by a landslide on the coastal highway between Hua-lien and Su-ao. Felt I=V J at Hua-lien. Felt in much of Taiwan.

(228) Near east coast of Honshū

ISC	**XI**	**14 04 49 03**±3.4	**36.3N**±.19	**140.8E**±.29	**61**±29		**12**	**0-2**
JMA	XI	14 04 49 04.8±.1	36.42N±.01	140.69E±.01	56±2	3.5		**¶97xi2241**

JMA Felt I=II J1

(39) Central California

ISC	**XI**	**14 06 53 28.4**±.61	**35.65N**±.028	**118.22W**±.044	**11**±5.4	3.3b	**43**	**0-34**
EIDC	XI	14 06 53 26.5	35.6N	118.5W	0	3.3_L,3.2b		**¶97xi2253**
NEIC	XI	14 06 53 28.9	35.66N	118.27W	12			

NEIC M_D3.7(GM), M_L3.6(PAS). Felt, After PAS.
NEIC ML 3.6 (GS). Felt at Lake Isabella.

(365) Ægean Sea

ISC	**XI**	**14 21 38 49.4**±.70	**38.82N**±.017	**25.82E**±.014	**2**±4.5	**5.5b,5.8s**	**685**	**1-142**
PDG	XI	14 21 38 04.8	36.4N	29.1E	13	5.6_L		**¶97xi2350**
ISK	XI	14 21 38 49.8	38.86N	25.74E	12	5.1_D		
EIDC	XI	14 21 38 50.3	38.8N	25.8E	0	$5.3b,4.5_L$		
BJI	XI	14 21 38 51.0	39.19N	25.47E	26	5.6b,6.0s		
CSEM	XI	14 21 38 51.4	38.78N	25.63E	15			
RYD	XI	14 21 38 51.4	38.78N	25.63E	10	5.5_D		
NEIC	XI	14 21 38 51.6	38.86N	25.80E	18	5.6b,5.8s		
THE	XI	14 21 38 51.7	38.7N	25.9E	20	5.1_L		
ATH	XI	14 21 38 52.7	38.80N	25.87E	25	5.4_L		
MOS	XI	14 21 38 53.6	38.9N	25.8E	33	6.0b,5.7s		
HRVD	XI	14 21 38 55.2±.2	38.74N±.02	25.77E±.05	15			

CSEM Mw6.1. M_0=1.4±1.0×10^{18}Nm. Fault plane solution NP1:ϕ_S241°,δ71°,λ−151°. NP2:ϕ_S141°, δ63°,λ−21°. Principal Axes: T Plg5°,Azm9°; N Plg56°,Azm271°; P Plg34°,Azm103°.
NEIC Mw6.1(CSEM)
NEIC Mw 6.0 (GS), 5.9 (HRV). MD 5.1 (ISK). Felt in much of northern Greece and on the northern Aegean Islands. Also felt in Aydin, Balikesir, Bursa, Canakkale, Istanbul, Izmir and Manisa, Turkey.
NEIC Moment tensor solution: s14, scale 10^{18}Nm; M_{rr}0.06; $M_{\theta\theta}$1.10; $M_{\phi\phi}$−1.17; $M_{r\theta}$0.01; $M_{r\phi}$0.04; $M_{\theta\phi}$−0.39. Depth 13km; Principal axes: T 1.17,Plg0°,Azm9°; N 0.07,Plg88°,Azm277°; P −1.23,Plg2°,Azm99°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S144°,δ89°,λ−1°. NP2: ϕ_S234°,δ89°,λ−179°.
ATH Felt on the Islands of Lesvos, I=V MCS at Polychnitos, Loutra, Panagiouda, Pamphylla, Vrissa, Anemotia, IV−V at Mithymna, Kato−Tritos, Vassilika, Messagros, IV at Mytilini, Plomari, Eressos, Thermi, Palaiochori, Pappados, Moria, Aphalonas, Pakaiokipos, Skopelos, Kleio, Stypsi, Messotopos, Kapi, Ippeio, Antissa, III at Sigri; on Chios, V at Neochori, Lithio, IV−V at Daphnonas, IV at Vrontados, Pyrgi, Agios−Georgios−Sykousis, Olympoi, Thymiana, Karyes, Volissos, Elata, Nenita; on Euboea, IV at Aphrati, Nea−Styra, Rovies, III at Kymi, Amarynthos; on Limnos, IV at Kontias, III at Myrina, Moudros, Atsiki; on Agios−Efstratios, IV at Agios−Efstratios; on Ikaria, IV at Agios−Kirykos; on Samos, III at Vathy, Koumaiika, Pagouda, Mytilinioi, Pyrgos−Samou, Vourliotes, Chora; on Skyros, III at Skyros; on Phournoi, III at Phournoi; on Paros, III at Naoussa; on Tinos, III at Tinos; on Kalymnos, II at Kalymnos; and in the regions of Attiki, IV at Athina, Raphina, Ilioupoli, III at Vilia, Keratea, Markopoulo−Messogaias, Megara, Mandra; in Magnesia III at Almyros; in Boeotia, III at Thivai, Orchomenos, Distomo, Kaparelli.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c61; Mantle waves: s14,c20; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.12±.13; $M_{\theta\theta}$7.05±.14; $M_{\phi\phi}$−4.92±.17; $M_{r\theta}$2.06±.59; $M_{r\phi}$1.39±.46; $M_{\theta\phi}$−3.32±.16. Principal Axes: T 8.17,Plg9°,Azm13°; N −1.59,Plg65°,Azm263°; P −6.59,Plg23°,Azm107°. Best double couple: $M_0$7.4×10^{17}Nm, NP1:ϕ_S148°,δ67°,λ−10°. NP2:ϕ_S242°,δ80°,λ−156°.

(224) Hokkaido region

ISC	**XI**	**14 22 51 37.6**±.27	**42.62N**±.035	**141.85E**±.047	**134**±2.7	**4.5b**	**108**	**0-152**
BJI	XI	14 22 51 37.0	42.37N	141.87E	146	4.7b		**¶97xi2370**
SKHL	XI	14 22 51 37.0	42.5N±.10	141.9E±.20	131±6			
NEIC	XI	14 22 51 37.2	42.66N	141.79E	130	4.6b		
JMA	XI	14 22 51 38.5±.1	42.59N±.01	141.92E±.01	126±2	4.3		
EIDC	XI	14 22 51 38.9	42.7N	141.8E	131	4.2b		

SKHL K_{10}
JMA Felt I=II J1
JMA Nodal plane solution: N130, Score 99%. NP1:ϕ_S90°,δ21°,λ−76°. NP2:ϕ_S256°,δ69°,λ−95°. Principle axes: T Plg24°,Azm350°; N Plg5°,Azm258°; P Plg66°,Azm158°.

(97) Near coast of Venezuela

ISC	**XI**	**15 02 34 35.5**±.45	**10.49N**±.039	**62.85W**±.031	**52**±4.1	**4.5b,3.7s**	**110**	**1-149**
TRN	XI	15 02 34 32.6	10.5N	62.8W	3	4.6_D		**¶97xi2402**
NEIC	XI	15 02 34 34.8	10.46N	62.88W	48	4.7b,4.1s		
EIDC	XI	15 02 34 47.0	10.4N	62.9W	145	3.9b,3.6s		

TRN Felt in Sucre, Venezuela. Also felt in Sangre Grande, Trinidad

(228) Near east coast of Honshū

ISC	**XI**	**15 04 42 35.1**±.51	**36.86N**±.037	**141.33E**±.052	**72**±4.0	**4.8b**	**158**	**0-147**
BJI	XI	15 04 42 31.3	36.86N	141.34E	46	5.0b,4.0s		**¶97xi2418**
JMA	XI	15 04 42 34.1±.1	36.87N±.00	141.52E±.02	64±3	4.9		
EIDC	XI	15 04 42 34.1	36.8N	141.5E	51	4.3b,4.1s		
MOS	XI	15 04 42 34.8	36.9N	141.4E	72	5.5b		
NEIC	XI	15 04 42 35.4	36.86N	141.36E	75	4.9b		

JMA Nodal plane solution: N176, Score 94%. NP1:ϕ_S34°,δ41°,λ143°. NP2:ϕ_S155°,δ66°,λ56°. Principle axes: T Plg55°,Azm21°; N Plg31°,Azm170°; P Plg15°,Azm269°.
NEIC Felt I=V MM.
NEIC Felt I=III J1 in eastern Fukushima and II J1 in much of Ibaraki and Tochigi Prefectures. Also felt II J in southeastern Iwate and southern Miyagi Prefectures.

(40) California-Nevada border region

ISC	**XI**	**15 06 00 19.9**±.17	**37.18N**±.020	**117.81W**±.023	**5**	**4.7b,4.4s**	**179**	**1-150**
EIDC	XI	15 06 00 19.7	37.2N	117.8W	0	$4.5b,4.1_L$		**¶97xi2427**
NEIC	XI	15 06 00 19.8	37.18N	117.79W	5	4.7b,4.6s		

NEIC M_L5.3(BRK), Mw5.0(BRK). Felt.
NEIC Felt in the Bishop area and at Mariposa, California. Also felt at Beatty and Hawthorne, Nevada.

(224) Hokkaido region

ISC	**XI**	**15 07 05 16.3**±.25	**43.79N**±.023	**145.03E**±.028	**158**±2.3	**5.8b**	**687**	**0-157**
SKHL	XI	15 07 05 16.0	43.8N±.12	145.1E±.20	158±5			**¶97xi2436**
BJI	XI	15 07 05 16.3	44.06N	144.94E	160	5.8b		
MOS	XI	15 07 05 16.4	44.1N	145.0E	148	6.3b		
NEIC	XI	15 07 05 16.6	43.81N	145.02E	161	5.8b		
EIDC	XI	15 07 05 17.1	43.8N	145.0E	156	5.7b		
JMA	XI	15 07 05 17.4±.2	43.65N±.01	145.09E±.01	153±2	6.1		
HRVD	XI	15 07 05 18.8±.1	43.82N±.01	145.07E±.02	157±.5			

SKHL Felt I=IV MSK at Malokurilsk; I=II−III at Juzhno−Kurilsk
NEIC Mw6.1(GS), Me6.0(GS). Felt I=VI MM.
NEIC Radiated energy from the P−wave first−motion solution: 2.1±0.5×10^{13}Nm/12
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S80°,δ80°,λ80°. NP2:ϕ_S305°,δ14°,λ135°. Principal axes: T Plg54°,Azm338°; P Plg34°,Azm179°. Depth from broadband displacement seismograms.
NEIC Mw 6.1 (HRV). Felt I=IV J in the Kushiro area. Felt II J in much of southeastern Hokkaido and in parts of Aomori, Iwate and Miyagi Prefectures, Honshu. Also felt II MM at Yuzhno-Kurilsk, Kunashir.
NEIC Moment tensor solution: s37, scale 10^{18}Nm; M_{rr}0.27; $M_{\theta\theta}$−0.07; $M_{\phi\phi}$−0.20; $M_{r\theta}$1.30; $M_{r\phi}$0.52; $M_{\theta\phi}$0.30. Depth 150km; Principal axes: T 1.60,Plg46°,Azm333°; N −0.38,Plg8°, Azm72°; P −1.22,Plg43°,Azm170°. Best double couple: $M_0$1.4×10^{18}Nm; NP1:ϕ_S329°,δ9°, λ167°. NP2:ϕ_S72°,δ88°,λ81°.
JMA Nodal plane solution: N171, Score 94%. NP1:ϕ_S183°,δ21°,λ20°. NP2:ϕ_S74°,δ83°,λ111°. Principle axes: T Plg48°,Azm5°; N Plg19°,Azm251°; P Plg35°,Azm147°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c83; Mantle waves: s31,c55; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}0.11±.01; $M_{\theta\theta}$0.08±.02; $M_{\phi\phi}$−0.19±.02; $M_{r\theta}$1.36±.01; $M_{r\phi}$0.46±.01; $M_{\theta\phi}$−0.10±.02. Principal Axes: T 1.50,Plg46°,Azm347°; N −0.10,Plg7°,Azm250°; P −1.40,Plg43°,Azm154°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S171°,δ7°,λ11°. NP2:ϕ_S70°,δ89°,λ97°.

(364) Greece

ISC	**XI**	**15 08 25 14.4**±.59	**38.08N**±.051	**22.92E**±.081	**39**±13	3.6b	**26**	**1-25**
EIDC	XI	15 08 25 00.3	37.2N	23.9E	0	3.7b		**¶97xi2444**
NEIC	XI	15 08 25 07.0	37.55N	23.53E	33			
ATH	XI	15 08 25 13.8	37.97N	22.82E	5	3.8_D		
THE	XI	15 08 25 13.9	38.1N	22.9E	22	3.4_L		

NEIC Poor solution.
NEIC Felt at Corinth.

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	*n*	Δ-Rng °
		(40) California-Nevada border region						
ISC	**XI**	**15 17 20 40.6**±.38	**37.62N**±.040	**118.99W**±.040	**8**		**29**	**0-5**
NEIC	XI	15 17 20 39.5	37.64N	118.99W	8			¶97xi2511
NEIC	M_L3.5(BRK), M_D3.4(GM). Felt, After GM−P.							
NEIC	ML 3.4 (GS). Felt at Mammoth Lakes, California.							
		(39) Central California						
ISC	**XI**	**16 00 00 48**±1.1	**36.77N**±.069	**121.63W**±.091	**10**±7.9		**24**	**0-4**
NEIC	XI	16 00 00 49.1	36.82N	121.55W	7			¶97xi2571
NEIC	M_L3.5(BRK), M_D3.4(GM). Felt, After GM−P.							
NEIC	ML 3.4 (GS). Felt in the epicentral area.							
		(327) Lake Baikal region						
MOS	**XI**	**16 02 56 23.6**	**56.2N**	**111.9E**	**31**	**4.7b,4.1s**		¶97xi2585
NEIC	XI	16 02 56 18.6	55.97N	111.16E	10	4.5b		
EIDC	XI	16 02 56 18.8	56.0N	111.0E	0	3.8b,4.2L		
BJI	XI	16 02 56 22.5	56.19N	111.78E	13	4.3b,4.6s		
MOS	Felt I=II−III MSK at Novyj Uoyan.							
NEIC	Less reliable solution.							
		(7) Andreanof Islands						
ISC	**XI**	**16 04 49 42.3**±.20	**51.62N**±.044	**173.47W**±.035	**46**±.6*	**5.1b,4.6s**	**313**	**2-153**
BJI	XI	16 04 49 39.8	51.71N	173.58W	32	5.4b,4.9s		¶97xi2598
MOS	XI	16 04 49 40.7	51.7N	173.5W	33	5.3b,4.4s		
NEIC	XI	16 04 49 40.7	51.66N	173.43W	33	5.1b,4.6s		
HRVD	XI	16 04 49 42.1±.1	51.43N±.01	173.52W±.04	34±1.4			
EIDC	XI	16 04 49 44.1	51.7N	173.5W	45	4.6b		
NEIC	Mw5.2(HRV), M_L5.0(PMR)							
NEIC	Felt I=III MM on Adak.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c14; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.92±.82; $M_{\theta\theta}$−4.58±.83; $M_{\phi\phi}$−1.34±1.23; $M_{r\theta}$3.76±2.21; $M_{r\phi}$−0.09±4.78; $M_{\theta\phi}$0.93±1.36. Principal Axes: T 7.13,Plg72°,Azm356°; N −1.16,Plg5°,Azm100°; P −5.97,Plg17°,Azm192°. Best double couple: $M_0$6.6×10^{16}Nm, NP1: ϕ_S289°,δ28°,λ100°. NP2:ϕ_S98°,δ63°,λ85°.							
		(244) Taiwan						
ISC	**XI**	**16 06 33 57.4**±.62	**23.83N**±.053	**121.53E**±.065	**19**±8.5		**19**	**0-2**
TAP	XI	16 06 33 57.4	23.91N	121.45E	16	3.6L		¶97xi2606
JMA	XI	16 06 33 58.3±.4	23.92N±.06	121.51E±.03	85	3.0		
TAP	Felt I=IV							
		(274) Southern Sumatera						
ISC	**XI**	**16 08 18 15.9**±.72	**4.92S**±.033	**103.20E**±.037	**56**±6.6	**5.4b,4.7s**	**241**	**2-157**
BJI	XI	16 08 18 15.7	4.95S	103.09E	60	5.5b,4.8s		¶97xi2614
KLM	XI	16 08 18 16	4.9S	103.1E	58	5.1L		
NEIC	XI	16 08 18 16.3	4.96S	103.19E	58	5.5b		
MOS	XI	16 08 18 16.6	4.8S	103.2E	57	5.9b,4.7s		
EIDC	XI	16 08 18 17.7	5.0S	103.2E	55	5.0b		
HRVD	XI	16 08 18 20.6±.6	5.31S±.06	102.89E±.07	50			
KLM	Mb5.5							
NEIC	Mw5.3(GS), Mw5.3(HRV)							
NEIC	Felt I=III MM at Bengkulu.							
NEIC	Moment tensor solution: s7, scale 10^{17}Nm; M_{rr}0.90; $M_{\theta\theta}$0.16; $M_{\phi\phi}$−1.07; $M_{r\theta}$0.22; $M_{r\phi}$−0.29; $M_{\theta\phi}$0.06. Depth 52km; Principal axes: T 1.00,Plg74°,Azm28°; N 0.11,Plg14°, Azm174°; P −1.11,Plg9°,Azm266°. Best double couple: $M_0$1.1×10^{17}Nm; NP1:ϕ_S12°,δ38°, λ112°. NP2:ϕ_S164°,δ55°,λ73°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c34; Mantle waves: s1,c1; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}7.20±.49; $M_{\theta\theta}$−6.54±.74; $M_{\phi\phi}$−0.66±.77; $M_{r\theta}$3.94±.98; $M_{r\phi}$−3.15±1.10; $M_{\theta\phi}$4.19±.71. Principal Axes: T 8.7,Plg72°,Azm53°; N 1.4,Plg7°,Azm301°; P −10.1,Plg16°,Azm209°. Best double couple: $M_0$9.4×10^{16}Nm, NP1:ϕ_S289°,δ29°,λ76°. NP2:ϕ_S124°,δ61°,λ98°.							
		(238) Ryūkyū Islands						
ISC	**XI**	**16 21 10 26**±1.4	**26.4N**±.15	**127.7E**±.13	**13**±20		**9**	**0-3**
JMA	XI	16 21 10 26.2±.1	26.37N±.01	127.69E±.01	17±4	3.9		¶97xi2696
JMA	Felt I=III J1							
		(405) Azores						
ISC	**XI**	**17 00 59 28.1**±.70	**38.14N**±.093	**26.13W**±.068	**16**±7.7	**3.8b**	**26**	**1-71**
ADH	XI	17 00 59 29.7	37.85N	26.24W		3.7D		¶97xi2720
NEIC	XI	17 00 59 30.3	38.09N	25.93W	33			
EIDC	XI	17 00 59 31.6	38.2N	26.0W	28	3.6b		
ADH	Felt I=III MM on Sao Miguel (w), II on Terceira at Angra do Heroismo							
NEIC	Less reliable solution.							
		(383) Northwestern Balkan region						
LJU	**XI**	**17 04 19 46.6**	**45.9N**	**16.3E**	**9**			¶97xi2735
ZAG	Felt Blaskovec, Adamovec							
		(244) Taiwan						
ISC	**XI**	**17 04 58 53**±1.1	**24.05N**±.050	**121.79E**±.097	**9**		**18**	**0-2**
TAP	XI	17 04 58 53.3	24.13N	121.67E	9	3.9L		¶97xi2738
TAP	Felt I=IV J, III Chiawan, I Hwalien							
		(7) Andreanof Islands						
ISC	**XI**	**17 05 04 36.7**±.88	**51.78N**±.064	**176.05W**±.043	**62**±8.0	**4.8b**	**157**	**0-152**
BJI	XI	17 05 04 34.4	51.65N	176.03W	54	5.0b,4.6s		¶97xi2739
NEIC	XI	17 05 04 35.4	51.79N	176.03W	51	5.1b		
MOS	XI	17 05 04 35.5	51.7N	176.0W	50	5.2b		
HRVD	XI	17 05 04 37.0±.6	51.64N±.05	175.86W±.09	62±3.1			
EIDC	XI	17 05 04 37.4	51.7N	176.0W	54	4.1b,4.3s		
NEIC	Mw5.2(HRV)							
NEIC	Felt on Adak.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c37; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.42±.28; $M_{\theta\theta}$−5.41±.40; $M_{\phi\phi}$−1.02±.37; $M_{r\theta}$1.33±.47; $M_{r\phi}$2.36±.70; $M_{\theta\phi}$−3.12±.47. Principal Axes: T 7.12,Plg74°,Azm278°; N 0.28, Plg12°,Azm59°; P −7.41,Plg10°,Azm151°. Best double couple: $M_0$7.3×10^{16}Nm, NP1: ϕ_S255°,δ37°,λ111°. NP2:ϕ_S50°,δ56°,λ75°.							
		(381) Central Italy						
ISC	**XI**	**17 11 07 28.0**±.64	**43.09N**±.031	**12.81E**±.042	**10**±5.0	3.8b	**62**	**0-75**
LDG	XI	17 11 07 26.7	42.9N	13.1E		3.5L		¶97xi2783
NEIC	XI	17 11 07 27.3	43.05N	12.79E	10			
ROM	XI	17 11 07 28.5	43.1N	12.8E	5	3.5D		
EIDC	XI	17 11 07 30.8	43.2N	13.4E	0	3.9L,3.8b		
STR	XI	17 11 07 32.8	43.12N	12.43E	10	4.1L		
NEIC	M_L4.0(VIE)							
NEIC	Felt I=V MCS in the epicentral area.							
		(544) Switzerland						
ISC	**XI**	**17 17 09 20.7**±.24	**47.60N**±.024	**7.52E**±.033	**18**		**88**	**0-7**
NEIC	XI	17 17 09 21.5	47.61N	7.53E	33			¶97xi2836
STR	XI	17 17 09 21.8	47.65N	7.59E	10	3.4L		
ZUR	XI	17 17 09 22.6	47.65N	7.63E	18	3.1L		
LEDBW	XI	17 17 09 22.6	47.64N	7.62E	17	3.5L		
LDG	XI	17 17 09 22.7	47.6N	7.6E		3.6L		
SZGRF	XI	17 17 09 24.9	47.7N	7.7E	39	3.5L		
NEIC	ML 3.6 (VIE), 3.4 (FUR), 3.2 (DBN).							
LEDBW	Felt I=IV MSK							
		(381) Central Italy						
ISC	**XI**	**17 22 51 57.4**±.65	**43.05N**±.034	**12.83E**±.055	**11**±5.5		**36**	**0-7**
NEIC	XI	17 22 51 56.4	42.99N	12.85E	10			¶97xi2872
LDG	XI	17 22 51 56.5	42.9N	13.1E		3.3L		
ROM	XI	17 22 51 56.8	43.1N	12.9E	10	3.3D		
NEIC	M_L3.6(VIE), Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
		(29) Washington State						
ISC	**XI**	**18 01 53 06.5**±.34	**46.15N**±.029	**120.43W**±.032	**22**±5.1		**55**	**0-6**
NEIC	XI	18 01 53 06.3	46.14N	120.47W	16			¶97xi2896
NEIC	M_D3.8(SEA), M_L3.8(GS). Felt, After SEA.							
		(40) California-Nevada border region						
ISC	**XI**	**18 01 56 06.9**±.42	**37.60N**±.044	**118.92W**±.043	**8**		**31**	**0-6**
NEIC	XI	18 01 56 06.0	37.64N	118.94W	8			¶97xi2897
NEIC	M_L3.5(BRK), M_D3.4(GM). Felt, After GM−P.							
NEIC	ML 3.4 (GS). Felt at Mammoth Lakes, California.							
		(14) Kenai Peninsula						
ISC	**XI**	**18 06 16 40.1**±.20	**60.54N**±.023	**150.78W**±.041	**55**±5.4	**3.9b**	**111**	**0-58**
NEIC	XI	18 06 16 41.6	60.58N	150.92W	46	3.5b		¶97xi2918
EIDC	XI	18 06 16 45.0	60.6N	149.9W	40	3.7b,3.7L		
NEIC	M_L4.2(AEIC), M_L4.0(PMR). Felt, After AEIC.							
NEIC	Felt at Kasilof and Soldotna.							
		(358) Romania						
ISC	**XI**	**18 11 23 16.3**±.23	**45.68N**±.022	**26.71E**±.028	**125**±3.2	**4.4b**	**194**	**0-118**
BJI	XI	18 11 23 13.7	45.95N	26.52E	105	4.6b		¶97xi2952
NEIC	XI	18 11 23 15.6	45.72N	26.73E	118	4.5b		
MOS	XI	18 11 23 16.1	45.7N	26.7E	122	4.8b		
BUC	XI	18 11 23 16.3	45.78N	26.72E		5.1D		
EIDC	XI	18 11 23 17.6	45.7N	26.6E	119	4.1b		
PDG	XI	18 11 23 25.0	45.7N	25.7E	100	4.2L		
NEIC	Felt I=V MSK in the epicentral area and IV MSK at Bucharest. Felt at Galati, Iasi and Tulcea. Also Felt IV MSK at Chisinau, Moldova.							
MOS	Felt I=IV MSK at Kishinev.							
		(228) Near east coast of Honshū						
ISC	**XI**	**18 12 49 55.5**±.62	**40.95N**±.047	**142.0E**±.11	**65**±6.8	**3.7b**	**27**	**1-75**
JMA	XI	18 12 49 55.8±.1	40.95N±.00	141.99E±.01	56±3	3.8		¶97xi2961
NEIC	XI	18 12 49 58.8	40.92N	142.01E	100	4.7b		
EIDC	XI	18 12 50 11.7	40.9N	142.0E	201	3.3b		
NEIC	Felt I=III MM, Less reliable solution.							
NEIC	Felt I=II J1 in southern Aomori Prefecture.							
		(399) Ionian Sea						
ISC	**XI**	**18 13 07 38.3**±.12	**37.48N**±.016	**20.69E**±.014	**10**	**5.8b,6.5s**	**711**	**1-147**
PDG	XI	18 13 07 34.0	37.0N	19.6E	10	6.1D		¶97xi2964
ATH	XI	18 13 07 36.9	37.26N	20.49E	5	6.1L		
EIDC	XI	18 13 07 38.3	37.5N	20.8E	0	5.4b,6.6s		
CSEM	XI	18 13 07 39.2	37.49N	20.54E	15			
RYD	XI	18 13 07 39.2	37.49N	20.54E	10	5.8b		
THE	XI	18 13 07 39.7	37.4N	20.6E	10	6.1L		
NEIC	XI	18 13 07 41.7	37.57N	20.66E	33	5.9b,6.4s		
MOS	XI	18 13 07 42.1	37.6N	20.7E	33	6.1b,6.6s		
BJI	XI	18 13 07 42.5	37.58N	20.69E	48	5.8b,6.8s		
HRVD	XI	18 13 07 52.9±.1	37.33N±.01	20.84E±.01	23±.8			
ATH	Felt in the regions of Heleia, I=VI−V MCS at Andravida, Vardas, Avgeio, Vounargo, Vrina, Krestena, VI at Gastouni, Agios−Georgios, Vytinaiika, Gryllos, Pefkes, Chelidoni, V−VI at Kakovatos, Pelopio, Skilluntia, Keramidia, Katakolo, Nea−Manolada, Kapeleto, Savalia, Myronia, Nemouta, Dragonio, Skourochori, Myrsini, Irakleia, Goumero, Kakotario, Matesi, Koumanis, Agia−Mavra, Samiko, Lanthio, Graikas, Kardamas, Platanos, V at Milea, Tsipiana, Chavario, Antronio, Oinoi, Ephyra, Simopoulo, Lechaina, Anthonas, Theisoa, IV−V at Tragano, Achladini, IV at Agia−Kyriaki, Neochori, III at Anthochori; in Messinia, V−VI at Messini, Psari, Sidirokastro, Thouria, Kampos, Androusa, Arphara, Petalidi, Pilalistra, Eva, Oichalia, Avramio, Platy, V at Dorio, Vasiliko, Melpeia, Vasilitsi, Verga, IV−V at Nedousa, Zermpisia; in Achaia, V at Starochori, Arla, Kerpini, Sagaiika, Mitopoli, Vrachnaiika, Diakophto, Platanos, Isoma, Livartzi, Ovria, Kankadi, Daphnes, Zarouchla, IV−V at Vorino, Kalentzi, Akrata, Ano−Kastritsi, IV at Daphni, Elaionas, Chalandritsa, Kato−Kleitoria, Ano−Kleitoria, Mintilogli, Aigeira, Longos, Drosia, Lousika, Plilia, Manesi, Kato−Vlassia, Ziria, Myrtos, Krinos, Kalphas, III at Kamares, Aroania, Skepasto, Lykouria, Kertezi, Krinophyta, Kalliphonio, Kounina.							
ATH	Felt in the regions of Lakonia, I=V MCS at Vlachiotis, Amykles, Agios−Ioannis, IV−V at Kastoreio, IV at Gytheio, Xirokampi, Karyes, Sellasia, Skala, Vrontamas, Sykea, Mystras, Daphnio, Vresthena, Pappadianika, Skoura, Niata, Neapoli, III at Molaoi, Longanikos; in Korinthia, IV−V at Nemea, Velo, IV at Isthmia, Zevgolateio, Sophiko, Athikia, Agios−Vasileios, III at Loutraki; in Argolida, IV−V at Nea−Kios, IV at Nafplio, Ermioni, Assini, Karya, Agia−Triada, III at Lygourio; in Larisa, III at Larisa; and on the Islands of Zakynthos, VI at Keri, Lithakia, V−VI at Agalas, Maries, Mouzaki, V at Zakynthos, Volimes, Ampelokipoi; on Kephallinia, IV−V at Metaxata, IV at Argostoli, Agios−Nikolaos, Karavomylos, Skala, Agia−Eirini, Svoronata, Agia−Thekla, Poros, Sami, Spartia; on Ithaki, IV−V at Ithaki; on Lefkada, IV at Lefkada, Agios−Ilias, Poros, Syvros, Karya; on Kerkyra, IV at Magoulades, Ano−Korakiana, Kavvadades, Pagoi, Karousades, III at Kerkyra, Agios−Matthaios, Peroulades, Liapades, Spartylas, Sokraki, Velonades, Agioi−Deka; on Kalamos, III at Kalamos; on Paxoi, III at Paxoi.							
CSEM	Mw6.2. M_0=2.6±0.9×10^{18}Nm. Fault plane solution NP1:ϕ_S222°,δ50°,λ146°. NP2:ϕ_S335°, δ65°,λ45°. Principal Axes: T Plg49°,Azm196°; N Plg39°,Azm358°; P Plg9°,Azm96°.							
CSEM	Mw6.3. M_0=3.1?±2.0×10^{18}Nm. Fault plane solution. NP1:ϕ_S191°,δ23°,λ−7°. NP2:ϕ_S287°, δ87°,λ−113°. Principal axes: T Plg38°,Azm38°; N Plg23°,Azm289°; P Plg43°,Azm175°							
NEIC	Mw6.6(HRV), Me6.2(GS). Casualties.							
NEIC	Radiated energy from the USGS moment tensor solution: 4.1±0.8×10^{13}Nm/21							
NEIC	Moment tensor solution: s50, scale 10^{18}Nm; M_{rr}1.92; $M_{\theta\theta}$0.03; $M_{\phi\phi}$−1.95; $M_{r\theta}$3.26; $M_{r\phi}$−1.23; $M_{\theta\phi}$1.45. Depth 35km; Principal axes: T 4.37,Plg53°,Azm2°; N −0.27,Plg23°, Azm126°; P −4.10,Plg27°,Azm228°. Best double couple: $M_0$4.2×10^{18}Nm; NP1:ϕ_S0°,δ27°, λ148°. NP2:ϕ_S120°,δ76°,λ67°.							
NEIC	Mw 6.4 (GS), 6.3 (CSEM). Ms 6.3 (BRK). ML 6.1 (THE). Several people injured and considerable damage to buildings at Amalias, Gargalianoi, Kalamai, Kiparissia, Meligalas, Pirgos and other parts of western Peloponnisos. One house destroyed on Zakinthos. Felt in much of Greece as far as Crete. Also felt on Sicily. Complex event observed on broadband displacement seismograms.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c93; Mantle waves: s31,c70; Half duration: 4s9. Moment tensor: Scale 10^{18}Nm; M_{rr}2.23±.05; $M_{\theta\theta}$0.79±.05; $M_{\phi\phi}$−3.02±.05; $M_{r\theta}$6.72±.29; $M_{r\phi}$−2.96±.18; $M_{\theta\phi}$4.59±.05. Principal Axes: T 8.35,Plg46°,Azm352°; N 1.31,Plg30°,Azm118°; P −9.66,Plg30°,Azm227°. Best double couple: $M_0$9.0×10^{18}Nm, NP1:ϕ_S8°,δ31°,λ162°. NP2:ϕ_S113°,δ81°,λ60°.							
		(238) Ryūkyū Islands						
ISC	**XI**	**18 17 10 00**±1.7	**28.2N**±.13	**129.9E**±.15	**8**±14		**6**	**0-2**
JMA	XI	18 17 09 59.7±.2	28.23N±.02	129.95E±.02	15±2	3.2		¶97xi3015
JMA	Felt I=II J1							
		(377) Spain						
ISC	**XI**	**18 18 24 53.0**±.43	**42.93N**±.033	**7.15W**±.057	**9**		**54**	**1-10**
NEIC	XI	18 18 24 55.1	42.80N	7.19W	10			¶97xi3035
LIS	XI	18 18 24 56	42.82N	7.12W		3.6L		
MDD	XI	18 18 24 56.3	42.8N	7.2W	9	3.5b		
LDG	XI	18 18 24 56.5	43.0N	7.2W		3.7L		
NEIC	mbLg3.6(MDD)							
NEIC	Felt I=IV MSK at Baralla, Becerrea, Samos and Sarria; II MSK at Lugo.							

(233) Near south coast of Southern Honshū

ISC XI 18 18 28 26.9±.96 34.15N±.061 135.40E±.091 10±11 8 0-3
JMA XI 18 18 28 27.3±.0 34.14N±.00 135.38E±.00 9±1 3.3 ¶97xi3037
JMA Felt I=II J1

(381) Central Italy

ISC XI 19 02 02 49.5±.85 42.94N±.032 12.73E±.049 2±7.3 49 0-8
LDG XI 19 02 02 49.2 42.8N 13.1E 3.3L ¶97xi3107
ROM XI 19 02 02 49.4 42.9N 12.9E 5 3.3D
NEIC XI 19 02 02 50.7 42.98N 12.69E 10
STR XI 19 02 02 57.8 43.12N 12.23E 10 4.0L
NEIC M_L3.5(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(244) Taiwan

ISC XI 19 03 31 09.9±.29 23.85N±.033 121.71E±.039 60±4.9 3.9b 51 0-72
EIDC XI 19 03 31 04.1 23.9N 121.7E 0 3.9b ¶97xi3125
BJI XI 19 03 31 04.9 23.79N 121.80E 16 4.1L,4.5b
NEIC XI 19 03 31 07.1 23.80N 121.73E 33 4.4b
TAP XI 19 03 31 10.3 23.85N 121.71E 31 4.8L
JMA XI 19 03 31 11.3±.2 23.98N±.04 121.75E±.02 79±4 4.4
TAP Felt I=III J, II Hwalien, Chiawan, Ilan, I Tachien, Chengkung, Neicheng, Taichung

(381) Central Italy

ISC XI 19 07 41 44.4±.80 42.91N±.041 12.83E±.062 8±6.7 30 0-8
LDG XI 19 07 41 43.5 42.8N 13.2E 3.4L ¶97xi3162
ROM XI 19 07 41 44.3 42.9N 12.9E 10 3.3D
NEIC XI 19 07 41 45.8 43.01N 12.74E 10
NEIC M_L3.4(VIE). Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

(103) Colombia

ISC XI 19 10 34 17.7±.47 3.30N±.055 76.46W±.073 86±4.3 4.4b 56 0-154
BJI XI 19 10 34 16.7 2.64N 75.79W 79 ¶97xi3192
NEIC XI 19 10 34 17.0 3.23N 76.47W 86 4.5b
EIDC XI 19 10 34 20.6 3.3N 76.4W 103 4.1b,3.4s
NEIC Felt at Cali.

(76) Off coast of Central America

ISC XI 19 11 16 00±2.6 13.0N±.28 88.9W±.30 77 3.9b 22 1-148
EIDC XI 19 11 16 01.3 13.3N 88.6W 66 3.7b,3.5s ¶97xi3202
NEIC XI 19 11 16 02.1 13.24N 88.98W 77 4.1b
NEIC M_D3.5(SSS). Felt I=III MM, Poor solution.
NEIC Felt I=III MM at San Salvador.

(381) Central Italy

ISC XI 19 15 09 46.4±.74 42.92N±.027 12.94E±.039 4±6.3 75 0-8
ROM XI 19 15 09 45.6 42.9N 13.0E 5 3.5D ¶97xi3245
LDG XI 19 15 09 46.8 42.9N 13.3E 3.6L
NEIC XI 19 15 09 47.3 42.95N 12.90E 10
STR XI 19 15 09 53.9 43.12N 12.43E 10 4.1L
NEIC M_L4.0(VIE)
NEIC Felt I=V MCS in the epicentral area.

(40) California-Nevada border region

ISC XI 19 17 21 20.8±.64 37.66N±.065 118.94W±.066 7 11 0-2
NEIC XI 19 17 21 19.9 37.64N 118.94W 7 ¶97xi3269
NEIC M_D3.0(GM), M_L3.0(GS). Felt, After GM−P.
NEIC Felt at Mammoth Lakes, California.

(39) Central California

ISC XI 19 21 05 17.7±.44 37.60N±.038 122.03W±.052 14±4.3 30 0-5
NEIC XI 19 21 05 17.9 37.62N 122.02W 5 ¶97xi3312
NEIC M_D3.3(GM), M_L3.3(BRK). Felt, After GM−P.
NEIC ML 3.1 (GS). Felt at Fremont, Hayward and Pleasanton.

(228) Near east coast of Honshū

ISC XI 20 01 56 21.8±.47 40.97N±.030 142.54E±.045 52±4.2 4.8b,4.3s 197 1-155
JMA XI 20 01 56 20.6±.2 40.96N±.00 142.65E±.01 31±4 5.0 ¶97xi3367
BJI XI 20 01 56 21.3 40.99N 142.66E 64 4.7b,4.3s
MOS XI 20 01 56 21.7 41.1N 142.5E 49 5.2b,4.0s
HRVD XI 20 01 56 21.7±.2 40.50N±.02 143.22E±.03 90±1.2
NEIC XI 20 01 56 22.3 41.00N 142.52E 56 4.9b
EIDC XI 20 01 56 24.1 41.0N 142.5E 58 4.4b,4.3s
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s9,c11; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.83±.64; $M_{\theta\theta}$3.37±1.20; $M_{\phi\phi}$−2.54±1.37; $M_{r\theta}$4.51±.70; $M_{r\phi}$1.49±.90; $M_{\theta\phi}$−3.41±1.13. Principal Axes: T 6.76,Plg27°,Azm16°; N −0.35, Plg43°,Azm257°; P −6.41,Plg35°,Azm127°. Best double couple: $M_0$6.6×10^{16}Nm, NP1: ϕ_S158°,δ43°,λ−7°. NP2:ϕ_S253°,δ85°,λ−133°.
NEIC Mw5.2(HRV). Felt I=III MM.
NEIC Felt I=II J1 in the Urakawa area. Also felt II J1 in eastern Aomori and northern Iwate Prefectures, Honshu.

(381) Central Italy

ISC XI 20 03 58 55.6±.66 42.85N±.031 12.96E±.043 7±5.6 65 0-8
NEIC XI 20 03 58 54.8 42.76N 12.99E 10 ¶97xi3390
ROM XI 20 03 58 55.0 42.9N 12.9E 5 3.5D
LDG XI 20 03 58 57.6 42.7N 13.0E 3.6L
STR XI 20 03 59 02.8 43.12N 12.70E 10 4.0L
NEIC M_L3.9(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(383) Northwestern Balkan region

ISC XI 20 20 26 28±7.8 45.9N±.12 16.4E±.63 1 6 0-1
LJU XI 20 20 26 29.7 45.9N 16.3E 1 ¶97xi3528
ZAG Felt I=IV MSK Blaskovec, Donga Zelina

(115) Near coast of Peru

ISC XI 21 07 03 31.8±.92 15.61S±.044 74.41W±.057 56±9.0 5.0b,4.5s 132 3-173
BJI XI 21 07 03 29.9 15.54S 74.05W 36 ¶97xi3613
NEIC XI 21 07 03 30.7 15.61S 74.46W 47 5.1b,4.5s
EIDC XI 21 07 03 32.7 15.7S 74.5W 51 4.5b,4.5s
HRVD XI 21 07 03 39.3±.8 15.64S±.07 74.77W±.06 51±4.7
NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c34; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.08±.06; $M_{\theta\theta}$−0.47±.08; $M_{\phi\phi}$0.40±.11; $M_{r\theta}$0.55±.10; $M_{r\phi}$−0.23±.09; $M_{\theta\phi}$1.37±.06. Principal Axes: T 1.41,Plg6°,Azm307°; N 0.25, Plg71°,Azm56°; P −1.66,Plg18°,Azm215°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S353°,δ73°,λ−171°. NP2:ϕ_S260°,δ82°,λ−18°.
BOG Felt at Cali and on the Pacific Coast of Colombia

(315) India-Bangladesh border region

ISC XI 21 11 23 03±1.2 22.22N±.024 92.68E±.021 30±8.9 5.9b,5.7s 621 4-166
BJI XI 21 11 23 05.4 22.40N 92.79E 38 6.1b,5.9s ¶97xi3641
MOS XI 21 11 23 06.2 22.3N 92.7E 49 6.5b,5.6s
NEIC XI 21 11 23 06.3 22.21N 92.70E 54 5.9b
EIDC XI 21 11 23 08.8 22.2N 92.7E 62 5.6b
NDI XI 21 11 23 09 22.0N 92.0E 6.0b
HRVD XI 21 11 23 09.1±.2 22.21N±.01 92.70E±.02 54
NEIC Mw6.1(GS), Me5.5(GS). Casualties.
NEIC Radiated energy from the USGS moment tensor solution: 4.4±1.5×10^{12}Nm/7
NEIC Moment tensor solution: s19, scale 10^{18}Nm; M_{rr}0.24; $M_{\theta\theta}$−0.65; $M_{\phi\phi}$0.41; $M_{r\theta}$−1.20; $M_{r\phi}$−0.09; $M_{\theta\phi}$0.67. Depth 50km; Principal axes: T 1.33,Plg42°,Azm140°; N 0.28,Plg32°, Azm264°; P −1.61,Plg31°,Azm17°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S161°,δ33°, λ169°. NP2:ϕ_S260°,δ84°,λ57°.
NEIC Mw 6.1 (HRV). Twenty-three people killed, 200 injured and a five-story building collapsed at Chittagong, Bangladesh. Houses damaged at Alikadam, Bandarban, Lama and Nakhyaungcharipara, Bangladesh. Felt in much of Bangladesh as far north as Rangpur and Rajshahi. Two events about 1.75 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c74; Mantle waves: s23,c36; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}0.32±.02; $M_{\theta\theta}$−0.62±.02; $M_{\phi\phi}$0.29±.02; $M_{r\theta}$−1.20±.02; $M_{r\phi}$−0.15±.02; $M_{\theta\phi}$0.84±.01. Principal Axes: T 1.47,Plg41°,Azm139°; N 0.16,Plg36°,Azm268°; P −1.64,Plg28°,Azm21°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S163°,δ37°,λ168°. NP2:ϕ_S263°,δ83°,λ54°.

(381) Central Italy

ISC XI 21 20 39 11.7±.69 42.98N±.038 12.78E±.058 8±6.0 29 0-7
ROM XI 21 20 39 11.2 43.0N 12.9E 6 3.0D ¶97xi3737
NEIC XI 21 20 39 11.9 43.00N 12.73E 10
LDG XI 21 20 39 13.5 43.1N 12.9E 3.0L
NEIC M_L3.0(VIE)
NEIC Felt I=III MCS in the epicentral area.

(315) India-Bangladesh border region

ISC XI 22 02 34 43.9±.87 22.20N±.041 92.66E±.037 53±8.2 4.8b,3.9s 134 4-157
BJI XI 22 02 34 43.1 22.25N 92.64E 46 4.5L,4.6b ¶97xi3786
NDI XI 22 02 34 43.7 22.1N 92.6E 53 4.8b
NEIC XI 22 02 34 43.7 22.15N 92.61E 53 4.8b
EIDC XI 22 02 34 45.6 22.2N 92.7E 52 4.4b,3.7s
BJI Ms4.1
NEIC Felt at Bandarban, Chittagong, Cox's Bazar and Rangamati, Bangladesh.

(40) California-Nevada border region

ISC XI 22 12 06 57.5±.21 37.63N±.021 118.96W±.026 8 4.1b,3.6s 103 0-117
EIDC XI 22 12 06 55.8 37.2N 119.1W 0 4.0b,3.7s ¶97xi3869
NEIC XI 22 12 06 55.9 37.63N 118.92W 8 4.4b
NEIC M_L4.6(BRK), Mw4.5(BRK). Felt, After GM−P.
NEIC ML 4.5 (GM). Felt at Mammoth Lakes and Big Creek, California.

(135) Near coast of Central Chile

ISC XI 22 13 41 09.5±.77 28.89S±.039 71.34W±.069 43±7.9 5.0b,4.4s 122 4-175
NEIC XI 22 13 41 08.3 28.85S 71.38W 33 5.2b,4.4s ¶97xi3885
BJI XI 22 13 41 09.1 28.98S 71.95W 25
EIDC XI 22 13 41 09.4 28.8S 71.2W 29 4.8b,4.4s
NEIC Felt I=III MM at Copiapo and Tierra Amarilla.

(40) California-Nevada border region

ISC XI 22 17 20 36.9±.19 37.64N±.020 118.99W±.024 7 4.5b,4.3s 124 0-150
BJI XI 22 17 20 35.1 37.60N 118.90W 7 5.6b,5.2s ¶97xi3918
NEIC XI 22 17 20 35.1 37.64N 118.93W 7 4.7b,4.3s
EIDC XI 22 17 20 37.1 37.5N 118.8W 0 4.3b,4.3s
NEIC M_L4.9(BRK), Mw4.8(BRK). Felt, After GM−P.
NEIC ML 4.8 (GM). Felt at Mammoth Lakes, California. Mo=2.1×10^{16}Nm (BRK).

(40) California-Nevada border region

ISC XI 22 18 11 01.0±.20 37.63N±.021 118.99W±.025 8 4.0b,3.7s 100 0-150
NEIC XI 22 18 10 59.4 37.64N 118.95W 8 4.2b,3.7s ¶97xi3936
EIDC XI 22 18 11 01.6 37.5N 118.6W 0 4.0b,3.9s
NEIC M_L4.8(BRK), Mw4.5(BRK). Felt, After GM−P.
NEIC ML 4.7 (GM). Felt at Mammoth Lakes, California.

(223) Eastern Sea of Japan

ISC XI 23 03 50 58±1.1 39.93N±.019 138.87E±.025 7±6.4 5.7b,5.5s 564 1-161
EIDC XI 23 03 50 58.0 40.0N 138.9E 0 5.3b,5.1L ¶97xi4018
BJI XI 23 03 50 58.8 39.99N 139.11E 30 5.3b,5.9s
JMA XI 23 03 50 59.1±.1 39.97N±.01 138.84E±.02 41±4 5.6
NEIC XI 23 03 51 00.4 39.96N 138.83E 23 5.8b,5.2s
MOS XI 23 03 51 02.0 40.0N 138.8E 33 6.2b,5.6s
HRVD XI 23 03 51 04.5±.2 40.04N±.03 138.58E±.03 15
JMA Nodal plane solution: N65, Score 94%. NP1:ϕ_S63°,δ37°,λ167°. NP2:ϕ_S164°,δ81°,λ54°. Principle axes: T Plg42°,Azm40°; N Plg36°,Azm171°; P Plg27°,Azm282°.
NEIC Mw5.6(GS), Me5.5(GS). Felt I=VI MM.
NEIC Radiated energy from the USGS moment tensor solution: 3.8±0.6×10^{12}Nm/13
NEIC Mw 5.6 (HRV). Felt I=IV J1 in parts of Akita and Iwate Prefectures, Honshu. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s36, scale 10^{17}Nm; M_{rr}2.72; $M_{\theta\theta}$−0.90; $M_{\phi\phi}$−1.82; $M_{r\theta}$−0.23; $M_{r\phi}$0.25; $M_{\theta\phi}$−1.34. Depth 15km; Principal axes: T 2.77,Plg83°,Azm222°; N 0.01,Plg7°, Azm35°; P −2.78,Plg1°,Azm125°. Best double couple: $M_0$2.8×10^{17}Nm; NP1:ϕ_S222°,δ45°, λ100°. NP2:ϕ_S29°,δ46°,λ80°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c52; Mantle waves: s9,c12; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}3.16±.05; $M_{\theta\theta}$−0.41±.07; $M_{\phi\phi}$−2.75±.09; $M_{r\theta}$0.05±.19; $M_{r\phi}$0.73±.25; $M_{\theta\phi}$−0.88±.06. Principal Axes: T 3.25,Plg83°,Azm262°; N −0.12,Plg3°,Azm18°; P −3.12,Plg6°,Azm108°. Best double couple: $M_0$3.2×10^{17}Nm, NP1:ϕ_S202°,δ39°,λ95°. NP2:ϕ_S15°,δ52°,λ86°.

(274) Southern Sumatera

ISC XI 23 08 35 48.3±.90 5.35S±.042 102.59E±.047 39±7.9 5.1b,4.6s 146 2-152
BJI XI 23 08 35 46.4 5.50S 102.52E 34 5.3b,4.9s ¶97xi4079
NEIC XI 23 08 35 47.7 5.41S 102.52E 33 5.1b,4.8s
MOS XI 23 08 35 47.8 5.3S 102.5E 33 5.5b
KLM XI 23 08 35 48 5.4S 102.5E 33 4.5L
EIDC XI 23 08 35 49.4 5.4S 102.4E 34 4.7b,4.4s
NEIC Felt I=II MM at Kepahiang and Liwa.
KLM Mb5.1

(238) Ryūkyū Islands

ISC XI 23 12 48 07.9±.52 28.15N±.049 129.60E±.076 48±6.0 3.9b 30 0-78
JMA XI 23 12 48 08.4±.0 28.21N±.01 129.50E±.01 37±1 3.9 ¶97xi4120
NEIC XI 23 12 48 10.5 28.15N 129.18E 65 3.8b
BJI XI 23 12 48 11.7 27.97N 129.34E 75 4.4b,4.2s
EIDC XI 23 12 48 12.3 28.1N 129.1E 60 3.5b,3.9L
JMA Felt I=II J1
NEIC Less reliable solution.

(243) Taiwan region

ISC XI 23 17 23 46.4±.50 24.04N±.029 122.94E±.041 40±5.4 4.7b,4.3s 101 0-168
JMA XI 23 17 23 45.6±.4 23.97N±.03 122.85E±.02 39±4 4.7 ¶97xi4163
NEIC XI 23 17 23 45.6 24.07N 122.97E 33 4.8b
BJI XI 23 17 23 46.3 24.13N 123.20E 40 4.5L,4.6b
EIDC XI 23 17 23 50.6 24.2N 122.9E 59 4.2b,4.3s
NEIC Felt I=II J1 on Yonaguni and I J1 on Iriomote-shima, Ryukyu Islands.
BJI Ms4.4

(163) Cook Strait, New Zealand

ISC XI 24 02 23 55.8±.29 40.49S±.037 174.65E±.070 72±5.6 4.4b 66 0-157
NEIC XI 24 02 23 56.0 40.47S 174.61E 70 4.6b ¶97xi4249
WEL XI 24 02 23 56.5 40.49S 174.65E 74 5.2L
EIDC XI 24 02 24 15.7 40.3S 174.3E 230 3.9b
NEIC Felt at Palmerston North, Wanganui and Wellington.
WEL Felt Lower North Island, maximum intensity I=V MM near Foxton.

(244) Taiwan

ISC XI 24 03 47 06.7±.37 23.78N±.034 121.79E±.047 42±6.9 3.7b 42 0-72
EIDC XI 24 03 47 02.4 23.8N 121.9E 0 3.7b ¶97xi4258
BJI XI 24 03 47 04.7 23.78N 121.85E 32 3.9L,4.0b
NEIC XI 24 03 47 05.2 23.84N 121.99E 33

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
TAP	XI	24 03 47 05.8	23.82N	121.72E	13	4.6L		
JMA	XI	24 03 47 06.6±.4	23.82N±.04	121.77E±.03	75	3.8		
NEIC	Single network solution.							
TAP	Felt I=III J, II Hwalien, Chiawan, I Sun Moon Lake							
	(405) Azores							
ISC	**XI**	**24 19 08 42.9**±.84	**38.98N**±.073	**28.20W**±.070	**19**±6.9	**4.2b**,3.8s	**20**	**0-66**
NEIC	XI	24 19 08 41.6	38.98N	28.07W	10	4.4b		¶97xi4365
ADH	XI	24 19 08 42.3	39.14N	28.36W		3.4D		
EIDC	XI	24 19 08 43.1	39.1N	27.9W	0	4.2b,3.8s		
NEIC	Less reliable solution.							
ADH	Felt I=II−III MM on Graciosa							
	(221) Kuril Islands							
ISC	**XI**	**24 23 41 50.4**±.50	**43.79N**±.062	**146.14E**±.078	**107**±4.4	**4.1b**	**51**	**0-83**
SKHL	XI	24 23 41 50.0	43.7N±.11	146.3E±.12	94±2			¶97xi4409
NEIC	XI	24 23 41 50.1	43.84N	145.99E	105	4.2b		
BJI	XI	24 23 41 50.8	43.74N	146.05E	112	4.5b		
JMA	XI	24 23 41 51.5±.2	43.67N±.01	146.23E±.02	90±2	4.2		
EIDC	XI	24 23 41 53.8	43.9N	145.9E	125	3.7b		
SKHL	K10 Felt I=IV MSK at Malokurilskoe; I=II at Juzhno-Kurilsk							
NEIC	Felt I=I J in the Nemuro area.							
	(392) Greece-Albania border region							
ISC	**XI**	**25 06 17 50.4**±.44	**40.27N**±.027	**20.10E**±.026	**22**±4.8	**4.1b**	**109**	**0-123**
PDG	XI	25 06 17 46.9	39.9N	19.6E	14	4.0L,3.9D		¶97xi4457
NEIC	XI	25 06 17 47.6	40.33N	20.25E	10	4.0b		
EIDC	XI	25 06 17 47.8	40.3N	20.3E	0	4.1b,4.1L		
TIR	XI	25 06 17 49.0	40.28N	20.29E	0	4.0L		
ATH	XI	25 06 17 50.3	40.22N	20.21E	5	4.4L		
THE	XI	25 06 17 51.4	40.3N	20.1E	11	3.7L		
TIR	Felt I=IV−V MSK Department of Permeti, II−IV Gjirokastra, Tepelena							
	(135) Near coast of Central Chile							
ISC	**XI**	**25 12 13 42.6**±.88	**30.88S**±.060	**71.3W**±.10	**80**±10	**4.1b**	**35**	**2-84**
NEIC	XI	25 12 13 38.2	30.57S	71.41W	33	4.5b		¶97xi4506
GUC	XI	25 12 13 41.4	31.08S	71.86W	11	4.8D		
EIDC	XI	25 12 13 45.1	30.6S	71.2W	77	4.0b,4.0L		
NEIC	Felt I=V MM at Combarbala, Hurtado, Monte Patria, Ovalle and Punitaqui; IV MM at Andacollo, Canela, Coquimbo, Illapel, La Serena, Los Vilos, Salamanca and Vicuna; III MM at La Higuera and Paihuano; II MM at Papudo.							
	(265) Minahassa Peninsula (Celebes)							
ISC	**XI**	**25 12 14 36.1**±.49	**1.21N**±.020	**122.56E**±.024	**46**±4.7	**5.8b,6.7s**	**563**	**2-177**
EIDC	XI	25 12 14 31.1	1.1N	122.5E	0	5.8b,6.8s		¶97xi4507
BJI	XI	25 12 14 33.3	1.21N	122.59E	23	5.9b,6.6s		
NEIC	XI	25 12 14 33.6	1.24N	122.54E	24	6.1b,6.8s		
KLM	XI	25 12 14 34	1.2N	122.5E	24	5.9L		
MOS	XI	25 12 14 35.5	1.3N	122.5E	33	6.5b,6.6s		
HRVD	XI	25 12 14 42.9±.1	1.37N±.01	122.71E±.01	29±.5			
NEIC	Mw7.0(GS), Me6.9(GS). Damage I=VI MM.							
NEIC	Radiated energy from the P−wave first−motion solution: 4.7±0.8×10^{14}Nm/12							
NEIC	Mw 7.0 (HRV). Ms 6.7 (BRK). At least 90 buildings damaged I=VI MM in the Gorontalo area. Felt III MM at Manado. Mo=2.4×10^{19}Nm (PPT).							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S280°,δ75°,λ120°. NP2:ϕ_S34°,δ33°,λ28°. Principal axes: T Plg51°,Azm224°; P Plg24°,Azm347°. Depth from synthetics of broadband displacement seismograms.							
NEIC	Moment tensor solution: s19, scale 10^{19}Nm; M_{rr}1.73; $M_{\theta\theta}$−1.48; $M_{\phi\phi}$−0.26; $M_{r\theta}$−3.12; $M_{r\phi}$−0.27; $M_{\theta\phi}$−0.96. Depth 18km; Principal axes: T 3.65,Plg58°,Azm188°; N 0.00,Plg12°, Azm78°; P −3.65,Plg30°,Azm342°. Best double couple: $M_0$3.7×10^{19}Nm; NP1:ϕ_S41°,δ19°, λ51°. NP2:ϕ_S261°,δ76°,λ102°.							
KLM	Mb6.1							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c108; Mantle waves: s42,c104; Half duration: 8s3. Moment tensor: Scale 10^{19}Nm; M_{rr}2.62±.03; $M_{\theta\theta}$−2.82±.02; $M_{\phi\phi}$0.20±.02; $M_{r\theta}$−3.08±.09; $M_{r\phi}$0.23±.06; $M_{\theta\phi}$0.33±.02. Principal Axes: T 4.01,Plg66°,Azm183°; N 0.23,Plg1°,Azm275°; P −4.24,Plg24°,Azm6°. Best double couple: $M_0$4.1×10^{19}Nm, NP1:ϕ_S98°,δ21°,λ93°. NP2:ϕ_S275°,δ69°,λ89°.							
	(381) Central Italy							
ISC	**XI**	**25 13 47 13.9**±.66	**42.97N**±.031	**12.79E**±.049	**7**±5.4	4.0b	**51**	**0-59**
LDG	XI	25 13 47 12.7	42.8N	13.1E		3.6L		¶97xi4528
ROM	XI	25 13 47 13.7	43.0N	12.8E	7	3.5D		
NEIC	XI	25 13 47 14.1	42.99N	12.74E	10			
EIDC	XI	25 13 47 15.6	43.0N	13.2E	0	3.9b,3.7L		
STR	XI	25 13 47 24.3	43.35N	12.16E	10	3.9L		
NEIC	$M_{L3.8}$(VIE)							
NEIC	Felt I=V MCS in the epicentral area.							
	(98) Trinidad							
ISC	**XI**	**25 18 11 46**±1.1	**10.7N**±.15	**61.4W**±.11	**28**±16		**7**	**0-2**
NEIC	XI	25 18 11 46.1	10.63N	61.42W	33			¶97xi4557
TRN	XI	25 18 11 46.7	10.7N	61.4W	27	3.2D		
NEIC	Single network solution.							
TRN	Felt in Tunapuna I=III MM and St. Augustine I=II							
	(238) Ryūkyū Islands							
ISC	**XI**	**25 18 23 44.2**±.69	**26.34N**±.069	**127.72E**±.093	**22**±6.9	**3.6b**	**12**	**0-73**
EIDC	XI	25 18 23 42.5	26.5N	127.6E	0	3.6b		¶97xi4559
JMA	XI	25 18 23 44.5±.1	26.38N±.01	127.70E±.01	17	3.8		
JMA	Felt I=II J1							
	(13) Kodiak Island region							
ISC	**XI**	**25 18 46 04.7**±.48	**57.39N**±.040	**151.81W**±.049	**46**±6.1	**4.1b**	**118**	**1-85**
BJI	XI	25 18 45 57.5	57.11N	151.81W	14	4.3b		¶97xi4562
NEIC	XI	25 18 46 03.3	57.22N	151.54W	10	4.4b		
EIDC	XI	25 18 46 08.7	57.7N	152.0W	47	3.7b,4.4L		
NEIC	M_L4.7(AEIC), M_L4.6(PMR). Felt, After AEIC.							
NEIC	Felt at Kodiak.							
	(238) Ryūkyū Islands							
ISC	**XI**	**25 20 13 34**±1.1	**26.4N**±.12	**127.7E**±.12	**18**±26		**6**	**0-2**
JMA	XI	25 20 13 34.7±.1	26.39N±.00	127.70E±.01	14	3.5		¶97xi4568
JMA	Felt I=II J1							
	(238) Ryūkyū Islands							
ISC	**XI**	**25 20 32 46**±2.4	**26.4N**±.23	**127.7E**±.14	**10**±38		**7**	**0-3**
JMA	XI	25 20 32 46.8±.1	26.39N±.01	127.69E±.01	14	3.6		¶97xi4571
JMA	Felt I=II J1							
	(18) Southern Yukon Territory							
ISC	**XI**	**25 22 28 10.6**±.21	**64.27N**±.029	**133.17W**±.051	**0**	**4.7b,4.2s**	**113**	**3-88**
BJI	XI	25 22 28 08.9	64.08N	132.79W	7	4.8b,5.1s		¶97xi4589
NEIC	XI	25 22 28 12.0	64.22N	132.92W	0	4.9b		
PGC	XI	25 22 28 12.1	64.2N	132.9W	0	5.1L		
EIDC	XI	25 22 28 16.8	64.2N	133.3W	28	4.1b,3.9s		
NEIC	After PGC.							
PGC	Wernecke Mountains, Yukon Territory. Felt strongly by a trapper at Square Lake, about 60km SSW of the epicentre. Also felt mildly at Mayo, Yukon Territory							
	(238) Ryūkyū Islands							
ISC	**XI**	**25 23 27 28**±1.1	**26.42N**±.078	**127.7E**±.12	**5**±15		**7**	**0-3**
JMA	XI	25 23 27 28.1±.1	26.39N±.00	127.72E±.01	13	3.6		¶97xi4595
JMA	Felt I=II J1							
	(29) Washington State							
ISC	**XI**	**26 00 05 34.4**±.26	**47.83N**±.022	**123.11W**±.041	**51**±7.1	3.3b	**92**	**0-24**
PGC	XI	26 00 05 34.8	47.8N	123.1W	47	3.4L		¶97xi4600
NEIC	XI	26 00 05 34.9	47.79N	123.07W	47			
EIDC	XI	26 00 05 48.0	47.9N	121.6W	123	3.0b		
PGC	Olympic Peninsula, Washington. Felt mildly in Victoria, British Columbia							
NEIC	M_D3.7(SEA). Felt, After SEA.							
NEIC	Felt at Victoria, British Columbia, Canada.							
	(43) Southern California							
NEIC	**XI**	**26 05 14 53.0**	**34.01N**	**117.22W**	**11**			**1-1**
NEIC	M_L2.3(PAS). Felt, After PAS.							¶97xi4641
NEIC	Felt at Riverside.							
	(160) Off east coast of North Island, N.Z.							
ISC	**XI**	**26 11 34 12.2**±.97	**39.89S**±.062	**177.1E**±.13	**61**±19		**21**	**0-5**
WEL	XI	26 11 34 13.9	39.88S	177.01E	38	3.8L		¶97xi4678
WEL	Felt I=IV MM Patoka							
	(243) Taiwan region							
ISC	**XI**	**26 16 54 09.8**±.54	**24.38N**±.038	**122.04E**±.046	**10**		**24**	**0-3**
JMA	XI	26 16 54 09.4±.5	25.10N±.03	122.29E±.03	10	3.4		¶97xi4721
TAP	XI	26 16 54 10.5	24.39N	121.98E	14	4.0L		
BJI	XI	26 16 54 19.9	25.26N	121.15E	10	3.3L		
TAP	Felt I=III J							
	(244) Taiwan							
ISC	**XI**	**26 17 57 10.6**±.69	**24.31N**±.054	**120.85E**±.079	**32**±7.3		**19**	**0-2**
TAP	XI	26 17 57 10.1	24.30N	120.88E	30	3.8L		¶97xi4727
TAP	Felt I=II J Taichien, I Taichung							
	(383) Northwestern Balkan region							
ISC	**XI**	**26 19 15 17**±1.5	**44.01N**±.024	**16.58E**±.029	**7**±12	**3.8b**	**132**	**1-89**
PDG	XI	26 19 15 15.2	44.0N	16.2E	14	4.1L,3.9D		¶97xi4735
NEIC	XI	26 19 15 16.6	43.99N	16.54E	10	4.2b		
ROM	XI	26 19 15 17.6	44.0N	16.9E	10	3.5D		
STR	XI	26 19 15 17.7	44.10N	16.80E	6	3.9L		
LDG	XI	26 19 15 17.7	44.1N	16.8E		3.9L		
THE	XI	26 19 15 19.3	43.9N	16.3E	15	4.1L		
EIDC	XI	26 19 15 23.9	44.2N	16.8E	47	3.5b,3.8L		
NEIC	$M_{L3.7}$(VIE).							
ZAG	Felt Sinj (after HVAR)							
	(244) Taiwan							
ISC	**XI**	**26 23 58 56**±1.5	**24.43N**±.043	**121.9E**±.14	**10**±7.4		**18**	**0-2**
TAP	XI	26 23 58 56.3	24.46N	121.85E	13	3.8L		¶97xi4762
TAP	Felt I=III J Ilan							
	(274) Southern Sumatera							
ISC	**XI**	**27 00 20 27**±1.8	**4.55S**±.050	**101.80E**±.057	**19**±13	**5.0b,4.7s**	**151**	**1-157**
DJA	XI	27 00 20 23.1±.92	5.2S	101.0E	77±3.6	5.8L,5.3b		¶97xi4766
KLM	XI	27 00 20 29	4.5S	101.8E	33	4.4L		
MOS	XI	27 00 20 29.1	4.6S	101.8E	33	5.6b		
BJI	XI	27 00 20 29.4	4.88S	101.98E	53	5.1b,4.9s		
NEIC	XI	27 00 20 29.4	4.54S	101.83E	33	5.0b,4.7s		
EIDC	XI	27 00 20 31.2	4.6S	101.8E	36	4.7b,4.7s		
DJA	Error ellipse is semi−major=38.3km semi−minor=3.7km azimuth=44							
KLM	Mb5.0							
NEIC	Felt I=II MM at Bengkulu.							
	(381) Central Italy							
ISC	**XI**	**27 07 02 35.0**±.61	**42.97N**±.024	**12.91E**±.033	**5**±5.0	**4.1b**	**109**	**0-68**
ROM	XI	27 07 02 34.4	42.9N	12.9E	4	3.8D		¶97xi4818
EIDC	XI	27 07 02 34.4	42.9N	12.6E	0	4.1b,3.8L		
NEIC	XI	27 07 02 35.5	42.97N	12.87E	10	3.6b		
LDG	XI	27 07 02 36.1	42.8N	13.0E		3.8L		
STR	XI	27 07 02 45.8	43.42N	12.33E	10	4.0L		
NEIC	ML 3.4 (FUR). Felt I=V MCS in the epicentral area.							
	(337) Eastern Caucasus							
ISC	**XI**	**27 17 34 30**±1.1	**41.86N**±.027	**45.37E**±.027	**30**±8.4	**5.1b,5.2s**	**399**	**2-118**
EIDC	XI	27 17 34 26.0	41.7N	45.2E	0	4.8b,5.1s		¶97xi4908
MOS	XI	27 17 34 28.1	42.0N	45.3E	10	5.7b,5.0s		
NEIC	XI	27 17 34 30.3	41.85N	45.33E	38	5.3b,5.2s		
BJI	XI	27 17 34 30.8	42.24N	45.43E	33	5.1b,5.4s		
HRVD	XI	27 17 34 36.9±.7	42.32N±.05	45.19E±.11	42±6.1			
MOS	Felt I=III MSK at Vladikavkaz; I=II−III at Nalchik,Pyatigorsk;I=II at Dagestan, Stavropol.							
NEIC	Mw5.3(HRV), Mw5.0(OBN). Damage I=VI MM.							
NEIC	Some buildings damaged at Tbilisi, Georgia. Felt I=VI MM at Khashmi and V MM at Tbilisi, Georgia. Felt III MM at Nalchik, Pyatigorsk and Vladikavkaz; II MM at Dagestan and Stavropol, Russia. Also felt at Yerevan, Armenia. Mo=3.5×10^{16}Nm (OBN).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c24; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.30±.69; $M_{\theta\theta}$−8.57±.75; $M_{\phi\phi}$1.27±1.15; $M_{r\theta}$−2.29±1.63; $M_{r\phi}$−3.08±1.32; $M_{\theta\phi}$−1.18±.83. Principal Axes: T 8.76,Plg68°,Azm105°; N 0.39,Plg20°,Azm257°; P −9.15,Plg10°,Azm351°. Best double couple: $M_0$9.0×10^{16}Nm, NP1: ϕ_S103°,δ39°,λ122°. NP2:ϕ_S244°,δ58°,λ66°.							
	(663) Sea of Okhotsk							
ISC	**XI**	**28 06 10 47.5**±.24	**47.11N**±.028	**145.60E**±.035	**391**±2.9	**5.2b**	**536**	**2-153**
BJI	XI	28 06 10 46.8	47.25N	145.59E	394	5.6b		¶97xi5024
JMA	XI	28 06 10 46.9±.3	46.73N±.03	145.86E±.04	438±3	5.6		
SKHL	XI	28 06 10 47.0	47.0N±.25	145.7E±.35	403±7			
NEIC	XI	28 06 10 47.5	47.14N	145.60E	394	5.4b		
MOS	XI	28 06 10 48.6	47.1N	145.7E	407	5.7b		
EIDC	XI	28 06 10 49.6	47.3N	145.5E	402	4.6b		
HRVD	XI	28 06 10 50.8±.3	46.96N±.03	145.81E±.05	401±1.7			
NEIC	Mw5.5(HRV).							
NEIC	Felt I=II J1 in southeastern Hokkaido. Also felt II J1 in northern Aomori Prefecture, Honshu.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c58; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.17±.05; $M_{\theta\theta}$0.61±.08; $M_{\phi\phi}$0.56±.08; $M_{r\theta}$−0.81±.08; $M_{r\phi}$−1.72±.07; $M_{\theta\phi}$0.22±.06. Principal Axes: T 1.92,Plg31°,Azm121°; N 0.42, Plg4°,Azm29°; P −2.35,Plg58°,Azm292°. Best double couple: $M_0$2.1×10^{17}Nm, NP1:ϕ_S225°, δ14°,λ−73°. NP2:ϕ_S28°,δ77°,λ−94°.							
	(45) California-Mexico border region							
ISC	**XI**	**28 14 51 37**±2.0	**32.3N**±.12	**115.29W**±.058	**4**±8.8		**26**	**0-6**
NEIC	XI	28 14 51 37.9	32.27N	115.30W	6			¶97xi5103
ECX	XI	28 14 51 39.3	32.37N	115.29W	13	3.8L		
NEIC	M_L3.7(PAS). Felt, After PAS.							
NEIC	Felt in the Mexicali Valley, Baja California.							
ECX	Felt Mexicali Valley							
	(227) Honshū							
ISC	**XI**	**29 00 39 50.6**±.51	**36.02N**±.049	**139.86E**±.079	**57**±4.6	**4.6b**	**41**	**0-148**
JMA	XI	29 00 39 50.7±.1	36.04N±.01	139.91E±.01	50±2	4.3		¶97xi5166
MOS	XI	29 00 39 52.2	36.5N	139.9E	58	5.0b		
BJI	XI	29 00 39 53.0	35.88N	139.60E	88	5.0b		
NEIC	XI	29 00 39 53.1	36.00N	139.63E	80	4.5b		
EIDC	XI	29 00 39 54.1	35.8N	139.9E	82	4.4b		
JMA	Nodal plane solution: N78, Score 100%. NP1:ϕ_S245°,δ19°,λ113°. NP2:ϕ_S42°,δ72°,λ83°. Principle axes: T Plg62°,Azm301°; N Plg7°,Azm44°; P Plg27°,Azm138°.							

NEIC Felt I=V MM, Less reliable solution.
NEIC Felt I=III J1 in southern Ibaraki, eastern Saitama and southern Tochigi Prefectures. Felt II J in much of Gumma Prefecture.

(135) Near coast of Central Chile

ISC	**XI**	**29 01 41 24.0**±.64	**31.17S**±.047	**71.21W**±.077	**86**±7.4	**4.5b**		**62**	**2-159**
GUC	XI	29 01 41 11.4	30.52S	71.78W	7	4.8D			**¶97xi5170**
BJI	XI	29 01 41 22.0	31.10S	71.40W	61				
NEIC	XI	29 01 41 22.0	31.05S	71.36W	61	4.6b			
EIDC	XI	29 01 41 23.3	31.1S	71.2W	64	4.4b,3.9s			

NEIC Felt I=V MM at Punitaqui; IV MM at Ovalle; III MM at Coquimbo, La Serena and Vicuna; II MM at Illapel, La Higuera and Salamanca.

(381) Central Italy

ISC	**XI**	**29 03 00 12.7**±.56	**42.93N**±.039	**12.95E**±.096	**7**			**16**	**0-4**
ROM	XI	29 03 00 12.0	42.9N	12.9E	7	3.4D			**¶97xi5182**
NEIC	XI	29 03 00 13.2	42.94N	12.93E	10				

NEIC Felt I=IV MCS in the epicentral area.

(266) Molucca Passage

ISC	**XI**	**29 03 42 02.7**±.62	**2.22N**±.025	**126.66E**±.035	**51**±5.8	**5.4b,5.3s**		**255**	**2-166**
EIDC	XI	29 03 41 57.3	2.2N	126.6E	0	5.4b,5.5L			**¶97xi5190**
NEIC	XI	29 03 42 01.6	2.21N	126.65E	43	5.5b,5.4s			
BJI	XI	29 03 42 01.9	2.26N	126.66E	47	5.4b,5.3s			
MOS	XI	29 03 42 02.9	2.4N	126.6E	44	5.9b,5.2s			
HRVD	XI	29 03 42 08.9±.2	2.09N±.03	126.49E±.03	34±2.3				

NEIC Mw5.8(HRV)
NEIC Felt I=III MM at Tondano and II MM at Bitung, Sulawesi.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c73; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; M_{rr}4.20±.13; $M_{\theta\theta}$−0.20±.17; $M_{\phi\phi}$−3.99±.22; $M_{r\theta}$0.84±.29; $M_{r\phi}$−4.31±.35; $M_{\theta\phi}$−1.19±.15. Principal Axes: T 6.29,Plg64°,Azm65°; N −0.34, Plg13°,Azm183°; P −5.95,Plg22°,Azm278°. Best double couple: $M_0$6.1×10^{17}Nm, NP1: ϕ_S32°,δ26°,λ122°. NP2:ϕ_S178°,δ68°,λ76°.

(2) Southern Alaska

ISC	**XI**	**29 08 59 47.7**±.59	**60.05N**±.025	**147.70W**±.037	**28**±5.9	**4.5b,**3.8s		**122**	**0-148**
EIDC	XI	29 08 59 45.7	60.0N	148.1W	0	4.3b,3.9L			**¶97xi5228**
BJI	XI	29 08 59 45.8	59.76N	148.10W	29	4.5b			
NEIC	XI	29 08 59 49.4	60.09N	147.66W	20	4.6b			

NEIC M_L4.9(PMR), M_L4.8(AEIC). Felt, After AEIC.
NEIC Felt at Anchorage, Cordova, Seward and Whittier.

(543) Germany

ISC	**XI**	**29 10 54 37.3**±.71	**50.24N**±.029	**8.17E**±.033	**9**±5.6			**97**	**0-8**
NEIC	XI	29 10 54 37.2	50.22N	8.14E	10				**¶97xi5249**
LEDBW	XI	29 10 54 38.1	50.29N	8.29E	5	3.2L			
SZGRF	XI	29 10 54 38.2	50.3N	8.3E	10	3.5L			
LDG	XI	29 10 54 39.9	50.2N	8.2E		3.9L			
STR	XI	29 10 54 40.7	50.16N	8.09E	10	3.8L			
UCC	XI	29 10 55 03.7	50.26N	6.15E	10	3.6L			

NEIC ML 3.8 (CLL), 3.7 (DBN), 3.6 (VIE), 3.4 (FUR).
LEDBW Felt I=IV MSK

(381) Central Italy

ISC	**XI**	**29 19 15 16.0**±.65	**43.04N**±.023	**12.86E**±.030	**4**±5.5			**114**	**0-21**
ROM	XI	29 19 15 15.3	43.0N	13.0E	6	3.8D			**¶97xi5314**
NEIC	XI	29 19 15 16.5	43.04N	12.84E	10				
LDG	XI	29 19 15 18.5	43.0N	12.9E		3.7L			
STR	XI	29 19 15 23.7	43.17N	12.36E	10	4.0L			

NEIC M_L3.9(VIE)
NEIC ML 3.8 (FUR). Felt I=V MCS in the epicentral area.

(543) Germany

ISC	**XI**	**29 20 06 08.3**±.80	**50.28N**±.024	**8.15E**±.029	**14**±6.6			**146**	**0-10**
NEIC	XI	29 20 06 08.0	50.24N	8.15E	10				**¶97xi5316**
LEDBW	XI	29 20 06 09.2	50.28N	8.27E	5	3.8L			
SZGRF	XI	29 20 06 09.3	50.3N	8.4E	7	4.0L			
LDG	XI	29 20 06 10.6	50.2N	8.2E		4.3L			
UCC	XI	29 20 06 13.7	50.14N	8.14E	10	3.9L			
STR	XI	29 20 06 16.0	49.97N	7.74E	10	4.8L			

NEIC M_L4.3(CLL).
NEIC ML 4.0 (DBN), 4.0 (FUR), 4.0 (VIE).
LEDBW Felt I=IV MSK

(162) South Island, New Zealand

ISC	**XI**	**29 21 03 31.3**±.26	**41.18S**±.043	**173.53E**±.061	**99**±4.4	**4.9b**		**109**	**0-165**
NEIC	XI	29 21 03 31.8	41.21S	173.54E	104	5.3b			**¶97xi5322**
WEL	XI	29 21 03 31.9	41.05S	173.50E	101	5.7L			
EIDC	XI	29 21 03 32.4	41.0S	173.7E	96	4.3b,4.0s			
HRVD	XI	29 21 03 33.7±.5	41.19S±.09	173.34E±.07	79±6.6				
BJI	XI	29 21 03 33.8	40.42S	173.06E	78	5.2b			

NEIC Mw5.2(HRV)
NEIC Felt strongly in the Marlborough region. Felt from Wanganui on the North Island to Christchurch on the South Island.
WEL Felt Taranaki to Christchurch, maximum intensity I=V MM in Marlborough.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}1.83±.40; $M_{\theta\theta}$4.28±.96; $M_{\phi\phi}$−6.11±.73; $M_{r\theta}$1.40±.48; $M_{r\phi}$5.19±.47; $M_{\theta\phi}$2.04±.39. Principal Axes: T 6.55,Plg38°,Azm332°; N 2.24, Plg41°,Azm198°; P −8.79,Plg25°,Azm84°. Best double couple: $M_0$7.7×10^{16}Nm, NP1: ϕ_S124°,δ42°,λ12°. NP2:ϕ_S25°,δ82°,λ132°.

(533) United Kingdom

ISC	**XI**	**30 00 59 23.6**±.79	**56.19N**±.069	**4.2W**±.11	**18**±10			**13**	**0-4**
NEIC	XI	30 00 59 23.5	56.16N	4.13W	10				**¶97xi5346**
BGS	XI	30 00 59 24.4	56.20N	4.10W	4	2.7L			

NEIC M_L2.7(BGS). Felt I=IV MM.
BGS Felt I=IV+ MSK at Doune, Callander, Thornhill, Deanston and Dunblane areas.

(160) Off east coast of North Island, N.Z.

ISC	**XI**	**30 06 32 40**±1.6	**39.97S**±.051	**177.1E**±.19	**28**			**21**	**0-7**
WEL	XI	30 06 32 42.4	39.89S	176.96E	28	3.9L			**¶97xi5374**

WEL Felt I=III MM Waipawa

(478) Utah

ISC	**XI**	**30 09 54 59.1**±.57	**37.59N**±.049	**113.05W**±.064	**5**			**19**	**0-6**
NEIC	XI	30 09 54 58.8	37.60N	113.04W	5				**¶97xi5398**

NEIC M_L3.4(GS)
NEIC Felt in the Cedar City area.

(381) Central Italy

ISC	**XI**	**30 11 24 42.2**±.79	**42.87N**±.022	**12.97E**±.024	**11**±6.3			**157**	**0-21**
ROM	XI	30 11 24 40.9	42.8N	13.0E	4	3.8D			**¶97xi5407**
NEIC	XI	30 11 24 42.1	42.88N	12.95E	10	4.1b			
PDG	XI	30 11 24 42.5	42.2N	12.9E	12	4.0L			
LDG	XI	30 11 24 44.3	42.9N	13.1E		4.0L			
STR	XI	30 11 24 50.5	43.22N	12.46E	10	4.4L			

NEIC M_L4.6(VIE), M_L4.4(STR)
NEIC ML 4.3 (FUR). Felt I=V MCS in the epicentral area.

(381) Central Italy

ISC	**XI**	**30 19 47 54.9**±.37	**42.86N**±.031	**12.91E**±.060	**10**			**46**	**0-8**
ROM	XI	30 19 47 53.2	42.8N	13.0E	5	3.2D			**¶97xi5455**
NEIC	XI	30 19 47 55.1	42.86N	12.84E	10				
LDG	XI	30 19 47 58.3	42.8N	12.6E		3.2L			

NEIC M_L3.3(VIE)
NEIC Felt I=IV MCS in the epicentral area.

(40) California-Nevada border region

ISC	**XI**	**30 21 17 07.0**±.25	**37.57N**±.032	**118.99W**±.028	**7**	**4.5b,4.4s**		**80**	**0-149**
NEIC	XI	30 21 17 05.4	37.63N	118.95W	7	4.6b			**¶97xi5462**
EIDC	XI	30 21 17 06.8	37.6N	118.9W	0	4.2b,4.4s			

NEIC Mw4.9(BRK), M_L4.9(BRK). Felt, After GM−P.
NEIC Felt at Mammoth Lakes, California.

(383) Northwestern Balkan region

ISC	**XII**	**01 00 42 57**±1.7	**45.96N**±.085	**16.0E**±.15	**11**			**16**	**0-6**
ZAG	XII	01 00 42 55	45.94N	16.25E	11	3.2L			**¶97xii0004**
LJU	XII	01 00 42 56.5	46.0N	16.1E	8				
NEIC	XII	01 00 42 57.0	45.92N	16.11E	10				

ZAG Felt in Kasina
NEIC M_L3.1(VIE), M_L2.5(LJU)

(383) Northwestern Balkan region

ISC	**XII**	**01 02 28 07**±2.9	**45.95N**±.076	**16.1E**±.31	**10**			**7**	**0-4**
ZAG	XII	01 02 28 06	45.94N	16.22E	10	3.0L			**¶97xii0016**
LJU	XII	01 02 28 07.2	46.0N	16.1E	0				
NEIC	XII	01 02 28 07.9	45.92N	16.06E	10				

ZAG Felt in Kasina
NEIC M_L2.7(VIE), M_L2.3(LJU). Less reliable solution.

(383) Northwestern Balkan region

ISC	**XII**	**01 03 18 21**±6.0	**45.9N**±.13	**16.4E**±.52	**10**			**5**	**0-1**
ZAG	XII	01 03 18 24	45.94N	16.16E	10	2.7L			**¶97xii0022**
LJU	XII	01 03 18 24.7	45.9N	16.1E	11				

ZAG Felt in Kasina

(383) Northwestern Balkan region

ISC	**XII**	**01 18 04 12**±1.6	**45.93N**±.058	**16.0E**±.15	**10**			**12**	**0-4**
ZAG	XII	01 18 04 11	45.94N	16.14E	10	2.9L			**¶97xii0123**
LJU	XII	01 18 04 12.2	45.9N	16.05E	10				
NEIC	XII	01 18 04 12.6	45.93N	16.06E	10				

ZAG Felt in Kasina
NEIC M_L3.1(VIE). Less reliable solution.

(223) Eastern Sea of Japan

ISC	**XII**	**01 18 17 49.5**±.19	**39.78N**±.036	**138.88E**±.034	**48**±4.1*	**5.0b,4.4s**		**186**	**1-149**
EIDC	XII	01 18 17 44.7±.51	39.9N	138.8E	0	4.7b,4.1s			**¶97xii0124**
JMA	XII	01 18 17 46.3±.1	39.95N±.00	138.86E±.01	43±3	4.8			
BJI	XII	01 18 17 47.0	39.93N	139.40E	48	4.1L,4.9b			
NEIC	XII	01 18 17 48.5	39.96N	138.81E	33	5.1b			
MOS	XII	01 18 17 48.8	39.9N	138.7E	36	5.4b,4.6s			

EIDC Error ellipse is semi−major=16.4km semi−minor=12.6km azimuth=100
JMA Felt I=III J1
BJI Ms4.6
NEIC Felt I=III J1 in western Akita, southwestern Aomori, northern Iwate and northwestern Yamagata Prefectures, Honshu.

(381) Central Italy

ISC	**XII**	**01 22 37 04.5**±.60	**42.86N**±.026	**12.98E**±.037	**6**±5.2			**85**	**0-8**
ROM	XII	01 22 37 04.2	42.9N	13.0E	10	3.5D			**¶97xii0155**
NEIC	XII	01 22 37 04.8	42.87N	12.98E	10				
STR	XII	01 22 37 10.3	42.92N	12.45E	6	4.2L			

NEIC M_L4.1(VIE)
NEIC Felt I=V MCS in the epicentral area.

(163) Cook Strait, New Zealand

ISC	**XII**	**02 02 22 01.0**±.44	**40.50S**±.047	**174.6E**±.10	**82**±7.9	**4.0b**		**33**	**0-166**
EIDC	XII	02 02 21 55.0±1.47	40.7S	174.2E	0	4.1b			**¶97xii0171**
NEIC	XII	02 02 22 01.5	40.46S	174.44E	71	4.2b			
WEL	XII	02 02 22 02.9	40.47S	174.63E	62	4.5L			

EIDC Error ellipse is semi−major=52.3km semi−minor=33.4km azimuth=48
WEL Felt Wanganui to Wellington, maximum intensity I=IV MM

(381) Central Italy

ISC	**XII**	**02 09 20 45.6**±.60	**42.86N**±.028	**12.93E**±.039	**8**±5.2			**80**	**0-8**
ROM	XII	02 09 20 45.2	42.9N	13.0E	5	3.5D			**¶97xii0221**
NEIC	XII	02 09 20 45.9	42.88N	12.90E	10				
STR	XII	02 09 20 47	42.88N	13E	6	4.0L			
LDG	XII	02 09 20 47.6	42.8N	12.9E		3.7L			

NEIC M_L4.1(VIE)
NEIC Felt I=V MCS in the epicentral area.

(546) Austria

ISC	**XII**	**02 17 18 04.2**±.46	**46.09N**±.036	**13.44E**±.049	**8**±6.6			**43**	**0-7**
NEIC	XII	02 17 18 04.7	45.97N	13.35E	10				**¶97xii0286**
ROM	XII	02 17 18 04.9	46.1N	13.6E	10	3.1D			
LJU	XII	02 17 18 05.4	46.1N	13.5E	13				
LDG	XII	02 17 18 06.9	46.0N	13.4E		3.1L			

NEIC M_L3.1(VIE)
NEIC ML 2.6 (LJU).
LJU Felt I=IV EMS in Anhovo, Gonjace, Kojsko, Ajba and Volarje, Slovenia

(48) Lower California

ISC	**XII**	**03 04 57 18**±2.9	**31.7N**±.22	**116.29W**±.093	**6**			**25**	**1-8**
NEIC	XII	03 04 57 21.0	31.88N	116.31W	6				**¶97xii0365**
ECX	XII	03 04 57 23	31.96N	116.25W	13	3.5D			

NEIC M_L3.6(PAS), M_L3.6(GS). Felt, After PAS.
ECX Felt in Ensenada

(43) Southern California

NEIC	**XII**	**03 23 06 23.6**	**33.16N**	**115.65W**	**3**				**1-5**
ECX	XII	03 23 06 43.2	32.30N	116.67W	8	3.5D			**¶97xii0517**

NEIC M_L2.9(PAS), After PAS.
ECX Felt in the Las Palmas Valley

(221) Kuril Islands

ISC	**XII**	**04 01 03 48**±1.1	**43.75N**±.075	**147.4E**±.12	**56**±9.2	**3.9b**		**40**	**1-152**
SKHL	XII	04 01 03 48.0	43.8N±.08	147.4E±.09	53±2				**¶97xii0526**
JMA	XII	04 01 03 48.1±.3	43.60N±.01	147.25E±.02	30±5	4.0			
NEIC	XII	04 01 03 49.0	43.76N	147.31E	70				
EIDC	XII	04 01 03 51.2±2.93	43.8N	147.3E	72±26.6	3.6b			

SKHL K10.5 Felt I=III−IV MSK at Shikotan
EIDC Error ellipse is semi−major=21.9km semi−minor=16.9km azimuth=124

(536) Sweden

ISC	**XII**	**04 03 10 45**±1.9	**64.79N**±.049	**19.7E**±.13	**13**±16			**21**	**1-13**
EIDC	XII	04 03 10 45.0±2.09	64.7N	20.2E	0	3.0L			**¶97xii0546**
HEL	XII	04 03 10 46	64.77N	19.67E		2.9L			
BER	XII	04 03 10 46.3	64.8N	19.8E	2	2.7L			

UPP Felt at Vasterbotten Sweden
EIDC Error ellipse is semi−major=20.2km semi−minor=16.5km azimuth=109
HEL M_D3.2

(244) Taiwan

ISC	**XII**	**04 07 56 28.9**±.48	**23.58N**±.041	**121.59E**±.049	**23**			**25**	**0-3**
TAP	XII	04 07 56 28.7	23.59N	121.56E	23	4.2L			**¶97xii0575**
JMA	XII	04 07 56 29.8±.2	23.59N±.02	121.65E±.02	86	3.7			
BJI	XII	04 07 56 36.7	24.02N	120.86E	13	3.4L			

TAP Felt I=III J, I Yuli, Hwalien

Agency	mo	d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
(354) Western Pakistan											
ISC	**XII**	**04**	**10**	**17**	**01±1.6**	**29.00N±.043**	**64.15E±.027**	**32±12**	**4.9b,4.6s**	**196**	**3-141**
MOS	XII	04	10	17	00.8	28.8N	64.2E	33	5.3b,4.7s		**¶97xii0598**
NDI	XII	04	10	17	01.3	29.09N	64.11E	0	5.0b		
NEIC	XII	04	10	17	01.3	29.09N	64.11E	33	5.0b,4.5s		
BJI	XII	04	10	17	01.4	29.04N	64.19E	32	5.2b,5.0s		
EIDC	XII	04	10	17	02.6±.38	29.1N	64.2E	23±2.1	4.6b,5.6L		
HRVD	XII	04	10	17	05.6±.6	29.43N±.11	64.81E±.08	33			

NEIC Mw5.1(HRV)

NEIC Felt at Dalbandin.

EIDC Error ellipse is semi−major=10.1km semi−minor=8.6km azimuth=172

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c29; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.55±.70; $M_{\theta\theta}$−0.41±.71; $M_{\phi\phi}$−4.15±.65; $M_{r\theta}$0.50±1.71; $M_{r\phi}$−0.97±1.46; $M_{\theta\phi}$−4.26±.85. Principal Axes: T 4.93,Plg69°,Azm40°; N 2.03,Plg20°,Azm212°; P −6.95,Plg3°,Azm303°. Best double couple: $M_0$5.9×10^{16}Nm, NP1: ϕ_S53°,δ46°,λ119°. NP2:ϕ_S194°,δ51°,λ63°.

(71) Near coast of Guatemala											
ISC	**XII**	**04**	**14**	**56**	**40.3±.44**	**13.58N±.043**	**90.75W±.031**	**69±3.9**	**5.1b**	**279**	**1-161**
EIDC	XII	04	14	56	41.1±4.29	13.7N	90.5W	60±39.3	4.8b,5.4s		**¶97xii0634**
BJI	XII	04	14	56	41.7	13.60N	90.70W	80	5.9s		
NEIC	XII	04	14	56	41.7	13.64N	90.66W	81	5.2b,5.4s		
HRVD	XII	04	14	56	42.7±.2	13.56N±.02	91.25W±.02	36±1.1			
MEX	XII	04	14	56	49.1	13.9N	91.5W	12	5.1D		

EIDC Error ellipse is semi−major=22.4km semi−minor=11.3km azimuth=64

NEIC Mw6.0(HRV), M_D5.4(SSS)

NEIC Felt I=IV MM at San Salvador, El Salvador.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c78; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}7.56±.13; $M_{\theta\theta}$−6.32±.17; $M_{\phi\phi}$−1.24±.22; $M_{r\theta}$4.82±.31; $M_{r\phi}$−3.50±.30; $M_{\theta\phi}$3.73±.15. Principal Axes: T 9.6,Plg71°,Azm44°; N 0.7, Plg4°,Azm301°; P −10.3,Plg18°,Azm209°. Best double couple: $M_0$9.9×10^{17}Nm, NP1: ϕ_S292°,δ27°,λ80°. NP2:ϕ_S123°,δ64°,λ95°.

(230) Near south coast of Honshu											
ISC	**XII**	**04**	**19**	**37**	**11.8±.87**	**34.22N±.064**	**139.14E±.085**	**5**		**10**	**0-2**
JMA	XII	04	19	37	11.8±.1	34.20N±.01	139.13E±.01	5±2	2.9		**¶97xii0678**

JMA Felt I=II J1

(71) Near coast of Guatemala											
ISC	**XII**	**04**	**20**	**08**	**47±1.1**	**13.5N±.12**	**90.78W±.071**	**74±7.7**	**4.4b**	**74**	**1-151**
MEX	XII	04	20	08	47.6	13.7N	90.9W	26	5.0D		**¶97xii0683**
NEIC	XII	04	20	08	48.3	13.72N	90.67W	79	4.4b		
EIDC	XII	04	20	09	09.5±5.37	14.4N	90.8W	228±48.9	3.7b		

NEIC M_D4.4(SSS)

NEIC Felt I=III MM at San Salvador, El Salvador.

EIDC Error ellipse is semi−major=38.5km semi−minor=22.5km azimuth=57

(71) Near coast of Guatemala											
ISC	**XII**	**04**	**22**	**14**	**24.0±.56**	**13.51N±.058**	**90.80W±.039**	**69±4.8**	**4.9b**	**207**	**1-151**
MEX	XII	04	22	14	23.5	13.8N	90.8W	45	5.2D		**¶97xii0701**
HRVD	XII	04	22	14	24.7±.3	13.49N±.04	91.21W±.06	48±2.6			
NEIC	XII	04	22	14	26.2	13.64N	90.62W	87	5.0b,4.7s		
EIDC	XII	04	22	14	26.6±.41	13.7N	90.6W	72±2.5	4.6b		
BJI	XII	04	22	14	28.0	13.60N	90.60W	86	6.5s		

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c36; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.14±.06; $M_{\theta\theta}$−1.32±.08; $M_{\phi\phi}$0.18±.11; $M_{r\theta}$0.75±.10; $M_{r\phi}$−0.65±.10; $M_{\theta\phi}$0.81±.06. Principal Axes: T 1.51,Plg67°,Azm69°; N 0.46, Plg15°,Azm300°; P −1.97,Plg17°,Azm206°. Best double couple: $M_0$1.7×10^{17}Nm, NP1: ϕ_S274°,δ31°,λ60°. NP2:ϕ_S128°,δ64°,λ106°.

NEIC Mw5.5(HRV), M_D5.1(SSS)

NEIC Felt I=III MM at San Salvador, El Salvador.

EIDC Error ellipse is semi−major=18.9km semi−minor=9.6km azimuth=58

(218) Near east coast of Kamchatka											
ISC	**XII**	**04**	**22**	**41**	**51.0±.61**	**55.12N±.043**	**162.56E±.051**	**41±6.0**	**4.8b,5.2s**	**214**	**1-132**
BJI	XII	04	22	41	48.2	55.23N	162.35E	28	5.0b,5.7s		**¶97xii0706**
KRSC	XII	04	22	41	48.6	55.02N	162.90E	17	5.4b		
NEIC	XII	04	22	41	50.4	55.22N	162.62E	33	5.1b,5.1s		
MOS	XII	04	22	41	50.7	55.2N	162.6E	38	5.4b,5.4s		
EIDC	XII	04	22	41	53.4±.54	55.3N	162.5E	42±3.7	4.4b,5.0L		
HRVD	XII	04	22	41	55.5±.4	54.89N±.05	163.15E±.08	15			

KRSC Felt I=III MSK Kronoki

NEIC Mw5.5(HRV).

EIDC Error ellipse is semi−major=14.9km semi−minor=10.3km azimuth=146

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c51; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.61±.05; $M_{\theta\theta}$−0.03±.07; $M_{\phi\phi}$−1.58±.06; $M_{r\theta}$1.00±.21; $M_{r\phi}$1.11±.28; $M_{\theta\phi}$−0.79±.07. Principal Axes: T 2.22,Plg67°,Azm330°; N 0.20, Plg12°,Azm211°; P −2.42,Plg20°,Azm116°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S187°,δ27°,λ63°. NP2:ϕ_S36°,δ66°,λ103°.

(378) Pyrenees											
ISC	**XII**	**04**	**22**	**51**	**45.5±.37**	**43.50N±.023**	**0.65W±.031**	**12±2.8**		**97**	**0-8**
NEIC	XII	04	22	51	44.8	43.54N	0.68W	5			**¶97xii0712**
MDD	XII	04	22	51	47.2	43.5N	0.6W	1	3.4b		
LDG	XII	04	22	51	47.2	43.4N	0.7W		4.1L		
STR	XII	04	22	51	47.4	43.44N	0.63W	1	3.8L		

NEIC Felt I=IV MM in the Lacq Oilfield area, France.

(218) Near east coast of Kamchatka											
ISC	**XII**	**05**	**11**	**26**	**53.8±.81**	**54.80N±.023**	**162.01E±.029**	**25±5.9**	**6.1b,7.4s**	**859**	**0-164**
EIDC	XII	05	11	26	51.0±.47	54.9N	162.0E	0	5.4b,7.4s		**¶97xii0833**
KRSC	XII	05	11	26	51.0	54.64N	162.55E	10	6.7b		
BJI	XII	05	11	26	54.5	54.82N	161.90E	42	5.7b,8.0s		
NEIC	XII	05	11	26	54.6	54.84N	162.04E	33	6.3b,7.6s		
MOS	XII	05	11	26	54.8	54.9N	161.9E	33	7.0b,7.9s		
HRVD	XII	05	11	27	21.3±.1	54.31N±.01	161.91E±.01	34±.3			

EIDC Error ellipse is semi−major=16.1km semi−minor=11.0km azimuth=148

KRSC Felt I=IV MSK base Rodnikovaya, III Tigil, III Nachiki, V Paratunka, III Gorodok PVO , III−IV Koryaky, V−VI Rybachiy, II−III Ust−Khayryuzovo, III Apacha, V Mayak Kruglyy, III Paujhetka, III Ozernovskiy, III−IV GMS Vodopadnaya, III Sobolevo, I Ossora, V S−S Berezovaya, II Ust−Bolsheresk, IV Severo−Kurilsk, V Ust−Kamchatsk, VI−VII Kronoki, V Krutoberegovo, V M. Afrika, VI−VII P. Kronoki, VI−VII M. Kozlova, VI−VIII Mayak Kronotskiy, VI−VII Gms Kronoki, IV Nikolskoe, VI Laguna Kalygir, IV Klyuchi, V−VI Zaozernyy, V−VI Petropavlovsk, III Esso, VI−VII M. Shipunskiy, IV Milkovo, IV Kozyrevsk, VI Zhupanovo, V Elizovo

NEIC Mw7.8(HRV), Me7.2(GS). Tsunami generated.

NEIC Radiated energy from the USGS moment tensor solution: 1.5±0.2×10^{15}Nm/24

NEIC Moment tensor solution: s39, scale 10^{20}Nm; M_{rr}1.82; $M_{\theta\theta}$−0.26; $M_{\phi\phi}$−1.55; $M_{r\theta}$2.68; $M_{r\phi}$2.50; $M_{\theta\phi}$−0.88. Depth 10km; Principal axes: T 4.15,Plg57°,Azm327°; N −0.02,Plg9°, Azm223°; P −4.12,Plg31°,Azm127°. Best double couple: $M_0$4.1×10^{20}Nm; NP1:ϕ_S190°,δ16°, λ56°. NP2:ϕ_S45°,δ77°,λ99°.

NEIC Mw 7.7 (GS), 7.5 (OBN). Ms 7.7 (BRK). Felt I=VII MM in the epicentral area and V MM at Petropavlovsk-Kamchatskiy and Ust-Kamchatsk. Felt II MM at Severo-Kurilsk, Paramushir. Also felt aboard the cargo ship Stepan Krasheninnikov in the epicentral area. Tsunami generated with recorded wave heights (peak-to-trough) at the following selected tide stations: 15 cm on Adak and Unalaska, Alaska; 60 cm at Kahului, 52 cm at Haleiwa, 47 cm at Hilo, 30 cm at Hanalei, 12 cm on Midway, 10 cm at Snug Harbor and 5 cm at Honolulu, Hawaii. Complex earthquake with at least one event occurring about 14 seconds after the onset.

MOS Felt I=VI−VII MSK at Mayak Kronotskii; I=V at Ust−Kamchatsk,Petropavlovsk−Kamchatskii; I=II−III at Severo−Kurilsk.

MOS M_0=2.2×10^{20}Nm. Fault plane solution. NP1:ϕ_S193°,δ20°,λ76°. NP2:ϕ_S28°,δ71°,λ95°. Principal axes: T Plg64°,Azm306°; N Plg5°,Azm207°; P Plg26°,Azm114°

MOS Seismic moment Mo=2.2×10^{20}Nm (after OBN)

MOS Focal mechanism: C76,D11; NP1:ϕ_S193°,δ20°,λ76°. NP2:ϕ_S28°,δ71°,λ95°. Principle axes: T Plg64°,Azm306°; N Plg5°,Azm207°; P Plg26°,Azm114°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c90; Mantle waves: s40,c113; Half duration: 17s1. Moment tensor: Scale 10^{20}Nm; M_{rr}3.61±.02; $M_{\theta\theta}$−0.87±.01; $M_{\phi\phi}$−2.74±.01; $M_{r\theta}$2.57±.05; $M_{r\phi}$2.80±.05; $M_{\theta\phi}$−1.79±.01. Principal Axes: T 5.25,Plg66°,Azm321°; N 0.14,Plg6°,Azm217°; P −5.39,Plg23°,Azm124°. Best double couple: $M_0$5.3×10^{20}Nm, NP1:ϕ_S202°,δ23°,λ74°. NP2:ϕ_S39°,δ68°,λ97°.

(218) Near east coast of Kamchatka											
ISC	**XII**	**05**	**11**	**45**	**31±1.5**	**54.73N±.077**	**162.6E±.11**	**58±12**	**5.1b**	**88**	**2-85**
EIDC	XII	05	11	45	24.6±.65	54.7N	162.5E	0	4.8b,4.8L		**¶97xii0841**
MOS	XII	05	11	45	25.6	54.8N	162.4E	16	5.6b		
NEIC	XII	05	11	45	28.3	54.80N	162.52E	33	5.3b		
KRSC	XII	05	11	45	34.4	54.97N	161.97E	11	5.4b		

EIDC Error ellipse is semi−major=22.4km semi−minor=14.6km azimuth=140

KRSC Felt I=III M. Shipunskiy

(266) Molucca Passage											
ISC	**XII**	**05**	**13**	**56**	**13.0±.61**	**0.66N±.024**	**125.12E±.032**	**99±6.1**	**5.4b**	**187**	**6-164**
MOS	XII	05	13	56	07.4	1.0N	125.0E	33	6.0b		**¶97xii0891**
EIDC	XII	05	13	56	11.5±1.62	0.7N	125.2E	67±13.3	5.3b		
NEIC	XII	05	13	56	12.3	0.66N	125.11E	89	5.5b		
BJI	XII	05	13	56	14.2	0.95N	125.19E	96	5.4b		

EIDC Error ellipse is semi−major=20.8km semi−minor=10.2km azimuth=78

NEIC Felt I=IV MM at Tondano and III MM at Manado, Sulawesi.

(219) Off east coast of Kamchatka											
ISC	**XII**	**05**	**14**	**23**	**05.5±.59**	**53.78N±.036**	**161.35E±.058**	**41±5.1**	**5.0b**	**234**	**1-150**
EIDC	XII	05	14	23	01.1±.49	53.8N	161.5E	0	4.8b,5.4L		**¶97xii0901**
KRSC	XII	05	14	23	01.9	53.56N	161.85E	19	5.3b		
BJI	XII	05	14	23	02.1	54.24N	161.05E	19	5.0b		
NEIC	XII	05	14	23	04.6	53.83N	161.46E	33	5.1b		
MOS	XII	05	14	23	04.7	53.9N	161.4E	33	5.5b		

EIDC Error ellipse is semi−major=16.9km semi−minor=10.3km azimuth=146

NEIC Felt I=III MM at Petropavlovsk−Kamchatskiy.

MOS Felt I=II−III MSK at Petropavlovsk−Kamchatskii.

(14) Kenai Peninsula											
ISC	**XII**	**05**	**14**	**57**	**05.5±.17**	**60.94N±.019**	**149.23W±.033**	**50±2.2**	**4.9b**	**228**	**0-165**
BJI	XII	05	14	57	03.5	60.90N	149.20W	36	4.9b		**¶97xii0918**
NEIC	XII	05	14	57	06.5	60.90N	149.19W	36	4.9b		
EIDC	XII	05	14	57	07.0±2.11	61.1N	149.2W	47±20.0	4.5b,4.6L		

NEIC M_L5.1(AEIC), M_L4.9(PMR). After AEIC.

NEIC Felt I=V MM at Girdwood and IV MM at Anchorage, Chugiak, Eagle River, Palmer and Wasilla.

EIDC Error ellipse is semi−major=19.5km semi−minor=11.5km azimuth=31

(219) Off east coast of Kamchatka											
ISC	**XII**	**05**	**16**	**17**	**26.4±.78**	**53.63N±.055**	**161.3E±.11**	**47±6.1**	**4.2b**	**60**	**1-86**
EIDC	XII	05	16	17	21.5±.74	53.7N	161.4E	0	4.1b,4.7L		**¶97xii0950**
KRSC	XII	05	16	17	22.8	53.46N	161.72E	16	4.8b		
BJI	XII	05	16	17	23.2	54.16N	160.99E	20	4.3b		
NEIC	XII	05	16	17	25.0	53.72N	161.29E	33	4.8b		
MOS	XII	05	16	17	25.3	53.8N	161.3E	31	4.9b		

EIDC Error ellipse is semi−major=22.4km semi−minor=14.1km azimuth=143

KRSC Felt I=II M. Shipunskiy

(48) Lower California											
ISC	**XII**	**05**	**16**	**25**	**11±12**	**31.9N±.39**	**116.2W±.17**	**14±63**		**20**	**1-2**
NEIC	XII	05	16	25	11.5	31.93N	116.32W	6			**¶97xii0953**
ECX	XII	05	16	25	12.6	31.97N	116.25W	14	3.5D		

NEIC M_L3.6(PAS), After PAS.

ECX Felt in Ensenada

(218) Near east coast of Kamchatka											
ISC	**XII**	**05**	**16**	**27**	**09±1.0**	**53.92N±.052**	**160.9E±.12**	**55±8.8**	**5.1b,5.7s**	**166**	**1-144**
BJI	XII	05	16	27	00.0	54.10N	161.90E	33	5.1b,5.8s		**¶97xii0956**
MOS	XII	05	16	27	02.7	53.7N	162.1E	33	5.5b		
NEIC	XII	05	16	27	02.8	54.09N	161.88E	33	5.2b		
KRSC	XII	05	16	27	09.3	53.76N	161.06E	30	5.0b		
EIDC	XII	05	16	27	13.6±5.10	54.0N	160.8E	79±47.0	4.5b,5.0L		

KRSC Felt I=IV M. Shipunskiy, II−III Petropavlovsk

EIDC Error ellipse is semi−major=17.7km semi−minor=12.0km azimuth=131

(43) Southern California											
ISC	**XII**	**05**	**17**	**04**	**38.1±.73**	**34.09N±.032**	**117.00W±.034**	**7±6.2**	**3.7b**	**58**	**0-36**
NEIC	XII	05	17	04	38.9	34.10N	117.00W	5			**¶97xii0975**
EIDC	XII	05	17	04	39.8±1.75	34.1N	116.9W	0	3.9L,3.7b		

NEIC M_L4.5(BRK), M_L4.1(PAS). After PAS.

NEIC ML 4.2 (GS). Felt in the epicentral area.

EIDC Error ellipse is semi−major=38.5km semi−minor=8.3km azimuth=66

(219) Off east coast of Kamchatka											
ISC	**XII**	**05**	**18**	**48**	**20.7±.80**	**53.72N±.022**	**161.72E±.028**	**17±5.6**	**6.1b,6.5s**	**757**	**1-162**
KRSC	XII	05	18	48	21.2	53.68N	161.85E	24	6.1b		**¶97xii1025**
BJI	XII	05	18	48	21.3	54.01N	161.46E	31	5.9b,6.9s		
MOS	XII	05	18	48	22.2	53.7N	161.6E	33	6.4b,6.7s		
NEIC	XII	05	18	48	22.7	53.75N	161.75E	33	6.2b,6.5s		
EIDC	XII	05	18	48	25.4±.39	53.9N	161.5E	46±2.8	5.5b,6.5s		
HRVD	XII	05	18	48	28.3±.2	53.68N±.02	161.96E±.03	16			

KRSC Felt I=I−II Severo−Kurilsk, III Nachiki, Afrika, Petropavlovsk

MOS Felt I=III−IV MSK at Petropavlovsk−Kamchatskii; I=I−II at Severo−Kurilsk.

MOS M_0=9.3×10^{18}Nm

NEIC Mw6.6(OBN), Me6.5(GS)

NEIC Radiated energy from the P−wave first−motion solution: 1.1±0.2×10^{14}Nm/18

NEIC Mw 6.5 (HRV), 6.4 (GS). Ms 6.4 (BRK). Felt I=IV MSK at Petropavlovsk-Kamchatskiy. Also felt II MSK at Severo-Kurilsk, Paramushir. Mo=9.3×10^{18}Nm (OBN).

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S195°,δ5°,λ90°. NP2:ϕ_S15°,δ85°,λ90°. Principal axes: T Plg50°,Azm285°; P Plg40°,Azm105°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s47, scale 10^{18}Nm; M_{rr}0.54; $M_{\theta\theta}$0.20; $M_{\phi\phi}$−0.74; $M_{r\theta}$1.02; $M_{r\phi}$3.52; $M_{\theta\phi}$0.47. Depth 16km; Principal axes: T 3.81,Plg48°,Azm296°; N −0.11,Plg10°,Azm194°; P −3.70,Plg40°,Azm96°. Best double couple: $M_0$3.8×10^{18}Nm; NP1:ϕ_S126°,δ11°,λ21°. NP2: ϕ_S15°,δ86°,λ100°.

EIDC Error ellipse is semi−major=15.1km semi−minor=9.6km azimuth=155Aftershock: abbreviated analysis

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c77; Mantle waves: s4,c4; Half duration: 4s0. Moment tensor: Scale 10^{18}Nm; M_{rr}2.70±.06; $M_{\theta\theta}$0.34±.07; $M_{\phi\phi}$−3.04±.08; $M_{r\theta}$1.22±.17; $M_{r\phi}$4.14±.19; $M_{\theta\phi}$−1.66±.07. Principal Axes: T 4.89,Plg63°,Azm279°; N 0.98,Plg4°,Azm18°; P −5.87,Plg27°,Azm110°. Best double couple: $M_0$5.4×10^{18}Nm, NP1:ϕ_S212°,δ19°,λ104°. NP2:ϕ_S17°,δ72°,λ85°.

(230) Near south coast of Honshū

ISC	**XII 05 23 57 34.5**±.62	**34.24N**±.047	**139.12E**±.067	**8**	3.8b	**15**	**0-54**	
NEIC	XII 05 23 57 33.1	33.95N	138.64E	10			**¶97xii1159**	
EIDC	XII 05 23 57 33.3±1.37	34.0N	138.7E	0	3.8L,3.7b			
JMA	XII 05 23 57 35.1±.0	34.27N±.00	139.11E±.01	8±2	3.6			

NEIC Felt I=V MM, Poor solution.
NEIC Felt I=III J1 on Kozu-shima; II J1 on Miyake-jima and Nii-jima.
EIDC Error ellipse is semi-major=34.3km semi-minor=14.8km azimuth=71
JMA Nodal plane solution: N108, Score 94%. NP1:ϕ_S266°,δ11°,λ138°. NP2:ϕ_S39°,δ82°,λ82°. Principle axes: T Plg52°,Azm300°; N Plg8°,Azm40°; P Plg37°,Azm136°.

(366) Turkey

ISC	**XII 06 00 12 58.5**±.23	**36.86N**±.024	**30.88E**±.027	**103**±3.2	**4.4b**	**171**	**1-124**	
BJI	XII 06 00 12 57.7	36.93N	30.27E	133	4.9b		**¶97xii1168**	
ISK	XII 06 00 12 58.5	36.86N	30.81E	10	4.4D			
NEIC	XII 06 00 12 59.0	36.94N	30.89E	107	4.2b			
EIDC	XII 06 00 13 00.4±1.98	37.0N	31.0E	102±15.9	4.4b			
THE	XII 06 00 13 05.5	37.3N	30.5E	15	4.3L			

NEIC Felt in Antalya, Burdur and Isparta.
EIDC Error ellipse is semi-major=16.8km semi-minor=15.2km azimuth=135

(218) Near east coast of Kamchatka

ISC	**XII 06 00 41 03.2**±.50	**53.93N**±.034	**160.83E**±.049	**56**±4.4	**5.0b,5.1s**	**288**	**1-144**	
BJI	XII 06 00 40 58.2	54.12N	160.73E	27	4.9b,5.4s		**¶97xii1178**	
NEIC	XII 06 00 41 00.7	54.01N	160.90E	33	5.2b			
MOS	XII 06 00 41 01.3	54.1N	160.8E	33	5.4b			
KRSC	XII 06 00 41 02.4	53.82N	161.14E	29	5.0b			
EIDC	XII 06 00 41 07.3±2.54	54.0N	160.7E	77±22.6	4.5b,4.9s			

KRSC Felt I=II M. Shipunskiy
EIDC Error ellipse is semi-major=17.0km semi-minor=10.8km azimuth=139Aftershock: abbreviated analysis

(230) Near south coast of Honshū

ISC	**XII 06 01 18 40.1**±.80	**34.28N**±.063	**139.1E**±.10	**6**±14		**9**	**0-2**	
JMA	XII 06 01 18 40.4±.1	34.27N±.01	139.11E±.01	5±2	3.0		**¶97xii1189**	

JMA Felt I=II J1

(218) Near east coast of Kamchatka

ISC	**XII 06 06 37 05.9**±.97	**54.80N**±.033	**162.76E**±.041	**29**±7.1	**5.1b,5.2s**	**341**	**1-145**	
EIDC	XII 06 06 37 02.7±.46	54.9N	162.6E	0	5.0b,5.6L		**¶97xii1275**	
KRSC	XII 06 06 37 02.8	54.72N	163.26E	17	5.8b			
BJI	XII 06 06 37 04.2	54.80N	162.70E	33	5.0b,5.4s			
MOS	XII 06 06 37 04.9	54.8N	162.9E	27	5.6b			
NEIC	XII 06 06 37 06.2	54.83N	162.77E	33	5.2b			
HRVD	XII 06 06 37 09.0±.4	54.57N±.05	162.19E±.08	39±3.7				

EIDC Error ellipse is semi-major=15.0km semi-minor=10.6km azimuth=147Aftershock: abbreviated analysis
KRSC Felt I=II–III Petropavlovsk
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c41; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.81±.07; $M_{\theta\theta}$−0.28±.10; $M_{\phi\phi}$−1.53±.11; $M_{r\theta}$0.85±.20; $M_{r\phi}$0.68±.20; $M_{\theta\phi}$−0.73±.11. Principal Axes: T 2.16,Plg71°,Azm338°; N −0.04, Plg12°,Azm211°; P −2.12,Plg14°,Azm118°. Best double couple: $M_0$2.1×10^{17}Nm, NP1: ϕ_S192°,δ32°,λ68°. NP2:ϕ_S38°,δ60°,λ103°.

(218) Near east coast of Kamchatka

ISC	**XII 06 06 38 03.8**±.74	**54.67N**±.031	**161.43E**±.041	**60**±7.0	**5.6b,5.0s**	**405**	**2-163**	
BJI	XII 06 06 37 57.4	54.84N	161.69E	39	5.0b,5.5s		**¶97xii1276**	
MOS	XII 06 06 38 00.3	54.6N	161.5E	32	5.7b			
NEIC	XII 06 06 38 00.7	54.69N	161.46E	33	5.7b,5.0s			
EIDC	XII 06 06 38 07.6±.70	54.8N	161.3E	79±6.6	5.2b,5.5s			
HRVD	XII 06 06 38 08.6±.3	54.52N±.03	162.08E±.04	46				
KRSC	XII 06 06 38 09.6	54.07N	160.83E	0	5.5b			

NEIC Mw5.6(HRV).
EIDC Error ellipse is semi-major=15.2km semi-minor=9.5km azimuth=136Aftershock: abbreviated analysis
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c53; Mantle waves: s1,c1; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.38±.06; $M_{\theta\theta}$−0.50±.08; $M_{\phi\phi}$−1.87±.08; $M_{r\theta}$0.93±.12; $M_{r\phi}$0.81±.12; $M_{\theta\phi}$−1.28±.08. Principal Axes: T 2.70,Plg75°,Azm336°; N 0.21,Plg8°,Azm214°; P −2.91,Plg13°,Azm123°. Best double couple: $M_0$2.8×10^{17}Nm, NP1:ϕ_S202°,δ33°,λ75°. NP2:ϕ_S39°,δ58°,λ100°.
KRSC Felt I=III M. Shipunskiy

(228) Near east coast of Honshū

ISC	**XII 06 06 40 47.5**±.46	**35.64N**±.053	**140.03E**±.068	**50**±5.2	**4.4b**,4.9s	**58**	**0-148**	
MOS	XII 06 06 40 41.3	35.4N	140.0E	12	5.1b		**¶97xii1277**	
NEIC	XII 06 06 40 44.2	35.38N	140.00E	33	4.7b			
BJI	XII 06 06 40 44.9	35.05N	140.81E	57	4.7b,4.9s			
JMA	XII 06 06 40 46.3±.1	35.70N±.01	140.12E±.01	56±2	4.6			
EIDC	XII 06 06 40 49.9±1.59	35.5N	139.9E	65±18.5	4.2b			

NEIC Felt I=V MM, Less reliable solution.
NEIC Felt I=III J1 in parts of Chiba, Kanagawa, Saitama and Tokyo Prefectures. Also felt in southern Ibaraki Prefecture.
JMA Nodal plane solution: N130, Score 94%. NP1:ϕ_S98°,δ78°,λ11°. NP2:ϕ_S6°,δ79°,λ169°. Principle axes: T Plg16°,Azm322°; N Plg74°,Azm145°; P Plg1°,Azm52°.
EIDC Error ellipse is semi-major=27.2km semi-minor=6.4km azimuth=66Multiple, mixed az

(219) Off east coast of Kamchatka

ISC	**XII 06 07 10 27**±1.9	**53.9N**±.16	**162.7E**±.18	**16**		**5**	**1-3**	
KRSC	XII 06 07 10 28.9	54.09N	162.63E	16	3.9b		**¶97xii1287**	

KRSC Felt I=II–III M. Shipunskiy

(230) Near south coast of Honshū

ISC	**XII 06 10 10 33**±1.0	**34.26N**±.087	**139.1E**±.11	**3**±25		**6**	**0-1**	
JMA	XII 06 10 10 32.9±.1	34.26N±.01	139.09E±.01	8±2	2.8		**¶97xii1351**	

JMA Felt I=II J1

(219) Off east coast of Kamchatka

ISC	**XII 06 10 14 43**±1.5	**53.8N**±.15	**162.3E**±.20	**3**		**5**	**1-3**	
KRSC	XII 06 10 14 44.7	53.83N	162.04E	3	4.0b		**¶97xii1353**	

KRSC Felt I=III–IV M. Shipunskiy

(358) Romania

ISC	**XII 06 12 17 24.4**±.43	**45.64N**±.032	**27.01E**±.062	**41**±7.4	**3.9b**	**59**	**0-48**	
NEIC	XII 06 12 17 23.6	45.68N	27.09E	33	4.2b		**¶97xii1397**	
EIDC	XII 06 12 17 25.5±2.44	45.6N	27.0E	31±19.1	3.8b,3.7L			
BUC	XII 06 12 17 25.6	45.65N	27.01E		4.1D			

NEIC Felt at Focsani.
EIDC Error ellipse is semi-major=29.1km semi-minor=12.5km azimuth=131Multiple, same az

(218) Near east coast of Kamchatka

ISC	**XII 06 12 37 22.3**±.48	**54.85N**±.027	**162.04E**±.036	**41**±4.4	**5.3b,5.7s**	**533**	**0-159**	
BJI	XII 06 12 37 18.9	55.01N	161.45E	16	5.0b,6.0s		**¶97xii1406**	
NEIC	XII 06 12 37 21.6	54.92N	162.10E	33	5.5b,5.6s			
KRSC	XII 06 12 37 21.8	54.82N	162.24E	21	5.6b			
MOS	XII 06 12 37 21.9	54.9N	162.1E	39	5.8b			
EIDC	XII 06 12 37 24.3±3.99	54.9N	162.0E	38±34.6	4.9b,5.7s			
HRVD	XII 06 12 37 28.2±.1	54.78N±.02	162.62E±.02	34				

NEIC Mw5.9(HRV), Mw5.8(GS).
NEIC Moment tensor solution: s15, scale 10^{17}Nm; M_{rr}4.43; $M_{\theta\theta}$0.12; $M_{\phi\phi}$−4.54; $M_{r\theta}$1.02; $M_{r\phi}$2.43; $M_{\theta\phi}$−1.08. Depth 16km; Principal axes: T 5.15,Plg74°,Azm303°; N 0.31,Plg5°,Azm195°; P −5.46,Plg15°,Azm104°. Best double couple: $M_0$5.3×10^{17}Nm; NP1:ϕ_S186°,δ31°,λ80°. NP2: ϕ_S18°,δ60°,λ96°.
KRSC Felt I=V Mayak Kronozkiy
EIDC Error ellipse is semi-major=14.0km semi-minor=9.7km azimuth=139
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c73; Mantle waves: s9,c15; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}6.78±.09; $M_{\theta\theta}$−0.29±.12; $M_{\phi\phi}$−6.49±.12; $M_{r\theta}$1.65±.22; $M_{r\phi}$4.72±.23; $M_{\theta\phi}$−2.97±.12. Principal Axes: T 8.34,Plg73°,Azm286°; N 0.90,Plg2°,Azm21°; P −9.24,Plg17°,Azm111°. Best double couple: $M_0$8.8×10^{17}Nm, NP1:ϕ_S204°,δ28°,λ93°. NP2:ϕ_S20°,δ62°,λ88°.

(219) Off east coast of Kamchatka

ISC	**XII 06 12 43 31.6**±.62	**53.61N**±.036	**161.60E**±.058	**42**±5.2	**5.0b**,5.5s	**212**	**1-150**	
KRSC	XII 06 12 43 29.1	53.61N	161.64E	6	5.3b		**¶97xii1407**	
BJI	XII 06 12 43 29.2	53.99N	161.03E	18	4.9b,5.4s			
MOS	XII 06 12 43 30.3	53.7N	161.7E	30	5.5b			
NEIC	XII 06 12 43 30.6	53.64N	161.63E	33	5.2b			
EIDC	XII 06 12 43 33.3±.42	53.7N	161.6E	39±3.4	4.6b,5.5L			

KRSC Felt I=II M. Shipunskiy
EIDC Error ellipse is semi-major=14.4km semi-minor=9.1km azimuth=147

(218) Near east coast of Kamchatka

ISC	**XII 06 19 47 41.9**±.44	**54.14N**±.029	**160.81E**±.045	**60**±3.8	**5.3b**	**391**	**1-150**	
BJI	XII 06 19 47 37.5	54.51N	160.59E	28	5.2b,5.0s		**¶97xii1510**	
NEIC	XII 06 19 47 38.7	54.18N	160.88E	33	5.5b,4.7s			
MOS	XII 06 19 47 39.0	54.4N	160.9E	31	5.6b			
KRSC	XII 06 19 47 40.8	54.04N	161.30E	56	5.1b			
HRVD	XII 06 19 47 45.1±.4	53.84N±.04	161.20E±.07	64±3.1				
EIDC	XII 06 19 47 46.1±3.15	54.2N	160.8E	83±29.0	4.8b,4.4s			

NEIC Mw5.2(HRV).
KRSC Felt I=IV M. Shipunskiy
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c42; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.77±.28; $M_{\theta\theta}$−3.29±.38; $M_{\phi\phi}$−3.48±.46; $M_{r\theta}$2.95±.49; $M_{r\phi}$3.33±.47; $M_{\theta\phi}$−3.29±.40. Principal Axes: T 8.11,Plg73°,Azm310°; N −0.10, Plg1°,Azm43°; P −8.01,Plg17°,Azm134°. Best double couple: $M_0$8.1×10^{16}Nm, NP1:ϕ_S225°, δ28°,λ92°. NP2:ϕ_S43°,δ62°,λ89°.
EIDC Error ellipse is semi-major=16.8km semi-minor=10.1km azimuth=147

(378) Pyrenees

ISC	**XII 06 20 32 58.8**±.39	**43.51N**±.027	**0.61W**±.035	**11**±3.5		**78**	**0-8**	
NEIC	XII 06 20 32 58.8	43.53N	0.63W	10			**¶97xii1517**	
MDD	XII 06 20 33 00.3	43.5N	0.6W	0	3.0b			
STR	XII 06 20 33 00.7	43.44N	0.63W	3	3.5L			
LDG	XII 06 20 33 01.0	43.4N	0.7W		3.4L			

PIST Felt I=III MSK at Lacq, oilfield induced

(228) Near east coast of Honshū

ISC	**XII 06 23 02 47.7**±.47	**35.59N**±.056	**140.02E**±.079	**58**±4.8	**4.0b**	**36**	**0-92**	
NEIC	XII 06 23 02 44.5	35.50N	140.07E	33	4.5b		**¶97xii1550**	
BJI	XII 06 23 02 45.5	35.50N	140.10E	33				
JMA	XII 06 23 02 47.0±.1	35.74N±.01	140.13E±.01	53±2	4.2			
EIDC	XII 06 23 02 50.2±1.41	35.5N	140.0E	70±14.7	3.6b,3.3s			

NEIC Felt I=V MM, Less reliable solution.
NEIC Felt I=III J1 in northwestern Chiba and southern Ibaraki Prefectures. Also felt III J1 in the Tokyo area.
JMA Nodal plane solution: N115, Score 97%. NP1:ϕ_S297°,δ56°,λ1°. NP2:ϕ_S205°,δ89°,λ147°. Principle axes: T Plg24°,Azm155°; N Plg56°,Azm25°; P Plg23°,Azm256°.
EIDC Error ellipse is semi-major=21.3km semi-minor=6.4km azimuth=68

(228) Near east coast of Honshū

ISC	**XII 06 23 03 42**±3.2	**35.8N**±.23	**140.2E**±.43	**45**		**6**	**0-1**	
JMA	XII 06 23 03 42.2±.2	35.75N±.01	140.12E±.01	45±3	3.7		**¶97xii1551**	

ISC Poorly determined
JMA Felt I=II J1

(228) Near east coast of Honshū

ISC	**XII 07 03 50 40.9**±.35	**37.69N**±.026	**141.57E**±.034	**91**±3.0	**5.2b**	**328**	**1-156**	
MOS	XII 07 03 50 34.6	37.7N	141.6E	33	5.8b,4.6s		**¶97xii1603**	
BJI	XII 07 03 50 38.6	37.79N	141.50E	69	5.4b,4.7s			
JMA	XII 07 03 50 40.3±.1	37.71N±.01	141.78E±.01	83±2	5.3			
NEIC	XII 07 03 50 40.4	37.70N	141.59E	87	5.3b			
EIDC	XII 07 03 50 40.5±.41	37.7N	141.6E	76±3.1	4.9b,4.2s			
HRVD	XII 07 03 50 42.2±.3	37.69N±.03	141.79E±.03	84±2.2				

NEIC Mw5.4(HRV). Felt I=VI MM.
NEIC Felt I=IV J1 in northern Miyagi Prefecture; III J1 in eastern Fukushima, western Iwate, southern Miyagi, northern Tochigi and eastern Yamagata Prefectures; II J1 in Ibaraki and southern Tochigi Prefectures.
EIDC Error ellipse is semi-major=12.7km semi-minor=8.1km azimuth=97
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c50; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.15±.03; $M_{\theta\theta}$0.25±.05; $M_{\phi\phi}$0.91±.06; $M_{r\theta}$0.08±.05; $M_{r\phi}$0.55±.05; $M_{\theta\phi}$0.15±.05. Principal Axes: T 1.08,Plg14°,Azm282°; N 0.21, Plg1°,Azm192°; P −1.29,Plg76°,Azm97°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S14°, δ31°,λ−88°. NP2:ϕ_S191°,δ59°,λ−91°.

(381) Central Italy

ISC	**XII 07 06 34 24.1**±.70	**43.00N**±.026	**12.88E**±.033	**7**±5.5	3.8b	**97**	**0-75**	
ROM	XII 07 06 34 23.7	43.0N	12.9E	6	3.6D		**¶97xii1635**	
LDG	XII 07 06 34 23.7	42.8N	13.1E		3.4L			
NEIC	XII 07 06 34 24.4	42.98N	12.85E	10				
EIDC	XII 07 06 34 27.0±3.82	43.2N	13.4E	0	3.9L,3.9b			
STR	XII 07 06 34 33.1	43.25N	12.28E	10	3.8L			

NEIC Felt I=V MCS in the epicentral area.
EIDC Error ellipse is semi-major=76.0km semi-minor=29.7km azimuth=51

(221) Kuril Islands

ISC	**XII 07 10 17 46.8**±.65	**43.17N**±.049	**146.78E**±.056	**65**±5.3	**4.6b**	**119**	**1-152**	
MOS	XII 07 10 17 42.9	43.1N	146.8E	33	4.9b		**¶97xii1675**	
BJI	XII 07 10 17 46.8	43.29N	146.70E	57	4.6b			
NEIC	XII 07 10 17 46.9	43.13N	146.76E	68	4.7b			
SKHL	XII 07 10 17 47.0	43.2N±.07	146.9E±.13	64±1				
JMA	XII 07 10 17 47.5±.2	43.13N±.02	146.73E±.03	63±3	4.5			
EIDC	XII 07 10 17 48.8±.45	43.3N	146.7E	68±4.0	4.1b,3.7s			

MOS Felt I=II MSK at Yuzshno–Kurilsk.
NEIC Felt I=II MSK at Yuzhno-Kurilsk, Kunashir. Also felt I J1 in eastern Hokkaido.
SKHL K10.5 Felt I=III MSK at Shikotan; I=II MSK at Juzhno–Kurilsk
EIDC Error ellipse is semi-major=13.5km semi-minor=11.5km azimuth=115

(235) Kyūshū

ISC	**XII 07 13 39 26**±1.2	**30.29N**±.042	**131.50E**±.049	**26**±8.4	**4.6b,4.2s**	**92**	**1-157**	
BJI	XII 07 13 39 26.9	29.96N	131.54E	48	4.7b,4.5s		**¶97xii1709**	
NEIC	XII 07 13 39 27.2	30.32N	131.47E	33	4.8b			
JMA	XII 07 13 39 27.7±.1	30.34N±.01	131.48E±.01	62±2	4.2			
MOS	XII 07 13 39 27.9	30.4N	131.6E	33	4.9b			
EIDC	XII 07 13 39 28.3±4.02	30.3N	131.5E	31±30.3	4.2b,4.6L			

NEIC Felt I=II J1.
NEIC Felt I=I J1 in southeastern Kagoshima Prefecture.
EIDC Error ellipse is semi-major=17.5km semi-minor=12.0km azimuth=96

(244) Taiwan

ISC	**XII 08 05 05 53.5**±.81	**23.66N**±.054	**120.70E**±.068	**13**±9.3		**10**	**0-1**	
TAP	XII 08 05 05 53.0	23.63N	120.71E	15	3.3L		**¶97xii1870**	

TAP Felt I=II J, I Chiayi

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(244) Taiwan						
ISC	**XII 08 06 12 29**±4.3	**24.4N**±.23	**121.8E**±.29	**8**		**4**	**0-1**
TAP	XII 08 06 12 28.4	24.48N	121.79E	8	2.4L		¶97xii1879
ISC	Poorly determined						
TAP	Felt I=III J						
	(383) Northwestern Balkan region						
ISC	**XII 08 08 30 59.0**±.64	**46.01N**±.049	**15.36E**±.064	**10**		**14**	**0-2**
NEIC	XII 08 08 30 59.2	45.99N	15.37E	10			¶97xii1893
LJU	XII 08 08 30 59.5	46.02N	15.3E	5			
NEIC	ML2.5(VIE), ML1.9(LJU)						
NEIC	Felt I=IV MSK at Sevnica, Slovenia.						
LJU	Felt I=IV EMS in Canje pri Blanci, Slovenia.						
	(216) Marianas						
ISC	**XII 08 13 42 24.3**±.70	**13.94N**±.053	**144.92E**±.073	**112**±6.7	**4.4b**	**65**	**0-144**
EIDC	XII 08 13 42 23.4±.70	14.0N	145.2E	97±5.8	4.1b		¶97xii1936
NEIC	XII 08 13 42 24.1	13.99N	144.84E	115	4.5b		
BJI	XII 08 13 42 24.9	14.23N	144.90E	98	4.8b		
EIDC	Error ellipse is semi−major=18.7km semi−minor=12.5km azimuth=92						
NEIC	Felt I=IV MM at Agana and Yigo; III MM at Dededo and Nimitz Hill, Guam. Also felt at Andersen AFB, Guam.						
	(377) Spain						
ISC	**XII 08 22 20 36.5**±.47	**38.60N**±.033	**6.08W**±.050	**8**		**31**	**1-7**
MDD	XII 08 22 20 38.4	38.6N	6.1W	8	2.9b		¶97xii2025
NEIC	Felt I=III MSK Ribera del Fresno, Villafranca de los Barros, Hornachos (after EHOR)						
	(533) United Kingdom						
ISC	**XII 08 23 56 02**±1.5	**57.05N**±.099	**4.6W**±.11	**6**±16		**11**	**0-1**
BGS	XII 08 23 56 03.4	57.10N	4.60W	7	2.3L		¶97xii2044
BGS	Felt I=IV MSK Fort Augustus						
	(45) California-Mexico border region						
ISC	**XII 09 01 10 15**±1.2	**32.4N**±.10	**115.33W**±.045	**6**	**3.6b**,3.1s	**47**	**0-38**
NEIC	XII 09 01 10 12.6	32.34N	115.26W	6	3.9b		¶97xii2064
EIDC	XII 09 01 10 12.7±2.38	32.1N	115.5W	0	3.6L,3.7b		
ECX	XII 09 01 10 12.9	32.41N	115.26W	1	4.5D		
NEIC	MD4.5(ECX), ML4.0(PAS). Felt, After PAS.						
NEIC	Felt at the Cerro Prieto Geothermal Plant and in the area south of Mexicali, Baja California, Mexico.						
EIDC	Error ellipse is semi−major=33.0km semi−minor=13.3km azimuth=37						
	(244) Taiwan						
ISC	**XII 09 01 10 27.7**±.63	**23.84N**±.054	**121.80E**±.055	**43**±19		**24**	**0-3**
TAP	XII 09 01 10 27.4	23.88N	121.73E	45	3.9L		¶97xii2065
JMA	XII 09 01 10 27.5±.3	24.08N±.04	121.78E±.02	87±4	3.6		
TAP	Felt I=III J, I Hwalien						
	(45) California-Mexico border region						
ECX	**XII 09 01 52 36.2**	**32.44N**	**115.22W**	**3**	**3.3D**		¶97xii2073
ECX	Felt in the Ejido Hidalgo, Mexicali Valley						
	(381) Central Italy						
ISC	**XII 09 03 27 25.1**±.63	**43.14N**±.045	**12.76E**±.056	**12**±5.6		**37**	**0-8**
NEIC	XII 09 03 27 23.6	43.05N	12.81E	10			¶97xii2091
ROM	XII 09 03 27 25.1	43.2N	12.8E	9	3.3D		
LDG	XII 09 03 27 27.0	43.0N	12.8E		3.0L		
NEIC	ML3.4(VIE)						
NEIC	Felt I=IV MCS in the epicentral area.						
	(228) Near east coast of Honshū						
ISC	**XII 09 06 49 41.4**±.65	**37.72N**±.057	**141.2E**±.11	**72**±6.9	**3.8b**	**23**	**0-90**
EIDC	XII 09 06 49 34.7±1.05	37.5N	141.7E	0	3.8b,4.0L		¶97xii2121
NEIC	XII 09 06 49 37.5	37.54N	141.62E	33			
JMA	XII 09 06 49 42.0±.1	37.73N±.00	141.14E±.01	67±1	4.0		
EIDC	Error ellipse is semi−major=33.8km semi−minor=20.8km azimuth=135						
NEIC	Less reliable solution.						
NEIC	Felt I=II J1 in southern Miyagi Prefecture.						
	(244) Taiwan						
ISC	**XII 09 13 51 35.7**±.59	**24.04N**±.036	**121.85E**±.061	**6**	**3.7b**	**28**	**0-83**
EIDC	XII 09 13 51 31.1±4.30	24.0N	119.5E	0	3.6b,3.9L		¶97xii2180
TAP	XII 09 13 51 37.5	24.12N	121.69E	6	4.1L		
EIDC	Error ellipse is semi−major=232.0km semi−minor=22.9km azimuth=92						
TAP	Felt I=III J Chiawan, I Hwalien						
	(244) Taiwan						
ISC	**XII 09 14 08 05.2**±.73	**24.08N**±.043	**121.78E**±.070	**5**	**3.7b**	**23**	**0-83**
EIDC	XII 09 14 08 00.9±2.29	22.7N	122.6E	0	3.5b,3.9L		¶97xii2182
TAP	XII 09 14 08 05.8	24.15N	121.67E	5	4.0L		
EIDC	Error ellipse is semi−major=93.7km semi−minor=27.6km azimuth=100						
TAP	Felt I=III J Chiawan, Hwalien						
	(124) Chile-Bolivia border region						
ISC	**XII 09 14 23 40.7**±.89	**20.25S**±.037	**68.31W**±.042	**92**±8.6	**5.4b**	**291**	**3-168**
MOS	XII 09 14 23 43.4	20.2S	68.3W	116	5.7b		¶97xii2188
BJI	XII 09 14 23 45.2	20.20S	68.40W	133			
NEIC	XII 09 14 23 45.2	20.24S	68.37W	133	5.7b		
EIDC	XII 09 14 23 47.7±.27	20.2S	68.4W	143±2.2	4.8b		
HRVD	XII 09 14 23 52.5±.3	20.14S±.04	68.70W±.04	152±1.4			
NEIC	Mw5.7(GS), Mw5.7(HRV)						
NEIC	Felt I=V MM at Guatacondo, IV MM at Tocopilla and III MM at Arica, Iquique and Quillagua, Chile. Also felt II MM at Arequipa, Peru.						
NEIC	Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}−0.30; $M_{\theta\theta}$−2.99; $M_{\phi\phi}$3.29; $M_{r\theta}$0.43; $M_{r\phi}$−2.05; $M_{\theta\phi}$1.70. Depth 147km; Principal axes: T 4.48,Plg22°,Azm102°; N −0.77,Plg61°, Azm324°; P −3.71,Plg17°,Azm199°. Best double couple: $M_0$4.1×10^{17}Nm; NP1:ϕ_S241°,δ62°, λ3°. NP2:ϕ_S149°,δ87°,λ152°.						
EIDC	Error ellipse is semi−major=11.8km semi−minor=8.0km azimuth=88						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c40; Mantle waves: s4,c4; Half duration: 1ŝ6. Moment tensor: Scale 10^{17}Nm; M_{rr}0.16±.09; $M_{\theta\theta}$−1.86±.12; $M_{\phi\phi}$1.70±.13; $M_{r\theta}$0.61±.09; $M_{r\phi}$−2.57±.10; $M_{\theta\phi}$2.08±.13. Principal Axes: T 3.93,Plg31°,Azm106°; N −0.27,Plg46°,Azm337°; P −3.66,Plg27°,Azm214°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S252°,δ46°,λ4°. NP2:ϕ_S160°,δ87°,λ136°.						
	(244) Taiwan						
ISC	**XII 09 14 45 22.6**±.94	**24.13N**±.050	**121.7E**±.10	**8**		**14**	**0-1**
TAP	XII 09 14 45 21.8	24.14N	121.68E	8	3.2L		¶97xii2190
TAP	Felt I=II J						
	(244) Taiwan						
ISC	**XII 09 20 29 17**±1.1	**24.12N**±.050	**121.7E**±.10	**6**±8.3		**15**	**0-1**
TAP	XII 09 20 29 16.9	24.16N	121.66E	7	3.4L		¶97xii2233
TAP	Felt I=II J						
	(244) Taiwan						
ISC	**XII 09 21 39 23.1**±.42	**24.51N**±.040	**121.94E**±.055	**42**±6.0	**3.7b**	**34**	**0-82**
BJI	XII 09 21 39 20.5	24.35N	122.05E	150			¶97xii2244
JMA	XII 09 21 39 22.0±.4	24.82N±.06	121.93E±.03	48	3.9		
TAP	XII 09 21 39 23.2	24.44N	121.88E	16	4.3L		
NEIC	XII 09 21 39 34.5	24.57N	121.62E	150	3.3b		
EIDC	XII 09 21 39 35.6±7.93	24.6N	121.6E	144±76.3	3.3b		
TAP	Felt I=III J, II Ilan						
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=48.9km semi−minor=18.5km azimuth=76						
	(115) Near coast of Peru						
ISC	**XII 10 07 46 24**±1.5	**16.0S**±.13	**73.6W**±.12	**69**±14	**4.0b**	**21**	**2-152**
NEIC	XII 10 07 46 22.1	16.04S	73.71W	52	4.3b		¶97xii2311
EIDC	XII 10 07 46 24.1±.55	16.1S	73.7W	52±4.3	3.9b,3.0s		
BJI	XII 10 07 46 28.1	16.00S	73.70W	52			
NEIC	Less reliable solution.						
NEIC	Felt I=II MM at Arequipa.						
EIDC	Error ellipse is semi−major=21.2km semi−minor=14.1km azimuth=55						
	(244) Taiwan						
ISC	**XII 10 13 11 41.1**±.87	**22.89N**±.048	**120.65E**±.068	**13**±9.1		**13**	**0-2**
TAP	XII 10 13 11 40.3	22.90N	120.65E	6	3.4L		¶97xii2359
TAP	Felt I=II J						
	(45) California-Mexico border region						
ISC	**XII 10 13 25 18**±1.3	**32.52N**±.098	**115.36W**±.047	**14**±7.2		**19**	**0-2**
NEIC	XII 10 13 25 18.5	32.47N	115.39W	6			¶97xii2361
NEIC	ML3.0(PAS), MD2.9(ECX). After PAS.						
NEIC	Felt in the Mexicali area, Baja California.						
	(103) Colombia						
ISC	**XII 10 20 12 14.2**±.40	**4.75N**±.032	**76.02W**±.049	**101**±4.7	**4.3b**	**96**	**0-151**
NEIC	XII 10 20 12 13.9	4.68N	76.07W	103	4.5b		¶97xii2420
BJI	XII 10 20 12 14.9	4.70N	76.10W	103			
EIDC	XII 10 20 12 19.0±5.21	4.6N	76.1W	134±48.8	4.0b,3.4s		
IGQ	XII 10 20 12 22.5	4.3N	76.4W	55	4.9b		
NEIC	MD4.6(UPA)						
NEIC	Felt in Risaralda and Valle del Cauca Departments.						
EIDC	Error ellipse is semi−major=23.3km semi−minor=12.8km azimuth=63						
BOG	Felt at Cali and Pereira						
	(221) Kuril Islands						
ISC	**XII 10 21 12 34.5**±.75	**43.66N**±.057	**147.22E**±.080	**69**±5.5	**4.5b**	**109**	**1-152**
NEIC	XII 10 21 12 33.3	43.67N	147.21E	59	4.9b		¶97xii2426
SKHL	XII 10 21 12 35.0	43.66N±.09	147.1E±.12	77±3			
EIDC	XII 10 21 12 35.1±.73	43.7N	147.2E	62±5.6	4.1b,3.4s		
MOS	XII 10 21 12 35.3	43.7N	147.1E	78	5.2b		
JMA	XII 10 21 12 35.4±.2	43.44N±.02	147.13E±.02	60±4	4.2		
BJI	XII 10 21 12 38.1	43.95N	146.29E	59	4.7b		
SKHL	K10.5 Felt I=III−IV MSK at Shikotan						
EIDC	Error ellipse is semi−major=13.2km semi−minor=11.2km azimuth=177						
	(98) Trinidad						
ISC	**XII 11 04 28 29.1**±.94	**10.61N**±.095	**61.94W**±.081	**53**±24		**14**	**0-5**
TRN	XII 11 04 28 29.7	10.6N	61.9W	46	3.6D		¶97xii2490
NEIC	XII 11 04 28 30.9	10.68N	61.83W	40			
TRN	Felt I=III MM Santa Cruz, Trinidad.						
NEIC	Single network solution.						
	(244) Taiwan						
ISC	**XII 11 05 34 12.8**±.80	**24.04N**±.056	**121.6E**±.10	**17**±8.4		**13**	**0-1**
TAP	XII 11 05 34 12.4	24.08N	121.53E	16	3.2L		¶97xii2499
TAP	Felt I=II J Hwalien						
	(243) Taiwan region						
ISC	**XII 11 06 01 47**±3.4	**23.0N**±.15	**121.6E**±.24	**6**		**6**	**0-1**
TAP	XII 11 06 01 46.8	22.94N	121.53E	6	3.0L		¶97xii2504
TAP	Felt I=II J						
	(103) Colombia						
ISC	**XII 11 07 56 29.7**±.23	**3.97N**±.020	**75.77W**±.020	**182**±2.5	**5.9b**	**765**	**0-174**
BJI	XII 11 07 56 28.8	3.90N	75.80W	178			¶97xii2519
NEIC	XII 11 07 56 28.8	3.93N	75.79W	178	6.0b		
MOS	XII 11 07 56 29.8	4.0N	75.8W	185	6.5b		
EIDC	XII 11 07 56 33.6±.46	4.0N	75.7W	209±3.4	5.2b		
HRVD	XII 11 07 56 35.8±.1	4.11N±.01	75.84W±.01	190±.5			
IGQ	XII 11 07 56 36.8	3.4N	76.6W	246	6.0b		
NEIC	Mw6.4(GS), Me6.1(GS). Damage.						
NEIC	Radiated energy from the P−wave first−motion solution: 3.0±0.6×10^{13}Nm/15						
NEIC	Mw 6.4 (HRV). Minor damage at Cali. Felt at Bogota, Ibague, Manizales, Medellin and Pereira.						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S250°,δ54°,λ45°. NP2:ϕ_S130°,δ55°,λ134°. Principal axes: T Plg55°,Azm99°; P Plg1°,Azm190°. Depth from broadband displacement seismograms.						
NEIC	Moment tensor solution: s34, scale 10^{18}Nm; M_{rr}2.33; $M_{\theta\theta}$−3.29; $M_{\phi\phi}$0.97; $M_{r\theta}$0.36; $M_{r\phi}$−1.96; $M_{\theta\phi}$1.24. Depth 183km; Principal axes: T 3.75,Plg53°,Azm96°; N 0.01,Plg35°, Azm295°; P −3.76,Plg9°,Azm198°. Best double couple: $M_0$3.8×10^{18}Nm; NP1:ϕ_S254°,δ47°, λ38°. NP2:ϕ_S136°,δ63°,λ130°.						
EIDC	Error ellipse is semi−major=13.9km semi−minor=8.6km azimuth=66						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c102; Mantle waves: s34,c76; Half duration: 3ŝ7. Moment tensor: Scale 10^{18}Nm; M_{rr}2.01±.03; $M_{\theta\theta}$−3.61±.03; $M_{\phi\phi}$1.60±.03; $M_{r\theta}$0.25±.02; $M_{r\phi}$−2.01±.03; $M_{\theta\phi}$1.49±.03. Principal Axes: T 3.92,Plg46°,Azm99°; N 0.19,Plg43°,Azm295°; P −4.11,Plg8°,Azm197°. Best double couple: $M_0$4.0×10^{18}Nm, NP1:ϕ_S249°,δ53°,λ31°. NP2:ϕ_S140°,δ66°,λ139°.						
BOG	Felt at Bogota and Medellin						
	(546) Austria						
ISC	**XII 12 01 28 18.3**±.55	**46.09N**±.047	**13.87E**±.056	**13**		**19**	**0-4**
ROM	XII 12 01 28 18.6	46.2N	14.0E	5	2.8D		¶97xii2679
LJU	XII 12 01 28 18.9	46.0N	13.8E	13			
NEIC	XII 12 01 28 19.7	45.99N	13.94E	5			
LJU	Felt I=IV EMS in Lozice, Zabce, Ajdovscina, Spodnja Kanomlja and Straza, Slovenia.						
NEIC	ML2.8(VIE), ML2.5(LJU).						
	(244) Taiwan						
ISC	**XII 12 06 52 56.6**±.48	**23.15N**±.041	**121.61E**±.051	**28**		**27**	**0-3**
BJI	XII 12 06 52 52.3	23.13N	121.60E	16	3.4L		¶97xii2706
TAP	XII 12 06 52 56.9	23.21N	121.60E	28	4.3L		
JMA	XII 12 06 52 58.1±.2	23.23N±.02	121.71E±.02	102			
TAP	Felt I=III J Chengkung, I Yuli						
	(115) Near coast of Peru						
ISC	**XII 12 07 15 07**±1.1	**13.68S**±.040	**76.32W**±.063	**41**±10	**5.3b,4.8s**	**178**	**2-173**
EIDC	XII 12 07 15 02.8±.60	13.7S	76.4W	0	5.1b,4.8s		¶97xii2711
NEIC	XII 12 07 15 06.8	13.70S	76.37W	38	5.4b,4.9s		
BJI	XII 12 07 15 08.4	13.97S	76.14W	45			
MOS	XII 12 07 15 08.5	13.6S	76.3W	55	5.6b		
HRVD	XII 12 07 15 09.9±.4	13.68S±.06	76.86W±.07	44±4.4			
EIDC	Error ellipse is semi−major=28.0km semi−minor=14.1km azimuth=55						
NEIC	Mw5.4(HRV)						
NEIC	Felt strongly at Pisco. Also felt at Chincha Alta, Ica and Lima.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c45; Half duration: 1ŝ2. Moment tensor: Scale 10^{16}Nm; M_{rr}7.78±.57; $M_{\theta\theta}$−2.99±.76; $M_{\phi\phi}$−4.79±.97; $M_{r\theta}$−0.87±1.16; $M_{r\phi}$−8.40±1.22; $M_{\theta\phi}$6.74±.68. Principal Axes: T 13.0,Plg56°,Azm117°; N −0.4,Plg28°,Azm336°; P −12.6,Plg18°,Azm236°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S291°,δ36°,λ39°. NP2:ϕ_S168°,δ68°,λ120°.						
	(507) Alabama						
ISC	**XII 12 08 42 18.6**±.46	**33.39N**±.058	**87.26W**±.038	**0**	**4.2b**	**55**	**2-143**
NEIC	XII 12 08 42 20.2	33.47N	87.31W	1	3.9b		¶97xii2719
EIDC	XII 12 08 42 20.6±.70	33.5N	87.2W	0	4.2b,4.0L		
NEIC	mbLg4.0(GS)						

NEIC Felt in the epicentral area. Probable mine collapse.
EIDC Error ellipse is semi−major=16.7km semi−minor=14.6km azimuth=23

(2) Southern Alaska

ISC	**XII**	**12 10 27 44.1**±.20	**61.26N**±.024	**150.79W**±.044	**71**±3.9	**4.0b**	**109**	**1-147**
BJI	XII	12 10 27 38.5	61.20N	150.90W	61	4.5b		**¶97xii2730**
EIDC	XII	12 10 27 45.3±2.10	61.3N	151.0W	65±18.8	3.8b,3.4s		
NEIC	XII	12 10 27 45.5	61.25N	150.86W	61	4.0b		

EIDC Error ellipse is semi−major=23.5km semi−minor=16.6km azimuth=26
NEIC M_L4.3(PMR), M_L4.0(AEIC). Felt, After AEIC.
NEIC Felt at Anchorage and Eagle River.

(162) South Island, New Zealand

ISC	**XII**	**12 11 49 38.3**±.86	**41.56S**±.065	**173.85E**±.091	**75**±16		**17**	**0-4**
WEL	XII	12 11 49 40.0	41.47S	173.80E	56	3.7L		**¶97xii2743**

WEL Felt I=IV MM rarangi

(123) Northern Chile

ISC	**XII**	**12 17 07 54**±1.1	**23.51S**±.048	**69.22W**±.067	**41**±11	**5.0b,4.0s**	**120**	**4-168**
MOS	XII	12 17 07 54.4	23.6S	69.2W	33	5.7b		**¶97xii2786**
BJI	XII	12 17 07 57.7	23.60S	69.50W	81			
NEIC	XII	12 17 07 57.7	23.64S	69.45W	81	5.0b		
EIDC	XII	12 17 07 58.4±.35	23.5S	69.4W	73±2.7	4.7b,4.0s		

NEIC Felt I=IV MM at Mejillones and III MM at Antofagasta, Calama, Taltal and Tocopilla.
EIDC Error ellipse is semi−major=20.1km semi−minor=12.4km azimuth=63

(244) Taiwan

ISC	**XII**	**12 22 37 27**±1.6	**24.23N**±.069	**121.8E**±.14	**22**±39		**14**	**0-1**
TAP	XII	12 22 37 27.1	24.26N	121.81E	19	3.3L		**¶97xii2835**

TAP Felt I=III J

(159) North Island, New Zealand

ISC	**XII**	**13 02 54 07.9**±.78	**39.80S**±.035	**174.61E**±.058	**29**±8.4	**3.3b**	**37**	**0-150**
EIDC	XII	13 02 54 02.8±2.19	39.8S	174.9E	0	3.4b		**¶97xii2865**
NEIC	XII	13 02 54 07.6	39.76S	174.58E	33			
WEL	XII	13 02 54 08.0	39.83S	174.69E	19	4.3L		

EIDC Error ellipse is semi−major=134.4km semi−minor=40.3km azimuth=27
NEIC M_L4.3(WEL). Felt.
WEL Felt I=IV MM Wanganui and Marton

(228) Near east coast of Honshū

ISC	**XII**	**13 06 45 31.2**±.43	**39.61N**±.039	**142.18E**±.055	**87**±3.5	**4.5b**	**126**	**0-149**
MOS	XII	13 06 45 24.4	39.4N	142.2E	33	5.4b		**¶97xii2904**
NEIC	XII	13 06 45 24.7	39.56N	142.16E	33	4.7b		
BJI	XII	13 06 45 25.8	39.45N	142.45E	51	4.8b,4.5s		
EIDC	XII	13 06 45 29.3±1.73	39.6N	142.2E	59±16.3	4.2b		
JMA	XII	13 06 45 30.5±.1	39.64N±.01	142.35E±.02	78±2	4.6		

NEIC Felt along the northeast coast of Honshu.
EIDC Error ellipse is semi−major=18.6km semi−minor=9.2km azimuth=97
JMA Felt I=III J1
JMA Nodal plane solution: N137, Score 93%. NP1:ϕ_S134°,δ24°,λ−89°. NP2:ϕ_S315°,δ66°,λ−90°. Principle axes: T Plg21°,Azm44°; N Plg0°,Azm314°; P Plg69°,Azm224°.

(227) Honshū

ISC	**XII**	**13 07 57 08.5**±.66	**38.45N**±.046	**140.76E**±.068	**8**±8.5		**12**	**0-3**
JMA	XII	13 07 57 08.9±.0	38.44N±.00	140.75E±.00	13±1	3.7		**¶97xii2914**

JMA Felt I=III J1
JMA Nodal plane solution: N38, Score 92%. NP1:ϕ_S150°,δ33°,λ37°. NP2:ϕ_S28°,δ71°,λ119°. Principle axes: T Plg56°,Azm333°; N Plg26°,Azm198°; P Plg21°,Azm97°.

(159) North Island, New Zealand

ISC	**XII**	**13 10 14 04.5**±.70	**40.17S**±.044	**176.81E**±.096	**54**±8.4	**3.7b**	**38**	**1-41**
NEIC	XII	13 10 14 04.4	40.11S	176.66E	100			**¶97xii2931**
WEL	XII	13 10 14 05.9	40.13S	176.76E	25	4.4L		
EIDC	XII	13 10 15 05.1±3.43	37.5S	168.5E	40±11.5	3.6b		

NEIC Single network solution.
WEL Felt I=IV MM Waipawa
EIDC Error ellipse is semi−major=153.1km semi−minor=44.7km azimuth=30

(235) Kyūshū

ISC	**XII**	**13 15 08 12.0**±.94	**31.86N**±.064	**130.29E**±.081	**6**±14		**8**	**0-1**
JMA	XII	13 15 08 12.4±.0	31.85N±.00	130.29E±.00	7±1	3.0		**¶97xii2961**

JMA Felt I=II J1

(235) Kyūshū

ISC	**XII**	**13 15 18 48.0**±.93	**31.86N**±.064	**130.29E**±.081	**8**±14		**8**	**0-1**
JMA	XII	13 15 18 48.4±.0	31.85N±.00	130.29E±.00	9±1	3.5		**¶97xii2963**

JMA Felt I=II J1

(230) Near south coast of Honshū

ISC	**XII**	**13 20 34 23.7**±.41	**34.89N**±.053	**137.51E**±.068	**53**±5.2	**4.0b**	**27**	**0-94**
EIDC	XII	13 20 34 18.0±1.13	34.8N	137.5E	0	3.7b		**¶97xii3015**
NEIC	XII	13 20 34 21.1	34.78N	137.18E	33	4.4b		
JMA	XII	13 20 34 24.2±.0	34.89N±.00	137.54E±.00	43±1	3.9		

EIDC Error ellipse is semi−major=35.1km semi−minor=20.0km azimuth=99
NEIC Less reliable solution.
JMA Felt I=III J1

(385) Straits of Gibraltar

ISC	**XII**	**13 20 37 08.3**±.84	**36.53N**±.049	**3.47W**±.053	**0**±6.5		**27**	**0-4**
MDD	XII	13 20 37 10.5	36.6N	3.5W	3	2.7b		**¶97xii3016**

NEIC Felt I=III MSK in Motril, Felt SW Castell de Ferro (after EGUA)

(244) Taiwan

ISC	**XII**	**13 21 18 49.5**±.89	**24.14N**±.047	**121.7E**±.10	**10**±7.1		**15**	**0-1**
TAP	XII	13 21 18 49.0	24.16N	121.66E	11	3.2L		**¶97xii3022**

TAP Felt I=III J

(228) Near east coast of Honshū

ISC	**XII**	**13 22 51 48.8**±.91	**39.26N**±.072	**142.4E**±.11	**30**	**3.9b**	**18**	**1-67**
EIDC	XII	13 22 51 45.8±1.15	39.1N	142.9E	0	4.0b,3.8L		**¶97xii3033**
JMA	XII	13 22 51 47.2±.2	39.24N±.01	142.50E±.02	30±3	4.4		
NEIC	XII	13 22 51 48.4	39.01N	142.87E	33			

EIDC Error ellipse is semi−major=31.2km semi−minor=20.0km azimuth=116
NEIC Felt I=II MM, Less reliable solution.
NEIC Felt I=I J1 in eastern Iwate Prefecture.

(233) Near south coast of Southern Honshū

ISC	**XII**	**14 03 22 45**±1.2	**34.02N**±.073	**135.23E**±.099	**12**±13		**7**	**0-1**
JMA	XII	14 03 22 45.6±.0	34.02N±.00	135.21E±.00	9±1	3.3		**¶97xii3074**

JMA Felt I=II J1

(244) Taiwan

ISC	**XII**	**14 16 13 47**±1.4	**24.41N**±.069	**121.8E**±.15	**5**±15		**8**	**0-1**
TAP	XII	14 16 13 46.3	24.42N	121.79E	11	2.5L		**¶97xii3167**

TAP Felt I=III J

(244) Taiwan

TAP	**XII**	**14 16 16 08.1**	**24.42N**	**121.76E**	**10**	**2.3L**		**¶97xii3168**

TAP Felt I=II J

(193) Solomon Islands

ISC	**XII**	**14 17 02 24**±1.2	**10.15S**±.047	**161.05E**±.060	**75**±11	**4.7b**	**88**	**1-148**
BJI	XII	14 17 02 23.1	9.64S	161.22E	54	5.0b,4.8s		**¶97xii3173**
NEIC	XII	14 17 02 23.3	10.13S	161.00E	66	5.0b		
EIDC	XII	14 17 02 24.4±.62	10.2S	161.1E	63±4.3	4.4b,4.1s		

EIDC Error ellipse is semi−major=17.4km semi−minor=14.0km azimuth=119
HNR Felt I=II MM at Honiara

(244) Taiwan

ISC	**XII**	**15 01 32 20**±1.0	**24.32N**±.063	**122.00E**±.060	**66**±19		**20**	**0-2**
TAP	XII	15 01 32 19.8	24.33N	122.04E	54	3.8L		**¶97xii3220**
JMA	XII	15 01 32 21.3±.4	24.69N±.06	122.19E±.03	69	3.2		

TAP Felt I=II J

(218) Near east coast of Kamchatka

KRSC	**XII**	**15 04 31 03.0**	**54.44N**	**161.79E**	**25**	**3.8b**		**¶97xii3243**

KRSC Felt I=III at Kronoki

(383) Northwestern Balkan region

ISC	**XII**	**15 10 56 13.4**±.49	**42.25N**±.029	**20.08E**±.030	**5**±3.7	**4.0b**	**108**	**0-92**
LDG	XII	15 10 56 11.1	42.2N	20.7E		4.3L		**¶97xii3275**
NEIC	XII	15 10 56 13.3	42.21N	20.04E	10	3.9b		
TIR	XII	15 10 56 14.3	42.34N	20.06E	8	3.5L		
EIDC	XII	15 10 56 14.7±.70	42.2N	20.1E	0	4.0b,4.2L		
PDG	XII	15 10 56 15.1	42.3N	20.1E	15	3.9D		

TIR Felt I=IV−V MSK at Department of Tropoje
EIDC Error ellipse is semi−major=20.3km semi−minor=13.9km azimuth=83

(135) Near coast of Central Chile

ISC	**XII**	**15 13 07 39.0**±.69	**34.30S**±.055	**71.64W**±.078	**63**±5.5	**5.0b**	**102**	**0-179**
BJI	XII	15 13 07 36.5	34.40S	71.90W	44			**¶97xii3291**
NEIC	XII	15 13 07 36.5	34.39S	71.86W	44	4.9b,4.2s		
EIDC	XII	15 13 07 37.8±.43	34.3S	71.7W	43±3.5	4.6b,5.1L		
GUC	XII	15 13 07 38.7	34.29S	71.76W	46	4.8D		

NEIC Felt I=V MM at Licanten, Pichilemu and Rancagua; IV MM at Curepto, Curico, Marchihue and San Fernando; III MM at Convento Viejo, Chimbarongo, San Antonio, Santiago, Talca and Valparaiso; II MM at Linares and Papudo; I MM at Parral and San Javier.
EIDC Error ellipse is semi−major=21.9km semi−minor=15.4km azimuth=83

(676) Alaska

ISC	**XII**	**15 14 22 35.5**±.40	**64.50N**±.065	**162.2W**±.10	**25**	**4.3b**,4.4s	**57**	**1-77**
BJI	XII	15 14 22 33.1	64.60N	162.70W	25	4.5b,4.9s		**¶97xii3296**
NEIC	XII	15 14 22 33.1	64.56N	162.67W	25	4.5b		
EIDC	XII	15 14 22 33.7±.80	64.7N	162.4W	0	4.1b,4.2L		

NEIC M_L4.8(AEIC)
NEIC Felt strongly at Elim and Golovin. Also felt at Koyuk, Nome and White Mountain.
EIDC Error ellipse is semi−major=28.4km semi−minor=12.4km azimuth=12

(123) Northern Chile

ISC	**XII**	**15 14 27 55**±1.0	**24.29S**±.052	**69.23W**±.066	**70**±10	**4.8b**	**93**	**3-171**
BJI	XII	15 14 27 56.1	24.40S	69.50W	82	5.4s		**¶97xii3297**
NEIC	XII	15 14 27 56.1	24.38S	69.52W	82	5.0b		
EIDC	XII	15 14 27 57.4±.38	24.2S	69.4W	83±3.0	4.6b,3.9s		

NEIC Felt I=III MM at Antofagasta, Calama, Chuquicamata, Mejillones, Sierra Gorda and Tocopilla.
EIDC Error ellipse is semi−major=21.6km semi−minor=15.1km azimuth=56

(244) Taiwan

ISC	**XII**	**15 16 26 43.9**±.51	**24.68N**±.035	**121.91E**±.045	**8**		**24**	**0-3**
TAP	XII	15 16 26 43.4	24.65N	121.86E	8	3.7L		**¶97xii3310**
JMA	XII	15 16 26 45.4±.5	25.05N±.05	122.12E±.04	28	3.2		
BJI	XII	15 16 26 46.0	24.71N	121.62E	120			

TAP Felt I=III J Suao, Ilan

(35) Near coast of Northern California

ISC	**XII**	**15 22 42 40**±1.5	**40.26N**±.039	**124.5W**±.12	**21**±11	**3.7b**,3.3s	**41**	**1-68**
EIDC	XII	15 22 42 40.0±2.43	40.4N	124.6W	0	3.8b,3.9L		**¶97xii3352**
NEIC	XII	15 22 42 42.1	40.31N	124.55W	22			

EIDC Error ellipse is semi−major=44.0km semi−minor=26.5km azimuth=34
NEIC M_W4.2(BRK), M_L4.1(GM). Felt, After GM−P.
NEIC ML 4.1 (BRK). Felt at Arcata, Carlotta, Cutten, Ettersburg, Eureka, Ferndale, Fortuna, Holmes, Honeydew, Loleta, Petrolia and Rio Dell.

(218) Near east coast of Kamchatka

ISC	**XII**	**16 15 37 15.2**±.48	**54.55N**±.048	**161.62E**±.091	**52**±4.7	**4.3b**	**59**	**0-85**
MOS	XII	16 15 37 13.3	54.7N	161.6E	31	4.8b		**¶97xii3472**
NEIC	XII	16 15 37 13.5	54.73N	161.56E	33	4.6b		
EIDC	XII	16 15 37 15.3±.59	54.6N	161.4E	39±4.8	4.0b		
KRSC	XII	16 15 37 16.0	54.53N	161.61E	38	4.5b		

EIDC Error ellipse is semi−major=21.2km semi−minor=14.5km azimuth=117
KRSC Felt I=V Kronoki

(244) Taiwan

ISC	**XII**	**16 18 11 55**±2.0	**24.47N**±.077	**121.9E**±.20	**24**±15		**11**	**0-1**
TAP	XII	16 18 11 55.0	24.52N	121.84E	22	2.7L		**¶97xii3484**

TAP Felt I=II J Suao

(6) Rat Islands

ISC	**XII**	**17 04 38 52**±1.4	**51.17N**±.032	**178.83E**±.028	**22**±9.7	**5.7b,6.5s**	**567**	**3-160**
BJI	XII	17 04 38 49.9	51.30N	178.93E	20	5.9b,6.6s		**¶97xii3551**
EIDC	XII	17 04 38 49.9±.48	51.2N	178.9E	0	5.4b,6.5s		
MOS	XII	17 04 38 50.8	51.3N	178.9E	14	6.1b,6.7s		
NEIC	XII	17 04 38 51.4	51.19N	178.87E	20	5.8b,6.5s		
HRVD	XII	17 04 38 58.3±.1	51.25N±.01	178.92E±.01	22			

EIDC Error ellipse is semi−major=15.8km semi−minor=9.7km azimuth=170
NEIC Mw6.6(HRV), Me6.2(GS). Felt I=IV MM.
NEIC Radiated energy from the P−wave first−motion solution: 4.1±0.8×10^{13}Nm/23
NEIC Mw 6.5 (GS). Ms 6.4 (BRK). ML 6.4 (PMR). Felt I=IV MM on Adak. Mo=1.2×10^{19}Nm (PPT).
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S255°,δ20°,λ105°. NP2:ϕ_S59°,δ71°,λ85°. Principal axes: T Plg64°,Azm320°; P Plg26°,Azm153°. Two events about 1.5 seconds apart. Depths 19 and 18 km, respectively, from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s55, scale 10^{18}Nm; M_{rr}3.08; $M_{\theta\theta}$−1.40; $M_{\phi\phi}$−1.68; $M_{r\theta}$4.82; $M_{r\phi}$2.32; $M_{\theta\phi}$−0.68. Depth 20km; Principal axes: T 6.48,Plg58°,Azm338°; N −1.06,Plg5°, Azm240°; P −5.42,Plg32°,Azm147°. Best double couple: $M_0$6.0×10^{18}Nm; NP1:ϕ_S219°,δ14°, λ68°. NP2:ϕ_S62°,δ77°,λ95°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c125; Mantle waves: s44,c99; Half duration: 5±1. Moment tensor: Scale 10^{18}Nm; M_{rr}6.68±.04; $M_{\theta\theta}$−7.13±.04; $M_{\phi\phi}$0.45±.04; $M_{r\theta}$6.60±.12; $M_{r\phi}$2.21±.11; $M_{\theta\phi}$−1.51±.04. Principal Axes: T 9.6,Plg67°,Azm335°; N 0.7,Plg4°,Azm75°; P −10.2,Plg22°,Azm167°. Best double couple: $M_0$9.9×10^{18}Nm, NP1:ϕ_S266°,δ23°,λ101°. NP2:ϕ_S73°,δ67°,λ85°.

(718) Hindu Kush region

ISC	**XII**	**17 05 51 29.6**±.33	**36.42N**±.023	**70.79E**±.020	**210**±3.8	**5.3b**	**590**	**3-150**
NEIC	XII	17 05 51 29.2	36.39N	70.77E	207	5.5b		**¶97xii3561**
BJI	XII	17 05 51 29.4	36.56N	70.76E	205	5.6b		
MOS	XII	17 05 51 29.5	36.5N	70.8E	204	5.7b		
EIDC	XII	17 05 51 31.7±.40	36.4N	70.8E	215±3.0	5.4b		
NDI	XII	17 05 51 36	36.50N	73.10E	96	5.3b		
HRVD	XII	17 05 51 36.2±.2	36.53N±.02	70.62E±.02	224±1.4			

NEIC Mw6.3(HRV). Felt.
MOS Felt I=IV MSK at Samarkand; I=III−IV at Tashkent; I=III at Fergana; I=II−III at Djambul, Chimkent.
EIDC Error ellipse is semi−major=9.4km semi−minor=7.3km azimuth=35
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c79; Mantle waves: s37,c64; Half duration: 3±4. Moment tensor: Scale 10^{18}Nm; M_{rr}1.97±.04; $M_{\theta\theta}$−1.80±.06; $M_{\phi\phi}$−0.17±.06; $M_{r\theta}$2.36±.04; $M_{r\phi}$−0.71±.04; $M_{\theta\phi}$0.61±.07. Principal Axes: T 3.15,Plg64°,Azm16°; N 0.03,Plg1°,Azm107°; P −3.19,Plg26°,Azm198°. Best double couple: $M_0$3.2×10^{18}Nm, NP1:ϕ_S289°,δ19°,λ92°. NP2:ϕ_S107°,δ71°,λ89°.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(218) Near east coast of Kamchatka						
ISC	**XII 17 07 13 44.8**±.61	**54.58N**±.061	**162.0E**±.12	**42**±7.4	**4.1b**	**28**	**0-85**
MOS	XII 17 07 13 44.5	54.6N	162.0E	33	4.7b		**¶97xii3570**
KRSC	XII 17 07 13 44.8	54.56N	161.95E	32	4.5b		
NEIC	XII 17 07 13 45.1	54.96N	161.77E	33	4.5b		
EIDC	XII 17 07 13 46.7±1.07	54.9N	161.7E	31±4.7	3.9b,4.6L		
KRSC	Felt I=IV Kronoki						
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=28.0km semi−minor=17.5km azimuth=171						
	(6) Rat Islands						
ISC	**XII 17 11 45 11**±1.1	**51.21N**±.054	**179.02E**±.037	**49**±9.6	**5.0b,5.0s**	**218**	**3-150**
BJI	XII 17 11 45 08.2	51.15N	179.09E	36	5.2b,5.2s		**¶97xii3598**
NEIC	XII 17 11 45 09.0	51.21N	178.99E	33	5.0b,5.0s		
MOS	XII 17 11 45 09.1	51.1N	179.1E	33	5.7b,5.0s		
EIDC	XII 17 11 45 09.7±.54	51.2N	179.1E	30±2.7	4.6b,4.8s		
HRVD	XII 17 11 45 13.6±.6	51.15N±.07	179.51E±.14	15			
NEIC	Mw5.5(HRV)						
NEIC	Felt on Adak.						
EIDC	Error ellipse is semi−major=15.4km semi−minor=10.1km azimuth=172						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c41; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.24±.09; $M_{\theta\theta}$−1.31±.08; $M_{\phi\phi}$0.07±.09; $M_{r\theta}$1.00±.40; $M_{r\phi}$0.08±.34; $M_{\theta\phi}$−0.47±.13. Principal Axes: T 1.59,Plg70°,Azm10°; N 0.19, Plg8°,Azm257°; P −1.77,Plg18°,Azm165°. Best double couple: $M_0$1.7×10^{17}Nm, NP1: ϕ_S243°,δ28°,λ73°. NP2:ϕ_S81°,δ64°,λ99°.						
	(135) Near coast of Central Chile						
ISC	**XII 17 14 33 17**±4.2	**32.7S**±.24	**71.5W**±.23	**20**		**14**	**1-2**
NEIC	XII 17 14 33 16.8	32.68S	71.50W	20			**¶97xii3616**
GUC	XII 17 14 33 17.9	32.71S	71.45W	24	4.3D		
NEIC	Single network solution.						
NEIC	Felt I=III MM at Limache, Petorca, Quillota, Quilpue, Valparaiso, Vina del Mar and Zapallar.						
	(162) South Island, New Zealand						
ISC	**XII 17 16 08 11.4**±.99	**41.07S**±.071	**173.1E**±.12	**170**±14		**28**	**0-5**
NEIC	XII 17 16 08 11.5	41.05S	173.06E	166			**¶97xii3628**
WEL	XII 17 16 08 14.5	41.05S	173.15E	142	4.7L		
NEIC	Single network solution.						
NEIC	Felt at Lower Hutt on the North Island.						
WEL	Felt I=IV MM Wellington to Blenheim						
	(378) Pyrenees						
ISC	**XII 17 17 05 46.4**±.41	**43.17N**±.033	**0.41W**±.039	**11**±4.1		**45**	**0-6**
NEIC	XII 17 17 05 46.3	43.21N	0.41W	5			**¶97xii3636**
STR	XII 17 17 05 47.4	43.1N	0.42W	5	3.6L		
LDG	XII 17 17 05 47.7	43.1N	0.4W		3.6L		
MDD	XII 17 17 05 48.0	43.1N	0.4W	1	3.0b		
NEIC	Felt I=III MM in the Ossau Valley, France.						
	(662) Sakhalin						
ISC	**XII 17 20 09 44**±1.1	**47.67N**±.097	**142.0E**±.27	**8**	**3.5b,**3.0s	**10**	**1-83**
SKHL	XII 17 20 09 40.9	47.51N±.07	142.45E±.41	8±2			**¶97xii3656**
EIDC	XII 17 20 09 44.2±1.09	47.5N	142.2E	0	3.4b,3.1s		
SKHL	K8.3 Felt I=IV−V at Bikov, IV at Chekhov, II−III Sinegorsk						
EIDC	Error ellipse is semi−major=32.3km semi−minor=23.2km azimuth=94						
	(159) North Island, New Zealand						
ISC	**XII 18 00 37 58.1**±.81	**38.28S**±.050	**176.26E**±.074	**2**±11		**12**	**0-2**
WEL	XII 18 00 37 58.0	38.24S	176.27E	5	4.0L		**¶97xii3686**
WEL	Felt I=IV MM Rotorua						
	(274) Southern Sumatera						
ISC	**XII 18 05 46 55**±3.3	**2.00S**±.034	**99.57E**±.042	**14**±20	**5.3b,5.4s**	**257**	**5-159**
EIDC	XII 18 05 46 54.1±.48	1.9S	99.4E	0	5.0b,5.4s		**¶97xii3717**
KLM	XII 18 05 46 57	1.9S	99.6E	33	4.8L		
MOS	XII 18 05 46 57.2	1.9S	99.6E	32	5.9b,5.4s		
NEIC	XII 18 05 46 57.2	1.95S	99.62E	33	5.3b,5.5s		
BJI	XII 18 05 46 57.4	2.12S	99.58E	44	5.5b,5.6s		
HRVD	XII 18 05 47 00.9±.3	1.90S	99.60E	15			
EIDC	Error ellipse is semi−major=18.3km semi−minor=11.0km azimuth=67						
KLM	MB5.3						
NEIC	Mw5.7(HRV), Mw5.6(GS)						
NEIC	Felt I=IV MM at Padang.						
NEIC	Moment tensor solution: s12, scale 10^{17}Nm; M_{rr}1.04; $M_{\theta\theta}$−1.60; $M_{\phi\phi}$0.56; $M_{r\theta}$1.69; $M_{r\phi}$−1.10; $M_{\theta\phi}$−0.13. Depth 19km; Principal axes: T 2.45,Plg53°,Azm55°; N 0.02,Plg23°, Azm291°; P −2.47,Plg28°,Azm189°. Best double couple: $M_0$2.5×10^{17}Nm; NP1:ϕ_S236°,δ27°, λ32°. NP2:ϕ_S117°,δ76°,λ113°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c35; Mantle waves: s1,c1; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.24±.10; $M_{\theta\theta}$−0.81±.06; $M_{\phi\phi}$1.05±.14; $M_{r\theta}$3.44±.13; $M_{r\phi}$−2.70±.17; $M_{\theta\phi}$0.16±.08. Principal Axes: T 4.23,Plg44°,Azm51°; N 0.47,Plg11°,Azm310°; P −4.69,Plg44°,Azm209°. Best double couple: $M_0$4.5×10^{17}Nm, NP1:ϕ_S219°,δ11°,λ−1°. NP2:ϕ_S310°,δ90°,λ−101°.						
	(144) Near coast of Southern Chile						
ISC	**XII 18 12 30 03.9**±.41	**41.79S**±.052	**73.1W**±.12	**47**±.6*	**4.8b,4.6s**	**74**	**2-168**
NEIC	XII 18 12 30 03.4	41.82S	73.04W	48	5.1b		**¶97xii3764**
EIDC	XII 18 12 30 05.8±.41	41.9S	73.2W	50±3.0	4.6b,4.6s		
HRVD	XII 18 12 30 07.4±.6	41.99S±.07	72.92W±.16	44±7.7			
NEIC	Mw5.2(HRV)						
NEIC	Felt I=V MM at Castro; IV MM at Ancud, Chacao, Puerto Montt, Puerto Varas and Quemchi; III MM at Osorno and Valdivia.						
EIDC	Error ellipse is semi−major=18.7km semi−minor=14.6km azimuth=52						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.34±.55; $M_{\theta\theta}$−3.69±.51; $M_{\phi\phi}$0.35±.84; $M_{r\theta}$−2.89±.86; $M_{r\phi}$4.64±.91; $M_{\theta\phi}$2.57±.82. Principal Axes: T 6.80,Plg56°,Azm261°; N 0.38, Plg21°,Azm136°; P −7.18,Plg26°,Azm35°. Best double couple: $M_0$7.0×10^{16}Nm, NP1:ϕ_S87°, δ27°,λ37°. NP2:ϕ_S323°,δ74°,λ112°.						
	(383) Northwestern Balkan region						
ISC	**XII 18 19 14 13.7**±.61	**42.33N**±.034	**20.16E**±.042	**3**±5.2		**54**	**0-11**
NEIC	XII 18 19 14 14.4	42.29N	20.16E	10			**¶97xii3808**
PDG	XII 18 19 14 15.2	42.3N	20.1E	20	3.3D		
TIR	XII 18 19 14 16.6	42.23N	20.03E		3.2L		
THE	XII 18 19 14 16.7	42.3N	20.3E	0	3.1L		
ATH	XII 18 19 14 36.4	39.60N	22.75E	10			
TIR	Felt I=IV MSK at B.Curri						
	(216) Marianas						
ISC	**XII 18 20 23 03**±2.5	**14.67N**±.027	**144.71E**±.035	**30**±17	**5.4b,5.4s**	**261**	**1-168**
NEIC	XII 18 20 23 02.8	14.71N	144.65E	33	5.5b,5.4s		**¶97xii3817**
MOS	XII 18 20 23 03.2	14.7N	144.7E	33	6.3b,5.3s		
BJI	XII 18 20 23 03.5	15.13N	144.27E	2	5.7b,5.3s		
EIDC	XII 18 20 23 03.5±.52	14.7N	144.9E	27±3.0	4.9b,5.3s		
HRVD	XII 18 20 23 05.2±.1	14.58N±.02	144.53E±.02	15			
NEIC	Mw5.8(HRV), Mw5.7(GS)						
NEIC	Felt on Saipan.						
NEIC	Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}−1.16; $M_{\theta\theta}$3.57; $M_{\phi\phi}$−2.42; $M_{r\theta}$1.91; $M_{r\phi}$−3.03; $M_{\theta\phi}$0.49. Depth 7km; Principal axes: T 4.30,Plg22°,Azm6°; N 0.88,Plg42°, Azm118°; P −5.18,Plg40°,Azm256°. Best double couple: $M_0$4.7×10^{17}Nm; NP1:ϕ_S49°,δ44°, λ−164°. NP2:ϕ_S307°,δ79°,λ−47°.						
EIDC	Error ellipse is semi−major=17.8km semi−minor=11.7km azimuth=90						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c93; Mantle waves: s5,c8; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}−5.18±.10; $M_{\theta\theta}$5.31±.10; $M_{\phi\phi}$−0.13±.15; $M_{r\theta}$1.76±.38; $M_{r\phi}$−1.35±.29; $M_{\theta\phi}$−2.79±.10. Principal Axes: T 6.87,Plg10°,Azm24°; N −1.24,Plg7°,Azm115°; P −5.63,Plg78°,Azm239°. Best double couple: $M_0$6.2×10^{17}Nm, NP1:ϕ_S105°,δ35°,λ−102°. NP2:ϕ_S300°,δ55°,λ−82°.						
	(193) Solomon Islands						
ISC	**XII 18 20 54 16**±1.3	**9.83S**±.066	**160.21E**±.096	**44**±11	**4.3b**	**33**	**0-165**
EIDC	XII 18 20 54 10.9±.73	9.9S	160.3E	0	4.3b		**¶97xii3826**
BJI	XII 18 20 54 13.6	9.56S	160.38E	25	4.8b		
NEIC	XII 18 20 54 14.6	9.76S	160.17E	33	4.3b		
EIDC	Error ellipse is semi−major=24.4km semi−minor=16.0km azimuth=115						
NEIC	Less reliable solution.						
HNR	Felt I=I MM at Honiara						
	(193) Solomon Islands						
ISC	**XII 18 21 01 40**±1.0	**9.9S**±.12	**160.4E**±.17	**33**	**3.7b**	**8**	**1-96**
EIDC	XII 18 21 01 36.2±1.15	9.7S	160.4E	0	3.8b		**¶97xii3827**
NEIC	XII 18 21 01 39.6	9.75S	160.28E	33	4.0b		
EIDC	Error ellipse is semi−major=40.5km semi−minor=24.3km azimuth=124						
NEIC	Poor solution.						
HNR	Felt I=I MM at Honiara						
	(193) Solomon Islands						
ISC	**XII 18 21 03 20**±1.3	**9.82S**±.044	**160.14E**±.054	**34**±11	**5.0b,4.6s**	**114**	**0-165**
EIDC	XII 18 21 03 16.0±.58	9.8S	160.3E	0	4.9b,5.1L		**¶97xii3828**
BJI	XII 18 21 03 19.3	9.64S	160.50E	34	5.1b,5.1s		
NEIC	XII 18 21 03 19.9	9.80S	160.13E	33	5.1b,4.5s		
MOS	XII 18 21 03 21.7	9.8S	160.1E	48	5.3b		
EIDC	Error ellipse is semi−major=21.9km semi−minor=14.9km azimuth=108						
HNR	Felt I=III MM at Honiara						
	(35) Near coast of Northern California						
ISC	**XII 18 21 19 33.9**±.58	**40.18N**±.027	**124.60W**±.075	**9**	**4.0b,**3.9s	**76**	**1-70**
EIDC	XII 18 21 19 35.1±1.64	40.2N	124.6W	0	3.8b,4.0s		**¶97xii3830**
NEIC	XII 18 21 19 36.0	40.30N	124.47W	9	4.6b		
EIDC	Error ellipse is semi−major=42.1km semi−minor=17.0km azimuth=46						
NEIC	Mw4.6(BRK), M_L4.5(BRK). Felt, After GM−P.						
NEIC	ML 4.4 (GM), , 4.4 (GS). Felt at Arcata, Eureka, Ferndale, Fortuna, Honeydew and Petrolia.						
	(235) Kyūshū						
ISC	**XII 18 22 39 38.3**±.92	**31.86N**±.064	**130.29E**±.081	**7**±14		**8**	**0-1**
JMA	XII 18 22 39 38.5±.0	31.85N±.00	130.29E±.00	7±1	3.2		**¶97xii3845**
JMA	Felt I=II J1						
	(218) Near east coast of Kamchatka						
ISC	**XII 19 00 42 01.3**±.56	**52.18N**±.053	**158.57E**±.074	**72**±4.4	**4.5b**	**103**	**0-145**
MOS	XII 19 00 41 51.8	51.8N	158.9E	33	4.8b		**¶97xii3864**
BJI	XII 19 00 41 55.8	52.30N	158.50E	24	4.3b		
NEIC	XII 19 00 41 55.8	52.26N	158.57E	24	4.9b		
EIDC	XII 19 00 41 57.6±.49	52.3N	158.6E	24±3.0	4.3b,3.5s		
KRSC	XII 19 00 42 01.7	52.12N	158.84E	42	5.0b		
EIDC	Error ellipse is semi−major=14.7km semi−minor=10.1km azimuth=139						
KRSC	Felt I=II−III Petropavlovsk, IV Gorodok PVO (M. Siamo), IV GMS Vodopadnaya, V Mayak Kruglyy						
	(244) Taiwan						
ISC	**XII 19 06 57 56.6**±.71	**24.30N**±.048	**121.6E**±.10	**24**±11		**15**	**0-1**
TAP	XII 19 06 57 56.0	24.34N	121.60E	23	3.1L		**¶97xii3909**
TAP	Felt I=III J						
	(219) Off east coast of Kamchatka						
ISC	**XII 19 09 37 44.4**±.57	**53.82N**±.041	**161.72E**±.054	**45**±5.0	**4.7b,4.6s**	**153**	**1-87**
BJI	XII 19 09 37 41.1	54.62N	161.20E	7	4.8b,4.9s		**¶97xii3923**
KRSC	XII 19 09 37 41.4	53.73N	162.08E	20	4.8b		
EIDC	XII 19 09 37 42.6±.70	53.9N	161.8E	17±3.6	4.5b,4.1s		
MOS	XII 19 09 37 42.8	53.8N	161.8E	32	5.1b,4.7s		
NEIC	XII 19 09 37 43.3	53.89N	161.79E	33	4.9b,4.4s		
KRSC	Felt I=IV Kronoki						
EIDC	Error ellipse is semi−major=16.3km semi−minor=10.8km azimuth=154						
	(226) Near west coast of Honshū						
ISC	**XII 19 13 07 55.5**±.58	**36.26N**±.041	**136.31E**±.045	**23**±4.7	**4.4b,**4.0s	**81**	**0-94**
BJI	XII 19 13 07 49.9	36.11N	136.91E	16	4.7b,4.3s		**¶97xii3969**
NEIC	XII 19 13 07 53.4	36.25N	136.11E	16	4.6b		
MOS	XII 19 13 07 53.5	36.1N	136.3E	15	5.2b		
EIDC	XII 19 13 07 55.0±.57	36.3N	136.2E	14±3.4	4.2b,4.2L		
JMA	XII 19 13 07 55.2±.0	36.32N±.00	136.22E±.01	12±1	4.4		
NEIC	Felt I=VI MM.						
NEIC	Felt I=IV J1 in western Fukui, II J1 in Toyama and I J1 in parts of Aichi, Kyoto and Nagano Prefectures.						
EIDC	Error ellipse is semi−major=13.6km semi−minor=11.7km azimuth=92						
JMA	Nodal plane solution: N142, Score 92%. NP1:ϕ_S31°,δ23°,λ85°. NP2:ϕ_S217°,δ67°,λ93°. Principle axes: T Plg68°,Azm130°; N Plg2°,Azm36°; P Plg22°,Azm305°.						
	(159) North Island, New Zealand						
ISC	**XII 19 17 21 14.6**±.49	**38.73S**±.053	**175.7E**±.10	**167**±6.0	**3.5b**	**59**	**0-156**
EIDC	XII 19 17 20 51.8±1.25	39.0S	176.8E	0	3.8b		**¶97xii4001**
NEIC	XII 19 17 21 15.2	38.70S	175.67E	158	3.6b		
WEL	XII 19 17 21 15.4	38.56S	175.80E	162	5.2L		
EIDC	Error ellipse is semi−major=72.0km semi−minor=33.3km azimuth=7						
WEL	Felt I=IV MM Waitarere Beach						
	(221) Kuril Islands						
ISC	**XII 21 04 40 45.0**±.57	**43.98N**±.056	**147.09E**±.073	**109**±4.8	**4.2b**	**83**	**1-149**
BJI	XII 21 04 40 42.9	43.34N	146.89E	99	4.9b		**¶97xii4211**
NEIC	XII 21 04 40 43.9	44.05N	147.00E	99	4.3b		
MOS	XII 21 04 40 44.5	43.9N	147.1E	108	4.6b		
SKHL	XII 21 04 40 45.0	43.9N±.10	147.1E±.10	100±10			
EIDC	XII 21 04 40 45.5±.52	44.0N	147.0E	101±4.7	3.9b		
JMA	XII 21 04 40 46.4±.2	43.74N±.01	147.03E±.02	101±2	4.0		
MOS	Felt I=III MSK at Uzno−Kurilsk.						
SKHL	K10.5 Felt I=III MSK at Juzhno−Kurilsk						
EIDC	Error ellipse is semi−major=20.4km semi−minor=12.3km azimuth=116						
	(243) Taiwan region						
ISC	**XII 21 05 16 20.2**±.53	**24.07N**±.037	**123.00E**±.039	**41**±5.6	**4.6b,4.5s**	**84**	**0-169**
EIDC	XII 21 05 16 15.8±.56	24.2N	123.1E	0	4.5b,4.3s		**¶97xii4218**
BJI	XII 21 05 16 18.7	24.13N	123.05E	29	4.5L,4.6b		
NEIC	XII 21 05 16 19.1	24.14N	123.06E	33	4.9b		
JMA	XII 21 05 16 19.9±.5	24.03N±.04	122.89E±.03	39±5	4.7		
EIDC	Error ellipse is semi−major=27.5km semi−minor=12.6km azimuth=74						
BJI	Ms4.4						
NEIC	Felt I=I J in the epicentral area.						
	(244) Taiwan						
ISC	**XII 21 14 52 18.0**±.60	**24.39N**±.035	**121.98E**±.054	**11**		**25**	**0-3**
TAP	XII 21 14 52 18.3	24.42N	121.88E	11	3.9L		**¶97xii4263**
JMA	XII 21 14 52 19.0±.5	24.77N±.07	122.04E±.04	54	3.4		
BJI	XII 21 14 52 25.2	24.93N	121.23E	5	3.1L		

TAP Felt I=IV J

(244) Taiwan

ISC	**XII 21 15 14 01**±2.0	**24.41N**±.074	**121.9E**±.20	**16**		**11**	**0-1**	
TAP	XII 21 15 14 00.4	24.42N	121.88E	16	2.7L			**¶97xii4267**
TAP	Felt I=II J							

(221) Kuril Islands

ISC	**XII 21 21 03 37.2**±.52	**43.24N**±.032	**146.41E**±.036	**52**±4.2	**5.2b,4.5s**	**400**	**1-154**	
EIDC	XII 21 21 03 31.2±.46	43.3N	146.3E	0	5.1b,4.3s			**¶97xii4303**
NEIC	XII 21 21 03 34.7	43.25N	146.40E	33	5.3b,4.6s			
BJI	XII 21 21 03 35.2	43.36N	146.63E	44	5.0b,4.5s			
MOS	XII 21 21 03 36.6	43.3N	146.4E	49	5.7b,4.4s			
SKHL	XII 21 21 03 37.0	43.1N±.14	146.6E±.16	55±1				
JMA	XII 21 21 03 37.1±.3	43.14N±.02	146.42E±.03	52±3	5.0			
HRVD	XII 21 21 03 38.2±1.1	43.19N±.13	147.05E±.10	58±8.5				

EIDC Error ellipse is semi−major=15.7km semi−minor=12.0km azimuth=104
NEIC Mw5.2(HRV)
NEIC Felt I=IV MSK on Shikotan. Also felt II J1 in eastern Hokkaido.
MOS Felt I=IV−V MSK at Uzno−Kurilsk; I=IV at Malokurilsk,Kunashir.
SKHL Felt I=IV MSK at Malokurilskoe
JMA Felt I= II J1
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c27; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.11±.30; $M_{\theta\theta}$0.11±.50; $M_{\phi\phi}$4.00±.53; $M_{r\theta}$0.57±.67; $M_{r\phi}$3.79±.80; $M_{\theta\phi}$−2.20±.43. Principal Axes: T 6.07,Plg19°,Azm252°; N −0.15, Plg19°,Azm349°; P −5.92,Plg63°,Azm120°. Best double couple: $M_0$6.0×10^{16}Nm, NP1: ϕ_S315°,δ31°,λ−128°. NP2:ϕ_S177°,δ66°,λ−70°.

(207) Eastern New Guinea region

ISC	**XII 22 02 05 51.6**±.48	**5.56S**±.024	**147.84E**±.025	**190**±4.7	**6.3b**	**911**	**2-164**	
NEIC	XII 22 02 05 50.0	5.50S	147.87E	179	6.3b,6.7s			**¶97xii4335**
MOS	XII 22 02 05 50.8	5.5S	147.9E	180	6.6b			
BJI	XII 22 02 05 51.5	5.79S	148.11E	209	6.2b			
EIDC	XII 22 02 05 56.9±.53	5.6S	147.8E	230±5.0	5.9b			
HRVD	XII 22 02 06 01.8±.1	5.56S±.01	148.05E±.01	197±.4				

NEIC Mw7.2(HRV), Me7.1(GS). Damage.
NEIC Radiated energy from the P−wave first−motion solution: 8.7±2.7×10^{14}Nm/11
NEIC Mw 7.0 (GS). Mb 6.4 (BRK). Some minor damage at Lae. Felt at Madang, Morobe, Port Moresby and on New Britain. Mo=5.6×10^{19}Nm (PPT).
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S190°,δ55°,λ−70°. NP2:ϕ_S338°,δ40°, λ−116°. Principal axes: T Plg8°,Azm266°; P Plg72°,Azm151°. Complex event observed on broadband displacement seismograms.
NEIC Moment tensor solution: s26, scale 10^{19}Nm; M_{rr}−3.80; $M_{\theta\theta}$−0.15; $M_{\phi\phi}$3.96; $M_{r\theta}$0.73; $M_{r\phi}$0.83; $M_{\theta\phi}$−0.43. Depth 164km; Principal axes: T 4.07,Plg6°,Azm265°; N −0.03,Plg12°, Azm356°; P −4.05,Plg77°,Azm150°. Best double couple: $M_0$4.1×10^{19}Nm; NP1:ϕ_S342°,δ41°, λ−108°. NP2:ϕ_S186°,δ52°,λ−75°.
EIDC Error ellipse is semi−major=17.1km semi−minor=11.0km azimuth=103
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c125; Mantle waves: s54,c145; Half duration: 8s7. Moment tensor: Scale 10^{19}Nm; M_{rr}−0.44±.03; $M_{\theta\theta}$−5.16±.03; $M_{\phi\phi}$5.60±.03; $M_{r\theta}$3.26±.02; $M_{r\phi}$0.55±.02; $M_{\theta\phi}$−0.20±.03. Principal Axes: T 5.65,Plg5°,Azm271°; N 1.19,Plg62°,Azm11°; P −6.84,Plg27°,Azm178°. Best double couple: $M_0$6.2×10^{19}Nm, NP1:ϕ_S318°,δ67°,λ−164°. NP2:ϕ_S221°,δ75°,λ−24°.

(243) Taiwan region

ISC	**XII 22 03 30 31**±3.0	**24.35N**±.061	**122.2E**±.21	**5**±13		**15**	**0-2**	
TAP	XII 22 03 30 33.5	24.43N	122.02E	12	3.2L			**¶97xii4345**
TAP	Felt I=III J							

(58) Near coast of Guerrero, Mexico

ISC	**XII 22 05 22 06.1**±.36	**17.31N**±.048	**101.04W**±.034	**10**	**5.1b,5.0s**	**202**	**1-150**	
BJI	XII 22 05 22 05.6	17.30N	101.00W	10				**¶97xii4358**
NEIC	XII 22 05 22 05.6	17.30N	101.04W	10	5.1b,5.0s			
MEX	XII 22 05 22 07.8	17.1N	101.2W	5	4.6D			
EIDC	XII 22 05 22 11.8±4.96	17.3N	101.0W	42±41.6	4.5b,5.2s			

NEIC M_D4.7(UNM)
NEIC Felt at Mexico City.
EIDC Error ellipse is semi−major=28.1km semi−minor=20.1km azimuth=31

(71) Near coast of Guatemala

ISC	**XII 22 10 03 44.9**±.84	**13.72N**±.047	**90.29W**±.042	**57**±7.8	**5.1b,5.5s**	**296**	**2-151**	
BJI	XII 22 10 03 45.1	13.70N	90.30W	59	6.2s			**¶97xii4398**
NEIC	XII 22 10 03 45.1	13.74N	90.32W	59	5.1b			
HRVD	XII 22 10 03 51.1±.1	13.62N±.01	90.84W±.02	56±1.3				
EIDC	XII 22 10 03 51.7±4.67	13.9N	90.2W	97±40.8	4.5b,5.5s			
MEX	XII 22 10 03 53.2	14.0N	90.8W	81	5.2D			

NEIC Mw6.1(HRV), M_D5.2(UNM)
NEIC Mw 6.0 (GS). Felt in western El Salvador and at San Salvador.
NEIC Moment tensor solution: s30, scale 10^{17}Nm; M_{rr}6.40; $M_{\theta\theta}$−1.10; $M_{\phi\phi}$−5.30; $M_{r\theta}$9.00; $M_{r\phi}$−6.10; $M_{\theta\phi}$3.70. Depth 49km; Principal axes: T 13.0,Plg58°,Azm20°; N −0.1,Plg13°, Azm132°; P −12.9,Plg29°,Azm229°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S351°,δ20°, λ131°. NP2:ϕ_S128°,δ75°,λ77°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c108; Mantle waves: s8,c10; Half duration: 2s7. Moment tensor: Scale 10^{17}Nm; M_{rr}5.46±.14; $M_{\theta\theta}$−8.52±.19; $M_{\phi\phi}$3.07±.24; $M_{r\theta}$9.06±.20; $M_{r\phi}$−7.90±.20; $M_{\theta\phi}$2.97±.17. Principal Axes: T 13.6,Plg54°,Azm64°; N 1.6,Plg20°,Azm304°; P −15.2,Plg29°,Azm203°. Best double couple: $M_0$1.4×10^{18}Nm, NP1:ϕ_S251°,δ24°,λ34°. NP2:ϕ_S129°,δ77°,λ111°.
EIDC Error ellipse is semi−major=24.1km semi−minor=15.5km azimuth=49

(218) Near east coast of Kamchatka

ISC	**XII 22 10 52 23**±2.4	**54.3N**±.10	**161.8E**±.24	**9**±14	3.1b	**11**	**0-42**	
KRSC	XII 22 10 52 19.5	54.26N	162.19E	5	3.8b			**¶97xii4408**
KRSC	Felt I=III Kronoki							

(71) Near coast of Guatemala

ISC	**XII 22 13 17 45**±2.1	**13.6N**±.11	**90.4W**±.13	**63**±22	**4.4b**	**37**	**2-147**	
NEIC	XII 22 13 17 46.5	13.65N	90.59W	73	4.6b			**¶97xii4427**
EIDC	XII 22 13 17 48.1±.68	13.9N	90.2W	64±3.5	3.9b,4.0s			
MEX	XII 22 13 17 53.4	14.1N	90.7W	13	5.0D			

NEIC Less reliable solution.
NEIC Felt in western El Salvador and at San Salvador.
EIDC Error ellipse is semi−major=24.3km semi−minor=14.4km azimuth=69

(228) Near east coast of Honshū

ISC	**XII 22 16 32 01.4**±.45	**40.12N**±.032	**142.27E**±.035	**55**±4.0	**5.3b,4.9s**	**413**	**0-154**	
JMA	XII 22 16 31 59.4±.2	40.17N±.00	142.50E±.02	36±2	5.1			**¶97xii4450**
BJI	XII 22 16 31 59.5	40.07N	142.40E	58	5.4b,5.0s			
MOS	XII 22 16 32 00.1	40.2N	142.3E	40	5.8b,4.9s			
NEIC	XII 22 16 32 00.2	40.13N	142.33E	46	5.3b,4.8s			
EIDC	XII 22 16 32 02.0±.42	40.1N	142.3E	47±3.5	4.7b,4.7s			
HRVD	XII 22 16 32 04.1±.4	40.10N±.05	142.44E±.05	43±3.9				

JMA Nodal plane solution: N72, Score 93%. NP1:ϕ_S197°,δ33°,λ70°. NP2:ϕ_S40°,δ59°,λ104°. Principle axes: T Plg73°,Azm342°; N Plg11°,Azm214°; P Plg13°,Azm121°.
NEIC Mw5.4(HRV). Felt I=V MM.
NEIC Felt I=III J1 in eastern Aomori Prefecture; II J1 in northern Miyagi and much of Iwate Prefectures; I J1 in eastern Akita Prefecture. Also felt I J1 in southern Hokkaido.
EIDC Error ellipse is semi−major=12.8km semi−minor=9.5km azimuth=99
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c51; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.01±.04; $M_{\theta\theta}$0.10±.07; $M_{\phi\phi}$−1.11±.07; $M_{r\theta}$0.37±.09; $M_{r\phi}$0.92±.10; $M_{\theta\phi}$−0.41±.06. Principal Axes: T 1.38,Plg69°,Azm298°; N 0.23, Plg3°,Azm199°; P −1.61,Plg21°,Azm108°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S192°,δ25°,λ82°. NP2:ϕ_S20°,δ66°,λ94°.

(12) Alaska Peninsula

ISC	**XII 22 19 05 00**±2.4	**54.76N**±.050	**160.94W**±.060	**2**±13	**5.2b,4.9s**	**291**	**1-150**	
BJI	XII 22 19 05 02.6	54.95N	160.62W	34	5.6b,5.4s			**¶97xii4470**
NEIC	XII 22 19 05 04.4	54.79N	160.83W	33	5.2b,4.9s			
MOS	XII 22 19 05 04.6	54.8N	160.8W	33	5.7b,4.9s			
HRVD	XII 22 19 05 06.6±.4	54.26N±.04	160.24W±.07	32±3.3				
EIDC	XII 22 19 05 06.7±3.15	54.8N	160.9W	46±29.6	4.8b,4.7s			

NEIC Mw5.5(HRV), M_L5.2(PMR)
NEIC Felt at Cold Bay, King Cove, Perryville and Sand Point.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c61; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.28±.06; $M_{\theta\theta}$−1.19±.06; $M_{\phi\phi}$−0.09±.08; $M_{r\theta}$0.93±.19; $M_{r\phi}$0.67±.17; $M_{\theta\phi}$−0.89±.09. Principal Axes: T 1.68,Plg70°,Azm313°; N 0.40, Plg5°,Azm58°; P −2.08,Plg19°,Azm150°. Best double couple: $M_0$1.9×10^{17}Nm, NP1:ϕ_S248°, δ27°,λ102°. NP2:ϕ_S55°,δ64°,λ84°.
EIDC Error ellipse is semi−major=17.8km semi−minor=11.9km azimuth=5

(224) Hokkaido region

ISC	**XII 22 19 08 03.8**±.25	**43.07N**±.026	**143.39E**±.030	**119**±2.2	**5.3b**	**459**	**0-156**	
MOS	XII 22 19 08 02.4	43.1N	143.4E	110	5.7b			**¶97xii4471**
BJI	XII 22 19 08 02.6	43.11N	143.41E	115	5.3b			
NEIC	XII 22 19 08 03.2	43.08N	143.38E	115	5.3b			
SKHL	XII 22 19 08 04.0	43.0N±.05	143.5E±.09	130±2				
JMA	XII 22 19 08 04.6±.1	42.98N±.01	143.49E±.01	113±2	5.1			
EIDC	XII 22 19 08 05.5±.47	43.1N	143.5E	125±3.7	5.1b			

NEIC Felt I=III J1 in southeastern Hokkaido and I J1 in eastern Aomori, northern Miyagi and much of Iwate Prefectures, Honshu.
SKHL $K_{11.5}$
JMA Nodal plane solution: N151, Score 97%. NP1:ϕ_S39°,δ65°,λ159°. NP2:ϕ_S139°,δ70°,λ27°. Principle axes: T Plg33°,Azm0°; N Plg57°,Azm173°; P Plg3°,Azm268°.
EIDC Error ellipse is semi−major=9.9km semi−minor=7.7km azimuth=79Multiple, mixed az

(243) Taiwan region

ISC	**XII 23 02 35 47.8**±.36	**23.98N**±.030	**122.38E**±.035	**45**±3.8	**4.3b,4.2s**	**90**	**1-91**	
TAP	XII 23 02 35 45.7	23.98N	122.33E	5	4.8L			**¶97xii4523**
JMA	XII 23 02 35 47.6±.5	24.09N±.04	122.33E±.03	40	4.4			
NEIC	XII 23 02 35 54.0	24.03N	122.30E	100	4.5b			
EIDC	XII 23 02 35 55.3±5.27	24.1N	122.3E	99±49.6	3.8b,4.3s			
BJI	XII 23 02 35 56.6	24.57N	122.05E	100	4.4b			
TAP	Felt I=II J							

EIDC Error ellipse is semi−major=26.3km semi−minor=14.4km azimuth=79

(228) Near east coast of Honshū

ISC	**XII 23 06 18 16.2**±.72	**36.18N**±.048	**140.93E**±.083	**43**±5.9	**3.9b**,3.4s	**42**	**0-91**	
JMA	XII 23 06 18 15.9±.1	36.24N±.01	140.93E±.02	42±2	4.2			**¶97xii4551**
NEIC	XII 23 06 18 16.4	36.09N	140.91E	48	4.0b			
EIDC	XII 23 06 18 18.6±.62	36.1N	141.0E	50±5.7	3.6b,3.1s			
JMA	Felt I=II J1							

JMA Nodal plane solution: N75, Score 97%. NP1:ϕ_S221°,δ30°,λ157°. NP2:ϕ_S333°,δ78°,λ62°. Principle axes: T Plg49°,Azm212°; N Plg27°,Azm338°; P Plg28°,Azm84°.
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=19.6km semi−minor=13.5km azimuth=86

(244) Taiwan

ISC	**XII 23 06 57 09.6**±.68	**22.83N**±.062	**120.77E**±.067	**29**±9.4		**12**	**0-1**	
TAP	XII 23 06 57 09.0	22.83N	120.80E	12	3.4L			**¶97xii4558**
TAP	Felt I=II J							

(226) Near west coast of Honshū

ISC	**XII 23 11 08 02**±1.4	**40.92N**±.051	**139.43E**±.091	**27**±13	**3.7b**	**22**	**1-76**	
EIDC	XII 23 11 07 59.5±.78	40.9N	139.7E	0	3.7b,3.9L			**¶97xii4588**
JMA	XII 23 11 08 00.8±.0	40.96N±.00	139.32E±.01	39±1	4.3			
NEIC	XII 23 11 08 02.2	40.84N	139.53E	33	3.5b			

EIDC Error ellipse is semi−major=25.8km semi−minor=16.6km azimuth=105
JMA Felt I=II J1

(218) Near east coast of Kamchatka

ISC	**XII 23 14 35 18.6**±.52	**54.49N**±.051	**161.6E**±.10	**49**±5.0	**4.0b**	**46**	**0-85**	
NEIC	XII 23 14 35 17.1	54.64N	161.48E	33	4.4b			**¶97xii4617**
MOS	XII 23 14 35 17.4	54.6N	161.5E	31	4.6b			
KRSC	XII 23 14 35 19.1	54.44N	161.67E	32	4.3b			
EIDC	XII 23 14 35 19.5±.76	54.6N	161.5E	36±5.4	3.8b,4.2L			

NEIC Less reliable solution.
KRSC Felt I=IV Kronoki
EIDC Error ellipse is semi−major=18.8km semi−minor=13.6km azimuth=143

(218) Near east coast of Kamchatka

ISC	**XII 23 15 59 34.7**±.68	**54.68N**±.062	**161.7E**±.16	**55**±6.6	**3.7b**	**24**	**0-82**	
NEIC	XII 23 15 59 32.8	54.83N	161.63E	33	4.2b			**¶97xii4625**
KRSC	XII 23 15 59 35.6	54.70N	161.63E	37	3.8b			
EIDC	XII 23 15 59 43.4±5.13	54.8N	161.7E	112±44.3	3.3b			

NEIC Poor solution.
KRSC Felt I=III Kronoki
EIDC Error ellipse is semi−major=30.8km semi−minor=24.5km azimuth=7

(244) Taiwan

ISC	**XII 24 13 25 17**±2.2	**24.41N**±.057	**122.0E**±.18	**11**±9.2		**13**	**0-1**	
TAP	XII 24 13 25 17.6	24.45N	121.87E	18	3.2L			**¶97xii4761**
TAP	Felt I=III J							

(235) Kyūshū

ISC	**XII 24 15 17 14.8**±.90	**31.88N**±.052	**130.29E**±.067	**2**±9.9		**11**	**0-19**	
JMA	XII 24 15 17 15.1±.0	31.84N±.00	130.29E±.00	7±1	3.9			**¶97xii4780**
EIDC	XII 24 15 17 17.5±2.39	31.9N	130.0E	0	3.6L			
JMA	Felt I=III J1							

EIDC Error ellipse is semi−major=32.4km semi−minor=23.3km azimuth=89

(502) Arkansas

NEIC	**XII 24 18 32 11.9**	**33.20N**	**92.75W**	**5**			**2-2**	
NEIC	mbLg2.6(GS). Felt, After MACR.							**¶97xii4804**
NEIC	Felt at El Dorado and Parkers Chapel.							

(235) Kyūshū

ISC	**XII 25 09 58 10.0**±.97	**31.85N**±.068	**130.28E**±.083	**6**±16		**7**	**0-1**	
JMA	XII 25 09 58 10.3±.0	31.84N±.00	130.29E±.00	7±1	3.4			**¶97xii4905**
JMA	Felt I=III J1							

(89) Mona Passage

ISC	**XII 26 00 48 24.6**±.42	**18.23N**±.038	**68.42W**±.039	**101**±6.4	**4.5b**	**113**	**0-150**	
NEIC	XII 26 00 48 24.1	18.18N	68.44W	94	4.7b			**¶97xii5017**
EIDC	XII 26 00 48 25.2±1.25	18.2N	68.5W	96±5.2	4.0b,3.3s			

NEIC M_D4.7(MPR). Felt.
EIDC Error ellipse is semi−major=31.9km semi−minor=15.1km azimuth=26

(219) Off east coast of Kamchatka

ISC	**XII 26 04 50 44.8**±.55	**53.76N**±.039	**161.85E**±.047	**41**±4.6	**4.9b,4.9s**	**274**	**1-87**	
EIDC	XII 26 04 50 41.7±.68	54.1N	161.8E	0	4.8b,5.0s			**¶97xii5049**
BJI	XII 26 04 50 42.4	53.80N	161.90E	33	5.0b,5.2s			
MOS	XII 26 04 50 43.5	53.9N	161.8E	28	5.4b,4.9s			
KRSC	XII 26 04 50 44.2	53.77N	161.96E	30	5.2b			
NEIC	XII 26 04 50 44.4	53.86N	161.98E	33	5.1b,4.5s			

EIDC Error ellipse is semi−major=21.0km semi−minor=10.7km azimuth=156
KRSC Felt I=III Kronoki

Agency	mo d h m s	Origin Time	φ °	λ °	h km	Mag	n	Δ-Rng °
	(219) Off east coast of Kamchatka							
ISC	**XII 26 05 02 29.0**±.18	**53.65N**±.037	**162.07E**±.041	**13**	**5.0b,5.0s**	**263**	**1-119**	
BJI	XII 26 05 02 27.1	53.50N	162.40E	33	4.8b,5.3s		**¶97xii5051**	
KRSC	XII 26 05 02 28.8	53.72N	162.09E	13	5.2b			
MOS	XII 26 05 02 32.0	53.9N	161.8E	38	5.1b,5.2s			
NEIC	XII 26 05 02 32.1	53.56N	162.36E	33	5.0b,4.6s			
EIDC	XII 26 05 02 34.3±3.06	53.9N	161.9E	42±29.1	4.5b,4.8s			
HRVD	XII 26 05 02 35.8±1.4	53.42N±.21	162.20E±.29	15				
KRSC	Felt I=III Kronoki							
NEIC	Mw5.3(HRV)							
NEIC	Felt I=II MSK at Petropavlovsk−Kamchatskiy.							
EIDC	Error ellipse is semi−major=15.9km semi−minor=10.0km azimuth=144							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c13; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.61±.63; $M_{\theta\theta}$0.30±.65; $M_{\phi\phi}$−3.91±.77; $M_{r\theta}$3.02±2.08; $M_{r\phi}$7.04±3.00; $M_{\theta\phi}$−1.90±.86. Principal Axes: T 8.18,Plg59°,Azm295°; N 1.02,Plg1°,Azm203°; P −9.21,Plg31°,Azm112°. Best double couple: $M_0$8.7×10^{16}Nm, NP1: ϕ_S198°,δ14°,λ85°. NP2:ϕ_S23°,δ76°,λ91°.							
	(219) Off east coast of Kamchatka							
ISC	**XII 26 05 49 19.7**±.74	**53.79N**±.052	**161.76E**±.098	**45**±6.6	**4.4b**,4.9s	**66**	**1-87**	
KRSC	XII 26 05 49 14.7	53.64N	162.14E	7	4.6b		**¶97xii5061**	
EIDC	XII 26 05 49 15.4±.61	54.0N	161.7E	0	4.3b,4.3s			
MOS	XII 26 05 49 18.4	53.8N	162.0E	33	5.0b			
NEIC	XII 26 05 49 18.7	53.95N	161.72E	33	4.8b			
EIDC	Error ellipse is semi−major=21.1km semi−minor=11.8km azimuth=148							
MOS	Felt I=II MSK at Petropavlovsk−Kamchatskiy.							
	(219) Off east coast of Kamchatka							
ISC	**XII 26 06 24 06**±1.1	**54.43N**±.036	**163.02E**±.045	**27**±7.6	**5.0b,4.7s**	**282**	**1-144**	
BJI	XII 26 06 24 04.2	54.50N	163.10E	33	4.8b,5.5s		**¶97xii5068**	
KRSC	XII 26 06 24 04.5	54.40N	163.39E	29	5.1b			
MOS	XII 26 06 24 07.0	54.5N	162.9E	35	5.5b,5.0s			
NEIC	XII 26 06 24 07.2	54.45N	163.14E	33	5.2b,4.5s			
EIDC	XII 26 06 24 08.0±.58	54.5N	163.1E	26±3.5	4.6b,4.4s			
MOS	Felt I=II MSK at Petropavlovsk−Kamchatskiy.							
EIDC	Error ellipse is semi−major=13.6km semi−minor=9.6km azimuth=132							
	(244) Taiwan							
ISC	**XII 26 08 33 22**±1.6	**24.34N**±.084	**121.8E**±.16	**4**±20		**9**	**0-1**	
TAP	XII 26 08 33 22.3	24.37N	121.75E	11	2.7L		**¶97xii5085**	
TAP	Felt I=III J							
	(235) Kyūshū							
ISC	**XII 26 13 12 09.8**±.94	**31.85N**±.064	**130.28E**±.081	**7**±14		**8**	**0-1**	
JMA	XII 26 13 12 10.1±.0	31.83N±.00	130.29E±.00	8±1	2.9		**¶97xii5127**	
JMA	Felt I=II J1							
	(127) Chile-Argentina border region							
ISC	**XII 26 15 35 02**±1.9	**32.8S**±.11	**70.4W**±.14	**125**±20		**17**	**0-5**	
NEIC	XII 26 15 35 04.5	32.85S	70.39W	100			**¶97xii5166**	
GUC	XII 26 15 35 05.5	32.88S	70.38W	92	4.1D			
NEIC	Less reliable solution.							
NEIC	Felt I=II MM at Santiago, Chile.							
	(233) Near south coast of Southern Honshū							
ISC	**XII 27 01 08 14.4**±.43	**34.12N**±.047	**135.06E**±.047	**11**	**4.1b**	**24**	**0-69**	
JMA	XII 27 01 08 14.8±.0	34.15N±.00	135.06E±.00	11±1	3.8		**¶97xii5219**	
NEIC	XII 27 01 08 17.1	34.12N	135.08E	33	4.0b			
EIDC	XII 27 01 08 20.5±2.84	34.2N	135.0E	46±30.1	3.6b,3.8L			
JMA	Nodal plane solution: N53, Score 94%. NP1:ϕ_S197°,δ36°,λ113°. NP2:ϕ_S351°,δ57°,λ75°. Principle axes: T Plg73°,Azm221°; N Plg13°,Azm358°; P Plg11°,Azm91°.							
NEIC	Less reliable solution.							
NEIC	Felt I=II J1 in northwestern Wakayama Prefecture.							
EIDC	Error ellipse is semi−major=23.7km semi−minor=19.6km azimuth=93							
	(330) Alma-Ata region							
ISC	**XII 27 04 21 00.8**±.21	**42.14N**±.027	**78.36E**±.046	**33**	**4.4b,4.1s**	**101**	**1-96**	
BJI	XII 27 04 21 00.7	42.25N	78.54E	18	4.7L,4.6b		**¶97xii5242**	
MOS	XII 27 04 21 01.6	42.3N	78.4E	33	4.8b,4.4s			
NEIC	XII 27 04 21 01.6	42.28N	78.33E	33	4.6b,4.0s			
NDI	XII 27 04 21 07.5	41.73N	78.38E	96	5.2b			
EIDC	XII 27 04 21 09.2±.60	42.2N	78.3E	90±4.9	4.0b,3.9s			
BJI	Ms4.4							
MOS	Felt I=II MSK at Alma−Ata.							
EIDC	Error ellipse is semi−major=18.2km semi−minor=11.5km azimuth=52							
	(244) Taiwan							
ISC	**XII 28 10 45 19**±1.3	**24.06N**±.048	**121.79E**±.093	**5**±8.1		**23**	**0-3**	
BJI	XII 28 10 45 12.3	23.87N	122.22E	18	3.4L		**¶97xii5443**	
TAP	XII 28 10 45 19.9	24.13N	121.68E	8	3.9L			
TAP	Felt I=III J							
	(546) Austria							
ISC	**XII 28 22 52 27.3**±.27	**47.16N**±.026	**10.06E**±.031	**10**		**73**	**0-7**	
SZGRF	XII 28 22 52 24.7	47.0N	10.0E	10	2.9L		**¶97xii5507**	
ZUR	XII 28 22 52 27.2	47.10N	10.05E	10	2.8L			
NEIC	XII 28 22 52 27.2	47.13N	10.07E	12				
LEDBW	XII 28 22 52 28.2	47.10N	10.10E	10	2.9L			
STR	XII 28 22 52 30.5	47.1N	9.87E	6	3.1L			
LDG	XII 28 22 52 30.9	47.2N	9.9E		3.0L			
ROM	XII 28 22 52 34.3	46.1N	10.3E	5	3.0D			
NEIC	$M_{L3.0}$(VIE)							
NEIC	ML 3.1 (GRF), 3.0 (LDG), 2.9 (FBB), 2.9 (FUR). Felt I=IV MSK at Tschagguns.							
	(244) Taiwan							
ISC	**XII 28 23 44 48**±1.2	**24.12N**±.061	**121.7E**±.13	**9**±8.9		**11**	**0-1**	
TAP	XII 28 23 44 48.2	24.16N	121.64E	5	2.8L		**¶97xii5513**	
TAP	Felt I=II J							
	(243) Taiwan region							
ISC	**XII 29 07 56 39.1**±.48	**21.80N**±.033	**120.54E**±.050	**35**±5.7	**4.2b**,3.8s	**64**	**0-85**	
EIDC	XII 29 07 56 35.8±.71	21.9N	120.7E	0	4.3b,4.3L		**¶97xii5558**	
BJI	XII 29 07 56 37.9	22.01N	120.34E	9	3.6L,4.5b			
NEIC	XII 29 07 56 38.7	21.88N	120.74E	33	4.3b			
TAP	XII 29 07 56 39.8	21.90N	120.57E	44	4.6L			
JMA	XII 29 07 56 41.2±.4	21.82N±.06	120.75E±.05	73	4.4			
EIDC	Error ellipse is semi−major=24.1km semi−minor=15.4km azimuth=70							
BJI	Ms4.2							
TAP	Felt I=III J Hengchun							
	(218) Near east coast of Kamchatka							
KRSC	**XII 29 09 11 55.3**	**54.48N**	**161.61E**	**23**	**3.6b**		**¶97xii5566**	
KRSC	Felt I=III at Kronoki							
	(244) Taiwan							
ISC	**XII 29 11 53 31.0**±.55	**23.22N**±.038	**120.40E**±.060	**20**	3.5b	**22**	**0-84**	
BJI	XII 29 11 53 06.8	21.67N	121.67E	20	4.0L		**¶97xii5580**	
TAP	XII 29 11 53 30.1	23.18N	120.45E	8	3.9L			
TAP	Felt I=III J I Chiayi							
	(218) Near east coast of Kamchatka							
KRSC	**XII 29 16 46 18.4**	**54.65N**	**161.77E**	**38**	**3.9b**		**¶97xii5614**	
KRSC	Felt I=III at Kronoki							
	(40) California-Nevada border region							
ISC	**XII 29 20 02 33.8**±.32	**37.59N**±.039	**118.93W**±.035	**8**	3.4b,3.3s	**40**	**0-32**	
NEIC	XII 29 20 02 32.6	37.60N	118.92W	8			**¶97xii5629**	
EIDC	XII 29 20 02 35.5±1.87	37.4N	119.0W	0	3.4b,3.6L			
NEIC	M_D4.3(GM), Mw4.1(BRK). Felt, After GM−P.							
NEIC	ML 4.3 (BRK), 4.1 (GS). Felt in the Mammoth Lakes area, California.							
EIDC	Error ellipse is semi−major=38.8km semi−minor=15.8km azimuth=70							
	(456) Montana							
ISC	**XII 30 00 08 37.5**±.48	**45.96N**±.036	**111.54W**±.055	**2**		**29**	**0-17**	
EIDC	XII 30 00 08 37.0±2.05	46.5N	111.2W	0	3.3L		**¶97xii5661**	
NEIC	XII 30 00 08 37.2	45.93N	111.48W	2				
EIDC	Error ellipse is semi−major=26.4km semi−minor=18.3km azimuth=34							
NEIC	M_L3.0(BUT). Felt, After BUT.							
NEIC	Felt at Logan and Trident.							
	(218) Near east coast of Kamchatka							
ISC	**XII 30 04 00 59**±1.3	**54.66N**±.087	**161.9E**±.32	**59**±9.7	**3.8b**	**13**	**0-69**	
EIDC	XII 30 04 00 57.3	55.3N	162.0E	0	3.6b		**¶97xii5679**	
KRSC	XII 30 04 00 59.5	54.66N	161.85E	41	3.7b			
EIDC	Origin time error = 24.06Error ellipse is semi−major=743.7km semi−minor=43.1km azimuth=27							
KRSC	Felt I=II Kronoki							
	(358) Romania							
ISC	**XII 30 04 39 29.7**±.21	**45.56N**±.021	**26.34E**±.024	**139**±2.9	**4.5b**	**285**	**0-143**	
NEIC	XII 30 04 39 29.0	45.58N	26.36E	135	4.7b		**¶97xii5682**	
BJI	XII 30 04 39 29.3	46.07N	25.51E	164	4.7b			
EIDC	XII 30 04 39 30.6±.51	45.6N	26.1E	137±4.6	4.2b			
BUC	XII 30 04 39 30.9	45.49N	26.33E		5.2D			
PDG	XII 30 04 39 31.5	46.3N	25.7E	100	4.2L			
NEIC	Felt in central Romania and at Bucharest. Felt I=V MSK at Cahul and IV MSK at Chisinau, Moldova. Also felt III MSK at Izmayil and Odesa, Ukraine.							
EIDC	Error ellipse is semi−major=12.7km semi−minor=10.4km azimuth=115							
	(244) Taiwan							
ISC	**XII 30 14 49 47**±1.2	**24.33N**±.055	**121.8E**±.14	**3**±12		**10**	**0-1**	
TAP	XII 30 14 49 46.0	24.36N	121.72E	14	2.8L		**¶97xii5747**	
TAP	Felt I=III J							
	(39) Central California							
ISC	**XII 30 17 10 34.9**±.89	**36.88N**±.072	**121.7W**±.11	**24**±7.7		**20**	**0-4**	
NEIC	XII 30 17 10 35.5	36.94N	121.68W	13			**¶97xii5763**	
NEIC	M_L3.2(BRK), M_D3.1(GM). Felt, After GM−P.							
NEIC	Felt at Carmel and Watsonville.							
	(221) Kuril Islands							
ISC	**XII 31 01 16 44.9**±.62	**43.37N**±.043	**146.72E**±.058	**69**±5.0	**4.6b**	**133**	**1-152**	
NEIC	XII 31 01 16 43.3	43.39N	146.58E	57	4.6b		**¶97xii5817**	
MOS	XII 31 01 16 43.6	43.3N	146.7E	64	4.9b			
BJI	XII 31 01 16 44.7	43.80N	146.59E	55	4.5b,4.2s			
EIDC	XII 31 01 16 44.8±.70	43.4N	146.6E	57±6.0	4.2b,3.9s			
SKHL	XII 31 01 16 45.0	43.4N±.14	146.9E±.13	64±2				
JMA	XII 31 01 16 45.6±.3	43.28N±.02	146.70E±.03	63±3	4.4			
NEIC	Felt I=III MSK at Yuzhno−Kurilsk, Kunashir. Also felt I J1 in eastern Hokkaido.							
MOS	Felt I=II−III MSK at Uzno−Kurilsk.							
EIDC	Error ellipse is semi−major=15.9km semi−minor=12.9km azimuth=117							
SKHL	K10							
	(218) Near east coast of Kamchatka							
ISC	**XII 31 01 25 06**±1.1	**54.46N**±.076	**161.9E**±.21	**45**±11	**3.5b**,3.6s	**18**	**0-69**	
EIDC	XII 31 01 25 01.4±4.03	54.5N	161.7E	0	3.6b,3.6s		**¶97xii5818**	
KRSC	XII 31 01 25 04.8	54.42N	162.01E	23	3.9b			
EIDC	Error ellipse is semi−major=93.9km semi−minor=29.5km azimuth=12							
KRSC	Felt I=III Kronoki							
	(244) Taiwan							
ISC	**XII 31 07 46 27**±1.6	**24.05N**±.058	**121.8E**±.11	**5**±11		**14**	**0-2**	
TAP	XII 31 07 46 28.2	24.14N	121.67E	8	3.3L		**¶97xii5857**	
TAP	Felt I=II J							
	(43) Southern California							
ISC	**XII 31 12 22 43**±1.1	**33.1N**±.11	**115.69W**±.069	**10**	3.4b	**23**	**1-29**	
EIDC	XII 31 12 22 43.0±4.41	32.8N	116.1W	0	3.9L,3.3b		**¶97xii5893**	
NEIC	XII 31 12 22 45.0	33.19N	115.61W	10				
EIDC	Error ellipse is semi−major=83.6km semi−minor=16.1km azimuth=53							
NEIC	M_L4.1(PAS). Felt, After PAS.							
NEIC	Felt in the Niland area.							
	(496) New Mexico							
ISC	**XII 31 13 28 33**±1.0	**34.57N**±.044	**106.4W**±.10	**8**±7.7		**21**	**0-8**	
NEIC	XII 31 13 28 30.0	34.53N	106.15W	5			**¶97xii5904**	
NEIC	$M_{L3.5}$(GS)							
NEIC	Felt at Estancia, Moriarty and Mountainair.							
	(235) Kyūshū							
ISC	**XII 31 14 10 09.5**±.98	**31.83N**±.069	**130.28E**±.084	**6**±16		**7**	**0-1**	
JMA	XII 31 14 10 09.7±.0	31.82N±.00	130.29E±.00	6±1	2.8		**¶97xii5913**	
JMA	Felt I=II J1							
	(40) California-Nevada border region							
ISC	**XII 31 20 36 48.9**±.21	**37.65N**±.024	**118.85W**±.031	**7**	**4.6b,4.0s**	**107**	**0-149**	
NEIC	XII 31 20 36 47.3	37.63N	118.87W	7	4.8b		**¶97xii5966**	
EIDC	XII 31 20 36 49.8±.69	37.6N	118.7W	0	4.2b,4.0L			
NEIC	Mw4.8(BRK), M_L4.8(GM). Damage, After GM−P.							
NEIC	Minor damage from falling ice at Mammoth Lakes, California. Also felt at Mammoth Mountain, California.							
EIDC	Error ellipse is semi−major=17.5km semi−minor=13.4km azimuth=80							
	(233) Near south coast of Southern Honshū							
ISC	**XII 31 22 27 42**±1.1	**34.13N**±.057	**135.16E**±.065	**11**±9.3	**3.6b**	**14**	**0-57**	
JMA	XII 31 22 27 42.6±.0	34.14N±.00	135.15E±.00	10±1	3.4		**¶97xii5987**	
EIDC	XII 31 22 27 42.7±1.21	34.1N	135.2E	0	3.5b,4.2L			
JMA	Felt I=III J1							
EIDC	Error ellipse is semi−major=35.0km semi−minor=21.7km azimuth=77							

PROBABLE EXPLOSIONS

(543) Germany

BUG	**VII 01 02 03 05.2**	**51.7N**	**7.9E**	**1**	**1.7L**	**¶97vii0009**
BUG	Mining induced event					

(724) Western Russia

BER	**VII 01 10 12 14.7**	**59.4N**	**27.2E**	**0**		**¶97vii0066**
BER	Probable explosion					

(379) Near south coast of France

ISC	**VII 01 10 36 15**±2.0	**43.1N**±.15	**5.98E**±.080	**0**		**13 0-1**
NEIC	VII 01 10 36 16.8	43.20N	5.92E	10		**¶97vii0068**
NEIC	M_L2.7(STR), Single network solution.					
NEIC	Mining induced event in the Gardanne area.					

(547) Czech and Slovak Republics

ISC	**VII 01 14 51 58.0**±.81	**49.78N**±.073	**18.45E**±.083	**0**		**11 0-4**
ISC	Possibly mining induced					**¶97vii0105**

(379) Near south coast of France

ISC	**VII 01 18 15 17.9**±.78	**43.44N**±.052	**5.48E**±.069	**0**		**17 0-2**
NEIC	VII 01 18 15 17.7	43.42N	5.40E	10		**¶97vii0123**
STR	VII 01 18 15 18.4	43.41N	5.46E	1	3.0L	
NEIC	Single network solution.					
NEIC	Mining induced event in the Gardanne area.					

(723) Finland-USSR border region

ISC	**VII 02 09 33 33**±2.4	**64.7N**±.23	**30.8E**±.72	**0**		**4 3-10**
BER	VII 02 09 33 34.7	64.4N	31.5E	0		**¶97vii0212**
ISC	Poorly determined					
BER	Probable explosion					

(724) Western Russia

BER	**VII 02 09 55 57.3**	**56.1N**	**23.3E**	**0**		**¶97vii0218**
BER	Probable explosion					

(543) Germany

BUG	**VII 02 10 33 55.7**	**51.6N**	**7.6E**	**1**	**1.1L**	**¶97vii0226**
BUG	Mining induced event					

(379) Near south coast of France

ISC	**VII 02 16 25 47.6**±.75	**43.46N**±.052	**5.50E**±.070	**0**		**15 0-2**
NEIC	VII 02 16 25 47.4	43.45N	5.43E	10		**¶97vii0266**
NEIC	M_L2.6(STR), Single network solution.					
NEIC	Mining induced event in the Gardanne area.					

(543) Germany

BUG	**VII 03 01 59 12.7**	**51.7N**	**7.0E**	**1**	**1.4L**	**¶97vii0336**
BUG	Mining induced event					

(543) Germany

BUG	**VII 03 08 28 16.2**	**51.6N**	**6.7E**	**1**	**1.5L**	**¶97vii0378**
BUG	Mining induced event					

(548) Poland

ISC	**VII 03 09 16 09**±1.2	**50.4N**±.12	**18.82E**±.089	**0**		**9 0-4**
WAR	VII 03 09 16 10.2	50.3N	18.9E		2.9L	**¶97vii0383**
WAR	Mining induced					

(543) Germany

BUG	**VII 03 11 04 32.8**	**51.7N**	**7.9E**	**1**	**1.9L**	**¶97vii0400**
BUG	Mining induced event					

(724) Western Russia

BER	**VII 03 11 23 46.6**	**59.4N**	**27.8E**	**0**		**¶97vii0402**
BER	Probable explosion					

(543) Germany

BUG	**VII 03 12 06 42.0**	**51.5N**	**7.1E**	**1**	**1.0L**	**¶97vii0407**
BUG	Mining induced event					

(535) Southern Norway

ISC	**VII 03 15 52 38**±1.4	**60.39N**±.055	**5.0E**±.24	**0**		**8 0-4**
BER	VII 03 15 52 39.9	60.4N	5.0E	0	1.4D,1.4L	**¶97vii0427**
BER	Probable explosion					

(548) Poland

ISC	**VII 03 20 00 47.1**±.63	**51.68N**±.045	**16.22E**±.094	**0**		**30 1-12**
NEIC	VII 03 20 00 48.3	51.69N	16.18E	10		**¶97vii0445**
SZGRF	VII 03 20 00 49.7	51.5N	16.3E	1	3.6L	
EIDC	VII 03 20 00 49.7	51.5N	16.3E	0	3.4L	
ISC	Possibly mining induced (after WAR)					
NEIC	$M_{L3.6}$(VIE).					

(724) Western Russia

BER	**VII 04 14 20 31.6**	**55.7N**	**24.1E**	**0**		**¶97vii0571**
BER	Probable explosion					

(536) Sweden

BER	**VII 04 15 42 56.8**	**67.8N**	**20.1E**	**0**	**2.4D,1.7L**	**¶97vii0586**
BER	Probable explosion					

(535) Southern Norway

ISC	**VII 04 18 48 50.9**±.78	**60.62N**±.047	**5.5E**±.16	**0**		**9 0-2**
BER	VII 04 18 48 51.8	60.5N	4.8E	0	1.8D,1.6L	**¶97vii0605**
BER	Probable explosion					

(543) Germany

ISC	**VII 04 20 04 51**±3.6	**50.7N**±.10	**9.9E**±.44	**0**		**4 1-1**
SZGRF	VII 04 20 04 53.6	50.8N	9.9E	1	1.0L	**¶97vii0613**
ISC	Poorly determined					
SZGRF	Possibly mining induced					

(543) Germany

ISC	**VII 04 20 13 32.3**±.78	**50.74N**±.064	**10.13E**±.082	**0**		**14 1-4**
SZGRF	VII 04 20 13 36.0	50.8N	10.0E	1	2.4L	**¶97vii0614**
SZGRF	Possibly mining induced					

(536) Sweden

BER	**VII 04 23 19 29.3**	**67.9N**	**21.0E**	**0**	**2.4D,1.7L**	**¶97vii0635**
BER	Probable explosion					

(548) Poland

ISC	**VII 05 19 50 06**±2.2	**51.6N**±.16	**16.2E**±.13	**0**		**8 1-3**
NEIC	VII 05 19 50 13.9	51.14N	15.80E	5		**¶97vii0780**
ISC	Possibly mining induced (after WAR)					
NEIC	MG2.4(WAR), Less reliable solution.					

(536) Sweden

BER	**VII 05 23 18 07.9**	**67.6N**	**20.3E**	**0**	**1.7L**	**¶97vii0806**
BER	Probable explosion					

(536) Sweden

BER	**VII 05 23 22 33.1**	**67.8N**	**19.7E**	**0**	**2.5D,1.7L**	**¶97vii0808**
BER	Probable explosion					

(536) Sweden

BER	**VII 06 03 03 23.2**	**67.9N**	**18.9E**	**0**	**2.3D,1.4L**	**¶97vii0832**
BER	Probable explosion					

(721) Finland

BER	**VII 07 10 44 34.4**	**63.0N**	**27.9E**	**0**		**¶97vii1028**
EIDC	VII 07 10 44 36.6	63.0N	27.4E	0	3.6L	
BER	Probable explosion					

(543) Germany

BUG	**VII 07 11 24 08.8**	**51.6N**	**7.0E**	**1**	**1.3L**	**¶97vii1032**
BUG	Mining induced event					

(536) Sweden

ISC	**VII 07 15 31 20**±1.2	**67.2N**±.10	**21.5E**±.31	**0**		**5 2-8**
BER	VII 07 15 31 24.1	67.3N	21.1E	0		**¶97vii1061**
BER	Probable explosion					

(646) Northern Norway

BER	**VII 08 01 12 01.5**	**66.9N**	**15.5E**	**0**	**2.3D,2.0L**	**¶97vii1114**
BER	Explosion					

(723) Finland-USSR border region

BER	**VII 08 13 18 46.6**	**61.0N**	**28.9E**	**0**		**¶97vii1193**
BER	Probable explosion					

(543) Germany

LEDBW	**VII 08 19 41 29.3**	**49.16N**	**6.96E**	**1**	**1.8L**	**¶97vii1228**
LEDBW	Mining induced event					

(536) Sweden

BER	**VII 08 23 34 16.3**	**67.8N**	**19.7E**	**0**	**2.3D,1.6L**	**¶97vii1251**
BER	Probable explosion					

(723) Finland-USSR border region

BER	**VII 09 08 03 32.1**	**61.4N**	**30.0E**	**0**		**¶97vii1299**
BER	Probable explosion					

(723) Finland-USSR border region

BER	**VII 09 10 00 04.1**	**64.4N**	**30.7E**	**0**		**¶97vii1316**
BER	Probable explosion					

(535) Southern Norway

BER	**VII 09 13 12 46.4**	**58.3N**	**6.4E**	**0**	**1.9D,1.6L**	**¶97vii1343**
BER	Explosion					

(548) Poland

ISC	**VII 09 22 28 29**±1.2	**50.4N**±.13	**18.82E**±.097	**0**		**12 1-5**
WAR	VII 09 22 28 30.3	50.3N	18.9E		2.8L	**¶97vii1407**
WAR	Mining induced					

(536) Sweden

BER	**VII 09 23 28 16.0**	**67.8N**	**19.7E**	**0**	**2.6D,1.7L**	**¶97vii1410**
BER	Probable explosion					

(543) Germany

SZGRF	**VII 10 00 09 03.5**	**51.7N**	**7.8E**	**1**	**1.9L**	**¶97vii1413**
SZGRF	Mining induced					

(548) Poland

ISC	**VII 10 03 33 41.7**±.75	**51.67N**±.055	**16.2E**±.11	**0**		**13 1-11**
NEIC	VII 10 03 33 42.4	51.67N	16.29E	5		**¶97vii1438**
EIDC	VII 10 03 33 42.8	51.5N	16.7E	0	3.1L	
ISC	Possibly mining induced (after WAR)					
NEIC	$M_{L3.0}$(VIE).					

(724) Western Russia

BER	**VII 10 10 49 18.1**	**59.3N**	**28.0E**	**0**		**¶97vii1500**
BER	Probable explosion					

(535) Southern Norway

BER	**VII 10 14 20 14.9**	**61.8N**	**4.3E**	**0**	**1.7D**	**¶97vii1522**
BER	Probable explosion					

(543) Germany

BUG	**VII 10 16 44 08.9**	**51.5N**	**7.1E**	**1**	**1.1L**	**¶97vii1538**
BUG	Mining induced event					

(536) Sweden

BER	**VII 10 23 35 30.7**	**67.6N**	**20.3E**	**0**	**1.9D**	**¶97vii1588**
BER	Probable explosion					

(724) Western Russia

BER	**VII 11 08 19 18.9**	**62.1N**	**34.9E**	**0**		**¶97vii1648**
BER	Probable explosion					

(721) Finland

BER	**VII 11 10 48 02.3**	**63.0N**	**27.8E**	**0**		**¶97vii1674**
BER	Probable explosion					

(535) Southern Norway

ISC	**VII 11 13 13 49**±1.2	**58.32N**±.092	**6.6E**±.18	**0**		**10 1-10**
BER	VII 11 13 13 51.6	58.3N	6.4E	0	2.3D,2.2L	**¶97vii1686**
EIDC	VII 11 13 13 52.2	58.4N	6.7E	0	3.1L	
BER	Probable explosion					

(724) Western Russia

BER	**VII 11 14 02 51.6**	**56.4N**	**26.2E**	**0**		**¶97vii1693**
BER	Probable explosion					

(543) Germany

ISC	**VII 11 16 16 48**±1.0	**51.6N**±.11	**7.83E**±.093	**0**		**7 0-3**
BUG	VII 11 16 16 48.6	51.7N	7.7E	1	2.4L	**¶97vii1704**
SZGRF	VII 11 16 16 49.9	51.6N	7.8E	1	2.4L	
BUG	Mining induced event					

(543) Germany

BUG	**VII 12 03 18 27.2**	**51.5N**	**7.1E**	**1**	**1.0L**	**¶97vii1769**
BUG	Mining induced event					

(548) Poland

ISC	**VII 12 13 18 24**±3.5	**51.4N**±.22	**15.9E**±.22	**0**		**9 1-4**
ISC	Possibly mining induced (after WAR)					**¶97vii1822**

(543) Germany

ISC	**VII 12 14 07 45**±1.3	**51.55N**±.082	**6.7E**±.18	**0**		**4 0-1**
BUG	VII 12 14 07 44.0	51.6N	6.7E	1	1.8L	**¶97vii1826**
ISC	Poorly determined					
BUG	Mining induced event					

(536) Sweden

BER	**VII 12 18 31 02.7**	**67.4N**	**21.1E**	**0**	**2.4D**	**¶97vii1853**
BER	Probable explosion					

(548) Poland

ISC	**VII 12 19 23 38**±1.7	**51.3N**±.14	**15.7E**±.11	**0**		**9 1-4**
NEIC	VII 12 19 23 33.9	51.54N	16.06E	5		**¶97vii1859**
ISC	Possibly mining induced (after WAR)					
NEIC	M_L2.9(VIE), Poor solution.					

(543) Germany

BUG	**VII 12 19 34 45.9**	**51.7N**	**7.7E**	**1**	**1.5L**	**¶97vii1860**
BUG	Mining induced event					

(548) Poland

ISC	**VII 12 20 03 01**±2.1	**51.6N**±.15	**16.0E**±.12	**0**		**10 1-4**
NEIC	VII 12 20 03 04.2	51.41N	16.18E	5		**¶97vii1864**
ISC	Possibly mining induced (after WAR)					
NEIC	M_L3.0(VIE), Less reliable solution.					

(548) Poland

ISC	**VII 12 21 52 48**±2.1	**51.7N**±.15	**16.1E**±.12	**0**		**10 1-4**
NEIC	VII 12 21 52 57.0	51.08N	15.77E	5		**¶97vii1871**
ISC	Possibly mining induced (after WAR)					

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
NEIC	M_L2.9(VIE), Less reliable solution.							
	(536) Sweden							
BER	**VII 12 23 37 13.9**	**68.0N**	**21.1E**	**0**	**2.9D,2.5L**			**¶97vii1887**
BER	Probable explosion							
	(724) Western Russia							
BER	**VII 14 11 25 18.4**	**59.3N**	**26.9E**	**0**				**¶97vii2118**
BER	Probable explosion							
	(724) Western Russia							
BER	**VII 14 11 49 50.0**	**59.1N**	**27.6E**	**0**				**¶97vii2121**
BER	Probable explosion							
	(723) Finland-USSR border region							
BER	**VII 14 16 34 27.6**	**60.8N**	**28.9E**	**0**				**¶97vii2176**
BER	Probable explosion							
	(536) Sweden							
BER	**VII 14 23 29 33.1**	**67.5N**	**20.9E**	**0**	**2.4D,1.6L**			**¶97vii2219**
BER	Probable explosion							
	(646) Northern Norway							
BER	**VII 15 15 27 19.6**	**66.8N**	**15.6E**	**0**	**2.3D**			**¶97vii2318**
BER	Explosion							
	(721) Finland							
BER	**VII 16 10 45 43.4**	**63.0N**	**27.9E**	**0**				**¶97vii2428**
BER	Probable explosion							
	(724) Western Russia							
BER	**VII 16 11 18 45.1**	**59.2N**	**27.8E**	**0**				**¶97vii2434**
BER	Probable explosion							
	(723) Finland-USSR border region							
BER	**VII 16 11 41 27.7**	**60.9N**	**28.8E**	**0**				**¶97vii2437**
BER	Probable explosion							
	(543) Germany							
BUG	**VII 16 11 42 33.4**	**51.5N**	**6.5E**	**1**	**1.6L**			**¶97vii2438**
BUG	Mining induced event							
	(543) Germany							
BUG	**VII 16 11 43 02.0**	**51.5N**	**6.5E**	**1**	**1.3L**			**¶97vii2439**
BUG	Mining induced event							
	(724) Western Russia							
BER	**VII 16 11 55 27.7**	**61.0N**	**29.2E**	**0**				**¶97vii2441**
BER	Probable explosion							
	(723) Finland-USSR border region							
BER	**VII 16 14 42 44.6**	**61.5N**	**30.2E**	**0**				**¶97vii2454**
BER	Probable explosion							
	(723) Finland-USSR border region							
BER	**VII 16 16 13 41.8**	**61.2N**	**30.2E**	**0**				**¶97vii2464**
BER	Probable explosion							
	(543) Germany							
BUG	**VII 16 19 48 06.5**	**51.7N**	**7.8E**	**1**	**1.5L**			**¶97vii2486**
BUG	Mining induced event							
	(536) Sweden							
BER	**VII 16 23 32 58.9**	**67.8N**	**19.4E**	**0**	**2.3D,1.6L**			**¶97vii2514**
BER	Probable explosion							
	(548) Poland							
ISC	**VII 17 03 55 08.4**±.53	**51.61N**±.039	**16.22E**±.070	**0**			**38**	**1-11**
NEIC	VII 17 03 55 08.8	51.65N	16.19E	5				**¶97vii2540**
EIDC	VII 17 03 55 10.1	51.6N	16.0E	0	3.4L			
WAR	VII 17 03 55 13.0	51.47N	16.13E		3.3L			
NEIC	M_L3.7(VIE).							
WAR	Mining induced							
	(543) Germany							
ISC	**VII 17 14 31 23**±1.1	**51.45N**±.063	**10.4E**±.14	**0**			**12**	**0-3**
SZGRF	VII 17 14 31 24.2	51.5N	10.4E	1	2.4L			**¶97vii2607**
SZGRF	Mining induced							
	(548) Poland							
ISC	**VII 17 20 09 46.2**±.78	**51.56N**±.057	**16.17E**±.094	**0**			**12**	**1-11**
NEIC	VII 17 20 09 47.0	51.57N	16.23E	5				**¶97vii2639**
EIDC	VII 17 20 09 49.6	51.5N	16.8E	0	3.4L			
ISC	Possibly mining induced (after WAR)							
	(543) Germany							
BUG	**VII 18 05 24 59.9**	**51.7N**	**7.7E**	**1**	**1.6L**			**¶97vii2697**
BUG	Mining induced event							
	(724) Western Russia							
BER	**VII 18 06 09 42.2**	**67.8N**	**34.0E**	**0**				**¶97vii2706**
BER	Probable explosion							
	(548) Poland							
WAR	**VII 18 10 35 29.6**	**50.3N**	**18.9E**		**2.9L**			**¶97vii2726**
WAR	Mining induced							
	(536) Sweden							
BER	**VII 18 23 30 40.1**	**67.7N**	**20.5E**	**0**	**2.5D,1.7L**			**¶97vii2799**
BER	Probable explosion							
	(536) Sweden							
BER	**VII 18 23 33 26.4**	**67.8N**	**19.7E**	**0**	**2.3D,1.7L**			**¶97vii2800**
BER	Probable explosion							
	(536) Sweden							
BER	**VII 19 03 48 05.7**	**67.7N**	**19.7E**	**0**	**2.3D,1.6L**			**¶97vii2827**
BER	Probable explosion							
	(548) Poland							
ISC	**VII 19 11 54 46.5**±.73	**51.67N**±.055	**16.2E**±.11	**0**			**17**	**1-11**
NEIC	VII 19 11 54 47.0	51.67N	16.25E	5				**¶97vii2866**
EIDC	VII 19 11 54 48.4	51.5N	16.4E	0	3.0L			
WAR	VII 19 11 54 51.0	51.48N	16.09E		3.0L			
NEIC	M_L3.4(VIE).							
WAR	Mining induced							
	(724) Western Russia							
BER	**VII 19 15 59 58.3**	**56.5N**	**25.9E**	**0**				**¶97vii2910**
BER	Probable explosion							
	(536) Sweden							
BER	**VII 19 23 21 21.3**	**67.8N**	**19.2E**	**0**	**2.4D,1.8L**			**¶97vii2971**
BER	Probable explosion							
	(543) Germany							
BUG	**VII 20 19 40 31.5**	**51.6N**	**7.7E**	**1**	**0.8L**			**¶97vii3143**
BUG	Mining induced event							
	(536) Sweden							
BER	**VII 20 23 30 23.6**	**67.9N**	**19.8E**	**0**	**2.3D**			**¶97vii3159**
BER	Probable explosion							
	(543) Germany							
BUG	**VII 21 10 43 03.8**	**51.5N**	**7.0E**	**1**	**0.8L**			**¶97vii3231**
BUG	Mining induced event							
	(460) Wyoming							
EIDC	**VII 21 19 44 33.2**	**45.0N**	**106.6W**	**0**	**3.5L**		**3-16**	
ISC	Possible mining explosion (after NEIC)							**¶97vii3283**
	(543) Germany							
BUG	**VII 22 01 06 54.4**	**51.7N**	**7.8E**	**1**	**1.7L**			**¶97vii3307**
BUG	Mining induced event							
	(548) Poland							
ISC	**VII 22 04 54 15.9**±.65	**51.71N**±.048	**16.21E**±.077	**0**			**30**	**1-11**
NEIC	VII 22 04 54 16.3	51.71N	16.21E	5				**¶97vii3328**
EIDC	VII 22 04 54 18.3	51.6N	16.1E	0	3.3L			
SZGRF	VII 22 04 54 20.1	51.5N	16.1E	1	3.5L			
WAR	VII 22 04 54 20.2	51.5N	16.0E		3.3L			
NEIC	M_L4.0(GRF), M_L3.7(VIE).							
WAR	Mining induced							
	(543) Germany							
BUG	**VII 22 14 11 53.3**	**51.7N**	**7.9E**	**1**	**1.9L**			**¶97vii3384**
BUG	Mining induced event							
	(646) Northern Norway							
BER	**VII 22 22 14 42.8**	**66.9N**	**16.0E**	**0**	**2.5D,2.1L**			**¶97vii3439**
BER	Explosion							
	(536) Sweden							
BER	**VII 23 00 57 59.0**	**67.8N**	**19.7E**	**0**	**2.0D,1.5L**			**¶97vii3462**
BER	Probable explosion							
	(723) Finland-USSR border region							
BER	**VII 23 08 10 03.3**	**62.1N**	**30.3E**	**0**				**¶97vii3502**
BER	Probable explosion							
	(724) Western Russia							
BER	**VII 23 09 39 59.6**	**57.8N**	**28.1E**	**0**				**¶97vii3509**
BER	Probable explosion							
	(543) Germany							
BUG	**VII 23 10 03 19.9**	**51.7N**	**7.8E**	**1**	**1.5L**			**¶97vii3513**
BUG	Mining induced event							
	(724) Western Russia							
BER	**VII 23 11 20 33.3**	**63.0N**	**34.3E**	**0**				**¶97vii3523**
BER	Probable explosion							
	(723) Finland-USSR border region							
BER	**VII 23 13 07 10.3**	**61.2N**	**29.8E**	**0**				**¶97vii3533**
BER	Probable explosion							
	(548) Poland							
ISC	**VII 23 21 49 57**±1.5	**51.6N**±.10	**16.1E**±.11	**0**			**25**	**1-6**
NEIC	VII 23 21 49 56.9	51.63N	16.22E	5				**¶97vii3578**
SZGRF	VII 23 21 49 59.3	51.5N	16.2E	1	3.5L			
WAR	VII 23 21 50 00.2	51.5N	16.1E		3.1L			
NEIC	M_L3.3(VIE).							
WAR	Mining induced							
	(548) Poland							
ISC	**VII 24 00 19 47**±1.0	**50.43N**±.087	**18.88E**±.077	**0**			**19**	**1-5**
WAR	VII 24 00 19 49.6	50.3N	18.9E		3.2L			**¶97vii3593**
WAR	Mining induced							
	(536) Sweden							
BER	**VII 24 06 30 41.2**	**67.8N**	**20.8E**	**0**	**2.0D,1.7L**			**¶97vii3632**
BER	Probable explosion							
	(536) Sweden							
BER	**VII 24 15 38 29.4**	**66.7N**	**21.1E**	**0**	**2.6D,1.8L**			**¶97vii3693**
BER	Probable explosion							
	(543) Germany							
BUG	**VII 25 01 54 12.9**	**51.5N**	**7.1E**	**1**	**1.0L**			**¶97vii3753**
BUG	Mining induced event							
	(723) Finland-USSR border region							
BER	**VII 25 09 00 00.4**	**64.6N**	**30.2E**	**0**				**¶97vii3809**
BER	Probable explosion							
	(535) Southern Norway							
ISC	**VII 25 15 07 54**±1.3	**59.4N**±.11	**5.6E**±.18	**0**			**4**	**0-3**
BER	VII 25 15 07 55.3	59.3N	5.6E	0	1.8D,1.7L			**¶97vii3838**
ISC	Poorly determined							
BER	Probable explosion							
	(543) Germany							
ISC	**VII 25 15 24 46.8**±.62	**49.35N**±.037	**6.92E**±.093	**0**			**16**	**0-3**
LEDBW	VII 25 15 24 48.1	49.38N	6.91E	1	2.1L			**¶97vii3839**
NEIC	VII 25 15 24 48.2	49.38N	6.92E	5				
LEDBW	Mining induced event							
NEIC	M_L2.3(UCC), Less reliable solution.							
NEIC	Mining induced event in the Lorraine region, France.							
	(535) Southern Norway							
ISC	**VII 25 17 43 24**±1.4	**59.4N**±.11	**6.3E**±.14	**0**			**11**	**0-4**
BER	VII 25 17 43 26.6	59.3N	6.1E	0	2.1D,1.9L			**¶97vii3853**
BER	Probable explosion							
	(548) Poland							
ISC	**VII 25 19 17 47.2**±.74	**51.66N**±.055	**16.11E**±.090	**0**			**14**	**1-11**
NEIC	VII 25 19 17 47.7	51.66N	16.25E	5				**¶97vii3865**
EIDC	VII 25 19 17 49.3	51.6N	16.1E	0	3.3L			
WAR	VII 25 19 17 52.0	51.47N	16.08E		2.7L			
NEIC	M_L3.3(GRF), M_L3.2(VIE).							
WAR	Mining induced							
	(548) Poland							
ISC	**VII 25 20 03 03.4**±.87	**50.0N**±.10	**19.06E**±.077	**0**			**12**	**1-4**
WAR	VII 25 20 03 04.5	50.1N	19.1E		2.8L			**¶97vii3871**
WAR	Mining induced							
	(543) Germany							
ISC	**VII 26 01 17 46.2**±.85	**51.54N**±.072	**7.77E**±.078	**0**			**18**	**0-6**
BUG	VII 26 01 17 47.2	51.7N	7.7E	1	2.2L			**¶97vii3896**
NEIC	VII 26 01 17 48.0	51.54N	7.62E	10				
LDG	VII 26 01 17 48.6	51.7N	7.8E		2.7L			
SZGRF	VII 26 01 17 49.6	51.6N	7.8E	1	2.3L			
BUG	Mining induced event							
NEIC	M_L2.5(UCC), Less reliable solution.							
	(537) Baltic Sea							
ISC	**VII 26 12 10 12**±1.5	**55.7N**±.11	**20.6E**±.25	**0**			**6**	**6-8**
BER	VII 26 12 10 14.3	55.4N	20.7E	0				**¶97vii3962**
EIDC	VII 26 12 10 15.0	55.8N	20.5E	0	3.2L			
BER	Probable explosion							
	(548) Poland							
ISC	**VII 26 12 19 17.1**±.54	**51.61N**±.040	**16.14E**±.068	**0**			**53**	**1-13**
NEIC	VII 26 12 19 16.3	51.69N	16.22E	5				**¶97vii3963**
EIDC	VII 26 12 19 18.0	51.6N	16.1E	0	3.7L			
SZGRF	VII 26 12 19 19.3	51.6N	16.2E	1	3.9L			
WAR	VII 26 12 19 21.0	51.48N	16.09E		3.4L			
NEIC	M_L4.2(GRF), M_L3.9(VIE).							
NEIC	ML 3.9 (FUR).							
WAR	Mining induced							
	(548) Poland							
ISC	**VII 26 19 01 28.4**±.47	**51.67N**±.036	**16.17E**±.064	**0**			**40**	**1-12**
NEIC	VII 26 19 01 28.8	51.68N	16.13E	5				**¶97vii3997**
SZGRF	VII 26 19 01 31.2	51.5N	16.1E	1	3.7L			
EIDC	VII 26 19 01 32.0	51.7N	16.0E	18	3.6L			

WAR VII 26 19 01 32.5 51.5N 16.0E 3.4L
NEIC ML4.2(GRF), ML3.8(VIE).
WAR Mining induced

(548) Poland

ISC VII 27 04 00 23.7±.73 **51.63N**±.054 **16.29E**±.094 **0** **16 1-11**
NEIC VII 27 04 00 24.1 51.61N 16.44E 5 **¶97vii4054**
EIDC VII 27 04 00 26.0 51.6N 16.1E 0 3.1L
ISC Possibly mining induced (after WAR)
NEIC ML3.3(GRF), ML3.2(VIE).

(548) Poland

ISC VII 27 07 46 54.9±.67 **51.71N**±.047 **16.1E**±.12 **0** **17 1-11**
NEIC VII 27 07 46 55.7 51.72N 16.09E 5 **¶97vii4079**
EIDC VII 27 07 46 56.3 51.6N 16.2E 0 3.1L
WAR VII 27 07 46 59.2 51.5N 16.0E 2.8L
NEIC ML3.4(GRF), ML3.3(VIE).
WAR Mining induced

(543) Germany

BUG VII 27 12 59 24.0 51.7N 7.7E 1 1.8L ¶97vii4110
BUG Mining induced event

(543) Germany

BUG VII 27 21 23 03.3 51.6N 7.2E 1 1.2L ¶97vii4164
BUG Mining induced event

(536) Sweden

BER VII 27 23 24 56.1 67.8N 20.1E 0 2.3D,1.9L ¶97vii4177
BER Probable explosion

(543) Germany

BUG VII 27 23 38 26.6 51.6N 7.6E 1 0.6L ¶97vii4179
BUG Mining induced event

(721) Finland

ISC VII 28 10 44 56±1.7 **63.1N**±.14 **27.5E**±.43 **0** **4 2-8**
BER VII 28 10 45 00.1 63.0N 27.6E 0 **¶97vii4255**
ISC Poorly determined
BER Probable explosion

(535) Southern Norway

ISC VII 28 11 52 01±1.5 **60.37N**±.073 **4.9E**±.31 **0** **5 1-1**
BER VII 28 11 52 02.3 60.3N 4.8E 0 1.6D,1.6L **¶97vii4264**
BER Probable explosion

(547) Czech and Slovak Republics

ISC VII 28 20 55 12.3±.67 **49.89N**±.060 **18.41E**±.074 **0** **16 0-4**
NEIC VII 28 20 55 13.1 49.89N 18.48E 10 **¶97vii4326**
ISC Possibly mining induced (after WAR)
NEIC ML2.6(BRA), Less reliable solution.

(536) Sweden

BER VII 28 23 23 39.8 67.8N 20.1E 0 2.3D ¶97vii4341
BER Probable explosion

(724) Western Russia

BER VII 29 14 22 35.6 56.5N 25.9E 0 ¶97vii4440
BER Probable explosion

(548) Poland

ISC VII 29 14 36 02.6±.83 **50.0N**±.11 **19.00E**±.077 **0** **9 1-4**
WAR VII 29 14 36 04.0 50.1N 19.1E 2.8L **¶97vii4442**
WAR Mining induced

(536) Sweden

BER VII 29 22 05 08.5 67.2N 20.4E 0 2.3D,1.5L ¶97vii4490
BER Probable explosion

(543) Germany

BUG VII 29 22 54 00.1 51.7N 7.9E 1 1.8L ¶97vii4497
SZGRF VII 29 22 54 02.6 51.7N 7.9E 1 2.0L
BUG Mining induced event

(536) Sweden

BER VII 29 23 29 55.3 67.7N 20.6E 0 2.6D,2.1L ¶97vii4501
BER Probable explosion

(548) Poland

ISC VII 30 03 43 00.7±.32 **51.59N**±.024 **16.22E**±.051 **0** **3.8b** **80 1-101**
NEIC VII 30 03 43 01.3 51.58N 16.19E 5 4.1b **¶97vii4527**
MOS VII 30 03 43 01.6 51.6N 16.2E 10 4.0b
EIDC VII 30 03 43 02.3 51.6N 15.9E 0 3.9L,3.6b
SZGRF VII 30 03 43 04.9 51.5N 16.1E 1 3.9L
WAR VII 30 03 43 05.0 51.44N 16.15E 3.2L
NEIC ML4.2(GRF), ML4.0(VIE).
NEIC ML 4.0 (FUR).
WAR Mining induced

(721) Finland

BER VII 30 10 44 49.3 63.0N 27.7E 0 ¶97vii4573
BER Probable explosion

(543) Germany

BUG VII 30 11 57 08.2 51.7N 7.8E 1 1.4L ¶97vii4578
BUG Mining induced event

(543) Germany

BUG VII 30 20 11 46.0 51.7N 7.9E 1 1.5L ¶97vii4630
BUG Mining induced event

(543) Germany

ISC VII 30 22 39 08.6±.96 **51.6N**±.10 **7.82E**±.086 **0** **10 0-4**
BUG VII 30 22 39 08.4 51.7N 7.7E 1 1.9L **¶97vii4642**
BUG Mining induced event

(536) Sweden

BER VII 30 23 50 07.5 67.8N 20.8E 0 2.2D,1.6L ¶97vii4651
BER Probable explosion

(536) Sweden

BER VII 30 23 52 41.6 68.0N 20.3E 0 2.4D,1.7L ¶97vii4652
BER Probable explosion

(536) Sweden

BER VII 31 00 06 21.1 67.8N 20.1E 0 2.3D,1.4L ¶97vii4655
BER Probable explosion

(543) Germany

BUG VII 31 14 09 02.6 51.7N 7.9E 1 1.6L ¶97vii4741
BUG Mining induced event

(536) Sweden

BER VII 31 23 26 27.3 67.5N 20.9E 0 2.4D,1.7L ¶97vii4801
BER Probable explosion

(543) Germany

ISC VIII 01 03 51 17.2±.95 **51.58N**±.092 **7.78E**±.088 **0** **9 0-3**
BUG VIII 01 03 51 16.8 51.7N 7.7E 1 2.1L **¶97viii0023**
BUG Mining induced event

(548) Poland

ISC VIII 01 05 26 18±1.2 **50.4N**±.13 **18.87E**±.091 **0** **12 1-4**
WAR VIII 01 05 26 20.1 50.3N 18.9E 3.0L **¶97viii0028**
WAR Mining induced

(543) Germany

BUG VIII 01 10 21 47.5 51.7N 7.8E 1 1.4L ¶97viii0048
BUG Mining induced event

(721) Finland

ISC VIII 01 10 43 56±1.8 **63.0N**±.15 **27.7E**±.46 **0** **4 2-8**
BER VIII 01 10 43 59.3 62.9N 28.0E 0 **¶97viii0052**
ISC Poorly determined
BER Probable explosion

(724) Western Russia

ISC VIII 01 11 44 28±2.4 **67.6N**±.13 **34.4E**±.52 **0** **5 1-12**
BER VIII 01 11 44 32.8 67.6N 34.1E 0 **¶97viii0056**
BER Probable explosion

(543) Germany

BUG VIII 01 22 00 08.3 51.7N 7.7E 1 2.0L ¶97viii0124
BUG Mining induced event

(548) Poland

ISC VIII 02 03 23 19.8±.68 **51.62N**±.050 **16.17E**±.091 **0** **14 1-67**
NEIC VIII 02 03 23 19.9 51.60N 16.53E 5 **¶97viii0164**
EIDC VIII 02 03 23 21.1 51.5N 16.4E 0 2.8L
WAR VIII 02 03 23 24.0 51.47N 16.13E 2.3L
NEIC ML3.0(VIE).
WAR Mining induced

(543) Germany

BUG VIII 02 06 00 17.3 51.7N 7.8E 1 1.3L ¶97viii0179
BUG Mining induced event

(548) Poland

ISC VIII 02 11 02 43±2.0 **51.1N**±.16 **15.8E**±.13 **0** **7 0-3**
ISC Possibly mining induced (after WAR) **¶97viii0202**

(543) Germany

BUG VIII 03 16 05 30.9 51.7N 7.7E 1 1.4L ¶97viii0381
BUG Mining induced event

(724) Western Russia

ISC VIII 04 09 18 13±9.5 **58.7N**±.70 **27.8E**±.90 **0** **4 3-9**
BER VIII 04 09 18 25.2 59.3N 27.0E 0 **¶97viii0484**
ISC Poorly determined
BER Probable explosion

(723) Finland-USSR border region

ISC VIII 04 11 58 14±3.7 **60.8N**±.28 **28.6E**±.40 **0** **4 1-8**
BER VIII 04 11 58 18.8 60.8N 28.6E 0 **¶97viii0504**
ISC Poorly determined
BER Probable explosion

(543) Germany

BUG VIII 04 18 37 56.8 51.7N 7.8E 1 1.6L ¶97viii0529
BUG Mining induced event

(543) Germany

BUG VIII 04 20 41 46.8 51.7N 7.7E 1 1.6L ¶97viii0549
BUG Mining induced event

(548) Poland

ISC VIII 04 23 44 30.5±.73 **50.43N**±.067 **19.08E**±.081 **0** **14 1-12**
EIDC VIII 04 23 44 27.6 49.9N 19.6E 0 3.0L **¶97viii0578**
NEIC VIII 04 23 44 31.0 50.42N 19.07E 5
WAR VIII 04 23 44 34.5 50.24N 19.20E 2.8L
WAR Mining induced

(543) Germany

BUG VIII 05 03 17 32.6 51.7N 7.7E 1 1.4L ¶97viii0606
BUG Mining induced event

(543) Germany

BUG VIII 05 06 12 06.9 51.7N 7.7E 1 1.6L ¶97viii0623
BUG Mining induced event

(721) Finland

BER VIII 05 10 47 13.5 63.0N 27.9E 0 ¶97viii0654
BER Probable explosion

(724) Western Russia

ISC VIII 05 11 00 45±9.2 **58.7N**±.66 **29.3E**±.88 **0** **4 3-9**
BER VIII 05 11 00 57.5 59.3N 28.6E 0 **¶97viii0655**
ISC Poorly determined
BER Probable explosion

(724) Western Russia

BER VIII 05 11 42 52.2 61.9N 34.8E 0 ¶97viii0664
BER Probable explosion

(543) Germany

BUG VIII 05 20 36 03.6 51.5N 7.1E 1 0.9L ¶97viii0709
BUG Mining induced event

(724) Western Russia

BER VIII 06 11 06 21.7 59.4N 28.4E 0 ¶97viii0786
BER Probable explosion

(548) Poland

ISC VIII 06 11 20 58±1.3 **50.3N**±.13 **18.91E**±.087 **0** **7 1-2**
WAR VIII 06 11 20 58.2 50.3N 18.9E 3.1L **¶97viii0789**
WAR Mining induced

(724) Western Russia

BER VIII 06 13 03 42.8 56.4N 26.3E 0 ¶97viii0800
BER Probable explosion

(548) Poland

ISC VIII 06 19 13 30.1±.63 **51.60N**±.048 **16.17E**±.077 **0** **15 1-11**
NEIC VIII 06 19 13 31.2 51.62N 16.24E 5 **¶97viii0832**
EIDC VIII 06 19 13 32.5 51.5N 16.2E 0 3.0L
WAR VIII 06 19 13 34.0 51.47N 16.08E 2.4L
NEIC MG2.6(WAR).
WAR Mining induced

(543) Germany

BUG VIII 07 06 07 19.7 51.5N 7.1E 1 0.8L ¶97viii0896
BUG Mining induced event

(724) Western Russia

BER VIII 07 10 59 50.5 59.5N 28.3E 0 ¶97viii0930
BER Probable explosion

(721) Finland

BER VIII 07 11 15 57.9 63.6N 26.0E 0 ¶97viii0933
BER Probable explosion

(548) Poland

ISC VIII 07 19 33 57.9±.56 **51.66N**±.042 **16.29E**±.074 **0** **36 1-12**
NEIC VIII 07 19 33 58.4 51.67N 16.25E 5 **¶97viii0992**
EIDC VIII 07 19 33 58.9 51.6N 16.0E 0 3.3L
SZGRF VIII 07 19 34 02.6 51.4N 16.2E 1 3.3L
WAR VIII 07 19 34 03.0 51.47N 16.13E 3.2L
NEIC ML3.3(VIE).
WAR Mining induced

(495) Eastern Arizona

EIDC VIII 07 20 16 57.1 32.8N 109.5W 0 3.4L **3-39**
ISC Possible mining explosion (after NEIC) **¶97viii0997**

(543) Germany

BUG VIII 07 22 02 06.0 51.6N 7.7E 1 1.5L ¶97viii1008
BUG Mining induced event

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
	(543) Germany							
ISC	**VIII 08 03 07 43.2**±.91	**51.59N**±.094	**7.85E**±.085	**0**		**10**	**0-3**	
BUG	VIII 08 03 07 43.8	51.6N	7.7E	1	2.1L			¶97viii1047
SZGRF	VIII 08 03 07 46.0	51.6N	7.7E	1	2.2L			
BUG	Mining induced event							
	(548) Poland							
ISC	**VIII 08 04 01 12.1**±.55	**51.63N**±.042	**16.32E**±.068	**0**		**28**	**1-12**	
NEIC	VIII 08 04 01 13.4	51.67N	16.13E	5				¶97viii1051
EIDC	VIII 08 04 01 13.7	51.6N	16.3E	0	3.3L			
WAR	VIII 08 04 01 16.7	51.5N	16.1E		3.0L			
SZGRF	VIII 08 04 01 16.9	51.4N	16.2E	1	3.0L			
NEIC	M_L3.2(VIE).							
WAR	Mining induced							
	(548) Poland							
ISC	**VIII 08 05 19 06**±1.0	**50.3N**±.10	**18.85E**±.073	**0**		**14**	**0-5**	
WAR	VIII 08 05 19 06.7	50.3N	18.9E		2.9L			¶97viii1061
NEIC	VIII 08 05 19 07.9	50.14N	18.96E	5				
WAR	Mining induced							
NEIC	MG2.7(WAR), Less reliable solution.							
	(548) Poland							
ISC	**VIII 08 08 20 45**±1.1	**50.3N**±.12	**18.85E**±.088	**0**		**10**	**0-4**	
WAR	VIII 08 08 20 46.2	50.3N	18.9E		2.8L			¶97viii1072
WAR	Mining induced							
	(724) Western Russia							
ISC	**VIII 08 10 25 41**±4.1	**61.0N**±.34	**29.0E**±.45	**0**		**4**	**2-9**	
BER	VIII 08 10 25 46.5	61.0N	29.0E	0				¶97viii1094
ISC	Poorly determined							
BER	Probable explosion							
	(724) Western Russia							
BER	**VIII 08 11 35 12.1**	**67.7N**	**33.9E**	**0**				¶97viii1109
BER	Probable explosion							
	(535) Southern Norway							
ISC	**VIII 08 18 36 08**±4.0	**63.0N**±.34	**8.4E**±.38	**0**		**4**	**1-8**	
BER	VIII 08 18 36 10.9	63.0N	8.2E	0	2.2D			¶97viii1149
ISC	Poorly determined							
BER	Probable explosion							
	(543) Germany							
ISC	**VIII 08 22 32 16**±1.0	**51.61N**±.088	**7.90E**±.086	**0**		**8**	**0-3**	
BUG	VIII 08 22 32 15.3	51.7N	7.9E	1	1.8L			¶97viii1175
BUG	Mining induced event							
	(543) Germany							
BUG	**VIII 09 03 03 48.7**	**51.5N**	**7.1E**	**1**	**0.7L**			¶97viii1194
BUG	Mining induced event							
	(724) Western Russia							
ISC	**VIII 10 06 30 32**±2.5	**67.8N**±.11	**35.3E**±.52	**0**		**7**	**1-12**	
BER	VIII 10 06 30 40.4	67.9N	34.4E	0				¶97viii1361
BER	Probable explosion							
	(548) Poland							
ISC	**VIII 10 10 26 07**±2.1	**51.7N**±.15	**16.1E**±.12	**0**		**9**	**1-4**	
NEIC	VIII 10 10 26 15.5	51.15N	15.81E	5				¶97viii1381
ISC	Possibly mining induced (after WAR)							
NEIC	Less reliable solution.							
	(543) Germany							
BUG	**VIII 10 16 09 10.4**	**51.5N**	**7.2E**	**1**	**0.1L**			¶97viii1422
BUG	Mining induced event							
	(543) Germany							
BUG	**VIII 10 19 21 47.7**	**51.5N**	**7.1E**	**1**	**0.8L**			¶97viii1446
BUG	Mining induced event							
	(543) Germany							
BUG	**VIII 10 20 35 29.2**	**51.7N**	**7.7E**	**1**	**1.5L**			¶97viii1455
BUG	Mining induced event							
	(548) Poland							
ISC	**VIII 11 00 39 56**±2.0	**51.3N**±.16	**15.7E**±.12	**0**		**9**	**1-4**	
NEIC	VIII 11 00 39 34.7	52.45N	17.67E	5				¶97viii1483
WAR	VIII 11 00 39 53.8	51.5N	16.0E		2.1L			
NEIC	M_L3.0(VIE), Poor solution.							
WAR	Mining induced							
	(548) Poland							
ISC	**VIII 11 01 00 41.8**±.45	**50.03N**±.044	**18.44E**±.054	**0**		**33**	**0-13**	
EIDC	VIII 11 01 00 42.3	49.9N	18.6E	0	3.4L			¶97viii1487
NEIC	VIII 11 01 00 42.6	50.10N	18.42E	5				
SZGRF	VIII 11 01 00 45.3	49.9N	18.4E		3.3L			
ISC	Possibly mining induced (after WAR)							
NEIC	M_L3.4(VIE).							
SZGRF	Probably mining induced							
	(535) Southern Norway							
ISC	**VIII 11 09 29 42**±1.7	**60.10N**±.056	**4.8E**±.26	**0**		**7**	**0-1**	
BER	VIII 11 09 29 43.6	60.1N	4.9E	0	1.4D,1.0L			¶97viii1539
BER	Probable explosion							
	(543) Germany							
BUG	**VIII 11 14 08 11.5**	**51.5N**	**7.1E**	**1**	**0.9L**			¶97viii1573
BUG	Mining induced event							
	(546) Austria							
ISC	**VIII 11 15 04 05.6**±.29	**47.36N**±.023	**11.33E**±.036	**0**		**66**	**0-7**	
NEIC	VIII 11 15 04 07.2	47.30N	11.25E	10				¶97viii1576
SZGRF	VIII 11 15 04 07.3	47.3N	11.4E	10	3.2L			
LEDBW	VIII 11 15 04 08.7	47.33N	11.25E	10	3.1L			
LDG	VIII 11 15 04 11.8	47.4N	11.1E		3.0L			
STR	VIII 11 15 04 13.0	47.48N	10.97E	10	3.0L			
NEIC	M_L3.5(FUR)							
NEIC	2.9 (VIE).							
LEDBW	Mining induced event							
	(536) Sweden							
BER	**VIII 11 23 21 33.5**	**67.8N**	**20.1E**	**0**	**2.2D,1.6L**			¶97viii1644
BER	Probable explosion							
	(724) Western Russia							
BER	**VIII 12 09 58 14.1**	**61.6N**	**31.1E**	**0**				¶97viii1718
BER	Probable explosion							
	(548) Poland							
ISC	**VIII 12 11 34 06**±1.6	**51.4N**±.15	**15.83E**±.088	**0**		**12**	**1-4**	
WAR	VIII 12 11 34 05.3	51.5N	16.1E		2.8L			¶97viii1740
NEIC	VIII 12 11 34 09.0	51.17N	15.85E	5				
WAR	Mining induced							
NEIC	M_L3.4(VIE), Less reliable solution.							
	(543) Germany							
BUG	**VIII 12 12 35 51.6**	**51.5N**	**7.1E**	**1**	**1.2L**			¶97viii1749
BUG	Mining induced event							
	(724) Western Russia							
BER	**VIII 12 13 01 36.3**	**60.7N**	**34.9E**	**0**				¶97viii1753
BER	Probable explosion							
	(535) Southern Norway							
BER	**VIII 12 15 24 12.3**	**60.6N**	**5.0E**	**0**	**1.3D,1.0L**			¶97viii1774
BER	Probable explosion							
	(536) Sweden							
BER	**VIII 12 15 30 18.8**	**67.4N**	**20.1E**	**0**	**2.8D**			¶97viii1775
BER	Probable explosion							
	(543) Germany							
ISC	**VIII 12 17 15 15**±1.1	**51.60N**±.084	**7.8E**±.11	**0**		**7**	**0-2**	
BUG	VIII 12 17 15 14.6	51.6N	7.7E	1	1.8L			¶97viii1782
SZGRF	VIII 12 17 15 17.2	51.6N	7.7E	1	2.0L			
BUG	Mining induced event							
	(543) Germany							
BUG	**VIII 12 20 06 39.2**	**51.5N**	**7.1E**	**1**	**0.9L**			¶97viii1799
BUG	Mining induced event							
	(548) Poland							
ISC	**VIII 12 22 40 04**±3.9	**51.3N**±.23	**15.8E**±.26	**0**				
ISC	ML2.7 (after MOA), possibly mining induced (after WAR)							¶97viii1814
	(536) Sweden							
BER	**VIII 12 23 20 43.7**	**67.8N**	**20.2E**	**0**	**2.2D,1.6L**			¶97viii1819
BER	Probable explosion							
	(536) Sweden							
BER	**VIII 12 23 29 38.4**	**67.8N**	**20.2E**	**0**	**2.2D,1.3L**			¶97viii1822
BER	Probable explosion							
	(536) Sweden							
BER	**VIII 12 23 31 20.8**	**67.8N**	**20.2E**	**0**	**2.2D,1.6L**			¶97viii1823
BER	Probable explosion							
	(543) Germany							
BUG	**VIII 13 02 00 26.6**	**51.5N**	**7.1E**	**1**	**0.9L**			¶97viii1840
BUG	Mining induced event							
	(543) Germany							
LEDBW	**VIII 13 03 44 32.2**	**49.38N**	**7.00E**	**1**	**1.8L**			¶97viii1845
LEDBW	Mining induced event							
	(543) Germany							
BUG	**VIII 13 04 57 12.8**	**51.7N**	**7.7E**	**1**	**1.2L**			¶97viii1853
BUG	Mining induced event							
	(724) Western Russia							
BER	**VIII 13 11 00 02.2**	**64.5N**	**31.7E**	**0**				¶97viii1894
BER	Probable explosion							
	(724) Western Russia							
BER	**VIII 13 11 10 48.3**	**61.0N**	**29.1E**	**0**				¶97viii1896
BER	Probable explosion							
	(543) Germany							
BUG	**VIII 13 11 24 02.5**	**51.5N**	**7.1E**	**1**	**1.0L**			¶97viii1898
BUG	Mining induced event							
	(535) Southern Norway							
BER	**VIII 13 12 58 23.4**	**60.3N**	**5.2E**	**0**	**0.6D,0.9L**			¶97viii1910
BER	Probable explosion							
	(548) Poland							
ISC	**VIII 13 14 46 14.1**±.67	**50.44N**±.060	**18.93E**±.071	**0**		**19**	**1-12**	
EIDC	VIII 13 14 46 15.9	50.3N	18.8E	0	3.2L			¶97viii1921
NEIC	VIII 13 14 46 16.2	50.28N	18.88E	5				
WAR	VIII 13 14 46 16.3	50.3N	18.9E		3.3L			
NEIC	M_L3.3(VIE).							
WAR	Mining induced							
	(536) Sweden							
ISC	**VIII 13 15 29 46**±5.0	**66.7N**±.35	**21.6E**±.82	**0**		**4**	**2-3**	
BER	VIII 13 15 29 50.4	66.9N	21.5E	0	2.8D			¶97viii1930
ISC	Poorly determined							
BER	Probable explosion							
	(724) Western Russia							
BER	**VIII 13 15 57 44.6**	**56.5N**	**25.9E**	**0**				¶97viii1934
BER	Probable explosion							
	(543) Germany							
BUG	**VIII 13 19 47 46.9**	**51.5N**	**7.1E**	**1**	**0.9L**			¶97viii1950
BUG	Mining induced event							
	(536) Sweden							
ISC	**VIII 13 23 26 00**±2.2	**67.8N**±.20	**20.5E**±.49	**0**		**4**	**2-3**	
BER	VIII 13 23 26 04.8	68.0N	20.4E	0	2.6D			¶97viii1979
ISC	Poorly determined							
BER	Probable explosion							
	(548) Poland							
ISC	**VIII 14 00 49 36.6**±.66	**50.49N**±.057	**18.90E**±.069	**0**		**19**	**1-12**	
EIDC	VIII 14 00 49 38.6	50.3N	18.8E	0	3.0L			¶97viii1988
NEIC	VIII 14 00 49 38.8	50.30N	18.84E	5				
WAR	VIII 14 00 49 39.1	50.3N	18.9E		3.0L			
NEIC	M_L3.1(VIE).							
WAR	Mining induced							
	(548) Poland							
ISC	**VIII 14 03 37 57**±1.1	**51.28N**±.087	**15.74E**±.076	**0**		**29**	**1-12**	
EIDC	VIII 14 03 37 52.0	51.6N	16.1E	0	3.1L			¶97viii1998
SZGRF	VIII 14 03 37 55.6	51.5N	16.1E	1	3.1L			
WAR	VIII 14 03 37 56.0	51.5N	16.0E		2.9L			
NEIC	VIII 14 03 37 59.0	51.22N	15.68E	5				
WAR	Mining induced							
NEIC	M_L3.4(VIE).							
	(536) Sweden							
BER	**VIII 14 16 30 23.0**	**67.9N**	**20.6E**	**0**	**2.2D**			¶97viii2092
BER	Probable explosion							
	(536) Sweden							
BER	**VIII 14 22 10 48.9**	**67.3N**	**20.2E**	**0**	**2.3D,1.4L**			¶97viii2123
BER	Probable explosion							
	(536) Sweden							
BER	**VIII 14 23 29 35.5**	**68.0N**	**20.3E**	**0**	**2.7D**			¶97viii2129
BER	Probable explosion							
	(536) Sweden							
BER	**VIII 15 00 47 22.2**	**67.8N**	**20.6E**	**0**	**2.5D**			¶97viii2138
BER	Probable explosion							
	(548) Poland							
ISC	**VIII 15 03 34 04**±1.9	**51.4N**±.16	**16.1E**±.12	**0**		**7**	**1-3**	
ISC	Possibly mining induced (after WAR)							¶97viii2155
	(548) Poland							
ISC	**VIII 15 03 56 48**±2.1	**51.6N**±.15	**16.1E**±.12	**0**		**10**	**1-4**	
WAR	VIII 15 03 56 51.7	51.5N	16.0E		2.6L			¶97viii2157
NEIC	VIII 15 03 56 57.0	51.01N	15.74E	5				
WAR	Mining induced							
NEIC	M_L3.4(VIE), Less reliable solution.							
	(535) Southern Norway							
ISC	**VIII 15 12 23 40**±1.3	**59.75N**±.076	**5.5E**±.29	**0**		**4**	**1-1**	
BER	VIII 15 12 23 41.9	59.7N	5.4E	0	1.7D			¶97viii2216
ISC	Poorly determined							

BER Probable explosion
(535) Southern Norway
BER VIII 15 12 30 01.9 58.8N 5.4E 0 1.5D,0.6L ¶97viii2218
BER Probable explosion
(724) Western Russia
ISC VIII 15 16 20 02±1.9 **60.9N**±.14 **29.8E**±.28 **0 7 2-15**
EIDC VIII 15 16 20 09.9 60.7N 29.0E 0 3.2L **¶97viii2236**
BER VIII 15 16 20 10.1 61.2N 29.4E 0
BER Probable explosion
(543) Germany
BUG VIII 15 17 50 42.9 51.5N 7.1E 1 0.9L ¶97viii2246
BUG Mining induced event
(543) Germany
BUG VIII 15 19 15 12.9 51.7N 7.7E 1 1.7L ¶97viii2260
BUG Mining induced event
(543) Germany
ISC VIII 15 19 56 52.3±.95 **51.58N**±.094 **7.71E**±.097 **0 9 0-3**
BUG VIII 15 19 56 51.6 51.7N 7.7E 1 1.9L **¶97viii2263**
SZGRF VIII 15 19 56 53.0 51.7N 7.7E 1 2.0L
BUG Mining induced event
(536) Sweden
BER VIII 15 22 23 59.5 67.2N 20.4E 0 2.2D,1.3L ¶97viii2279
BER Probable explosion
(536) Sweden
BER VIII 15 23 22 45.6 67.9N 20.5E 0 3.1D ¶97viii2287
BER Probable explosion
(536) Sweden
ISC VIII 15 23 26 11±2.2 **67.8N**±.20 **20.4E**±.48 **0 4 2-3**
BER VIII 15 23 26 14.6 67.9N 20.4E 0 2.8D **¶97viii2289**
ISC Poorly determined
BER Probable explosion
(536) Sweden
BER VIII 15 23 33 28.1 67.9N 20.6E 0 2.4D,1.2L ¶97viii2291
BER Probable explosion
(536) Sweden
ISC VIII 16 00 37 38±2.2 **67.8N**±.20 **20.5E**±.49 **0 4 2-3**
BER VIII 16 00 37 42.8 67.9N 20.6E 0 2.3D,1.3L **¶97viii2296**
ISC Poorly determined
BER Probable explosion
(543) Germany
ISC VIII 16 00 52 56±1.1 **51.5N**±.10 **7.8E**±.12 **0 6 0-2**
BUG VIII 16 00 52 55.5 51.7N 7.7E 1 1.7L **¶97viii2299**
SZGRF VIII 16 00 52 57.3 51.6N 7.8E 1 1.9L
BUG Mining induced event
(543) Germany
ISC VIII 16 11 13 05±1.5 **51.5N**±.18 **7.9E**±.10 **0 7 0-3**
BUG VIII 16 11 13 03.4 51.7N 7.9E 1 1.8L **¶97viii2355**
SZGRF VIII 16 11 13 06.6 51.7N 7.9E 1 1.9L
BUG Mining induced event
(543) Germany
BUG VIII 16 17 28 38.8 51.5N 7.1E 1 0.7L ¶97viii2396
BUG Mining induced event
(536) Sweden
BER VIII 16 20 56 20.3 67.9N 20.5E 0 2.3D,1.4L ¶97viii2418
BER Probable explosion
(536) Sweden
ISC VIII 16 23 20 21.3±.84 **67.77N**±.085 **20.6E**±.22 **0 8 2-8**
BER VIII 16 23 20 25.7 67.9N 20.4E 0 2.6D,1.9L **¶97viii2433**
BER Probable explosion
(536) Sweden
BER VIII 16 23 23 21.6 67.9N 20.6E 0 2.4D,1.4L ¶97viii2435
BER Probable explosion
(543) Germany
BUG VIII 17 08 04 31.9 51.5N 7.1E 1 0.8L ¶97viii2510
BUG Mining induced event
(536) Sweden
ISC VIII 17 23 17 40±2.1 **67.8N**±.20 **20.4E**±.48 **0 4 2-3**
BER VIII 17 23 17 44.6 67.9N 20.4E 0 2.6D,1.8L **¶97viii2599**
ISC Poorly determined
BER Probable explosion
(543) Germany
BUG VIII 18 01 53 21.3 51.5N 7.1E 1 0.8L ¶97viii2610
BUG Mining induced event
(536) Sweden
BER VIII 18 04 16 33.1 67.9N 20.0E 0 2.5D,1.6L ¶97viii2619
BER Probable explosion
(543) Germany
BUG VIII 18 08 40 00.2 51.5N 7.1E 1 0.8L ¶97viii2647
BUG Mining induced event
(721) Finland
BER VIII 18 09 17 24.4 63.5N 27.0E 0 ¶97viii2652
BER Probable explosion
(724) Western Russia
BER VIII 18 12 18 51.1 57.4N 26.3E 0 ¶97viii2676
BER Probable explosion
(460) Wyoming
ISC VIII 18 18 11 50±1.4 **44.0N**±.20 **104.8W**±.18 **0 5 4-19**
EIDC VIII 18 18 11 52.1 44.1N 104.9W 0 4.0L **¶97viii2703**
ISC Possible mining explosion (after NEIC)
(548) Poland
ISC VIII 18 20 41 43±3.0 **51.4N**±.19 **15.8E**±.17 **0 7 1-3**
ISC Possibly mining induced (after WAR) **¶97viii2711**
(543) Germany
BUG VIII 18 23 11 24.2 51.7N 7.7E 1 1.7L ¶97viii2726
BUG Mining induced event
(543) Germany
ISC VIII 19 04 46 51±2.0 **51.6N**±.24 **7.8E**±.18 **0 5 0-3**
BUG VIII 19 04 46 49.3 51.7N 7.7E 1 2.1L **¶97viii2764**
SZGRF VIII 19 04 46 51.8 51.6N 7.8E 1 2.2L
ISC Poorly determined
BUG Mining induced event
(543) Germany
ISC VIII 19 09 59 09±1.2 **51.64N**±.072 **6.9E**±.18 **0 6 0-3**
SZGRF VIII 19 09 58 56.7 51.2N 4.1E 1 2.5L **¶97viii2792**
BUG VIII 19 09 59 09.0 51.7N 7.0E 1 1.3L
BUG Mining induced event
(535) Southern Norway
BER VIII 19 15 44 40.7 58.9N 5.9E 0 1.4D ¶97viii2829
BER Probable explosion
(548) Poland
ISC VIII 19 19 25 37.9±.58 **51.59N**±.042 **16.25E**±.079 **0 30 1-11**
NEIC VIII 19 19 25 38.5 51.61N 16.27E 5 **¶97viii2858**
SZGRF VIII 19 19 25 40.1 51.6N 16.2E 1 3.4L
EIDC VIII 19 19 25 40.2 51.6N 16.1E 0 3.2L
WAR VIII 19 19 25 42.0 51.47N 16.13E 2.8L
NEIC M_L3.4(VIE).
WAR Mining induced
(536) Sweden
BER VIII 19 23 39 52.7 67.8N 20.1E 0 2.2D,1.4L ¶97viii2882
BER Probable explosion
(724) Western Russia
BER VIII 20 10 44 05.2 60.9N 29.0E 0 ¶97viii2943
BER Probable explosion
(543) Germany
BUG VIII 20 16 16 56.4 51.5N 7.1E 1 0.8L ¶97viii2988
BUG Mining induced event
(543) Germany
BUG VIII 20 20 44 51.8 51.7N 7.7E 1 1.7L ¶97viii3012
BUG Mining induced event
(536) Sweden
BER VIII 20 22 09 16.2 66.9N 21.5E 0 2.4D,1.4L ¶97viii3022
BER Probable explosion
(543) Germany
LEDBW VIII 21 01 21 28.1 49.37N 7.01E 1 1.7L ¶97viii3039
LEDBW Mining induced event
(543) Germany
BUG VIII 21 06 33 06.1 51.5N 7.1E 1 0.9L ¶97viii3064
BUG Mining induced event
(543) Germany
ISC VIII 21 08 27 41±1.2 **51.68N**±.097 **7.9E**±.11 **0 5 0-2**
BUG VIII 21 08 27 40.6 51.7N 7.9E 1 1.9L **¶97viii3071**
SZGRF VIII 21 08 27 43.2 51.7N 7.9E 1 2.1L
BUG Mining induced event
(548) Poland
ISC VIII 21 10 58 11.9±.58 **51.68N**±.047 **16.15E**±.074 **0** 4.2b **21 1-46**
NEIC VIII 21 10 58 13.1 51.72N 16.05E 5 **¶97viii3089**
EIDC VIII 21 10 58 14.9 51.7N 15.9E 0 3.3L,4.0b
WAR VIII 21 10 58 16.9 51.5N 16.1E 3.1L
NEIC M_L3.3(VIE).
WAR Mining induced
(535) Southern Norway
BER VIII 21 12 28 42.1 60.5N 5.5E 0 0.4D,1.0L ¶97viii3095
BER Probable explosion
(723) Finland-USSR border region
BER VIII 21 13 19 41.2 61.1N 29.1E 0 ¶97viii3101
BER Probable explosion
(536) Sweden
BER VIII 21 23 24 53.2 67.8N 20.2E 0 2.2D,1.4L ¶97viii3160
BER Probable explosion
(536) Sweden
BER VIII 21 23 30 06.1 67.8N 20.2E 0 2.1D,1.5L ¶97viii3161
BER Probable explosion
(543) Germany
ISC VIII 21 23 34 08.9±.87 **51.58N**±.088 **7.84E**±.084 **0 11 0-4**
BUG VIII 21 23 34 08.7 51.7N 7.7E 1 1.8L **¶97viii3162**
SZGRF VIII 21 23 34 10.5 51.6N 7.7E 1 2.1L
BUG Mining induced event
(543) Germany
BUG VIII 22 02 54 57.5 51.5N 7.1E 1 1.0L ¶97viii3170
BUG Mining induced event
(543) Germany
BUG VIII 22 04 52 05.6 51.7N 7.7E 1 1.7L ¶97viii3179
BUG Mining induced event
(724) Western Russia
BER VIII 22 11 41 10.7 67.7N 33.9E 0 ¶97viii3215
BER Probable explosion
(535) Southern Norway
ISC VIII 22 13 46 13±1.2 **60.88N**±.076 **5.2E**±.22 **0 4 0-1**
BER VIII 22 13 46 13.7 60.9N 5.1E 0 1.7D **¶97viii3234**
ISC Poorly determined
BER Probable explosion
(535) Southern Norway
ISC VIII 22 14 57 09±1.4 **60.40N**±.055 **5.0E**±.24 **0 8 0-4**
BER VIII 22 14 57 10.5 60.4N 5.0E 0 1.5D,1.5L **¶97viii3242**
BER Probable explosion
(543) Germany
BUG VIII 22 15 10 54.5 51.5N 7.1E 1 1.1L ¶97viii3244
BUG Mining induced event
(548) Poland
ISC VIII 22 16 41 13.8±.44 **51.61N**±.036 **16.16E**±.068 **0 35 1-12**
NEIC VIII 22 16 41 14.1 51.60N 16.18E 5 **¶97viii3250**
EIDC VIII 22 16 41 15.4 51.5N 16.1E 0 3.8L
SZGRF VIII 22 16 41 16.2 51.5N 16.2E 1 3.3L
WAR VIII 22 16 41 17.5 51.4N 16.1E 3.3L
NEIC M_L3.4(VIE).
WAR Mining induced
(548) Poland
ISC VIII 22 19 48 08.6±.81 **50.49N**±.065 **18.89E**±.084 **0 16 1-12**
NEIC VIII 22 19 48 09.3 50.49N 18.89E 10 **¶97viii3276**
EIDC VIII 22 19 48 10.8 50.5N 18.6E 0 3.0L
WAR VIII 22 19 48 11.3 50.27N 18.92E 2.9L
NEIC MG2.9(WAR).
WAR Mining induced
(548) Poland
ISC VIII 22 20 18 42.4±.63 **50.55N**±.049 **18.87E**±.071 **0 20 1-12**
NEIC VIII 22 20 18 43.6 50.55N 18.99E 10 **¶97viii3280**
EIDC VIII 22 20 18 44.3 50.5N 18.8E 0 3.2L
WAR VIII 22 20 18 45.2 50.2N 18.9E 3.1L
NEIC M_L2.4(BRA).
WAR Mining induced
(536) Sweden
BER VIII 22 20 58 04.2 67.8N 19.9E 0 2.1D,1.2L ¶97viii3283
BER Probable explosion
(536) Sweden
BER VIII 22 23 40 30.3 67.9N 20.1E 0 2.5D ¶97viii3307
BER Probable explosion
(548) Poland
ISC VIII 23 01 16 12±1.9 **51.6N**±.13 **16.2E**±.13 **0 10 1-4**
NEIC VIII 23 01 16 14.6 51.47N 16.29E 5 **¶97viii3315**
WAR VIII 23 01 16 15.8 51.5N 16.1E 2.5L
NEIC M_L3.1(VIE), M_L2.8(GRF), Less reliable solution.
WAR Mining induced

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(548) Poland						
ISC	**VIII 23 06 02 49.9**±.82	**50.49N**±.068	**19.01E**±.085	**0**		**14**	**1-12**
NEIC	VIII 23 06 02 50.1	50.51N	18.98E	5			¶97viii3346
EIDC	VIII 23 06 02 51.0	50.4N	19.1E	0	3.3L		
WAR	VIII 23 06 02 52.4	50.3N	19.0E		2.8L		
NEIC	MG2.8(WAR).						
WAR	Mining induced						
	(543) Germany						
BUG	**VIII 23 06 40 01.9**	**51.7N**	**7.7E**	**1**	**1.6L**		¶97viii3357
BUG	Mining induced event						
	(543) Germany						
ISC	**VIII 23 06 44 25**±1.0	**51.62N**±.091	**7.77E**±.099	**0**		**8**	**0-2**
BUG	VIII 23 06 44 24.8	51.7N	7.7E	1	2.0L		¶97viii3358
SZGRF	VIII 23 06 44 27.5	51.6N	7.8E	1	2.2L		
BUG	Mining induced event						
	(722) Norway-USSR border region						
BER	**VIII 23 09 38 17.2**	**69.5N**	**31.1E**	**0**	**2.1D**		¶97viii3382
BER	Explosion						
	(543) Germany						
ISC	**VIII 23 18 17 56**±1.1	**51.41N**±.089	**6.6E**±.18	**0**		**6**	**0-2**
BUG	VIII 23 18 17 53.0	51.5N	6.5E	1	1.6L		¶97viii3433
BUG	Mining induced event						
	(536) Sweden						
BER	**VIII 23 18 21 18.4**	**67.8N**	**20.1E**	**0**	**2.3D,1.5L**		¶97viii3434
BER	Probable explosion						
	(548) Poland						
ISC	**VIII 23 19 47 13.5**±.69	**51.64N**±.051	**16.21E**±.084	**0**		**22**	**1-11**
NEIC	VIII 23 19 47 14.2	51.65N	16.15E	5			¶97viii3448
EIDC	VIII 23 19 47 14.8	51.5N	16.4E	0	3.6L		
WAR	VIII 23 19 47 17.7	51.5N	16.1E		2.8L		
NEIC	ML3.4(GRF), ML3.4(VIE).						
WAR	Mining induced						
	(548) Poland						
ISC	**VIII 23 20 18 20**±2.0	**50.4N**±.13	**18.8E**±.16	**0**		**9**	**1-4**
ISC	Possibly mining induced (after WAR)						¶97viii3450
	(548) Poland						
ISC	**VIII 24 14 04 34.9**±.73	**51.61N**±.055	**16.14E**±.088	**0**		**14**	**1-11**
NEIC	VIII 24 14 04 35.8	51.62N	16.15E	5			¶97viii3546
EIDC	VIII 24 14 04 36.7	51.5N	16.2E	0	2.9L		
WAR	VIII 24 14 04 38.2	51.5N	16.1E		2.5L		
NEIC	ML3.1(GRF).						
WAR	Mining induced						
	(536) Sweden						
BER	**VIII 24 23 45 45.9**	**67.6N**	**21.4E**	**0**	**2.3D**		¶97viii3606
BER	Probable explosion						
	(536) Sweden						
BER	**VIII 25 00 46 35.2**	**67.5N**	**21.6E**	**0**	**2.5D**		¶97viii3610
BER	Probable explosion						
	(548) Poland						
ISC	**VIII 25 06 57 48**±1.8	**51.4N**±.13	**16.11E**±.098	**0**		**9**	**1-3**
WAR	VIII 25 06 57 49.7	51.5N	16.1E		2.5L		¶97viii3663
NEIC	VIII 25 06 57 55.5	51.06N	15.85E	5			
WAR	Mining induced						
NEIC	Less reliable solution.						
	(723) Finland-USSR border region						
ISC	**VIII 25 10 16 29**±3.9	**60.9N**±.31	**28.7E**±.42	**0**		**4**	**1-8**
BER	VIII 25 10 16 33.7	60.9N	28.9E	0			¶97viii3679
ISC	Poorly determined						
BER	Probable explosion						
	(723) Finland-USSR border region						
ISC	**VIII 25 14 38 49**±4.0	**60.9N**±.32	**28.9E**±.43	**0**		**4**	**1-8**
BER	VIII 25 14 38 53.8	60.9N	28.9E	0			¶97viii3702
ISC	Poorly determined						
BER	Probable explosion						
	(535) Southern Norway						
ISC	**VIII 25 17 57 52**±1.3	**60.76N**±.081	**5.5E**±.26	**0**		**4**	**0-1**
BER	VIII 25 17 57 52.7	60.7N	5.6E	0	1.6D		¶97viii3721
ISC	Poorly determined						
BER	Probable explosion						
	(535) Southern Norway						
BER	**VIII 25 18 19 38.9**	**60.7N**	**5.1E**	**0**	**1.3D,1.0L**		¶97viii3722
BER	Probable explosion						
	(543) Germany						
ISC	**VIII 25 20 07 01.7**±.96	**51.62N**±.096	**7.79E**±.087	**0**		**10**	**0-3**
BUG	VIII 25 20 07 01.4	51.7N	7.7E	1	1.9L		¶97viii3737
SZGRF	VIII 25 20 07 03.2	51.6N	7.8E	1	2.2L		
BUG	Mining induced event						
	(543) Germany						
BUG	**VIII 25 20 08 42.5**	**51.7N**	**7.7E**	**1**	**1.6L**		¶97viii3738
BUG	Mining induced event						
	(460) Wyoming						
ISC	**VIII 25 21 11 01**±1.2	**43.6N**±.13	**106.2W**±.21	**0**		**4**	**3-20**
EIDC	VIII 25 21 11 03.8	43.6N	106.4W	0	3.5L		¶97viii3743
ISC	Probable mining explosion after NEIC, Poorly determined						
	(646) Northern Norway						
BER	**VIII 25 23 41 17.5**	**69.0N**	**18.4E**	**0**	**2.4D,1.6L**		¶97viii3753
BER	Probable explosion						
	(724) Western Russia						
ISC	**VIII 26 10 06 15**±9.6	**58.5N**±.70	**28.6E**±.89	**0**		**4**	**3-9**
BER	VIII 26 10 06 29.0	59.3N	27.7E	0			¶97viii3831
ISC	Poorly determined						
BER	Probable explosion						
	(535) Southern Norway						
ISC	**VIII 26 14 08 55**±2.1	**59.74N**±.077	**5.8E**±.51	**0**		**5**	**1-1**
BER	VIII 26 14 08 57.1	59.7N	5.2E	0	1.6D,1.2L		¶97viii3859
BER	Probable explosion						
	(724) Western Russia						
BER	**VIII 26 16 02 01.9**	**56.5N**	**26.1E**	**0**			¶97viii3873
BER	Probable explosion						
	(543) Germany						
BUG	**VIII 26 16 30 36.9**	**51.7N**	**7.7E**	**1**	**1.5L**		¶97viii3878
BUG	Mining induced event						
	(543) Germany						
ISC	**VIII 26 22 12 06**±1.1	**51.58N**±.093	**7.7E**±.11	**0**		**8**	**0-2**
BUG	VIII 26 22 12 04.9	51.7N	7.7E	1	2.1L		¶97viii3910
SZGRF	VIII 26 22 12 06.7	51.6N	7.8E	1	2.2L		
BUG	Mining induced event						
	(543) Germany						
BUG	**VIII 26 22 29 18.7**	**51.7N**	**7.7E**	**1**	**1.6L**		¶97viii3912
BUG	Mining induced event						
	(548) Poland						
ISC	**VIII 27 02 58 53**±2.1	**51.6N**±.15	**16.0E**±.11	**0**		**8**	**1-3**
NEIC	VIII 27 02 59 01.8	51.03N	15.75E	5			¶97viii3931
ISC	Possibly mining induced (after WAR)						
NEIC	Poor solution.						
	(543) Germany						
ISC	**VIII 27 04 14 54**±2.8	**51.8N**±.25	**7.6E**±.23	**0**		**7**	**0-3**
BUG	VIII 27 04 14 55.1	51.7N	7.7E	1	1.6L		¶97viii3939
SZGRF	VIII 27 04 14 56.2	51.6N	7.8E	1	2.2L		
BUG	Mining induced event						
	(379) Near south coast of France						
ISC	**VIII 27 09 57 55**±3.4	**43.1N**±.16	**5.3E**±.23	**0**		**12**	**0-2**
STR	VIII 27 09 58 00.9	43.48N	5.54E	1	3.1L		¶97viii3971
ISC	Possible rockburst (after LDG)						
	(721) Finland						
BER	**VIII 27 11 15 41.6**	**67.6N**	**28.6E**	**0**			¶97viii3982
BER	Probable explosion						
	(548) Poland						
ISC	**VIII 27 13 51 28**±2.1	**51.6N**±.15	**16.0E**±.12	**0**		**10**	**1-4**
WAR	VIII 27 13 51 30.8	51.5N	16.0E		2.6L		¶97viii3994
NEIC	VIII 27 13 51 34.8	51.14N	15.79E	5			
WAR	Mining induced						
NEIC	Less reliable solution.						
	(543) Germany						
BUG	**VIII 27 18 05 38.7**	**51.7N**	**7.7E**	**1**	**1.6L**		¶97viii4020
BUG	Mining induced event						
	(543) Germany						
BUG	**VIII 27 19 12 52.6**	**51.6N**	**6.9E**	**1**	**1.7L**		¶97viii4028
BUG	Mining induced event						
	(646) Northern Norway						
BER	**VIII 27 23 28 53.3**	**68.3N**	**19.7E**	**0**	**2.6D**		¶97viii4056
BER	Probable explosion						
	(548) Poland						
ISC	**VIII 28 05 24 16.9**±.63	**51.62N**±.048	**16.32E**±.065	**0**		**28**	**1-11**
NEIC	VIII 28 05 24 17.3	51.64N	16.29E	5			¶97viii4087
EIDC	VIII 28 05 24 18.9	51.6N	16.1E	0	3.5L		
WAR	VIII 28 05 24 21.3	51.5N	16.1E		3.0L		
SZGRF	VIII 28 05 24 21.3	51.4N	16.1E	1	3.3L		
NEIC	ML3.9(VIE)						
WAR	Mining induced						
	(543) Germany						
BUG	**VIII 28 10 21 06.4**	**51.7N**	**7.8E**	**1**	**1.3L**		¶97viii4115
BUG	Mining induced event						
	(723) Finland-USSR border region						
BER	**VIII 28 12 44 23.8**	**61.2N**	**29.8E**	**0**			¶97viii4134
BER	Probable explosion						
	(535) Southern Norway						
ISC	**VIII 28 13 18 41**±9.8	**58.4N**±.66	**6.2E**±.41	**0**		**6**	**1-3**
BER	VIII 28 13 18 39.7	58.1N	6.3E	0	2.4D,1.7L		¶97viii4138
BER	Probable explosion						
	(536) Sweden						
BER	**VIII 28 16 14 33.7**	**66.9N**	**21.6E**	**0**	**3.1D**		¶97viii4161
BER	Probable explosion						
	(548) Poland						
ISC	**VIII 28 20 37 57**±1.1	**51.47N**±.091	**16.15E**±.080	**0**		**26**	**1-5**
NEIC	VIII 28 20 37 57.6	51.45N	16.12E	5			¶97viii4182
WAR	VIII 28 20 37 58.3	51.5N	16.1E		3.1L		
SZGRF	VIII 28 20 37 58.3	51.4N	16.2E	1	3.3L		
NEIC	ML3.4(VIE).						
WAR	Mining induced						
	(536) Sweden						
BER	**VIII 28 23 31 21.1**	**67.7N**	**20.8E**	**0**	**2.7D**		¶97viii4199
BER	Probable explosion						
	(724) Western Russia						
BER	**VIII 29 08 59 58.8**	**64.5N**	**31.1E**	**0**			¶97viii4259
BER	Probable explosion						
	(543) Germany						
BUG	**VIII 29 09 22 09.6**	**51.5N**	**7.1E**	**1**	**0.8L**		¶97viii4267
BUG	Mining induced event						
	(535) Southern Norway						
BER	**VIII 29 09 34 07.1**	**62.9N**	**8.2E**	**0**	**1.9D,2.0L**		¶97viii4268
BER	Probable explosion						
	(536) Sweden						
BER	**VIII 29 10 44 42.7**	**65.4N**	**22.7E**	**0**			¶97viii4279
BER	Probable explosion						
	(721) Finland						
ISC	**VIII 29 10 47 57**±1.5	**63.1N**±.11	**27.5E**±.39	**0**		**5**	**2-8**
BER	VIII 29 10 48 00.6	63.1N	27.6E	0			¶97viii4281
BER	Probable explosion						
	(535) Southern Norway						
BER	**VIII 29 14 07 10.6**	**60.3N**	**5.2E**	**0**	**0.8D,0.7L**		¶97viii4319
BER	Probable explosion						
	(724) Western Russia						
ISC	**VIII 29 16 51 19**±3.5	**60.7N**±.26	**29.1E**±.37	**0**		**5**	**2-9**
BER	VIII 29 16 51 23.6	60.7N	29.1E	0			¶97viii4348
BER	Probable explosion						
	(543) Germany						
ISC	**VIII 29 21 13 54.1**±.74	**51.52N**±.072	**7.82E**±.072	**0**		**17**	**0-5**
BUG	VIII 29 21 13 54.4	51.7N	7.7E	1	2.2L		¶97viii4380
SZGRF	VIII 29 21 13 55.8	51.6N	7.7E	1	2.3L		
LDG	VIII 29 21 13 57.4	51.6N	7.8E		2.7L		
BUG	Mining induced event						
	(536) Sweden						
BER	**VIII 29 23 17 34.9**	**67.9N**	**20.5E**	**0**	**2.3D,1.5L**		¶97viii4393
BER	Probable explosion						
	(548) Poland						
ISC	**VIII 30 14 35 23**±1.7	**51.6N**±.13	**16.2E**±.12	**0**		**11**	**1-4**
NEIC	VIII 30 14 35 23.6	51.57N	16.21E	5			¶97viii4497
WAR	VIII 30 14 35 26.1	51.5N	16.1E		2.7L		
NEIC	ML3.1(VIE), Less reliable solution.						
WAR	Mining induced						
	(548) Poland						
ISC	**VIII 30 14 42 50.5**±.67	**51.66N**±.050	**16.24E**±.083	**0**		**24**	**1-11**
NEIC	VIII 30 14 42 51.1	51.67N	16.22E	5			¶97viii4499
EIDC	VIII 30 14 42 52.4	51.6N	16.4E	0	3.3L		
SZGRF	VIII 30 14 42 53.5	51.4N	16.2E	1	3.3L		
WAR	VIII 30 14 42 54.8	51.5N	16.1E		3.0L		
NEIC	ML3.6(VIE).						
WAR	Mining induced						

(536) Sweden
BER VIII 30 14 43 47.4 67.6N 20.4E 0 2.1D ¶97viii4500
BER Probable explosion
(548) Poland
ISC VIII 30 16 44 36±1.9 51.6N±.13 16.1E±.10 0 11 1-4
WAR VIII 30 16 44 40.0 51.5N 16.1E 2.6L **¶97viii4515**
NEIC VIII 30 16 44 44.1 51.16N 15.87E 5
WAR Mining induced
NEIC M_L3.1(VIE), Less reliable solution.
(536) Sweden
ISC VIII 30 23 29 24.4±.73 67.75N±.076 20.6E±.20 0 9 2-8
BER VIII 30 23 29 29.3 67.9N 20.6E 0 2.5D,1.8L **¶97viii4552**
BER Probable explosion
(536) Sweden
BER VIII 31 00 08 16.1 67.9N 20.5E 0 2.1D,1.3L ¶97viii4555
BER Probable explosion
(543) Germany
ISC VIII 31 01 34 16±2.0 51.5N±.11 7.7E±.20 0 5 0-1
BUG VIII 31 01 34 13.8 51.7N 7.7E 1 1.8L **¶97viii4568**
BUG Mining induced event
(724) Western Russia
BER VIII 31 06 57 36.9 67.9N 34.4E 0 3.7D ¶97viii4603
BER Probable explosion
(536) Sweden
BER VIII 31 23 29 52.9 67.8N 20.9E 0 2.7D ¶97viii4726
BER Probable explosion
(451) New Brunswick
ISC IX 01 09 46 32.6±.90 47.27N±.062 66.0W±.11 0 17 2-8
OTT IX 01 09 46 32.8 47.2N 66.0W 1 3.1N **¶97ix0089**
OTT Rockburst, Heath Steele Mine, New Brunswick
(535) Southern Norway
BER IX 01 14 41 17.4 62.3N 6.8E 0 1.4D ¶97ix0117
BER Probable explosion
(548) Poland
ISC IX 01 15 12 35±1.5 51.1N±.15 15.68E±.082 0 9 0-3
WAR IX 01 15 12 31.4 51.5N 16.0E 2.4L **¶97ix0126**
NEIC IX 01 15 12 35.9 51.15N 15.81E 5
WAR Mining induced
NEIC Poor solution.
(543) Germany
ISC IX 01 18 50 08±1.1 51.60N±.093 7.7E±.11 0 8 0-3
BUG IX 01 18 50 07.1 51.7N 7.7E 1 2.0L **¶97ix0152**
SZGRF IX 01 18 50 08.7 51.6N 7.8E 1 2.1L
BUG Mining induced event
(536) Sweden
BER IX 02 00 06 45.2 67.8N 20.6E 0 1.6L ¶97ix0182
BER Probable explosion
(536) Sweden
BER IX 02 00 08 54.2 67.9N 20.6E 0 2.4D,1.8L ¶97ix0183
BER Probable explosion
(548) Poland
ISC IX 02 00 21 41.8±.91 50.30N±.067 18.90E±.076 0 17 0-5
NEIC IX 02 00 21 42.9 50.19N 18.91E 10 **¶97ix0187**
WAR IX 02 00 21 43.3 50.25N 18.93E 3.0L
NEIC M_L2.8(CLL), Less reliable solution.
WAR Mining induced
(543) Germany
BUG IX 02 00 48 26.7 51.5N 7.1E 1 0.3L ¶97ix0192
BUG Mining induced event
(548) Poland
ISC IX 02 02 12 03±1.6 51.5N±.12 16.03E±.093 0 12 1-4
WAR IX 02 02 12 05.0 51.5N 16.1E 2.4L **¶97ix0205**
NEIC IX 02 02 12 06.7 51.26N 16.09E 5
WAR Mining induced
NEIC M_L3.1(VIE), Less reliable solution.
(536) Sweden
UPP IX 02 08 54 34 58.8N 15.1E ¶97ix0246
UPP Rockburst at the Zinkgruvan mine
(543) Germany
ISC IX 02 09 19 14±1.2 51.7N±.11 7.8E±.12 0 6 0-2
BUG IX 02 09 19 13.1 51.7N 7.9E 1 1.9L **¶97ix0250**
SZGRF IX 02 09 19 15.3 51.7N 7.9E 1 2.1L
BUG Mining induced event
(721) Finland
ISC IX 02 10 43 49±1.4 63.2N±.12 27.3E±.38 0 5 2-15
BER IX 02 10 43 50.8 63.1N 27.8E 0 **¶97ix0261**
BER Probable explosion
(536) Sweden
ISC IX 02 23 28 48±2.2 67.8N±.20 20.6E±.49 0 4 2-3
BER IX 02 23 28 52.4 67.9N 20.5E 0 2.0D,1.6L **¶97ix0346**
ISC Poorly determined
BER Probable explosion
(536) Sweden
BER IX 02 23 32 09.0 67.9N 20.8E 0 2.3D ¶97ix0347
BER Probable explosion
(535) Southern Norway
BER IX 03 19 05 00.8 60.6N 5.3E 0 1.3D ¶97ix0464
BER Probable explosion
(548) Poland
ISC IX 03 19 12 25±2.0 51.1N±.18 15.9E±.13 0 8 1-3
ISC Possibly mining induced (after WAR) **¶97ix0465**
(543) Germany
ISC IX 03 19 59 31.6±.94 51.6N±.10 7.8E±.10 0 7 0-3
BUG IX 03 19 59 30.7 51.7N 7.7E 1 1.9L **¶97ix0474**
SZGRF IX 03 19 59 32.0 51.6N 7.8E 1 2.0L
BUG Mining induced event
(543) Germany
ISC IX 03 21 48 49.4±.28 49.14N±.025 6.71E±.038 0 72 1-7
SZGRF IX 03 21 48 50.4 49.1N 6.7E 1 3.1L **¶97ix0496**
NEIC IX 03 21 48 50.6 49.13N 6.71E 10
STR IX 03 21 48 51.4 49.14N 6.84E 1 3.0L
UCC IX 03 21 48 51.5 49.12N 6.89E 8 3.1L
LDG IX 03 21 48 52.0 49.2N 6.8E 3.3L
LEDBW IX 03 21 48 52.9 49.22N 6.95E 1 2.9L
NEIC M_L3.1(UCC).
NEIC ML 3.1 (VIE). Mining induced event in the Lorraine region, France.
LEDBW Mining induced event
(543) Germany
BUG IX 03 22 29 11.4 51.7N 7.7E 1 1.7L ¶97ix0503
BUG Mining induced event
(536) Sweden
BER IX 03 23 29 49.5 67.9N 21.1E 0 2.5D,2.0L ¶97ix0511
BER Probable explosion
(543) Germany
ISC IX 04 06 15 54±1.1 51.64N±.092 7.7E±.12 0 7 0-2
BUG IX 04 06 15 54.0 51.6N 7.7E 1 1.7L **¶97ix0554**
SZGRF IX 04 06 15 55.8 51.6N 7.8E 1 2.1L
BUG Mining induced event
(383) Northwestern Balkan region
ISC IX 04 10 51 21±7.6 46.3N±.14 16.0E±.69 0 4 0-1
LJU IX 04 10 51 20.1 46.24N 16.0E 0 **¶97ix0579**
ISC Poorly determined
LJU Quarry blast
(723) Finland-USSR border region
ISC IX 04 12 14 56±3.4 61.1N±.24 29.8E±.36 0 8 2-9
EIDC IX 04 12 14 58.1 60.8N 29.8E 0 3.5L **¶97ix0583**
BER IX 04 12 15 01.1 61.1N 29.9E 0
BER Probable explosion
(548) Poland
ISC IX 04 14 23 51.0±.71 50.52N±.058 18.89E±.076 0 18 1-12
NEIC IX 04 14 23 51.0 50.48N 19.04E 5 **¶97ix0603**
EIDC IX 04 14 23 53.1 50.4N 18.8E 0 3.5L
WAR IX 04 14 23 53.8 50.3N 18.9E 3.1L
NEIC M_L3.0(CLL).
WAR Mining induced
(548) Poland
ISC IX 04 14 30 40.7±.68 51.65N±.050 16.09E±.075 0 23 1-11
NEIC IX 04 14 30 41.1 51.68N 16.18E 5 **¶97ix0604**
EIDC IX 04 14 30 42.7 51.7N 16.1E 0 3.4L
WAR IX 04 14 30 44.5 51.5N 16.0E 3.1L
NEIC M_L3.7(VIE).
WAR Mining induced
(548) Poland
ISC IX 04 20 47 29±3.1 51.6N±.21 16.2E±.17 0 13 1-4
WAR IX 04 20 47 32.1 51.4N 16.2E 2.5L **¶97ix0632**
NEIC IX 04 20 47 36.0 51.12N 15.89E 5
WAR Mining induced
NEIC M_L3.1(VIE), Less reliable solution.
(536) Sweden
BER IX 04 23 19 18.2 67.8N 20.2E 0 2.1D ¶97ix0650
BER Probable explosion
(536) Sweden
BER IX 04 23 26 15.7 67.8N 20.2E 0 2.1D,1.6L ¶97ix0652
BER Probable explosion
(543) Germany
BUG IX 05 00 36 31.5 51.7N 7.7E 1 1.5L ¶97ix0658
BUG Mining induced event
(548) Poland
ISC IX 05 01 26 31.0±.55 51.70N±.040 16.24E±.072 0 35 1-18
NEIC IX 05 01 26 31.4 51.73N 16.23E 5 **¶97ix0667**
EIDC IX 05 01 26 32.5 51.6N 16.7E 0 3.4L
SZGRF IX 05 01 26 33.9 51.4N 16.3E 1 3.6L
WAR IX 05 01 26 35.8 51.5N 16.0E 3.2L
NEIC M_L3.6(VIE).
WAR Mining induced
(536) Sweden
BER IX 05 04 07 14.5 67.4N 20.3E 0 2.5D,1.9L ¶97ix0690
BER Probable explosion
(535) Southern Norway
BER IX 05 07 33 49.4 60.8N 5.1E 0 1.3D ¶97ix0709
BER Probable explosion
(543) Germany
BUG IX 05 09 30 05.2 51.6N 7.2E 1 0.6L ¶97ix0726
BUG Mining induced event
(724) Western Russia
ISC IX 05 10 37 27±1.8 67.66N±.082 34.6E±.42 0 9 1-12
EIDC IX 05 10 37 31.9 67.7N 34.0E 0 3.3L **¶97ix0735**
BER IX 05 10 37 32.9 67.6N 33.9E 0
BER Probable explosion
(383) Northwestern Balkan region
LJU IX 05 10 59 58.6 46.1N 14.8E 0 ¶97ix0738
LJU Quarry blast
(548) Poland
ISC IX 05 19 28 22.5±.54 51.65N±.041 16.23E±.089 0 22 1-18
NEIC IX 05 19 28 23.1 51.65N 16.20E 5 **¶97ix0788**
EIDC IX 05 19 28 24.5 51.6N 16.1E 0 3.4L
WAR IX 05 19 28 27.0 51.47N 16.08E 2.7L
NEIC M_L3.3(VIE), M_L3.2(GRF).
WAR Mining induced
(543) Germany
ISC IX 05 22 49 53.0±.95 51.58N±.091 7.78E±.086 0 8 0-3
BUG IX 05 22 49 52.5 51.7N 7.7E 1 1.9L **¶97ix0807**
SZGRF IX 05 22 49 54.5 51.6N 7.8E 1 2.1L
BUG Mining induced event
(536) Sweden
BER IX 05 23 23 49.9 67.8N 20.2E 0 1.5L ¶97ix0810
BER Probable explosion
(536) Sweden
BER IX 05 23 26 26.0 67.8N 20.1E 0 1.4L ¶97ix0811
BER Probable explosion
(536) Sweden
BER IX 05 23 28 56.5 67.9N 20.1E 0 1.4L ¶97ix0812
BER Probable explosion
(536) Sweden
BER IX 05 23 30 30.6 67.9N 20.1E 0 1.5L ¶97ix0813
BER Probable explosion
(548) Poland
ISC IX 06 12 54 43.6±.59 51.69N±.047 16.21E±.089 0 24 1-18
NEIC IX 06 12 54 44.1 51.69N 16.24E 5 **¶97ix0914**
EIDC IX 06 12 54 44.9 51.6N 16.5E 0 3.4L
SZGRF IX 06 12 54 45.2 51.6N 16.2E 1 3.3L
WAR IX 06 12 54 48.0 51.5N 16.1E 2.8L
NEIC M_L3.6(VIE)
WAR Mining induced
(543) Germany
BUG IX 06 13 11 28.8 51.7N 7.7E 1 1.5L ¶97ix0916
BUG Mining induced event
(535) Southern Norway
ISC IX 06 17 04 48±2.3 62.4N±.19 7.0E±.33 0 5 0-4
BER IX 06 17 04 49.9 62.4N 7.0E 0 1.7D,1.7L **¶97ix0947**
BER Probable explosion

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(548) Poland						
ISC	**IX 06 19 34 49.3**±.71	**51.62N**±.054	**16.17E**±.093	**0**		**15**	**1-11**
NEIC	IX 06 19 34 49.4	51.60N	16.26E	5			¶97ix0958
EIDC	IX 06 19 34 50.8	51.5N	16.5E	0	3.2L		
WAR	IX 06 19 34 53.2	51.5N	16.1E		2.4L		
NEIC	M_L3.1(VIE).						
WAR	Mining induced						
	(548) Poland						
ISC	**IX 06 22 57 18.2**±.64	**51.62N**±.048	**16.10E**±.078	**0**		**14**	**1-19**
NEIC	IX 06 22 57 19.7	51.72N	15.73E	5			¶97ix0981
EIDC	IX 06 22 57 20.6	51.6N	16.1E	0	3.1L		
WAR	IX 06 22 57 21.2	51.5N	16.1E		2.1L		
NEIC	Less reliable solution.						
WAR	Mining induced						
	(536) Sweden						
BER	**IX 06 23 25 40.7**	**68.0N**	**20.5E**	**0**	**1.9L**		**¶97ix0985**
BER	Probable explosion						
	(543) Germany						
ISC	**IX 07 05 18 50**±1.1	**51.48N**±.082	**7.0E**±.13	**0**		**5**	**0-9**
BUG	IX 07 05 18 48.4	51.5N	7.1E	1	0.9L		¶97ix1016
BUG	Mining induced event						
	(548) Poland						
ISC	**IX 07 19 36 18.1**±.71	**51.62N**±.053	**16.15E**±.087	**0**		**16**	**1-11**
NEIC	IX 07 19 36 18.3	51.60N	16.28E	5			¶97ix1117
EIDC	IX 07 19 36 20.0	51.5N	16.0E	0	3.1L		
WAR	IX 07 19 36 22.1	51.5N	16.1E		2.4L		
NEIC	M_L3.1(VIE), Less reliable solution.						
WAR	Mining induced						
	(536) Sweden						
BER	**IX 07 23 18 53.0**	**67.8N**	**20.0E**	**0**	**2.0D**		**¶97ix1139**
BER	Probable explosion						
	(536) Sweden						
BER	**IX 07 23 30 12.1**	**67.9N**	**20.0E**	**0**	**1.8L**		**¶97ix1141**
BER	Probable explosion						
	(721) Finland						
ISC	**IX 08 10 43 10**±1.2	**63.2N**±.11	**27.1E**±.33	**0**		**8**	**2-8**
EIDC	IX 08 10 43 00.5	63.1N	28.6E	0	2.4L		¶97ix1210
BER	IX 08 10 43 12.6	63.0N	27.7E	0			
BER	Probable explosion						
	(548) Poland						
ISC	**IX 08 13 32 47**±1.2	**50.5N**±.10	**18.86E**±.087	**0**		**11**	**1-3**
ISC	Possibly mining induced (after WAR)						¶97ix1225
	(536) Sweden						
ISC	**IX 08 16 04 59**±1.3	**67.1N**±.13	**21.0E**±.40	**0**		**5**	**3-8**
BER	IX 08 16 05 02.2	67.2N	20.9E	0			¶97ix1244
BER	Probable explosion						
	(536) Sweden						
BER	**IX 08 23 18 40.8**	**67.8N**	**20.2E**	**0**	**2.1D,1.5L**		**¶97ix1295**
BER	Probable explosion						
	(548) Poland						
ISC	**IX 09 08 33 07.0**±.55	**51.60N**±.042	**16.23E**±.088	**0**		**20**	**1-19**
NEIC	IX 09 08 33 07.9	51.62N	16.22E	5			¶97ix1343
EIDC	IX 09 08 33 08.9	51.5N	16.1E	0	3.3L		
WAR	IX 09 08 33 10.7	51.5N	16.1E		3.0L		
NEIC	M_L3.8(VIE).						
WAR	Mining induced						
	(383) Northwestern Balkan region						
LJU	**IX 09 11 41 23.4**	**46.0N**	**14.5E**	**0**			**¶97ix1371**
LJU	Quarry blast						
	(724) Western Russia						
BER	**IX 09 14 18 56.6**	**59.8N**	**25.5E**	**0**			**¶97ix1391**
BER	Probable explosion						
	(460) Wyoming						
EIDC	**IX 09 21 20 04.2**	**43.9N**	**105.6W**	**0**	**3.5L**		**¶97ix1440**
NEIC	Probable mining explosion						
	(536) Sweden						
ISC	**IX 09 23 17 27**±2.1	**67.8N**±.20	**20.5E**±.48	**0**		**4**	**2-3**
BER	IX 09 23 17 30.6	67.9N	20.7E	0	2.4D,2.1L		¶97ix1453
ISC	Poorly determined						
BER	Probable explosion						
	(536) Sweden						
BER	**IX 09 23 34 38.2**	**67.8N**	**20.1E**	**0**	**1.7L**		**¶97ix1454**
BER	Probable explosion						
	(721) Finland						
ISC	**IX 10 09 52 13**±1.8	**60.2N**±.21	**22.0E**±.19	**0**		**8**	**2-9**
EIDC	IX 10 09 52 12.0	59.9N	22.2E	0	3.3L		¶97ix1510
BER	IX 10 09 52 12.6	59.7N	22.4E	0			
BER	Probable explosion						
	(723) Finland-USSR border region						
BER	**IX 10 10 57 11.7**	**61.9N**	**30.5E**	**0**			**¶97ix1512**
EIDC	IX 10 10 57 12.9	61.8N	30.2E	0	2.9L		
BER	Probable explosion						
	(535) Southern Norway						
BER	**IX 10 13 18 56.2**	**58.2N**	**6.4E**	**0**	**1.9D**		**¶97ix1526**
BER	Explosion						
	(724) Western Russia						
BER	**IX 10 14 16 37.7**	**56.4N**	**26.3E**	**0**			**¶97ix1529**
BER	Probable explosion						
	(536) Sweden						
ISC	**IX 10 15 29 08.2**±.90	**67.01N**±.086	**21.0E**±.25	**0**	2.8b	**8**	**2-24**
EIDC	IX 10 15 29 11.1	67.0N	21.4E	0	2.9L,2.9b		¶97ix1542
BER	IX 10 15 29 13.4	67.3N	20.6E	0	2.7D		
BER	Probable explosion						
	(535) Southern Norway						
BER	**IX 10 18 30 46.1**	**62.5N**	**6.5E**	**0**	**1.6D**		**¶97ix1558**
BER	Probable explosion						
	(535) Southern Norway						
BER	**IX 11 14 20 56.3**	**60.4N**	**4.8E**	**0**	**1.7D**		**¶97ix1688**
BER	Probable explosion						
	(536) Sweden						
BER	**IX 11 23 19 03.3**	**67.9N**	**20.7E**	**0**	**2.1D,1.7L**		**¶97ix1744**
BER	Probable explosion						
	(536) Sweden						
ISC	**IX 11 23 31 22**±2.3	**67.8N**±.20	**20.7E**±.50	**0**		**4**	**2-3**
BER	IX 11 23 31 26.5	67.9N	20.7E	0	2.2D,1.7L		¶97ix1745
ISC	Poorly determined						
BER	Probable explosion						
	(723) Finland-USSR border region						
ISC	**IX 12 09 03 48**±1.4	**64.79N**±.090	**30.1E**±.39	**0**		**8**	**3-9**
EIDC	IX 12 09 03 48.8	64.8N	30.2E	0	3.0L		¶97ix1793
BER	IX 12 09 03 50.3	64.7N	30.6E	0			
BER	Probable explosion						
	(543) Germany						
BUG	**IX 12 10 20 43.4**	**51.7N**	**7.7E**	**1**	**1.5L**		**¶97ix1802**
BUG	Mining induced event						
	(548) Poland						
ISC	**IX 12 16 20 24.6**±.51	**51.72N**±.038	**16.17E**±.077	**0**		**34**	**1-18**
NEIC	IX 12 16 20 25.0	51.72N	16.20E	5			¶97ix1842
EIDC	IX 12 16 20 26.3	51.7N	16.2E	0	3.5L		
SZGRF	IX 12 16 20 26.7	51.5N	16.3E	1	3.8L		
WAR	IX 12 16 20 29.3	51.5N	16.0E		3.3L		
NEIC	M_L3.6(VIE).						
WAR	Mining induced						
	(536) Sweden						
BER	**IX 12 18 41 11.4**	**68.1N**	**20.5E**	**0**	**2.3D**		**¶97ix1859**
BER	Probable explosion						
	(543) Germany						
BUG	**IX 13 07 04 37.5**	**51.7N**	**7.8E**	**1**	**1.3L**		**¶97ix1941**
BUG	Mining induced event						
	(721) Finland						
ISC	**IX 13 09 12 00.1**±.94	**60.1N**±.13	**21.9E**±.15	**0**		**9**	**2-21**
EIDC	IX 13 09 11 31.5	57.1N	24.1E	0	3.3L		¶97ix1959
BER	IX 13 09 11 33.5	57.1N	24.0E	0			
BER	Probable explosion						
	(543) Germany						
BUG	**IX 13 12 51 48.7**	**51.7N**	**7.7E**	**1**	**1.8L**		**¶97ix1971**
SZGRF	IX 13 12 51 51.2	51.6N	7.8E	1	2.0L		
BUG	Mining induced event						
	(543) Germany						
ISC	**IX 13 13 27 08**±1.8	**51.6N**±.15	**7.8E**±.11	**0**		**6**	**0-3**
BUG	IX 13 13 27 08.1	51.7N	7.7E	1	1.9L		¶97ix1977
SZGRF	IX 13 13 27 10.7	51.6N	7.8E	1	2.1L		
BUG	Mining induced event						
	(548) Poland						
ISC	**IX 13 18 37 56**±1.9	**51.6N**±.14	**16.2E**±.12	**0**		**11**	**1-4**
ISC	ML3.0 (MOA), possibly mining induced (after WAR)						¶97ix2013
	(548) Poland						
ISC	**IX 13 19 21 48**±1.7	**51.5N**±.13	**16.1E**±.10	**0**		**11**	**1-3**
ISC	Possibly mining induced (after WAR)						¶97ix2023
	(543) Germany						
BUG	**IX 13 20 59 14.0**	**51.6N**	**7.6E**	**1**	**1.3L**		**¶97ix2036**
BUG	Mining induced event						
	(536) Sweden						
BER	**IX 13 23 23 34.8**	**67.9N**	**20.7E**	**0**	**2.0D,1.9L**		**¶97ix2047**
BER	Probable explosion						
	(724) Western Russia						
ISC	**IX 14 03 36 54**±2.0	**67.60N**±.082	**34.6E**±.45	**0**		**9**	**1-12**
BER	IX 14 03 37 00.9	67.7N	33.8E	0			¶97ix2065
EIDC	IX 14 03 37 02.6	67.5N	33.1E	0	3.2L		
BER	Probable explosion						
	(548) Poland						
ISC	**IX 14 05 47 58**±2.6	**51.4N**±.18	**16.0E**±.14	**0**		**8**	**1-3**
ISC	Possibly mining induced (after WAR)						¶97ix2080
	(724) Western Russia						
BER	**IX 15 09 31 38.3**	**57.1N**	**24.1E**	**0**			**¶97ix2223**
EIDC	IX 15 09 31 37.0	57.1N	24.0E	0	3.2L		
BER	Probable explosion						
	(548) Poland						
ISC	**IX 15 11 22 54**±2.1	**51.6N**±.15	**16.2E**±.10	**0**		**11**	**1-4**
WAR	IX 15 11 22 58.6	51.5N	16.1E		2.5L		¶97ix2236
NEIC	IX 15 11 23 02.7	51.15N	15.84E	5			
WAR	Mining induced						
NEIC	M_L3.3(VIE), Less reliable solution.						
	(724) Western Russia						
EIDC	**IX 15 11 43 40.0**	**57.4N**	**24.0E**	**0**	**3.5L**		**¶97ix2238**
BER	IX 15 11 43 35.6	56.9N	24.3E	0			
BER	Probable explosion						
	(535) Southern Norway						
BER	**IX 15 14 55 51.7**	**59.7N**	**5.3E**	**0**	**1.6D**		**¶97ix2256**
BER	Probable explosion						
	(724) Western Russia						
ISC	**IX 15 15 05 43**±1.5	**57.7N**±.12	**23.3E**±.24	**0**		**7**	**4-11**
BER	IX 15 15 05 37.6	57.0N	24.1E	0			¶97ix2257
EIDC	IX 15 15 05 43.6	57.5N	23.8E	0	3.3L		
BER	Probable explosion						
	(536) Sweden						
BER	**IX 15 23 28 20.2**	**67.9N**	**20.2E**	**0**	**2.1D,1.6L**		**¶97ix2294**
BER	Probable explosion						
	(724) Western Russia						
ISC	**IX 16 08 32 55**±1.8	**56.9N**±.13	**24.3E**±.31	**0**		**6**	**5-13**
BER	IX 16 08 33 00.3	56.9N	24.2E	0			¶97ix2352
BER	Probable explosion						
	(724) Western Russia						
BER	**IX 16 11 55 22.9**	**56.9N**	**24.3E**	**0**			**¶97ix2379**
EIDC	IX 16 11 55 26.6	57.3N	23.8E	0	3.2L		
BER	Probable explosion						
	(724) Western Russia						
BER	**IX 16 13 51 38.3**	**56.5N**	**26.2E**	**0**			**¶97ix2395**
BER	Probable explosion						
	(383) Northwestern Balkan region						
ISC	**IX 16 16 29 17**±1.4	**46.65N**±.076	**15.2E**±.18	**0**		**4**	**0-1**
LJU	IX 16 16 29 17.6	46.7N	15.3E	0			¶97ix2408
ISC	ML2.2(after ARSA), ML2.5(after MOA), Poorly determined						
LJU	Quarry blast						
	(543) Germany						
BUG	**IX 16 21 16 31.9**	**51.6N**	**7.7E**	**1**	**1.5L**		**¶97ix2428**
BUG	Mining induced event						
	(536) Sweden						
BER	**IX 16 23 40 21.4**	**67.9N**	**20.7E**	**0**	**1.9D,1.6L**		**¶97ix2441**
BER	Probable explosion						
	(543) Germany						
ISC	**IX 17 02 54 41**±1.7	**51.6N**±.20	**7.7E**±.13	**0**		**8**	**0-3**
BUG	IX 17 02 54 40.7	51.6N	7.7E	1	2.0L		¶97ix2459
SZGRF	IX 17 02 54 41.9	51.6N	7.8E	1	2.1L		
BUG	Mining induced event						
	(543) Germany						
ISC	**IX 17 04 12 34.5**±.77	**51.47N**±.061	**6.6E**±.11	**0**		**17**	**0-6**
BUG	IX 17 04 12 34.9	51.6N	6.7E	1	1.9L		¶97ix2463
NEIC	IX 17 04 12 35.1	51.51N	6.78E	10			
LDG	IX 17 04 12 36.4	51.6N	6.8E		2.7L		

UCC IX 17 04 13 01.2 50.61N 6.01E 10 2.3L
BUG Mining induced event
NEIC ML2.6(STR), Less reliable solution.
NEIC ML 2.3 (DBN), 2.3 (UCC).
(724) Western Russia
BER IX 17 15 10 57.6 67.6N 33.9E 0 ¶97ix2525
BER Probable explosion
(548) Poland
ISC IX 17 19 11 47.6±.58 51.64N±.046 16.27E±.084 0 23 1-18
NEIC IX 17 19 11 49.1 51.55N 16.25E 5 **¶97ix2547**
EIDC IX 17 19 11 49.7 51.5N 16.2E 0 3.6L
WAR IX 17 19 11 52.0 51.47N 16.08E 2.8L
NEIC ML3.4(VIE), ML3.4(GRF).
WAR Mining induced
(543) Germany
ISC IX 17 19 58 19.0±.76 49.33N±.045 6.93E±.088 0 14 0-4
LEDBW IX 17 19 58 19.9 49.38N 6.85E 1 2.1L **¶97ix2550**
NEIC IX 17 19 58 20.7 49.41N 6.94E 10
UCC IX 17 19 58 32.2 49.67N 6.15E 15 1.7L
LEDBW Mining induced event
NEIC Less reliable solution.
(543) Germany
BUG IX 17 22 45 33.3 51.7N 7.7E 1 1.6L ¶97ix2567
BUG Mining induced event
(536) Sweden
ISC IX 17 23 28 58.7±.82 67.74N±.082 20.4E±.25 0 7 2-8
BER IX 17 23 29 03.8 67.9N 20.6E 0 2.2D,1.9L **¶97ix2577**
BER Probable explosion
(536) Sweden
BER IX 17 23 31 35.7 68.0N 20.4E 0 2.3D,1.8L ¶97ix2579
BER Probable explosion
(548) Poland
ISC IX 18 03 02 05.1±.98 50.37N±.090 18.90E±.075 0 14 1-4
WAR IX 18 03 02 06.9 50.3N 18.9E 3.0L **¶97ix2601**
WAR Mining induced
(721) Finland
BER IX 18 09 09 56.1 60.8N 22.0E 0 ¶97ix2635
BER Probable explosion
(724) Western Russia
BER IX 18 09 15 54.8 56.3N 22.8E 0 ¶97ix2637
BER Probable explosion
(548) Poland
ISC IX 18 11 03 31±2.1 51.6N±.15 16.2E±.11 0 10 1-3
WAR IX 18 11 03 34.5 51.5N 16.1E 2.3L **¶97ix2649**
NEIC IX 18 11 03 39.8 51.07N 15.85E 5
WAR Mining induced
NEIC MG2.3(WAR), Less reliable solution.
(724) Western Russia
ISC IX 18 12 34 31±3.8 60.8N±.24 29.3E±.44 0 7 2-9
EIDC IX 18 12 34 29.6 60.6N 29.7E 0 3.6L **¶97ix2656**
BER IX 18 12 34 37.3 60.9N 29.1E 0
BER Probable explosion
(536) Sweden
BER IX 18 15 29 59.7 66.8N 21.8E 0 2.4D ¶97ix2680
BER Probable explosion
(535) Southern Norway
BER IX 18 15 56 57.7 60.9N 5.1E 0 0.9D,1.4L ¶97ix2683
BER Probable explosion
(543) Germany
ISC IX 19 01 51 01.5±.85 49.31N±.052 6.9E±.11 0 9 0-2
LEDBW IX 19 01 51 02.5 49.37N 6.95E 1 2.1L **¶97ix2735**
UCC IX 19 01 51 14.7 49.67N 6.15E 10 1.4L
LEDBW Mining induced event
(548) Poland
ISC IX 19 02 35 08.7±.55 51.65N±.041 16.24E±.075 0 30 1-18
NEIC IX 19 02 35 09.0 51.64N 16.28E 5 **¶97ix2740**
EIDC IX 19 02 35 10.4 51.6N 16.1E 0 3.3L
SZGRF IX 19 02 35 10.5 51.5N 16.3E 1 3.3L
WAR IX 19 02 35 12.7 51.5N 16.1E 2.8L
NEIC ML3.3(VIE).
WAR Mining induced
(724) Western Russia
ISC IX 19 10 48 49±3.2 60.9N±.21 29.0E±.35 0 7 2-9
EIDC IX 19 10 48 51.8 60.9N 29.0E 0 3.4L **¶97ix2783**
BER IX 19 10 48 54.4 61.0N 29.0E 0
BER Probable explosion
(383) Northwestern Balkan region
ISC IX 19 10 57 15±2.7 46.24N±.071 15.9E±.28 0 6 0-1
LJU IX 19 10 57 14.8 46.2N 16.0E 0 **¶97ix2784**
LJU Quarry blast
(548) Poland
ISC IX 20 03 20 22.4±.51 50.49N±.041 18.98E±.062 0 24 1-19
NEIC IX 20 03 20 23.2 50.49N 18.97E 5 **¶97ix2888**
EIDC IX 20 03 20 24.1 50.4N 18.9E 0 3.6L
WAR IX 20 03 20 25.5 50.3N 19.0E 3.3L
NEIC ML3.3(VIE), ML3.0(CLL).
WAR Mining induced
(543) Germany
ISC IX 20 04 35 45±1.2 51.6N±.10 7.7E±.13 0 7 0-2
BUG IX 20 04 35 43.4 51.7N 7.7E 1 2.0L **¶97ix2900**
SZGRF IX 20 04 35 46.0 51.6N 7.7E 1 2.0L
BUG Mining induced event
(536) Sweden
BER IX 20 06 58 45.8 67.8N 20.1E 0 2.0D ¶97ix2912
BER Probable explosion
(536) Sweden
ISC IX 20 14 03 49.8±.92 66.99N±.082 21.0E±.30 0 6 2-8
EIDC IX 20 14 03 51.7 67.0N 21.6E 0 2.8L **¶97ix2950**
BER IX 20 14 03 55.0 67.2N 21.0E 0 2.7D
BER Probable explosion
(543) Germany
BUG IX 20 15 32 19.7 51.6N 7.7E 1 1.6L ¶97ix2953
BUG Mining induced event
(548) Poland
ISC IX 20 18 44 16±1.1 51.45N±.090 16.20E±.090 0 26 1-6
NEIC IX 20 18 44 15.6 51.49N 16.18E 5 **¶97ix2986**
WAR IX 20 18 44 17.3 51.5N 16.1E 3.0L
SZGRF IX 20 18 44 17.8 51.4N 16.1E 1 3.4L
NEIC ML3.7(VIE).
WAR Mining induced
(536) Sweden
BER IX 20 20 09 18.0 67.8N 20.1E 0 2.4D ¶97ix2998
BER Probable explosion
(536) Sweden
BER IX 20 23 29 08.4 67.9N 20.0E 0 2.1D ¶97ix3012
BER Probable explosion
(724) Western Russia
ISC IX 21 03 12 53±2.0 67.67N±.084 34.4E±.45 0 9 1-12
BER IX 21 03 12 58.6 67.7N 33.9E 0 **¶97ix3035**
EIDC IX 21 03 12 59.7 67.6N 33.4E 0 3.0L
BER Probable explosion
(543) Germany
BUG IX 21 10 05 41.3 51.7N 7.7E 1 1.5L ¶97ix3081
BUG Mining induced event
(543) Germany
BUG IX 21 11 26 38.8 51.6N 7.7E 1 1.2L ¶97ix3090
BUG Mining induced event
(536) Sweden
BER IX 21 20 19 50.3 67.8N 20.1E 0 2.2D,1.6L ¶97ix3155
BER Probable explosion
(548) Poland
ISC IX 21 21 31 10±1.7 50.0N±.12 18.6E±.19 0 9 1-12
NEIC IX 21 21 31 10.7 50.09N 18.54E 5 **¶97ix3165**
EIDC IX 21 21 31 13.2 50.1N 18.3E 0 3.0L
ISC Possibly mining induced (after WAR)
NEIC ML2.7(VIE), Poor solution.
(536) Sweden
BER IX 21 22 28 40.2 67.8N 20.2E 0 2.1D,1.7L ¶97ix3175
BER Probable explosion
(536) Sweden
ISC IX 21 23 27 39.0±.81 67.88N±.081 20.2E±.30 0 7 2-8
BER IX 21 23 27 42.6 67.9N 20.4E 0 2.5D,1.8L **¶97ix3184**
BER Probable explosion
(536) Sweden
BER IX 22 01 58 08.2 67.8N 20.2E 0 2.0D,1.7L ¶97ix3198
BER Probable explosion
(548) Poland
ISC IX 22 03 19 12±1.9 51.6N±.14 16.1E±.11 0 10 1-4
NEIC IX 22 03 19 18.2 51.28N 15.90E 5 **¶97ix3203**
ISC Possibly mining induced (after WAR)
NEIC ML3.1(VIE), Less reliable solution.
(724) Western Russia
BER IX 22 09 23 32.8 55.1N 30.4E 0 ¶97ix3256
BER Probable explosion
(724) Western Russia
BER IX 22 12 34 30.7 59.3N 28.0E 0 ¶97ix3279
BER Probable explosion
(535) Southern Norway
BER IX 22 14 22 48.6 60.6N 5.3E 0 1.2D ¶97ix3293
BER Probable explosion
(535) Southern Norway
ISC IX 22 15 01 09±1.4 60.76N±.082 5.6E±.26 0 4 0-1
BER IX 22 15 01 10.5 60.7N 5.6E 0 1.6D **¶97ix3297**
ISC Poorly determined
BER Probable explosion
(543) Germany
LEDBW IX 22 18 23 24.8 49.39N 6.91E 1 1.8L ¶97ix3313
LEDBW Mining induced event
(536) Sweden
BER IX 22 18 42 27.8 67.8N 20.2E 0 1.7L ¶97ix3316
BER Probable explosion
(536) Sweden
BER IX 22 23 20 23.1 67.8N 20.1E 0 2.0D,1.8L ¶97ix3337
BER Probable explosion
(536) Sweden
BER IX 22 23 22 24.8 67.8N 20.1E 0 2.1D,1.7L ¶97ix3338
BER Probable explosion
(536) Sweden
BER IX 22 23 29 45.8 67.8N 20.3E 0 1.7L ¶97ix3339
BER Probable explosion
(543) Germany
BUG IX 23 02 59 58.6 51.7N 7.7E 1 1.7L ¶97ix3365
BUG Mining induced event
(536) Sweden
ISC IX 23 08 00 34±3.3 57.6N±.31 11.6E±.17 0 9 3-14
BER IX 23 08 00 39.5 57.9N 11.5E 0 1.8L **¶97ix3393**
BER Probable explosion
(536) Sweden
ISC IX 23 08 14 26±4.0 57.6N±.36 11.5E±.19 0 7 3-13
BER IX 23 08 14 31.9 57.8N 11.4E 0 1.7L **¶97ix3397**
BER Probable explosion
(724) Western Russia
BER IX 23 12 11 26.6 59.2N 27.6E 0 ¶97ix3414
BER Probable explosion
(724) Western Russia
ISC IX 23 12 47 25±2.8 60.9N±.20 29.0E±.29 0 9 2-18
EIDC IX 23 12 47 29.2 61.1N 28.9E 0 3.6L **¶97ix3422**
BER IX 23 12 47 29.3 60.9N 29.0E 0
BER Probable explosion
(535) Southern Norway
BER IX 23 14 04 56.1 59.3N 6.1E 0 1.3D,1.8L ¶97ix3430
BER Probable explosion
(536) Sweden
BER IX 23 23 22 07.7 68.0N 20.4E 0 2.3D,1.7L ¶97ix3497
BER Probable explosion
(548) Poland
ISC IX 24 01 40 19.0±.79 51.69N±.055 16.1E±.12 0 13 1-11
NEIC IX 24 01 40 19.4 51.68N 16.21E 5 **¶97ix3508**
EIDC IX 24 01 40 20.7 51.6N 16.3E 0 3.0L
ISC Possibly mining induced (after WAR)
NEIC ML3.0(VIE).
(536) Sweden
ISC IX 24 08 45 54±3.2 57.8N±.31 11.5E±.14 0 11 3-13
BER IX 24 08 46 00.0 57.9N 11.4E 0 1.8L **¶97ix3551**
BER Probable explosion
(724) Western Russia
ISC IX 24 09 30 51±1.7 59.0N±.10 28.0E±.33 0 8 3-13
BER IX 24 09 30 57.0 59.1N 27.7E 0 **¶97ix3561**
BER Probable explosion
(724) Western Russia
BER IX 24 10 01 27.0 56.3N 23.1E 0 ¶97ix3564
BER Probable explosion

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(724) Western Russia						
BER	**IX 24 14 13 01.8**	**56.5N**	**26.0E**	**0**			**¶97ix3589**
BER	Probable explosion						
	(548) Poland						
ISC	**IX 24 16 14 20**±2.7	**51.2N**±.17	**15.8E**±.16	**0**		**7**	**0-3**
ISC	Possibly mining induced (after WAR)						**¶97ix3601**
	(548) Poland						
ISC	**IX 24 19 17 23**±2.6	**51.5N**±.17	**15.9E**±.15	**0**		**10**	**1-4**
NEIC	IX 24 19 17 26.6	51.35N	16.00E	5			**¶97ix3622**
ISC	Possibly mining induced (after WAR)						
NEIC	M_L2.9(VIE), Poor solution.						
	(536) Sweden						
BER	**IX 24 23 18 33.9**	**67.9N**	**20.7E**	**0**	**1.7L**		**¶97ix3648**
BER	Probable explosion						
	(536) Sweden						
BER	**IX 24 23 19 45.1**	**67.9N**	**20.3E**	**0**	**1.8L**		**¶97ix3650**
BER	Probable explosion						
	(535) Southern Norway						
ISC	**IX 25 10 18 44**±1.1	**60.47N**±.070	**5.5E**±.17	**0**		**6**	**0-1**
BER	IX 25 10 18 45.1	60.5N	5.4E	0	1.3D,1.3L		**¶97ix3722**
BER	Probable explosion						
	(535) Southern Norway						
ISC	**IX 25 12 39 25**±1.3	**59.4N**±.14	**5.6E**±.23	**0**		**4**	**0-2**
BER	IX 25 12 39 25.5	59.2N	5.7E	0	1.4D,0.9L		**¶97ix3741**
ISC	Poorly determined						
BER	Probable explosion						
	(535) Southern Norway						
BER	**IX 25 13 04 08.6**	**58.2N**	**6.1E**	**0**	**1.5D**		**¶97ix3744**
BER	Probable explosion						
	(535) Southern Norway						
BER	**IX 25 13 28 11.0**	**58.3N**	**6.4E**	**0**	**2.2D,1.6L**		**¶97ix3747**
BER	Explosion						
	(543) Germany						
BUG	**IX 25 16 12 19.3**	**51.6N**	**7.7E**	**1**	**1.4L**		**¶97ix3757**
BUG	Mining induced event						
	(535) Southern Norway						
BER	**IX 25 16 13 16.2**	**59.7N**	**10.0E**	**0**	**1.2D**		**¶97ix3759**
BER	Probable explosion						
	(548) Poland						
ISC	**IX 25 19 18 48**±4.7	**51.5N**±.27	**15.9E**±.26	**0**		**7**	**1-3**
ISC	Possibly mining induced (after WAR)						**¶97ix3778**
	(548) Poland						
ISC	**IX 25 19 19 58**±2.7	**51.4N**±.18	**15.9E**±.17	**0**		**9**	**1-4**
ISC	ML3.5 (MOA), possibly mining induced (after WAR)						**¶97ix3779**
	(548) Poland						
ISC	**IX 26 00 13 44**±3.5	**51.5N**±.23	**16.1E**±.19	**0**		**10**	**1-4**
ISC	Possibly mining induced (after WAR)						**¶97ix3809**
	(721) Finland						
ISC	**IX 26 10 45 40**±1.6	**63.14N**±.081	**27.5E**±.39	**0**		**8**	**2-17**
EIDC	IX 26 10 45 41.3	63.1N	27.9E	0	3.2L		**¶97ix3956**
BER	IX 26 10 45 42.4	63.0N	28.0E	0			
BER	Probable explosion						
	(723) Finland-USSR border region						
ISC	**IX 26 10 59 58**±1.4	**64.79N**±.090	**30.0E**±.38	**0**		**8**	**3-9**
EIDC	IX 26 10 59 57.2	64.7N	30.9E	0	3.2L		**¶97ix3962**
BER	IX 26 11 00 00.1	64.7N	30.7E	0			
BER	Probable explosion						
	(722) Norway-USSR border region						
BER	**IX 26 11 05 48.4**	**69.4N**	**30.6E**	**0**			**¶97ix3966**
BER	Probable explosion						
	(724) Western Russia						
ISC	**IX 26 11 53 33**±10	**58.3N**±.62	**30E**±1.0	**0**		**7**	**4-11**
BER	IX 26 11 53 54.8	59.4N	28.3E	0			**¶97ix3980**
EIDC	IX 26 11 53 56.5	59.5N	27.9E	0	3.0L		
BER	Probable explosion						
	(535) Southern Norway						
BER	**IX 26 12 12 40.7**	**59.3N**	**6.0E**	**0**	**1.2D,1.2L**		**¶97ix3984**
BER	Probable explosion						
	(543) Germany						
BUG	**IX 26 12 57 19.9**	**51.6N**	**7.7E**	**1**	**1.8L**		**¶97ix4003**
BUG	Mining induced event						
	(543) Germany						
ISC	**IX 26 12 57 35**±1.1	**51.66N**±.090	**7.7E**±.12	**0**		**7**	**0-2**
BUG	IX 26 12 57 34.2	51.6N	7.7E	1	2.1L		**¶97ix4004**
BUG	Mining induced event						
	(548) Poland						
ISC	**IX 26 15 31 08.1**±.56	**51.65N**±.043	**16.23E**±.097	**0**		**20**	**1-18**
NEIC	IX 26 15 31 08.6	51.65N	16.24E	5			**¶97ix4058**
EIDC	IX 26 15 31 10.3	51.6N	16.4E	0	3.4L		
WAR	IX 26 15 31 11.6	51.5N	16.1E		2.9L		
NEIC	M_L2.9(CLL).						
WAR	Mining induced						
	(548) Poland						
ISC	**IX 27 04 40 10.0**±.73	**51.58N**±.056	**16.13E**±.093	**0**		**13**	**1-11**
NEIC	IX 27 04 40 10.3	51.58N	16.23E	5			**¶97ix4247**
EIDC	IX 27 04 40 12.2	51.5N	16.1E	0	3.0L		
ISC	Possibly mining induced (after WAR)						
NEIC	$MG_{2.6}$(WAR).						
	(543) Germany						
BUG	**IX 27 05 48 01.3**	**51.7N**	**7.0E**	**1**	**1.1L**		**¶97ix4263**
BUG	Mining induced event						
	(536) Sweden						
ISC	**IX 27 23 23 43.9**±.78	**67.77N**±.070	**20.5E**±.20	**0**		**8**	**2-8**
BER	IX 27 23 23 47.9	67.9N	20.8E	0	2.5D		**¶97ix4478**
BER	Probable explosion						
	(543) Germany						
ISC	**IX 28 02 58 11.1**±.46	**51.40N**±.039	**6.37E**±.047	**0**		**66**	**1-7**
BUG	IX 28 02 58 11.2	51.5N	6.5E	1	2.5L		**¶97ix4520**
NEIC	IX 28 02 58 12.6	51.37N	6.37E	10			
UCC	IX 28 02 58 13.7	51.44N	6.62E	10	3.1L		
SZGRF	IX 28 02 58 14.4	51.4N	6.6E	1	2.8L		
STR	IX 28 02 58 14.9	51.35N	6.31E	5	3.4L		
LDG	IX 28 02 58 15.7	51.3N	6.4E		3.3L		
BUG	Mining induced event						
NEIC	ML 2.9 (DBN).						
	(724) Western Russia						
BER	**IX 28 08 06 36.3**	**67.7N**	**33.7E**	**0**			**¶97ix4588**
BER	Probable explosion						
	(543) Germany						
BUG	**IX 28 17 36 59.9**	**51.6N**	**7.7E**	**1**	**1.7L**		**¶97ix4716**
BUG	Mining induced event						
	(543) Germany						
BUG	**IX 28 23 31 31.8**	**51.6N**	**7.7E**	**1**	**1.2L**		**¶97ix4791**
BUG	Mining induced event						
	(548) Poland						
ISC	**IX 29 03 42 11**±2.0	**51.6N**±.15	**16.1E**±.11	**0**		**10**	**1-3**
NEIC	IX 29 03 42 11.5	51.61N	16.18E	5			**¶97ix4858**
ISC	Possibly mining induced (after WAR)						
NEIC	$MG_{2.6}$(WAR), Poor solution.						
	(724) Western Russia						
BER	**IX 29 09 29 23.4**	**55.2N**	**30.8E**	**0**			**¶97ix4919**
BER	Probable explosion						
	(543) Germany						
ISC	**IX 29 17 27 17**±2.6	**51.8N**±.25	**7.6E**±.23	**0**		**6**	**0-2**
BUG	IX 29 17 27 18.0	51.7N	7.7E	1	1.9L		**¶97ix4990**
SZGRF	IX 29 17 27 19.7	51.6N	7.8E	1	1.9L		
BUG	Mining induced event						
	(535) Southern Norway						
ISC	**IX 29 17 27 52**±1.1	**60.69N**±.059	**5.3E**±.25	**0**		**5**	**0-1**
BER	IX 29 17 27 53.6	60.7N	5.2E	0	1.3D		**¶97ix4991**
BER	Probable explosion						
	(536) Sweden						
BER	**IX 29 23 29 06.2**	**67.9N**	**20.8E**	**0**	**1.6L**		**¶97ix5055**
BER	Probable explosion						
	(536) Sweden						
BER	**IX 29 23 35 42.6**	**67.9N**	**20.7E**	**0**	**1.6L**		**¶97ix5056**
BER	Probable explosion						
	(548) Poland						
ISC	**IX 30 02 26 37**±7.6	**50.6N**±.26	**18.9E**±.65	**0**		**7**	**1-4**
ISC	Possibly mining induced (after WAR)						**¶97ix5102**
	(543) Germany						
ISC	**IX 30 07 58 53.4**±.76	**49.17N**±.048	**6.88E**±.097	**0**		**22**	**1-5**
SZGRF	IX 30 07 58 54.0	49.2N	6.8E	1	2.9L		**¶97ix5166**
STR	IX 30 07 58 54.1	49.14N	6.87E	1	3.1L		
LEDBW	IX 30 07 58 54.9	49.18N	6.88E	1	2.8L		
NEIC	IX 30 07 58 55.0	49.22N	6.93E	10			
UCC	IX 30 07 59 09.8	49.67N	6.15E	10	2.9L		
LEDBW	Mining induced event						
NEIC	M_L2.9(DBN).						
NEIC	Mining induced event in the Lorraine region, France.						
	(383) Northwestern Balkan region						
LJU	**IX 30 10 25 00.0**	**46.27N**	**16.0E**	**0**			**¶97ix5201**
LJU	Quarry blast						
	(441) Ontario						
ISC	**IX 30 13 12 17**±1.3	**48.4N**±.13	**79.5W**±.12	**0**		**17**	**2-11**
OTT	IX 30 13 12 21.0	48.1N	79.6W	1	3.5N		**¶97ix5234**
OTT	Probable rockburst Kirkland Lake. Felt.						
	(543) Germany						
BUG	**IX 30 14 56 52.0**	**51.7N**	**7.8E**	**1**	**1.7L**		**¶97ix5254**
BUG	Mining induced event						
	(724) Western Russia						
BER	**IX 30 15 24 21.4**	**67.6N**	**33.8E**	**0**			**¶97ix5261**
BER	Probable explosion						
	(543) Germany						
ISC	**IX 30 15 42 28**±1.3	**51.65N**±.080	**6.9E**±.19	**0**		**4**	**0-1**
BUG	IX 30 15 42 27.7	51.7N	7.0E	1	1.5L		**¶97ix5269**
ISC	Poorly determined						
BUG	Mining induced event						
	(543) Germany						
BUG	**IX 30 16 38 59.8**	**51.6N**	**7.7E**	**1**	**1.3L**		**¶97ix5274**
BUG	Mining induced event						
	(536) Sweden						
BER	**IX 30 20 17 48.3**	**67.8N**	**20.2E**	**0**	**2.0D,1.5L**		**¶97ix5304**
BER	Probable explosion						
	(536) Sweden						
BER	**IX 30 23 18 52.6**	**67.8N**	**20.2E**	**0**	**2.3D,1.6L**		**¶97ix5332**
BER	Probable explosion						
	(543) Germany						
BUG	**IX 30 23 49 04.1**	**51.7N**	**7.7E**	**1**	**1.8L**		**¶97ix5335**
BUG	Mining induced event						
	(543) Germany						
ISC	**X 01 02 07 35**±1.3	**51.64N**±.080	**6.9E**±.19	**0**		**4**	**0-1**
BUG	X 01 02 07 34.9	51.7N	7.0E	1	1.1L		**¶97x0009**
ISC	Poorly determined						
BUG	Mining induced event						
	(543) Germany						
BUG	**X 01 05 08 23.7**	**51.7N**	**7.7E**	**1**	**1.4L**		**¶97x0032**
BUG	Mining induced event						
	(724) Western Russia						
BER	**X 01 10 39 57.1**	**59.4N**	**25.6E**	**0**			**¶97x0072**
BER	Probable explosion						
	(723) Finland-USSR border region						
ISC	**X 01 11 39 25**±2.4	**60.6N**±.16	**28.4E**±.25	**0**		**8**	**1-9**
EIDC	X 01 11 39 27.8	60.6N	28.6E	0	3.3L		**¶97x0075**
BER	X 01 11 39 30.5	60.6N	28.5E	0			
BER	Probable explosion						
	(535) Southern Norway						
BER	**X 01 13 15 20.5**	**58.4N**	**7.5E**	**0**	**2.3D,1.8L**		**¶97x0091**
BER	Probable explosion						
	(721) Finland						
BER	**X 01 14 06 01.2**	**60.6N**	**22.2E**	**0**			**¶97x0099**
BER	Probable explosion						
	(543) Germany						
BUG	**X 01 15 11 28.1**	**51.7N**	**7.7E**	**1**	**1.6L**		**¶97x0106**
BUG	Mining induced event						
	(543) Germany						
BUG	**X 01 22 24 20.2**	**51.7N**	**7.7E**	**1**	**1.5L**		**¶97x0165**
BUG	Mining induced event						
	(536) Sweden						
ISC	**X 01 22 27 45**±1.6	**67.8N**±.10	**20.7E**±.43	**0**		**6**	**2-7**
BER	X 01 22 27 46.8	67.9N	20.1E	0	2.5D,1.7L		**¶97x0166**
BER	Probable explosion						
	(536) Sweden						
ISC	**X 01 23 35 50**±1.0	**67.65N**±.079	**20.4E**±.32	**0**		**7**	**2-8**
BER	X 01 23 35 53.0	67.8N	20.2E	0	2.6D,1.9L		**¶97x0174**
BER	Probable explosion						
	(536) Sweden						
BER	**X 02 04 26 06.7**	**67.9N**	**20.0E**	**0**	**2.3D,1.4L**		**¶97x0204**
BER	Probable explosion						

(548) Poland

ISC	**X**	**02 11 11 19**±1.7	**51.6N**±.13	**16.18E**±.098	**0**			**14**	**1-4**
WAR	X	02 11 11 22.5	51.5N	16.1E		2.8L			¶97x0266
WAR	Mining induced								

(723) Finland-USSR border region

ISC	**X**	**02 11 31 11**±3.4	**60.7N**±.25	**28.8E**±.36	**0**			**5**	**2-9**
BER	X	02 11 31 17.2	60.8N	28.8E	0				¶97x0272
BER	Probable explosion								

(543) Germany

BUG	**X**	**02 22 55 21.9**	**51.6N**	**6.9E**	**1**	**1.1L**			¶97x0352
BUG	Mining induced event								

(536) Sweden

ISC	**X**	**02 23 20 21.6**±.70	**67.78N**±.068	**20.6E**±.20	**0**			**9**	**2-11**
BER	X	02 23 20 26.0	67.9N	20.7E	0	2.3D,1.8L			¶97x0355
BER	Probable explosion								

(548) Poland

ISC	**X**	**03 04 17 36.0**±.52	**51.70N**±.038	**16.17E**±.077	**0**			**34**	**1-18**
NEIC	X	03 04 17 36.6	51.70N	16.18E	5				¶97x0383
EIDC	X	03 04 17 38.0	51.6N	16.2E	0	3.5L			
SZGRF	X	03 04 17 39.0	51.5N	16.2E	1	3.8L			
WAR	X	03 04 17 40.6	51.5N	16.0E		3.3L			
NEIC	M_{L}3.6(VIE).								
WAR	Mining induced								

(724) Western Russia

ISC	**X**	**03 08 17 22**±5.2	**59.5N**±.23	**40.0E**±.75	**0**			**8**	**7-17**
EIDC	X	03 08 17 55.3	61.1N	36.1E	0	3.4L			¶97x0423
BER	X	03 08 18 06.3	61.4N	34.6E	0				
BER	Probable explosion								

(723) Finland-USSR border region

ISC	**X**	**03 09 00 01**±1.7	**64.8N**±.12	**30.1E**±.48	**0**			**6**	**3-14**
BER	X	03 09 00 02.5	64.7N	30.9E	0				¶97x0433
BER	Probable explosion								

(722) Norway-USSR border region

ISC	**X**	**03 11 13 39**±1.3	**69.42N**±.099	**29.9E**±.42	**0**			**6**	**2-12**
BER	X	03 11 13 42.6	69.4N	30.7E	0				¶97x0452
BER	Probable explosion								

(548) Poland

ISC	**X**	**03 15 05 08**±1.9	**51.2N**±.14	**15.8E**±.12	**0**			**8**	**1-3**
WAR	X	03 15 05 05.6	51.5N	16.1E		2.6L			¶97x0485
WAR	Mining induced								

(536) Sweden

BER	**X**	**03 23 30 22.7**	**68.0N**	**20.5E**	**0**	**2.8D**			¶97x0547
BER	Probable explosion								

(536) Sweden

BER	**X**	**04 02 20 13.0**	**67.6N**	**20.5E**	**0**	**2.3D,1.4L**			¶97x0561
BER	Probable explosion								

(548) Poland

ISC	**X**	**04 03 24 12.2**±.73	**51.63N**±.051	**16.2E**±.13	**0**			**14**	**1-18**
NEIC	X	04 03 24 12.2	51.65N	16.29E	5				¶97x0569
EIDC	X	04 03 24 14.5	51.5N	16.0E	0	3.0L			
WAR	X	04 03 24 15.8	51.51N	16.07E		2.4L			
WAR	Mining induced								

(548) Poland

ISC	**X**	**04 03 40 33.4**±.54	**51.64N**±.045	**16.19E**±.072	**0**			**22**	**1-18**
NEIC	X	04 03 40 34.1	51.64N	16.20E	5				¶97x0574
EIDC	X	04 03 40 35.1	51.6N	16.2E	0	3.2L			
WAR	X	04 03 40 37.0	51.48N	16.09E		2.8L			
NEIC	M_{L}3.5(GRF), M_{L}3.3(VIE).								
WAR	Mining induced								

(536) Sweden

BER	**X**	**04 04 21 40.1**	**67.9N**	**20.5E**	**0**	**2.3D,1.5L**			¶97x0581
BER	Probable explosion								

(548) Poland

ISC	**X**	**04 08 45 15.1**±.63	**51.62N**±.047	**16.24E**±.085	**0**			**21**	**1-18**
NEIC	X	04 08 45 15.7	51.61N	16.33E	5				¶97x0613
EIDC	X	04 08 45 17.0	51.5N	16.4E	0	3.3L			
WAR	X	04 08 45 19.4	51.5N	16.1E		2.9L			
NEIC	M_{L}3.7(VIE), M_{L}3.5(GRF).								
WAR	Mining induced								

(535) Southern Norway

BER	**X**	**04 13 40 39.4**	**60.6N**	**4.8E**	**0**	**1.3D,1.2L**			¶97x0654
BER	Probable explosion								

(724) Western Russia

BER	**X**	**04 13 43 41.3**	**56.6N**	**26.1E**	**0**				¶97x0655
BER	Probable explosion								

(535) Southern Norway

BER	**X**	**04 16 53 36.7**	**60.8N**	**5.2E**	**0**	**1.3D,1.0L**			¶97x0692
BER	Probable explosion								

(536) Sweden

ISC	**X**	**04 23 19 19.9**±.96	**67.72N**±.090	**20.7E**±.26	**0**			**6**	**2-7**
BER	X	04 23 19 24.0	67.9N	20.6E	0	2.6D,1.3L			¶97x0759
BER	Probable explosion								

(543) Germany

ISC	**X**	**05 10 57 39.7**±.46	**48.18N**±.040	**9.02E**±.045	**0**			**28**	**0-4**
NEIC	X	05 10 57 40.7	48.16N	9.06E	10				¶97x0854
LEDBW	X	05 10 57 40.8	48.15N	9.03E	4	2.0L			
SZGRF	X	05 10 57 41.2	48.1N	9.0E	5	2.0L			
LDG	X	05 10 57 41.6	48.3N	8.9E		2.2L			
NEIC	ML 2.0 (FBB).								
LEDBW	Mining induced event								

(536) Sweden

ISC	**X**	**05 19 50 04.6**±.82	**67.69N**±.081	**20.5E**±.25	**0**			**7**	**2-8**
BER	X	05 19 50 07.6	67.9N	20.3E	0	2.5D,1.6L			¶97x0922
BER	Probable explosion								

(536) Sweden

BER	**X**	**05 21 53 19.6**	**66.9N**	**21.4E**	**0**	**2.5D,1.7L**			¶97x0941
BER	Probable explosion								

(536) Sweden

BER	**X**	**05 23 23 04.2**	**67.9N**	**20.6E**	**0**	**2.2D,1.4L**			¶97x0948
BER	Probable explosion								

(536) Sweden

BER	**X**	**05 23 36 33.5**	**67.9N**	**20.6E**	**0**	**2.9D**			¶97x0950
BER	Probable explosion								

(536) Sweden

BER	**X**	**05 23 39 53.2**	**67.7N**	**20.3E**	**0**	**2.3D,1.6L**			¶97x0951
BER	Probable explosion								

(536) Sweden

ISC	**X**	**06 05 10 12**±1.1	**67.6N**±.11	**20.4E**±.33	**0**			**6**	**2-8**
BER	X	06 05 10 15.9	67.8N	20.1E	0	2.4D,1.7L			¶97x0995
BER	Probable explosion								

(536) Sweden

BER	**X**	**06 12 28 04.8**	**67.7N**	**20.3E**	**0**	**2.6D,1.8L**			¶97x1046
BER	Probable explosion								

(383) Northwestern Balkan region

LJU	**X**	**06 16 01 14.0**	**46.6N**	**15.3E**	**0**				¶97x1073
LJU	Quarry blast								

(535) Southern Norway

ISC	**X**	**06 16 03 53**±1.2	**60.73N**±.066	**5.5E**±.24	**0**			**5**	**0-1**
BER	X	06 16 03 54.1	60.7N	5.6E	0	1.8D			¶97x1074
BER	Probable explosion								

(548) Poland

ISC	**X**	**06 19 18 19.2**±.47	**51.65N**±.039	**16.21E**±.069	**0**			**26**	**1-18**
NEIC	X	06 19 18 19.7	51.64N	16.22E	5				¶97x1105
EIDC	X	06 19 18 20.9	51.6N	16.3E	0	3.5L			
WAR	X	06 19 18 24.0	51.47N	16.08E		3.0L			
NEIC	M_{L}3.6(GRF), M_{L}3.5(VIE).								
WAR	Mining induced								

(536) Sweden

BER	**X**	**06 23 14 32.1**	**68.0N**	**20.5E**	**0**	**2.5D,1.6L**			¶97x1130
BER	Probable explosion								

(543) Germany

BUG	**X**	**07 03 39 05.2**	**51.6N**	**6.9E**	**1**	**1.1L**			¶97x1170
BUG	Mining induced event								

(543) Germany

BUG	**X**	**07 06 56 39.8**	**51.7N**	**7.7E**	**1**	**1.8L**			¶97x1197
BUG	Mining induced event								

(536) Sweden

ISC	**X**	**07 07 20 44**±1.5	**67.8N**±.13	**20.4E**±.47	**0**			**5**	**2-8**
BER	X	07 07 20 46.2	68.0N	20.1E	0	2.3D			¶97x1199
BER	Probable explosion								

(721) Finland

ISC	**X**	**07 10 49 19**±1.1	**63.24N**±.080	**27.4E**±.29	**0**			**8**	**2-8**
EIDC	X	07 10 49 19.9	63.1N	27.9E	0	2.9L			¶97x1233
BER	X	07 10 49 21.3	63.1N	27.9E	0				
BER	Probable explosion								

(535) Southern Norway

BER	**X**	**07 12 51 33.4**	**60.7N**	**5.6E**	**0**	**1.6D,1.4L**			¶97x1252
BER	Probable explosion								

(535) Southern Norway

ISC	**X**	**07 14 53 53**±1.6	**60.38N**±.070	**4.8E**±.23	**0**			**6**	**0-1**
BER	X	07 14 53 55.0	60.4N	4.9E	0	1.3D,1.8L			¶97x1267
BER	Probable explosion								

(536) Sweden

ISC	**X**	**07 14 55 20**±3.5	**67.8N**±.13	**21.2E**±.99	**0**			**5**	**1-7**
BER	X	07 14 55 22.0	67.9N	20.6E	0	2.2D			¶97x1268
ISC	Poorly determined								
BER	Probable explosion								

(536) Sweden

ISC	**X**	**07 16 37 20.3**±.81	**67.8N**±.10	**20.3E**±.22	**0**			**8**	**2-10**
BER	X	07 16 37 24.0	68.0N	20.2E	0	2.5D			¶97x1278
BER	Probable explosion								

(536) Sweden

BER	**X**	**07 22 14 52.7**	**67.9N**	**20.6E**	**0**	**2.4D,1.5L**			¶97x1309
BER	Probable explosion								

(536) Sweden

BER	**X**	**07 23 31 22.5**	**67.9N**	**20.5E**	**0**	**2.5D**			¶97x1321
BER	Probable explosion								

(536) Sweden

BER	**X**	**08 00 45 18.5**	**67.8N**	**20.1E**	**0**	**2.2D,1.4L**			¶97x1330
BER	Probable explosion								

(536) Sweden

ISC	**X**	**08 06 37 54.5**±.90	**67.75N**±.081	**20.6E**±.31	**0**			**8**	**2-11**
BER	X	08 06 37 57.9	67.9N	20.2E	0	2.3D,1.7L			¶97x1359
BER	Probable explosion								

(383) Northwestern Balkan region

ISC	**X**	**08 11 01 37**±2.4	**46.24N**±.068	**15.8E**±.24	**0**			**7**	**0-1**
LJU	X	08 11 01 34.8	46.2N	16.1E	0				¶97x1400
LJU	Quarry blast								

(724) Western Russia

ISC	**X**	**08 11 43 35**±2.3	**67.6N**±.10	**34.6E**±.48	**0**			**7**	**1-12**
BER	X	08 11 43 41.4	67.6N	33.9E	0	2.8D,2.3L			¶97x1406
BER	Probable explosion								

(383) Northwestern Balkan region

LJU	**X**	**08 11 51 16.0**	**46.23N**	**16.1E**	**0**				¶97x1409
LJU	Quarry blast								

(439) Manitoba Province

ISC	**X**	**08 12 05 41.2**±.78	**50.84N**±.082	**101.96W**±.095	**0**			**14**	**4-14**
EIDC	X	08 12 05 43.5	50.9N	101.9W	0	3.6L			¶97x1412
PGC	X	08 12 05 45.6	50.6N	101.8W	1	3.1b			
PGC	Near Esterhazy, Saskatchewan. Induced earthquake at the IMC potash mine.Felt underground and on the surface.								

(724) Western Russia

ISC	**X**	**08 13 13 46**±4.7	**60.9N**±.30	**29.1E**±.54	**0**			**4**	**2-9**
BER	X	08 13 13 51.0	60.8N	29.1E	0				¶97x1423
ISC	Poorly determined								
BER	Probable explosion								

(535) Southern Norway

ISC	**X**	**08 13 20 04**±14	**58.3N**±.89	**6.4E**±.61	**0**			**6**	**1-3**
BER	X	08 13 20 05.6	58.3N	6.3E	0	2.2D,1.6L			¶97x1424
BER	Probable explosion								

(548) Poland

ISC	**X**	**08 20 33 58**±3.6	**51.5N**±.25	**16.1E**±.24	**0**			**9**	**1-3**
NEIC	X	08 20 34 03.6	51.17N	15.88E	5				¶97x1469
ISC	Possibly mining induced (after WAR)								
NEIC	Less reliable solution.								

(536) Sweden

ISC	**X**	**08 21 00 20.3**±.78	**67.87N**±.076	**20.5E**±.25	**0**			**8**	**2-8**
BER	X	08 21 00 24.5	67.9N	20.7E	0	2.6D,1.8L			¶97x1474
BER	Probable explosion								

(543) Germany

ISC	**X**	**09 02 20 24**±1.3	**51.64N**±.080	**6.9E**±.19	**0**			**4**	**0-1**
BUG	X	09 02 20 23.8	51.7N	7.0E	1	1.5L			¶97x1506
ISC	Poorly determined								
BUG	Mining induced event								

(543) Germany

ISC	**X**	**09 02 41 56.5**±.87	**49.26N**±.072	**7.07E**±.079	**0**			**20**	**1-5**
SZGRF	X	09 02 41 56.2	49.2N	6.7E	1	2.4L			¶97x1511
NEIC	X	09 02 41 56.7	49.07N	6.90E	10				
NEIC	M_{L}2.6(DBN), M_{L}2.5(UCC), Less reliable solution.								
NEIC	Mining induced event in the Lorraine region, France.								

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
		(548) Poland						
ISC	**X**	**09 05 05 54.1**±.91	**50.1N**±.12	**19.04E**±.076	**0**		**9**	**1-4**
WAR	X	09 05 05 55.0	50.1N	19.1E		3.0L		**¶97x1529**
WAR		Mining induced						
		(548) Poland						
ISC	**X**	**09 05 07 09**±1.3	**50.3N**±.14	**18.77E**±.091	**0**		**8**	**1-4**
WAR	X	09 05 07 10.0	50.4N	18.9E		3.0L		**¶97x1530**
WAR		Mining induced						
		(724) Western Russia						
BER	**X**	**09 08 32 01.3**	**55.6N**	**31.9E**	**0**			**¶97x1558**
BER		Probable explosion						
		(543) Germany						
BUG	**X**	**09 09 10 30.5**	**51.6N**	**7.7E**	**1**	**1.7L**		**¶97x1562**
BUG		Mining induced event						
		(535) Southern Norway						
BER	**X**	**09 11 07 52.8**	**60.4N**	**5.2E**	**0**	**0.7D,0.9L**		**¶97x1576**
BER		Probable explosion						
		(536) Sweden						
ISC	**X**	**09 22 12 14**±1.1	**67.2N**±.10	**21.0E**±.30	**0**		**5**	**2-6**
BER	X	09 22 12 18.2	67.2N	21.2E	0	2.0D,1.4L		**¶97x1650**
BER		Probable explosion						
		(543) Germany						
BUG	**X**	**09 23 00 25.3**	**51.7N**	**7.0E**	**1**	**1.2L**		**¶97x1655**
BUG		Mining induced event						
		(536) Sweden						
BER	**X**	**09 23 29 47.6**	**67.7N**	**20.2E**	**0**	**2.5D,1.8L**		**¶97x1657**
BER		Probable explosion						
		(379) Near south coast of France						
STR	**X**	**10 02 23 52.9**	**43.43N**	**5.43E**	**1**	**3.0L**		**¶97x1678**
		(724) Western Russia						
BER	**X**	**10 09 49 38.5**	**61.4N**	**35.1E**	**0**			**¶97x1731**
EIDC	X	10 09 49 33.1	61.2N	35.5E	0	3.3L		
BER		Probable explosion						
		(383) Northwestern Balkan region						
LJU	**X**	**10 10 53 37.8**	**46.0N**	**14.1E**	**0**			**¶97x1741**
LJU		Quarry blast						
		(724) Western Russia						
BER	**X**	**10 11 35 44.5**	**59.2N**	**28.0E**	**0**			**¶97x1745**
BER		Probable explosion						
		(543) Germany						
ISC	**X**	**11 00 35 32.7**±.55	**49.37N**±.036	**6.96E**±.069	**0**		**25**	**0-4**
LEDBW	X	11 00 35 34.4	49.38N	6.93E	1	2.4L		**¶97x1819**
NEIC	X	11 00 35 34.5	49.42N	6.90E	5			
SZGRF	X	11 00 35 34.5	49.4N	6.8E	1	2.7L		
LEDBW		Mining induced event						
NEIC		$M_{L2.5}$(DBN).						
NEIC		ML 2.5 (UCC), 2.4 (FBB). Mining induced event in the Lorraine region, France.						
		(536) Sweden						
ISC	**X**	**11 22 36 24.1**±.62	**67.76N**±.060	**20.5E**±.20	**0**		**12**	**2-8**
EIDC	X	11 22 36 26.4	67.8N	20.6E	0	2.7L		**¶97x1950**
BER	X	11 22 36 28.5	67.9N	20.6E	0	2.6D,1.9L		
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**11 23 28 52.5**	**68.0N**	**20.5E**	**0**	**2.5D**		**¶97x1955**
BER		Probable explosion						
		(548) Poland						
ISC	**X**	**11 23 38 51.1**±.90	**51.65N**±.065	**16.2E**±.18	**0**		**10**	**1-11**
NEIC	X	11 23 38 51.4	51.64N	16.36E	5			**¶97x1957**
EIDC	X	11 23 38 53.2	51.6N	16.1E	0	3.0L		
ISC		Probably mining induced (after WAR)						
NEIC		Less reliable solution.						
		(724) Western Russia						
ISC	**X**	**12 03 37 21**±2.0	**67.62N**±.076	**34.5E**±.43	**0**		**12**	**1-12**
BER	X	12 03 37 25.8	67.7N	34.3E	0	3.4D,3.0L		**¶97x1981**
EIDC	X	12 03 37 30.2	67.5N	32.9E	0	3.4L		
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**12 23 30 11.1**	**67.9N**	**20.5E**	**0**	**2.7D**		**¶97x2123**
BER		Probable explosion						
		(724) Western Russia						
BER	**X**	**13 11 48 21.1**	**57.2N**	**25.6E**	**0**			**¶97x2211**
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**13 23 16 29.6**	**67.9N**	**20.6E**	**0**	**2.5D,1.6L**		**¶97x2302**
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**13 23 18 52.1**	**68.0N**	**20.6E**	**0**	**1.8L**		**¶97x2303**
BER		Probable explosion						
		(721) Finland						
ISC	**X**	**14 12 17 48.7**±.96	**61.2N**±.13	**20.4E**±.15	**0**		**8**	**3-9**
EIDC	X	14 12 17 49.5	60.8N	20.6E	0	3.0L		**¶97x2401**
BER	X	14 12 17 50.5	60.8N	20.7E	0			
BER		Probable explosion						
		(721) Finland						
ISC	**X**	**14 13 09 14.0**±.96	**61.2N**±.13	**20.5E**±.15	**0**		**8**	**3-9**
EIDC	X	14 13 09 14.9	61.0N	20.6E	0	2.9L		**¶97x2410**
BER	X	14 13 09 16.1	60.9N	20.7E	0			
BER		Probable explosion						
		(724) Western Russia						
BER	**X**	**14 13 45 39.0**	**57.2N**	**26.9E**	**0**			**¶97x2415**
BER		Probable explosion						
		(724) Western Russia						
ISC	**X**	**14 14 25 35**±3.8	**60.9N**±.24	**29.1E**±.44	**0**		**7**	**2-9**
EIDC	X	14 14 25 38.3	60.9N	29.1E	0	3.1L		**¶97x2423**
BER	X	14 14 25 40.2	61.0N	29.0E	0			
BER		Probable explosion						
		(543) Germany						
ISC	**X**	**14 21 56 35**±1.6	**51.5N**±.10	**7.7E**±.16	**0**		**9**	**0-10**
BUG	X	14 21 56 33.3	51.7N	7.7E	1	2.0L		**¶97x2506**
SZGRF	X	14 21 56 35.2	51.6N	7.8E	1	2.0L		
BUG		Mining induced event						
		(536) Sweden						
BER	**X**	**14 23 19 41.4**	**67.9N**	**20.8E**	**0**	**2.4D,1.7L**		**¶97x2510**
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**14 23 25 55.6**	**67.9N**	**20.7E**	**0**	**2.4D,1.7L**		**¶97x2513**
BER		Probable explosion						
		(723) Finland-USSR border region						
ISC	**X**	**15 11 31 43**±2.5	**60.8N**±.18	**28.7E**±.26	**0**		**8**	**1-9**
EIDC	X	15 11 31 43.3	60.8N	28.9E	0	3.7L		**¶97x2618**
BER	X	15 11 31 48.0	60.7N	28.7E	0			
BER		Probable explosion						
		(721) Finland						
ISC	**X**	**15 12 17 40**±1.7	**60.3N**±.20	**22.0E**±.19	**0**		**8**	**2-9**
EIDC	X	15 12 17 36.6	59.6N	22.4E	0	3.2L		**¶97x2630**
BER	X	15 12 17 40.0	59.8N	22.5E	0			
BER		Probable explosion						
		(535) Southern Norway						
ISC	**X**	**15 13 14 09**±8.5	**58.6N**±.51	**6.2E**±.38	**0**		**6**	**1-3**
BER	X	15 13 14 07.4	58.3N	6.5E	0	2.1D,1.3L		**¶97x2643**
BER		Explosion						
		(721) Finland						
ISC	**X**	**15 13 40 56**±1.7	**60.3N**±.20	**22.1E**±.19	**0**		**8**	**2-9**
EIDC	X	15 13 40 53.4	59.8N	22.6E	0	2.9L		**¶97x2647**
BER	X	15 13 40 55.9	59.9N	22.6E	0			
BER		Probable explosion						
		(721) Finland						
ISC	**X**	**15 13 58 51**±1.8	**60.3N**±.21	**22.1E**±.20	**0**		**7**	**2-9**
BER	X	15 13 58 49.5	59.7N	22.7E	0			**¶97x2649**
EIDC	X	15 13 58 52.3	60.2N	22.3E	0	3.1L		
BER		Probable explosion						
		(547) Czech and Slovak Republics						
ISC	**X**	**15 16 22 37.8**±.84	**50.0N**±.10	**18.39E**±.074	**0**		**8**	**0-3**
WAR	X	15 16 22 38.6	50.06N	18.48E		2.8L		**¶97x2674**
WAR		Mining induced						
		(548) Poland						
ISC	**X**	**15 19 20 46.1**±.58	**51.58N**±.046	**16.24E**±.078	**0**		**21**	**1-19**
NEIC	X	15 19 20 47.0	51.59N	16.23E	5			**¶97x2699**
EIDC	X	15 19 20 48.1	51.5N	16.1E	0	3.2L		
WAR	X	15 19 20 50.0	51.47N	16.13E		2.6L		
NEIC		$M_{L3.2}$(GRF), $M_{L3.2}$(VIE).						
WAR		Mining induced						
		(536) Sweden						
BER	**X**	**15 23 35 51.5**	**67.8N**	**20.8E**	**0**	**2.4D,1.7L**		**¶97x2744**
BER		Probable explosion						
		(536) Sweden						
ISC	**X**	**15 23 40 49.4**±.66	**67.74N**±.065	**20.5E**±.19	**0**		**11**	**2-11**
BER	X	15 23 40 52.9	67.9N	20.3E	0	2.6D,2.0L		**¶97x2745**
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**15 23 43 57.0**	**67.9N**	**20.7E**	**0**	**2.2D**		**¶97x2746**
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**15 23 49 06.0**	**67.8N**	**20.9E**	**0**	**2.7D,1.9L**		**¶97x2748**
BER		Probable explosion						
		(724) Western Russia						
ISC	**X**	**16 11 01 06**±8.1	**58.8N**±.57	**29.7E**±.79	**0**		**6**	**3-11**
BER	X	16 11 01 19.5	59.4N	28.8E	0			**¶97x2826**
BER		Probable explosion						
		(646) Northern Norway						
ISC	**X**	**16 11 04 26.5**±.89	**66.44N**±.078	**15.0E**±.26	**0**		**7**	**2-7**
BER	X	16 11 04 30.0	66.5N	14.7E	0	2.3D		**¶97x2828**
BER		Explosion						
		(536) Sweden						
BER	**X**	**16 11 35 51.9**	**67.7N**	**20.3E**	**0**	**2.4D,1.8L**		**¶97x2831**
BER		Probable explosion						
		(535) Southern Norway						
ISC	**X**	**16 13 04 47**±1.4	**60.75N**±.083	**5.6E**±.26	**0**		**4**	**0-1**
BER	X	16 13 04 48.3	60.7N	5.6E	0	1.7D		**¶97x2840**
ISC		Poorly determined						
BER		Probable explosion						
		(536) Sweden						
ISC	**X**	**16 15 29 18.4**±.59	**66.97N**±.056	**21.0E**±.17	**0**		**12**	**2-8**
EIDC	X	16 15 29 20.4	67.1N	21.5E	0	2.7L		**¶97x2853**
BER	X	16 15 29 22.6	67.0N	20.9E	0	2.9D,1.8L		
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**16 23 18 32.2**	**67.5N**	**22.1E**	**0**	**2.3D**		**¶97x2896**
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**16 23 29 28.1**	**67.8N**	**20.8E**	**0**	**2.5D,1.6L**		**¶97x2899**
BER		Probable explosion						
		(724) Western Russia						
ISC	**X**	**17 08 11 27**±7.0	**58.4N**±.47	**29.0E**±.66	**0**		**8**	**3-11**
BER	X	17 08 11 42.6	59.2N	27.9E	0			**¶97x2946**
EIDC	X	17 08 11 44.6	59.3N	27.6E	0	2.7L		
BER		Probable explosion						
		(724) Western Russia						
BER	**X**	**17 13 02 03.4**	**67.7N**	**33.8E**	**0**	**2.9D**		**¶97x2990**
BER		Probable explosion						
		(548) Poland						
ISC	**X**	**17 19 00 20.3**±.59	**51.72N**±.046	**16.10E**±.093	**0**		**19**	**1-11**
NEIC	X	17 19 00 20.8	51.74N	16.11E	5			**¶97x3044**
EIDC	X	17 19 00 22.2	51.6N	16.0E	0	3.1L		
WAR	X	17 19 00 24.4	51.5N	16.0E		3.0L		
NEIC		$M_{L3.6}$(VIE), $M_{L3.1}$(CLL).						
WAR		Mining induced						
		(548) Poland						
ISC	**X**	**17 19 11 59.4**±.82	**51.57N**±.065	**16.26E**±.087	**0**		**20**	**1-11**
NEIC	X	17 19 11 59.3	51.71N	16.12E	5			**¶97x3046**
EIDC	X	17 19 12 00.7	51.7N	15.7E	0	3.2L		
WAR	X	17 19 12 02.0	51.47N	16.13E		3.0L		
NEIC		$M_{L3.8}$(VIE), $M_{L3.5}$(GRF).						
WAR		Mining induced						
		(536) Sweden						
BER	**X**	**17 23 18 16.4**	**67.6N**	**20.5E**	**0**	**2.2D,1.6L**		**¶97x3070**
BER		Probable explosion						
		(536) Sweden						
BER	**X**	**17 23 29 07.0**	**67.3N**	**22.0E**	**0**	**2.4D,1.8L**		**¶97x3072**
BER		Probable explosion						
		(548) Poland						
ISC	**X**	**18 07 10 48.5**±.91	**50.0N**±.10	**18.44E**±.079	**0**		**7**	**0-3**
WAR	X	18 07 10 49.0	50.06N	18.47E		2.7L		**¶97x3116**
WAR		Mining induced						
		(548) Poland						
ISC	**X**	**18 08 07 30.9**±.54	**50.06N**±.044	**18.57E**±.068	**0**		**33**	**0-20**
NEIC	X	18 08 07 31.0	49.93N	18.79E	10			**¶97x3122**
EIDC	X	18 08 07 31.7	49.8N	18.7E	0	4.0L,3.4b		
SZGRF	X	18 08 07 38.4	49.8N	18.2E	1	4.0L		
ISC		Possibly mining induced (after WAR)						

NEIC M_L3.7(VIE).
NEIC ML 3.6 (CLL).

(548) Poland

ISC X 18 11 35 51.7±.59 **51.64N**±.046 **16.24E**±.081 **0** **21 1-18**
NEIC X 18 11 35 52.4 51.66N 16.21E 5 **¶97x3151**
EIDC X 18 11 35 53.7 51.5N 16.3E 0 3.5L
WAR X 18 11 35 56.0 51.48N 16.09E 2.8L
NEIC M_L3.7(VIE).
WAR Mining induced

(548) Poland

ISC X 18 18 43 51.9±.43 **51.61N**±.034 **16.28E**±.063 **0** **43 1-19**
NEIC X 18 18 43 52.4 51.62N 16.26E 5 **¶97x3213**
EIDC X 18 18 43 53.8 51.5N 16.2E 0 3.6L
SZGRF X 18 18 43 55.4 51.4N 16.2E 1 3.6L
WAR X 18 18 43 56.2 51.5N 16.1E 3.2L
NEIC M_L3.6(VIE).
WAR Mining induced

(536) Sweden

BER X 18 18 45 01.9 67.7N 20.4E 0 2.4D,1.5L ¶97x3214
BER Probable explosion

(536) Sweden

BER X 18 23 18 52.1 67.7N 20.3E 0 2.6D,1.8L ¶97x3251
BER Probable explosion

(543) Germany

ISC X 19 06 21 49.0±.88 **49.28N**±.084 **7.10E**±.085 **0** **17 1-5**
SZGRF X 19 06 21 48.9 49.2N 6.8E 1 2.5L **¶97x3305**
NEIC X 19 06 21 49.6 49.13N 6.99E 10
NEIC M_L2.6(UCC), Less reliable solution.
NEIC ML 2.2 (DBN). Mining induced event in the Lorraine region, France.

(724) Western Russia

ISC X 19 07 10 53±2.2 **67.5N**±.10 **34.7E**±.48 **0** **8 1-12**
BER X 19 07 11 00.8 67.7N 33.8E 0 2.7D **¶97x3307**
BER Probable explosion

(536) Sweden

ISC X 19 09 06 24.4±.75 **67.75N**±.076 **20.8E**±.24 **0** **8 2-8**
BER X 19 09 06 28.2 67.9N 20.8E 0 2.5D,1.7L **¶97x3322**
BER Probable explosion

(536) Sweden

BER X 19 23 16 58.7 67.9N 20.7E 0 2.4D,1.8L ¶97x3404
BER Probable explosion

(721) Finland

ISC X 20 11 09 48±1.1 **63.24N**±.080 **27.4E**±.29 **0** **8 2-8**
EIDC X 20 11 09 48.4 63.1N 27.8E 0 3.3L **¶97x3490**
BER X 20 11 09 50.1 63.0N 27.9E 0
BER Probable explosion

(724) Western Russia

BER X 20 12 28 25.5 67.7N 33.8E 0 ¶97x3496
BER Probable explosion

(535) Southern Norway

ISC X 20 13 50 58.8±.74 **60.35N**±.058 **5.5E**±.12 **0** **8 0-4**
BER X 20 13 50 58.6 60.4N 5.0E 0 1.5D,2.4L **¶97x3509**
BER Probable explosion

(724) Western Russia

BER X 20 13 52 12.5 56.6N 26.0E 0 ¶97x3511
BER Probable explosion

(724) Western Russia

BER X 21 11 00 52.9 59.6N 26.0E 0 ¶97x3644
BER Probable explosion

(536) Sweden

BER X 21 23 33 26.1 67.9N 20.6E 0 2.4D,1.8L ¶97x3717
BER Probable explosion

(536) Sweden

BER X 21 23 36 23.0 67.7N 20.4E 0 2.2D,1.6L ¶97x3718
BER Probable explosion

(723) Finland-USSR border region

ISC X 22 12 28 37±2.9 **61.0N**±.21 **29.0E**±.31 **0** **8 1-9**
EIDC X 22 12 28 39.9 60.9N 29.0E 0 3.8L **¶97x3810**
BER X 22 12 28 42.2 61.0N 29.0E 0
BER Probable explosion

(723) Finland-USSR border region

ISC X 22 12 37 43±3.4 **60.6N**±.24 **28.9E**±.36 **0** **5 2-9**
BER X 22 12 37 47.4 60.6N 28.9E 0 **¶97x3812**
BER Probable explosion

(724) Western Russia

BER X 22 12 57 09.1 59.4N 25.3E 0 ¶97x3816
BER Probable explosion

(723) Finland-USSR border region

BER X 23 10 42 45.9 61.9N 30.5E 0 ¶97x3972
BER Probable explosion

(535) Southern Norway

ISC X 23 12 38 30±1.4 **59.4N**±.12 **6.0E**±.18 **0** **4 0-1**
BER X 23 12 38 30.9 59.3N 6.1E 0 1.2D,1.6L **¶97x3997**
ISC Poorly determined
BER Probable explosion

(724) Western Russia

BER X 23 14 18 28.3 67.6N 34.0E 0 3.0D ¶97x4014
BER Probable explosion

(536) Sweden

ISC X 23 15 33 03.8±.69 **66.98N**±.065 **20.8E**±.22 **0** **13 2-11**
EIDC X 23 15 33 07.0 67.2N 21.8E 0 2.7L **¶97x4020**
BER X 23 15 33 08.6 67.0N 20.7E 0 2.8D
BER Probable explosion

(543) Germany

BUG X 23 17 27 23.1 51.7N 7.7E 1 2.1L ¶97x4036
BUG Mining induced event

(92) Leeward Islands

TRN X 23 20 30 25.7 16.0N 61.6W 3 ¶97x4059
TRN Possible explosion MD3.2 (after PAG)

(536) Sweden

BER X 23 23 29 41.2 67.7N 20.3E 0 2.8D,1.8L ¶97x4084
BER Probable explosion

(724) Western Russia

ISC X 24 12 29 53±6.9 **58.4N**±.47 **29.1E**±.65 **0** **9 3-11**
BER X 24 12 30 08.5 59.2N 28.1E 0 **¶97x4166**
EIDC X 24 12 30 09.2 59.3N 27.8E 0 3.1L
BER Probable explosion

(535) Southern Norway

BER X 24 16 08 20.4 58.9N 6.1E 0 1.7D,2.0L ¶97x4194
BER Probable explosion

(543) Germany

ISC X 24 16 10 19.4±.75 **49.33N**±.046 **6.91E**±.096 **0** **13 0-2**
LEDBW X 24 16 10 20.9 49.37N 6.96E 1 2.0L **¶97x4195**
NEIC X 24 16 10 21.2 49.43N 6.94E 10
LEDBW Mining induced event
NEIC M_L1.7(UCC).
NEIC Mining induced event in the Lorraine region, France.

(543) Germany

ISC X 24 22 17 18.4±.58 **49.15N**±.032 **6.90E**±.078 **0** **28 1-4**
SZGRF X 24 22 17 19.2 49.1N 6.7E 1 2.2L **¶97x4228**
LEDBW X 24 22 17 19.3 49.15N 6.86E 1 2.3L
LEDBW Mining induced event

(536) Sweden

BER X 24 23 25 07.9 67.6N 20.4E 0 2.2D,1.7L ¶97x4234
BER Probable explosion

(723) Finland-USSR border region

ISC X 25 12 58 08±3.5 **61.1N**±.25 **29.9E**±.38 **0** **8 2-9**
EIDC X 25 12 58 11.1 61.2N 29.9E 0 3.4L **¶97x4326**
BER X 25 12 58 13.1 61.2N 29.9E 0
BER Probable explosion

(536) Sweden

BER X 25 14 07 29.3 67.7N 20.3E 0 2.2D,1.5L ¶97x4332
BER Probable explosion

(543) Germany

BUG X 25 15 05 32.5 51.7N 7.7E 1 1.9L ¶97x4342
BUG Mining induced event

(536) Sweden

BER X 26 00 12 04.0 67.9N 20.8E 0 2.6D ¶97x4388
BER Probable explosion

(536) Sweden

BER X 26 00 15 05.0 67.9N 20.6E 0 2.1D,1.7L ¶97x4389
BER Probable explosion

(536) Sweden

ISC X 26 00 16 47.3±.71 **67.77N**±.069 **20.5E**±.23 **0** **9 2-11**
BER X 26 00 16 51.8 67.9N 20.7E 0 2.6D,2.0L **¶97x4390**
BER Probable explosion

(543) Germany

BUG X 26 15 32 36.1 51.7N 7.8E 1 1.7L ¶97x4489
BUG Mining induced event

(536) Sweden

BER X 27 00 21 39.9 67.6N 20.4E 0 2.3D,1.8L ¶97x4541
BER Probable explosion

(721) Finland

ISC X 27 11 50 15±1.5 **63.1N**±.11 **27.6E**±.41 **0** **5 2-8**
BER X 27 11 50 18.0 63.0N 27.8E 0 **¶97x4606**
BER Probable explosion

(536) Sweden

ISC X 28 00 29 50±1.9 **67.7N**±.21 **20.7E**±.51 **0** **4 2-3**
BER X 28 00 29 55.0 67.9N 20.7E 0 2.4D **¶97x4676**
ISC Poorly determined
BER Probable explosion

(543) Germany

BUG X 28 03 14 04.8 51.5N 6.5E 1 1.7L ¶97x4694
BUG Mining induced event

(491) West Virginia

ISC X 28 10 36 46.5±.45 **37.16N**±.052 **82.01W**±.053 **0** **3.4b** **23 1-146**
EIDC X 28 10 36 45.6 37.0N 81.6W 0 3.8L,3.3b **¶97x4743**
NEIC X 28 10 36 46.5 37.16N 82.03W 1
NEIC mbLg3.4(GS). Felt, Coal bump or rockburst in coal mine.
NEIC Probable coal bump. Felt.

(535) Southern Norway

BER X 28 12 37 59.2 60.5N 5.4E 0 1.5D,2.1L ¶97x4762
BER Probable explosion

(548) Poland

ISC X 28 21 14 41.9±.93 **50.17N**±.085 **18.46E**±.074 **0** **10 0-3**
WAR X 28 21 14 43.0 50.07N 18.52E 2.8L **¶97x4816**
WAR Mining induced

(536) Sweden

BER X 29 00 29 59.4 67.7N 20.3E 0 2.4D ¶97x4836
BER Probable explosion

(543) Germany

BUG X 29 08 47 14.1 51.6N 7.2E 1 0.8L ¶97x4883
BUG Mining induced event

(724) Western Russia

BER X 29 11 24 14.8 59.4N 27.2E 0 ¶97x4897
BER Probable explosion

(724) Western Russia

ISC X 29 12 15 54±6.6 **58.6N**±.45 **29.6E**±.64 **0** **8 3-11**
EIDC X 29 12 16 08.7 59.4N 28.5E 0 3.2L **¶97x4908**
BER X 29 12 16 09.2 59.4N 28.5E 0
BER Probable explosion

(724) Western Russia

ISC X 29 12 54 34±1.9 **56.9N**±.13 **23.3E**±.33 **0** **5 5-13**
BER X 29 12 54 36.7 56.8N 23.6E 0 **¶97x4912**
BER Probable explosion

(548) Poland

ISC X 29 18 50 15±1.8 **51.3N**±.13 **15.8E**±.12 **0** **13 1-4**
ISC ML2.7, mining induced (after WAR) **¶97x4938**

(543) Germany

BUG X 30 06 54 13.7 51.7N 7.8E 1 1.8L ¶97x5009
BUG Mining induced event

(724) Western Russia

BER X 30 12 59 52.4 60.8N 29.1E 0 ¶97x5040
BER Probable explosion

(92) Leeward Islands

TRN X 30 20 41 10.0 16.0N 61.6W 6 ¶97x5086
TRN Explosion. MD1.8 (after TAG)

(723) Finland-USSR border region

ISC X 31 10 00 04±1.4 **64.74N**±.092 **30.2E**±.39 **0** **8 3-9**
BER X 31 10 00 05.6 64.6N 30.9E 0 **¶97x5163**
EIDC X 31 10 00 05.6 64.7N 30.2E 0 3.2L
BER Probable explosion

(535) Southern Norway

BER X 31 12 22 25.0 60.7N 5.4E 0 1.6D ¶97x5178
BER Probable explosion

(724) Western Russia

BER X 31 13 28 50.8 56.1N 26.2E 0 ¶97x5190
BER Probable explosion

(548) Poland

ISC X 31 20 19 45.1±.73 **51.61N**±.054 **16.12E**±.081 **0** **15 1-11**
NEIC X 31 20 19 46.1 51.68N 16.10E 5 **¶97x5226**
EIDC X 31 20 19 47.1 51.5N 16.1E 0 2.8L
ISC Possibly mining induced (after WAR)

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	M_L2.8(VIE), Less reliable solution.							
	(543) Germany							
BUG	**X**	**31 22 56 10.8**±.61	**67.08N**±.059	**20.7E**±.20	**0**		**13**	**2-11**
EIDC	X	31 22 56 12.7	67.1N	20.9E	0	3.2L		¶97x5236
BER	X	31 22 56 16.3	67.1N	20.9E	0	2.7D,2.4L		
BER	Probable explosion							
	(536) Sweden							
ISC	**XI**	**01 00 33 06**±1.2	**67.8N**±.14	**20.5E**±.29	**0**		**5**	**2-5**
BER	XI	01 00 33 10.9	67.9N	20.7E	0	2.7D		¶97xi0003
BER	Probable explosion							
	(543) Germany							
BUG	**XI**	**01 02 42 12.1**	**51.5N**	**6.5E**	**1**	**1.2L**		¶97xi0015
BUG	Mining induced event							
	(543) Germany							
ISC	**XI**	**01 02 42 21.5**±.72	**51.46N**±.050	**6.40E**±.067	**0**		**29**	**1-6**
NEIC	XI	01 02 42 22.3	51.46N	6.34E	5			¶97xi0016
BUG	XI	01 02 42 22.4	51.5N	6.5E	1	2.1L		
LDG	XI	01 02 42 25.0	51.4N	6.4E		2.7L		
SZGRF	XI	01 02 42 26.4	51.4N	6.7E	1	1.9L		
STR	XI	01 02 42 26.5	51.31N	6.35E	2	3.0L		
UCC	XI	01 02 42 44.8	50.61N	6.01E	10	2.4L		
NEIC	M_L3.0(STR), M_L2.7(LDG).							
BUG	Mining induced event							
SZGRF	mining induced							
	(548) Poland							
ISC	**XI**	**01 03 13 56**±3.8	**51.7N**±.30	**16.0E**±.21	**0**		**6**	**2-3**
ISC	Possibly mining induced (after WAR)							¶97xi0021
	(535) Southern Norway							
BER	**XI**	**01 10 14 21.0**	**61.4N**	**5.5E**	**0**	**0.8D**		¶97xi0062
BER	Explosion							
	(548) Poland							
ISC	**XI**	**01 18 47 38.1**±.48	**51.67N**±.038	**16.15E**±.072	**0**		**35**	**1-18**
NEIC	XI	01 18 47 38.6	51.68N	16.13E	5			¶97xi0124
EIDC	XI	01 18 47 39.5	51.6N	16.1E	0	3.7L		
ISC	Possibly mining induced (after WAR)							
NEIC	M_L3.7(GRF), M_L3.4(FUR).							
NEIC	ML 3.4 (VIE).							
	(536) Sweden							
ISC	**XI**	**02 00 21 24.7**±.75	**67.71N**±.075	**20.4E**±.24	**0**		**9**	**2-11**
BER	XI	02 00 21 29.0	67.9N	20.5E	0	2.0L		¶97xi0165
BER	Probable explosion							
	(548) Poland							
ISC	**XI**	**02 11 25 59**±2.1	**51.7N**±.16	**16.0E**±.10	**0**		**12**	**1-4**
WAR	XI	02 11 26 02.7	51.5N	16.0E		2.4L		¶97xi0251
NEIC	XI	02 11 26 07.5	51.12N	15.74E	5			
WAR	Mining induced							
NEIC	M_L3.0(VIE), Less reliable solution.							
	(548) Poland							
ISC	**XI**	**02 12 34 58**±3.1	**51.4N**±.22	**15.9E**±.19	**0**		**5**	**1-3**
ISC	Possibly mining induced (after WAR)							¶97xi0259
	(536) Sweden							
BER	**XI**	**03 00 31 22.0**	**67.9N**	**20.9E**	**0**	**1.9L**		¶97xi0361
BER	Probable explosion							
	(723) Finland-USSR border region							
ISC	**XI**	**03 11 39 19**±7.6	**62.1N**±.53	**30E**±1.2	**0**		**5**	**2-9**
BER	XI	03 11 39 19.7	61.8N	31.3E	0			¶97xi0456
BER	Probable explosion							
	(545) Northern Italy							
LJU	**XI**	**03 13 07 47.9**	**45.4N**	**13.8E**	**0**			¶97xi0469
LJU	Quarry blast							
	(543) Germany							
BUG	**XI**	**03 13 48 59.6**	**51.5N**	**7.3E**	**1**	**0.8L**		¶97xi0475
BUG	Mining induced event							
	(535) Southern Norway							
BER	**XI**	**03 14 47 32.9**	**59.7N**	**5.2E**	**0**	**0.9D**		¶97xi0482
BER	Probable explosion							
	(536) Sweden							
BER	**XI**	**04 00 24 03.7**	**67.9N**	**20.6E**	**0**	**1.9D,1.8L**		¶97xi0541
BER	Probable explosion							
	(536) Sweden							
BER	**XI**	**04 00 32 25.9**	**67.8N**	**20.1E**	**0**	**1.8L**		¶97xi0544
BER	Probable explosion							
	(548) Poland							
ISC	**XI**	**04 01 34 32**±1.1	**50.3N**±.11	**18.92E**±.076	**0**		**9**	**1-4**
WAR	XI	04 01 34 33.4	50.2N	19.0E		2.7L		¶97xi0556
WAR	Mining induced							
	(535) Southern Norway							
BER	**XI**	**04 07 00 09.6**	**60.6N**	**5.4E**	**0**	**1.1D,1.9L**		¶97xi0591
BER	Probable explosion							
	(724) Western Russia							
ISC	**XI**	**04 11 10 35**±2.3	**67.5N**±.11	**34.8E**±.50	**0**		**6**	**1-12**
BER	XI	04 11 10 42.2	67.5N	33.9E	0			¶97xi0623
BER	Probable explosion							
	(535) Southern Norway							
BER	**XI**	**04 13 37 48.1**	**63.6N**	**10.9E**	**0**	**1.8D,1.0L**		¶97xi0646
BER	Probable explosion							
	(646) Northern Norway							
BER	**XI**	**05 11 01 19.6**	**66.4N**	**14.8E**	**0**	**2.2D,1.7L**		¶97xi0780
BER	Explosion							
	(723) Finland-USSR border region							
ISC	**XI**	**05 11 59 54**±1.3	**64.80N**±.085	**30.0E**±.38	**0**		**9**	**3-14**
BER	XI	05 11 59 55.6	64.7N	30.9E	0			¶97xi0791
EIDC	XI	05 11 59 56.4	64.8N	29.9E	0	3.1L		
BER	Probable explosion							
	(723) Finland-USSR border region							
ISC	**XI**	**05 13 54 24**±3.7	**60.9N**±.27	**28.9E**±.40	**0**		**5**	**1-9**
BER	XI	05 13 54 28.0	60.9N	29.0E	0			¶97xi0811
BER	Probable explosion							
	(548) Poland							
ISC	**XI**	**05 18 53 21.2**±.75	**50.45N**±.065	**19.01E**±.075	**0**		**12**	**1-12**
NEIC	XI	05 18 53 21.9	50.48N	19.08E	5			¶97xi0844
EIDC	XI	05 18 53 23.1	50.3N	19.0E	0	3.3L		
WAR	XI	05 18 53 24.3	50.28N	19.11E		2.7L		
NEIC	Less reliable solution.							
WAR	Mining induced							
	(548) Poland							
ISC	**XI**	**05 23 22 47.6**±.53	**50.44N**±.044	**19.00E**±.063	**0**		**26**	**1-19**
NEIC	XI	05 23 22 46.5	50.28N	19.34E	5			¶97xi0882
EIDC	XI	05 23 22 47.6	50.2N	19.3E	0	3.7L		
WAR	XI	05 23 22 50.2	50.2N	19.1E		3.4L		
NEIC	M_L3.3(VIE).							
WAR	Mining induced							
	(548) Poland							
ISC	**XI**	**06 02 23 37.1**±.82	**51.66N**±.062	**16.1E**±.12	**0**		**9**	**2-11**
EIDC	XI	06 02 23 39.4	51.6N	16.0E	0	2.9L		¶97xi0907
ISC	Possibly mining induced (after WAR)							
	(548) Poland							
ISC	**XI**	**06 03 51 13**±1.8	**51.6N**±.13	**16.1E**±.11	**0**		**14**	**1-4**
WAR	XI	06 03 51 15.9	51.5N	16.1E		2.9L		¶97xi0919
NEIC	XI	06 03 51 20.1	51.14N	15.88E	5			
WAR	Mining induced							
NEIC	M_L3.2(VIE), Less reliable solution.							
	(724) Western Russia							
BER	**XI**	**06 08 42 34.6**	**67.6N**	**33.9E**	**0**	**2.3L**		¶97xi0950
BER	Probable explosion							
	(723) Finland-USSR border region							
ISC	**XI**	**06 09 59 51**±1.4	**64.75N**±.092	**30.2E**±.40	**0**		**8**	**3-9**
EIDC	XI	06 09 59 52.8	64.7N	30.4E	0	3.3L		¶97xi0956
BER	XI	06 09 59 53.1	64.7N	30.9E	0			
BER	Probable explosion							
	(723) Finland-USSR border region							
ISC	**XI**	**06 10 06 26**±4.5	**61.1N**±.29	**29.7E**±.55	**0**		**7**	**2-9**
EIDC	XI	06 10 06 28.5	61.1N	29.9E	0	3.0L		¶97xi0958
BER	XI	06 10 06 30.5	61.2N	29.8E	0			
BER	Probable explosion							
	(723) Finland-USSR border region							
ISC	**XI**	**06 10 57 38**±3.9	**61.2N**±.26	**29.8E**±.44	**0**		**7**	**2-9**
EIDC	XI	06 10 57 42.0	61.3N	29.8E	0	3.5L		¶97xi0965
BER	XI	06 10 57 43.3	61.2N	29.8E	0			
BER	Probable explosion							
	(383) Northwestern Balkan region							
ISC	**XI**	**06 11 24 06**±3.0	**46.23N**±.077	**15.9E**±.32	**0**		**5**	**0-1**
LJU	XI	06 11 24 04.6	46.2N	16.1E	0			¶97xi0969
LJU	Quarry blast							
	(724) Western Russia							
ISC	**XI**	**06 13 10 04**±2.8	**60.9N**±.20	**29.0E**±.29	**0**		**8**	**2-9**
EIDC	XI	06 13 10 06.0	61.0N	29.2E	0	3.5L		¶97xi0982
BER	XI	06 13 10 08.9	60.9N	29.0E	0			
BER	Probable explosion							
	(535) Southern Norway							
BER	**XI**	**06 14 12 51.3**	**58.5N**	**7.1E**	**0**	**2.1D**		¶97xi0988
BER	Probable explosion							
	(543) Germany							
ISC	**XI**	**06 22 56 41**±1.4	**51.65N**±.076	**7.2E**±.17	**0**		**8**	**0-2**
BUG	XI	06 22 56 40.4	51.7N	7.1E	1	1.9L		¶97xi1047
SZGRF	XI	06 22 56 42.8	51.7N	7.2E	1	2.0L		
BUG	Mining induced event							
SZGRF	mining induced							
	(536) Sweden							
ISC	**XI**	**07 00 16 17.4**±.69	**67.68N**±.071	**20.5E**±.20	**0**		**10**	**2-11**
BER	XI	07 00 16 22.3	67.9N	20.5E	0	2.4D,2.0L		¶97xi1053
BER	Probable explosion							
	(548) Poland							
ISC	**XI**	**07 06 03 44.5**±.74	**50.55N**±.066	**18.96E**±.086	**0**		**14**	**1-19**
NEIC	XI	07 06 03 45.3	50.59N	18.98E	5			¶97xi1084
WAR	XI	07 06 03 46.6	50.4N	18.9E		3.0L		
EIDC	XI	07 06 03 46.9	50.6N	18.6E	0	3.2L		
NEIC	M_L2.9(VIE).							
WAR	Mining induced							
	(724) Western Russia							
BER	**XI**	**07 13 23 20.8**	**56.5N**	**26.0E**	**0**			¶97xi1128
EIDC	XI	07 13 23 20.6	56.6N	25.8E	0	3.2L		
BER	Probable explosion							
	(536) Sweden							
BER	**XI**	**08 00 20 56.5**	**67.9N**	**20.6E**	**0**	**1.9L**		¶97xi1191
BER	Probable explosion							
	(548) Poland							
ISC	**XI**	**08 12 19 29.8**±.40	**51.69N**±.033	**16.25E**±.055	**0**	4.0b	**55**	**1-75**
NEIC	XI	08 12 19 30.7	51.68N	16.25E	5			¶97xi1279
EIDC	XI	08 12 19 31.4	51.6N	16.6E	0	3.9L,4.0b		
SZGRF	XI	08 12 19 32.9	51.5N	16.3E	1	4.0L		
WAR	XI	08 12 19 34.0	51.51N	16.14E		3.5L		
STR	XI	08 12 19 36.5	51.02N	15.73E	24	4.1L		
NEIC	M_L3.9(VIE).							
SZGRF	mining induced							
WAR	Mining induced							
	(543) Germany							
ISC	**XI**	**08 20 05 44**±2.5	**52.3N**±.19	**7.8E**±.11	**0**		**8**	**1-6**
SZGRF	XI	08 20 05 44.3	52.4N	7.8E	1	2.8L		¶97xi1344
SZGRF	mining induced							
	(536) Sweden							
BER	**XI**	**09 00 22 05.3**	**67.9N**	**20.7E**	**0**	**2.0D,1.9L**		¶97xi1368
BER	Probable explosion							
	(536) Sweden							
BER	**XI**	**09 00 29 17.2**	**67.9N**	**20.6E**	**0**	**2.1D,1.6L**		¶97xi1371
BER	Probable explosion							
	(536) Sweden							
BER	**XI**	**09 05 12 22.7**	**67.9N**	**20.1E**	**0**	**2.4D,2.2L**		¶97xi1402
BER	Probable explosion							
	(543) Germany							
ISC	**XI**	**09 05 25 33**±1.0	**51.57N**±.084	**7.83E**±.099	**0**		**7**	**0-2**
SZGRF	XI	09 05 25 34.8	51.6N	7.8E	1	2.0L		¶97xi1403
SZGRF	mining induced							
	(536) Sweden							
BER	**XI**	**09 05 32 33.6**	**66.2N**	**22.6E**	**0**	**2.2L**		¶97xi1406
BER	Probable explosion							
	(536) Sweden							
BER	**XI**	**09 07 22 51.5**	**67.8N**	**20.1E**	**0**	**2.0D,1.5L**		¶97xi1417
BER	Probable explosion							
	(536) Sweden							
BER	**XI**	**10 00 21 57.2**	**67.8N**	**20.2E**	**0**	**1.9L**		¶97xi1530
BER	Probable explosion							
	(536) Sweden							
ISC	**XI**	**10 07 42 04**±1.5	**67.8N**±.15	**19.8E**±.58	**0**		**7**	**2-8**
BER	XI	10 07 42 08.1	67.9N	20.0E	0	2.2D,2.0L		¶97xi1577
BER	Probable explosion							

(535) Southern Norway
ISC XI 10 11 33 51±1.4 **60.41N**±.056 **4.9E**±.24 **0** **8 0-4**
BER XI 10 11 33 52.5 60.4N 4.9E 0 1.4D,1.7L **¶97xi1607**
BER Probable explosion
(536) Sweden
BER XI 10 16 38 45.1 67.3N 20.8E 0 2.4D ¶97xi1641
EIDC XI 10 16 38 40.5 67.1N 21.0E 0 2.7L
BER Probable explosion
(548) Poland
ISC XI 10 17 23 25±3.4 **51.7N**±.22 **16.1E**±.18 **0** **8 1-3**
NEIC XI 10 17 23 32.3 51.20N 15.93E 5 **¶97xi1648**
ISC Possibly mining induced (after WAR)
NEIC Poor solution.
(536) Sweden
BER XI 10 19 00 45.2 67.8N 20.2E 0 2.0D ¶97xi1659
BER Probable explosion
(543) Germany
ISC XI 10 22 06 03±1.6 **49.35N**±.048 **7.0E**±.25 **0** **8 0-2**
LEDBW XI 10 22 06 04.2 49.39N 6.98E 1 2.2L **¶97xi1683**
LEDBW Mining induced event
(536) Sweden
BER XI 11 00 32 06.1 67.8N 20.1E 0 2.0D,1.7L ¶97xi1696
BER Probable explosion
(536) Sweden
BER XI 11 00 34 36.6 67.9N 20.0E 0 1.6L ¶97xi1697
BER Probable explosion
(723) Finland-USSR border region
ISC XI 11 12 32 52±3.1 **60.8N**±.22 **28.9E**±.34 **0** **8 1-9**
EIDC XI 11 12 32 54.2 60.7N 28.9E 0 2.8L **¶97xi1788**
BER XI 11 12 32 57.3 60.8N 28.9E 0
BER Probable explosion
(535) Southern Norway
BER XI 11 14 15 37.2 58.8N 7.9E 0 1.9D,1.3L ¶97xi1803
BER Probable explosion
(535) Southern Norway
ISC XI 11 15 04 29±1.6 **59.5N**±.12 **6.4E**±.58 **0** **4 0-2**
BER XI 11 15 04 30.6 59.5N 6.6E 0 1.4D,1.5L **¶97xi1812**
ISC Poorly determined
BER Probable explosion
(536) Sweden
BER XI 11 15 42 27.6 67.8N 20.2E 0 2.1L ¶97xi1818
BER Probable explosion
(536) Sweden
BER XI 11 19 17 50.4 67.9N 20.0E 0 1.9D ¶97xi1856
BER Probable explosion
(536) Sweden
BER XI 11 21 57 26.2 67.8N 20.0E 0 2.0D,1.6L ¶97xi1882
BER Probable explosion
(548) Poland
ISC XI 11 22 42 02±2.3 **51.7N**±.16 **16.2E**±.13 **0** **8 1-4**
ISC Possibly mining induced (after WAR) **¶97xi1886**
(536) Sweden
BER XI 12 00 47 22.4 67.8N 20.1E 0 1.8L ¶97xi1910
BER Probable explosion
(723) Finland-USSR border region
ISC XI 12 10 00 11±1.3 **64.82N**±.086 **30.0E**±.38 **0** **9 3-14**
BER XI 12 10 00 13.4 64.6N 30.7E 0 **¶97xi1963**
EIDC XI 12 10 00 13.8 64.7N 29.8E 0 3.1L
BER Probable explosion
(724) Western Russia
BER XI 12 10 45 01.4 56.4N 23.0E 0 ¶97xi1969
BER Probable explosion
(535) Southern Norway
BER XI 12 10 48 59.8 60.7N 5.7E 0 1.1D ¶97xi1970
BER Probable explosion
(536) Sweden
ISC XI 12 11 40 56±1.0 **64.93N**±.094 **20.7E**±.34 **0** **5 4-6**
BER XI 12 11 41 00.3 64.9N 20.9E 0 2.1L **¶97xi1976**
BER Probable explosion
(721) Finland
ISC XI 12 11 48 35±1.2 **63.23N**±.085 **27.7E**±.31 **0** **8 2-8**
EIDC XI 12 11 48 36.1 63.2N 27.7E 0 3.2L **¶97xi1979**
BER XI 12 11 48 37.1 63.1N 27.5E 0
BER Probable explosion
(721) Finland
BER XI 12 11 48 41.8 63.1N 27.7E 0 ¶97xi1980
BER Probable explosion
(535) Southern Norway
ISC XI 12 15 40 18±1.2 **60.45N**±.061 **5.4E**±.22 **0** **5 0-1**
BER XI 12 15 40 19.3 60.4N 5.3E 0 0.8D,1.1L **¶97xi2006**
BER Probable explosion
(536) Sweden
BER XI 12 19 57 06.3 67.5N 21.5E 0 1.3L ¶97xi2029
BER Probable explosion
(536) Sweden
BER XI 12 19 58 23.4 67.8N 20.1E 0 1.6L ¶97xi2030
BER Probable explosion
(646) Northern Norway
BER XI 13 09 04 02.3 68.0N 19.7E 0 1.8L ¶97xi2106
BER Probable explosion
(535) Southern Norway
ISC XI 13 09 21 40±2.3 **60.05N**±.094 **4.4E**±.29 **0** **13 0-13**
BER XI 13 09 21 43.4 60.1N 4.6E 0 2.5D,2.2L **¶97xi2107**
BER Probable explosion
(536) Sweden
BER XI 13 10 08 19.5 67.9N 20.2E 0 2.0D,1.2L ¶97xi2117
BER Probable explosion
(721) Finland
ISC XI 13 11 46 49±1.4 **63.2N**±.12 **27.1E**±.37 **0** **5 2-8**
BER XI 13 11 46 50.9 63.1N 27.6E 0 **¶97xi2128**
BER Probable explosion
(535) Southern Norway
ISC XI 13 14 15 56±14 **58.4N**±.92 **6.4E**±.98 **0** **6 1-3**
BER XI 13 14 15 57.4 58.3N 6.5E 0 2.5D **¶97xi2149**
BER Explosion
(536) Sweden
ISC XI 13 16 34 56.1±.61 **67.06N**±.063 **21.0E**±.17 **0** **14 2-11**
BER XI 13 16 34 59.2 67.2N 21.0E 0 **¶97xi2168**
EIDC XI 13 16 35 00.1 67.2N 21.8E 0 2.7L
BER Probable explosion
(536) Sweden
BER XI 14 00 18 29.1 67.9N 20.1E 0 1.4L ¶97xi2208
BER Probable explosion
(536) Sweden
BER XI 14 00 29 07.9 67.8N 20.1E 0 2.5D,1.5L ¶97xi2211
BER Probable explosion
(723) Finland-USSR border region
ISC XI 14 11 00 24±1.3 **64.86N**±.087 **29.8E**±.37 **0** **8 3-9**
EIDC XI 14 11 00 25.4 64.8N 29.9E 0 3.2L **¶97xi2280**
BER XI 14 11 00 26.7 64.7N 30.7E 0
BER Probable explosion
(724) Western Russia
ISC XI 14 12 05 51±8.3 **58.8N**±.59 **28.7E**±.80 **0** **5 3-11**
BER XI 14 12 06 01.1 59.2N 28.0E 0 **¶97xi2286**
BER Probable explosion
(724) Western Russia
ISC XI 14 12 50 48±2.9 **67.8N**±.13 **34.2E**±.64 **0** **4 1-12**
BER XI 14 12 50 53.4 67.8N 33.7E 0 **¶97xi2291**
ISC Poorly determined
BER Probable explosion
(724) Western Russia
BER XI 14 14 09 07.3 59.4N 25.4E 0 ¶97xi2296
BER Probable explosion
(543) Germany
BUG XI 14 17 08 48.1 51.7N 7.7E 1 1.4L ¶97xi2323
BUG Mining induced event
(548) Poland
ISC XI 14 19 01 26±2.4 **51.4N**±.16 **15.8E**±.14 **0** **10 1-4**
NEIC XI 14 19 01 24.2 51.60N 16.11E 5 **¶97xi2335**
WAR XI 14 19 01 26.2 51.5N 16.0E 2.4L
NEIC M_L3.3(VIE), Poor solution.
WAR Mining induced
(536) Sweden
BER XI 15 00 20 01.8 67.9N 20.8E 0 1.8L ¶97xi2389
BER Probable explosion
(536) Sweden
BER XI 15 00 29 26.0 67.8N 20.2E 0 2.1D ¶97xi2390
BER Probable explosion
(543) Germany
BUG XI 15 04 43 53.2 51.7N 7.7E 1 1.6L ¶97xi2419
BUG Mining induced event
(535) Southern Norway
BER XI 15 14 54 50.2 61.7N 5.1E 0 0.9D ¶97xi2492
BER Probable explosion
(548) Poland
ISC XI 16 04 18 17.4±.62 **51.64N**±.048 **16.1E**±.10 **0** **16 1-18**
NEIC XI 16 04 18 18.0 51.62N 16.31E 5 **¶97xi2595**
EIDC XI 16 04 18 19.2 51.6N 16.1E 0 3.0L
WAR XI 16 04 18 21.0 51.48N 16.09E 2.4L
NEIC M_L3.0(VIE).
WAR Mining induced
(548) Poland
ISC XI 16 12 58 28±3.0 **51.5N**±.20 **16.0E**±.20 **0** **9 1-4**
NEIC XI 16 12 58 29.1 51.43N 16.15E 5 **¶97xi2650**
ISC Possibly mining induced (after WAR)
NEIC M_L3.0(VIE), Less reliable solution.
(536) Sweden
BER XI 16 18 22 41.5 67.9N 20.1E 0 1.7L ¶97xi2681
BER Probable explosion
(536) Sweden
BER XI 17 00 22 04.5 67.9N 20.1E 0 2.0D,1.8L ¶97xi2713
BER Probable explosion
(536) Sweden
BER XI 17 00 28 40.9 67.8N 20.1E 0 1.7L ¶97xi2714
BER Probable explosion
(543) Germany
ISC XI 17 04 32 28.6±.81 **49.36N**±.039 **7.0E**±.14 **0** **14 0-2**
LEDBW XI 17 04 32 29.6 49.38N 6.99E 1 2.1L **¶97xi2737**
LEDBW Mining induced event
(548) Poland
ISC XI 17 20 16 18.5±.46 **51.64N**±.038 **16.20E**±.075 **0** **31 1-18**
NEIC XI 17 20 16 19.2 51.65N 16.14E 5 **¶97xi2855**
EIDC XI 17 20 16 20.0 51.6N 16.2E 0 4.0L
WAR XI 17 20 16 23.0 51.47N 16.08E 3.2L
NEIC M_L3.7(GRF), M_L3.5(FUR).
NEIC ML 3.4 (VIE).
WAR Mining induced
(536) Sweden
BER XI 18 00 14 28.5 67.9N 20.7E 0 2.3D ¶97xi2880
BER Probable explosion
(536) Sweden
BER XI 18 00 29 15.4 67.8N 20.3E 0 1.6L ¶97xi2881
BER Probable explosion
(548) Poland
ISC XI 18 01 34 00.4±.44 **51.69N**±.036 **16.12E**±.057 **0** **51 1-18**
NEIC XI 18 01 34 00.8 51.70N 16.13E 5 **¶97xi2893**
EIDC XI 18 01 34 02.0 51.6N 16.0E 0 3.9L
SZGRF XI 18 01 34 03.5 51.5N 16.1E 1 3.9L
WAR XI 18 01 34 04.8 51.5N 16.0E 3.6L
NEIC M_L3.9(FUR).
NEIC ML 3.8 (VIE).
SZGRF mining induced
WAR Mining induced
(543) Germany
BUG XI 18 05 34 20.3 51.7N 7.7E 1 1.5L ¶97xi2915
BUG Mining induced event
(537) Baltic Sea
ISC XI 18 09 04 29±1.2 **55.15N**±.098 **19.3E**±.22 **0** **9 6-15**
EIDC XI 18 09 04 31.1 55.1N 19.5E 0 3.8L **¶97xi2934**
BER XI 18 09 04 32.8 55.0N 19.4E 0
BER Probable explosion
(535) Southern Norway
ISC XI 18 12 58 17±1.0 **60.42N**±.083 **5.3E**±.16 **0** **6 0-10**
BER XI 18 12 58 16.6 60.5N 5.5E 0 1.3D,1.9L **¶97xi2962**
BER Probable explosion
(543) Germany
ISC XI 18 17 50 18.5±.60 **49.36N**±.035 **6.97E**±.096 **0** **14 0-2**
LEDBW XI 18 17 50 19.4 49.38N 6.94E 1 2.2L **¶97xi3030**
NEIC XI 18 17 50 19.8 49.41N 6.97E 5
LEDBW Mining induced event
NEIC Mining induced event in the Lorraine region, France.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	*n*	Δ-Rng °
	(548) Poland						
ISC	**XI 18 22 06 11.1**±.77	**50.0N**±.10	**18.50E**±.074	**0**		**11**	**0-4**
WAR	XI 18 22 06 12.0	50.07N	18.53E		2.9L		**¶97xi3074**
WAR	Mining induced						
	(536) Sweden						
BER	**XI 18 23 04 46.3**	**66.9N**	**21.5E**	**0**	**1.6L**		**¶97xi3081**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 19 00 28 46.8**	**67.9N**	**20.3E**	**0**	**2.5D**		**¶97xi3092**
BER	Probable explosion						
	(543) Germany						
ISC	**XI 19 06 19 56.1**±.74	**49.13N**±.037	**6.9E**±.12	**0**		**19**	**1-2**
NEIC	XI 19 06 19 57.0	49.18N	6.92E	5			**¶97xi3150**
LEDBW	XI 19 06 19 57.1	49.16N	6.85E	1	2.3L		
LEDBW	Mining induced event						
	(646) Northern Norway						
ISC	**XI 19 08 15 52**±1.2	**66.4N**±.10	**15.3E**±.31	**0**		**8**	**2-7**
BER	XI 19 08 15 54.8	66.5N	14.7E	0	2.2D,1.8L		**¶97xi3170**
EIDC	XI 19 08 15 54.8	66.4N	15.5E	0	2.6L		
BER	Explosion						
	(721) Finland						
ISC	**XI 19 08 57 17**±2.4	**60.3N**±.29	**21.9E**±.28	**0**		**5**	**2-9**
BER	XI 19 08 57 15.4	59.6N	22.6E	0			**¶97xi3177**
BER	Probable explosion						
	(721) Finland						
ISC	**XI 19 11 43 14**±1.1	**63.17N**±.073	**27.1E**±.28	**0**		**8**	**2-8**
EIDC	XI 19 11 43 14.4	63.2N	27.4E	0	3.1L		**¶97xi3207**
BER	XI 19 11 43 17.1	63.1N	27.5E	0			
BER	Probable explosion						
	(724) Western Russia						
ISC	**XI 19 12 50 53**±3.5	**60.3N**±.24	**29.3E**±.36	**0**		**5**	**2-9**
BER	XI 19 12 50 59.9	60.5N	29.1E	0			**¶97xi3222**
BER	Probable explosion						
	(535) Southern Norway						
BER	**XI 19 13 08 03.3**	**59.4N**	**6.0E**	**0**	**1.2D**		**¶97xi3225**
BER	Probable explosion						
	(535) Southern Norway						
ISC	**XI 19 13 19 39**±1.2	**60.42N**±.054	**5.2E**±.20	**0**		**10**	**0-12**
BER	XI 19 13 19 39.4	60.4N	4.9E	0	1.6D,1.8L		**¶97xi3228**
BER	Probable explosion						
	(724) Western Russia						
BER	**XI 19 13 45 10.9**	**56.5N**	**26.1E**	**0**			**¶97xi3233**
BER	Probable explosion						
	(535) Southern Norway						
ISC	**XI 19 14 15 52**±5.4	**58.2N**±.40	**6.5E**±.39	**0**		**10**	**1-14**
BER	XI 19 14 15 56.6	58.4N	6.1E	0	2.2D		**¶97xi3236**
BER	Explosion						
	(536) Sweden						
BER	**XI 20 00 25 08.7**	**67.9N**	**20.7E**	**0**	**2.4D,1.7L**		**¶97xi3348**
BER	Probable explosion						
	(548) Poland						
ISC	**XI 20 05 03 49.7**±.52	**51.65N**±.042	**16.18E**±.068	**0**	3.4b	**26**	**1-37**
NEIC	XI 20 05 03 50.4	51.66N	16.24E	5			**¶97xi3396**
EIDC	XI 20 05 03 51.0	51.6N	16.2E	0	3.2L,3.5b		
WAR	XI 20 05 03 54.0	51.47N	16.13E		2.7L		
NEIC	$M_{L3.3}$(VIE).						
WAR	Mining induced						
	(543) Germany						
BUG	**XI 20 08 26 23.8**	**51.6N**	**7.1E**	**1**	**0.6L**		**¶97xi3422**
BUG	Mining induced event						
	(546) Austria						
LJU	**XI 20 09 57 59.4**	**46.0N**	**13.6E**	**0**			**¶97xi3440**
LJU	Quarry Blast						
	(383) Northwestern Balkan region						
LJU	**XI 20 12 49 41.1**	**45.8N**	**15.1E**	**0**			**¶97xi3464**
LJU	Quarry Blast						
	(535) Southern Norway						
ISC	**XI 20 15 33 05**±2.8	**60.4N**±.11	**4.9E**±.40	**0**		**5**	**0-1**
BER	XI 20 15 33 06.6	60.4N	4.9E	0	1.1D,1.4L		**¶97xi3482**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 20 21 15 13.9**	**68.5N**	**20.7E**	**0**	**2.1D,1.1L**		**¶97xi3533**
BER	Probable explosion						
	(536) Sweden						
ISC	**XI 21 00 18 20.0**±.79	**67.79N**±.080	**20.4E**±.25	**0**		**8**	**2-11**
BER	XI 21 00 18 23.8	68.0N	20.2E	0	2.2D,2.0L		**¶97xi3555**
BER	Probable explosion						
	(536) Sweden						
ISC	**XI 21 00 29 26**±1.2	**67.8N**±.11	**20.1E**±.40	**0**		**6**	**2-10**
BER	XI 21 00 29 28.9	67.9N	20.1E	0	2.4D,1.9L		**¶97xi3556**
ISC	Poorly determined						
BER	Probable explosion						
	(536) Sweden						
BER	**XI 21 00 31 33.7**	**67.9N**	**20.1E**	**0**	**2.0D**		**¶97xi3557**
BER	Probable explosion						
	(724) Western Russia						
ISC	**XI 21 08 35 38**±2.6	**67.7N**±.12	**34.8E**±.53	**0**		**5**	**1-12**
BER	XI 21 08 35 44.5	67.7N	34.0E	0			**¶97xi3625**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 21 09 27 10.2**	**67.8N**	**20.1E**	**0**	**2.2D,1.6L**		**¶97xi3630**
BER	Probable explosion						
	(724) Western Russia						
ISC	**XI 21 11 18 46**±2.9	**61.0N**±.21	**29.1E**±.31	**0**		**8**	**2-9**
EIDC	XI 21 11 18 49.1	61.0N	29.0E	0	3.4L		**¶97xi3640**
BER	XI 21 11 18 51.4	61.0N	29.0E	0			
BER	Probable explosion						
	(724) Western Russia						
ISC	**XI 21 11 25 30**±6.8	**62.8N**±.41	**32E**±1.2	**0**		**5**	**3-10**
BER	XI 21 11 25 22.8	62.2N	34.8E	0			**¶97xi3642**
BER	Probable explosion						
	(535) Southern Norway						
BER	**XI 21 12 24 28.9**	**60.4N**	**5.0E**	**0**	**1.1D,1.3L**		**¶97xi3650**
BER	Probable explosion						
	(724) Western Russia						
BER	**XI 21 12 27 06.4**	**67.6N**	**33.9E**	**0**			**¶97xi3651**
BER	Probable explosion						
	(724) Western Russia						
ISC	**XI 21 12 36 09**±6.4	**62.4N**±.37	**32E**±1.1	**0**		**8**	**3-10**
EIDC	XI 21 12 35 55.6	61.7N	35.0E	0	3.4L		**¶97xi3655**
BER	XI 21 12 35 57.9	61.5N	34.8E	0			
BER	Probable explosion						
	(723) Finland-USSR border region						
ISC	**XI 21 12 59 21**±2.8	**60.9N**±.20	**29.0E**±.29	**0**		**8**	**1-9**
EIDC	XI 21 12 59 23.3	60.8N	28.9E	0	3.5L		**¶97xi3656**
BER	XI 21 12 59 25.0	60.9N	29.0E	0			
BER	Probable explosion						
	(535) Southern Norway						
ISC	**XI 21 13 16 05**±1.3	**60.56N**±.072	**5.5E**±.26	**0**		**5**	**0-1**
BER	XI 21 13 16 05.7	60.5N	5.6E	0	1.1D,1.5L		**¶97xi3659**
BER	Probable explosion						
	(535) Southern Norway						
ISC	**XI 21 15 19 33**±2.2	**61.6N**±.13	**5.1E**±.37	**0**		**4**	**1-1**
BER	XI 21 15 19 35.3	61.6N	5.1E	0	1.4D,1.3L		**¶97xi3676**
ISC	Poorly determined						
BER	Probable explosion						
	(536) Sweden						
BER	**XI 21 23 12 21.6**	**66.9N**	**21.6E**	**0**	**2.4D,1.7L**		**¶97xi3756**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 22 00 29 01.7**	**67.9N**	**20.1E**	**0**	**1.6L**		**¶97xi3765**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 22 08 56 59.4**	**67.8N**	**20.1E**	**0**	**2.1D,1.5L**		**¶97xi3842**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 22 14 26 20.6**	**67.8N**	**20.2E**	**0**	**1.5L**		**¶97xi3893**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 22 21 54 43.0**	**67.8N**	**20.1E**	**0**	**1.5L**		**¶97xi3968**
BER	Probable explosion						
	(536) Sweden						
ISC	**XI 23 00 29 44.4**±.89	**67.7N**±.12	**20.3E**±.25	**0**		**6**	**2-8**
BER	XI 23 00 29 48.5	67.9N	20.2E	0	1.2L		**¶97xi3990**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 23 01 07 49.1**	**67.8N**	**20.0E**	**0**	**1.6L**		**¶97xi3995**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 23 09 22 05.4**	**67.8N**	**20.2E**	**0**	**1.5L**		**¶97xi4084**
BER	Probable explosion						
	(548) Poland						
ISC	**XI 23 18 12 42.4**±.75	**51.64N**±.057	**16.06E**±.084	**0**		**13**	**1-11**
NEIC	XI 23 18 12 43.0	51.66N	16.07E	5			**¶97xi4169**
EIDC	XI 23 18 12 44.8	51.6N	15.9E	0	2.8L		
ISC	Possibly mining induced (after WAR)						
NEIC	M_L2.9(VIE), Less reliable solution.						
	(536) Sweden						
BER	**XI 23 19 18 48.5**	**67.9N**	**20.1E**	**0**	**2.0D,1.6L**		**¶97xi4180**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 24 00 37 58.0**	**67.9N**	**20.0E**	**0**	**1.5L**		**¶97xi4233**
BER	Probable explosion						
	(724) Western Russia						
ISC	**XI 24 11 27 17**±7.0	**58.4N**±.47	**29.1E**±.66	**0**		**8**	**3-11**
BER	XI 24 11 27 31.9	59.2N	28.1E	0			**¶97xi4308**
EIDC	XI 24 11 27 33.6	59.3N	27.4E	0	3.1L		
BER	Probable explosion						
	(536) Sweden						
BER	**XI 25 00 22 26.6**	**67.9N**	**21.0E**	**0**			**¶97xi4415**
BER	Probable explosion						
	(543) Germany						
ISC	**XI 25 04 36 06.1**±.90	**51.56N**±.081	**7.87E**±.076	**0**		**9**	**0-3**
BUG	XI 25 04 36 05.7	51.7N	7.8E	1	1.8L		**¶97xi4443**
SZGRF	XI 25 04 36 07.5	51.7N	7.8E	2	2.0L		
BUG	Mining induced event						
	(724) Western Russia						
BER	**XI 25 11 50 44.3**	**59.3N**	**27.9E**	**0**			**¶97xi4501**
BER	Probable explosion						
	(721) Finland						
ISC	**XI 25 11 58 55**±2.5	**60.3N**±.26	**23.9E**±.28	**0**		**8**	**2-9**
EIDC	XI 25 11 58 49.3	59.6N	24.9E	0	3.2L		**¶97xi4503**
BER	XI 25 11 58 50.7	59.6N	24.8E	0			
BER	Probable explosion						
	(721) Finland						
ISC	**XI 25 12 00 38**±1.5	**60.5N**±.18	**21.9E**±.18	**0**		**8**	**2-9**
BER	XI 25 12 00 37.9	60.0N	22.3E	0			**¶97xi4504**
EIDC	XI 25 12 00 38.0	60.2N	22.1E	0	3.1L		
BER	Probable explosion						
	(724) Western Russia						
ISC	**XI 25 13 09 43**±3.4	**61.0N**±.24	**29.1E**±.38	**0**		**8**	**2-9**
EIDC	XI 25 13 09 47.4	61.1N	28.9E	0	3.6L		**¶97xi4517**
BER	XI 25 13 09 47.9	61.0N	29.0E	0			
BER	Probable explosion						
	(536) Sweden						
BER	**XI 25 16 30 32.3**	**66.7N**	**21.4E**	**0**	**2.7D,1.7L**		**¶97xi4548**
BER	Probable explosion						
	(536) Sweden						
BER	**XI 26 00 18 07.7**	**68.0N**	**20.2E**	**0**	**1.8L**		**¶97xi4603**
BER	Probable explosion						
	(548) Poland						
ISC	**XI 26 04 29 23**±3.5	**51.6N**±.21	**16.2E**±.20	**0**		**7**	**1-3**
NEIC	XI 26 04 29 26.4	51.40N	16.19E	5			**¶97xi4631**
ISC	Possibly mining induced (after WAR)						
NEIC	Poor solution.						
	(543) Germany						
BUG	**XI 26 05 23 58.0**	**51.7N**	**7.7E**	**1**	**1.6L**		**¶97xi4642**
BUG	Mining induced event						
	(724) Western Russia						
BER	**XI 26 10 15 38.7**	**56.2N**	**23.0E**	**0**			**¶97xi4669**
EIDC	XI 26 10 14 36.6	51.6N	25.3E	0	3.5L		
BER	Probable explosion						
	(723) Finland-USSR border region						
ISC	**XI 26 10 26 08**±4.0	**61.2N**±.29	**29.6E**±.49	**0**		**8**	**2-9**
EIDC	XI 26 10 26 06.8	60.8N	29.9E	0	3.5L		**¶97xi4670**
BER	XI 26 10 26 10.7	61.1N	29.8E	0			
BER	Probable explosion						
	(721) Finland						
ISC	**XI 26 10 28 17**±1.3	**60.4N**±.16	**21.9E**±.15	**0**	4.0b	**9**	**2-34**
EIDC	XI 26 10 28 16.3	59.9N	22.1E	0	3.1L,3.9b		**¶97xi4671**

BER XI 26 10 28 17.5 60.0N 22.3E 0
BER Probable explosion
(724) Western Russia
ISC XI 26 11 21 37±2.8 **68.21N**±.088 **34.3E**±.72 **0** **7 1-12**
BER XI 26 11 21 44.7 68.1N 33.2E 0 **¶97xi4675**
BER Probable explosion
(721) Finland
ISC XI 26 12 23 58±1.5 **60.4N**±.18 **21.8E**±.18 **0** **9 2-9**
EIDC XI 26 12 23 54.9 59.8N 22.3E 0 3.0L **¶97xi4681**
BER XI 26 12 23 57.0 59.9N 22.3E 0
BER Probable explosion
(535) Southern Norway
ISC XI 26 14 54 10±4.5 **59.4N**±.29 **6.0E**±.33 **0** **4 0-1**
BER XI 26 14 54 09.9 59.3N 6.1E 0 1.2D,1.6L **¶97xi4708**
ISC Poorly determined
BER Probable explosion
(535) Southern Norway
BER XI 26 15 21 15.8 60.9N 5.1E 0 0.9D ¶97xi4710
BER Probable explosion
(536) Sweden
BER XI 26 15 54 14.9 67.9N 20.0E 0 1.8L ¶97xi4716
BER Probable explosion
(536) Sweden
BER XI 26 17 49 13.9 67.9N 20.1E 0 1.8L ¶97xi4725
BER Probable explosion
(536) Sweden
BER XI 27 00 18 27.0 67.9N 20.1E 0 1.6L ¶97xi4765
BER Probable explosion
(536) Sweden
BER XI 27 00 29 36.1 67.9N 20.3E 0 1.8L ¶97xi4768
BER Probable explosion
(538) France
ISC XI 27 02 21 20.3±.59 **44.29N**±.033 **6.49E**±.061 **0** **19 0-1**
NEIC XI 27 02 21 20.7 44.29N 6.53E 5 **¶97xi4781**
LDG XI 27 02 21 21.7 44.3N 6.5E 2.1L
NEIC M_L2.3(GEN)
NEIC Mining induced event in the Gardanne area.
(548) Poland
ISC XI 27 06 38 17.9±.45 **51.67N**±.039 **16.08E**±.064 **0** **3.7b** **39 1-75**
NEIC XI 27 06 38 18.0 51.64N 16.16E 5 **¶97xi4815**
EIDC XI 27 06 38 19.6 51.6N 16.2E 0 3.8L,3.6b
SZGRF XI 27 06 38 19.7 51.5N 16.2E 1 3.7L
WAR XI 27 06 38 21.1 51.5N 16.1E 3.4L
NEIC M_L3.7(VIE).
SZGRF mining induced
WAR Mining induced
(721) Finland
ISC XI 27 11 27 42±1.5 **60.4N**±.18 **21.8E**±.18 **0** **8 2-9**
EIDC XI 27 11 27 40.7 60.0N 22.2E 0 3.0L **¶97xi4847**
BER XI 27 11 27 41.1 59.9N 22.4E 0
BER Probable explosion
(535) Southern Norway
ISC XI 27 15 16 30.6±.83 **60.69N**±.056 **5.6E**±.18 **0** **7 0-2**
BER XI 27 15 16 32.6 60.7N 5.5E 0 1.6D,1.3L **¶97xi4883**
BER Probable explosion
(536) Sweden
BER XI 28 00 17 19.6 67.5N 20.8E 0 2.0D,1.6L ¶97xi4968
BER Probable explosion
(536) Sweden
BER XI 28 00 19 05.9 67.9N 20.1E 0 1.7L ¶97xi4969
BER Probable explosion
(536) Sweden
BER XI 28 00 30 29.6 67.8N 20.2E 0 2.0L ¶97xi4971
BER Probable explosion
(721) Finland
ISC XI 28 08 59 32±1.6 **60.4N**±.19 **21.8E**±.18 **0** **8 2-9**
EIDC XI 28 08 59 31.4 60.1N 22.1E 0 3.0L **¶97xi5044**
BER XI 28 08 59 31.8 60.0N 22.3E 0
BER Probable explosion
(724) Western Russia
ISC XI 28 09 20 29±2.4 **67.6N**±.11 **34.8E**±.51 **0** **6 1-12**
BER XI 28 09 20 37.2 67.7N 34.0E 0 **¶97xi5051**
BER Probable explosion
(721) Finland
ISC XI 28 11 42 57±1.2 **63.07N**±.074 **27.6E**±.31 **0** **10 2-8**
EIDC XI 28 11 42 58.7 63.1N 27.9E 0 3.3L **¶97xi5078**
BER XI 28 11 43 01.1 63.1N 27.6E 0
BER Probable explosion
(535) Southern Norway
ISC XI 28 14 58 52.7±.83 **60.70N**±.053 **5.6E**±.16 **0** **7 0-2**
BER XI 28 14 58 54.3 60.7N 5.5E 0 1.6D,1.8L **¶97xi5104**
BER Probable explosion
(379) Near south coast of France
ISC XI 28 15 02 00.5±.95 **43.42N**±.054 **5.45E**±.094 **0** **8 0-1**
NEIC XI 28 15 02 00.2 43.41N 5.44E 5 **¶97xi5105**
NEIC M_L2.5(STR), Single network solution.
NEIC Mining induced event in the Gardanne area.
(383) Northwestern Balkan region
LJU XI 28 15 14 42.7 45.1N 14.5E 0 ¶97xi5108
LJU Quarry blast
(543) Germany
BUG XI 28 15 39 53.1 51.7N 7.8E 1 1.6L ¶97xi5111
BUG Mining induced event
(536) Sweden
BER XI 29 00 25 50.6 67.8N 20.3E 0 1.6L ¶97xi5164
BER Probable explosion
(548) Poland
ISC XI 29 12 26 25±5.7 **51.6N**±.34 **16.1E**±.33 **0** **10 1-3**
WAR XI 29 12 26 28.0 51.48N 16.12E 2.4L **¶97xi5265**
NEIC XI 29 12 26 32.3 51.18N 15.86E 5
WAR Mining induced
NEIC MG2.6(WAR), Less reliable solution.
(548) Poland
ISC XI 30 01 09 31±1.1 **51.62N**±.082 **16.1E**±.11 **0** **26 1-5**
NEIC XI 30 01 09 30.8 51.68N 16.07E 5 **¶97xi5349**
SZGRF XI 30 01 09 32.5 51.6N 16.1E 1 3.5L
NEIC M_L3.8(VIE).
NEIC ML 3.5 (FUR).
SZGRF mining induced
(646) Northern Norway
BER XI 30 05 51 51.0 68.2N 19.9E 0 2.3D ¶97xi5370
BER Probable explosion
(548) Poland
ISC XI 30 15 47 45±1.9 **51.5N**±.15 **16.1E**±.11 **0** **8 1-3**
NEIC XI 30 15 47 48.7 51.40N 16.15E 5 **¶97xi5427**
ISC Possibly mining induced (after WAR)
NEIC MG2.4(WAR), Less reliable solution.
(548) Poland
ISC XI 30 23 29 04±2.0 **51.6N**±.15 **16.0E**±.11 **0** **7 1-3**
NEIC XI 30 23 29 12.3 51.07N 15.67E 5 **¶97xi5479**
ISC Possibly mining induced (after WAR)
NEIC MG2.3(WAR), Less reliable solution.
(536) Sweden
ISC XII 01 00 32 39.8±.93 **67.7N**±.11 **20.4E**±.30 **0** **7 2-8**
BER XII 01 00 32 42.6 68.0N 20.1E 0 2.3D,1.7L **¶97xii0003**
BER Probable explosion
(724) Western Russia
ISC XII 01 08 55 17±8.2 **58.8N**±.59 **28.6E**±.80 **0** **5 3-11**
BER XII 01 08 55 27.5 59.2N 28.1E 0 **¶97xii0055**
BER Probable explosion
(536) Sweden
BER XII 01 09 30 17.0 67.4N 21.0E 0 2.0D,1.5L ¶97xii0060
BER Probable explosion
(543) Germany
BUG XII 01 10 04 48.3 51.6N 7.0E 1 1.2L ¶97xii0066
BUG Mining induced event
(724) Western Russia
ISC XII 01 12 39 58±2.4 **67.7N**±.12 **34.4E**±.49 **0** **6 1-12**
BER XII 01 12 40 03.7 67.6N 33.9E 0 **¶97xii0086**
BER Probable explosion
(724) Western Russia
BER XII 01 12 40 13.0 67.7N 34.0E 0 ¶97xii0087
BER Probable explosion
(724) Western Russia
ISC XII 01 12 45 20±2.3 **67.6N**±.10 **34.7E**±.48 **0** **7 1-12**
BER XII 01 12 45 27.0 67.7N 33.9E 0 **¶97xii0088**
BER Probable explosion
(543) Germany
BUG XII 01 15 18 10.3 51.7N 7.7E 1 1.9L ¶97xii0104
BUG Mining induced event
(724) Western Russia
ISC XII 02 12 36 16±7.3 **58.5N**±.49 **29.8E**±.66 **0** **7 3-11**
BER XII 02 12 36 31.4 59.3N 28.6E 0 **¶97xii0246**
EIDC XII 02 12 36 31.5±4.61 59.3N 28.3E 0 3.2L
BER Probable explosion
EIDC Error ellipse is semi−major=34.5km semi−minor=15.8km azimuth=151
(724) Western Russia
BER XII 02 14 02 15.3 57.7N 28.2E 0 ¶97xii0261
BER Probable explosion
(535) Southern Norway
ISC XII 02 14 58 41±1.6 **60.37N**±.064 **4.8E**±.27 **0** **6 0-1**
BER XII 02 14 58 42.4 60.4N 4.9E 0 1.4D,1.6L **¶97xii0265**
BER Probable explosion
(379) Near south coast of France
ISC XII 02 15 58 52.8±.84 **43.43N**±.053 **5.46E**±.077 **0** **13 0-2**
NEIC XII 02 15 58 52.6 43.42N 5.44E 5 **¶97xii0277**
NEIC M_L2.7(STR), Single network solution.
NEIC Mining induced event in the Gardanne area.
(536) Sweden
BER XII 02 16 53 50.2 68.0N 20.5E 0 2.1D,1.7L ¶97xii0284
BER Probable explosion
(543) Germany
ISC XII 02 20 03 40±1.2 **51.6N**±.12 **7.9E**±.12 **0** **5 0-2**
BUG XII 02 20 03 40.6 51.7N 7.8E 1 1.7L **¶97xii0303**
SZGRF XII 02 20 03 41.2 51.8N 7.6E 1 2.1L
BUG Mining induced event
SZGRF mining induced
(536) Sweden
BER XII 03 00 21 58.0 67.9N 20.1E 0 1.8L ¶97xii0335
BER Probable explosion
(536) Sweden
BER XII 03 00 29 25.8 67.9N 20.2E 0 1.8L ¶97xii0338
BER Probable explosion
(543) Germany
BUG XII 03 04 20 33.9 51.6N 7.0E 1 1.1L ¶97xii0362
BUG Mining induced event
(543) Germany
BUG XII 03 05 41 20.8 51.6N 7.2E 1 1.4L ¶97xii0366
BUG Mining induced event
(723) Finland-USSR border region
ISC XII 03 10 00 58±1.3 **64.80N**±.085 **29.9E**±.40 **0** **8 3-14**
EIDC XII 03 10 00 57.5±4.25 64.7N 30.6E 0 3.1L **¶97xii0402**
BER XII 03 10 01 00.4 64.7N 30.6E 0
EIDC Error ellipse is semi−major=57.4km semi−minor=17.5km azimuth=104
BER Probable explosion
(724) Western Russia
BER XII 03 11 08 53.2 56.2N 22.9E 0 ¶97xii0409
EIDC XII 03 11 08 54.4±6.20 56.4N 22.9E 0 3.1L
BER Probable explosion
EIDC Error ellipse is semi−major=53.4km semi−minor=29.6km azimuth=162
(723) Finland-USSR border region
ISC XII 03 11 59 11±3.4 **60.9N**±.24 **28.8E**±.31 **0** **7 1-9**
EIDC XII 03 11 59 13.8±4.40 61.1N 28.9E 0 3.4L **¶97xii0416**
BER XII 03 11 59 15.4 60.9N 28.7E 0
EIDC Error ellipse is semi−major=39.9km semi−minor=23.6km azimuth=154
BER Probable explosion
(543) Germany
ISC XII 03 19 23 10.8±.83 **51.65N**±.082 **7.78E**±.073 **0** **13 0-4**
BUG XII 03 19 23 10.0 51.7N 7.8E 1 2.6L **¶97xii0487**
SZGRF XII 03 19 23 12.1 51.7N 7.7E 1 2.6L
BUG Mining induced event
SZGRF mining induced
(543) Germany
ISC XII 03 19 23 36.9±.69 **49.11N**±.038 **6.88E**±.082 **0** **22 1-4**
LEDBW XII 03 19 23 37.4 49.16N 6.87E 1 2.3L **¶97xii0488**
LEDBW Mining induced event
(536) Sweden
BER XII 04 00 30 01.2 67.8N 20.1E 0 1.8L ¶97xii0524
BER Probable explosion
(535) Southern Norway
ISC XII 04 12 57 47±1.1 **60.60N**±.059 **5.3E**±.22 **0** **5 0-1**
BER XII 04 12 57 48.1 60.6N 5.2E 0 1.2D **¶97xii0618**

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
BER	Probable explosion						
	(535) Southern Norway						
ISC	**XII 04 14 32 52**±1.1	**60.52N**±.081	**5.6E**±.16	**0**		**6**	**0-1**
BER	XII 04 14 32 53.3	60.5N	5.5E	0	1.2D,1.8L		¶97xii0628
BER	Probable explosion						
	(724) Western Russia						
BER	**XII 04 14 47 32.0**	**55.3N**	**30.8E**	**0**			¶97xii0633
BER	Probable explosion						
	(543) Germany						
BUG	**XII 04 17 20 43.6**	**51.6N**	**7.2E**	**1**	**1.0L**		¶97xii0656
BUG	Mining induced event						
	(535) Southern Norway						
BER	**XII 04 19 05 30.0**	**60.5N**	**5.5E**	**0**	**1.1D**		¶97xii0671
BER	Probable explosion						
	(536) Sweden						
BER	**XII 05 00 22 35.7**	**67.9N**	**20.0E**	**0**	**2.0L**		¶97xii0733
BER	Probable explosion						
	(536) Sweden						
BER	**XII 05 00 29 29.9**	**67.6N**	**21.2E**	**0**			¶97xii0737
BER	Probable explosion						
	(536) Sweden						
BER	**XII 05 00 29 59.8**	**67.9N**	**19.8E**	**0**	**1.9L**		¶97xii0739
BER	Probable explosion						
	(724) Western Russia						
ISC	**XII 05 08 28 04**±2.0	**67.59N**±.082	**34.8E**±.44	**0**		**9**	**1-12**
BER	XII 05 08 28 10.2	67.7N	34.4E	0	2.7L		¶97xii0812
EIDC	XII 05 08 28 13.5±6.06	67.6N	33.1E	0	3.1L		
BER	Probable explosion						
EIDC	Error ellipse is semi−major=64.4km semi−minor=19.2km azimuth=77						
	(721) Finland						
BER	**XII 05 11 42 41.9**	**63.1N**	**27.6E**	**0**			¶97xii0839
BER	Probable explosion						
	(721) Finland						
BER	**XII 05 11 57 12.9**	**63.7N**	**23.6E**	**0**			¶97xii0848
BER	Probable explosion						
	(722) Norway-USSR border region						
BER	**XII 05 12 16 14.2**	**69.5N**	**30.9E**	**0**	**2.7D,2.2L**		¶97xii0856
BER	Probable explosion						
	(724) Western Russia						
BER	**XII 05 12 50 17.4**	**67.7N**	**33.7E**	**0**	**2.3L**		¶97xii0871
BER	Probable explosion						
	(724) Western Russia						
ISC	**XII 05 14 01 58**±4.9	**61.0N**±.32	**29.1E**±.57	**0**		**4**	**2-9**
BER	XII 05 14 02 02.4	61.0N	29.1E	0			¶97xii0892
ISC	Poorly determined						
BER	Probable explosion						
	(536) Sweden						
ISC	**XII 06 00 25 24.0**±.93	**67.76N**±.076	**20.6E**±.29	**0**		**8**	**2-11**
BER	XII 06 00 25 28.8	67.9N	20.6E	0	1.8L		¶97xii1174
BER	Probable explosion						
	(543) Germany						
ISC	**XII 06 03 39 56.0**±.45	**49.34N**±.031	**6.83E**±.056	**0**		**23**	**0-3**
LDG	XII 06 03 39 56.7	49.4N	7.0E		2.4L		¶97xii1228
NEIC	XII 06 03 39 57.1	49.35N	6.81E	5			
LEDBW	XII 06 03 39 57.8	49.38N	6.89E	1	2.1L		
NEIC	$M_{L2.1}$(FBB).						
NEIC	Mining induced event in the Lorraine region, France.						
LEDBW	Mining induced event						
	(383) Northwestern Balkan region						
LJU	**XII 06 12 19 41.0**	**46.7N**	**15.23E**	**0**			¶97xii1399
LJU	Quarry blast						
	(460) Wyoming						
ISC	**XII 06 18 49 25**±3.1	**43.1N**±.43	**104.6W**±.32	**0**	4.2b	**5**	**4-68**
EIDC	XII 06 18 49 25.9±3.36	42.9N	104.6W	0	3.7b,4.5L		¶97xii1494
ISC	Possible mineblast (after NEIC)						
EIDC	Error ellipse is semi−major=69.7km semi−minor=17.0km azimuth=164						
	(536) Sweden						
BER	**XII 07 00 28 56.7**	**67.7N**	**20.5E**	**0**	**2.4D,2.0L**		¶97xii1566
BER	Probable explosion						
	(536) Sweden						
ISC	**XII 07 00 33 59**±2.0	**67.9N**±.19	**20.4E**±.46	**0**		**4**	**2-3**
BER	XII 07 00 34 01.6	67.9N	20.1E	0	2.3D,1.8L		¶97xii1567
ISC	Poorly determined						
BER	Probable explosion						
	(383) Northwestern Balkan region						
ISC	**XII 07 14 23 15**±2.6	**46.20N**±.083	**16.0E**±.25	**0**		**9**	**0-3**
LJU	XII 07 14 23 13.9	46.2N	16.1E	0			¶97xii1717
NEIC	XII 07 14 23 16.3	46.20N	15.99E	10			
LJU	Quarry blast						
NEIC	Less reliable solution.						
	(548) Poland						
ISC	**XII 08 03 31 42**±1.4	**51.1N**±.13	**15.67E**±.091	**0**		**9**	**0-3**
WAR	XII 08 03 31 39.0	51.5N	16.1E		2.5L		¶97xii1852
NEIC	XII 08 03 31 44.0	51.04N	15.78E	5			
WAR	Mining induced						
NEIC	$M_{L2.9}$(VIE).						
	(548) Poland						
ISC	**XII 08 08 48 58.5**±.63	**51.67N**±.048	**16.28E**±.094	**0**		**21**	**1-18**
NEIC	XII 08 08 48 59.2	51.67N	16.28E	5			¶97xii1897
EIDC	XII 08 08 49 00.4±1.77	51.6N	16.2E	0	3.4L		
WAR	XII 08 08 49 02.7	51.5N	16.1E		3.0L		
NEIC	$M_{L3.7}$(GRF), $M_{L3.5}$(VIE).						
EIDC	Error ellipse is semi−major=36.2km semi−minor=15.5km azimuth=110						
WAR	Mining induced						
	(724) Western Russia						
BER	**XII 08 13 15 33.1**	**55.7N**	**24.0E**	**0**			¶97xii1930
BER	Probable explosion						
	(548) Poland						
ISC	**XII 08 18 48 10.7**±.79	**51.70N**±.058	**16.1E**±.10	**0**		**17**	**1-11**
NEIC	XII 08 18 48 11.0	51.67N	16.25E	5			¶97xii1991
EIDC	XII 08 18 48 12.6±2.12	51.6N	16.5E	0	3.3L		
WAR	XII 08 18 48 14.8	51.5N	16.1E		2.8L		
NEIC	MG2.9(WAR).						
EIDC	Error ellipse is semi−major=25.9km semi−minor=15.5km azimuth=99						
WAR	Mining induced						
	(536) Sweden						
BER	**XII 09 00 19 51.0**	**67.9N**	**20.2E**	**0**	**1.9D,1.7L**		¶97xii2048
BER	Probable explosion						
	(536) Sweden						
BER	**XII 09 00 22 00.0**	**67.9N**	**20.2E**	**0**	**2.2D,1.8L**		¶97xii2050
BER	Probable explosion						
	(536) Sweden						
BER	**XII 09 00 51 46.0**	**67.9N**	**20.0E**	**0**	**1.8D**		¶97xii2060
BER	Probable explosion						
	(383) Northwestern Balkan region						
LJU	**XII 09 12 03 42.9**	**46.3N**	**16.0E**	**0**			¶97xii2163
LJU	Quarry blast						
	(724) Western Russia						
BER	**XII 09 13 25 28.0**	**57.5N**	**25.6E**	**0**			¶97xii2174
BER	Probable explosion						
	(535) Southern Norway						
BER	**XII 09 14 11 03.8**	**59.4N**	**6.1E**	**0**	**1.4D,1.6L**		¶97xii2183
BER	Probable explosion						
	(548) Poland						
ISC	**XII 09 15 23 27**±1.7	**51.4N**±.15	**15.8E**±.12	**0**		**9**	**1-4**
WAR	XII 09 15 23 25.1	51.5N	16.1E		3.0L		¶97xii2192
NEIC	XII 09 15 23 26.4	51.37N	16.10E	5			
WAR	Mining induced						
NEIC	M_L3.5(VIE), Poor solution.						
	(724) Western Russia						
BER	**XII 10 11 34 33.9**	**59.2N**	**26.8E**	**0**			¶97xii2338
BER	Probable explosion						
	(722) Norway-USSR border region						
ISC	**XII 10 12 21 19**±1.9	**69.31N**±.098	**31.1E**±.47	**0**		**7**	**2-12**
BER	XII 10 12 21 24.6	69.5N	30.8E	0			¶97xii2350
BER	Probable explosion						
	(535) Southern Norway						
ISC	**XII 10 12 27 30**±4.7	**60.3N**±.25	**5.4E**±.38	**0**		**4**	**0-1**
BER	XII 10 12 27 31.2	60.2N	5.3E	0	1.1D,1.4L		¶97xii2352
ISC	Poorly determined						
BER	Probable explosion						
	(535) Southern Norway						
BER	**XII 10 13 49 47.4**	**62.0N**	**5.6E**	**0**	**1.5D**		¶97xii2364
BER	Probable explosion						
	(535) Southern Norway						
ISC	**XII 10 14 53 54**±2.5	**61.1N**±.15	**7.4E**±.38	**0**		**5**	**1-1**
BER	XII 10 14 53 55.9	61.1N	7.5E	0	1.5D		¶97xii2371
BER	Probable explosion						
	(536) Sweden						
ISC	**XII 10 16 30 35.9**±.58	**66.99N**±.055	**21.0E**±.17	**0**		**13**	**2-11**
EIDC	XII 10 16 30 38.0±2.02	67.0N	21.3E	0	2.9L		¶97xii2390
BER	XII 10 16 30 40.8	67.2N	20.7E	0	2.7D,1.8L		
EIDC	Error ellipse is semi−major=29.1km semi−minor=17.2km azimuth=105						
BER	Probable explosion						
	(536) Sweden						
BER	**XII 10 23 00 18.6**	**67.2N**	**20.5E**	**0**	**2.0D,1.7L**		¶97xii2441
BER	Probable explosion						
	(548) Poland						
ISC	**XII 11 00 07 15.4**±.51	**51.71N**±.039	**16.08E**±.070	**0**	3.4b	**38**	**1-60**
NEIC	XII 11 00 07 15.6	51.71N	16.15E	5	3.5b		¶97xii2447
SZGRF	XII 11 00 07 17.5	51.6N	16.1E	1	3.7L		
EIDC	XII 11 00 07 17.5±1.23	51.7N	16.4E	0	3.5L,3.4b		
WAR	XII 11 00 07 19.6	51.5N	16.0E		3.3L		
NEIC	$M_{L3.7}$(VIE).						
SZGRF	mining induced						
EIDC	Error ellipse is semi−major=27.0km semi−minor=10.8km azimuth=100						
WAR	Mining induced						
	(536) Sweden						
BER	**XII 11 00 18 49.9**	**67.9N**	**20.1E**	**0**	**2.0D**		¶97xii2448
BER	Probable explosion						
	(536) Sweden						
BER	**XII 11 00 35 42.0**	**67.9N**	**20.1E**	**0**	**2.2D,1.7L**		¶97xii2454
BER	Probable explosion						
	(723) Finland-USSR border region						
ISC	**XII 11 10 04 00**±1.3	**64.82N**±.085	**30.0E**±.38	**0**		**9**	**3-14**
EIDC	XII 11 10 03 58.7±4.08	64.7N	31.0E	0	3.5L		¶97xii2541
BER	XII 11 10 04 02.2	64.7N	30.7E	0			
EIDC	Error ellipse is semi−major=55.2km semi−minor=23.2km azimuth=106						
BER	Probable explosion						
	(646) Northern Norway						
BER	**XII 11 11 35 45.1**	**66.4N**	**14.7E**	**0**	**2.6D,1.8L**		¶97xii2554
BER	Explosion						
	(724) Western Russia						
ISC	**XII 11 14 37 28**±2.3	**67.6N**±.10	**35.0E**±.49	**0**		**7**	**1-12**
BER	XII 11 14 37 36.0	67.7N	34.1E	0			¶97xii2582
BER	Probable explosion						
	(543) Germany						
BUG	**XII 11 15 06 27.8**	**51.6N**	**7.2E**	**1**	**1.3L**		¶97xii2589
BUG	Mining induced event						
	(548) Poland						
ISC	**XII 11 23 09 54.6**±.69	**50.49N**±.064	**18.97E**±.076	**0**		**12**	**1-19**
NEIC	XII 11 23 09 55.1	50.50N	18.95E	5			¶97xii2654
EIDC	XII 11 23 09 55.8±2.62	50.4N	19.0E	0	3.1L		
WAR	XII 11 23 09 57.3	50.2N	19.0E		2.7L		
NEIC	MG2.6(WAR).						
EIDC	Error ellipse is semi−major=38.5km semi−minor=17.0km azimuth=132						
WAR	Mining induced						
	(536) Sweden						
BER	**XII 12 00 17 43.8**	**67.8N**	**20.1E**	**0**	**2.3D,2.0L**		¶97xii2666
BER	Probable explosion						
	(536) Sweden						
BER	**XII 12 00 22 06.4**	**67.8N**	**20.1E**	**0**	**1.9D,1.7L**		¶97xii2667
BER	Probable explosion						
	(543) Germany						
ISC	**XII 12 02 53 49**±1.2	**51.49N**±.090	**6.8E**±.17	**0**		**5**	**0-2**
BUG	XII 12 02 53 47.7	51.6N	6.8E	1	1.7L		¶97xii2684
ISC	Poorly determined						
BUG	Mining induced event						
	(535) Southern Norway						
BER	**XII 12 12 21 11.1**	**62.2N**	**5.6E**	**0**	**1.7D**		¶97xii2747
BER	Probable explosion						
	(536) Sweden						
ISC	**XII 12 16 30 04.9**±.58	**66.99N**±.055	**21.0E**±.17	**0**		**13**	**2-11**
EIDC	XII 12 16 30 07.7±2.07	67.0N	21.3E	0	2.8L		¶97xii2783
BER	XII 12 16 30 08.2	67.1N	21.0E	0	2.9D		
EIDC	Error ellipse is semi−major=44.6km semi−minor=14.5km azimuth=117						
BER	Probable explosion						
	(543) Germany						
LEDBW	**XII 13 00 12 03.4**	**49.21N**	**6.97E**	**1**	**1.9L**		¶97xii2844
LEDBW	Mining induced event						

(536) Sweden
BER XII 13 00 23 28.3 67.9N 20.1E 0 1.7L ¶97xii2847
BER Probable explosion
(536) Sweden
ISC XII 13 00 29 31.2±.92 67.76N±.097 20.3E±.32 0 8 2-8
BER XII 13 00 29 34.5 67.9N 20.1E 0 1.8L **¶97xii2848**
BER Probable explosion
(724) Western Russia
ISC XII 13 04 16 16±2.0 67.58N±.077 34.7E±.44 0 11 1-12
BER XII 13 04 16 23.8 67.7N 33.9E 0 **¶97xii2883**
EIDC XII 13 04 16 25.2±3.60 67.6N 33.3E 0 3.2L
BER Probable explosion
EIDC Error ellipse is semi−major=31.3km semi−minor=16.9km azimuth=94
(724) Western Russia
ISC XII 13 06 55 34±2.4 67.6N±.11 34.6E±.49 0 8 1-12
BER XII 13 06 55 41.3 67.7N 33.7E 0 **¶97xii2906**
BER Probable explosion
(548) Poland
ISC XII 13 17 59 31.1±.75 51.67N±.055 16.1E±.10 0 14 1-11
NEIC XII 13 17 59 31.7 51.66N 16.20E 5 **¶97xii2987**
EIDC XII 13 17 59 33.6±2.11 51.6N 16.1E 0 3.0L
WAR XII 13 17 59 35.3 51.5N 16.0E 2.7L
NEIC ML3.4(VIE).
EIDC Error ellipse is semi−major=25.6km semi−minor=15.4km azimuth=91
WAR Mining induced
(543) Germany
ISC XII 13 19 17 23±1.0 51.58N±.084 7.92E±.094 0 8 0-2
BUG XII 13 19 17 21.8 51.7N 7.9E 1 2.2L **¶97xii3000**
BUG Mining induced event
(536) Sweden
BER XII 14 00 19 47.5 67.9N 20.9E 0 ¶97xii3043
BER Probable explosion
(536) Sweden
BER XII 14 00 22 29.7 67.6N 21.6E 0 1.2L ¶97xii3045
BER Probable explosion
(536) Sweden
BER XII 15 00 25 24.2 67.9N 20.1E 0 2.0D,1.8L ¶97xii3213
BER Probable explosion
(724) Western Russia
BER XII 15 12 23 32.7 59.1N 27.9E 0 ¶97xii3283
BER Probable explosion
(543) Germany
BUG XII 16 04 14 44.6 51.7N 7.8E 1 1.6L ¶97xii3381
BUG Mining induced event
(548) Poland
ISC XII 16 04 24 43.6±.55 51.73N±.042 16.23E±.092 0 28 1-18
NEIC XII 16 04 24 44.1 51.70N 16.28E 5 **¶97xii3382**
EIDC XII 16 04 24 44.5±2.13 51.6N 16.6E 0 3.5L
WAR XII 16 04 24 48.0 51.51N 16.07E 3.0L
NEIC ML3.6(GRF), ML3.5(VIE).
EIDC Error ellipse is semi−major=46.6km semi−minor=18.1km azimuth=111
WAR Mining induced
(543) Germany
ISC XII 16 06 06 33.0±.77 51.55N±.058 7.60E±.069 0 26 0-6
BUG XII 16 06 06 34.2 51.6N 7.6E 1 2.1L **¶97xii3396**
NEIC XII 16 06 06 35.7 51.56N 7.35E 10
LDG XII 16 06 06 36.5 51.5N 7.4E 2.9L
BUG Mining induced event
NEIC ML2.9(STR), Less reliable solution.
NEIC ML 2.5 (DBN).
(543) Germany
BUG XII 16 09 50 44.4 51.7N 7.7E 1 1.6L ¶97xii3431
BUG Mining induced event
(724) Western Russia
BER XII 16 12 30 29.8 67.5N 34.1E 0 ¶97xii3449
BER Probable explosion
(535) Southern Norway
ISC XII 16 13 19 21±2.3 60.39N±.089 4.9E±.36 0 5 0-1
BER XII 16 13 19 23.1 60.4N 5.0E 0 1.4D,1.7L **¶97xii3452**
BER Probable explosion
(535) Southern Norway
ISC XII 16 14 19 30±3.1 58.7N±.25 7.0E±.19 0 9 1-13
BER XII 16 14 19 28.7 58.3N 6.3E 0 2.2D,1.5L **¶97xii3460**
BER Explosion
(721) Finland
ISC XII 16 14 52 51±2.7 60.2N±.28 23.4E±.28 0 9 2-9
BER XII 16 14 52 50.6 59.7N 23.9E 0 **¶97xii3469**
EIDC XII 16 14 52 52.9±2.31 60.2N 23.4E 0 3.3L
BER Probable explosion
EIDC Error ellipse is semi−major=27.6km semi−minor=10.7km azimuth=159
(536) Sweden
ISC XII 17 00 18 11±1.1 67.8N±.12 20.2E±.47 0 6 2-8
BER XII 17 00 18 15.9 67.9N 19.9E 0 2.2L **¶97xii3527**
BER Probable explosion
(536) Sweden
BER XII 17 00 28 50.6 67.9N 20.3E 0 1.8L ¶97xii3528
BER Probable explosion
(535) Southern Norway
ISC XII 17 14 13 40±1.4 59.4N±.11 6.0E±.16 0 6 0-2
BER XII 17 14 13 40.8 59.3N 6.1E 0 1.6D,1.6L **¶97xii3612**
BER Explosion
(543) Germany
BUG XII 17 15 19 28.6 51.6N 7.2E 1 1.0L ¶97xii3622
BUG Mining induced event
(536) Sweden
ISC XII 17 16 30 18.1±.66 67.01N±.070 20.9E±.21 0 12 2-8
EIDC XII 17 16 30 19.6±2.00 67.2N 20.9E 0 2.8L **¶97xii3631**
BER XII 17 16 30 21.2 67.1N 20.8E 0 1.8L
EIDC Error ellipse is semi−major=26.7km semi−minor=15.1km azimuth=110
BER Probable explosion
(548) Poland
ISC XII 17 21 04 07.0±.76 51.70N±.061 16.0E±.10 0 14 1-12
NEIC XII 17 21 04 07.6 51.69N 16.15E 5 **¶97xii3662**
EIDC XII 17 21 04 09.4±2.35 51.7N 15.8E 0 3.4L
ISC Possibly mining induced (after WAR)
NEIC ML3.7(VIE).
EIDC Error ellipse is semi−major=38.8km semi−minor=17.3km azimuth=109
(543) Germany
BUG XII 17 22 13 04.8 51.7N 7.7E 1 1.3L ¶97xii3668
BUG Mining induced event
(536) Sweden
ISC XII 18 00 19 38.9±.79 67.82N±.083 20.4E±.20 0 9 2-8
BER XII 18 00 19 42.4 67.8N 20.7E 0 2.1L **¶97xii3683**
BER Probable explosion
(721) Finland
ISC XII 18 11 42 16±1.2 63.06N±.074 27.6E±.29 0 9 2-8
EIDC XII 18 11 42 18.7±2.09 63.1N 27.8E 0 3.5L **¶97xii3757**
BER XII 18 11 42 19.7 63.1N 27.7E 0
EIDC Error ellipse is semi−major=16.1km semi−minor=13.8km azimuth=81
BER Probable explosion
(535) Southern Norway
ISC XII 18 14 17 59±12 58.6N±.72 6.2E±.46 0 5 1-2
BER XII 18 14 17 55.4 58.3N 6.4E 0 2.1D **¶97xii3780**
ISC Poorly determined
BER Explosion
(543) Germany
BUG XII 19 00 10 14.9 51.7N 7.7E 1 1.4L ¶97xii3858
BUG Mining induced event
(536) Sweden
ISC XII 19 00 30 11±1.4 67.9N±.15 20.2E±.50 0 5 2-8
BER XII 19 00 30 15.7 68.0N 20.5E 0 **¶97xii3861**
ISC Poorly determined
BER Probable explosion
(724) Western Russia
BER XII 19 09 42 28.6 67.7N 33.9E 0 ¶97xii3924
BER Probable explosion
(724) Western Russia
BER XII 19 12 00 09.1 59.5N 28.3E 0 ¶97xii3951
BER Probable explosion
(724) Western Russia
ISC XII 19 12 30 18±3.8 60.9N±.25 29.1E±.45 0 7 2-9
EIDC XII 19 12 30 20.6±4.16 60.8N 28.9E 0 3.4L **¶97xii3959**
BER XII 19 12 30 23.7 61.0N 28.9E 0
EIDC Error ellipse is semi−major=30.9km semi−minor=21.4km azimuth=133
BER Probable explosion
(724) Western Russia
BER XII 19 13 06 46.8 67.6N 33.6E 0 ¶97xii3968
BER Probable explosion
(543) Germany
BUG XII 19 14 11 14.6 51.7N 7.7E 1 1.6L ¶97xii3979
BUG Mining induced event
(543) Germany
BUG XII 19 14 29 33.4 51.6N 7.2E 1 1.1L ¶97xii3981
BUG Mining induced event
(536) Sweden
BER XII 20 00 40 48.9 67.8N 20.1E 0 2.0D,1.8L ¶97xii4058
BER Probable explosion
(548) Poland
ISC XII 20 04 22 35.0±.55 51.65N±.040 16.24E±.095 0 29 1-18
NEIC XII 20 04 22 35.6 51.67N 16.19E 5 **¶97xii4079**
EIDC XII 20 04 22 36.7±2.39 51.6N 16.1E 0 3.6L
WAR XII 20 04 22 39.0 51.47N 16.12E 3.1L
NEIC ML3.7(GRF), ML3.4(VIE).
EIDC Error ellipse is semi−major=40.4km semi−minor=25.3km azimuth=110
WAR Mining induced
(536) Sweden
BER XII 20 13 42 06.3 67.8N 20.1E 0 2.2D,1.9L ¶97xii4127
BER Probable explosion
(548) Poland
ISC XII 20 23 24 18±1.1 50.4N±.12 18.91E±.095 0 10 1-4
WAR XII 20 23 24 20.4 50.2N 18.9E 2.9L **¶97xii4181**
WAR Mining induced
(536) Sweden
ISC XII 21 00 17 04.3±.74 67.76N±.072 20.4E±.22 0 9 2-8
BER XII 21 00 17 07.8 68.0N 20.2E 0 1.9L **¶97xii4185**
BER Probable explosion
(548) Poland
ISC XII 21 00 57 32±1.4 50.4N±.15 18.8E±.11 0 9 1-4
WAR XII 21 00 57 32.5 50.28N 18.87E 2.8L **¶97xii4189**
WAR Mining induced
(548) Poland
ISC XII 21 01 04 53±3.8 51.4N±.23 16.0E±.23 0 8 1-3
ISC Possibly mining induced (after WAR) **¶97xii4190**
(724) Western Russia
ISC XII 21 04 59 19±1.1 67.42N±.068 32.7E±.26 0 14 0-11
EIDC XII 21 04 59 19.1±3.11 67.5N 33.3E 0 3.5L **¶97xii4216**
BER XII 21 04 59 19.9 67.6N 33.8E 0 3.1L
EIDC Error ellipse is semi−major=27.8km semi−minor=15.7km azimuth=89
BER Probable explosion
(548) Poland
ISC XII 21 13 28 45±2.7 51.3N±.17 15.9E±.16 0 9 1-3
NEIC XII 21 13 28 49.6 51.04N 15.87E 5 **¶97xii4257**
ISC Possibly mining induced
NEIC Less reliable solution.
(536) Sweden
ISC XII 22 00 23 17±1.0 67.74N±.085 20.2E±.32 0 8 2-8
BER XII 22 00 23 21.0 67.9N 20.1E 0 1.8L **¶97xii4326**
BER Probable explosion
(724) Western Russia
ISC XII 22 11 04 53±3.1 59.6N±.20 27.7E±.36 0 8 2-10
BER XII 22 11 04 53.1 59.2N 28.0E 0 **¶97xii4411**
EIDC XII 22 11 04 54.8±7.53 59.5N 27.8E 0 3.2L
BER Probable explosion
EIDC Error ellipse is semi−major=67.4km semi−minor=25.5km azimuth=151
(721) Finland
ISC XII 22 12 21 49.8±.72 61.44N±.098 24.7E±.11 0 10 1-9
EIDC XII 22 12 21 24.7±4.06 59.4N 28.2E 0 3.0L **¶97xii4419**
BER XII 22 12 21 25.0 59.5N 28.5E 0
EIDC Error ellipse is semi−major=31.4km semi−minor=15.7km azimuth=150
BER Probable explosion
(535) Southern Norway
ISC XII 22 13 35 12±1.0 63.53N±.082 11.2E±.26 0 6 1-8
BER XII 22 13 35 15.1 63.6N 11.1E 0 2.0D **¶97xii4430**
BER Probable explosion
(536) Sweden
ISC XII 23 00 37 18.5±.59 67.77N±.059 20.3E±.18 0 12 2-8
EIDC XII 23 00 37 20.8±2.30 67.8N 20.5E 0 2.8L **¶97xii4509**
BER XII 23 00 37 22.2 68.0N 20.2E 0 2.8D,2.0L
EIDC Error ellipse is semi−major=22.5km semi−minor=17.4km azimuth=85
BER Probable explosion

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(548) Poland						
ISC	**XII 23 05 46 06.1**±.56	**51.62N**±.043	**16.18E**±.080	**0**		**17**	**1-19**
EIDC	XII 23 05 46 08.4±1.56	51.6N	16.0E	0	3.3L		**¶97xii4546**
NEIC	XII 23 05 46 09.3	51.49N	16.06E	5			
WAR	XII 23 05 46 10.3	51.5N	16.1E		2.6L		
EIDC	Error ellipse is semi−major=22.5km semi−minor=13.7km azimuth=99						
NEIC	M_L3.2(VIE), Poor solution.						
WAR	Mining induced						
	(536) Sweden						
BER	**XII 23 07 20 05.9**	**67.4N**	**21.1E**	**0**	**1.8D,2.0L**		**¶97xii4561**
BER	Probable explosion						
	(536) Sweden						
BER	**XII 23 08 12 15.4**	**67.5N**	**22.0E**	**0**	**1.4L**		**¶97xii4566**
BER	Probable explosion						
	(543) Germany						
BUG	**XII 23 08 42 19.2**	**51.6N**	**7.2E**	**1**	**1.1L**		**¶97xii4571**
BUG	Mining induced event						
	(548) Poland						
ISC	**XII 23 19 13 34**±1.2	**50.4N**±.14	**18.8E**±.10	**0**		**13**	**1-5**
WAR	XII 23 19 13 35.8	50.4N	18.8E		3.0L		**¶97xii4647**
NEIC	XII 23 19 13 36.4	50.25N	18.85E	5			
WAR	Mining induced						
NEIC	M_L3.3(VIE), M_L3.0(CLL), Less reliable solution.						
	(543) Germany						
BUG	**XII 23 19 19 58.5**	**51.6N**	**7.2E**	**1**	**0.8L**		**¶97xii4649**
BUG	Mining induced event						
	(460) Wyoming						
EIDC	**XII 23 21 09 17.0**±3.24	**43.4N**	**104.7W**	**0**	4.1L		**4-20 ¶97xii4656**
EIDC	Error ellipse is semi−major=46.6km semi−minor=27.0km azimuth=136						
NEIC	Possible mineblast						
	(536) Sweden						
BER	**XII 24 00 36 10.7**	**67.9N**	**20.2E**	**0**	**2.2D,1.7L**		**¶97xii4678**
BER	Probable explosion						
	(543) Germany						
ISC	**XII 24 18 42 10.0**±.67	**49.15N**±.038	**6.95E**±.087	**0**		**17**	**1-4**
SZGRF	XII 24 18 42 11.0	49.2N	6.8E	1	2.5L		**¶97xii4806**
NEIC	XII 24 18 42 11.1	49.16N	6.77E	10			
LEDBW	XII 24 18 42 11.7	49.14N	6.86E	1	2.3L		
SZGRF	mining induced						
NEIC	M_L2.3(UCC), Less reliable solution.						
NEIC	Mining induced event in the Lorraine region, France.						
LEDBW	Mining induced event						
	(536) Sweden						
BER	**XII 25 00 30 53.5**	**67.9N**	**20.0E**	**0**	**1.9L**		**¶97xii4844**
BER	Probable explosion						
	(724) Western Russia						
ISC	**XII 25 12 02 15**±1.2	**67.89N**±.088	**32.1E**±.25	**0**		**12**	**0-11**
EIDC	XII 25 12 02 14.6±4.26	67.9N	32.9E	0	3.1L		**¶97xii4924**
BER	XII 25 12 02 16.5	68.1N	32.9E	0	2.8D		
EIDC	Error ellipse is semi−major=46.6km semi−minor=23.4km azimuth=96						
BER	Probable explosion						
	(535) Southern Norway						
ISC	**XII 25 15 29 36**±1.6	**60.53N**±.062	**7.3E**±.27	**0**		**8**	**1-2**
BER	XII 25 15 29 39.0	60.5N	7.2E	0	2.0D,1.7L		**¶97xii4953**
BER	Probable explosion						
	(536) Sweden						
BER	**XII 26 00 24 15.3**	**67.9N**	**19.7E**	**0**	**2.3D,1.6L**		**¶97xii5013**
BER	Probable explosion						
	(536) Sweden						
BER	**XII 26 00 29 28.8**	**67.7N**	**20.3E**	**0**	**2.1D,1.7L**		**¶97xii5015**
BER	Probable explosion						
	(646) Northern Norway						
BER	**XII 26 14 21 43.1**	**66.4N**	**13.1E**	**0**	**2.8D**		**¶97xii5145**
BER	Probable explosion						
	(646) Northern Norway						
BER	**XII 26 15 21 56.1**	**66.4N**	**13.1E**	**0**	**2.7D**		**¶97xii5162**
BER	Probable explosion						
	(543) Germany						
BUG	**XII 26 16 55 01.9**	**51.7N**	**7.7E**	**1**	**1.2L**		**¶97xii5177**
BUG	Mining induced event						
	(536) Sweden						
ISC	**XII 27 00 28 51.3**±.97	**67.81N**±.090	**20.5E**±.27	**0**		**7**	**2-7**
BER	XII 27 00 28 55.5	67.9N	20.9E	0	1.6L		**¶97xii5213**
BER	Probable explosion						
	(724) Western Russia						
ISC	**XII 27 04 26 09**±3.9	**67.6N**±.16	**34.0E**±.75	**0**		**4**	**0-7**
BER	XII 27 04 26 13.4	67.7N	33.7E	0			**¶97xii5244**
ISC	Poorly determined						
BER	Probable explosion						
	(721) Finland						
ISC	**XII 27 13 41 42**±2.7	**62.5N**±.18	**29.4E**±.52	**0**		**9**	**2-9**
EIDC	XII 27 13 41 35.9±5.01	61.9N	31.0E	0	3.3L		**¶97xii5298**
BER	XII 27 13 41 36.0	61.7N	31.2E	0			
EIDC	Error ellipse is semi−major=58.4km semi−minor=23.8km azimuth=144						
BER	Probable explosion						
	(536) Sweden						
BER	**XII 27 23 40 01.2**	**67.8N**	**20.2E**	**0**	**1.7L**		**¶97xii5362**
BER	Probable explosion						
	(536) Sweden						
ISC	**XII 28 00 22 30**±2.1	**67.8N**±.20	**20.4E**±.48	**0**		**4**	**2-3**
BER	XII 28 00 22 33.9	68.0N	20.1E	0	1.5L		**¶97xii5365**
ISC	Poorly determined						
BER	Probable explosion						
	(536) Sweden						
ISC	**XII 28 12 03 15.6**±.58	**65.34N**±.046	**22.5E**±.16	**0**		**17**	**2-7**
EIDC	XII 28 12 03 16.5±1.64	65.3N	22.7E	0	2.9L		**¶97xii5449**
HEL	XII 28 12 03 18	65.38N	22.60E		2.4L		
BER	XII 28 12 03 18.4	65.3N	22.7E	0	2.2L		
EIDC	Error ellipse is semi−major=17.3km semi−minor=13.2km azimuth=114						
BER	Probable explosion						
	(536) Sweden						
BER	**XII 28 19 13 19.6**	**67.9N**	**20.0E**	**0**	**2.0D,1.5L**		**¶97xii5483**
BER	Probable explosion						
	(536) Sweden						
BER	**XII 29 00 29 49.4**	**67.8N**	**20.2E**	**0**	**1.4L**		**¶97xii5519**
BER	Probable explosion						
	(724) Western Russia						
ISC	**XII 29 12 50 32**±3.1	**61.0N**±.20	**29.1E**±.35	**0**		**8**	**2-9**
EIDC	XII 29 12 50 36.1±3.64	61.0N	29.0E	0	3.7L		**¶97xii5584**
BER	XII 29 12 50 37.4	61.0N	29.0E	0			
EIDC	Error ellipse is semi−major=28.5km semi−minor=17.4km azimuth=128						
BER	Probable explosion						
	(548) Poland						
ISC	**XII 29 20 24 36.0**±.85	**51.63N**±.056	**16.1E**±.11	**0**		**13**	**1-11**
NEIC	XII 29 20 24 36.7	51.63N	16.26E	5			**¶97xii5633**
EIDC	XII 29 20 24 38.3±2.10	51.6N	16.2E	0	2.7L		
ISC	Possibly mining induced (after WAR)						
NEIC	M_L2.5(VIE), Less reliable solution.						
EIDC	Error ellipse is semi−major=27.6km semi−minor=17.3km azimuth=101						
	(548) Poland						
ISC	**XII 29 20 36 30**±2.1	**51.6N**±.15	**16.1E**±.12	**0**		**9**	**1-4**
NEIC	XII 29 20 36 38.7	51.10N	15.76E	5			**¶97xii5637**
ISC	Possibly mining induced (after WAR)						
NEIC	MG2.5(WAR), Less reliable solution.						
	(721) Finland						
ISC	**XII 30 11 44 20**±2.4	**63.2N**±.13	**27.5E**±.56	**0**		**4**	**2-8**
BER	XII 30 11 44 21.3	63.1N	27.9E	0			**¶97xii5728**
ISC	Poorly determined						
BER	Probable explosion						
	(721) Finland						
ISC	**XII 30 12 15 15**±2.3	**60.5N**±.27	**23.7E**±.25	**0**		**8**	**1-9**
EIDC	XII 30 12 15 08.9±3.72	59.8N	24.5E	0	3.5L		**¶97xii5733**
BER	XII 30 12 15 12.7	59.8N	24.5E	0			
EIDC	Error ellipse is semi−major=33.0km semi−minor=14.8km azimuth=154						
BER	Probable explosion						
	(460) Wyoming						
EIDC	**XII 30 19 18 32.3**±2.86	**43.6N**	**105.0W**	**0**	**3.7L**		**3-20 ¶97xii5778**
EIDC	Error ellipse is semi−major=40.3km semi−minor=25.8km azimuth=129						
NEIC	Possible mineblast						
	(548) Poland						
ISC	**XII 30 20 11 20.8**±.64	**51.60N**±.050	**16.1E**±.10	**0**		**14**	**1-19**
NEIC	XII 30 20 11 21.7	51.63N	16.13E	5			**¶97xii5783**
EIDC	XII 30 20 11 22.5±1.99	51.5N	16.1E	0	3.2L		
WAR	XII 30 20 11 24.0	51.47N	16.07E		2.4L		
NEIC	M_L2.8(VIE).						
EIDC	Error ellipse is semi−major=37.0km semi−minor=15.7km azimuth=112						
WAR	Mining induced						
	(536) Sweden						
BER	**XII 31 00 16 29.9**	**67.8N**	**20.2E**	**0**	**1.7L**		**¶97xii5803**
BER	Probable explosion						
	(536) Sweden						
BER	**XII 31 00 29 18.4**	**67.6N**	**19.8E**	**0**			**¶97xii5807**
BER	Probable explosion						
	(536) Sweden						
BER	**XII 31 00 29 31.2**	**67.9N**	**20.0E**	**0**	**1.9L**		**¶97xii5808**
BER	Probable explosion						
	(536) Sweden						
ISC	**XII 31 03 02 27.0**±.75	**67.10N**±.074	**20.8E**±.25	**0**		**10**	**2-8**
EIDC	XII 31 03 02 28.5±1.90	67.1N	20.8E	0	2.7L		**¶97xii5827**
BER	XII 31 03 02 31.4	67.2N	21.3E	0	1.6L		
EIDC	Error ellipse is semi−major=31.6km semi−minor=13.1km azimuth=118						
BER	Probable explosion						
	(724) Western Russia						
ISC	**XII 31 03 32 27**±2.0	**67.60N**±.079	**34.6E**±.44	**0**		**11**	**1-12**
BER	XII 31 03 32 35.2	67.6N	33.8E	0	3.1D,2.6L		**¶97xii5830**
EIDC	XII 31 03 32 36.0±4.68	67.5N	33.0E	0	3.2L		
BER	Probable explosion						
EIDC	Error ellipse is semi−major=44.6km semi−minor=18.2km azimuth=81						
	(548) Poland						
ISC	**XII 31 11 51 05**±1.9	**51.6N**±.14	**16.2E**±.13	**0**		**9**	**1-3**
NEIC	XII 31 11 51 05.9	51.59N	16.30E	5			**¶97xii5891**
ISC	Possibly mining induced (after WAR)						
NEIC	M_L2.5(CLL), Less reliable solution.						
	(548) Poland						
EIDC	**XII 31 13 41 54.3**±4.01	**51.0N**	**18.6E**	**0**	**3.4L**		**2-11 ¶97xii5907**
EIDC	Possibly mining induced (after WAR)Error ellipse is semi−major=64.0km semi−minor=21.1km azimuth=127						
	(464) Minnesota						
ISC	**XII 31 17 09 17**±1.4	**47.2N**±.13	**92.4W**±.21	**0**		**6**	**1-20**
EIDC	XII 31 17 09 19.3±2.56	47.2N	92.4W	0	3.3L		**¶97xii5932**
EIDC	Error ellipse is semi−major=51.2km semi−minor=21.5km azimuth=64						
NEIC	Probable mine blast						
	(548) Poland						
ISC	**XII 31 18 42 27.7**±.67	**51.67N**±.049	**16.1E**±.10	**0**		**13**	**1-11**
NEIC	XII 31 18 42 28.8	51.66N	16.24E	5			**¶97xii5947**
EIDC	XII 31 18 42 29.2±2.17	51.6N	16.4E	0	3.1L		
ISC	Possibly mining induced (after WAR)						
EIDC	Error ellipse is semi−major=27.2km semi−minor=16.4km azimuth=104						
	(548) Poland						
ISC	**XII 31 23 20 37.7**±.78	**50.55N**±.067	**19.00E**±.098	**0**		**10**	**1-12**
NEIC	XII 31 23 20 37.9	50.56N	18.92E	5			**¶97xii6000**
EIDC	XII 31 23 20 39.6±2.88	50.5N	18.8E	0	2.9L		
WAR	XII 31 23 20 40.4	50.34N	18.97E		3.0L		
NEIC	MG3.0(WAR).						
EIDC	Error ellipse is semi−major=36.2km semi−minor=18.8km azimuth=123						
WAR	Mining induced						

REGIONAL CATALOGUE OF EVENTS

SEISMIC REGION 1. ALASKA-ALEUTIAN ARC.

(1) Central Alaska.

ISC VII 02 05 09 29.7±.93 63.05N±.039 150.8W±.17 134±15 29 1-5
NEIC VII 02 05 09 31.3 63.04N 150.73W 118 ¶97vii0183
NEIC After AEIC.
ISC VII 03 03 53 45.0±.86 63.41N±.032 151.31W±.099 20±9.0 39 0-17
NEIC VII 03 03 53 45.0 63.35N 151.32W 13 ¶97vii0353
NEIC M_L3.8(PMR), M_L3.5(AEIC). Felt, After AEIC.
NEIC Felt at Kantishna.
ISC VII 04 03 14 16.9±.66 62.87N±.042 149.79W±.097 92±14 34 1-5
NEIC VII 04 03 14 17.7 62.85N 149.80W 81 ¶97vii0488
NEIC After AEIC.
ISC VII 04 14 47 39±1.1 62.15N±.034 150.58W±.090 8±9.0 35 0-4
NEIC VII 04 14 47 39.0 62.12N 150.55W 2 ¶97vii0576
NEIC M_L2.5(AEIC), After AEIC.
ISC VII 04 18 24 37.7±.72 63.04N±.035 149.7W±.11 102±12 35 0-5
NEIC VII 04 18 24 38.4 63.01N 149.66W 94 ¶97vii0602
NEIC After AEIC.
ISC VII 05 19 22 40±1.3 63.45N±.046 151.3W±.14 12±10 18 0-3
NEIC VII 05 19 22 40.3 63.38N 151.31W 9 ¶97vii0773
NEIC M_L3.0(PMR), M_L2.6(AEIC), After AEIC.
ISC VII 07 13 15 49±1.1 63.09N±.051 150.9W±.17 138±17 21 0-5
NEIC VII 07 13 15 50.6 63.09N 150.79W 126 ¶97vii1048
NEIC After AEIC.
ISC VII 07 17 47 57.8±.95 63.41N±.042 151.4W±.12 22±9.7 3.4b 25 0-46
EIDC VII 07 17 47 50.7 63.6N 152.6W 0 3.4b,3.5L ¶97vii1071
NEIC VII 07 17 47 58.3 63.39N 151.31W 17
NEIC M_L3.8(PMR), M_L3.5(AEIC), After AEIC.
ISC VII 08 12 36 52.9±.99 63.56N±.038 150.1W±.15 137±13 39 0-4
NEIC VII 08 12 36 54.6 63.57N 150.01W 126 ¶97vii1186
NEIC After AEIC.
ISC VII 09 05 07 28±2.0 62.8N±.10 150.7W±.18 142±42 10 1-5
NEIC VII 09 05 07 31.4 62.81N 150.72W 93 ¶97vii1283
NEIC After AEIC.
ISC VII 09 10 51 45.5±.62 62.73N±.032 149.55W±.094 81±14 38 0-4
NEIC VII 09 10 51 45.5 62.74N 149.41W 78 ¶97vii1323
NEIC After AEIC.
ISC VII 10 00 59 53±1.1 62.88N±.046 150.5W±.16 105±17 21 0-4
NEIC VII 10 00 59 53.5 62.86N 150.63W 97 ¶97vii1422
NEIC After AEIC.
ISC VII 14 05 41 19.2±.99 63.17N±.044 150.7W±.12 144±14 41 0-5
NEIC VII 14 05 41 20.2 63.18N 150.78W 138 ¶97vii2074
NEIC After AEIC.
ISC VII 17 06 29 51.1±.58 62.70N±.048 152.3W±.11 6 19 1-3
NEIC VII 17 06 29 51.2 62.68N 152.30W 6 ¶97vii2556
NEIC M_L3.7(PMR), M_L3.0(AEIC), After AEIC.
ISC VII 17 07 17 41±1.0 63.29N±.037 151.2W±.12 15±13 26 0-6
NEIC VII 17 07 17 41.0 63.26N 151.14W 12 ¶97vii2567
NEIC M_L4.0(PMR), M_L3.7(AEIC), After AEIC.
ISC VII 17 14 27 28.0±.81 64.27N±.047 149.9W±.14 27±9.1 17 0-4
NEIC VII 17 14 27 27.8 64.25N 150.01W 30 ¶97vii2606
NEIC M_L2.5(AEIC), After AEIC.
ISC VII 18 01 22 25±1.4 63.23N±.039 151.3W±.13 2±11 25 0-3
NEIC VII 18 01 22 25.6 63.24N 151.32W 5 ¶97vii2673
NEIC M_L2.9(PMR), M_L2.6(AEIC), After AEIC.
ISC VII 19 13 12 07.1±.44 63.65N±.042 149.4W±.12 126±5.7 3.5b 36 0-55
NEIC VII 19 13 12 08.4 63.67N 149.28W 120 3.5b ¶97vii2879
EIDC VII 19 13 12 08.5 63.8N 149.5W 115 3.2b
NEIC After AEIC.
ISC VII 19 20 04 11±1.6 62.92N±.062 148.4W±.19 72±30 13 0-2
NEIC VII 19 20 04 12.2 62.90N 148.32W 57 ¶97vii2945
NEIC M_L2.8(AEIC), After AEIC.
ISC VII 21 02 46 22±1.3 63.30N±.050 151.1W±.14 10±11 16 0-3
NEIC VII 21 02 46 21.8 63.29N 151.19W 9 ¶97vii3179
NEIC M_L2.9(PMR), M_L2.6(AEIC), After AEIC.
ISC VII 23 00 38 15±1.1 63.16N±.058 150.9W±.17 146±16 18 0-5
NEIC VII 23 00 38 16.5 63.18N 150.88W 137 ¶97vii3460
NEIC After AEIC.
ISC VII 23 09 14 03.6±.23 63.23N±.023 150.79W±.064 139±3.0 4.0b 123 0-82
EIDC VII 23 09 14 04.6 63.4N 150.9W 131 3.8b ¶97vii3507
NEIC VII 23 09 14 04.9 63.19N 150.79W 134 4.0b
NEIC After AEIC.
ISC VII 23 13 06 41.9±.64 63.84N±.041 149.07W±.075 139±8.9 87 0-16
NEIC VII 23 13 06 44.1 63.84N 149.07W 120 3.3b ¶97vii3531
NEIC After AEIC.
ISC VII 23 14 17 38±1.2 63.28N±.045 151.1W±.13 11±9.9 19 0-3
NEIC VII 23 14 17 37.8 63.27N 151.07W 8 ¶97vii3541
NEIC M_L3.2(PMR), M_L2.9(AEIC), After AEIC.
ISC VII 24 22 49 22.1±.76 62.57N±.042 150.9W±.14 89±16 25 0-5
NEIC VII 24 22 49 23.4 62.55N 150.90W 76 ¶97vii3731
NEIC After AEIC.
ISC VII 24 23 28 53.0±.96 63.46N±.040 151.0W±.12 9±7.2 26 0-5
NEIC VII 24 23 28 53.6 63.47N 150.88W 8 ¶97vii3735
NEIC M_L3.9(PMR), M_L3.7(AEIC). Felt, After AEIC.
NEIC Felt at Kantishna.
ISC VII 26 03 21 48.0±.74 64.70N±.054 150.0W±.11 25±8.9 23 0-4
NEIC VII 26 03 21 48.2 64.66N 150.04W 20 ¶97vii3904
NEIC M_L3.1(PMR), M_L2.9(AEIC), After AEIC.
ISC VII 26 20 21 31.1±.94 62.51N±.066 151.1W±.13 76±21 16 0-5
NEIC VII 26 20 21 31.2 62.51N 150.97W 81 ¶97vii4006
NEIC After AEIC.
ISC VII 27 23 07 18.0±.98 63.39N±.037 151.4W±.12 18±11 29 0-5
NEIC VII 27 23 07 18.8 63.34N 151.25W 10 ¶97vii4175
NEIC M_L3.7(PMR), M_L3.2(AEIC), After AEIC.
ISC VII 30 01 20 36.1±.84 63.48N±.042 151.1W±.13 20±8.0 3.8b 28 0-74
EIDC VII 30 01 20 33.6 63.6N 151.4W 0 3.8b,3.6L ¶97vii4514
NEIC VII 30 01 20 36.6 63.47N 151.08W 15
NEIC M_L3.9(PMR), M_L3.7(AEIC). Felt, After AEIC.
NEIC Felt at Kantishna.
ISC VIII 01 17 29 18.8±.77 63.51N±.038 150.7W±.12 14±6.2 27 0-4
NEIC VIII 01 17 29 18.5 63.49N 150.83W 14 ¶97viii0094
NEIC M_L2.5(AEIC), After AEIC.
ISC VIII 02 05 03 16±1.4 63.51N±.044 151.4W±.14 8±11 22 0-6
NEIC VIII 02 05 03 16.9 63.51N 151.26W 10 ¶97viii0174
NEIC M_L3.6(PMR), M_L3.2(AEIC), After AEIC.
ISC VIII 02 10 18 28±1.4 63.12N±.068 150.9W±.19 135±20 16 0-5
NEIC VIII 02 10 18 28.7 63.10N 150.87W 131 ¶97viii0197
NEIC After AEIC.
ISC VIII 03 19 33 40.6±.83 62.46N±.046 142.6W±.16 20 31 1-4
NEIC VIII 03 19 33 40.6 62.44N 142.61W 20 ¶97viii0403
NEIC M_L2.8(AEIC), After AEIC.
ISC VIII 06 07 58 43.0±.65 62.20N±.043 150.4W±.11 15±10 18 0-3
NEIC VIII 06 07 58 43.2 62.16N 150.39W 9 ¶97viii0771
NEIC M_L2.8(PMR), M_L2.5(AEIC), After AEIC.
ISC VIII 06 16 19 55±1.3 63.29N±.049 151.1W±.13 9±11 21 0-5
NEIC VIII 06 16 19 55.5 63.28N 151.13W 11 ¶97viii0820
NEIC M_L3.4(PMR), M_L3.0(AEIC), After AEIC.
ISC VIII 07 02 08 15.3±.69 62.59N±.037 149.4W±.10 73±16 34 0-4
NEIC VIII 07 02 08 15.5 62.59N 149.41W 70 ¶97viii0872
NEIC M_L2.5(AEIC), After AEIC.
ISC VIII 07 07 58 34.2±.92 63.38N±.037 150.6W±.13 7±7.4 23 0-4
NEIC VIII 07 07 58 34.2 63.35N 150.57W 8 ¶97viii0907
NEIC M_L3.0(PMR), M_L2.5(AEIC), After AEIC.
ISC VIII 07 10 13 19±1.0 63.21N±.096 151.1W±.19 9 7 2-3
NEIC VIII 07 10 13 18.4 63.26N 151.09W 9 ¶97viii0925
NEIC M_L3.0(PMR), M_L2.3(AEIC), After AEIC.
ISC VIII 08 21 22 15.2±.49 62.98N±.052 151.0W±.14 118 19 1-5
NEIC VIII 08 21 22 16.1 63.01N 151.06W 118 ¶97viii1167
NEIC After AEIC.
ISC VIII 11 11 49 32±1.9 63.57N±.067 147.7W±.14 99±27 18 1-3
NEIC VIII 11 11 49 34.3 63.59N 147.78W 72 ¶97viii1554
NEIC After AEIC.
ISC VIII 11 23 59 11.7±.46 63.17N±.037 150.4W±.12 115 37 0-4
NEIC VIII 11 23 59 12.7 63.20N 150.34W 115 ¶97viii1649
NEIC After AEIC.
ISC VIII 13 06 46 09.2±.47 62.14N±.029 152.59W±.090 0 42 1-4
NEIC VIII 13 06 46 09.6 62.10N 152.55W 0 ¶97viii1864
NEIC M_L3.7(PMR), M_L3.2(AEIC), After AEIC.
ISC VIII 14 12 50 32±1.0 63.33N±.094 151.0W±.19 33 8 2-3
NEIC VIII 14 12 50 31.3 63.33N 150.97W 33 ¶97viii2063
NEIC $M_{L2.6}$(PMR).
ISC VIII 16 05 12 51.6±.19 62.47N±.021 150.91W±.050 102±2.8 4.1b 160 0-146
BJI VIII 16 05 12 50.7 62.55N 150.90W 108 4.4b ¶97viii2319
EIDC VIII 16 05 12 53.3 62.6N 151.0W 92 4.0b,3.2s
NEIC VIII 16 05 12 53.6 62.44N 150.97W 89 4.2b
NEIC Felt I=III MM, After AEIC.
NEIC Felt I=III MM at Willow, II at Anchorage (after PMR)
ISC VIII 16 11 42 19±1.0 63.35N±.094 151.0W±.18 12 8 2-3
NEIC VIII 16 11 42 16.3 63.44N 151.25W 12 ¶97viii2362
NEIC M_L2.8(PMR), M_L2.3(AEIC), After AEIC.
ISC VIII 17 08 19 08±1.1 63.11N±.048 150.8W±.15 130±16 26 0-3
NEIC VIII 17 08 19 10.2 63.11N 150.70W 114 ¶97viii2512
NEIC After AEIC.
ISC VIII 18 13 57 03±1.3 63.13N±.062 150.8W±.14 141±16 41 0-5
NEIC VIII 18 13 57 03.2 63.16N 150.86W 139 ¶97viii2686
NEIC After AEIC.
ISC VIII 19 01 06 59.3±.52 62.10N±.047 149.26W±.090 46±18 26 0-4
NEIC VIII 19 01 07 00.0 62.10N 149.22W 43 ¶97viii2741
NEIC M_L3.0(PMR), M_L2.6(AEIC), After AEIC.
ISC VIII 20 12 05 37±1.0 63.21N±.092 150.9W±.20 6 8 2-3
NEIC VIII 20 12 05 35.9 63.26N 151.03W 6 ¶97viii2956
NEIC M_L2.6(PMR), M_L2.3(AEIC), After AEIC.
ISC VIII 23 02 03 59.4±.80 63.30N±.030 150.95W±.085 16±9.6 55 0-4
NEIC VIII 23 02 03 59.0 63.25N 150.98W 8 ¶97viii3323
NEIC M_L3.1(PMR), M_L2.7(AEIC), After AEIC.
ISC VIII 23 09 22 41±1.0 63.3N±.11 151.3W±.26 12 6 2-3
NEIC VIII 23 09 22 38.1 63.51N 151.21W 12 ¶97viii3377
NEIC M_L2.5(PMR), M_L2.2(AEIC), After AEIC.
ISC VIII 24 14 54 58.5±.87 63.28N±.050 150.9W±.16 19±12 16 0-3
NEIC VIII 24 14 54 58.1 63.25N 150.98W 9 ¶97viii3551
NEIC M_L2.6(PMR), M_L2.5(AEIC), After AEIC.
ISC VIII 25 13 13 52.7±.84 63.38N±.045 151.53W±.096 179±9.7 89 0-7
NEIC VIII 25 13 13 53.9 63.37N 151.55W 172 ¶97viii3693
NEIC After AEIC.
ISC VIII 27 14 30 13±1.1 63.45N±.041 151.4W±.13 15±12 25 0-6
NEIC VIII 27 14 30 12.6 63.40N 151.35W 9 ¶97viii4000
NEIC M_L3.8(PMR), M_L3.5(AEIC), After AEIC.
ISC VIII 30 17 26 06.4±.35 63.07N±.031 150.88W±.088 135±4.8 3.7b 61 0-56
EIDC VIII 30 17 26 05.8 63.1N 151.2W 114 3.5b ¶97viii4518
NEIC VIII 30 17 26 07.9 63.05N 150.91W 126 3.9b
NEIC After AEIC.
ISC VIII 31 00 56 42.7±.68 63.49N±.045 151.1W±.14 9 20 0-5
NEIC VIII 31 00 56 43.3 63.44N 151.14W 9 ¶97viii4561
NEIC M_L3.3(PMR), M_L3.0(AEIC). Felt, After AEIC.
NEIC Felt at the Wonder Lake Ranger Station near Kantishna.
ISC IX 02 20 16 35.4±.78 63.11N±.041 150.4W±.11 128±11 46 0-6
NEIC IX 02 20 16 37.2 63.11N 150.47W 109 ¶97ix0320
NEIC After AEIC.
ISC IX 03 04 44 11.4±.89 63.43N±.093 151.9W±.17 8 9 2-5
NEIC IX 03 04 44 16.8 63.27N 151.11W 8 ¶97ix0380
NEIC M_L2.9(PMR), M_L2.4(AEIC), After AEIC.
ISC IX 05 07 47 13.4±.49 63.32N±.030 146.99W±.075 74±12 65 0-4
NEIC IX 05 07 47 14.1 63.26N 147.12W 64 ¶97ix0711
NEIC M_L2.7(AEIC), M_L3.0(PMR), After AEIC.
ISC IX 10 13 19 58.8±.46 62.60N±.032 151.30W±.098 99±7.5 3.3b 46 1-45
EIDC IX 10 13 19 56.4 62.7N 151.9W 79 3.2b ¶97ix1527
NEIC IX 10 13 19 59.8 62.60N 151.33W 92
NEIC After AEIC.
ISC IX 11 09 55 26.0±.50 63.99N±.034 150.8W±.10 9 36 0-4
NEIC IX 11 09 55 25.9 63.95N 150.69W 9 ¶97ix1662
NEIC M_L2.5(AEIC), After AEIC.
ISC IX 11 13 53 17.3±.40 62.21N±.025 151.31W±.060 103±8.3 101 1-6
NEIC IX 11 13 53 19.2 62.18N 151.35W 87 ¶97ix1685
NEIC After AEIC.
ISC IX 13 03 39 10.3±.35 62.98N±.034 149.09W±.085 93±6.0 3.4b 46 0-74
EIDC IX 13 03 39 10.3 63.1N 149.4W 78 3.2b,3.4s ¶97ix1909
NEIC IX 13 03 39 11.2 62.96N 149.07W 86

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	After AEIC.						
ISC	**IX 17 04 23 17**±1.4	**63.87N**±.071	**147.6W**±.44	**10**		**8**	**1-4**
NEIC	IX 17 04 23 17.1	63.90N	147.77W	10			**¶97ix2465**
NEIC	M_L2.7(PMR), Less reliable solution.						
ISC	**IX 17 21 00 15**±1.0	**63.01N**±.086	**149.4W**±.24	**33**		**6**	**1-3**
NEIC	IX 17 21 00 14.7	63.01N	149.45W	33			**¶97ix2555**
NEIC	$M_{L3.0}$(PMR).						
ISC	**IX 18 08 30 10.4**±.50	**62.87N**±.035	**152.1W**±.10	**10**		**42**	**1-3**
NEIC	IX 18 08 30 10.1	62.85N	152.12W	10			**¶97ix2632**
NEIC	M_L2.5(AEIC), After AEIC.						
ISC	**IX 21 02 21 23**±1.3	**64.14N**±.045	**146.8W**±.13	**13**±12		**16**	**0-3**
NEIC	IX 21 02 21 23.2	64.15N	146.81W	13			**¶97ix3032**
NEIC	M_L2.5(AEIC), After AEIC.						
ISC	**IX 21 11 52 43.8**±.66	**63.32N**±.052	**151.3W**±.13	**22**		**18**	**0-3**
NEIC	IX 21 11 52 45.1	63.26N	151.07W	22			**¶97ix3094**
NEIC	M_L2.5(AEIC), After AEIC.						
ISC	**IX 21 20 45 33**±1.4	**62.49N**±.072	**151.5W**±.16	**104**±20		**16**	**1-5**
NEIC	IX 21 20 45 34.8	62.49N	151.46W	91			**¶97ix3158**
NEIC	After AEIC.						
ISC	**IX 21 23 03 39**±1.2	**63.10N**±.070	**150.4W**±.14	**118**±16		**19**	**0-4**
NEIC	IX 21 23 03 40.1	63.10N	150.33W	104			**¶97ix3178**
NEIC	After AEIC.						
ISC	**IX 22 08 24 56.2**±.37	**63.35N**±.030	**144.17W**±.072	**5**		**50**	**0-8**
NEIC	IX 22 08 24 55.9	63.32N	144.23W	0			**¶97ix3245**
PGC	IX 22 08 24 56.6	63.3N	144.2W	5	3.1L		
NEIC	M_L2.8(AEIC), After AEIC.						
PGC	Eastern Alaska.						
ISC	**IX 22 19 52 50.8**±.42	**62.27N**±.027	**149.31W**±.067	**51**±17		**52**	**0-4**
NEIC	IX 22 19 52 51.4	62.24N	149.33W	52			**¶97ix3322**
NEIC	M_L3.1(PMR), M_L2.9(AEIC), After AEIC.						
ISC	**IX 24 04 45 56.0**±.37	**63.36N**±.030	**144.24W**±.077	**0**		**39**	**0-7**
NEIC	IX 24 04 45 56.3	63.30N	144.18W	0			**¶97ix3525**
PGC	IX 24 04 45 57.0	63.3N	144.2W	0	3.1L		
NEIC	M_L2.8(AEIC), After AEIC.						
PGC	Eastern Alaska.Unlocated events at 04:01, 04:55 and 05:09.						
ISC	**IX 24 05 55 33.1**±.36	**63.41N**±.027	**144.17W**±.072	**10**		**60**	**0-8**
NEIC	IX 24 05 55 32.7	63.32N	144.23W	0			**¶97ix3532**
PGC	IX 24 05 55 33.3	63.3N	144.2W	10	3.4L		
NEIC	M_L3.3(AEIC), After AEIC.						
PGC	Eastern Alaska.						
ISC	**IX 24 06 52 09.9**±.63	**63.32N**±.043	**144.2W**±.12	**0**		**18**	**0-3**
NEIC	IX 24 06 52 09.9	63.31N	144.19W	0			**¶97ix3539**
NEIC	M_L2.5(AEIC), After AEIC.						
ISC	**IX 24 08 14 00.6**±.53	**63.38N**±.036	**144.2W**±.10	**1**		**31**	**0-3**
NEIC	IX 24 08 14 00.6	63.32N	144.23W	1			**¶97ix3546**
NEIC	M_L3.3(PMR), M_L2.7(AEIC), After AEIC.						
ISC	**IX 25 08 14 26**±1.5	**63.27N**±.047	**151.3W**±.14	**6**±13		**17**	**0-3**
NEIC	IX 25 08 14 26.8	63.28N	151.33W	6			**¶97ix3705**
NEIC	M_L3.0(PMR), M_L2.7(AEIC), After AEIC.						
ISC	**IX 26 04 24 13.1**±.77	**63.05N**±.075	**151.7W**±.16	**10**		**9**	**2-3**
NEIC	IX 26 04 24 13.4	63.05N	151.55W	10			**¶97ix3876**
NEIC	M_L2.8(PMR), M_L2.3(AEIC), After AEIC.						
ISC	**IX 26 15 23 10.1**±.35	**63.39N**±.025	**145.31W**±.073	**6**		**59**	**0-5**
NEIC	IX 26 15 23 10.1	63.34N	145.34W	6			**¶97ix4056**
NEIC	M_L3.4(PMR), M_L3.2(AEIC). Felt, After AEIC.						
NEIC	Felt in the epicentral area.						
ISC	**IX 27 04 00 06.8**±.81	**63.51N**±.049	**150.8W**±.13	**10**±6.8		**16**	**0-5**
NEIC	IX 27 04 00 06.8	63.49N	150.83W	10			**¶97ix4243**
NEIC	M_L2.9(PMR), M_L2.5(AEIC), After AEIC.						
ISC	**IX 27 15 10 25.7**±.57	**62.91N**±.059	**151.3W**±.16	**115**		**16**	**1-5**
NEIC	IX 27 15 10 26.4	62.92N	151.26W	115			**¶97ix4385**
NEIC	After AEIC.						
ISC	**X 05 08 43 40.1**±.92	**63.16N**±.041	**150.4W**±.12	**124**±13		**46**	**0-4**
NEIC	X 05 08 43 40.9	63.14N	150.48W	116			**¶97x0835**
NEIC	After AEIC.						
ISC	**X 06 11 52 22**±1.6	**63.69N**±.036	**151.8W**±.11	**13**±12		**49**	**0-5**
NEIC	X 06 11 52 23.3	63.57N	151.67W	12			**¶97x1038**
NEIC	M_L3.5(PMR), M_L3.2(AEIC), After AEIC.						
ISC	**X 07 10 36 54.8**±.46	**62.21N**±.026	**153.40W**±.086	**10**		**70**	**1-5**
NEIC	X 07 10 36 55.7	62.17N	153.30W	10			**¶97x1229**
NEIC	M_L3.6(PMR), M_L3.0(AEIC), After AEIC.						
ISC	**X 07 12 12 41.2**±.88	**62.31N**±.024	**150.12W**±.057	**14**±7.4		**66**	**0-4**
NEIC	X 07 12 12 41.3	62.27N	150.01W	10			**¶97x1246**
NEIC	M_L3.3(PMR), M_L2.9(AEIC), After AEIC.						
ISC	**X 08 23 57 30**±1.1	**63.28N**±.030	**151.10W**±.094	**5**±8.7		**45**	**0-4**
NEIC	X 08 23 57 30.1	63.26N	151.07W	6			**¶97x1493**
NEIC	M_L2.6(AEIC), After AEIC.						
ISC	**X 09 04 15 09.5**±.54	**62.91N**±.030	**149.82W**±.082	**90**±11		**53**	**0-4**
NEIC	X 09 04 15 10.0	62.89N	149.84W	82			**¶97x1524**
NEIC	After AEIC.						
ISC	**X 10 12 06 05.7**±.59	**62.98N**±.047	**151.0W**±.13	**127**		**30**	**1-17**
NEIC	X 10 12 06 06.5	63.00N	151.00W	127	3.4b		**¶97x1747**
NEIC	After AEIC.						
ISC	**X 11 10 26 07**±1.9	**63.22N**±.038	**151.1W**±.11	**5**±15		**33**	**1-6**
NEIC	X 11 10 26 09.0	63.23N	150.92W	16			**¶97x1880**
NEIC	M_L3.4(PMR), M_L3.0(AEIC), After AEIC.						
ISC	**X 13 10 12 27.5**±.42	**63.28N**±.031	**151.15W**±.075	**0**		**69**	**1-5**
NEIC	X 13 10 12 28.3	63.27N	151.10W	0			**¶97x2200**
NEIC	M_L3.4(PMR), M_L2.9(AEIC), After AEIC.						
ISC	**X 15 05 17 17**±2.0	**63.03N**±.065	**150.9W**±.30	**134**±19		**24**	**1-5**
NEIC	X 15 05 17 17.4	63.06N	151.02W	128			**¶97x2571**
NEIC	After AEIC.						
ISC	**X 15 17 07 11.1**±.69	**63.64N**±.038	**149.53W**±.084	**132**±11		**72**	**0-4**
NEIC	X 15 17 07 12.1	63.63N	149.62W	122			**¶97x2680**
NEIC	After AEIC.						
ISC	**X 16 21 12 27.9**±.49	**63.55N**±.034	**150.9W**±.10	**13**		**40**	**1-5**
NEIC	X 16 21 12 27.6	63.53N	150.76W	13			**¶97x2880**
NEIC	M_L3.1(PMR), M_L2.8(AEIC), After AEIC.						
ISC	**X 17 00 28 01.7**±.42	**63.05N**±.030	**150.53W**±.079	**127**±6.4	**3.3b**	**74**	**0-45**
EIDC	X 17 00 27 56.5	62.5N	149.5W	0	3.5b,3.7L		**¶97x2906**
NEIC	X 17 00 28 02.5	63.06N	150.63W	123			
NEIC	After AEIC.						
ISC	**X 17 10 32 13.0**±.57	**62.80N**±.034	**149.21W**±.091	**70**±14		**40**	**0-4**
NEIC	X 17 10 32 12.9	62.81N	149.28W	71			**¶97x2963**
NEIC	After AEIC.						
ISC	**X 20 08 20 04.7**±.48	**63.05N**±.030	**148.76W**±.075	**69**±14		**58**	**0-4**
NEIC	X 20 08 20 04.4	63.03N	148.83W	74			**¶97x3467**
NEIC	After AEIC.						
ISC	**X 20 20 16 09.2**±.69	**63.39N**±.036	**149.71W**±.094	**129**±12		**58**	**0-6**
NEIC	X 20 20 16 10.3	63.37N	149.78W	117			**¶97x3554**
NEIC	After AEIC.						
ISC	**X 21 05 33 35.6**±.47	**63.19N**±.029	**149.32W**±.069	**100**±9.4		**73**	**0-5**
NEIC	X 21 05 33 36.3	63.17N	149.37W	88			**¶97x3614**
NEIC	After AEIC.						
ISC	**X 21 22 47 21.0**±.25	**62.13N**±.023	**148.96W**±.049	**15**		**69**	**0-5**
NEIC	X 21 22 47 21.1	62.09N	149.00W	15			**¶97x3711**
NEIC	M_L2.9(PMR), M_L2.7(AEIC), After AEIC.						
ISC	**X 22 02 09 22.9**±.89	**63.27N**±.042	**150.5W**±.11	**141**±14		**48**	**0-5**
NEIC	X 22 02 09 24.1	63.26N	150.57W	129			**¶97x3735**
NEIC	After AEIC.						
ISC	**X 22 08 36 42**±1.1	**62.96N**±.052	**151.3W**±.13	**144**±15		**38**	**1-6**
NEIC	X 22 08 36 43.5	62.98N	151.37W	123			**¶97x3778**
NEIC	After AEIC.						
ISC	**X 22 18 07 48.4**±.32	**62.28N**±.026	**151.14W**±.062	**92**±6.5	**3.3b**	**85**	**0-45**
NEIC	X 22 18 07 50.1	62.26N	151.21W	79			**¶97x3863**
EIDC	X 22 18 07 56.2	63.0N	150.6W	138	3.0b		
NEIC	After AEIC.						
ISC	**X 23 23 09 07.2**±.41	**63.32N**±.030	**151.38W**±.077	**6**		**66**	**1-5**
NEIC	X 23 23 09 08.3	63.30N	151.35W	7			**¶97x4080**
NEIC	M_L3.5(PMR), M_L3.2(AEIC), After AEIC.						
ISC	**X 27 12 57 14.0**±.48	**63.54N**±.032	**151.03W**±.084	**67**±13		**73**	**0-6**
NEIC	X 27 12 57 14.0	63.46N	150.78W	70			**¶97x4611**
NEIC	M_L3.6(PMR), M_L3.3(AEIC), After AEIC.						
ISC	**X 28 18 56 18.9**±.37	**62.63N**±.026	**148.63W**±.062	**59**±13		**61**	**1-5**
NEIC	X 28 18 56 19.3	62.60N	148.67W	48			**¶97x4800**
NEIC	M_L3.0(PMR), M_L2.9(AEIC), After AEIC.						
ISC	**X 29 06 45 05**±1.1	**63.63N**±.027	**149.90W**±.077	**4**±8.5		**61**	**1-5**
NEIC	X 29 06 45 05.4	63.59N	149.83W	10			**¶97x4869**
NEIC	M_L3.1(PMR), M_L2.6(AEIC), After AEIC.						
ISC	**X 29 09 41 25.9**±.68	**63.37N**±.037	**149.78W**±.086	**127**±12		**63**	**0-4**
NEIC	X 29 09 41 27.8	63.36N	149.77W	103			**¶97x4889**
NEIC	After AEIC.						
ISC	**X 31 19 53 13.7**±.52	**62.28N**±.038	**148.39W**±.091	**44**±35		**29**	**1-3**
NEIC	X 31 19 53 14.2	62.28N	148.41W	46			**¶97x5222**
NEIC	M_L2.6(AEIC), After AEIC.						
ISC	**XI 01 05 44 10.5**±.76	**62.01N**±.056	**148.5W**±.12	**25**±9.7		**16**	**0-4**
NEIC	XI 01 05 44 11.4	61.96N	148.46W	31			**¶97xi0034**
NEIC	M_L2.5(AEIC), After AEIC.						
ISC	**XI 01 17 26 29.8**±.80	**63.37N**±.074	**150.7W**±.18	**33**		**8**	**2-3**
NEIC	XI 01 17 26 29.7	63.38N	150.73W	33			**¶97xi0109**
NEIC	$M_{L2.9}$(PMR).						
ISC	**XI 01 19 30 55.4**±.47	**63.30N**±.034	**151.52W**±.088	**11**		**46**	**1-5**
NEIC	XI 01 19 30 56.0	63.25N	151.33W	11			**¶97xi0131**
NEIC	M_L3.8(PMR), M_L3.5(AEIC), After AEIC.						
ISC	**XI 02 00 57 31**±1.9	**63.26N**±.032	**151.0W**±.10	**4**±14		**39**	**1-5**
NEIC	XI 02 00 57 31.4	63.22N	151.07W	11			**¶97xi0171**
NEIC	M_L2.9(PMR), M_L2.5(AEIC), After AEIC.						
ISC	**XI 02 10 53 02.9**±.58	**62.91N**±.030	**150.63W**±.076	**126**±10		**80**	**0-5**
NEIC	XI 02 10 53 03.8	62.91N	150.71W	114			**¶97xi0241**
NEIC	After AEIC.						
ISC	**XI 02 19 01 38.2**±.87	**63.23N**±.037	**150.4W**±.10	**135**±15		**52**	**0-4**
NEIC	XI 02 19 01 39.4	63.23N	150.52W	121			**¶97xi0319**
NEIC	After AEIC.						
ISC	**XI 04 10 28 10.5**±.58	**63.24N**±.033	**150.40W**±.073	**145**±10		**88**	**0-6**
NEIC	XI 04 10 28 10.5	63.21N	150.37W	148			**¶97xi0616**
NEIC	After AEIC.						
ISC	**XI 04 15 27 32.0**±.70	**64.94N**±.047	**149.27W**±.088	**23**±7.2		**50**	**0-5**
NEIC	XI 04 15 27 32.3	64.91N	149.22W	21			**¶97xi0660**
NEIC	M_L3.4(PMR), M_L3.1(AEIC), After AEIC.						
ISC	**XI 05 01 42 37.5**±.21	**64.81N**±.020	**155.22W**±.067	**10**	**4.7b,3.9s**	**180**	**1-147**
BJI	XI 05 01 42 34.9	64.80N	155.10W	10	4.6b		**¶97xi0717**
NEIC	XI 05 01 42 37.9	64.82N	155.11W	10	4.9b		
EIDC	XI 05 01 42 39.3	65.1N	155.0W	0	4.4b,3.8s		
NEIC	M_L4.9(AEIC), After AEIC.						
NEIC	Felt strongly at Ruby. Also felt by people in high-rise buildings at Fairbanks.						
ISC	**XI 05 09 23 33.5**±.78	**62.28N**±.043	**151.2W**±.11	**100**±13		**36**	**0-4**
NEIC	XI 05 09 23 35.3	62.25N	151.27W	85			**¶97xi0761**
NEIC	After AEIC.						
ISC	**XI 07 18 52 25**±1.8	**63.18N**±.064	**150.5W**±.19	**137**±32		**14**	**1-4**
NEIC	XI 07 18 52 26.6	63.19N	150.45W	131			**¶97xi1157**
NEIC	After AEIC.						
ISC	**XI 07 20 06 48**±1.0	**62.52N**±.065	**151.2W**±.12	**105**±18		**19**	**0-4**
NEIC	XI 07 20 06 50.5	62.51N	151.22W	86			**¶97xi1165**
NEIC	After AEIC.						
ISC	**XI 09 01 55 57.9**±.69	**63.84N**±.039	**149.09W**±.089	**132**±10		**63**	**0-5**
NEIC	XI 09 01 55 59.0	63.84N	149.11W	123			**¶97xi1380**
NEIC	After AEIC.						
ISC	**XI 10 15 32 04.8**±.33	**62.55N**±.024	**149.01W**±.058	**54**±16		**72**	**1-5**
NEIC	XI 10 15 32 04.9	62.52N	148.98W	49			**¶97xi1628**
NEIC	M_L3.1(PMR), M_L2.8(AEIC), After AEIC.						
ISC	**XI 11 03 06 22.2**±.28	**63.06N**±.027	**150.68W**±.069	**123**±4.1	**4.0b**	**92**	**0-56**
EIDC	XI 11 03 06 20.8	63.1N	151.1W	100	3.8b		**¶97xi1717**
NEIC	XI 11 03 06 23.0	63.06N	150.72W	123	4.0b		
NEIC	After AEIC.						
ISC	**XI 11 17 09 15.5**±.39	**62.14N**±.032	**149.72W**±.064	**59**±12		**48**	**0-4**
NEIC	XI 11 17 09 16.8	62.13N	149.72W	45			**¶97xi1830**
NEIC	M_L3.0(PMR), M_L2.7(AEIC), After AEIC.						
ISC	**XI 11 21 16 36.5**±.49	**64.88N**±.040	**142.72W**±.075	**22**		**71**	**1-13**
PGC	XI 11 21 16 36.7	64.8N	143.0W	0	4.1L		**¶97xi1875**
NEIC	XI 11 21 16 39.5	64.70N	143.10W	22			
PGC	Eastern Alaska.						
NEIC	M_L4.2(PMR), M_L4.0(AEIC), After AEIC.						
ISC	**XI 12 11 28 05**±1.7	**62.96N**±.060	**150.5W**±.21	**117**±21		**17**	**0-4**
NEIC	XI 12 11 28 06.6	62.96N	150.39W	98			**¶97xi1975**
NEIC	After AEIC.						
ISC	**XI 13 07 12 15.3**±.53	**63.22N**±.033	**148.09W**±.084	**94**±11		**45**	**0-5**
NEIC	XI 13 07 12 16.2	63.21N	148.16W	79			**¶97xi2092**
NEIC	After AEIC.						
ISC	**XI 13 14 02 13.8**±.46	**63.32N**±.033	**151.5W**±.10	**26**		**45**	**1-5**
NEIC	XI 13 14 02 13.4	63.28N	151.67W	26			**¶97xi2145**
NEIC	M_L3.1(PMR), M_L2.8(AEIC), After AEIC.						
ISC	**XI 14 04 38 24.2**±.73	**62.05N**±.025	**150.62W**±.050	**10**±6.2		**74**	**0-4**
NEIC	XI 14 04 38 24.6	62.03N	150.62W	10			**¶97xi2239**
NEIC	M_L2.8(PMR), M_L2.6(AEIC), After AEIC.						
ISC	**XI 14 22 02 43.3**±.94	**62.13N**±.024	**148.66W**±.052	**12**±7.8		**65**	**0-5**
NEIC	XI 14 22 02 44.4	62.09N	148.68W	16			**¶97xi2353**
NEIC	M_L2.9(PMR), M_L2.7(AEIC), After AEIC.						
ISC	**XI 15 01 15 23.6**±.63	**62.55N**±.039	**151.2W**±.11	**90**±14		**38**	**0-4**
NEIC	XI 15 01 15 24.1	62.50N	151.15W	91			**¶97xi2396**
NEIC	After AEIC.						

ISC XI 16 09 05 44.7±.30 **62.90N**±.027 **150.71W**±.065 **110** **91 0-6**
NEIC XI 16 09 05 45.6 62.93N 150.78W 110 **¶97xi2624**
NEIC After AEIC.
ISC XI 17 05 55 04.3±.49 **63.34N**±.036 **151.37W**±.096 **13** **36 1-5**
NEIC XI 17 05 55 04.7 63.25N 151.25W 13 **¶97xi2747**
NEIC M_L2.8(PMR), M_L2.5(AEIC), After AEIC.
ISC XI 17 23 55 38.4±.43 **62.40N**±.029 **149.23W**±.068 **53**±16 **55 0-4**
NEIC XI 17 23 55 38.9 62.38N 149.26W 51 **¶97xi2879**
NEIC M_L2.8(AEIC), After AEIC.
ISC XI 19 12 09 31.9±.83 **63.06N**±.038 **150.8W**±.10 **138**±13 **60 1-5**
NEIC XI 19 12 09 32.8 63.05N 150.84W 129 **¶97xi3214**
NEIC After AEIC.
ISC XI 20 23 55 25.0±.52 **62.49N**±.030 **151.10W**±.074 **93**±11 **71 0-4**
NEIC XI 20 23 55 26.2 62.48N 151.13W 84 **¶97xi3553**
NEIC After AEIC.
ISC XI 22 15 06 04.1±.63 **62.57N**±.034 **151.21W**±.085 **97**±13 **51 0-4**
NEIC XI 22 15 06 05.2 62.57N 151.26W 84 **¶97xi3900**
NEIC After AEIC.
ISC XI 23 20 28 24.2±.84 **63.06N**±.041 **149.5W**±.14 **88**±13 **31 0-4**
NEIC XI 23 20 28 25.0 63.04N 149.53W 80 **¶97xi4190**
NEIC After AEIC.
ISC XI 25 10 17 36.7±.45 **62.49N**±.034 **151.60W**±.091 **101**±8.5 3.2b **49 1-45**
EIDC XI 25 10 17 26.2 62.1N 152.4W 0 3.4b,4.0L **¶97xi4488**
NEIC XI 25 10 17 38.3 62.46N 151.58W 98
NEIC After AEIC.
ISC XI 25 11 32 55±1.8 **63.24N**±.036 **151.4W**±.11 **15**±20 **38 1-5**
NEIC XI 25 11 32 53.1 63.21N 151.57W 8 **¶97xi4496**
NEIC M_L3.1(PMR), M_L2.7(AEIC), After AEIC.
ISC XI 27 16 30 24.6±.51 **63.35N**±.037 **145.3W**±.10 **2** **21 0-3**
NEIC XI 27 16 30 24.8 63.33N 145.29W 2 **¶97xi4900**
NEIC M_L2.9(AEIC), After AEIC.
ISC XI 27 18 13 16±1.4 **63.20N**±.062 **150.8W**±.17 **142**±20 **20 1-5**
NEIC XI 27 18 13 17.6 63.17N 150.70W 128 **¶97xi4914**
NEIC After AEIC.
ISC XI 28 11 08 56.9±.71 **63.62N**±.039 **147.43W**±.093 **84**±13 **44 1-4**
NEIC XI 28 11 08 56.4 63.59N 147.51W 92 **¶97xi5069**
NEIC After AEIC.
ISC XI 28 21 49 32±1.0 **63.12N**±.090 **150.8W**±.20 **33** **9 2-4**
NEIC XI 28 21 49 31.7 63.11N 150.86W 33 **¶97xi5147**
NEIC M_L2.7(PMR), Less reliable solution.
ISC XI 29 02 55 29±1.9 **63.27N**±.036 **151.0W**±.12 **5**±15 **31 1-5**
NEIC XI 29 02 55 29.1 63.28N 151.07W 8 **¶97xi5181**
NEIC M_L2.8(PMR), M_L2.5(AEIC), After AEIC.
ISC XI 29 13 57 02.2±.51 **62.01N**±.053 **151.0W**±.11 **68** **23 1-4**
NEIC XI 29 13 57 03.4 61.90N 151.01W 68 **¶97xi5277**
NEIC M_L2.6(AEIC), After AEIC.
ISC XI 29 16 25 25.0±.32 **62.96N**±.026 **149.77W**±.064 **111**±6.4 3.8b **90 0-145**
EIDC XI 29 16 25 24.3 63.1N 150.2W 78 4.2L,3.6b **¶97xi5290**
NEIC XI 29 16 25 26.5 62.97N 149.84W 90
NEIC After AEIC.
ISC XI 29 23 11 10.5±.54 **62.53N**±.032 **149.38W**±.095 **74**±13 **36 0-4**
NEIC XI 29 23 11 11.2 62.52N 149.30W 62 **¶97xi5340**
NEIC M_L3.2(AEIC), M_L3.2(PMR), After AEIC.
ISC XI 30 05 31 01.5±.79 **63.19N**±.073 **151.0W**±.18 **33** **9 2-3**
NEIC XI 30 05 31 00.9 63.17N 151.01W 33 **¶97xi5368**
NEIC $M_{L2.8}$(PMR).
ISC XII 02 05 25 42.2±.77 **62.87N**±.038 **151.1W**±.10 **129**±13 **57 1-5**
NEIC XII 02 05 25 43.9 62.87N 151.12W 111 **¶97xii0188**
NEIC After AEIC.
ISC XII 02 15 14 32.2±.42 **62.57N**±.027 **149.81W**±.070 **70**±12 4.6b **60 0-35**
NEIC XII 02 15 14 32.2 62.55N 149.83W 69 **¶97xii0269**
NEIC M_L2.6(AEIC), After AEIC.
ISC XII 03 00 25 43±1.1 **62.90N**±.045 **150.5W**±.19 **105**±17 **23 0-4**
NEIC XII 03 00 25 43.9 62.91N 150.69W 88 **¶97xii0337**
NEIC After AEIC.
ISC XII 04 03 19 30.5±.73 **63.35N**±.055 **151.7W**±.14 **7** **17 1-3**
NEIC XII 04 03 19 31.5 63.37N 151.51W 7 **¶97xii0548**
NEIC M_L3.3(PMR), M_L3.0(AEIC), After AEIC.
ISC XII 05 19 02 25±4.2 **63.43N**±.043 **151.1W**±.17 **12**±33 **27 1-4**
NEIC XII 05 19 02 24.7 63.42N 151.00W 12 **¶97xii1035**
NEIC M_L2.6(AEIC), After AEIC.
ISC XII 05 23 45 16.9±.66 **63.06N**±.033 **149.46W**±.092 **102**±12 **46 0-4**
NEIC XII 05 23 45 18.1 63.06N 149.45W 86 **¶97xii1153**
NEIC After AEIC.
ISC XII 09 20 03 58.9±.47 **62.69N**±.028 **149.50W**±.075 **75**±15 **54 0-4**
NEIC XII 09 20 03 58.9 62.68N 149.60W 74 **¶97xii2229**
NEIC After AEIC.
ISC XII 11 09 28 53.5±.41 **63.10N**±.035 **150.9W**±.10 **122** **48 1-5**
NEIC XII 11 09 28 53.9 63.12N 150.98W 122 **¶97xii2533**
NEIC After AEIC.
ISC XII 11 22 50 00.8±.59 **62.93N**±.033 **151.05W**±.079 **143**±9.9 **76 1-17**
NEIC XII 11 22 50 01.8 62.93N 151.11W 135 3.0b **¶97xii2651**
NEIC After AEIC.
ISC XII 12 00 15 54.2±.79 **62.86N**±.042 **148.2W**±.10 **75**±17 **25 0-4**
NEIC XII 12 00 15 55.7 62.85N 148.20W 51 **¶97xii2665**
NEIC M_L2.9(PMR), M_L2.5(AEIC), After AEIC.
ISC XII 12 00 46 14.4±.71 **62.24N**±.051 **149.8W**±.10 **62**±15 **21 0-4**
NEIC XII 12 00 46 16.0 62.23N 149.74W 45 **¶97xii2674**
NEIC M_L2.8(PMR), M_L2.5(AEIC), After AEIC.
ISC XII 12 15 58 43.9±.87 **62.83N**±.054 **149.6W**±.13 **81**±15 **17 0-4**
NEIC XII 12 15 58 44.7 62.82N 149.49W 71 **¶97xii2777**
NEIC After AEIC.
ISC XII 13 16 10 19±1.1 **63.21N**±.099 **151.3W**±.21 **7** **7 2-3**
NEIC XII 13 16 10 20.0 63.24N 150.92W 7 **¶97xii2974**
NEIC M_L2.8(PMR), M_L2.3(AEIC), After AEIC.
ISC XII 13 16 11 40±1.9 **63.25N**±.038 **150.8W**±.12 **6**±15 **30 1-5**
NEIC XII 13 16 11 41.2 63.21N 150.82W 19 **¶97xii2975**
NEIC M_L2.8(PMR), M_L2.5(AEIC), After AEIC.
ISC XII 14 13 00 04.1±.90 **62.31N**±.055 **148.17W**±.097 **30**±10 **19 1-4**
NEIC XII 14 13 00 05.1 62.31N 148.13W 31 **¶97xii3151**
NEIC M_L2.9(PMR), M_L2.7(AEIC), After AEIC.
ISC XII 15 01 32 21.2±.74 **64.58N**±.052 **150.3W**±.13 **18** **19 0-3**
NEIC XII 15 01 32 20.9 64.56N 150.28W 18 **¶97xii3221**
NEIC M_L2.5(AEIC), After AEIC.
ISC XII 15 06 56 29.2±.88 **63.24N**±.084 **152.1W**±.20 **33** **9 2-3**
NEIC XII 15 06 56 29.2 63.26N 152.15W 33 **¶97xii3253**
NEIC M_L2.8(PMR), Less reliable solution.
ISC XII 15 17 02 16.8±.66 **62.39N**±.036 **151.49W**±.093 **106**±13 **46 0-5**
NEIC XII 15 17 02 18.6 62.37N 151.49W 96 **¶97xii3312**
NEIC After AEIC.

ISC XII 16 02 19 50±4.5 **63.30N**±.046 **151.4W**±.12 **12**±37 **22 1-5**
NEIC XII 16 02 19 51.0 63.27N 151.30W 11 **¶97xii3371**
NEIC M_L3.6(PMR), M_L3.2(AEIC), After AEIC.
ISC XII 16 05 27 50±1.0 **63.16N**±.095 **151.2W**±.17 **33** **8 2-3**
NEIC XII 16 05 27 49.8 63.15N 151.24W 33 **¶97xii3390**
NEIC $M_{L2.8}$(PMR).
ISC XII 16 10 00 26.9±.82 **63.42N**±.076 **151.7W**±.18 **33** **8 2-3**
NEIC XII 16 10 00 26.8 63.42N 151.76W 33 **¶97xii3434**
NEIC $M_{L3.0}$(PMR).
ISC XII 16 10 38 27±2.0 **63.29N**±.045 **151.2W**±.12 **2**±16 **21 1-5**
NEIC XII 16 10 38 27.8 63.27N 151.14W 8 **¶97xii3437**
NEIC M_L3.2(PMR), M_L2.8(AEIC), After AEIC.
ISC XII 16 14 20 26.8±.60 **62.31N**±.046 **148.87W**±.092 **60**±15 **27 1-4**
NEIC XII 16 14 20 28.5 62.30N 148.83W 37 **¶97xii3461**
NEIC M_L3.1(PMR), M_L3.0(AEIC), After AEIC.
ISC XII 16 21 13 55±5.0 **63.29N**±.049 **151.1W**±.15 **12**±41 **16 1-3**
NEIC XII 16 21 13 54.2 63.30N 151.21W 11 **¶97xii3505**
NEIC M_L3.0(PMR), M_L2.9(AEIC), After AEIC.
ISC XII 17 05 22 42.0±.82 **63.33N**±.078 **151.9W**±.18 **33** **9 2-3**
NEIC XII 17 05 22 41.9 63.37N 151.69W 33 **¶97xii3556**
NEIC $M_{L3.1}$(PMR).
ISC XII 17 08 26 01±1.7 **63.03N**±.048 **150.8W**±.28 **140**±21 **22 1-3**
NEIC XII 17 08 26 02.0 63.03N 150.75W 129 **¶97xii3577**
NEIC After AEIC.
ISC XII 17 11 41 13.3±.83 **63.97N**±.070 **149.8W**±.20 **33** **9 1-4**
NEIC XII 17 11 41 13.2 63.97N 149.82W 33 **¶97xii3597**
NEIC $M_{L3.3}$(PMR).
ISC XII 19 22 12 54.2±.49 **62.81N**±.031 **149.65W**±.075 **77**±12 **54 0-4**
NEIC XII 19 22 12 54.3 62.77N 149.66W 76 **¶97xii4041**
NEIC After AEIC.
ISC XII 20 05 35 00.6±.53 **63.36N**±.038 **145.3W**±.10 **4** **21 0-3**
NEIC XII 20 05 35 00.7 63.34N 145.27W 4 **¶97xii4083**
NEIC M_L2.7(AEIC), After AEIC.
ISC XII 20 22 18 18.1±.59 **62.65N**±.030 **148.75W**±.090 **60**±18 **37 1-3**
NEIC XII 20 22 18 18.6 62.63N 148.70W 48 **¶97xii4178**
NEIC M_L2.5(AEIC), After AEIC.
ISC XII 21 18 20 55.3±.41 **63.36N**±.030 **151.23W**±.075 **10** **71 1-17**
NEIC XII 21 18 20 55.9 63.31N 151.10W 10 **¶97xii4289**
NEIC M_L3.8(PMR), M_L3.4(AEIC), After AEIC.
ISC XII 22 20 37 52.2±.46 **63.32N**±.032 **151.21W**±.099 **15** 3.2b **40 1-45**
NEIC XII 22 20 37 52.6 63.30N 151.00W 15 **¶97xii4483**
EIDC XII 22 20 37 55.5±3.56 63.8N 152.6W 78±31.2 2.9b,3.7s
NEIC M_L3.7(PMR), M_L3.3(AEIC), After AEIC.
EIDC Error ellipse is semi−major=33.6km semi−minor=22.2km azimuth=115Multiple, same az
ISC XII 24 19 18 28.5±.59 **64.41N**±.042 **149.2W**±.12 **19**±7.2 3.8b **29 0-54**
EIDC XII 24 19 18 20.8±3.51 64.5N 150.3W 0 3.5L,3.8b **¶97xii4810**
NEIC XII 24 19 18 28.2 64.34N 149.29W 16
EIDC Error ellipse is semi−major=52.2km semi−minor=28.8km azimuth=60
NEIC M_L3.3(PMR), M_L3.0(AEIC), After AEIC.
ISC XII 27 04 56 56.5±.89 **63.10N**±.044 **144.5W**±.11 **1**±9.0 **18 0-2**
NEIC XII 27 04 56 57.1 63.10N 144.47W 5 **¶97xii5251**
NEIC M_L2.6(AEIC), After AEIC.
ISC XII 29 03 26 25.2±.47 **63.52N**±.040 **146.98W**±.087 **8** **20 0-78**
NEIC XII 29 03 26 25.4 63.50N 147.01W 8 **¶97xii5538**
NEIC M_L2.5(AEIC), After AEIC.
ISC XII 29 08 27 49.1±.51 **62.56N**±.046 **148.4W**±.12 **47** **18 1-3**
NEIC XII 29 08 27 49.5 62.58N 148.40W 47 **¶97xii5562**
NEIC M_L2.6(AEIC), After AEIC.
ISC XII 30 06 00 47.9±.53 **63.57N**±.035 **151.0W**±.11 **11** **33 1-16**
NEIC XII 30 06 00 49.5 63.50N 150.75W 11 **¶97xii5690**
NEIC M_L3.6(PMR), M_L3.1(AEIC), After AEIC.

(2) Southern Alaska.

ISC VII 01 19 13 05.1±.58 **61.50N**±.026 **152.09W**±.062 **7**±4.6 **71 0-5**
NEIC VII 01 19 13 05.6 61.50N 152.11W 9 **¶97vii0132**
NEIC M_L3.2(PMR), M_L3.1(AEIC), After AEIC.
ISC VII 03 15 24 32±1.2 **59.71N**±.064 **152.6W**±.14 **100**±16 **19 0-6**
NEIC VII 03 15 24 33.5 59.73N 152.63W 87 **¶97vii0423**
NEIC After AEIC.
ISC VII 04 02 58 28.0±.86 **59.84N**±.056 **153.5W**±.16 **151**±9.8 **35 0-9**
NEIC VII 04 02 58 30.2 59.89N 153.73W 139 **¶97vii0485**
NEIC After AEIC.
ISC VII 06 15 04 50.4±.63 **61.56N**±.046 **149.94W**±.097 **53**±12 **28 0-2**
NEIC VII 06 15 04 50.7 61.58N 150.08W 45 **¶97vii0894**
NEIC M_L2.5(AEIC), After AEIC.
ISC VII 07 22 31 16±1.1 **61.60N**±.075 **150.9W**±.14 **93**±15 **15 0-4**
NEIC VII 07 22 31 18.5 61.58N 150.90W 65 **¶97vii1098**
NEIC M_L2.6(AEIC), After AEIC.
ISC VII 10 08 54 21.8±.76 **59.29N**±.043 **154.76W**±.084 **8**±6.9 **26 0-4**
NEIC VII 10 08 54 21.6 59.33N 154.70W 0 **¶97vii1482**
NEIC M_L2.6(AEIC), After AEIC.
ISC VII 11 15 39 47.0±.76 **61.40N**±.056 **151.9W**±.11 **9**±6.9 **14 0-2**
NEIC VII 11 15 39 46.8 61.47N 152.00W 4 **¶97vii1702**
NEIC M_L2.6(AEIC), After AEIC.
ISC VII 11 18 57 19±1.7 **59.18N**±.067 **152.5W**±.18 **74**±25 **12 0-2**
NEIC VII 11 18 57 20.4 59.18N 152.47W 64 **¶97vii1716**
NEIC M_L2.6(AEIC), After AEIC.
ISC VII 13 04 34 20.8±.86 **59.56N**±.059 **153.1W**±.14 **129**±9.7 3.8b **28 0-33**
NEIC VII 13 04 34 23.1 59.60N 153.09W 114 3.6b **¶97vii1922**
NEIC After AEIC.
ISC VII 13 19 54 22±1.6 **60.10N**±.074 **152.9W**±.19 **121**±18 **16 0-3**
NEIC VII 13 19 54 26.0 60.13N 152.83W 89 **¶97vii2019**
NEIC After AEIC.
ISC VII 14 01 41 44.0±.76 **59.80N**±.045 **152.4W**±.11 **92**±11 **37 0-6**
NEIC VII 14 01 41 46.0 59.81N 152.47W 76 **¶97vii2055**
NEIC After AEIC.
ISC VII 14 22 42 19.7±.28 **60.94N**±.026 **147.61W**±.043 **55**±8.7 **88 0-7**
NEIC VII 14 22 42 21.3 60.97N 147.58W 32 **¶97vii2216**
NEIC M_L4.0(AEIC), M_L3.9(PMR). Felt I=II MM, After AEIC.
NEIC Felt I=II MM at Valdez.
ISC VII 15 17 01 53.1±.66 **60.18N**±.052 **147.25W**±.080 **19**±8.6 **25 0-5**
NEIC VII 15 17 01 53.5 60.22N 147.28W 7 **¶97vii2324**
NEIC M_L2.7(AEIC), After AEIC.
ISC VII 15 22 58 02±1.3 **60.04N**±.057 **152.8W**±.16 **128**±14 **25 0-3**
NEIC VII 15 22 58 04.7 60.11N 152.75W 105 **¶97vii2366**
NEIC After AEIC.
ISC VII 16 15 01 47.8±.50 **60.43N**±.045 **145.10W**±.062 **28**±6.4 **40 0-5**
NEIC VII 16 15 01 48.6 60.48N 145.09W 17 **¶97vii2457**
NEIC M_L2.6(AEIC), After AEIC.

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**16 22 58 25.0**±.90	**59.92N**±.051	**153.3W**±.13	**152**±8.7		**59**	**0-8**
NEIC	VII	16 22 58 27.4	59.97N	153.34W	137			¶**97vii2511**
NEIC	After AEIC.							
ISC	**VII**	**18 03 01 29.0**±.95	**61.70N**±.058	**151.8W**±.13	**116**±12		**33**	**0-5**
NEIC	VII	18 03 01 31.2	61.65N	151.87W	98			¶**97vii2685**
NEIC	After AEIC.							
ISC	**VII**	**20 01 47 45**±1.3	**60.10N**±.070	**152.6W**±.19	**128**±14		**25**	**0-18**
NEIC	VII	20 01 47 49.0	60.13N	152.41W	95			¶**97vii2987**
NEIC	After AEIC.							
ISC	**VII**	**20 11 06 58.8**±.43	**60.08N**±.054	**152.9W**±.14	**124**		**27**	**0-5**
NEIC	VII	20 11 06 59.6	60.08N	152.94W	124			¶**97vii3076**
NEIC	After AEIC.							
ISC	**VII**	**22 07 37 40.8**±.45	**61.59N**±.035	**141.29W**±.084	**0**		**35**	**1-8**
NEIC	VII	22 07 37 41.4	61.52N	141.56W	0			¶**97vii3339**
PGC	VII	22 07 37 41.5	61.6N	141.4W	0	3.3L		
NEIC	M_L2.8(AEIC), After AEIC.							
PGC	Wrangell Mountains, Alaska.							
ISC	**VII**	**22 11 11 33.7**±.82	**61.59N**±.047	**141.3W**±.15	**0**		**21**	**1-4**
NEIC	VII	22 11 11 34.0	61.51N	141.48W	0			¶**97vii3366**
NEIC	M_L2.6(AEIC), After AEIC.							
ISC	**VII**	**22 13 36 51.1**±.44	**61.62N**±.031	**146.99W**±.066	**30**±5.6		**41**	**0-5**
NEIC	VII	22 13 36 52.2	61.61N	146.96W	27			¶**97vii3382**
NEIC	M_L3.1(PMR), M_L2.6(AEIC), After AEIC.							
ISC	**VII**	**22 23 23 20.0**±.24	**61.17N**±.026	**150.78W**±.046	**66**±5.1	**3.8b**	**94**	**0-61**
EIDC	VII	22 23 23 14.8	60.9N	150.9W	0	3.9b,4.1L		¶**97vii3451**
NEIC	VII	22 23 23 21.6	61.17N	150.88W	48	4.0b		
NEIC	M_L4.0(PMR), M_L3.9(AEIC). Felt I=III MM, After AEIC.							
NEIC	Felt I=III MM at Tyonek.							
ISC	**VII**	**23 01 32 24**±1.7	**60.12N**±.084	**153.2W**±.19	**147**±18		**19**	**0-5**
NEIC	VII	23 01 32 25.6	60.22N	153.15W	138			¶**97vii3466**
NEIC	After AEIC.							
ISC	**VII**	**24 13 31 04**±1.6	**61.10N**±.075	**152.7W**±.22	**161**±14		**33**	**0-5**
NEIC	VII	24 13 31 06.6	60.93N	152.03W	148			¶**97vii3675**
NEIC	After AEIC.							
ISC	**VII**	**24 18 22 05.4**±.63	**59.17N**±.048	**152.50W**±.082	**83**±9.4		**52**	**0-6**
NEIC	VII	24 18 22 06.8	59.18N	152.55W	72			¶**97vii3713**
NEIC	After AEIC.							
ISC	**VII**	**25 13 41 39.8**±.53	**60.44N**±.047	**152.2W**±.11	**99**±6.9	2.7b	**33**	**0-45**
NEIC	VII	25 13 41 42.4	60.44N	152.10W	72			¶**97vii3833**
EIDC	VII	25 13 41 43.7	60.7N	152.0W	108	3.6b		
NEIC	After AEIC.							
ISC	**VII**	**25 17 25 44.4**±.79	**61.73N**±.057	**150.7W**±.11	**73**±12		**21**	**0-4**
NEIC	VII	25 17 25 46.3	61.73N	150.66W	50			¶**97vii3850**
NEIC	M_L3.2(PMR), M_L2.9(AEIC), After AEIC.							
ISC	**VII**	**28 14 50 17.8**±.86	**59.73N**±.043	**153.3W**±.11	**141**±8.9		**69**	**0-6**
NEIC	VII	28 14 50 20.3	59.78N	153.23W	126			¶**97vii4290**
NEIC	After AEIC.							
ISC	**VII**	**28 17 32 19.0**±.64	**60.37N**±.037	**153.13W**±.095	**166**±6.9		**84**	**0-7**
NEIC	VII	28 17 32 21.6	60.35N	153.16W	149			¶**97vii4308**
NEIC	After AEIC.							
ISC	**VII**	**30 01 39 17.9**±.60	**59.36N**±.053	**152.6W**±.10	**98**±7.1	3.9b	**33**	**0-149**
NEIC	VII	30 01 39 19.7	59.38N	152.60W	83			¶**97vii4516**
EIDC	VII	30 01 39 21.1	59.5N	152.2W	98	3.5b		
NEIC	After AEIC.							
ISC	**VII**	**31 01 12 00.0**±.64	**60.13N**±.050	**153.4W**±.12	**168**±7.0	2.9b	**38**	**0-45**
NEIC	VII	31 01 12 02.3	60.15N	153.38W	156	3.7b		¶**97vii4657**
EIDC	VII	31 01 12 04.1	60.3N	153.1W	145	2.7b		
NEIC	After AEIC.							
ISC	**VII**	**31 03 24 02**±1.7	**59.77N**±.071	**153.4W**±.18	**152**±19		**20**	**0-3**
NEIC	VII	31 03 24 05.1	59.85N	153.39W	130			¶**97vii4670**
NEIC	After AEIC.							
ISC	**VII**	**31 08 57 03.4**±.90	**60.14N**±.066	**152.0W**±.10	**75**±13		**21**	**0-18**
NEIC	VII	31 08 57 04.8	60.18N	152.08W	61			¶**97vii4709**
NEIC	M_L2.5(AEIC), After AEIC.							
ISC	**VIII**	**01 13 51 20.3**±.21	**61.65N**±.022	**149.57W**±.041	**36**±9.8		**99**	**0-5**
NEIC	VIII	01 13 51 20.4	61.65N	149.60W	39			¶**97viii0072**
NEIC	M_L3.5(PMR), M_L3.2(AEIC). Felt I=III MM, After AEIC.							
NEIC	Felt I=III MM at Eagle River, Palmer and Willow.							
ISC	**VIII**	**02 01 58 56.2**±.80	**61.51N**±.040	**152.09W**±.093	**8**±6.6		**27**	**0-5**
NEIC	VIII	02 01 58 56.7	61.50N	152.06W	9			¶**97viii0154**
NEIC	M_L3.3(PMR), M_L3.2(AEIC), After AEIC.							
ISC	**VIII**	**02 03 33 54**±1.0	**61.53N**±.054	**152.1W**±.11	**5**±9.1		**15**	**0-2**
NEIC	VIII	02 03 33 54.6	61.53N	152.08W	4			¶**97viii0165**
NEIC	M_L2.6(AEIC), After AEIC.							
ISC	**VIII**	**03 02 10 49**±1.1	**59.27N**±.058	**153.1W**±.15	**102**±12		**27**	**0-6**
NEIC	VIII	03 02 10 51.1	59.32N	153.18W	87			¶**97viii0285**
NEIC	After AEIC.							
ISC	**VIII**	**03 05 27 09.3**±.71	**59.76N**±.048	**152.2W**±.10	**89**±10		**33**	**0-6**
NEIC	VIII	03 05 27 11.7	59.79N	152.23W	69			¶**97viii0308**
NEIC	M_L2.9(AEIC), After AEIC.							
ISC	**VIII**	**04 03 10 02.3**±.74	**61.54N**±.061	**149.9W**±.12	**42**±15		**18**	**0-4**
NEIC	VIII	04 03 10 01.9	61.52N	150.02W	47			¶**97viii0450**
NEIC	M_L2.6(AEIC), After AEIC.							
ISC	**VIII**	**05 07 22 24.6**±.69	**61.51N**±.027	**152.08W**±.069	**3**±5.6		**64**	**0-5**
NEIC	VIII	05 07 22 25.1	61.49N	152.01W	6			¶**97viii0628**
NEIC	M_L2.9(PMR), M_L2.6(AEIC), After AEIC.							
ISC	**VIII**	**06 01 42 15**±1.4	**61.16N**±.077	**141.7W**±.12	**9**±9.7		**18**	**0-4**
NEIC	VIII	06 01 42 15.0	61.17N	141.69W	5			¶**97viii0748**
NEIC	M_L2.7(AEIC), After AEIC.							
ISC	**VIII**	**06 06 17 40**±1.0	**59.90N**±.052	**152.7W**±.12	**103**±13		**24**	**0-4**
NEIC	VIII	06 06 17 42.9	59.94N	152.61W	77			¶**97viii0761**
NEIC	After AEIC.							
ISC	**VIII**	**07 23 35 38.5**±.51	**61.64N**±.052	**150.08W**±.073	**43**±14		**29**	**0-4**
NEIC	VIII	07 23 35 39.0	61.68N	150.11W	36			¶**97viii1014**
NEIC	M_L2.6(AEIC), After AEIC.							
ISC	**VIII**	**08 15 46 03**±1.0	**59.20N**±.061	**152.4W**±.13	**85**±14		**18**	**0-4**
NEIC	VIII	08 15 46 05.2	59.20N	152.41W	65			¶**97viii1128**
NEIC	M_L3.3(AEIC), After AEIC.							
ISC	**VIII**	**10 01 46 24.4**±.22	**61.21N**±.024	**148.07W**±.040	**38**±12		**87**	**0-5**
NEIC	VIII	10 01 46 25.0	61.23N	148.06W	33			¶**97viii1335**
NEIC	M_L3.8(AEIC), M_L3.6(PMR), After AEIC.							
ISC	**VIII**	**10 08 16 17**±2.0	**60.29N**±.083	**152.4W**±.14	**107**±22		**18**	**0-2**
NEIC	VIII	10 08 16 18.1	60.37N	152.38W	101			¶**97viii1372**
NEIC	After AEIC.							
ISC	**VIII**	**10 08 35 42**±1.5	**59.58N**±.068	**152.4W**±.13	**83**±19		**16**	**0-2**
NEIC	VIII	10 08 35 43.3	59.58N	152.35W	75			¶**97viii1375**
NEIC	After AEIC.							
ISC	**VIII**	**10 11 23 21**±1.3	**61.87N**±.078	**151.9W**±.13	**131**±16		**22**	**0-5**
NEIC	VIII	10 11 23 24.3	61.92N	151.92W	102			¶**97viii1385**
NEIC	After AEIC.							
ISC	**VIII**	**12 19 04 25**±4.0	**59.8N**±.13	**153.7W**±.23	**147**±43		**12**	**0-2**
NEIC	VIII	12 19 04 26.3	59.95N	153.70W	145			¶**97viii1794**
NEIC	After AEIC.							
ISC	**VIII**	**15 12 40 47.7**±.69	**59.04N**±.049	**152.1W**±.10	**72**±12		**36**	**0-6**
NEIC	VIII	15 12 40 49.3	59.07N	152.27W	63			¶**97viii2219**
NEIC	M_L2.8(AEIC), After AEIC.							
ISC	**VIII**	**15 15 18 47.3**±.47	**61.93N**±.040	**150.41W**±.069	**59**±11		**43**	**0-5**
NEIC	VIII	15 15 18 48.6	61.91N	150.44W	42			¶**97viii2233**
NEIC	M_L3.0(PMR), M_L2.8(AEIC), After AEIC.							
ISC	**VIII**	**16 12 22 12.7**±.23	**61.35N**±.024	**149.47W**±.042	**37**±9.4		**83**	**0-4**
NEIC	VIII	16 12 22 12.7	61.39N	149.58W	39			¶**97viii2369**
NEIC	M_L2.8(AEIC), M_L2.7(PMR), After AEIC.							
ISC	**VIII**	**17 00 26 24.0**±.97	**59.88N**±.052	**153.2W**±.16	**132**±9.9		**39**	**0-7**
NEIC	VIII	17 00 26 25.7	59.92N	153.21W	121			¶**97viii2442**
NEIC	After AEIC.							
ISC	**VIII**	**17 10 40 01.9**±.37	**61.38N**±.041	**150.10W**±.070	**69**±5.6	**3.3b**	**43**	**0-44**
EIDC	VIII	17 10 39 58.8	61.2N	149.4W	0	3.5b,3.6L		¶**97viii2523**
NEIC	VIII	17 10 40 03.4	61.40N	150.19W	52			
NEIC	M_L3.6(AEIC), M_L3.5(PMR). Felt I=III MM, After AEIC.							
NEIC	Felt I=III MM at Eagle River.							
ISC	**VIII**	**17 14 18 52**±1.2	**60.19N**±.073	**153.2W**±.19	**148**±13		**23**	**0-5**
NEIC	VIII	17 14 18 54.6	60.20N	153.25W	134			¶**97viii2549**
NEIC	After AEIC.							
ISC	**VIII**	**19 07 54 56.8**±.55	**61.62N**±.038	**146.38W**±.083	**44**±17		**33**	**0-4**
NEIC	VIII	19 07 54 57.8	61.61N	146.38W	35			¶**97viii2778**
NEIC	M_L2.6(AEIC), After AEIC.							
ISC	**VIII**	**19 14 43 10**±1.3	**60.10N**±.067	**152.7W**±.16	**118**±15		**20**	**0-3**
NEIC	VIII	19 14 43 12.7	60.14N	152.66W	99			¶**97viii2822**
NEIC	After AEIC.							
ISC	**VIII**	**20 08 02 39.1**±.49	**60.11N**±.032	**153.39W**±.076	**162**±5.5		**104**	**0-7**
NEIC	VIII	20 08 02 41.2	60.09N	153.31W	149			¶**97viii2928**
NEIC	After AEIC.							
ISC	**VIII**	**20 12 19 24.1**±.61	**61.72N**±.040	**151.64W**±.092	**107**±9.4		**42**	**0-6**
NEIC	VIII	20 12 19 26.1	61.72N	151.66W	92			¶**97viii2958**
NEIC	After AEIC.							
ISC	**VIII**	**20 14 43 02.0**±.26	**60.09N**±.031	**152.87W**±.072	**120**		**81**	**0-6**
NEIC	VIII	20 14 43 03.0	60.11N	152.98W	120			¶**97viii2975**
NEIC	After AEIC.							
ISC	**VIII**	**20 17 23 22.6**±.46	**59.50N**±.035	**152.35W**±.067	**87**±7.4		**83**	**0-6**
NEIC	VIII	20 17 23 24.3	59.54N	152.45W	75			¶**97viii2995**
NEIC	After AEIC.							
ISC	**VIII**	**20 19 48 19**±1.7	**62.0N**±.28	**150.1W**±.24	**48**±44		**6**	**0-3**
NEIC	VIII	20 19 48 19.4	62.00N	150.06W	42			¶**97viii3007**
NEIC	M_L2.5(PMR), M_L2.4(AEIC), After AEIC.							
ISC	**VIII**	**21 12 01 05**±1.5	**59.6N**±.12	**152.3W**±.15	**102**±17		**18**	**0-5**
NEIC	VIII	21 12 01 07.9	59.73N	152.36W	80			¶**97viii3092**
NEIC	After AEIC.							
ISC	**VIII**	**21 19 11 17.7**±.52	**61.23N**±.050	**146.11W**±.076	**29**±5.5		**26**	**0-4**
NEIC	VIII	21 19 11 18.5	61.25N	146.14W	21			¶**97viii3127**
NEIC	M_L3.1(AEIC), After AEIC.							
ISC	**VIII**	**24 08 45 09**±2.9	**59.91N**±.095	**153.7W**±.24	**156**±30		**15**	**0-2**
NEIC	VIII	24 08 45 09.9	59.99N	153.65W	155			¶**97viii3501**
NEIC	After AEIC.							
ISC	**VIII**	**24 13 46 34.3**±.62	**61.58N**±.059	**150.07W**±.091	**49**±12		**24**	**0-5**
NEIC	VIII	24 13 46 35.1	61.55N	149.99W	41			¶**97viii3543**
NEIC	M_L3.2(PMR), M_L3.0(AEIC), After AEIC.							
ISC	**VIII**	**25 23 54 48.8**±.28	**61.11N**±.025	**150.53W**±.044	**67**±7.0		**96**	**0-6**
NEIC	VIII	25 23 54 50.4	61.14N	150.65W	47			¶**97viii3756**
NEIC	M_L3.1(AEIC), After AEIC.							
ISC	**VIII**	**26 21 04 55**±4.7	**61.8N**±.32	**149.8W**±.67	**44**±34		**6**	**0-2**
NEIC	VIII	26 21 04 53.9	61.95N	150.00W	47			¶**97viii3904**
NEIC	M_L2.1(PMR), M_L2.0(AEIC), After AEIC.							
ISC	**VIII**	**28 16 07 13**±1.4	**61.6N**±.20	**151.8W**±.18	**6**		**7**	**1-3**
NEIC	VIII	28 16 07 15.1	61.48N	151.75W	6			¶**97viii4156**
NEIC	M_L2.3(PMR), M_L2.0(AEIC), After AEIC.							
ISC	**VIII**	**29 16 19 01**±1.2	**59.01N**±.074	**153.7W**±.19	**127**±11		**23**	**0-8**
NEIC	VIII	29 16 19 04.7	59.05N	153.78W	98			¶**97viii4346**
NEIC	After AEIC.							
ISC	**VIII**	**30 06 31 51.3**±.59	**61.44N**±.052	**148.83W**±.080	**38**±14		**25**	**0-3**
NEIC	VIII	30 06 31 51.8	61.44N	148.86W	38			¶**97viii4445**
NEIC	M_L2.8(AEIC), After AEIC.							
ISC	**VIII**	**31 17 29 28.6**±.90	**60.39N**±.053	**152.4W**±.12	**110**±10		**31**	**0-7**
NEIC	VIII	31 17 29 30.0	60.45N	152.41W	99			¶**97viii4684**
NEIC	After AEIC.							
ISC	**IX**	**01 01 04 16.0**±.99	**59.80N**±.052	**153.9W**±.13	**159**±11		**50**	**0-5**
NEIC	IX	01 01 04 18.0	59.89N	153.86W	147			¶**97ix0014**
NEIC	After AEIC.							
ISC	**IX**	**01 16 13 34.6**±.56	**60.02N**±.032	**153.23W**±.083	**136**±6.7		**93**	**0-5**
NEIC	IX	01 16 13 36.2	60.05N	153.24W	127			¶**97ix0135**
NEIC	After AEIC.							
ISC	**IX**	**01 20 41 52.7**±.45	**59.49N**±.032	**152.61W**±.069	**88**±6.5		**91**	**0-6**
NEIC	IX	01 20 41 54.5	59.52N	152.67W	73			¶**97ix0160**
NEIC	After AEIC.							
ISC	**IX**	**02 10 07 05.6**±.62	**60.55N**±.041	**142.24W**±.074	**2**±7.4		**22**	**0-3**
NEIC	IX	02 10 07 05.2	60.54N	142.25W	0			¶**97ix0256**
NEIC	M_L2.5(AEIC), After AEIC.							
ISC	**IX**	**02 10 10 33**±1.8	**60.22N**±.069	**153.4W**±.24	**163**±15		**30**	**0-5**
NEIC	IX	02 10 10 36.2	60.22N	153.08W	140			¶**97ix0257**
NEIC	After AEIC.							
ISC	**IX**	**02 23 39 06**±1.1	**60.88N**±.051	**152.2W**±.13	**114**±12		**37**	**0-5**
NEIC	IX	02 23 39 07.2	60.88N	152.22W	102			¶**97ix0350**
NEIC	After AEIC.							
ISC	**IX**	**03 15 02 02**±1.5	**59.24N**±.070	**153.6W**±.17	**113**±16		**21**	**0-5**
NEIC	IX	03 15 02 03.6	59.27N	153.60W	103			¶**97ix0438**
NEIC	After AEIC.							
ISC	**IX**	**05 17 56 10.9**±.71	**61.16N**±.051	**151.22W**±.093	**88**±9.9		**27**	**0-5**
NEIC	IX	05 17 56 13.5	61.15N	151.18W	55			¶**97ix0780**
NEIC	M_L3.6(PMR), M_L3.2(AEIC), After AEIC.							
ISC	**IX**	**05 21 58 35.1**±.30	**61.47N**±.033	**149.15W**±.051	**33**±10		**53**	**0-5**
NEIC	IX	05 21 58 34.9	61.52N	149.22W	40			¶**97ix0801**
NEIC	M_L3.0(AEIC), M_L3.0(PMR). Felt, After AEIC.							
NEIC	Felt at Palmer.							
ISC	**IX**	**05 22 32 22.9**±.56	**60.08N**±.068	**153.2W**±.18	**137**		**21**	**0-5**
NEIC	IX	05 22 32 24.0	60.10N	153.28W	137			¶**97ix0806**
NEIC	After AEIC.							
ISC	**IX**	**06 04 36 56.3**±.60	**59.50N**±.036	**152.96W**±.086	**116**±7.5		**79**	**0-6**
NEIC	IX	06 04 36 57.9	59.53N	153.01W	104			¶**97ix0858**
NEIC	After AEIC.							

ISC IX 07 06 12 04.1±.71 **61.08N**±.058 **149.73W**±.089 **56**±11 **24 0-5**
NEIC IX 07 06 12 05.1 61.09N 149.78W 44 **¶97ix1021**
NEIC M_L3.2(PMR), M_L2.8(AEIC), After AEIC.
ISC IX 08 11 15 52.6±.52 **61.51N**±.036 **151.23W**±.082 **78**±9.6 **38 0-5**
NEIC IX 08 11 15 53.9 61.50N 151.19W 67 **¶97ix1211**
NEIC M_L3.1(PMR), M_L3.1(AEIC), After AEIC.
ISC IX 08 11 34 00.5±.42 **61.59N**±.036 **146.26W**±.078 **37**±19 **33 0-4**
NEIC IX 08 11 34 01.1 61.59N 146.27W 36 **¶97ix1213**
NEIC M_L2.6(AEIC), After AEIC.
ISC IX 08 17 24 27±1.9 **60.26N**±.090 **153.2W**±.23 **152**±18 **26 0-5**
NEIC IX 08 17 24 29.4 60.28N 153.20W 140 **¶97ix1251**
NEIC After AEIC.
ISC IX 09 00 25 16.1±.78 **59.92N**±.041 **153.2W**±.11 **126**±8.5 **60 0-4**
NEIC IX 09 00 25 17.6 59.95N 153.20W 116 **¶97ix1301**
NEIC After AEIC.
ISC IX 09 02 51 51.7±.48 **59.95N**±.029 **152.95W**±.073 **122**±5.9 **108 0-7**
NEIC IX 09 02 51 53.3 59.96N 152.96W 111 **¶97ix1314**
NEIC After AEIC.
ISC IX 09 19 02 33.3±.66 **60.16N**±.036 **153.51W**±.098 **173**±6.9 **89 0-6**
NEIC IX 09 19 02 35.4 60.14N 153.24W 161 **¶97ix1429**
NEIC After AEIC.
ISC IX 10 14 32 47.0±.54 **61.12N**±.038 **151.10W**±.068 **72**±9.3 **49 0-5**
NEIC IX 10 14 32 48.6 61.10N 151.12W 54 **¶97ix1530**
NEIC M_L3.0(AEIC), After AEIC.
ISC IX 11 13 41 59.1±.55 **60.41N**±.038 **143.00W**±.052 **10**±5.0 **51 0-7**
NEIC IX 11 13 41 59.6 60.47N 142.96W 5 **¶97ix1683**
PGC IX 11 13 41 59.7 60.4N 143.0W 5 3.3L
NEIC M_L3.1(AEIC), After AEIC.
PGC Chugach Mountains, Alaska.
ISC IX 12 01 18 31.5±.22 **61.25N**±.023 **146.95W**±.038 **46**±9.5 **105 0-6**
NEIC IX 12 01 18 32.6 61.28N 146.95W 20 **¶97ix1757**
NEIC M_L3.6(AEIC), M_L3.6(PMR), After AEIC.
ISC IX 14 21 41 45.5±.25 **61.96N**±.023 **151.13W**±.051 **99**±4.8 **3.7b 112 0-83**
EIDC IX 14 21 41 45.6 62.1N 151.2W 80 4.0L,3.5b **¶97ix2168**
NEIC IX 14 21 41 47.1 61.96N 151.22W 87
NEIC After AEIC.
ISC IX 14 21 58 52.3±.54 **60.04N**±.031 **152.60W**±.077 **105**±7.1 **86 0-6**
NEIC IX 14 21 58 54.0 60.08N 152.71W 93 **¶97ix2171**
NEIC After AEIC.
ISC IX 15 02 06 41.3±.26 **60.34N**±.025 **152.82W**±.057 **120**±3.2 **3.9b 136 0-148**
EIDC IX 15 02 06 39.3 60.5N 153.2W 80 3.6b **¶97ix2191**
NEIC IX 15 02 06 43.1 60.34N 152.88W 112 4.2b
NEIC Felt I=II MM, After AEIC.
NEIC Felt I=II MM at Anchorage.
ISC IX 15 07 38 16.7±.19 **61.05N**±.022 **150.51W**±.038 **55**±5.2 **3.9b 118 0-44**
EIDC IX 15 07 38 16.9 61.0N 150.8W 46 3.8b,3.6L **¶97ix2211**
NEIC IX 15 07 38 17.8 61.08N 150.62W 46 3.9b
NEIC M_L4.0(PMR), M_L3.9(AEIC). Felt I=III MM, After AEIC.
NEIC Felt I=III MM at Anchorage.
ISC IX 15 09 57 58.9±.40 **59.86N**±.047 **153.38W**±.096 **145**±4.9 **3.8b 44 0-83**
EIDC IX 15 09 57 57.4 60.0N 153.8W 94 3.7b **¶97ix2224**
NEIC IX 15 09 58 00.9 59.90N 153.40W 135 3.7b
NEIC After AEIC.
ISC IX 16 04 35 46.9±.22 **61.00N**±.023 **147.59W**±.035 **49**±8.9 **109 0-6**
NEIC IX 16 04 35 48.2 61.04N 147.57W 30 **¶97ix2331**
NEIC M_L3.8(AEIC), M_L3.7(PMR), After AEIC.
ISC IX 17 14 54 47.4±.99 **61.71N**±.064 **151.6W**±.12 **122**±13 **24 0-5**
NEIC IX 17 14 54 50.6 61.74N 151.60W 94 **¶97ix2523**
NEIC After AEIC.
ISC IX 18 08 30 39.2±.77 **60.08N**±.047 **153.5W**±.12 **161**±8.1 **56 0-7**
NEIC IX 18 08 30 41.1 60.11N 153.51W 151 **¶97ix2633**
NEIC After AEIC.
ISC IX 18 22 50 30.3±.96 **59.88N**±.051 **153.3W**±.14 **145**±11 **47 0-19**
NEIC IX 18 22 50 31.9 59.90N 153.54W 137 **¶97ix2721**
NEIC After AEIC.
ISC IX 19 19 26 08.7±.61 **60.12N**±.035 **152.73W**±.088 **121**±7.6 **78 0-6**
NEIC IX 19 19 26 11.0 60.15N 152.78W 102 **¶97ix2834**
NEIC After AEIC.
ISC IX 20 06 53 14.0±.74 **59.85N**±.042 **153.4W**±.11 **137**±7.8 **72 0-7**
NEIC IX 20 06 53 15.3 59.88N 153.51W 130 **¶97ix2911**
NEIC After AEIC.
ISC IX 20 20 27 38.3±.76 **60.26N**±.040 **153.7W**±.11 **198**±7.8 **83 0-6**
NEIC IX 20 20 27 39.9 60.29N 153.70W 190 **¶97ix3003**
NEIC After AEIC.
ISC IX 22 00 42 03.2±.51 **59.54N**±.036 **152.96W**±.076 **113**±6.7 **82 0-7**
NEIC IX 22 00 42 04.7 59.56N 152.99W 102 **¶97ix3195**
NEIC After AEIC.
ISC IX 22 06 29 18±1.1 **60.03N**±.047 **153.0W**±.14 **128**±11 **51 0-5**
NEIC IX 22 06 29 20.9 60.08N 152.96W 110 **¶97ix3232**
NEIC After AEIC.
ISC IX 22 17 46 30.3±.73 **59.95N**±.045 **153.6W**±.11 **153**±8.1 **66 0-7**
NEIC IX 22 17 46 35.4 60.03N 153.60W 113 **¶97ix3307**
NEIC After AEIC.
ISC IX 22 18 46 40.2±.48 **61.94N**±.028 **151.85W**±.072 **127**±7.6 **86 0-5**
NEIC IX 22 18 46 42.0 61.92N 151.90W 115 **¶97ix3317**
NEIC After AEIC.
ISC IX 23 08 14 00.6±.86 **59.65N**±.058 **152.2W**±.11 **76**±13 **24 0-6**
NEIC IX 23 08 14 01.8 59.68N 152.11W 60 **¶97ix3396**
NEIC M_L3.4(PMR), M_L3.0(AEIC), After AEIC.
ISC IX 23 15 08 55.5±.53 **61.69N**±.064 **149.6W**±.11 **29**±7.0 **18 0-2**
NEIC IX 23 15 08 55.2 61.70N 149.63W 38 **¶97ix3440**
NEIC M_L2.5(AEIC), After AEIC.
ISC IX 23 20 15 41±4.0 **61.7N**±.12 **151.2W**±.26 **67**±46 **9 0-1**
NEIC IX 23 20 15 40.2 61.64N 151.07W 78 **¶97ix3471**
NEIC After AEIC.
ISC IX 23 22 40 29±1.2 **59.11N**±.071 **152.4W**±.12 **83**±15 **24 0-4**
NEIC IX 23 22 40 30.5 59.13N 152.31W 70 **¶97ix3491**
NEIC M_L3.3(PMR), M_L3.2(AEIC), After AEIC.
ISC IX 24 05 33 42.1±.60 **61.78N**±.034 **151.84W**±.085 **117**±8.7 **67 0-4**
NEIC IX 24 05 33 43.8 61.75N 151.86W 107 **¶97ix3528**
NEIC After AEIC.
ISC IX 25 15 17 17±1.2 **61.04N**±.079 **151.2W**±.11 **96**±15 **21 0-3**
NEIC IX 25 15 17 19.9 61.03N 151.13W 62 **¶97ix3753**
NEIC M_L3.0(AEIC), M_L2.8(PMR), After AEIC.
ISC IX 25 21 51 14.5±.21 **61.97N**±.021 **150.01W**±.046 **51**±6.0 **3.8b 103 0-147**
NEIC IX 25 21 51 15.6 61.94N 150.04W 38 4.0b **¶97ix3796**
EIDC IX 25 21 51 18.8 62.1N 149.8W 80 3.5b
NEIC M_L4.0(PMR), M_L3.9(AEIC). Felt I=II MM, After AEIC.
NEIC Felt I=II MM at Talkeetna. Also felt at Palmer and Willow.
ISC IX 26 04 02 28.3±.65 **61.76N**±.044 **151.8W**±.11 **107**±9.9 **40 0-5**
NEIC IX 26 04 02 30.0 61.70N 151.78W 99 **¶97ix3868**
NEIC After AEIC.
ISC IX 26 09 05 24.1±.64 **60.11N**±.046 **147.11W**±.057 **24**±7.4 **45 0-5**
NEIC IX 26 09 05 24.8 60.16N 147.08W 9 **¶97ix3929**
NEIC M_L2.6(AEIC), After AEIC.
ISC IX 27 06 09 13.2±.49 **60.10N**±.053 **153.0W**±.14 **112 24 0-18**
EIDC IX 27 06 09 11.3 60.0N 153.3W 106 **¶97ix4268**
NEIC IX 27 06 09 14.7 60.07N 153.01W 112 3.1b
NEIC After AEIC.
ISC IX 28 15 01 41.4±.32 **61.03N**±.038 **150.42W**±.068 **39 36 0-4**
NEIC IX 28 15 01 42.1 61.02N 150.46W 39 **¶97ix4674**
NEIC M_L2.6(AEIC), After AEIC.
ISC IX 28 16 08 48.1±.73 **61.53N**±.041 **152.08W**±.085 **5**±5.7 **39 0-4**
NEIC IX 28 16 08 48.6 61.51N 152.08W 1 **¶97ix4697**
NEIC M_L2.5(AEIC), After AEIC.
ISC IX 28 18 28 58.3±.53 **61.51N**±.042 **150.75W**±.070 **73**±9.4 **41 0-5**
NEIC IX 28 18 28 59.1 61.49N 150.75W 67 **¶97ix4728**
NEIC M_L2.7(AEIC), After AEIC.
ISC IX 28 22 56 36.1±.84 **59.55N**±.057 **152.25W**±.099 **100**±10 **39 0-7**
NEIC IX 28 22 56 37.8 59.60N 152.27W 88 **¶97ix4779**
NEIC After AEIC.
ISC IX 29 11 55 32.1±.41 **61.38N**±.039 **150.36W**±.066 **23**±6.0 **28 0-5**
NEIC IX 29 11 55 32.4 61.38N 150.40W 10 **¶97ix4940**
NEIC M_L3.0(PMR), M_L2.9(AEIC), After AEIC.
ISC IX 29 15 47 16±1.1 **61.75N**±.065 **150.8W**±.12 **69**±21 **19 0-3**
NEIC IX 29 15 47 17.4 61.73N 150.76W 50 **¶97ix4975**
NEIC M_L2.7(AEIC), After AEIC.
ISC X 01 19 34 06.8±.56 **60.20N**±.053 **144.35W**±.061 **30**±5.7 **40 0-5**
NEIC X 01 19 34 07.9 60.27N 144.29W 18 **¶97x0145**
NEIC M_L2.8(AEIC), After AEIC.
ISC X 02 08 26 07.5±.83 **59.48N**±.056 **154.2W**±.14 **159**±8.6 **45 0-6**
NEIC X 02 08 26 09.5 59.53N 154.45W 143 **¶97x0241**
NEIC After AEIC.
ISC X 03 08 33 58.3±.55 **61.40N**±.037 **150.93W**±.070 **83**±9.6 **48 0-5**
NEIC X 03 08 34 00.0 61.35N 151.00W 67 **¶97x0426**
NEIC M_L2.9(AEIC), After AEIC.
ISC X 05 11 01 55.4±.27 **61.77N**±.027 **152.38W**±.063 **142**±3.7 **3.8b 115 0-82**
EIDC X 05 11 01 53.6 61.8N 152.9W 109 3.7b **¶97x0855**
NEIC X 05 11 01 56.3 61.73N 152.40W 147 3.6b
NEIC After AEIC.
ISC X 05 15 02 54.0±.69 **60.25N**±.038 **152.47W**±.090 **116**±9.0 **55 0-5**
NEIC X 05 15 02 56.0 60.26N 152.48W 100 **¶97x0877**
NEIC After AEIC.
ISC X 06 05 17 31±1.2 **60.27N**±.053 **152.7W**±.14 **103**±12 **31 0-3**
NEIC X 06 05 17 32.7 60.28N 152.75W 95 **¶97x0996**
NEIC After AEIC.
ISC X 06 08 49 42.5±.93 **59.96N**±.063 **153.0W**±.14 **120**±10 **27 0-7**
NEIC X 06 08 49 44.6 59.97N 152.97W 107 **¶97x1021**
NEIC After AEIC.
ISC X 07 20 26 49.8±.60 **60.42N**±.034 **152.80W**±.086 **147**±7.6 **75 0-6**
NEIC X 07 20 26 53.0 60.42N 152.76W 125 **¶97x1297**
NEIC After AEIC.
ISC X 07 23 26 32.2±.52 **60.06N**±.031 **152.48W**±.077 **108**±7.3 **81 0-6**
NEIC X 07 23 26 34.3 60.08N 152.52W 90 **¶97x1320**
NEIC After AEIC.
ISC X 09 13 13 00.9±.52 **60.44N**±.034 **152.32W**±.084 **117**±7.1 **68 0-6**
NEIC X 09 13 13 03.6 60.45N 152.33W 94 **¶97x1584**
NEIC After AEIC.
ISC X 13 16 30 28.6±.71 **60.20N**±.040 **152.60W**±.094 **121**±9.0 **57 0-5**
NEIC X 13 16 30 30.3 60.23N 152.64W 108 **¶97x2250**
NEIC After AEIC.
ISC X 15 02 44 49.6±.50 **61.76N**±.043 **149.10W**±.088 **31**±4.7 **33 0-3**
NEIC X 15 02 44 50.0 61.78N 149.07W 31 **¶97x2543**
NEIC M_L2.5(AEIC), After AEIC.
ISC X 15 03 07 04.1±.54 **61.77N**±.047 **149.83W**±.087 **46**±13 **27 0-5**
NEIC X 15 03 07 04.9 61.75N 149.84W 41 **¶97x2550**
NEIC M_L3.3(PMR), M_L2.6(AEIC), After AEIC.
ISC X 15 11 14 23.7±.42 **61.63N**±.035 **146.35W**±.083 **35**±20 **30 0-3**
NEIC X 15 11 14 24.3 61.63N 146.36W 33 **¶97x2615**
NEIC M_L2.5(AEIC), After AEIC.
ISC X 15 14 27 46.8±.83 **59.78N**±.052 **153.3W**±.12 **134**±9.3 **38 0-7**
NEIC X 15 14 27 49.2 59.81N 153.32W 117 **¶97x2655**
NEIC After AEIC.
ISC X 16 23 03 16.8±.96 **60.06N**±.057 **153.1W**±.12 **137**±10 **47 0-88**
NEIC X 16 23 03 18.8 60.03N 153.14W 125 **¶97x2893**
NEIC After AEIC.
ISC X 18 11 33 25.1±.93 **59.98N**±.061 **153.4W**±.14 **144**±10 **41 0-7**
NEIC X 18 11 33 26.9 59.98N 153.45W 134 **¶97x3150**
NEIC After AEIC.
ISC X 18 15 07 16.3±.79 **59.02N**±.055 **152.35W**±.098 **77**±11 **41 0-6**
NEIC X 18 15 07 18.0 59.05N 152.43W 62 **¶97x3182**
NEIC M_L2.6(AEIC), After AEIC.
ISC X 18 22 10 57.7±.43 **61.64N**±.039 **150.25W**±.055 **58**±11 **53 0-4**
NEIC X 18 22 10 58.9 61.62N 150.30W 43 **¶97x3243**
NEIC M_L2.7(AEIC), After AEIC.
ISC X 21 10 11 58.6±.35 **61.27N**±.025 **147.51W**±.043 **25**±4.5 **73 0-6**
NEIC X 21 10 11 59.4 61.31N 147.45W 24 **¶97x3636**
NEIC M_L3.2(PMR), M_L2.9(AEIC), After AEIC.
ISC X 21 10 33 36±1.3 **59.72N**±.054 **153.6W**±.15 **161**±13 **38 0-4**
NEIC X 21 10 33 38.5 59.76N 153.50W 147 **¶97x3637**
NEIC After AEIC.
ISC X 22 00 03 36.1±.39 **60.83N**±.031 **147.50W**±.041 **28**±4.7 **71 0-5**
NEIC X 22 00 03 37.2 60.88N 147.48W 21 **¶97x3722**
NEIC M_L3.0(AEIC), After AEIC.
ISC X 22 15 22 40.3±.41 **61.49N**±.028 **146.70W**±.054 **24**±5.4 **49 0-3**
NEIC X 22 15 22 40.7 61.49N 146.70W 12 **¶97x3838**
NEIC M_L2.6(AEIC), After AEIC.
ISC X 23 06 26 41.1±.16 **61.32N**±.022 **150.35W**±.038 **65**±2.4 **4.4b 172 0-151**
NEIC X 23 06 26 42.7 61.35N 150.41W 44 4.6b **¶97x3936**
EIDC X 23 06 26 42.9 61.4N 150.7W 61 4.0b,3.3s
NEIC M_L4.4(AEIC), M_L4.3(PMR). Felt I=III MM, After AEIC.
NEIC Felt I=III MM at Anchorage, Eagle River and Palmer.
ISC X 23 23 28 36.6±.39 **61.37N**±.028 **147.31W**±.046 **29**±4.9 **62 0-3**
NEIC X 23 23 28 37.4 61.39N 147.29W 28 **¶97x4083**
NEIC M_L2.7(AEIC), After AEIC.
ISC X 24 17 54 07±1.9 **59.85N**±.079 **153.4W**±.21 **145**±17 **35 0-5**
NEIC X 24 17 54 09.8 59.89N 153.19W 125 **¶97x4206**
NEIC After AEIC.
ISC X 24 19 54 28.8±.43 **60.15N**±.034 **153.36W**±.074 **161**±5.3 **99 0-7**
NEIC X 24 19 54 30.5 60.14N 153.41W 153 **¶97x4215**
NEIC After AEIC.

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**26 00 32 29.4**±.41	**60.98N**±.036	**147.33W**±.055	**31**±4.9		**44**	**0-6**
NEIC	X	26 00 32 30.6	61.02N	147.28W	21			**¶97x4392**
NEIC	M_L3.5(AEIC), M_L3.4(PMR), After AEIC.							
ISC	**X**	**26 06 14 06.6**±.78	**61.19N**±.059	**151.29W**±.098	**85**±11		**29**	**0-5**
NEIC	X	26 06 14 08.5	61.15N	151.32W	64			**¶97x4426**
NEIC	M_L2.7(AEIC), After AEIC.							
ISC	**X**	**26 14 17 31.7**±.42	**60.91N**±.043	**147.17W**±.069	**29**±5.2		**30**	**0-4**
NEIC	X	26 14 17 32.6	60.93N	147.11W	29			**¶97x4475**
NEIC	M_L2.8(AEIC), After AEIC.							
ISC	**X**	**26 22 34 23**±1.4	**59.83N**±.058	**152.4W**±.14	**74**±18		**20**	**0-2**
NEIC	X	26 22 34 23.0	59.87N	152.38W	77			**¶97x4528**
NEIC	After AEIC.							
ISC	**X**	**29 05 28 14.6**±.79	**60.03N**±.039	**152.8W**±.10	**114**±9.3		**56**	**0-5**
NEIC	X	29 05 28 17.0	60.06N	152.85W	95			**¶97x4857**
NEIC	After AEIC.							
ISC	**X**	**30 22 41 32**±3.4	**59.8N**±.11	**153.2W**±.57	**116**±33		**13**	**0-7**
NEIC	X	30 22 41 32.3	59.81N	153.32W	116			**¶97x5099**
NEIC	After AEIC.							
ISC	**XI**	**01 11 12 39**±1.7	**59.90N**±.072	**153.4W**±.21	**128**±18		**18**	**0-4**
NEIC	XI	01 11 12 40.4	59.90N	153.32W	123			**¶97xi0070**
NEIC	After AEIC.							
ISC	**XI**	**01 16 05 46**±1.2	**60.59N**±.071	**144.19W**±.084	**6**±13		**17**	**0-3**
NEIC	XI	01 16 05 45.9	60.63N	144.19W	0			**¶97xi0100**
NEIC	M_L2.5(AEIC), After AEIC.							
ISC	**XI**	**02 05 18 21.3**±.62	**61.75N**±.036	**151.62W**±.079	**114**±8.9		**66**	**0-5**
NEIC	XI	02 05 18 23.3	61.72N	151.68W	99			**¶97xi0198**
NEIC	After AEIC.							
ISC	**XI**	**02 20 14 17.1**±.50	**60.34N**±.031	**152.27W**±.075	**109**±6.9		**83**	**0-7**
NEIC	XI	02 20 14 19.8	60.40N	152.38W	85			**¶97xi0330**
NEIC	After AEIC.							
ISC	**XI**	**03 00 16 51.3**±.45	**59.63N**±.032	**152.67W**±.072	**107**±6.2	2.9b	**82**	**0-31**
EIDC	XI	03 00 16 49.3	59.8N	152.7W	0	4.4L		**¶97xi0360**
NEIC	XI	03 00 16 53.7	59.67N	152.72W	89			
NEIC	After AEIC.							
ISC	**XI**	**04 01 23 54.1**±.55	**59.65N**±.035	**152.39W**±.077	**86**±8.2		**63**	**0-4**
NEIC	XI	04 01 23 56.0	59.68N	152.42W	68			**¶97xi0553**
NEIC	M_L2.8(AEIC), After AEIC.							
ISC	**XI**	**04 04 58 38.1**±.28	**59.91N**±.035	**153.22W**±.087	**119**		**65**	**0-6**
NEIC	XI	04 04 58 39.0	59.94N	153.34W	119			**¶97xi0579**
NEIC	After AEIC.							
ISC	**XI**	**05 05 45 00.9**±.71	**59.94N**±.044	**153.3W**±.10	**139**±8.0		**66**	**0-6**
NEIC	XI	05 05 45 03.0	59.94N	153.33W	126			**¶97xi0737**
NEIC	After AEIC.							
ISC	**XI**	**05 08 08 26.9**±.41	**61.37N**±.036	**150.75W**±.057	**61**±9.1		**61**	**0-5**
NEIC	XI	05 08 08 28.0	61.37N	150.80W	49			**¶97xi0753**
NEIC	M_L2.5(AEIC), After AEIC.							
ISC	**XI**	**05 21 58 37.2**±.91	**59.69N**±.049	**153.1W**±.14	**120**±9.6		**45**	**0-7**
NEIC	XI	05 21 58 39.2	59.70N	153.12W	107			**¶97xi0870**
NEIC	After AEIC.							
ISC	**XI**	**06 21 06 18.8**±.54	**59.97N**±.033	**152.70W**±.080	**117**±7.0		**83**	**0-6**
NEIC	XI	06 21 06 21.3	59.98N	152.72W	97			**¶97xi1032**
NEIC	After AEIC.							
ISC	**XI**	**07 01 37 10.0**±.35	**59.90N**±.036	**152.71W**±.084	**97**±4.8	**3.8b**	**65**	**0-45**
EIDC	XI	07 01 37 07.9	59.6N	151.4W	0	3.9b,3.9L		**¶97xi1060**
NEIC	XI	07 01 37 10.9	59.89N	152.86W	100	3.9b		
NEIC	After AEIC.							
ISC	**XI**	**07 06 17 36.2**±.42	**61.02N**±.035	**146.04W**±.060	**30**±4.8		**41**	**0-5**
NEIC	XI	07 06 17 37.1	61.02N	146.10W	26			**¶97xi1087**
NEIC	M_L3.0(AEIC), After AEIC.							
ISC	**XI**	**07 07 43 54**±1.3	**59.98N**±.074	**153.0W**±.18	**118**±14		**17**	**0-5**
NEIC	XI	07 07 43 54.5	59.99N	152.98W	117			**¶97xi1095**
NEIC	After AEIC.							
ISC	**XI**	**07 14 07 28.8**±.86	**60.33N**±.040	**152.2W**±.10	**104**±11		**53**	**0-5**
NEIC	XI	07 14 07 31.1	60.33N	152.18W	84			**¶97xi1134**
NEIC	After AEIC.							
ISC	**XI**	**08 04 11 18**±1.2	**59.36N**±.066	**153.4W**±.14	**128**±12		**26**	**0-7**
NEIC	XI	08 04 11 20.8	59.46N	153.34W	109			**¶97xi1208**
NEIC	After AEIC.							
ISC	**XI**	**08 06 13 35**±1.5	**61.32N**±.072	**150.6W**±.12	**89**±18		**20**	**0-4**
NEIC	XI	08 06 13 37.8	61.29N	150.62W	61			**¶97xi1221**
NEIC	M_L2.5(AEIC), After AEIC.							
ISC	**XI**	**09 02 28 04.9**±.77	**60.04N**±.047	**153.5W**±.11	**154**±8.7		**53**	**0-7**
NEIC	XI	09 02 28 06.6	60.01N	153.56W	143			**¶97xi1386**
NEIC	After AEIC.							
ISC	**XI**	**09 22 21 16.7**±.58	**60.39N**±.042	**147.81W**±.054	**16**±6.8		**49**	**0-3**
NEIC	XI	09 22 21 17.3	60.45N	147.81W	7			**¶97xi1519**
NEIC	M_L2.7(AEIC), After AEIC.							
ISC	**XI**	**10 04 55 13**±1.0	**60.19N**±.045	**153.0W**±.13	**145**±11		**52**	**0-4**
NEIC	XI	10 04 55 16.1	60.21N	153.06W	124			**¶97xi1560**
NEIC	After AEIC.							
ISC	**XI**	**10 07 33 51.9**±.64	**60.08N**±.036	**152.22W**±.093	**98**±9.4		**51**	**0-5**
NEIC	XI	10 07 33 53.8	60.09N	152.26W	83			**¶97xi1576**
NEIC	After AEIC.							
ISC	**XI**	**10 11 34 33.8**±.27	**59.99N**±.031	**153.03W**±.075	**107**		**78**	**0-7**
NEIC	XI	10 11 34 35.1	59.95N	153.16W	107			**¶97xi1608**
NEIC	After AEIC.							
ISC	**XI**	**10 18 49 48.5**±.70	**59.73N**±.039	**153.2W**±.11	**124**±8.4		**64**	**0-6**
NEIC	XI	10 18 49 50.5	59.74N	153.19W	111			**¶97xi1656**
NEIC	After AEIC.							
ISC	**XI**	**11 00 38 50**±1.3	**60.18N**±.053	**153.1W**±.16	**123**±13		**37**	**0-4**
NEIC	XI	11 00 38 51.2	60.17N	153.14W	117			**¶97xi1700**
NEIC	After AEIC.							
ISC	**XI**	**12 06 23 30.7**±.42	**61.21N**±.031	**151.16W**±.062	**82**±8.6		**63**	**0-5**
NEIC	XI	12 06 23 32.4	61.21N	151.17W	62			**¶97xi1948**
NEIC	M_L3.1(PMR), M_L2.9(AEIC), After AEIC.							
ISC	**XI**	**13 01 20 14.4**±.86	**60.02N**±.051	**152.9W**±.12	**114**±9.6		**33**	**0-5**
NEIC	XI	13 01 20 16.4	60.03N	152.87W	100			**¶97xi2061**
NEIC	After AEIC.							
ISC	**XI**	**13 05 55 01**±1.3	**59.54N**±.066	**153.1W**±.21	**133**±14		**23**	**0-5**
NEIC	XI	13 05 55 03.9	59.55N	153.07W	114			**¶97xi2085**
NEIC	After AEIC.							
ISC	**XI**	**17 04 04 42**±1.4	**60.26N**±.064	**152.6W**±.17	**108**±16		**21**	**0-3**
NEIC	XI	17 04 04 43.7	60.23N	152.58W	93			**¶97xi2733**
NEIC	After AEIC.							
ISC	**XI**	**17 23 21 31.8**±.67	**59.99N**±.040	**153.3W**±.11	**143**±7.8		**60**	**0-7**
NEIC	XI	17 23 21 34.2	60.00N	153.27W	126			**¶97xi2874**
NEIC	After AEIC.							
ISC	**XI**	**18 08 00 04.6**±.39	**60.44N**±.043	**144.80W**±.052	**46**±11		**59**	**0-5**
NEIC	XI	18 08 00 06.0	60.54N	144.73W	23			**¶97xi2930**
NEIC	M_L2.8(AEIC), After AEIC.							
ISC	**XI**	**18 19 26 31.2**±.49	**59.39N**±.035	**152.24W**±.069	**78**±8.8		**75**	**0-7**
NEIC	XI	18 19 26 33.6	59.45N	152.32W	54			**¶97xi3049**
NEIC	M_L2.7(AEIC), After AEIC.							
ISC	**XI**	**19 02 33 27.0**±.49	**60.23N**±.031	**153.09W**±.077	**144**±6.1		**93**	**0-7**
NEIC	XI	19 02 33 29.5	60.21N	153.02W	129			**¶97xi3114**
NEIC	After AEIC.							
ISC	**XI**	**19 07 08 38.8**±.48	**59.85N**±.032	**153.13W**±.077	**128**±6.1		**89**	**0-7**
NEIC	XI	19 07 08 40.9	59.86N	153.12W	112			**¶97xi3158**
NEIC	After AEIC.							
ISC	**XI**	**19 08 41 33.9**±.94	**59.21N**±.047	**153.3W**±.12	**123**±9.6		**63**	**0-7**
NEIC	XI	19 08 41 36.3	59.26N	153.29W	108			**¶97xi3173**
NEIC	After AEIC.							
ISC	**XI**	**22 07 55 06.7**±.28	**60.36N**±.029	**153.13W**±.061	**155**±3.0	**3.8b**	**123**	**0-150**
EIDC	XI	22 07 55 07.5	60.3N	153.5W	149	3.6b		**¶97xi3833**
NEIC	XI	22 07 55 08.8	60.32N	153.06W	147	4.4b		
NEIC	After AEIC.							
ISC	**XI**	**22 17 28 40.7**±.67	**60.13N**±.039	**152.63W**±.097	**98**±8.1		**52**	**0-5**
NEIC	XI	22 17 28 42.4	60.10N	152.58W	84			**¶97xi3921**
NEIC	After AEIC.							
ISC	**XI**	**23 00 56 12.2**±.42	**59.94N**±.049	**153.2W**±.13	**122**		**32**	**0-7**
NEIC	XI	23 00 56 13.1	59.94N	153.26W	122			**¶97xi3992**
NEIC	After AEIC.							
ISC	**XI**	**25 22 06 05.4**±.95	**60.04N**±.057	**152.8W**±.13	**120**±11		**32**	**0-6**
NEIC	XI	25 22 06 06.9	60.01N	152.80W	108			**¶97xi4586**
NEIC	After AEIC.							
ISC	**XI**	**27 23 19 33**±1.7	**60.00N**±.096	**152.9W**±.16	**127**±15		**32**	**0-5**
NEIC	XI	27 23 19 35.8	60.04N	152.83W	105			**¶97xi4961**
NEIC	After AEIC.							
ISC	**XI**	**29 02 30 46.8**±.65	**61.48N**±.045	**151.27W**±.093	**83**±12		**37**	**0-5**
NEIC	XI	29 02 30 48.5	61.48N	151.31W	66			**¶97xi5177**
NEIC	M_L2.9(PMR), M_L2.6(AEIC), After AEIC.							
ISC	**XI**	**29 08 59 47.7**±.59	**60.05N**±.025	**147.70W**±.037	**28**±5.9	**4.5b**,3.8s	**122**	**0-148**
EIDC	XI	29 08 59 45.7	60.0N	148.1W	0	4.3b,3.9L		**¶97xi5228**
BJI	XI	29 08 59 45.8	59.76N	148.10W	29	4.5b		
NEIC	XI	29 08 59 49.4	60.09N	147.66W	20	4.6b		
NEIC	M_L4.9(PMR), M_L4.8(AEIC). Felt, After AEIC.							
NEIC	Felt at Anchorage, Cordova, Seward and Whittier.							
ISC	**XI**	**29 09 30 36.4**±.51	**61.40N**±.044	**150.59W**±.067	**63**±12		**41**	**0-4**
NEIC	XI	29 09 30 37.7	61.40N	150.62W	47			**¶97xi5237**
NEIC	M_L3.1(AEIC), After AEIC.							
ISC	**XI**	**30 06 27 04.8**±.71	**60.25N**±.042	**152.16W**±.091	**103**±9.6		**51**	**0-5**
NEIC	XI	30 06 27 07.0	60.28N	152.22W	83			**¶97xi5373**
NEIC	After AEIC.							
ISC	**XI**	**30 06 48 08.3**±.58	**60.12N**±.037	**153.30W**±.091	**150**±7.0		**74**	**0-6**
NEIC	XI	30 06 48 11.0	60.13N	153.27W	130			**¶97xi5376**
NEIC	After AEIC.							
ISC	**XII**	**03 17 47 27.0**±.90	**60.22N**±.051	**153.2W**±.13	**150**±9.7		**44**	**0-6**
NEIC	XII	03 17 47 28.5	60.18N	153.18W	143			**¶97xii0471**
NEIC	After AEIC.							
ISC	**XII**	**04 09 18 51**±2.0	**59.20N**±.099	**153.6W**±.24	**133**±19		**16**	**0-6**
NEIC	XII	04 09 18 53.5	59.25N	153.53W	117			**¶97xii0586**
NEIC	After AEIC.							
ISC	**XII**	**04 09 49 40**±2.4	**60.29N**±.091	**153.1W**±.19	**140**±26		**16**	**0-2**
NEIC	XII	04 09 49 42.5	60.34N	153.12W	122			**¶97xii0592**
NEIC	After AEIC.							
ISC	**XII**	**04 16 04 50**±2.1	**59.54N**±.084	**153.1W**±.19	**130**±22		**15**	**0-2**
NEIC	XII	04 16 04 53.3	59.60N	153.05W	106			**¶97xii0644**
NEIC	After AEIC.							
ISC	**XII**	**05 12 16 39.7**±.44	**61.64N**±.039	**149.50W**±.069	**32**±4.5		**38**	**0-3**
NEIC	XII	05 12 16 39.9	61.67N	149.51W	34			**¶97xii0857**
NEIC	M_L2.7(AEIC), After AEIC.							
ISC	**XII**	**05 15 54 10.6**±.44	**61.75N**±.034	**150.79W**±.069	**73**±10		**49**	**0-5**
NEIC	XII	05 15 54 11.9	61.71N	150.81W	62			**¶97xii0939**
NEIC	M_L3.4(PMR), M_L3.1(AEIC), After AEIC.							
ISC	**XII**	**06 04 05 05**±2.1	**60.15N**±.086	**153.2W**±.18	**138**±23		**18**	**0-2**
NEIC	XII	06 04 05 07.3	60.17N	153.08W	124			**¶97xii1241**
NEIC	After AEIC.							
ISC	**XII**	**06 21 04 45.8**±.39	**60.09N**±.031	**152.89W**±.068	**132**±4.8	**3.7b**	**105**	**0-53**
EIDC	XII	06 21 04 20.0±7.38	58.9N	155.0W	0	4.7L		**¶97xii1527**
NEIC	XII	06 21 04 48.4	60.12N	152.87W	110	3.6b		
EIDC	Error ellipse is semi−major=111.8km semi−minor=40.1km azimuth=86							
NEIC	After AEIC.							
ISC	**XII**	**07 18 28 40.1**±.80	**59.47N**±.061	**152.27W**±.093	**70**±11		**31**	**0-5**
NEIC	XII	07 18 28 41.5	59.49N	152.30W	60			**¶97xii1759**
NEIC	M_L2.5(AEIC), After AEIC.							
ISC	**XII**	**08 10 52 55.7**±.49	**60.63N**±.032	**152.42W**±.074	**132**±6.4		**91**	**0-7**
NEIC	XII	08 10 52 59.1	60.61N	152.37W	105			**¶97xii1915**
NEIC	After AEIC.							
ISC	**XII**	**09 02 32 27.9**±.63	**59.86N**±.039	**152.42W**±.092	**92**±8.7		**46**	**0-7**
NEIC	XII	09 02 32 29.9	59.88N	152.43W	73			**¶97xii2081**
NEIC	After AEIC.							
ISC	**XII**	**09 21 19 40.7**±.45	**59.04N**±.044	**153.8W**±.10	**111**		**51**	**0-6**
NEIC	XII	09 21 19 41.7	59.03N	154.07W	111			**¶97xii2241**
NEIC	After AEIC.							
ISC	**XII**	**09 23 58 04.0**±.39	**61.44N**±.031	**150.90W**±.056	**82**±8.8		**73**	**1-6**
NEIC	XII	09 23 58 05.8	61.43N	150.96W	62			**¶97xii2262**
NEIC	M_L3.2(AEIC), M_L2.9(PMR), After AEIC.							
ISC	**XII**	**12 09 58 04**±2.0	**59.73N**±.091	**153.1W**±.17	**116**±22		**14**	**0-3**
NEIC	XII	12 09 58 06.5	59.72N	153.07W	99			**¶97xii2727**
NEIC	After AEIC.							
ISC	**XII**	**12 10 27 44.1**±.20	**61.26N**±.024	**150.79W**±.044	**71**±3.9	**4.0b**	**109**	**1-147**
BJI	XII	12 10 27 38.5	61.20N	150.90W	61	4.5b		**¶97xii2730**
EIDC	XII	12 10 27 45.3±2.10	61.3N	151.0W	65±18.8	3.8b,3.4s		
NEIC	XII	12 10 27 45.5	61.25N	150.86W	61	4.0b		
EIDC	Error ellipse is semi−major=23.5km semi−minor=16.6km azimuth=26							
NEIC	M_L4.3(PMR), M_L4.0(AEIC). Felt, After AEIC.							
NEIC	Felt at Anchorage and Eagle River.							
ISC	**XII**	**12 22 17 09**±1.2	**60.05N**±.079	**152.8W**±.15	**128**±13		**19**	**0-6**
NEIC	XII	12 22 17 11.4	60.12N	152.79W	109			**¶97xii2829**
NEIC	After AEIC.							
ISC	**XII**	**13 15 51 16.8**±.53	**61.77N**±.047	**150.48W**±.080	**51**±16		**32**	**0-4**
NEIC	XII	13 15 51 17.9	61.77N	150.52W	42			**¶97xii2972**
NEIC	M_L2.5(AEIC), After AEIC.							
ISC	**XII**	**13 22 10 44.2**±.85	**60.14N**±.051	**153.1W**±.13	**136**±9.0		**42**	**0-6**
NEIC	XII	13 22 10 45.5	60.14N	153.11W	131			**¶97xii3028**
NEIC	After AEIC.							
ISC	**XII**	**15 03 07 28.6**±.93	**59.75N**±.049	**153.5W**±.14	**136**±9.5		**46**	**0-7**
NEIC	XII	15 03 07 29.8	59.75N	153.52W	133			**¶97xii3235**
NEIC	After AEIC.							

ISC	**XII**	**15 19 00 05**±1.6	**59.52N**±.071	**153.8W**±.20	**143**±13			**38**	**0-6**
NEIC	XII	15 19 00 07.0	59.57N	153.92W	128				¶97xii3326
NEIC	After AEIC.								
ISC	**XII**	**15 19 19 00.8**±.66	**60.12N**±.043	**152.6W**±.11	**115**±7.7			**46**	**0-18**
EIDC	XII	15 19 18 58.6±2.72	60.1N	152.2W	0	3.9L			¶97xii3329
NEIC	XII	15 19 19 03.7	60.15N	152.54W	92				
EIDC	Error ellipse is semi−major=60.2km semi−minor=19.9km azimuth=110								
NEIC	After AEIC.								
ISC	**XII**	**16 10 44 14**±1.1	**61.48N**±.073	**150.3W**±.11	**51**±22			**16**	**0-1**
NEIC	XII	16 10 44 14.5	61.46N	150.30W	48				¶97xii3438
NEIC	M_L2.7(AEIC), After AEIC.								
ISC	**XII**	**16 11 00 37**±1.4	**60.11N**±.063	**152.6W**±.14	**113**±17			**21**	**0-5**
NEIC	XII	16 11 00 38.9	60.10N	152.44W	92				¶97xii3441
NEIC	After AEIC.								
ISC	**XII**	**17 04 20 25**±1.6	**60.07N**±.058	**153.0W**±.21	**127**±16			**30**	**0-5**
NEIC	XII	17 04 20 27.5	60.10N	153.02W	110				¶97xii3548
NEIC	After AEIC.								
ISC	**XII**	**17 17 18 01.4**±.65	**61.72N**±.041	**151.72W**±.097	**114**±9.3			**41**	**0-6**
NEIC	XII	17 17 18 03.6	61.69N	151.76W	98				¶97xii3638
NEIC	After AEIC.								
ISC	**XII**	**17 19 19 34.5**±.78	**61.54N**±.060	**154.1W**±.12	**10**			**18**	**1-5**
NEIC	XII	17 19 19 34.7	61.68N	153.95W	10				¶97xii3650
NEIC	M_L2.5(AEIC), After AEIC.								
ISC	**XII**	**18 10 08 54.6**±.25	**60.18N**±.029	**152.79W**±.066	**116**			**86**	**0-7**
NEIC	XII	18 10 08 55.8	60.17N	152.88W	116				¶97xii3746
NEIC	After AEIC.								
ISC	**XII**	**18 19 03 46.8**±.68	**60.26N**±.038	**152.45W**±.092	**113**±8.5			**63**	**0-7**
NEIC	XII	18 19 03 48.6	60.28N	152.56W	100				¶97xii3806
NEIC	After AEIC.								
ISC	**XII**	**19 23 17 10.3**±.76	**59.47N**±.044	**153.2W**±.11	**113**±8.1			**67**	**0-6**
NEIC	XII	19 23 17 12.0	59.51N	153.19W	100				¶97xii4045
NEIC	After AEIC.								
ISC	**XII**	**20 12 48 04**±1.3	**59.73N**±.059	**152.7W**±.15	**118**±14			**29**	**0-6**
NEIC	XII	20 12 48 06.0	59.76N	152.74W	101				¶97xii4114
NEIC	After AEIC.								
ISC	**XII**	**22 14 58 48.3**±.92	**59.90N**±.049	**152.24W**±.094	**85**±12			**37**	**0-5**
NEIC	XII	22 14 58 49.5	59.91N	152.25W	76				¶97xii4436
NEIC	After AEIC.								
ISC	**XII**	**22 23 02 58.6**±.48	**61.34N**±.051	**152.1W**±.11	**123**±5.9	**3.7b**		**33**	**0-164**
EIDC	XII	22 23 02 57.8±.92	61.4N	152.6W	89±6.1	3.4b			¶97xii4499
NEIC	XII	22 23 03 00.5	61.28N	152.01W	115				
EIDC	Error ellipse is semi−major=26.7km semi−minor=11.5km azimuth=95								
NEIC	After AEIC.								
ISC	**XII**	**23 06 46 19.9**±.81	**60.30N**±.054	**153.1W**±.13	**151**±9.2			**39**	**0-6**
NEIC	XII	23 06 46 22.6	60.31N	153.08W	134				¶97xii4556
NEIC	After AEIC.								
ISC	**XII**	**23 13 11 13**±1.6	**59.83N**±.078	**153.5W**±.15	**146**±16			**35**	**0-6**
NEIC	XII	23 13 11 14.0	59.88N	153.55W	139				¶97xii4601
NEIC	After AEIC.								
ISC	**XII**	**23 18 54 08.3**±.78	**60.42N**±.053	**142.98W**±.076	**9**±7.0			**36**	**0-4**
NEIC	XII	23 18 54 09.0	60.46N	142.94W	7				¶97xii4642
NEIC	M_L2.9(PGC), M_L2.8(AEIC), After AEIC.								
ISC	**XII**	**23 19 08 13**±1.2	**60.00N**±.056	**153.1W**±.13	**128**±12			**32**	**0-4**
NEIC	XII	23 19 08 15.2	59.98N	152.91W	115				¶97xii4644
NEIC	After AEIC.								
ISC	**XII**	**24 05 56 30.4**±.84	**59.78N**±.051	**152.06W**±.094	**77**±12			**30**	**0-3**
NEIC	XII	24 05 56 31.8	59.81N	152.08W	65				¶97xii4714
NEIC	M_L2.6(AEIC), After AEIC.								
ISC	**XII**	**24 22 02 05.4**±.48	**59.30N**±.051	**152.52W**±.090	**72**			**32**	**0-7**
NEIC	XII	24 22 02 06.5	59.32N	152.51W	72				¶97xii4831
NEIC	After AEIC.								
ISC	**XII**	**24 22 26 08.9**±.99	**59.87N**±.069	**153.2W**±.15	**123**±9.7			**29**	**0-19**
NEIC	XII	24 22 26 10.7	59.91N	153.14W	110	2.9b			¶97xii4835
NEIC	After AEIC.								
ISC	**XII**	**25 01 52 06**±1.2	**61.85N**±.070	**151.8W**±.14	**120**±14			**34**	**1-5**
NEIC	XII	25 01 52 07.9	61.83N	151.90W	109				¶97xii4852
NEIC	After AEIC.								
ISC	**XII**	**25 10 23 59**±1.2	**60.28N**±.065	**152.5W**±.16	**124**±13			**27**	**0-5**
NEIC	XII	25 10 24 01.0	60.30N	152.59W	109				¶97xii4909
NEIC	After AEIC.								
ISC	**XII**	**25 12 39 18**±1.0	**61.54N**±.045	**152.0W**±.10	**6**±8.1			**27**	**0-4**
NEIC	XII	25 12 39 18.6	61.48N	151.95W	13				¶97xii4930
NEIC	M_L2.8(AEIC), After AEIC.								
ISC	**XII**	**27 04 26 19.5**±.58	**61.54N**±.052	**141.08W**±.094	**0**			**28**	**1-8**
PGC	XII	27 04 26 19.8	61.6N	141.1W	0	3.2L			¶97xii5245
NEIC	XII	27 04 26 19.9	61.55N	141.42W	0				
PGC	Wrangell Mountains, Alaska.								
NEIC	M_L3.3(AEIC), After AEIC.								
ISC	**XII**	**27 04 37 28.4**±.23	**61.66N**±.029	**141.03W**±.046	**0**	**4.4b,3.6s**		**93**	**1-152**
PGC	XII	27 04 37 29.2	61.6N	141.0W	0	4.5L			¶97xii5247
NEIC	XII	27 04 37 29.7	61.54N	141.24W	0	4.5b			
EIDC	XII	27 04 37 30.4±.71	61.7N	141.1W	0	4.3b,4.0L			
PGC	Wrangell Mountains, Alaska.								
NEIC	M_L4.3(PMR), M_L4.2(AEIC), After AEIC.								
EIDC	Error ellipse is semi−major=19.7km semi−minor=10.3km azimuth=39								
ISC	**XII**	**27 10 01 51.4**±.91	**61.54N**±.061	**141.1W**±.15	**0**			**16**	**1-3**
NEIC	XII	27 10 01 52.0	61.55N	141.49W	0				¶97xii5277
NEIC	M_L2.5(AEIC), After AEIC.								
ISC	**XII**	**28 23 04 14.4**±.70	**59.18N**±.070	**152.2W**±.14	**50**			**11**	**0-3**
NEIC	XII	28 23 04 14.8	59.19N	152.12W	50				¶97xii5510
NEIC	M_L2.7(AEIC), After AEIC.								
ISC	**XII**	**29 16 37 14**±2.4	**59.4N**±.10	**153.8W**±.24	**134**±21			**17**	**0-2**
NEIC	XII	29 16 37 17.3	59.39N	153.78W	113				¶97xii5613
NEIC	After AEIC.								
ISC	**XII**	**30 00 58 07.1**±.62	**61.22N**±.041	**150.64W**±.072	**70**±12			**37**	**1-4**
NEIC	XII	30 00 58 08.2	61.16N	150.67W	61				¶97xii5665
NEIC	M_L2.8(AEIC), After AEIC.								
ISC	**XII**	**30 14 28 59.7**±.78	**60.47N**±.052	**152.3W**±.13	**127**±9.2			**36**	**0-18**
NEIC	XII	30 14 29 01.9	60.49N	152.32W	109	3.0b			¶97xii5746
NEIC	After AEIC.								
ISC	**XII**	**30 16 46 02.2**±.61	**61.67N**±.058	**141.0W**±.11	**0**			**17**	**1-3**
PGC	XII	30 16 46 03.4	61.6N	141.1W	0	3.0L			¶97xii5760
NEIC	XII	30 16 46 03.7	61.55N	141.43W	0				
PGC	Wrangell Mountains, Alaska.								
NEIC	M_L2.7(AEIC), After AEIC.								
ISC	**XII**	**30 23 59 42**±1.5	**60.04N**±.068	**153.1W**±.16	**136**±16			**27**	**0-2**
NEIC	XII	30 23 59 43.3	60.05N	153.06W	128				¶97xii5800
NEIC	After AEIC.								
ISC	**XII**	**31 03 14 40.9**±.43	**60.05N**±.040	**147.64W**±.060	**17**			**42**	**0-16**
NEIC	XII	31 03 14 43.0	60.11N	147.65W	17				¶97xii5828
NEIC	M_L3.4(PMR), M_L3.2(AEIC), After AEIC.								
ISC	**XII**	**31 17 49 17.7**±.58	**61.53N**±.058	**141.1W**±.10	**10**			**25**	**1-8**
NEIC	XII	31 17 49 17.7	61.50N	141.34W	0				¶97xii5935
PGC	XII	31 17 49 18.0	61.6N	141.1W	10	3.4L			
NEIC	M_L3.3(PMR), M_L3.1(AEIC), After AEIC.								
PGC	Wrangell Mountains, Alaska.								
ISC	**XII**	**31 18 43 35.0**±.59	**61.70N**±.058	**141.1W**±.11	**5**			**15**	**1-7**
PGC	XII	31 18 43 36.6	61.6N	141.1W	5	3.4L			¶97xii5948
NEIC	XII	31 18 43 38.0	61.46N	141.44W	0				
PGC	Wrangell Mountains, Alaska.								
NEIC	M_L2.7(AEIC), After AEIC.								
ISC	**XII**	**31 22 04 08**±1.4	**60.42N**±.069	**152.6W**±.16	**126**±16			**20**	**0-5**
NEIC	XII	31 22 04 10.5	60.36N	152.52W	103				¶97xii5981
NEIC	After AEIC.								

(4) Komandorsky Islands region.

ISC	**VII**	**13 16 13 21.3**±.45	**54.16N**±.097	**169.24E**±.085	**11**	**3.6b**		**26**	**3-83**
EIDC	VII	13 16 13 21.9	54.3N	169.3E	0	3.6b			¶97vii1994
KRSC	VII	13 16 13 22.7	53.72N	169.01E	11	4.2b			
NEIC	VII	13 16 13 24.4	54.23N	169.29E	33	3.7b			
NEIC	Less reliable solution.								
ISC	**VII**	**23 05 55 50**±1.4	**55.7N**±.14	**164.9E**±.19	**64**			**8**	**1-5**
KRSC	VII	23 05 55 50.3	55.75N	164.93E	64	3.9b			¶97vii3487
ISC	**VIII**	**02 12 11 26.0**±.58	**55.63N**±.093	**164.6E**±.12	**36**	**3.8b**		**18**	**1-67**
EIDC	VIII	02 12 11 22.8	56.1N	164.3E	0	3.9b,2.9s			¶97viii0213
KRSC	VIII	02 12 11 26.0	55.56N	164.63E	36	4.1b			
ISC	**VIII**	**12 02 52 11**±1.8	**55.90N**±.070	**164.0E**±.12	**18**±15	**4.0b**		**25**	**1-83**
EIDC	VIII	12 02 52 10.2	56.1N	164.0E	0	4.0b			¶97viii1668
KRSC	VIII	12 02 52 11.7	55.85N	163.84E	14	4.1b			
NEIC	VIII	12 02 52 13.4	56.12N	164.03E	33				
NEIC	Less reliable solution.								
KRSC	**VIII**	**14 22 00 02.9**	**55.37N**	**166.59E**	**12**	**3.8b**			**¶97viii2120**
KRSC	**VIII**	**16 14 53 33.9**	**54.19N**	**167.54E**	**21**	**3.9b**			**¶97viii2387**
ISC	**VIII**	**26 20 29 10.4**±.91	**55.4N**±.12	**166.2E**±.16	**21**	**3.8b**,2.5s		**17**	**0-83**
KRSC	VIII	26 20 29 09.4	55.44N	166.45E	21	4.3b			¶97viii3900
EIDC	VIII	26 20 29 10.7	55.5N	166.8E	0	3.9b,3.1s			
NEIC	VIII	26 20 29 13.9	55.50N	166.64E	33				
NEIC	Poor solution.								
ISC	**IX**	**02 16 25 40**±3.6	**54.29N**±.084	**164.4E**±.11	**5**±23	**4.2b**		**25**	**1-82**
NEIC	IX	02 16 25 43.8	54.35N	164.41E	33	4.1b			¶97ix0302
KRSC	IX	02 16 25 44.2	54.31N	164.21E	41	4.2b			
EIDC	IX	02 16 25 46.3	54.3N	164.4E	36	3.8b			
NEIC	Less reliable solution.								
ISC	**IX**	**04 22 13 47.1**±.60	**55.3N**±.13	**166.5E**±.13	**30**	**3.8b**		**21**	**0-66**
KRSC	IX	04 22 13 45.3	55.35N	166.69E	30	4.3b			¶97ix0640
EIDC	IX	04 22 13 46.5	55.4N	166.9E	0	3.8b			
NEIC	IX	04 22 13 49.3	55.29N	167.00E	33				
NEIC	Single network solution.								
ISC	**IX**	**04 22 17 52**±2.3	**55.46N**±.073	**166.44E**±.067	**11**±15	**4.3b,4.0s**		**68**	**0-144**
EIDC	IX	04 22 17 52.5	55.5N	166.5E	0	4.3b,3.8s			¶97ix0641
BJI	IX	04 22 17 53.4	55.40N	166.50E	33	4.7b,4.7s			
KRSC	IX	04 22 17 54.3	55.35N	166.50E	26	4.8b			
MOS	IX	04 22 17 54.8	55.4N	166.5E	33	4.6b			
NEIC	IX	04 22 17 55.4	55.45N	166.53E	33	4.4b			
NEIC	M_L4.4(PMR).								
ISC	**IX**	**07 08 08 41.5**±.87	**55.0N**±.37	**165.7E**±.32	**54**	**3.7b**		**11**	**0-67**
KRSC	IX	07 08 08 34.7	55.70N	166.17E	54	3.8b			¶97ix1028
EIDC	IX	07 08 08 53.4	54.3N	170.3E	14	3.6b			
ISC	**IX**	**08 13 49 06.3**±.55	**55.53N**±.081	**165.75E**±.098	**33**	**3.7b**		**23**	**0-83**
KRSC	IX	08 13 49 00.4	55.70N	166.45E	66	4.2b			¶97ix1228
EIDC	IX	08 13 49 05.1	55.0N	166.9E	0	3.8b,3.3s			
NEIC	IX	08 13 49 08.3	55.09N	166.81E	33				
NEIC	Less reliable solution.								
ISC	**IX**	**08 23 00 49**±1.2	**55.6N**±.14	**165.4E**±.18	**51**	**3.5b**		**11**	**0-67**
EIDC	IX	08 23 00 37.7	57.4N	161.1E	0	3.6b			¶97ix1292
KRSC	IX	08 23 00 42.5	55.72N	166.38E	51	4.0b			
ISC	**IX**	**14 07 57 58**±1.5	**55.92N**±.071	**164.66E**±.073	**19**±13	**4.1b**		**45**	**1-90**
KRSC	IX	14 07 57 57.4	55.89N	164.58E	9	4.2b			¶97ix2089
NEIC	IX	14 07 58 00.1	56.06N	164.69E	33	4.2b			
MOS	IX	14 07 58 01.4	56.2N	164.8E	33	4.1b			
EIDC	IX	14 07 58 01.8	56.0N	164.7E	34	3.9b			
KRSC	**IX**	**14 18 07 18.6**	**53.66N**	**166.50E**	**40**	**3.7b**			**¶97ix2154**
ISC	**X**	**05 07 38 05**±1.6	**55.9N**±.14	**164.8E**±.20	**25**			**9**	**1-5**
KRSC	X	05 07 38 03.7	56.07N	164.89E	25	4.0b			¶97x0825
KRSC	**X**	**06 03 38 35.2**	**54.98N**	**165.64E**	**20**	**3.8b**			**¶97x0978**
ISC	**X**	**21 08 58 24**±1.0	**55.24N**±.093	**164.1E**±.15	**42**±19	**3.5b**		**14**	**1-83**
KRSC	X	21 08 58 24.5	55.27N	164.03E	40	4.3b			¶97x3627
EIDC	X	21 08 58 30.2	56.0N	166.1E	0	3.6b			
ISC	**X**	**26 18 36 49.6**±.36	**55.07N**±.077	**166.02E**±.068	**29**	**4.3b**,3.6s		**62**	**0-145**
NEIC	X	26 18 36 48.6	54.88N	166.31E	23	4.4b			¶97x4512
KRSC	X	26 18 36 49.0	55.17N	165.92E	29	4.6b			
MOS	X	26 18 36 49.4	55.0N	166.1E	33	4.5b			
BJI	X	26 18 36 50.1	54.94N	166.29E	21	4.9b			
EIDC	X	26 18 36 50.4	54.8N	166.3E	21	4.1b,4.5L			
KRSC	**XI**	**13 02 59 39.3**	**54.26N**	**168.69E**	**19**	**4.3b**			**¶97xi2070**
ISC	**XI**	**21 17 07 55**±1.2	**54.7N**±.12	**164.7E**±.17	**40**			**11**	**1-4**
KRSC	XI	21 17 07 55.8	54.62N	164.59E	40	3.7b			¶97xi3690
KRSC	**XII**	**02 20 08 15.6**	**54.55N**	**164.40E**	**40**	**3.9b**			**¶97xii0305**
ISC	**XII**	**10 12 07 51**±1.2	**54.8N**±.56	**164.3E**±.65	**33**	**3.7b**		**5**	**26-68**
EIDC	XII	10 12 07 47.9±1.13	54.6N	164.6E	0	3.8b			¶97xii2345
EIDC	Error ellipse is semi−major=88.7km semi−minor=19.7km azimuth=149								
ISC	**XII**	**10 12 59 31.6**±.81	**55.0N**±.12	**166.2E**±.13	**22**	**3.5b**		**15**	**0-67**
KRSC	XII	10 12 59 32.9	55.03N	166.04E	22	3.9b			¶97xii2357
EIDC	XII	10 12 59 38.2±2.65	55.0N	168.5E	0	3.6b			
NEIC	XII	10 12 59 40.6	54.84N	168.44E	33	3.4b			
EIDC	Error ellipse is semi−major=81.1km semi−minor=28.5km azimuth=3								
NEIC	Poor solution.								
ISC	**XII**	**20 00 57 35**±1.0	**56.07N**±.099	**164.4E**±.13	**5**	3.0b		**12**	**1-39**
KRSC	XII	20 00 57 35.4	56.13N	164.27E	5	3.7b			¶97xii4060
ISC	**XII**	**21 14 10 56**±3.5	**54.2N**±.70	**166.5E**±.37	**33**	**3.6b**		**4**	**25-67**
EIDC	XII	21 14 10 58.8±4.17	54.2N	166.5E	44±18.4	3.5b			¶97xii4260
ISC	Poorly determined								
EIDC	Error ellipse is semi−major=96.7km semi−minor=30.6km azimuth=2								
ISC	**XII**	**22 13 15 52**±1.3	**53.0N**±.23	**165.8E**±.39	**33**	**3.8b**		**7**	**26-81**
EIDC	XII	22 13 15 49.9	53.0N	165.8E	0	3.9b			¶97xii4426
EIDC	Origin time error = 15.88Error ellipse is semi−major=349.2km semi−minor=36.0km azimuth=2								
KRSC	**XII**	**28 23 55 05.4**	**54.49N**	**168.18E**	**24**	**4.0b**			**¶97xii5514**

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(5) Near Islands.						
ISC	**VII 09 08 02 13**±4.1	**52.6N**±.49	**171.4E**±.56	**33**	**3.4b**	**6**	**2-64**
NEIC	VII 09 08 02 12.4	52.49N	171.35E	33			**¶97vii1298**
EIDC	VII 09 08 02 19.9	53.0N	172.7E	22	3.3b		
NEIC	Poor solution.						
NEIC	**VII 13 13 27 10.9**	**51.64N**	**173.53E**	**33**			**1-63**
EIDC	VII 13 13 27 05.8	51.8N	172.9E	0	3.4b		**¶97vii1972**
NEIC	Poor solution.						
ISC	**VII 14 01 03 40**±1.7	**52.1N**±.29	**172.7E**±.16	**33**	**3.9b**	**15**	**1-78**
EIDC	VII 14 01 03 37.4	52.2N	172.8E	0	3.8b		**¶97vii2052**
NEIC	VII 14 01 03 39.9	52.07N	172.74E	33	3.8b		
NEIC	Less reliable solution.						
ISC	**VII 22 15 08 25**±3.3	**52.52N**±.092	**172.35E**±.073	**7**±20	**4.5b,4.3s**	**78**	**1-146**
EIDC	VII 22 15 08 25.5	52.6N	172.3E	0	4.4b,3.8s		**¶97vii3388**
BJI	VII 22 15 08 28.6	52.50N	172.40E	33	4.9b		
NEIC	VII 22 15 08 28.6	52.50N	172.43E	33	4.4b		
MOS	VII 22 15 08 28.7	52.4N	172.4E	33	4.8b		
NEIC	M_{L}4.0(PMR).						
ISC	**VII 23 08 54 37**±3.2	**52.3N**±.49	**171.3E**±.34	**33**	**3.6b**	**7**	**2-64**
EIDC	VII 23 08 54 33.1	52.2N	170.7E	0	3.7b		**¶97vii3505**
NEIC	VII 23 08 54 37.0	52.40N	171.28E	33			
NEIC	Poor solution.						
ISC	**VIII 13 05 20 39.8**±.62	**51.9N**±.13	**170.7E**±.12	**34**±2.7*	**4.1b**	**35**	**2-145**
NEIC	VIII 13 05 20 39.3	51.87N	170.70E	33	4.4b		**¶97viii1856**
EIDC	VIII 13 05 20 40.7	52.0N	170.5E	34	3.9b		
NEIC	Less reliable solution.						
ISC	**VIII 19 14 35 58.3**±.70	**53.3N**±.19	**170.34E**±.098	**33**	**3.7b**	**12**	**2-83**
EIDC	VIII 19 14 35 56.3	53.7N	170.5E	0	3.6b,2.6s		**¶97viii2820**
KRSC	VIII 19 14 35 59.2	53.27N	169.81E	0	4.0b		
NEIC	VIII 19 14 35 59.7	53.66N	170.66E	33	4.1b		
NEIC	Less reliable solution.						
ISC	**VIII 22 17 17 50**±1.8	**51.1N**±.30	**174.9E**±.19	**33**	**4.1b**,2.9s	**17**	**5-65**
NEIC	VIII 22 17 17 49.5	51.11N	174.87E	33	4.3b		**¶97viii3254**
EIDC	VIII 22 17 18 12.5	54.1N	174.4E	63	3.8b,3.1s		
NEIC	Less reliable solution.						
ISC	**IX 02 23 45 26**±3.2	**52.6N**±.56	**172.3E**±.31	**33**	**3.6b**	**8**	**1-77**
EIDC	IX 02 23 45 23.2	52.6N	172.3E	0	3.6b		**¶97ix0352**
NEIC	IX 02 23 45 28.2	53.00N	172.70E	33			
NEIC	Poor solution.						
ISC	**IX 20 17 22 27.5**±.71	**52.0N**±.16	**172.0E**±.15	**33**	**3.7b**	**14**	**1-82**
EIDC	IX 20 17 22 24.5	51.9N	172.0E	0	3.7b		**¶97ix2973**
BJI	IX 20 17 22 27.3	52.00N	172.00E	33	4.9b		
NEIC	IX 20 17 22 27.3	51.96N	172.05E	33	4.4b		
NEIC	Less reliable solution.						
ISC	**X 04 01 38 10.5**±.26	**52.83N**±.056	**171.42E**±.043	**33**	**4.8b,4.3s**	**173**	**2-145**
BJI	X 04 01 38 08.8	53.41N	171.12E	16	4.9b,4.6s		**¶97x0556**
MOS	X 04 01 38 09.6	52.7N	171.4E	33	5.2b,4.4s		
NEIC	X 04 01 38 10.3	52.85N	171.45E	33	4.9b,4.2s		
EIDC	X 04 01 38 12.0	52.9N	171.3E	32	4.4b,4.1s		
NEIC	M_{L}4.5(PMR).						
ISC	**X 11 21 00 08**±5.1	**51.5N**±.19	**174.9E**±.16	**33**±34	**4.2b**	**14**	**1-67**
EIDC	X 11 21 00 05.2	51.6N	174.8E	0	4.0b,4.4L		**¶97x1941**
NEIC	X 11 21 00 07.4	51.45N	174.80E	33	4.5b		
NEIC	Less reliable solution.						
ISC	**X 14 05 54 06**±2.0	**51.5N**±.13	**174.64E**±.095	**37**±16	**4.3b**	**36**	**1-84**
EIDC	X 14 05 54 02.9	51.6N	174.5E	0	4.2b,5.0L		**¶97x2345**
BJI	X 14 05 54 05.2	51.40N	174.60E	33	4.8b		
NEIC	X 14 05 54 05.2	51.41N	174.62E	33	4.3b		
ISC	**X 28 10 41 34**±3.0	**52.7N**±.17	**170.8E**±.26	**42**±28	**3.7b**	**11**	**2-77**
NEIC	X 28 10 41 35.3	53.06N	170.91E	33			**¶97x4745**
EIDC	X 28 10 41 39.5	53.2N	171.0E	46	3.4b		
NEIC	Poor solution.						
ISC	**XI 08 20 03 35**±1.2	**52.1N**±.20	**173.8E**±.21	**33**	**3.7b**	**9**	**1-144**
NEIC	XI 08 20 03 34.9	52.07N	173.77E	33			**¶97xi1343**
EIDC	XI 08 20 03 57.7	52.9N	173.9E	216	3.1b		
NEIC	Less reliable solution.						
ISC	**XI 14 08 52 50**±8.8	**52.8N**±.19	**171.3E**±.32	**23**±62	**3.9b**	**11**	**2-79**
EIDC	XI 14 08 52 48.1	52.7N	171.3E	0	3.9b		**¶97xi2262**
NEIC	XI 14 08 52 51.0	52.79N	171.26E	33			
NEIC	Less reliable solution.						
ISC	**XI 14 19 30 53**±1.5	**52.9N**±.19	**173.0E**±.19	**64**±15	**3.8b**	**12**	**1-145**
NEIC	XI 14 19 30 50.1	53.04N	172.83E	33			**¶97xi2342**
EIDC	XI 14 19 30 51.7	52.8N	173.1E	38	3.6b		
NEIC	Less reliable solution.						
ISC	**XI 26 17 44 14**±3.1	**51.8N**±.16	**174.7E**±.12	**35**±26	**4.0b**,3.8s	**23**	**1-83**
EIDC	XI 26 17 44 10.6	51.7N	174.6E	0	3.9b,3.8s		**¶97xi4724**
BJI	XI 26 17 44 12.1	51.67N	174.63E	33	4.6b		
NEIC	XI 26 17 44 13.7	51.74N	174.56E	33	4.3b		
ISC	**XII 04 01 31 02.6**±.91	**53.1N**±.16	**170.9E**±.22	**33**	**3.7b**	**9**	**2-83**
EIDC	XII 04 01 30 59.1±.96	53.1N	170.8E	0	3.7b		**¶97xii0530**
NEIC	XII 04 01 31 02.5	53.07N	170.92E	33			
EIDC	Error ellipse is semi−major=39.9km semi−minor=20.7km azimuth=141						
NEIC	Less reliable solution.						
	(6) Rat Islands.						
ISC	**VII 04 04 52 17**±1.6	**51.2N**±.11	**178.74E**±.081	**39**±14	**4.2b**	**45**	**3-150**
EIDC	VII 04 04 52 12.2	51.1N	178.9E	0	4.1b		**¶97vii0500**
BJI	VII 04 04 52 14.7	50.97N	178.76E	35			
NEIC	VII 04 04 52 15.7	51.17N	178.79E	33	4.3b		
ISC	**VII 04 05 00 14**±3.7	**51.1N**±.41	**178.5E**±.57	**33**	**3.4b**	**5**	**3-60**
EIDC	VII 04 05 00 01.2	51.0N	176.4E	0	3.5b		**¶97vii0501**
NEIC	VII 04 05 00 13.5	51.10N	178.52E	33			
NEIC	Poor solution.						
ISC	**VII 12 12 52 52**±4.1	**51.4N**±.49	**175.4E**±.52	**33**	**3.4b**	**6**	**2-62**
NEIC	VII 12 12 52 51.8	51.39N	175.43E	33			**¶97vii1817**
EIDC	VII 12 12 53 02.7	51.8N	176.9E	45	3.2b		
NEIC	Poor solution.						
ISC	**VII 17 14 19 50**±1.1	**51.98N**±.096	**178.93E**±.086	**114**±10	**4.1b**	**42**	**3-150**
BJI	VII 17 14 19 47.3	51.90N	178.84E	100	4.7b		**¶97vii2605**
NEIC	VII 17 14 19 48.4	51.97N	178.93E	100	4.3b		
EIDC	VII 17 14 19 54.0	52.0N	179.1E	139	3.8b,3.1s		
ISC	**VII 18 02 47 05**±2.8	**51.4N**±.28	**178.5E**±.22	**39**±27	**3.7b**	**8**	**3-60**
EIDC	VII 18 02 47 01.9	51.3N	178.6E	0	3.8b		**¶97vii2681**
NEIC	VII 18 02 47 04.7	51.40N	178.50E	33			
NEIC	Less reliable solution.						
ISC	**VIII 07 08 21 47**±4.1	**50.4N**±.40	**178.0E**±.26	**56**±29	**3.8b**	**10**	**3-68**
NEIC	VIII 07 08 21 44.3	50.28N	178.13E	33			**¶97viii0908**
EIDC	VIII 07 08 21 47.5	50.4N	178.0E	40	3.5b		
NEIC	Poor solution.						
ISC	**VIII 10 12 17 47**±1.4	**51.8N**±.16	**177.9E**±.14	**82**±13	**3.4b**	**12**	**3-84**
NEIC	VIII 10 12 17 45.9	51.80N	177.93E	66			**¶97viii1391**
EIDC	VIII 10 12 17 47.2	51.9N	177.9E	63	3.3b		
NEIC	Less reliable solution.						
ISC	**VIII 29 19 49 07**±1.5	**51.6N**±.13	**179.5E**±.10	**57**±13	**4.1b**	**23**	**2-150**
EIDC	VIII 29 19 49 00.2	51.3N	179.6E	0	4.1b		**¶97viii4371**
NEIC	VIII 29 19 49 03.6	51.36N	179.53E	33	3.9b		
NEIC	Less reliable solution.						
ISC	**VIII 30 21 01 40.3**±.50	**51.8N**±.13	**179.00E**±.095	**33**	**4.0b**,3.0s	**24**	**3-90**
NEIC	VIII 30 21 01 40.2	51.88N	179.02E	33	4.6b		**¶97viii4533**
EIDC	VIII 30 21 01 42.6	51.7N	179.1E	46	3.7b,3.0s		
NEIC	Less reliable solution.						
ISC	**VIII 31 16 28 03**±1.7	**52.2N**±.17	**175.1E**±.13	**48**±15	**3.6b**	**12**	**1-84**
EIDC	VIII 31 16 27 58.4	52.2N	175.1E	0	3.5b		**¶97viii4679**
NEIC	VIII 31 16 28 01.4	52.09N	175.10E	33			
NEIC	Less reliable solution.						
ISC	**IX 04 22 36 37**±2.9	**51.2N**±.33	**176.6E**±.17	**52**±16	**3.7b**,2.7s	**13**	**2-68**
NEIC	IX 04 22 36 34.1	51.05N	176.50E	33	3.8b		**¶97ix0645**
EIDC	IX 04 22 36 35.0	51.9N	176.8E	0	3.7b,2.6s		
NEIC	Poor solution.						
ISC	**IX 05 00 55 30**±2.8	**51.2N**±.17	**179.2E**±.19	**44**±24	**3.9b**	**16**	**3-150**
EIDC	IX 05 00 55 25.1	51.1N	179.2E	0	3.8b		**¶97ix0662**
NEIC	IX 05 00 55 28.5	51.21N	179.14E	33	4.1b		
NEIC	Less reliable solution.						
ISC	**IX 13 19 32 37**±4.2	**50.4N**±.13	**177.7E**±.11	**30**±30	**4.0b,3.5s**	**26**	**3-150**
EIDC	IX 13 19 32 33.9	50.3N	177.7E	0	4.1b,3.5s		**¶97ix2026**
NEIC	IX 13 19 32 37.2	50.38N	177.68E	33			
ISC	**IX 14 05 14 26**±1.1	**52.14N**±.074	**175.66E**±.072	**77**±9.6	**4.3b**	**66**	**1-148**
BJI	IX 14 05 14 24.9	52.10N	175.60E	70	4.7b		**¶97ix2072**
NEIC	IX 14 05 14 24.9	52.13N	175.67E	70	4.5b		
MOS	IX 14 05 14 25.1	52.1N	175.6E	74	5.0b		
EIDC	IX 14 05 14 26.3	52.1N	175.6E	69	4.0b		
ISC	**IX 16 13 56 40**±3.4	**50.6N**±.48	**175.1E**±.35	**33**	**3.6b**	**7**	**5-80**
EIDC	IX 16 13 56 40.4	51.5N	174.5E	0	3.6b		**¶97ix2396**
ISC	**IX 24 05 27 58**±2.0	**51.4N**±.24	**178.5E**±.17	**46**±19	**3.8b**	**7**	**3-84**
EIDC	IX 24 05 27 53.7	51.2N	178.8E	0	3.8b		**¶97ix3527**
NEIC	IX 24 05 27 56.6	51.21N	178.51E	33			
NEIC	Poor solution.						
ISC	**IX 26 13 21 14**±4.3	**51.1N**±.15	**178.8E**±.11	**17**±31	**3.9b**	**21**	**3-84**
EIDC	IX 26 13 21 12.3	51.0N	178.8E	0	3.8b,4.6L		**¶97ix4016**
NEIC	IX 26 13 21 15.5	51.12N	178.78E	33	3.9b		
NEIC	M_{L}4.4(PMR), Less reliable solution.						
ISC	**XI 16 03 00 39**±5.4	**51.7N**±.11	**177.2E**±.10	**11**±33	**4.2b**,4.1s	**34**	**2-149**
BJI	XI 16 03 00 41.2	51.86N	176.73E	33	4.7b,5.3s		**¶97xi2586**
EIDC	XI 16 03 00 41.5	51.8N	177.3E	18	4.0b,3.6s		
NEIC	XI 16 03 00 41.6	51.79N	177.19E	33	4.2b		
EIDC	Multiple, mixed az						
NEIC	Less reliable solution.						
ISC	**XII 05 23 36 10**±1.5	**52.0N**±.11	**175.33E**±.078	**44**±13	**4.5b**,3.9s	**51**	**1-148**
BJI	XII 05 23 36 07.6	52.09N	175.17E	25	4.9b,5.4s		**¶97xii1151**
NEIC	XII 05 23 36 08.7	51.92N	175.29E	33	4.8b		
EIDC	XII 05 23 36 10.3±.61	52.0N	175.3E	30±4.8	4.0b,3.9s		
EIDC	Error ellipse is semi−major=21.3km semi−minor=12.5km azimuth=165						
EIDC	**XII 10 11 44 14.9**	**51.4N**	**177.0E**	**0**	**3.4b**,4.0s		**4-61**
							¶97xii2339
EIDC	Origin time error = 11.87Error ellipse is semi−major=254.7km semi−minor=60.7km azimuth=86						
ISC	**XII 10 20 20 45**±2.2	**52.1N**±.44	**178.0E**±.31	**119**	**3.6b**	**5**	**22-60**
EIDC	XII 10 20 20 47.3	52.2N	178.0E	119±197.8	3.3b		**¶97xii2422**
EIDC	Origin time error = 21.88Error ellipse is semi−major=114.3km semi−minor=25.3km azimuth=174						
ISC	**XII 11 11 57 30**±3.0	**53.2N**±.56	**176.6E**±.38	**33**	**3.5b**	**5**	**22-134**
EIDC	XII 11 11 57 27.1±2.65	53.2N	176.6E	0	3.5b		**¶97xii2556**
ISC	Poorly determined						
EIDC	Error ellipse is semi−major=69.9km semi−minor=34.3km azimuth=3LO CONF						
ISC	**XII 17 04 38 52**±1.4	**51.17N**±.032	**178.83E**±.028	**22**±9.7	**5.7b,6.5s**	**567**	**3-160**
BJI	XII 17 04 38 49.9	51.30N	178.93E	20	5.9b,6.6s		**¶97xii3551**
EIDC	XII 17 04 38 49.9±.48	51.2N	178.9E	0	5.4b,6.5s		
MOS	XII 17 04 38 50.8	51.3N	178.9E	14	6.1b,6.7s		
NEIC	XII 17 04 38 51.4	51.19N	178.87E	20	5.8b,6.5s		
HRVD	XII 17 04 38 58.3±.1	51.25N±.01	178.92E±.01	22			
EIDC	Error ellipse is semi−major=15.8km semi−minor=9.7km azimuth=170						
NEIC	Mw6.6(HRV), Me6.2(GS). Felt I=IV MM.						
NEIC	Radiated energy from the P−wave first−motion solution: 4.1±0.8×10^{13}Nm/23						
NEIC	Mw 6.5 (GS). Ms 6.4 (BRK). ML 6.4 (PMR). Felt I=IV MM on Adak. Mo=1.2×10^{19}Nm (PPT).						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S255°,δ20°,λ105°. NP2:ϕ_S59°,δ71°,λ85°. Principal axes: T Plg64°,Azm320°; P Plg26°,Azm153°. Two events about 1.5 seconds apart. Depths 19 and 18 km, respectively, from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s55, scale 10^{18}Nm; M_{rr}3.08; $M_{\theta\theta}$−1.40; $M_{\phi\phi}$−1.68; $M_{r\theta}$4.82; $M_{r\phi}$2.32; $M_{\theta\phi}$−0.68. Depth 20km; Principal axes: T 6.48,Plg58°,Azm338°; N −1.06,Plg5°, Azm240°; P −5.42,Plg32°,Azm147°. Best double couple: $M_0$6.0×10^{18}Nm; NP1:ϕ_S219°,δ14°, λ68°. NP2:ϕ_S62°,δ77°,λ95°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c125; Mantle waves: s44,c99; Half duration: 5s1. Moment tensor: Scale 10^{18}Nm; M_{rr}6.68±.04; $M_{\theta\theta}$−7.13±.04; $M_{\phi\phi}$0.45±.04; $M_{r\theta}$6.60±.12; $M_{r\phi}$2.21±.11; $M_{\theta\phi}$−1.51±.04. Principal Axes: T 9.6,Plg67°,Azm335°; N 0.7,Plg4°,Azm75°; P −10.2,Plg22°,Azm167°. Best double couple: $M_0$9.9×10^{18}Nm, NP1:ϕ_S266°,δ23°,λ101°. NP2:ϕ_S73°,δ67°,λ85°.						
ISC	**XII 17 05 44 58.9**±.89	**52.4N**±.23	**179.4E**±.15	**33**	**3.9b**	**10**	**2-121**
NEIC	XII 17 05 44 54.7	51.25N	179.13E	33	4.3b		**¶97xii3559**
EIDC	XII 17 05 45 55.0±9.18	52.8N	179.5W	580±102.5	2.7b		
NEIC	Poor solution.						
EIDC	Error ellipse is semi−major=48.2km semi−minor=45.7km azimuth=87						
ISC	**XII 17 08 31 33**±1.7	**52.0N**±.49	**179.1E**±.18	**33**	**3.8b**	**7**	**3-60**
NEIC	XII 17 08 31 29.2	51.04N	178.93E	33	4.1b		**¶97xii3579**
EIDC	XII 17 08 31 38.9±1.47	51.9N	178.6W	0	3.7b		
NEIC	Poor solution.						
EIDC	Error ellipse is semi−major=90.2km semi−minor=25.6km azimuth=164						
ISC	**XII 17 11 45 11**±1.1	**51.21N**±.054	**179.02E**±.037	**49**±9.6	**5.0b,5.0s**	**218**	**3-150**
BJI	XII 17 11 45 08.2	51.15N	179.09E	36	5.2b,5.2s		**¶97xii3598**
NEIC	XII 17 11 45 09.0	51.21N	178.99E	33	5.0b,5.0s		
MOS	XII 17 11 45 09.1	51.1N	179.1E	33	5.7b,5.0s		
EIDC	XII 17 11 45 09.7±.54	51.2N	179.1E	30±2.7	4.6b,4.8s		
HRVD	XII 17 11 45 13.6±.6	51.15N±.07	179.51E±.14	15			
NEIC	Mw5.5(HRV)						
NEIC	Felt on Adak.						
EIDC	Error ellipse is semi−major=15.4km semi−minor=10.1km azimuth=172						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c41; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.24±.09; $M_{\theta\theta}$−1.31±.08; $M_{\phi\phi}$0.07±.09; $M_{r\theta}$1.00±.40; $M_{r\phi}$0.08±.34; $M_{\theta\phi}$−0.47±.13. Principal Axes: T 1.59,Plg70°,Azm10°; N 0.19, Plg8°,Azm257°; P −1.77,Plg18°,Azm165°. Best double couple: $M_0$1.7×10^{17}Nm, NP1: ϕ_S243°,δ28°,λ73°. NP2:ϕ_S81°,δ64°,λ99°.

ISC XII 17 18 31 28±1.8 **51.0N**±.15 **178.80E**±.096 **38**±15 **4.0b** **31 3-122**
EIDC XII 17 18 31 24.1±.85 50.9N 178.8E 0 3.8b,4.3L **¶97xii3644**
NEIC XII 17 18 31 27.4 50.98N 178.79E 33 4.6b
EIDC Error ellipse is semi−major=28.7km semi−minor=17.9km azimuth=167

ISC XII 18 06 20 30±1.9 **51.1N**±.18 **179.29E**±.085 **48**±15 **4.2b** **32 3-73**
EIDC XII 18 06 19 51.7±1.68 50.0N 172.4E 0 4.1b **¶97xii3722**
NEIC XII 18 06 20 27.5 50.95N 179.28E 33 4.2b
EIDC Error ellipse is semi−major=72.5km semi−minor=29.0km azimuth=133
NEIC Less reliable solution.

ISC XII 19 12 14 29±3.0 **51.09N**±.087 **178.93E**±.053 **31**±21 **4.6b**,3.8s **88 3-150**
BJI XII 19 12 14 27.5 51.19N 178.99E 33 4.8b **¶97xii3956**
NEIC XII 19 12 14 28.7 51.08N 178.92E 33 4.6b
EIDC XII 19 12 14 30.9±.68 51.0N 179.0E 40±5.3 4.1b,3.8s
NEIC M_{L}4.6(PMR).
EIDC Error ellipse is semi−major=17.5km semi−minor=10.9km azimuth=160

ISC XII 19 22 51 43±3.4 **51.1N**±.11 **178.97E**±.075 **29**±24 **4.2b** **55 3-150**
BJI XII 19 22 51 42.7 51.07N 178.26E 15 4.6b **¶97xii4043**
NEIC XII 19 22 51 43.3 51.12N 178.93E 33 4.2b
EIDC XII 19 22 51 43.3±.94 51.0N 179.0E 23±5.7 3.9b,3.9s
NEIC M_{L}4.5(PMR).
EIDC Error ellipse is semi−major=21.1km semi−minor=13.5km azimuth=152

ISC XII 22 01 59 21±6.4 **51.5N**±.56 **179.7E**±.56 **56**±34 **3.8b** **7 2-68**
NEIC XII 22 01 59 15.8 51.21N 179.36E 33 3.7b **¶97xii4334**
EIDC XII 22 01 59 23.3±3.77 51.4N 179.9E 65±16.4 3.5b
NEIC Poor solution.
EIDC Error ellipse is semi−major=82.9km semi−minor=39.2km azimuth=15

ISC XII 25 16 34 26±2.3 **51.7N**±.37 **179.6E**±.29 **33** **3.3b** **6 22-60**
EIDC XII 25 16 34 22.8±2.50 51.6N 179.6E 0 3.3b **¶97xii4958**
NEIC XII 25 16 34 25.9 51.64N 179.62E 33 3.1b
EIDC Error ellipse is semi−major=56.1km semi−minor=30.9km azimuth=7
NEIC Poor solution.

ISC XII 26 21 18 17±1.6 **51.29N**±.040 **178.81E**±.032 **28**±11 **5.2b,5.1s** **355 3-150**
BJI XII 26 21 18 16.8 51.31N 178.77E 31 5.5b,5.2s **¶97xii5198**
MOS XII 26 21 18 17.0 51.3N 178.8E 26 5.8b,5.3s
NEIC XII 26 21 18 17.8 51.31N 178.80E 33 5.3b,5.0s
EIDC XII 26 21 18 18.1±.54 51.3N 178.9E 27±3.0 4.8b,4.9s
HRVD XII 26 21 18 21.8±.3 51.42N±.02 178.64E±.06 32
NEIC Mw5.6(HRV), M_{L}5.4(PMR).
EIDC Error ellipse is semi−major=13.5km semi−minor=9.1km azimuth=155
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c58; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}1.84±.05; $M_{\theta\theta}$−2.10±.05; $M_{\phi\phi}$0.26±.06; $M_{r\theta}$1.96±.13; $M_{r\phi}$0.99±.12; $M_{\theta\phi}$−0.34±.07. Principal Axes: T 2.89,Plg64°,Azm318°; N 0.17, Plg11°,Azm72°; P −3.06,Plg24°,Azm167°. Best double couple: $M_0$3.0×10^{17}Nm, NP1: ϕ_S278°,δ24°,λ119°. NP2:ϕ_S68°,δ69°,λ78°.

ISC XII 29 15 39 01±1.5 **51.3N**±.11 **178.89E**±.073 **44**±13 **4.1b**,3.4s **53 3-150**
NEIC XII 29 15 38 59.3 51.24N 178.88E 33 4.2b **¶97xii5603**
EIDC XII 29 15 39 03.3±.51 51.2N 178.9E 56±3.3 3.8b,3.4s
EIDC Error ellipse is semi−major=17.1km semi−minor=10.2km azimuth=157

(7) Andreanof Islands.

ISC VII 02 08 01 29±1.8 **51.8N**±.41 **175.7W**±.21 **33** 3.2b **4 1-57**
NEIC VII 02 08 01 28.4 51.77N 175.73W 33 **¶97vii0201**
EIDC VII 02 08 01 36.0 51.7N 173.4W 0 3.3b,3.8L
ISC Poorly determined
NEIC Poor solution.

ISC VII 03 16 10 33±1.3 **51.44N**±.079 **179.38W**±.053 **59**±11 **4.4b,3.7s** **112 2-151**
BJI VII 03 16 10 28.3 51.32N 179.09W 34 4.7b,4.1s **¶97vii0428**
NEIC VII 03 16 10 29.8 51.41N 179.40W 33 4.8b
MOS VII 03 16 10 30.9 51.4N 179.4W 33 5.0b
EIDC VII 03 16 10 30.9 51.3N 179.3W 32 4.1b,3.6s

ISC VII 04 11 04 03.4±.99 **51.41N**±.044 **178.58W**±.037 **43**±8.6 **5.2b,4.4s** **308 1-155**
BJI VII 04 11 03 59.9 51.33N 178.29W 34 5.4b,4.7s **¶97vii0545**
MOS VII 04 11 04 02.1 51.4N 178.6W 33 5.5b,4.5s
NEIC VII 04 11 04 02.1 51.42N 178.58W 33 5.3b,4.4s
HRVD VII 04 11 04 05.7±.8 51.42N 178.58W 72±6.5
EIDC VII 04 11 04 06.1 51.5N 178.5W 59 4.7b,4.3s
NEIC Mw5.1(HRV).
NEIC Felt on Adak.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.95±.29; $M_{\theta\theta}$−3.42±.42; $M_{\phi\phi}$0.47±.42; $M_{r\theta}$2.59±.46; $M_{r\phi}$2.88±.66; $M_{\theta\phi}$−3.18±.51. Principal Axes: T 4.88,Plg59°,Azm278°; N 1.75, Plg21°,Azm49°; P −6.64,Plg21°,Azm148°. Best double couple: $M_0$5.8×10^{16}Nm, NP1: ϕ_S270°,δ30°,λ136°. NP2:ϕ_S41°,δ69°,λ67°.

ISC VII 08 12 11 15±1.5 **51.38N**±.035 **178.58W**±.031 **31**±11 **5.4b,5.4s** **416 1-160**
BJI VII 08 12 11 14.4 51.36N 178.60W 34 5.7b,5.6s **¶97vii1185**
NEIC VII 08 12 11 15.0 51.37N 178.58W 33 5.5b,5.4s
MOS VII 08 12 11 15.5 51.5N 178.6W 33 5.7b,5.6s
EIDC VII 08 12 11 16.2 51.5N 178.5W 31 5.0b,5.4s
HRVD VII 08 12 11 18.6±.1 51.36N±.01 178.29W±.02 36
NEIC Mw5.9(HRV), M_{L}5.6(PMR). Felt I=III MM.
NEIC Mw 5.8 (GS). Me 5.4 (GS). Felt I=III MM on Adak.
NEIC Radiated energy from the P−wave first−motion solution: 2.5±0.6×10^{12}Nm/19
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S240°,δ35°,λ110°. NP2:ϕ_S36°,δ57°,λ77°. Principal axes: T Plg74°,Azm270°; P Plg11°,Azm136°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s57, scale 10^{17}Nm; M_{rr}3.98; $M_{\theta\theta}$−5.29; $M_{\phi\phi}$1.30; $M_{r\theta}$3.42; $M_{r\phi}$2.52; $M_{\theta\phi}$0.13. Depth 22km; Principal axes: T 6.30,Plg59°,Azm300°; N 0.17,Plg23°,Azm76°; P −6.47,Plg19°,Azm174°. Best double couple: $M_0$6.4×10^{17}Nm; NP1:ϕ_S297°,δ33°,λ136°. NP2: ϕ_S66°,δ68°,λ65°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c128; Mantle waves: s7,c10; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}4.85±.06; $M_{\theta\theta}$−4.64±.08; $M_{\phi\phi}$−0.21±.07; $M_{r\theta}$3.33±.14; $M_{r\phi}$2.70±.13; $M_{\theta\phi}$−2.14±.08. Principal Axes: T 6.52,Plg68°,Azm306°; N 0.44,Plg10°,Azm61°; P −6.95,Plg19°,Azm155°. Best double couple: $M_0$6.7×10^{17}Nm, NP1:ϕ_S261°,δ27°,λ112°. NP2:ϕ_S57°,δ65°,λ79°.

ISC VII 09 00 00 07±1.2 **51.47N**±.078 **178.48W**±.058 **50**±10 **4.5b,3.2s** **107 1-151**
BJI VII 09 00 00 03.6 51.29N 178.21W 34 5.0b **¶97vii1254**
NEIC VII 09 00 00 05.0 51.43N 178.52W 33 4.5b
EIDC VII 09 00 00 06.5 51.5N 178.5W 31 4.1b,3.2s
NEIC M_{L}4.7(PMR).

ISC VII 09 08 58 22±3.3 **51.3N**±.37 **179.2W**±.54 **33** **3.4b** **6 2-59**
EIDC VII 09 08 58 17.6 51.2N 179.4W 0 3.4b **¶97vii1304**
NEIC VII 09 08 58 21.5 51.27N 179.16W 33 3.4b
NEIC Poor solution.

ISC VII 10 23 24 19±3.2 **51.4N**±.10 **179.26W**±.076 **16**±22 **4.6b**,3.7s **99 2-151**
BJI VII 10 23 24 18.5 50.99N 178.88W 37 4.8b **¶97vii1585**
NEIC VII 10 23 24 21.1 51.33N 179.23W 33 4.7b
EIDC VII 10 23 24 21.3 51.3N 179.1W 24 4.2b,3.7s

ISC VII 16 09 39 26±3.1 **51.4N**±.34 **178.6W**±.61 **33** **3.4b** **7 1-59**
EIDC VII 16 09 39 21.5 51.1N 178.7W 0 3.2b **¶97vii2414**
NEIC VII 16 09 39 25.6 51.33N 178.66W 33 4.1b
NEIC Poor solution.

ISC VII 16 18 43 33.3±.83 **51.9N**±.16 **179.1W**±.14 **33** **3.9b** **13 1-86**
EIDC VII 16 18 43 29.6 51.7N 179.1W 0 3.8b,3.6s **¶97vii2478**
NEIC VII 16 18 43 32.9 51.85N 179.06W 33 4.3b
NEIC Less reliable solution.

ISC VII 18 08 18 27±1.3 **52.1N**±.23 **175.5W**±.32 **71**±17 **3.8b** **14 1-87**
EIDC VII 18 08 18 19.3 51.8N 175.5W 0 3.7b,4.0L **¶97vii2712**
NEIC VII 18 08 18 23.9 51.80N 175.11W 33 4.3b
NEIC Less reliable solution.

ISC VII 18 09 19 58±3.4 **51.2N**±.37 **178.9W**±.64 **33** **3.4b** **6 2-59**
EIDC VII 18 09 19 37.0 50.7N 177.4E 0 3.3b **¶97vii2719**
NEIC VII 18 09 19 57.2 51.16N 178.89W 33 4.1b
NEIC Poor solution.

ISC VII 25 15 05 12±2.2 **51.33N**±.063 **179.15W**±.048 **29**±16 **4.7b,3.8s** **150 2-151**
EIDC VII 25 15 05 08.7 51.4N 179.1W 0 4.5b,3.7s **¶97vii3837**
BJI VII 25 15 05 10.2 51.33N 179.13W 28 4.8b,4.8s
NEIC VII 25 15 05 12.1 51.36N 179.18W 33 4.8b
MOS VII 25 15 05 12.5 51.3N 179.1W 33 5.1b
NEIC M_{L}4.8(PMR).

ISC VII 26 10 22 39±1.8 **51.5N**±.23 **178.5W**±.12 **55**±15 **3.7b** **14 1-82**
EIDC VII 26 10 22 33.3 51.3N 178.6W 0 3.5b **¶97vii3951**
NEIC VII 26 10 22 36.6 51.28N 178.50W 33 4.1b
NEIC Less reliable solution.

ISC VII 29 06 39 56±2.6 **51.2N**±.22 **176.4W**±.11 **57**±21 **4.1b**,4.4s **24 1-73**
EIDC VII 29 06 39 50.7 51.4N 176.5W 0 4.1b **¶97vii4392**
BJI VII 29 06 39 51.3 51.09N 176.09W 30 4.7b
NEIC VII 29 06 39 52.5 51.02N 176.34W 33 4.0b
NEIC Less reliable solution.

ISC VII 29 08 11 17.2±.47 **51.18N**±.094 **176.38W**±.079 **47**±1.6* **4.3b,3.8s** **39 1-152**
BJI VII 29 08 11 13.4 51.06N 176.17W 33 4.8b **¶97vii4403**
NEIC VII 29 08 11 15.5 51.06N 176.29W 33 4.3b
EIDC VII 29 08 11 19.0 51.3N 176.4W 45 3.9b,3.6s
NEIC M_{L}4.3(PMR).

ISC VIII 03 04 28 20±2.2 **51.9N**±.22 **177.3W**±.34 **40**±18 **3.5b** **9 0-86**
EIDC VIII 03 04 28 15.7 51.7N 177.3W 0 3.4b **¶97viii0296**
NEIC VIII 03 04 28 19.2 51.90N 177.39W 33
NEIC Less reliable solution.

ISC VIII 16 16 57 51.2±.83 **51.8N**±.25 **177.5W**±.25 **33** **3.8b** **10 1-86**
EIDC VIII 16 16 57 48.2 51.8N 177.7W 0 3.6b **¶97viii2392**
NEIC VIII 16 16 57 51.1 51.76N 177.51W 33
NEIC Less reliable solution.

EIDC VIII 21 04 11 49.8 51.0N 173.7W 0 3.6b,3.3L **2-56 ¶97viii3051**

ISC VIII 23 10 46 34±1.1 **51.3N**±.19 **176.0W**±.16 **33** **3.8b**,3.6s **9 1-73**
EIDC VIII 23 10 46 32.3 51.6N 176.3W 0 3.7b,3.6s **¶97viii3392**
NEIC VIII 23 10 46 33.9 51.32N 176.02W 33 4.1b
NEIC Less reliable solution.

ISC VIII 26 01 36 51±4.0 **51.2N**±.29 **178.1W**±.86 **33** **3.6b** **7 1-58**
NEIC VIII 26 01 36 48.4 51.31N 178.47W 33 3.9b **¶97viii3768**
EIDC VIII 26 01 36 50.0 50.6N 176.7E 257 3.0b
NEIC Poor solution.

ISC VIII 26 01 37 49±1.3 **51.5N**±.10 **177.63W**±.068 **50**±11 **4.4b,4.1s** **65 1-90**
BJI VIII 26 01 37 46.9 51.30N 177.60W 33 4.7b **¶97viii3769**
NEIC VIII 26 01 37 46.9 51.34N 177.65W 33 4.4b,4.0s
EIDC VIII 26 01 38 33.3 51.5N 179.7W 413 3.4b

ISC VIII 26 13 00 51±1.2 **52.1N**±.31 **173.7W**±.21 **33** **3.8b** **5 2-55**
EIDC VIII 26 13 00 41.5 51.8N 175.0W 0 3.8b,4.1L **¶97viii3847**
NEIC VIII 26 13 00 50.6 52.03N 173.70W 33 3.8b
NEIC Less reliable solution.

ISC VIII 26 15 18 55.8±.95 **52.2N**±.23 **173.8W**±.18 **33** **4.0b** **9 2-55**
EIDC VIII 26 15 18 49.1 51.9N 174.3W 0 4.1b,4.4L **¶97viii3868**
NEIC VIII 26 15 18 55.5 52.13N 173.73W 33 3.7b
NEIC Less reliable solution.

ISC VIII 30 21 46 34±2.9 **51.5N**±.31 **178.4W**±.57 **33** **3.6b** **9 1-151**
EIDC VIII 30 21 46 33.5 51.2N 177.7W 0 3.3b **¶97viii4539**
NEIC VIII 30 21 46 33.7 51.45N 178.46W 33 4.1b
NEIC Poor solution.

ISC IX 01 01 54 10±1.6 **51.6N**±.16 **177.6W**±.14 **57**±13 **4.1b** **29 1-151**
NEIC IX 01 01 54 06.7 51.47N 177.63W 33 4.5b **¶97ix0018**
EIDC IX 01 01 54 09.2 51.4N 177.5W 41 3.8b
NEIC Less reliable solution.

ISC IX 01 07 40 24±2.0 **51.18N**±.061 **178.31W**±.048 **27**±14 **4.6b,4.5s** **198 1-151**
EIDC IX 01 07 40 21.3 51.3N 178.3W 0 4.5b,4.4s **¶97ix0069**
BJI IX 01 07 40 23.5 51.42N 178.28W 30 4.8b,4.8s
NEIC IX 01 07 40 24.3 51.18N 178.30W 33 4.7b,4.4s
MOS IX 01 07 40 24.7 51.2N 178.4W 33 5.0b,4.5s

ISC IX 02 01 16 18.9±.99 **51.66N**±.094 **176.95W**±.068 **58**±8.6 **4.5b,3.3s** **69 0-152**
EIDC IX 02 01 16 13.0 51.5N 176.9W 0 4.3b,3.3s **¶97ix0197**
BJI IX 02 01 16 14.0 51.98N 176.57W 35 5.1b
NEIC IX 02 01 16 16.0 51.48N 176.85W 33 4.6b

ISC IX 04 02 21 55±1.5 **51.3N**±.13 **179.7W**±.10 **57**±13 **4.1b**,3.2s **28 2-151**
NEIC IX 04 02 21 55.2 51.27N 179.73W 60 4.3b **¶97ix0535**
EIDC IX 04 02 21 56.0 51.1N 179.6W 54 3.7b,3.1s

ISC IX 09 22 45 41±2.7 **51.7N**±.22 **173.2W**±.21 **39**±25 **3.8b** **11 2-88**
NEIC IX 09 22 45 40.4 51.73N 173.07W 33 **¶97ix1449**
EIDC IX 09 22 45 43.4 51.6N 173.1W 44 3.5b,4.4L
NEIC Less reliable solution.

ISC IX 10 00 22 10±1.3 **51.9N**±.17 **175.8W**±.12 **56**±12 **4.1b**,3.3s **27 1-152**
EIDC IX 10 00 22 03.4 51.6N 175.6W 0 4.1b,3.9L **¶97ix1459**
BJI IX 10 00 22 09.8 52.00N 175.70W 53 4.8b
NEIC IX 10 00 22 09.8 51.95N 175.74W 53 4.0b
NEIC Less reliable solution.

ISC IX 13 05 47 47.7±.84 **52.62N**±.084 **174.63W**±.083 **171**±8.0 **4.0b** **52 1-152**
NEIC IX 13 05 47 48.4 52.63N 174.59W 180 4.2b **¶97ix1928**
EIDC IX 13 05 47 49.8 52.6N 174.6W 180 3.8b

ISC IX 14 09 50 20.2±.96 **51.50N**±.047 **178.42W**±.040 **48**±8.3 **5.0b,4.1s** **242 1-151**
MOS IX 14 09 50 18.5 51.5N 178.4W 33 5.1b,4.3s **¶97ix2101**
BJI IX 14 09 50 18.9 51.40N 178.09W 62 5.2b
NEIC IX 14 09 50 20.6 51.52N 178.39W 53 4.9b
EIDC IX 14 09 50 21.9 51.5N 178.4W 52 4.5b,4.0s
NEIC M_{L}5.0(PMR).

ISC IX 15 20 45 20±3.3 **51.4N**±.32 **177.0W**±.22 **45**±30 **4.1b** **13 1-147**
NEIC IX 15 20 45 19.0 51.26N 176.94W 33 4.2b **¶97ix2283**
EIDC IX 15 20 45 20.3 51.1N 176.9W 31 3.8b
NEIC M_{L}4.4(PMR), Less reliable solution.

Agency		Origin Time			φ	λ	h	Mag	*n*	Δ-Rng
	mo	d	h m	s	°	°	km			°
ISC	**IX**	**17**	**16 40**	**44**±1.3	**51.6N**±.14	**176.30W**±.096	**53**±10	**4.3b**	**31**	**0-152**
BJI	IX	17	16 40	41.4	51.50N	176.20W	33	4.9b		¶97ix2533
NEIC	IX	17	16 40	41.4	51.46N	176.19W	33	4.5b		
EIDC	IX	17	16 40	44.2	51.6N	176.3W	43	3.9b,5.0L		
ISC	**IX**	**18**	**09 10**	**35**±1.0	**51.18N**±.060	**179.49W**±.040	**45**±8.8	**4.8b,4.9s**	**191**	**2-151**
BJI	IX	18	09 10	32.5	51.41N	179.79W	19	5.0b,5.1s		¶97ix2636
NEIC	IX	18	09 10	33.4	51.16N	179.54W	33	4.9b		
EIDC	IX	18	09 10	33.5	51.2N	179.6W	22	4.5b,5.1L		
MOS	IX	18	09 10	35.0	51.5N	179.6W	33	5.2b		
NEIC	$M_{L5.1(PMR)}$.									
ISC	**IX**	**18**	**09 18**	**33**±1.0	**51.17N**±.053	**179.51W**±.039	**41**±9.1	**5.0b,4.9s**	**274**	**2-151**
EIDC	IX	18	09 18	28.5	51.2N	179.6W	0	4.7b,4.9s		¶97ix2638
BJI	IX	18	09 18	31.2	51.02N	179.43W	37	4.9b,5.2s		
NEIC	IX	18	09 18	32.2	51.19N	179.50W	33	5.1b,4.9s		
MOS	IX	18	09 18	33.0	51.3N	179.5W	33	5.3b,4.9s		
HRVD	IX	18	09 18	36.3±.6	51.21N±.07	179.51W±.12	15			
NEIC	Mw5.6(HRV), M_L5.2(PMR).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c52; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.66±.06; $M_{\theta\theta}$−0.81±.08; $M_{\phi\phi}$0.15±.07; $M_{r\theta}$1.78±.23; $M_{r\phi}$1.73±.17; $M_{\theta\phi}$−0.39±.09. Principal Axes: T 2.57,Plg52°,Azm305°; N 0.10, Plg10°,Azm48°; P −2.67,Plg36°,Azm146°. Best double couple: $M_0$2.6×10^{17}Nm, NP1: ϕ_S279°,δ13°,λ142°. NP2:ϕ_S47°,δ82°,λ80°.									
ISC	**IX**	**22**	**10 20**	**54**±3.6	**51.2N**±.25	**176.7W**±.57	**33**	**3.8b**	**7**	**1-57**
EIDC	IX	22	10 20	49.3	51.2N	177.1W	0	3.6b,4.3L		¶97ix3264
NEIC	IX	22	10 20	53.7	51.16N	176.68W	33			
NEIC	Poor solution.									
ISC	**IX**	**23**	**07 30**	**27.4**±.92	**51.86N**±.056	**175.34W**±.041	**55**±8.2	**4.9b,4.2s**	**180**	**1-152**
EIDC	IX	23	07 30	21.2	51.7N	175.3W	0	4.7b,4.9L		¶97ix3390
BJI	IX	23	07 30	26.0	52.13N	175.01W	60	5.1b,4.7s		
NEIC	IX	23	07 30	27.5	51.86N	175.33W	56	4.9b		
NEIC	$M_{L4.8(PMR)}$.									
ISC	**IX**	**23**	**20 44**	**27**±1.7	**51.9N**±.10	**173.63W**±.079	**51**±16	**4.1b,**3.9s	**51**	**2-153**
NEIC	IX	23	20 44	25.4	51.86N	173.59W	33	4.3b		¶97ix3475
EIDC	IX	23	20 44	38.1	52.0N	173.7W	132	3.7b,4.1s		
NEIC	$M_{L4.4(PMR)}$.									
ISC	**IX**	**23**	**20 44**	**54**±2.2	**51.57N**±.064	**173.54W**±.049	**23**±15	**4.7b,4.4s**	**156**	**2-92**
BJI	IX	23	20 44	52.9	52.15N	174.11W	2	5.1b,4.8s		¶97ix3476
MOS	IX	23	20 44	54.6	51.6N	173.5W	33	5.1b		
NEIC	IX	23	20 44	54.7	51.58N	173.50W	33	4.9b,4.2s		
NEIC	Felt slightly at Atka.									
ISC	**IX**	**24**	**16 58**	**34**±1.8	**51.7N**±.11	**173.46W**±.084	**34**±16	**4.2b**	**40**	**2-153**
BJI	IX	24	16 58	31.9	51.44N	174.36W	7	4.5b		¶97ix3606
NEIC	IX	24	16 58	33.3	51.68N	173.44W	33	4.4b		
EIDC	IX	24	16 58	35.9	51.6N	173.4W	42	3.9b,4.6L		
ISC	**IX**	**25**	**01 17**	**17**±2.4	**52.2N**±.20	**173.9W**±.23	**38**±29	**4.0b**	**14**	**2-152**
NEIC	IX	25	01 17	15.9	52.11N	173.80W	33			¶97ix3659
EIDC	IX	25	01 17	46.8	53.0N	172.7W	251	3.4b		
NEIC	Less reliable solution.									
ISC	**IX**	**25**	**01 25**	**30**±2.5	**51.52N**±.055	**173.49W**±.048	**13**±15	**5.0b,4.5s**	**231**	**2-153**
BJI	IX	25	01 25	30.1	52.04N	173.85W	8	5.1b,4.9s		¶97ix3660
NEIC	IX	25	01 25	32.3	51.54N	173.45W	33	5.0b,4.6s		
MOS	IX	25	01 25	32.7	51.6N	173.5W	33	5.4b,4.3s		
EIDC	IX	25	01 25	35.9	51.6N	173.4W	46	4.5b,4.3s		
HRVD	IX	25	01 25	39.2±1.8	51.91N±.12	173.21W±.15	54±6.3			
NEIC	Mw5.1(HRV), M_L4.8(PMR).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c28; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.19±.26; $M_{\theta\theta}$−3.57±.29; $M_{\phi\phi}$0.38±.35; $M_{r\theta}$1.56±.51; $M_{r\phi}$−2.13±.54; $M_{\theta\phi}$−1.74±.50. Principal Axes: T 4.92,Plg57°,Azm62°; N −0.61, Plg33°,Azm257°; P −4.31,Plg7°,Azm162°. Best double couple: $M_0$4.6×10^{16}Nm, NP1: ϕ_S221°,δ48°,λ43°. NP2:ϕ_S99°,δ59°,λ129°.									
ISC	**IX**	**30**	**06 51**	**28**±1.2	**51.1N**±.48	**178.3W**±.69	**33**	**3.5b**	**5**	**1-86**
EIDC	IX	30	06 51	24.9	50.9N	178.2W	0	3.5b		¶97ix5151
NEIC	IX	30	06 51	28.2	51.07N	178.22W	33			
NEIC	Poor solution.									
ISC	**X**	**03**	**22 05**	**40.7**±.85	**51.86N**±.046	**175.37W**±.036	**57**±7.5	**5.1b,4.5s**	**243**	**1-154**
MOS	X	03	22 05	39.6	51.7N	175.4W	54	5.2b,4.4s		¶97x0531
HRVD	X	03	22 05	40.4±.5	51.59N±.04	175.04W±.08	56±3.6			
BJI	X	03	22 05	40.4	52.12N	175.54W	53	5.4b,4.8s		
NEIC	X	03	22 05	41.2	51.84N	175.37W	62	5.1b		
EIDC	X	03	22 05	41.3	51.9N	175.5W	45	4.7b,4.3s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c53; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.88±.25; $M_{\theta\theta}$−4.91±.30; $M_{\phi\phi}$0.04±.30; $M_{r\theta}$2.53±.43; $M_{r\phi}$1.92±.54; $M_{\theta\phi}$−2.26±.46. Principal Axes: T 5.84,Plg72°,Azm305°; N 0.78, Plg9°,Azm65°; P −6.61,Plg15°,Azm157°. Best double couple: $M_0$6.2×10^{16}Nm, NP1:ϕ_S260°, δ31°,λ108°. NP2:ϕ_S59°,δ61°,λ80°.									
NEIC	Mw5.2(HRV), M_L5.2(PMR)									
NEIC	Felt I=IV MM on Adak.									
ISC	**X**	**06**	**17 11**	**30**±2.2	**51.43N**±.073	**174.48W**±.059	**28**±15	**4.8b,4.4s**	**125**	**1-153**
BJI	X	06	17 11	28.9	51.50N	174.60W	27	5.0b,4.7s		¶97x1087
MOS	X	06	17 11	29.0	51.3N	174.5W	33	5.2b,4.1s		
NEIC	X	06	17 11	29.8	51.39N	174.46W	33	4.9b		
EIDC	X	06	17 11	33.9	51.6N	174.5W	49	4.2b,4.2s		
NEIC	$M_{L4.9(PMR)}$.									
ISC	**X**	**09**	**02 48**	**06**±1.1	**51.54N**±.067	**178.14W**±.047	**50**±9.1	**4.8b,3.9s**	**159**	**1-151**
BJI	X	09	02 48	03.1	51.34N	178.05W	39	5.0b		¶97x1512
NEIC	X	09	02 48	03.4	51.49N	178.16W	33	4.9b		
MOS	X	09	02 48	03.7	51.4N	178.2W	33	5.1b		
EIDC	X	09	02 48	07.2	51.5N	178.1W	49	4.4b,3.8s		
NEIC	$M_{L4.8(PMR)}$									
NEIC	Felt I=IV MM on Adak.									
ISC	**X**	**11**	**02 04**	**16**±1.1	**51.52N**±.080	**177.67W**±.058	**59**±9.5	**4.6b,4.0s**	**94**	**1-151**
BJI	X	11	02 04	13.3	51.40N	177.70W	33	5.0b,4.7s		¶97x1828
NEIC	X	11	02 04	13.3	51.42N	177.67W	33	4.5b,4.4s		
EIDC	X	11	02 04	16.9	51.4N	177.6W	43	4.2b,3.8s		
ISC	**X**	**12**	**12 11**	**54.4**±.33	**51.40N**±.085	**178.45W**±.061	**33**	**4.6b,**3.3s	**80**	**1-160**
BJI	X	12	12 11	53.3	51.34N	178.38W	34	4.9b		¶97x2040
NEIC	X	12	12 11	54.2	51.36N	178.42W	33	4.6b		
EIDC	X	12	12 12	01.0	51.5N	178.4W	76	4.1b,3.3s		
NEIC	$M_{L4.8(PMR)}$.									
ISC	**X**	**15**	**03 11**	**12.2**±.88	**51.42N**±.038	**177.85W**±.034	**46**±7.6	**5.5b,6.1s**	**557**	**1-160**
MOS	X	15	03 11	08.4	51.3N	177.9W	20	5.6b,6.1s		¶97x2553
BJI	X	15	03 11	08.4	51.98N	178.01W	11	5.6b,6.2s		
NEIC	X	15	03 11	09.0	51.43N	177.88W	22	5.7b,6.1s		
EIDC	X	15	03 11	09.2	51.4N	177.6W	18	4.7b,6.0s		
HRVD	X	15	03 11	15.6±.7	51.45N±.06	176.66W±.11	15			
NEIC	Mw6.4(HRV), M_L5.6(PMR)									
NEIC	Felt I=III MM on Adak.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c67; Mantle waves: s23,c29; Half duration: 3s7. Moment tensor: Scale 10^{18}Nm; M_{rr}1.85±.17; $M_{\theta\theta}$−1.49±.14; $M_{\phi\phi}$−0.36±.19; $M_{r\theta}$4.14±.54; $M_{r\phi}$1.04±.58; $M_{\theta\phi}$−1.94±.17. Principal Axes: T 4.66,Plg55°,Azm5°; N 0.61,Plg16°,Azm251°; P −5.26,Plg30°,Azm152°. Best double couple: $M_0$5.0×10^{18}Nm, NP1:ϕ_S203°,δ21°,λ40°. NP2:ϕ_S75°,δ77°,λ106°.									
ISC	**X**	**15**	**09 05**	**22**±2.6	**51.3N**±.33	**178.1W**±.38	**33**	**3.5b**	**5**	**1-58**
EIDC	X	15	09 05	19.2	51.2N	178.0W	0	3.4b		¶97x2593
NEIC	X	15	09 05	21.7	51.25N	178.08W	33			
NEIC	Poor solution.									
ISC	**X**	**16**	**21 45**	**25**±1.2	**51.33N**±.070	**177.86W**±.049	**52**±10	**4.6b,4.1s**	**128**	**1-151**
BJI	X	16	21 45	21.6	51.53N	178.38W	14	5.0b,4.3s		¶97x2884
MOS	X	16	21 45	21.7	51.1N	177.8W	33	5.4b,4.1s		
NEIC	X	16	21 45	22.8	51.29N	177.87W	33	4.7b,4.1s		
EIDC	X	16	21 45	23.0	51.4N	177.8W	21	4.2b,4.0s		
NEIC	$M_{L4.7(PMR)}$									
NEIC	Felt I=II MM at Adak.									
ISC	**X**	**17**	**16 12**	**37**±2.3	**52.3N**±.29	**173.4W**±.27	**66**±25	**3.8b**	**9**	**2-88**
EIDC	X	17	16 12	30.0	52.0N	173.4W	0	3.8b,4.5L		¶97x3017
NEIC	X	17	16 12	37.1	52.27N	173.40W	64	4.3b		
NEIC	Poor solution.									
ISC	**X**	**19**	**07 05**	**28**±4.5	**52.0N**±.19	**178.3W**±.72	**107**±14	**3.9b**	**21**	**1-58**
EIDC	X	19	07 05	22.0	51.9N	177.1W	0	3.8b		¶97x3306
NEIC	X	19	07 05	28.9	52.03N	178.16W	110	4.1b		
NEIC	Poor solution.									
ISC	**X**	**21**	**04 53**	**58**±1.1	**52.7N**±.17	**177.0W**±.31	**256**±9.8	**3.4b**	**20**	**1-148**
EIDC	X	21	04 53	30.7	52.1N	177.2W	0	3.7b		¶97x3608
NEIC	X	21	04 53	58.4	52.69N	176.87W	250	4.2b		
NEIC	Poor solution.									
ISC	**X**	**25**	**04 30**	**53**±1.2	**51.67N**±.093	**175.76W**±.063	**50**±11	**4.5b,4.2s**	**78**	**1-152**
BJI	X	25	04 30	49.5	51.64N	175.12W	51	5.0b		¶97x4273
NEIC	X	25	04 30	50.7	51.57N	175.72W	33	4.5b,4.5s		
EIDC	X	25	04 30	55.7	51.7N	175.7W	61	4.1b,3.9s		
NEIC	$M_{L4.7(PMR)}$.									
ISC	**X**	**25**	**10 50**	**14**±1.5	**51.64N**±.090	**173.20W**±.064	**42**±13	**4.4b,**4.2s	**69**	**2-153**
BJI	X	25	10 50	12.9	52.19N	174.18W	5	5.0b		¶97x4313
NEIC	X	25	10 50	12.9	51.62N	173.18W	33	4.4b		
EIDC	X	25	10 50	17.8	51.6N	173.2W	59	4.1b,3.9s		
NEIC	$M_{L4.4(PMR)}$.									
ISC	**X**	**27**	**22 35**	**03**±1.6	**51.5N**±.14	**176.41W**±.095	**48**±13	**4.4b,3.8s**	**40**	**0-152**
EIDC	X	27	22 34	57.8	51.5N	176.3W	0	4.2b,3.7s		¶97x4667
NEIC	X	27	22 35	01.5	51.40N	176.37W	33	4.5b		
BJI	X	27	22 35	01.6	50.69N	176.84W	39	5.0b		
NEIC	$M_{L4.5(PMR)}$									
NEIC	Felt I=III MM on Adak.									
ISC	**X**	**31**	**08 00**	**45**±1.3	**51.4N**±.18	**177.2W**±.19	**33**	**4.2b**	**18**	**1-81**
NEIC	X	31	08 00	43.9	51.22N	177.22W	33	4.4b		¶97x5156
EIDC	X	31	08 00	47.3	51.6N	177.1W	27	3.9b,4.7s		
NEIC	Less reliable solution.									
ISC	**XI**	**05**	**03 52**	**29**±1.6	**52.50N**±.096	**173.13W**±.086	**45**±15	**4.2b**	**49**	**2-150**
EIDC	XI	05	03 52	26.4	52.3N	173.2W	17	4.0b,4.0L		¶97xi0729
NEIC	XI	05	03 52	27.1	52.43N	173.06W	33	4.4b		
ISC	**XI**	**06**	**04 08**	**18**±6.6	**51.4N**±.15	**178.8W**±.21	**19**±44	**4.1b**	**24**	**1-151**
EIDC	XI	06	04 08	16.4	51.3N	178.8W	0	4.1b		¶97xi0920
NEIC	XI	06	04 08	19.7	51.43N	178.77W	33	4.1b		
ISC	**XI**	**08**	**10 35**	**32**±2.1	**51.4N**±.12	**178.6W**±.11	**44**±17	**4.1b**	**46**	**1-147**
EIDC	XI	08	10 35	26.8	51.3N	178.6W	0	4.0b,4.6L		¶97xi1262
NEIC	XI	08	10 35	30.3	51.44N	178.63W	33	4.4b		
ISC	**XI**	**09**	**19 00**	**23**±1.2	**51.50N**±.074	**178.15W**±.049	**52**±10	**4.6b,4.9s**	**102**	**1-151**
BJI	XI	09	19 00	20.2	51.62N	178.11W	32	4.8b,4.7s		¶97xi1495
NEIC	XI	09	19 00	20.8	51.45N	178.19W	33	4.7b		
MOS	XI	09	19 00	21.2	51.3N	178.1W	33	5.3b		
EIDC	XI	09	19 00	24.6	51.5N	178.2W	52	4.1b		
NEIC	$M_{L4.8(PMR)}$.									
ISC	**XI**	**13**	**06 12**	**15**±1.3	**51.44N**±.061	**177.72W**±.048	**38**±11	**4.8b,4.3s**	**170**	**1-151**
BJI	XI	13	06 12	13.0	51.21N	177.65W	37	5.1b		¶97xi2087
MOS	XI	13	06 12	13.1	51.2N	177.7W	33	5.3b,4.3s		
NEIC	XI	13	06 12	13.8	51.43N	177.72W	33	4.9b		
EIDC	XI	13	06 12	16.7	51.5N	177.7W	43	4.3b,4.1s		
NEIC	$M_{L5.1(PMR)}$.									
EIDC	**XI**	**14**	**07 27**	**08.1**	**51.7N**	**172.1W**	**0**	3.5b,3.9L		¶97xi2258
ISC	**XI**	**16**	**04 49**	**42.3**±.20	**51.62N**±.044	**173.47W**±.035	**46**±.6*	**5.1b,4.6s**	**313**	**2-153**
BJI	XI	16	04 49	39.8	51.71N	173.58W	32	5.4b,4.9s		¶97xi2598
MOS	XI	16	04 49	40.7	51.7N	173.5W	33	5.3b,4.4s		
NEIC	XI	16	04 49	40.7	51.66N	173.43W	33	5.1b,4.6s		
HRVD	XI	16	04 49	42.1±.1	51.43N±.01	173.52W±.04	34±1.4			
EIDC	XI	16	04 49	44.1	51.7N	173.5W	45	4.6b		
NEIC	Mw5.2(HRV), M_L5.0(PMR)									
NEIC	Felt I=III MM on Adak.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c14; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.92±.82; $M_{\theta\theta}$−4.58±.83; $M_{\phi\phi}$−1.34±1.23; $M_{r\theta}$3.76±2.21; $M_{r\phi}$−0.09±4.78; $M_{\theta\phi}$0.93±1.36. Principal Axes: T 7.13,Plg72°,Azm356°; N −1.16,Plg5°,Azm100°; P −5.97,Plg17°,Azm192°. Best double couple: $M_0$6.6×10^{16}Nm, NP1: ϕ_S289°,δ28°,λ100°. NP2:ϕ_S98°,δ63°,λ85°.									
ISC	**XI**	**17**	**05 04**	**36.7**±.88	**51.78N**±.064	**176.05W**±.043	**62**±8.0	**4.8b**	**157**	**0-152**
BJI	XI	17	05 04	34.4	51.65N	176.03W	54	5.0b,4.6s		¶97xi2739
NEIC	XI	17	05 04	35.4	51.79N	176.03W	51	5.1b		
MOS	XI	17	05 04	35.5	51.7N	176.0W	50	5.2b		
HRVD	XI	17	05 04	37.0±.6	51.64N±.05	175.86W±.09	62±3.1			
EIDC	XI	17	05 04	37.4	51.7N	176.0W	54	4.1b,4.3s		
NEIC	Mw5.2(HRV)									
NEIC	Felt on Adak.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c37; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.42±.28; $M_{\theta\theta}$−5.41±.40; $M_{\phi\phi}$−1.02±.37; $M_{r\theta}$1.33±.47; $M_{r\phi}$2.36±.70; $M_{\theta\phi}$−3.12±.47. Principal Axes: T 7.12,Plg74°,Azm278°; N 0.28, Plg12°,Azm59°; P −7.41,Plg10°,Azm151°. Best double couple: $M_0$7.3×10^{16}Nm, NP1: ϕ_S255°,δ37°,λ111°. NP2:ϕ_S50°,δ56°,λ75°.									
ISC	**XI**	**23**	**04 27**	**23.5**±.53	**51.3N**±.10	**178.2W**±.11	**33**	**4.1b**	**43**	**1-147**
EIDC	XI	23	04 27	19.7	51.2N	178.2W	0	3.9b,4.3L		¶97xi4029
BJI	XI	23	04 27	21.3	51.50N	178.24W	32			
NEIC	XI	23	04 27	23.5	51.25N	178.17W	33	4.5b		
ISC	**XI**	**23**	**07 11**	**16**±1.4	**51.44N**±.094	**179.37W**±.068	**43**±12	**4.5b**	**76**	**2-146**
EIDC	XI	23	07 11	11.2	51.3N	179.2W	0	4.2b,5.2L		¶97xi4061
BJI	XI	23	07 11	12.5	51.43N	179.29W	32			
NEIC	XI	23	07 11	14.6	51.38N	179.32W	33	4.7b		
NEIC	$M_{L4.9(PMR)}$.									
ISC	**XI**	**23**	**15 00**	**53**±1.2	**52.04N**±.084	**179.52W**±.082	**128**±11	**4.2b**	**61**	**2-147**
BJI	XI	23	15 00	51.5	51.85N	179.36W	133	5.2b		¶97xi4137
NEIC	XI	23	15 00	53.2	52.04N	179.44W	131	4.5b		
EIDC	XI	23	15 00	56.3	52.0N	179.4W	148	3.9b		
ISC	**XI**	**24**	**01 05**	**08**±2.8	**51.2N**±.13	**178.2W**±.56	**33**	**4.3b**	**21**	**1-50**
NEIC	XI	24	01 05	07.6	51.20N	178.30W	33	4.2b		¶97xi4238
NEIC	M_L4.0(PMR), Poor solution.									

ISC XI 25 15 43 51±1.1 **52.0N**±.23 **176.3W**±.19 **58**±12 **3.9b** **10 0-72**
EIDC XI 25 15 43 44.9 51.8N 176.4W 0 3.8b,4.1L **¶97xi4542**
NEIC XI 25 15 43 50.5 51.79N 176.20W 61 4.1b
NEIC Poor solution.
ISC XI 26 07 35 58±2.3 **51.4N**±.30 **176.6W**±.26 **68**±19 **3.8b** **11 0-83**
EIDC XI 26 07 35 48.1 51.3N 177.1W 0 4.0b,4.9L **¶97xi4649**
NEIC XI 26 07 35 53.6 51.03N 176.40W 33 4.4b
NEIC Less reliable solution.
ISC XI 26 09 00 05±1.6 **51.9N**±.27 **178.4W**±.21 **33** **3.6b** **10 1-88**
NEIC XI 26 08 59 57.0 51.60N 179.36W 33 3.9b **¶97xi4661**
EIDC XI 26 09 01 13.1 53.6N 170.5W 332 2.8b
NEIC Poor solution.
ISC XI 30 18 19 32±1.8 **51.2N**±.11 **176.79W**±.071 **43**±15 **4.5b,4.6s** **58 1-152**
EIDC XI 30 18 19 27.3 51.2N 176.8W 0 4.1b,4.6L **¶97xi5444**
BJI XI 30 18 19 29.3 51.13N 176.36W 39 5.0b,4.9s
NEIC XI 30 18 19 30.7 51.13N 176.78W 33 4.5b,4.6s
ISC XII 01 13 07 49.3±.77 **51.1N**±.18 **178.4W**±.16 **33** **3.9b** **15 1-85**
EIDC XII 01 13 07 45.7±1.11 51.1N 178.4W 0 3.7b,4.2s **¶97xii0090**
NEIC XII 01 13 07 49.0 51.08N 178.42W 33 4.3b
EIDC Error ellipse is semi−major=44.8km semi−minor=20.2km azimuth=166
NEIC Less reliable solution.
ISC XII 02 08 42 15.8±.86 **51.2N**±.14 **176.1W**±.12 **33** **4.2b** **19 1-83**
BJI XII 02 08 42 12.7 51.51N 175.99W 25 4.8b **¶97xii0218**
EIDC XII 02 08 42 13.6±1.60 51.6N 176.1W 0 4.0b
NEIC XII 02 08 42 15.4 51.24N 176.09W 33 4.2b
EIDC Error ellipse is semi−major=49.6km semi−minor=19.7km azimuth=173
NEIC Less reliable solution.
ISC XII 03 10 24 32.7±.86 **51.5N**±.15 **176.0W**±.21 **33** **3.9b** **8 1-152**
EIDC XII 03 10 24 28.9±.93 51.7N 176.6W 0 3.8b **¶97xii0404**
NEIC XII 03 10 24 32.7 51.47N 176.03W 33
EIDC Error ellipse is semi−major=67.7km semi−minor=20.5km azimuth=139
NEIC Less reliable solution.
ISC XII 04 08 33 01±1.3 **51.41N**±.094 **178.99W**±.068 **51**±12 **4.4b**,3.2s **68 2-151**
EIDC XII 04 08 32 55.2±.56 51.4N 179.0W 0 4.2b,3.2s **¶97xii0583**
BJI XII 04 08 32 58.7 51.40N 179.00W 33 4.8b
NEIC XII 04 08 32 58.7 51.43N 179.02W 33 4.7b
EIDC Error ellipse is semi−major=18.9km semi−minor=11.3km azimuth=161
NEIC ML4.4(PMR).
ISC XII 04 17 43 06±1.4 **51.8N**±.34 **174.6W**±.20 **33** 3.7b **5 1-56**
EIDC XII 04 17 43 05.8 51.6N 173.8W 0 3.7b,3.7L **¶97xii0659**
NEIC XII 04 17 43 06.1 51.81N 174.54W 33
EIDC Origin time error = 19.12Error ellipse is semi−major=365.6km semi−minor=53.9km azimuth=84
NEIC Poor solution.
ISC XII 09 07 44 22±1.8 **51.7N**±.30 **176.1W**±.39 **59**±19 **3.7b** **10 0-152**
EIDC XII 09 07 44 15.0±1.11 51.6N 176.1W 0 3.7b **¶97xii2127**
NEIC XII 09 07 44 18.7 51.49N 175.87W 33 3.4b
EIDC Error ellipse is semi−major=48.2km semi−minor=23.6km azimuth=141
NEIC Less reliable solution.
ISC XII 10 11 12 45±1.4 **51.36N**±.085 **179.33W**±.064 **44**±12 **4.7b,5.2s** **78 2-151**
BJI XII 10 11 12 41.3 51.30N 179.20W 33 4.8b,5.5s **¶97xii2336**
NEIC XII 10 11 12 44.3 51.31N 179.23W 33 4.8b,5.0s
EIDC XII 10 11 12 45.8±3.87 51.4N 179.3W 31±27.4 4.3b,4.7L
NEIC ML4.9(PMR).
EIDC Error ellipse is semi−major=27.8km semi−minor=13.2km azimuth=163
ISC XII 12 16 24 34±1.1 **52.6N**±.27 **173.5W**±.28 **100** **3.4b** **7 2-55**
EIDC XII 12 16 23 58.9±7.51 51.8N 178.7W 0 3.5b **¶97xii2782**
NEIC XII 12 16 24 33.7 52.61N 173.48W 100 3.2b
EIDC Error ellipse is semi−major=145.2km semi−minor=52.5km azimuth=84
NEIC Poor solution.
ISC XII 13 15 22 58.4±.68 **50.3N**±.13 **173.68W**±.099 **33** **4.0b** **27 2-124**
EIDC XII 13 15 22 54.5±.91 50.2N 173.7W 0 4.0b,4.3L **¶97xii2965**
NEIC XII 13 15 22 57.9 50.27N 173.72W 33 4.3b
EIDC Error ellipse is semi−major=26.0km semi−minor=13.9km azimuth=169
ISC XII 18 10 22 12±1.6 **51.3N**±.15 **179.40W**±.085 **50**±13 **4.1b** **40 2-80**
NEIC XII 18 10 22 10.2 51.36N 179.46W 33 4.3b **¶97xii3750**
EIDC XII 18 10 22 12.9±1.30 51.3N 179.4W 39±6.2 3.8b,4.3L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=31.5km semi−minor=13.9km azimuth=178
ISC XII 18 12 27 10±1.8 **51.2N**±.42 **179.3W**±.18 **33** **3.9b** **10 2-74**
EIDC XII 18 12 27 07.6±3.45 51.1N 179.2W 0 3.5b **¶97xii3763**
NEIC XII 18 12 27 11.3 51.30N 179.26W 33
NEIC Poor solution.
ISC XII 19 14 49 25±1.8 **51.5N**±.24 **179.4W**±.11 **50**±13 **3.9b** **23 2-79**
EIDC XII 19 14 49 24.9±2.21 51.8N 179.3W 19±5.7 3.6b **¶97xii3985**
NEIC XII 19 14 49 25.1 51.85N 179.26W 33 4.4b
EIDC Error ellipse is semi−major=54.1km semi−minor=21.0km azimuth=14
NEIC Poor solution.
ISC XII 21 12 29 35±1.2 **51.5N**±.22 **178.4W**±.26 **33** **3.3b** **9 1-86**
EIDC XII 21 12 29 31.5±1.45 51.3N 178.4W 0 3.4b,4.2L **¶97xii4252**
NEIC XII 21 12 29 34.6 51.54N 178.55W 33 3.2b
EIDC Error ellipse is semi−major=40.2km semi−minor=28.1km azimuth=141
NEIC Poor solution.
ISC XII 23 15 17 10±1.9 **51.6N**±.32 **175.8W**±.21 **33** **3.5b** **6 1-57**
EIDC XII 23 15 16 59.9 51.2N 177.0W 0 3.4b **¶97xii4622**
NEIC XII 23 15 17 09.1 51.56N 175.84W 33 3.7b
EIDC Origin time error = 12.66Error ellipse is semi−major=249.0km semi−minor=50.5km azimuth=80
NEIC Poor solution.
ISC XII 27 20 34 46±1.6 **51.5N**±.12 **175.03W**±.082 **42**±13 **4.5b,5.3s** **76 1-153**
EIDC XII 27 20 34 42.1±.83 51.6N 175.0W 0 4.2b,4.5L **¶97xii5344**
NEIC XII 27 20 34 44.5 51.43N 175.04W 33 4.3b
BJI XII 27 20 34 49.1 52.25N 175.87W 33 5.0b,5.3s
EIDC Error ellipse is semi−major=25.9km semi−minor=12.5km azimuth=164
ISC XII 27 21 07 24±2.6 **51.6N**±.27 **174.9W**±.14 **37**±19 **3.8b** **25 1-153**
NEIC XII 27 21 07 22.9 51.53N 174.92W 33 3.6b **¶97xii5348**
EIDC XII 27 21 07 24.6±1.61 51.5N 175.0W 30±10.7 3.5b,4.1L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=43.8km semi−minor=17.9km azimuth=168
EIDC XII 28 07 02 59.5±2.76 **52.2N** **178.6W** **0** **3.5b** **21-58**
EIDC Error ellipse is semi−major=67.6km semi−minor=29.6km azimuth=3 **¶97xii5417**
ISC XII 28 09 06 48.1±.35 **51.59N**±.078 **175.00W**±.055 **33** **4.6b,4.4s** **106 1-152**
BJI XII 28 09 06 45.4 51.98N 175.54W 4 4.9b,4.9s **¶97xii5428**
EIDC XII 28 09 06 47.3±.85 51.5N 175.0W 20±4.2 4.2b,4.2s
NEIC XII 28 09 06 47.8 51.58N 175.01W 33 4.7b,4.3s
EIDC Error ellipse is semi−major=20.5km semi−minor=10.4km azimuth=155
ISC XII 29 01 16 45±1.0 **52.6N**±.25 **173.8W**±.25 **130** **3.4b** **7 2-67**
EIDC XII 29 01 16 27.4±2.86 52.0N 174.6W 0 3.6b,4.5L **¶97xii5524**
NEIC XII 29 01 16 45.0 52.63N 173.81W 130
EIDC Error ellipse is semi−major=55.0km semi−minor=38.7km azimuth=36
NEIC Poor solution.

ISC XII 29 20 13 07±1.8 **51.7N**±.18 **175.0W**±.12 **41**±14 **4.0b**,4.2s **39 1-152**
BJI XII 29 20 13 04.8 52.20N 175.86W 5 4.9b **¶97xii5630**
NEIC XII 29 20 13 05.4 51.64N 175.01W 33 4.1b
EIDC XII 29 20 13 09.7±.75 51.8N 175.1W 48±4.3 3.7b,3.7s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=27.2km semi−minor=12.2km azimuth=166
ISC XII 30 00 49 03±1.5 **51.9N**±.14 **175.03W**±.082 **35**±13 **4.1b**,4.4s **51 1-152**
EIDC XII 30 00 48 58.2±1.07 51.7N 175.0W 0 4.0b,4.5L **¶97xii5664**
BJI XII 30 00 49 01.5 51.79N 174.95W 39 4.9b
NEIC XII 30 00 49 02.1 51.89N 175.08W 33 4.1b
EIDC Error ellipse is semi−major=34.0km semi−minor=14.2km azimuth=164
NEIC ML4.6(PMR), Less reliable solution.
ISC XII 30 18 16 19.2±.95 **50.9N**±.14 **176.8W**±.24 **33** **3.7b** **8 1-86**
EIDC XII 30 18 16 16.6±1.46 50.6N 176.5W 0 3.5b **¶97xii5769**
NEIC XII 30 18 16 19.7 51.02N 176.56W 33 3.8b
EIDC Error ellipse is semi−major=46.2km semi−minor=31.1km azimuth=143
NEIC Less reliable solution.

(8) Pribilof Islands.

ISC VII 03 22 25 06±3.2 **56.5N**±.16 **167.6W**±.52 **33** **3.3b** **10 4-52**
EIDC VII 03 22 24 50.6 56.4N 170.6W 0 3.5b,3.1L **¶97vii0461**
NEIC VII 03 22 25 05.5 56.45N 167.65W 33
NEIC Poor solution.
ISC VII 04 10 57 37±4.1 **56.55N**±.084 **168.2W**±.11 **13**±25 **4.0b** **33 5-94**
EIDC VII 04 10 57 36.6 56.4N 168.3W 0 3.9b,3.8L **¶97vii0544**
NEIC VII 04 10 57 39.9 56.56N 168.16W 33 4.2b

(9) Fox Islands.

ISC VII 03 17 05 09±3.1 **52.5N**±.12 **168.6W**±.10 **26**±22 **4.0b,3.5s** **35 5-151**
EIDC VII 03 17 05 05.1 52.4N 168.6W 0 4.0b,3.5s **¶97vii0430**
NEIC VII 03 17 05 08.9 52.45N 168.62W 33 4.5b
BJI VII 03 17 05 10.3 52.84N 168.59W 29
NEIC Less reliable solution.
ISC VII 04 14 25 08±2.9 **53.3N**±.27 **165.6W**±.10 **15** **10 1-4**
NEIC VII 04 14 25 10.3 53.43N 165.61W 15 **¶97vii0572**
NEIC ML3.3(AEIC), After AEIC.
ISC VII 04 21 24 44±1.4 **51.2N**±.27 **170.2W**±.17 **33** **3.5b** **6 4-53**
EIDC VII 04 21 24 17.0 50.5N 174.8W 0 3.7b **¶97vii0621**
NEIC VII 04 21 24 44.0 51.17N 170.20W 33
NEIC Poor solution.
ISC VII 07 21 48 49.6±.65 **54.6N**±.14 **165.8W**±.19 **110** 4.2b **12 0-65**
NEIC VII 07 21 48 50.7 54.08N 165.31W 110 4.0b **¶97vii1095**
NEIC After AEIC.
EIDC VII 10 02 26 46.2 **51.7N** **167.9W** **0** 3.3b,4.0L **6-52**
¶97vii1432
EIDC VII 10 22 36 50.2 **51.0N** **171.9W** **0** 3.3b,3.6L **19-54**
¶97vii1580
NEIC VII 11 15 13 24.4 **53.82N** **165.17W** **66** **0-2**
NEIC ML2.7(AEIC), After AEIC. **¶97vii1700**
ISC VII 11 17 46 19±1.1 **52.2N**±.20 **169.6W**±.17 **33** **3.7b** **11 4-76**
NEIC VII 11 17 46 18.6 52.22N 169.66W 33 3.8b **¶97vii1711**
EIDC VII 11 17 46 23.8 52.4N 168.1W 0 3.6b,3.4L
NEIC Less reliable solution.
ISC VII 18 00 15 59.8±.67 **52.67N**±.084 **167.00W**±.094 **33** **3.9b** **36 1-122**
EIDC VII 18 00 15 56.4 52.6N 167.1W 0 3.9b **¶97vii2668**
NEIC VII 18 00 16 01.6 52.91N 166.86W 0 4.3b
NEIC ML3.8(AEIC), After AEIC.
ISC VII 18 04 50 13±1.9 **51.7N**±.34 **170.3W**±.23 **33** **3.5b** **5 4-41**
EIDC VII 18 04 49 56.4 50.9N 172.4W 0 3.7b,3.3L **¶97vii2693**
NEIC VII 18 04 50 12.6 51.68N 170.33W 33
NEIC Poor solution.
ISC VII 20 00 30 20.9±.15 **52.51N**±.032 **167.56W**±.031 **14** **5.6b,6.0s** **550 5-162**
BJI VII 20 00 30 18.9 52.63N 167.61W 11 5.8b,6.2s **¶97vii2978**
EIDC VII 20 00 30 19.5 52.6N 167.6W 0 5.1b,4.3L
MOS VII 20 00 30 20.4 52.6N 167.5W 10 6.1b,6.1s
NEIC VII 20 00 30 20.9 52.56N 167.48W 14 5.6b,5.9s
HRVD VII 20 00 30 26.4±.1 52.33N±.01 167.37W±.02 19
NEIC Mw6.1(GS), Me5.7(GS).
NEIC Mw 6.1 (HRV).
NEIC Radiated energy from the P−wave first−motion solution: 7.6±1.0×10^{12}Nm/21
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S240°,δ4°,λ90°. NP2:ϕ_S60°,δ86°,λ90°. Principal axes: T Plg49°,Azm330°; P Plg41°,Azm150°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s58, scale 10^{18}Nm; M_{rr}0.35; $M_{\theta\theta}$−0.20; $M_{\phi\phi}$−0.14; $M_{r\theta}$1.36; $M_{r\theta}$0.63; $M_{\theta\phi}$0.01. Depth 7km; Principal axes: T 1.60,Plg50°,Azm334°; N −0.16,Plg1°, Azm65°; P −1.44,Plg40°,Azm156°. Best double couple: M0 1.5×10^{18}Nm; NP1:ϕ_S257°,δ5°, λ102°. NP2:ϕ_S65°,δ85°,λ89°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s51,c112; Mantle waves: s44,c67; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}0.95±.01; $M_{\theta\theta}$−0.80±.01; $M_{\phi\phi}$−0.15±.01; $M_{r\theta}$1.02±.03; $M_{r\theta}$0.43±.03; $M_{\theta\phi}$−0.40±.01. Principal Axes: T 1.46,Plg65°,Azm339°; N 0.04,Plg1°,Azm246°; P −1.49,Plg24°,Azm155°. Best double couple: M0 1.5×10^{18}Nm, NP1:ϕ_S243°,δ21°,λ86°. NP2:ϕ_S66°,δ70°,λ91°.
ISC VII 20 00 36 51.4±.91 **52.7N**±.16 **167.5W**±.16 **10** **4.3b** **14 16-72**
EIDC VII 20 00 36 49.6 52.5N 167.2W 0 4.0b,3.3L **¶97vii2979**
NEIC VII 20 00 36 51.0 52.71N 167.44W 10 4.5b
NEIC Less reliable solution.
ISC VII 20 00 38 36.2±.39 **52.48N**±.082 **167.54W**±.073 **10** **4.5b** **69 6-151**
BJI VII 20 00 38 34.4 52.48N 167.55W 9 5.0b **¶97vii2980**
NEIC VII 20 00 38 36.0 52.46N 167.50W 10 4.6b
EIDC VII 20 00 38 41.3 52.5N 167.5W 33 4.1b,3.8L
ISC VII 20 00 52 24±1.1 **52.6N**±.18 **167.7W**±.19 **10** **3.8b** **10 16-67**
EIDC VII 20 00 52 24.0 52.6N 167.6W 0 3.7b,3.4L **¶97vii2981**
ISC VII 20 00 55 25.5±.29 **52.55N**±.057 **167.52W**±.049 **10** **4.8b**,5.5s **162 5-154**
BJI VII 20 00 55 23.1 52.62N 167.37W 8 5.2b **¶97vii2982**
EIDC VII 20 00 55 25.0 52.7N 167.4W 0 4.4b,4.1L
NEIC VII 20 00 55 25.3 52.55N 167.47W 10 5.0b
MOS VII 20 00 55 25.7 52.6N 167.4W 10 5.3b
NEIC ML4.7(PMR).
ISC VII 20 05 53 31±2.6 **52.4N**±.27 **167.9W**±.46 **10** **3.6b** **7 16-66**
NEIC VII 20 05 53 30.3 52.41N 168.03W 10 **¶97vii3026**
EIDC VII 20 05 53 31.8 52.5N 167.8W 0 3.6b,3.0L
NEIC Poor solution.
ISC VII 20 06 05 33±1.6 **52.8N**±.23 **167.5W**±.26 **10** **3.7b** **6 16-66**
NEIC VII 20 06 05 33.0 52.77N 167.50W 10 **¶97vii3029**
EIDC VII 20 06 05 33.7 52.8N 167.5W 0 3.6b,3.1L
NEIC Poor solution.
ISC VII 22 12 05 22±5.9 **52.6N**±.22 **167.4W**±.17 **8**±37 **4.0b** **13 6-67**
EIDC VII 22 12 05 21.9 52.6N 167.4W 0 3.9b,3.8L **¶97vii3374**
NEIC VII 22 12 05 24.7 52.62N 167.33W 33 4.1b

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC		Less reliable solution.						
ISC	**VII**	**25 23 59 08.9**±.35	**52.29N**±.067	**169.53W**±.060	**33**	**4.4b,4.0s**	**88**	**4-90**
EIDC	VII	25 23 59 05.3	52.4N	169.5W	0	4.3b,4.0s		¶97vii3890
MOS	VII	25 23 59 08.2	52.2N	169.5W	33	4.7b		
NEIC	VII	25 23 59 08.7	52.28N	169.50W	33	4.6b,4.2s		
ISC	**VII**	**27 03 43 25**±1.6	**53.0N**±.24	**166.5W**±.31	**150**	**3.6b**	**7**	**15-67**
EIDC	VII	27 03 43 06.8	52.4N	167.2W	0	3.9b,3.3L		¶97vii4052
NEIC	VII	27 03 43 09.7	52.46N	167.19W	33	3.9b		
NEIC		Poor solution.						
ISC	**VII**	**27 03 56 31**±2.7	**52.6N**±.25	**168.0W**±.54	**33**	**3.7b**	**5**	**16-66**
EIDC	VII	27 03 56 27.4	52.6N	168.0W	0	3.7b,3.2L		¶97vii4053
NEIC	VII	27 03 56 30.5	52.59N	167.96W	33			
NEIC		Poor solution.						
ISC	**VII**	**30 23 30 48**±1.3	**52.3N**±.21	**167.5W**±.20	**33**	**3.9b**	**9**	**16-67**
EIDC	VII	30 23 30 44.6	52.3N	167.7W	0	3.8b,3.3s		¶97vii4648
NEIC	VII	30 23 30 47.8	52.30N	167.52W	33	4.2b		
NEIC		Less reliable solution.						
ISC	**VIII**	**01 22 45 49**±1.6	**52.4N**±.19	**170.6W**±.17	**75**±15	**3.8b**	**13**	**3-124**
EIDC	VIII	01 22 45 38.5	52.1N	171.2W	0	3.9b,3.5L		¶97viii0128
NEIC	VIII	01 22 45 49.0	52.43N	170.59W	77			
NEIC		Less reliable solution.						
ISC	**VIII**	**06 23 48 17**±1.1	**53.9N**±.12	**169.2W**±.14	**183**±10	**3.7b**	**22**	**5-91**
EIDC	VIII	06 23 48 13.0	53.8N	169.5W	132	3.5b		¶97viii0855
NEIC	VIII	06 23 48 17.5	53.93N	169.16W	184	4.0b		
NEIC		Less reliable solution.						
ISC	**VIII**	**08 03 27 57.2**±.36	**54.12N**±.058	**165.03W**±.054	**95**±2.8	**4.4b**	**141**	**0-153**
BJI	VIII	08 03 27 52.3	54.20N	164.91W	70	4.9b		¶97viii1049
EIDC	VIII	08 03 27 57.4	54.3N	165.1W	80	3.9b		
NEIC	VIII	08 03 27 58.7	54.01N	164.88W	73	4.6b		
NEIC		After AEIC.						
NEIC	**VIII**	**15 20 40 18.1**	**53.41N**	**167.16W**	**105**			**0-3**
NEIC		After AEIC.						¶97viii2268
ISC	**VIII**	**17 05 31 37.2**±.41	**54.05N**±.069	**165.49W**±.075	**73**±4.2	**4.0b**	**67**	**0-121**
EIDC	VIII	17 05 31 33.0	53.9N	165.6W	26	3.9b,3.7L		¶97viii2489
NEIC	VIII	17 05 31 37.9	53.81N	165.39W	59	4.2b		
NEIC		M_L4.6(AEIC), M_L4.4(PMR), After AEIC.						
ISC	**VIII**	**17 05 39 05**±2.5	**53.9N**±.56	**165.5W**±.33	**68**		**7**	**0-2**
NEIC	VIII	17 05 39 04.8	53.89N	165.34W	68			¶97viii2491
NEIC		M_L3.3(AEIC), After AEIC.						
ISC	**VIII**	**17 11 08 40**±2.5	**53.7N**±.42	**165.4W**±.19	**65**		**7**	**0-3**
NEIC	VIII	17 11 08 40.3	53.83N	165.30W	65			¶97viii2529
NEIC		M_L3.2(AEIC), After AEIC.						
ISC	**VIII**	**17 11 58 05**±2.2	**53.8N**±.43	**165.4W**±.29	**63**±31		**10**	**0-14**
NEIC	VIII	17 11 58 05.0	53.84N	165.34W	61			¶97viii2537
NEIC		M_L3.7(AEIC), After AEIC.						
ISC	**VIII**	**20 23 02 52**±3.8	**54.2N**±.57	**166.2W**±.28	**21**		**7**	**0-1**
NEIC	VIII	20 23 02 49.0	54.48N	166.16W	21			¶97viii3031
NEIC		M_L2.5(AEIC), After AEIC.						
ISC	**VIII**	**24 12 21 24**±3.5	**53.6N**±.46	**165.2W**±.24	**63**		**9**	**1-2**
NEIC	VIII	24 12 21 26.9	53.88N	165.42W	63			¶97viii3527
NEIC		M_L3.2(AEIC), After AEIC.						
ISC	**VIII**	**26 19 57 03**±1.8	**52.3N**±.13	**170.1W**±.10	**57**±16	**4.1b**	**24**	**4-90**
NEIC	VIII	26 19 57 03.3	52.30N	170.09W	64	4.5b		¶97viii3895
EIDC	VIII	26 19 57 05.1	52.3N	170.2W	65	3.8b,3.7L		
NEIC	**IX**	**07 19 31 45.2**	**53.82N**	**165.13W**	**64**			**0-1**
NEIC		M_L2.9(AEIC), After AEIC.						¶97ix1116
NEIC	**IX**	**13 06 00 20.7**	**53.42N**	**165.22W**	**25**			**1-1**
NEIC		M_L2.7(AEIC), After AEIC.						¶97ix1930
ISC	**IX**	**14 13 16 24**±1.1	**52.8N**±.24	**170.1W**±.20	**100**	**3.7b**	**7**	**4-76**
EIDC	IX	14 13 16 12.7	52.5N	170.3W	0	3.7b,3.2L		¶97ix2128
NEIC	IX	14 13 16 15.8	52.54N	170.24W	33			
NEIC		Poor solution.						
ISC	**IX**	**17 14 25 27.7**±.38	**54.11N**±.053	**165.11W**±.054	**78**±3.5	**4.4b**	**101**	**1-154**
BJI	IX	17 14 25 22.6	53.90N	164.90W	57			¶97ix2520
EIDC	IX	17 14 25 27.5	54.0N	165.3W	66	4.1b		
NEIC	IX	17 14 25 28.6	53.86N	164.94W	57	4.6b		
NEIC		M_L4.6(AEIC), After AEIC.						
ISC	**IX**	**21 22 03 05.4**±.21	**51.99N**±.044	**170.60W**±.037	**35**±3.0*	**5.2b,4.7s**	**376**	**4-154**
EIDC	IX	21 22 03 01.4	52.1N	170.7W	0	5.0b,4.6s		¶97ix3172
BJI	IX	21 22 03 02.9	52.08N	171.14W	13	5.3b,5.0s		
NEIC	IX	21 22 03 04.9	51.99N	170.57W	33	5.2b,4.7s		
MOS	IX	21 22 03 05.3	52.0N	170.6W	33	5.8b,4.7s		
HRVD	IX	21 22 03 06.0±.4	51.95N±.04	170.32W±.07	32±3.1			
NEIC		M_L5.4(PMR), Mw5.2(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c55; Half duration: 1$\dot{s}$0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.85±.29; $M_{\theta\theta}$−4.81±.30; $M_{\phi\phi}$−1.04±.30; $M_{r\theta}$4.86±.82; $M_{r\phi}$3.40±.83; $M_{\theta\phi}$−2.55±.44. Principal Axes: T 8.33,Plg67°,Azm319°; N 0.19, Plg4°,Azm59°; P −8.51,Plg22°,Azm151°. Best double couple: $M_0$8.4×10^{16}Nm, NP1:ϕ_S250°, δ23°,λ101°. NP2:ϕ_S57°,δ67°,λ85°.						
ISC	**IX**	**25 10 59 34**±2.2	**52.4N**±.20	**170.8W**±.16	**36**±22	**4.1b**	**15**	**4-76**
EIDC	IX	25 10 59 29.7	52.2N	170.7W	0	4.1b,3.7L		¶97ix3730
NEIC	IX	25 10 59 33.9	52.36N	170.80W	33	4.0b		
NEIC		Less reliable solution.						
ISC	**X**	**01 13 49 23**±7.5	**52.9N**±.38	**166.1W**±.40	**88**±61	**3.6b**	**7**	**9-78**
NEIC	X	01 13 49 15.9	52.69N	166.26W	33			¶97x0096
EIDC	X	01 13 49 17.9	52.8N	166.2W	34	3.5b,3.2L		
NEIC		Poor solution.						
ISC	**X**	**02 08 18 23**±1.5	**52.3N**±.10	**170.71W**±.090	**56**±13	**4.2b**,3.5s	**45**	**4-153**
NEIC	X	02 08 18 20.0	52.34N	170.68W	33	4.4b		¶97x0240
EIDC	X	02 08 18 23.1	52.3N	170.7W	45	4.0b,3.8L		
NEIC		$M_{L4.2}$(PMR).						
ISC	**X**	**09 22 16 08**±9.5	**53.1N**±.58	**166.5W**±.64	**0**		**10**	**1-4**
NEIC	X	09 22 16 11.0	53.26N	166.59W	0			¶97x1651
NEIC		M_L3.2(AEIC), After AEIC.						
ISC	**X**	**12 02 12 31**±2.3	**52.1N**±.18	**171.2W**±.18	**51**±22	**4.0b**	**12**	**3-122**
EIDC	X	12 02 12 25.6	51.9N	171.3W	0	4.0b,3.6L		¶97x1973
NEIC	X	12 02 12 29.6	52.02N	171.08W	33			
NEIC		Less reliable solution.						
ISC	**X**	**12 10 33 27**±3.1	**52.5N**±.40	**172.0W**±.42	**82**±30	**3.5b**	**5**	**3-89**
EIDC	X	12 10 33 18.0	52.1N	172.0W	0	3.7b,3.7L		¶97x2023
NEIC	X	12 10 33 28.7	52.63N	172.07W	100			
ISC		Poorly determined						
NEIC		Poor solution.						
ISC	**X**	**20 19 34 35**±1.7	**52.1N**±.16	**170.8W**±.14	**42**±15	**3.9b**,4.0s	**19**	**4-154**
EIDC	X	20 19 34 30.5	52.0N	170.7W	0	4.1b,4.0s		¶97x3551
NEIC	X	20 19 34 34.1	52.11N	170.76W	33	3.8b		
NEIC		Less reliable solution.						
ISC	**X**	**23 07 31 29**±5.3	**53.2N**±.57	**165.1W**±.13	**33**		**12**	**1-3**
NEIC	X	23 07 31 29.2	53.20N	165.07W	33			¶97x3942
NEIC		M_L2.7(AEIC), Less reliable solution.						
ISC	**X**	**27 15 44 55.8**±.81	**52.88N**±.048	**171.82W**±.044	**126**±7.3	**4.8b**	**202**	**3-161**
BJI	X	27 15 44 56.7	52.41N	171.66W	160	4.8b		¶97x4629
EIDC	X	27 15 44 57.0	52.8N	171.7W	129	4.5b,3.4s		
NEIC	X	27 15 44 57.2	52.89N	171.80W	141	4.7b		
ISC	**X**	**29 21 55 18**±2.1	**52.4N**±.29	**166.2W**±.35	**33**	**3.8b**	**4**	**16-51**
EIDC	X	29 21 55 14.3	52.3N	166.2W	0	3.9b,3.5L		¶97x4956
ISC		Poorly determined						
NEIC	**X**	**29 22 42 13.5**	**53.37N**	**165.90W**	**48**			**1-4**
NEIC		M_L3.1(AEIC), After AEIC.						¶97x4959
ISC	**XI**	**01 10 17 12**±4.6	**52.5N**±.11	**168.3W**±.11	**5**±27	**4.5b**	**47**	**5-91**
EIDC	XI	01 10 17 12.1	52.5N	168.3W	0	4.2b,3.9L		¶97xi0064
BJI	XI	01 10 17 15.5	52.28N	168.24W	42	4.7b		
NEIC	XI	01 10 17 15.9	52.59N	168.22W	33	4.5b		
NEIC		Less reliable solution.						
NEIC	**XI**	**04 10 43 01.6**	**53.76N**	**165.77W**	**65**			**1-3**
NEIC		M_L2.8(AEIC), After AEIC.						¶97xi0620
NEIC	**XI**	**05 19 45 04.5**	**53.32N**	**165.80W**	**25**			**1-1**
NEIC		M_L2.9(AEIC), After AEIC.						¶97xi0852
ISC	**XI**	**06 12 32 24**±4.6	**53.6N**±.22	**168.5W**±.31	**84**±40	**3.9b**	**12**	**10-92**
EIDC	XI	06 12 32 24.6	53.7N	168.6W	74	3.7b,4.4L		¶97xi0976
NEIC	XI	06 12 32 26.0	53.68N	168.41W	100	4.0b		
NEIC		Less reliable solution.						
ISC	**XI**	**09 11 19 57**±5.6	**53.6N**±.78	**166.2W**±.22	**72**		**7**	**0-3**
NEIC	XI	09 11 19 58.1	53.55N	166.25W	72			¶97xi1441
NEIC		After AEIC.						
ISC	**XI**	**15 20 05 15**±5.6	**53.1N**±.53	**165.38W**±.098	**8**		**12**	**1-4**
NEIC	XI	15 20 05 20.1	53.52N	165.48W	8			¶97xi2528
NEIC		M_L3.2(AEIC), After AEIC.						
ISC	**XI**	**17 10 27 54**±2.1	**52.22N**±.046	**170.29W**±.043	**10**±12	**5.1b,4.8s**	**291**	**3-154**
EIDC	XI	17 10 27 53.5	52.3N	170.2W	0	4.8b,4.7s		¶97xi2776
BJI	XI	17 10 27 56.4	52.44N	170.43W	30	5.2b,5.2s		
NEIC	XI	17 10 27 57.1	52.23N	170.17W	33	5.1b,4.8s		
MOS	XI	17 10 27 57.8	52.4N	170.3W	33	5.4b,4.8s		
HRVD	XI	17 10 28 00.8±.5	52.22N±.04	170.15W±.07	51±3.0			
NEIC		Mw5.4(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c46; Half duration: 1$\dot{s}$2. Moment tensor: Scale 10^{16}Nm; M_{rr}9.01±.33; $M_{\theta\theta}$−8.71±.45; $M_{\phi\phi}$−0.30±.45; $M_{r\theta}$5.58±.68; $M_{r\phi}$4.75±.76; $M_{\theta\phi}$−4.41±.57. Principal Axes: T 11.7,Plg69°,Azm302°; N 1.2, Plg10°,Azm61°; P −12.9,Plg18°,Azm154°. Best double couple: $M_0$1.2×10^{17}Nm, NP1: ϕ_S260°,δ29°,λ112°. NP2:ϕ_S55°,δ64°,λ78°.						
ISC	**XI**	**17 13 58 54.3**±.27	**52.28N**±.058	**170.13W**±.052	**35**±4.2*	**4.7b,4.6s**	**114**	**4-154**
EIDC	XI	17 13 58 50.3	52.3N	170.1W	0	4.6b,4.5s		¶97xi2811
BJI	XI	17 13 58 53.3	52.29N	170.37W	32	5.1b,5.0s		
NEIC	XI	17 13 58 53.9	52.27N	170.10W	33	4.8b,4.7s		
HRVD	XI	17 13 58 58.4±1.0	52.22N±.09	170.13W±.12	46±4.9			
NEIC		Mw5.2(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c38; Half duration: 1$\dot{s}$0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.67±.32; $M_{\theta\theta}$−4.54±.37; $M_{\phi\phi}$−0.13±.44; $M_{r\theta}$3.26±.73; $M_{r\phi}$0.62±.87; $M_{\theta\phi}$−2.16±.52. Principal Axes: T 5.71,Plg72°,Azm0°; N 0.67, Plg6°,Azm251°; P −6.38,Plg17°,Azm159°. Best double couple: $M_0$6.0×10^{16}Nm, NP1: ϕ_S240°,δ29°,λ78°. NP2:ϕ_S74°,δ62°,λ97°.						
ISC	**XI**	**17 15 58 28**±3.0	**52.4N**±.11	**170.10W**±.083	**18**±22	**4.1b,3.8s**	**39**	**4-90**
EIDC	XI	17 15 58 25.8	52.3N	170.1W	0	4.1b,3.8s		¶97xi2824
BJI	XI	17 15 58 28.6	53.15N	170.89W	5	4.8b		
NEIC	XI	17 15 58 29.5	52.44N	170.08W	33	4.5b		
ISC	**XI**	**19 14 12 16.6**±.87	**52.1N**±.21	**171.2W**±.21	**33**	**3.8b**	**10**	**7-89**
EIDC	XI	19 14 12 13.0	51.9N	171.2W	0	4.0b,3.4L		¶97xi3235
NEIC	XI	19 14 12 16.5	52.06N	171.18W	33			
NEIC		Less reliable solution.						
ISC	**XI**	**23 06 58 09.7**±.29	**52.11N**±.058	**169.88W**±.049	**42**±2.2*	**4.9b,4.8s**	**193**	**4-150**
BJI	XI	23 06 58 07.1	52.23N	170.01W	30	5.1b,5.2s		¶97xi4058
EIDC	XI	23 06 58 08.1	52.1N	169.9W	22	4.5b,4.7s		
NEIC	XI	23 06 58 08.4	52.10N	169.83W	33	5.1b,4.8s		
MOS	XI	23 06 58 09.3	52.3N	170.0W	33	5.3b,4.9s		
HRVD	XI	23 06 58 10.9±.7	51.91N±.07	169.91W±.20	15			
NEIC		Mw5.2(HRV), M_L4.8(PMR).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c28; Half duration: 1$\dot{s}$1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.45±.39; $M_{\theta\theta}$−4.70±.34; $M_{\phi\phi}$−0.75±.44; $M_{r\theta}$4.88±1.18; $M_{r\phi}$0.75±1.51; $M_{\theta\phi}$−2.54±.65. Principal Axes: T 7.42,Plg67°,Azm5°; N 0.24, Plg9°,Azm251°; P −7.67,Plg20°,Azm158°. Best double couple: $M_0$7.6×10^{16}Nm, NP1: ϕ_S231°,δ26°,λ68°. NP2:ϕ_S75°,δ66°,λ100°.						
ISC	**XI**	**24 01 09 31.0**±.22	**51.87N**±.048	**169.99W**±.041	**41**±.6*	**5.2b,4.6s**	**341**	**4-151**
EIDC	XI	24 01 09 26.2	52.0N	169.9W	0	5.0b,4.5s		¶97xi4239
BJI	XI	24 01 09 28.8	52.06N	170.09W	29	5.5b,5.1s		
NEIC	XI	24 01 09 30.1	51.95N	169.87W	33	5.3b,4.5s		
MOS	XI	24 01 09 30.9	52.2N	169.9W	35	5.7b,4.6s		
HRVD	XI	24 01 09 31.5±.9	51.78N±.07	170.02W±.18	33±6.0			
NEIC		Mw5.1(HRV), M_L5.1(PMR).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c29; Half duration: 1$\dot{s}$0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.60±.40; $M_{\theta\theta}$−3.59±.31; $M_{\phi\phi}$−0.01±.52; $M_{r\theta}$3.60±1.07; $M_{r\phi}$1.48±1.07; $M_{\theta\phi}$−1.75±.66. Principal Axes: T 5.20,Plg68°,Azm338°; N 0.70,Plg0°,Azm68°; P −5.90,Plg22°,Azm158°. Best double couple: $M_0$5.6×10^{16}Nm, NP1: ϕ_S248°,δ23°,λ90°. NP2:ϕ_S68°,δ67°,λ90°.						
ISC	**XI**	**25 21 17 06.5**±.95	**52.1N**±.17	**170.0W**±.22	**33**	**3.9b**	**12**	**17-90**
EIDC	XI	25 21 17 03.0	52.0N	170.0W	0	3.9b,3.4L		¶97xi4582
NEIC	XI	25 21 17 06.4	52.02N	169.91W	33			
NEIC		Less reliable solution.						
ISC	**XI**	**26 16 29 43**±3.9	**53.8N**±.67	**165.2W**±.34	**52**		**15**	**1-3**
NEIC	XI	26 16 29 44.2	53.79N	165.29W	52			¶97xi4719
NEIC		M_L3.3(AEIC), After AEIC.						
NEIC	**XII**	**07 13 21 50.9**	**53.93N**	**165.50W**	**75**			**1-3**
NEIC		After AEIC.						¶97xii1705
ISC	**XII**	**08 17 38 40**±1.1	**51.9N**±.19	**170.4W**±.14	**33**	**3.8b**	**14**	**4-76**
NEIC	XII	08 17 38 39.6	51.92N	170.30W	33	3.6b		¶97xii1976
EIDC	XII	08 17 38 43.4±7.11	51.9N	170.3W	44±64.2	3.6b,3.3L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=44.5km semi−minor=17.4km azimuth=6						
ISC	**XII**	**09 23 51 36**±1.1	**52.4N**±.23	**170.3W**±.19	**33**	**3.5b**	**8**	**4-79**
EIDC	XII	09 23 51 32.8±1.63	52.4N	170.3W	0	3.6b,3.2L		¶97xii2261
NEIC	XII	09 23 51 35.7	52.37N	170.24W	33	3.4b		
EIDC		Error ellipse is semi−major=45.5km semi−minor=27.3km azimuth=165						
NEIC		Poor solution.						
ISC	**XII**	**11 03 49 58.8**±.80	**52.0N**±.16	**170.2W**±.14	**45**±1.7*	**4.1b**	**22**	**4-123**
NEIC	XII	11 03 49 57.0	51.97N	170.27W	33	3.8b		¶97xii2483
EIDC	XII	11 03 50 00.3±1.00	51.9N	170.3W	45±7.1	3.9b,4.0L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=27.2km semi−minor=17.4km azimuth=177						
ISC	**XII**	**14 21 38 16**±2.6	**52.6N**±.21	**169.6W**±.22	**43**±28	**3.7b**	**9**	**4-76**
EIDC	XII	14 21 38 11.1±1.45	52.5N	169.7W	0	3.8b		¶97xii3200
NEIC	XII	14 21 38 14.9	52.59N	169.59W	33	3.6b		

EIDC Error ellipse is semi−major=42.5km semi−minor=24.5km azimuth=174
NEIC Less reliable solution.
ISC XII 15 08 54 41±4.5 **53.8N**±.31 **168.0W**±.43 **74**±60 **3.6b** **7 6-92**
NEIC XII 15 08 54 38.1 53.87N 167.77W 33 **¶97xii3260**
EIDC XII 15 08 55 01.4 54.3N 167.2W 216±114.7 3.2b
NEIC Poor solution.
EIDC Origin time error = 12.39Error ellipse is semi−major=55.9km semi−minor=41.9km azimuth=34
ISC XII 16 10 53 20.6±.90 **53.9N**±.54 **166.5W**±.40 **78** **11 0-4**
NEIC XII 16 10 53 20.3 53.68N 166.35W 78 **¶97xii3440**
NEIC After AEIC.
ISC XII 21 00 30 22±9.3 **52.7N**±.21 **167.2W**±.21 **12**±60 **3.6b** **10 6-66**
EIDC XII 21 00 30 21.7±2.92 52.7N 167.2W 0 3.6b,3.0L **¶97xii4186**
NEIC XII 21 00 30 24.0 52.70N 167.23W 33 3.8b
EIDC Error ellipse is semi−major=58.0km semi−minor=34.2km azimuth=46
NEIC Less reliable solution.
ISC XII 21 03 55 02±2.4 **53.7N**±.26 **165.8W**±.39 **33** **3.5b** **6 3-65**
EIDC XII 21 03 54 58.7±2.84 53.6N 165.7W 0 3.6b,3.0L **¶97xii4207**
NEIC XII 21 03 55 01.5 53.73N 165.81W 33 3.3b
EIDC Error ellipse is semi−major=53.9km semi−minor=38.3km azimuth=44
NEIC Poor solution.
EIDC XII 27 21 26 33.9±2.02 **53.8N** **171.3W** **30**±11.3 3.2b,3.5L **17-75**
¶97xii5353
EIDC Error ellipse is semi−major=99.9km semi−minor=32.7km azimuth=170
ISC XII 30 22 33 10.2±.46 **51.94N**±.090 **170.02W**±.074 **36**±3.3* **4.6b,4.2s** **109 4-154**
EIDC XII 30 22 33 06.3±.72 52.0N 170.0W 0 4.4b,3.9s **¶97xii5795**
BJI XII 30 22 33 07.7 52.15N 170.08W 24 5.0b,4.9s
NEIC XII 30 22 33 10.1 52.04N 169.96W 33 4.8b
EIDC Error ellipse is semi−major=21.5km semi−minor=12.9km azimuth=170
NEIC $M_{L4.2}$(PMR).
ISC XII 31 12 35 03.7±.39 **53.03N**±.062 **165.48W**±.058 **33** **4.5b,3.9s** **71 1-93**
EIDC XII 31 12 35 01.0±.87 53.3N 165.5W 0 4.3b,3.7s **¶97xii5895**
NEIC XII 31 12 35 03.5 52.97N 165.51W 33 4.2b
BJI XII 31 12 35 05.9 53.35N 166.31W 33 4.9b,4.8s
EIDC Error ellipse is semi−major=25.8km semi−minor=11.1km azimuth=171
NEIC $M_{L4.6}$(PMR), $M_{L4.1}$(AEIC).

(10) Unimak Island region.

ISC VII 09 12 17 27±1.2 **54.0N**±.22 **164.2W**±.21 **33** **3.6b** **10 3-79**
NEIC VII 09 12 17 27.0 53.95N 164.15W 33 3.3b **¶97vii1335**
EIDC VII 09 12 17 28.9 53.9N 162.9W 0 3.7b,3.7L
NEIC Less reliable solution.
ISC VII 15 13 38 24±2.3 **53.4N**±.25 **164.92W**±.092 **16** **13 1-3**
NEIC VII 15 13 38 27.4 53.65N 165.03W 16 **¶97vii2310**
NEIC M_L2.6(AEIC), After AEIC.
ISC VII 23 06 41 35±2.8 **54.0N**±.40 **164.1W**±.33 **17** **9 1-2**
NEIC VII 23 06 41 37.0 54.08N 164.26W 17 **¶97vii3490**
NEIC M_L3.0(AEIC), After AEIC.
ISC VIII 07 09 23 24.6±.95 **53.8N**±.19 **165.0W**±.14 **73**±13 **3.8b** **30 1-50**
NEIC VIII 07 09 23 26.5 53.90N 165.11W 64 **¶97viii0916**
EIDC VIII 07 09 23 28.8 54.1N 165.5W 120 3.5b
NEIC M_L4.1(AEIC), After AEIC.
ISC VIII 09 17 23 31.6±.69 **54.1N**±.12 **164.20W**±.092 **59**±4.8 **4.1b**,3.8s **52 1-145**
BJI VIII 09 17 23 25.4 53.80N 164.00W 33 4.7b **¶97viii1293**
EIDC VIII 09 17 23 30.3 54.2N 164.5W 31 3.8b,3.7s
NEIC VIII 09 17 23 31.4 53.81N 164.02W 34 4.4b
NEIC M_L3.9(AEIC), After AEIC.
ISC VIII 12 04 37 47±2.2 **53.7N**±.32 **164.9W**±.14 **61** **13 1-8**
NEIC VIII 12 04 37 49.7 53.91N 165.12W 61 **¶97viii1679**
NEIC M_L3.6(AEIC), After AEIC.
ISC VIII 15 16 36 53±3.2 **53.3N**±.32 **164.7W**±.12 **3** **9 1-3**
NEIC VIII 15 16 36 57.7 53.56N 164.89W 3 **¶97viii2240**
NEIC M_L3.2(PMR), M_L3.1(AEIC), After AEIC.
ISC VIII 17 06 08 51±4.5 **53.8N**±.77 **164.9W**±.41 **64** **7 1-2**
NEIC VIII 17 06 08 50.9 53.95N 164.83W 64 **¶97viii2495**
NEIC M_L2.5(AEIC), After AEIC.
ISC VIII 17 18 51 12±2.2 **53.4N**±.25 **163.4W**±.17 **38**±11 **4.2b** **26 2-80**
NEIC VIII 17 18 51 11.2 53.28N 163.35W 33 4.4b **¶97viii2572**
EIDC VIII 17 18 51 16.3 54.7N 164.8W 0 4.2b,4.4L
NEIC M_L3.7(AEIC), Less reliable solution.
ISC VIII 17 21 55 32±1.6 **53.5N**±.18 **163.6W**±.12 **38**±9.6 **3.7b** **25 1-85**
EIDC VIII 17 21 55 29.6 53.7N 163.8W 0 3.7b,3.1L **¶97viii2590**
NEIC VIII 17 21 55 31.6 53.46N 163.55W 33
NEIC M_L4.1(PMR), M_L3.7(AEIC), Less reliable solution.
ISC VIII 20 15 45 17.2±.87 **54.1N**±.15 **164.2W**±.12 **53**±6.8 **3.7b** **24 1-85**
NEIC VIII 20 15 45 11.9 53.64N 163.97W 10 **¶97viii2984**
EIDC VIII 20 15 45 12.0 54.1N 164.4W 0 3.7b,2.9L
NEIC $M_{L4.0}$(PMR), $M_{L3.7}$(AEIC).
NEIC VIII 22 07 41 13.7 **54.58N** **163.21W** **10** **1-2**
NEIC M_L2.7(AEIC), After AEIC. **¶97viii3194**
ISC IX 02 07 52 04.9±.38 **54.41N**±.079 **164.98W**±.087 **86**±4.6 **3.9b** **57 1-145**
EIDC IX 02 07 51 55.1 54.3N 165.3W 0 4.1b,3.2s **¶97ix0239**
NEIC IX 02 07 52 05.2 54.08N 164.71W 73 4.0b
NEIC Felt, After AEIC.
NEIC Felt on Akutan.
ISC IX 30 14 04 01±3.7 **53.9N**±.64 **164.2W**±.46 **76** **14 1-3**
NEIC IX 30 14 04 03.1 54.23N 164.37W 76 **¶97ix5243**
NEIC After AEIC.
ISC X 02 04 36 33±6.0 **54.5N**±.20 **163.4W**±.18 **8**±47 **16 1-2**
NEIC X 02 04 36 33.7 54.54N 163.51W 8 **¶97x0206**
NEIC M_L3.1(AEIC), After AEIC.
ISC X 18 08 43 21±7.6 **54.4N**±.32 **163.6W**±.41 **69**±60 **3.7b** **8 13-79**
EIDC X 18 08 43 13.2 54.2N 163.7W 0 3.9b,3.2L **¶97x3124**
NEIC X 18 08 43 16.5 54.30N 163.75W 33
NEIC Poor solution.
ISC X 19 03 38 51±1.1 **53.9N**±.18 **164.0W**±.14 **110**±6.1 **3.9b** **78 1-145**
EIDC X 19 03 38 52.3 54.4N 164.7W 67 3.7b,3.6L **¶97x3279**
NEIC X 19 03 38 54.4 53.98N 163.98W 45 4.0b
NEIC M_L4.0(AEIC), After AEIC.
ISC X 20 10 51 11±1.8 **54.0N**±.38 **164.4W**±.27 **75** **12 1-3**
NEIC X 20 10 51 12.1 54.18N 164.57W 75 **¶97x3485**
NEIC After AEIC.
ISC X 24 07 29 27.0±.94 **54.5N**±.16 **163.4W**±.18 **5** **15 1-2**
NEIC X 24 07 29 27.3 54.58N 163.49W 5 **¶97x4120**
NEIC M_L2.8(AEIC), After AEIC.
ISC X 24 20 14 40±1.4 **53.4N**±.21 **164.2W**±.20 **33** **3.9b** **9 8-79**
EIDC X 24 20 14 36.7 53.3N 164.3W 0 3.9b,3.4L **¶97x4217**
NEIC X 24 20 14 39.8 53.43N 164.17W 33
NEIC Poor solution.
NEIC XI 27 06 10 01.1 **53.77N** **164.27W** **25** **2-2**
NEIC M_L3.3(AEIC), After AEIC. **¶97xi4809**
ISC XII 10 08 35 56±3.2 **53.7N**±.38 **163.9W**±.30 **25** **19 2-3**
NEIC XII 10 08 35 57.1 53.76N 163.80W 25 **¶97xii2318**
NEIC M_L3.6(AEIC), After AEIC.
ISC XII 15 10 05 51±3.0 **53.8N**±.37 **163.8W**±.30 **7** **18 1-2**
NEIC XII 15 10 05 55.0 54.05N 163.97W 7 **¶97xii3264**
NEIC M_L3.4(AEIC), After AEIC.
ISC XII 16 18 15 18±2.8 **53.4N**±.29 **164.0W**±.18 **7** **18 1-3**
NEIC XII 16 18 15 21.8 53.75N 164.16W 7 **¶97xii3485**
NEIC M_L3.5(AEIC), After AEIC.
ISC XII 16 19 04 22±9.4 **53.1N**±.87 **163.8W**±.56 **5** **15 2-3**
NEIC XII 16 19 04 30.8 53.82N 164.28W 5 **¶97xii3489**
NEIC M_L2.8(AEIC), After AEIC.
ISC XII 16 19 17 12±1.1 **53.8N**±.16 **164.2W**±.12 **49**±5.6 **4.1b** **77 1-121**
BJI XII 16 19 17 02.5 53.80N 164.20W 2 4.7b **¶97xii3492**
EIDC XII 16 19 17 08.0±2.34 54.4N 164.9W 0 3.9b,3.7L
NEIC XII 16 19 17 09.5 53.73N 164.16W 2 4.1b
EIDC Error ellipse is semi−major=58.8km semi−minor=23.8km azimuth=179
NEIC M_L3.7(AEIC), After AEIC.
ISC XII 18 09 24 40.0±.66 **53.91N**±.097 **163.81W**±.087 **10** **4.0b** **67 1-65**
EIDC XII 18 09 24 42.1±2.61 54.2N 163.9W 0 4.0b,4.1L **¶97xii3742**
NEIC XII 18 09 24 43.7 54.08N 164.06W 10
EIDC Error ellipse is semi−major=45.3km semi−minor=31.4km azimuth=58
NEIC M_L4.0(AEIC), After AEIC.
ISC XII 29 02 49 28±2.0 **53.7N**±.26 **164.2W**±.18 **27** **17 2-8**
NEIC XII 29 02 49 29.9 53.76N 164.25W 27 **¶97xii5536**
NEIC M_L3.2(AEIC), After AEIC.

(12) Alaska Peninsula.

ISC VII 01 01 40 34±1.2 **55.7N**±.19 **158.4W**±.21 **71** **19 1-5**
NEIC VII 01 01 40 35.3 55.58N 158.43W 71 **¶97vii0008**
NEIC After AEIC.
ISC VII 02 07 22 35±1.4 **58.28N**±.049 **154.69W**±.091 **10**±13 3.1b,2.8s **39 1-32**
NEIC VII 02 07 22 36.0 58.29N 154.75W 11 **¶97vii0199**
EIDC VII 02 07 22 39.3 58.5N 155.6W 53 2.9b,2.8s
NEIC M_L3.5(AEIC), M_L3.2(PMR), After AEIC.
ISC VII 07 19 04 12±4.2 **54.2N**±.29 **161.2W**±.17 **0** **13 1-6**
NEIC VII 07 19 04 17.4 54.52N 161.41W 0 **¶97vii1077**
NEIC M_L3.2(AEIC), After AEIC.
ISC VII 16 06 04 09±3.4 **57.54N**±.069 **156.4W**±.14 **7**±23 **3.8b** **53 1-99**
EIDC VII 16 06 03 55.6 57.5N 159.4W 0 3.8b,3.6L **¶97vii2396**
NEIC VII 16 06 04 06.7 57.45N 156.37W 0 3.9b
NEIC M_L3.9(PMR), M_L3.8(AEIC), After AEIC.
ISC VII 17 01 35 35±1.9 **58.86N**±.093 **154.6W**±.22 **148**±17 **19 0-7**
NEIC VII 17 01 35 39.0 58.91N 154.56W 117 **¶97vii2529**
NEIC After AEIC.
ISC VII 18 12 15 05±2.0 **58.82N**±.083 **154.8W**±.28 **166**±15 **31 1-7**
NEIC VII 18 12 15 09.8 58.91N 154.67W 128 **¶97vii2734**
NEIC After AEIC.
ISC VII 20 04 03 41±1.2 **57.7N**±.11 **155.5W**±.19 **111**±16 **16 0-6**
NEIC VII 20 04 03 43.8 57.72N 155.65W 90 **¶97vii3010**
NEIC After AEIC.
ISC VII 20 18 34 42±3.7 **56.6N**±.17 **155.4W**±.21 **28**±32 **3.5b** **9 2-62**
EIDC VII 20 18 34 39.8 56.5N 155.5W 0 3.5b,3.3L **¶97vii3132**
NEIC VII 20 18 34 42.1 56.59N 155.41W 33
NEIC Poor solution.
NEIC VII 20 19 19 38.2 **57.76N** **156.45W** **128** **2-8**
NEIC After AEIC. **¶97vii3139**
ISC VII 21 10 32 23±1.2 **56.2N**±.12 **156.4W**±.17 **88**±20 3.4b **12 2-46**
EIDC VII 21 10 31 57.9 56.1N 161.4W 0 3.7L,3.6b **¶97vii3229**
NEIC VII 21 10 32 23.1 56.19N 156.43W 100
NEIC Less reliable solution.
ISC VII 22 19 44 21±2.9 **54.8N**±.19 **161.1W**±.18 **14** **13 1-1**
NEIC VII 22 19 44 21.1 54.80N 161.15W 14 **¶97vii3425**
NEIC M_L3.0(AEIC), After AEIC.
ISC VII 23 01 00 58±1.9 **54.6N**±.21 **161.1W**±.12 **58**±9.3 **3.6b** **18 1-81**
NEIC VII 23 01 00 57.7 54.58N 161.13W 8 **¶97vii3463**
EIDC VII 23 01 00 58.2 55.6N 162.6W 0 3.7b,3.3L
NEIC M_L3.6(AEIC), After AEIC.
ISC VII 23 07 14 58.9±.59 **56.3N**±.19 **161.4W**±.22 **184**±14 3.7b **22 1-63**
EIDC VII 23 07 14 29.7 54.9N 162.7W 0 3.9b,3.6L **¶97vii3495**
NEIC VII 23 07 15 00.5 56.17N 161.43W 188
NEIC After AEIC.
ISC VIII 01 22 44 44±1.4 **58.71N**±.075 **155.1W**±.18 **157**±13 **36 1-7**
NEIC VIII 01 22 44 47.1 58.78N 155.12W 132 **¶97viii0127**
NEIC After AEIC.
ISC VIII 02 02 37 07±2.3 **54.8N**±.18 **160.7W**±.13 **15** **13 0-1**
NEIC VIII 02 02 37 07.7 54.77N 160.62W 15 **¶97viii0157**
NEIC M_L3.1(AEIC), After AEIC.
ISC VIII 05 20 28 23±1.1 **57.2N**±.19 **155.9W**±.28 **15** **11 2-6**
NEIC VIII 05 20 28 24.9 56.76N 155.12W 15 **¶97viii0708**
NEIC M_L3.0(AEIC), After AEIC.
ISC VIII 05 22 09 15±1.7 **55.4N**±.17 **160.3W**±.16 **73**±23 **14 0-4**
NEIC VIII 05 22 09 16.0 55.40N 160.35W 70 **¶97viii0723**
NEIC M_L2.8(AEIC), After AEIC.
ISC VIII 07 07 56 23±1.9 **55.7N**±.25 **157.9W**±.29 **33** **6 2-6**
NEIC VIII 07 07 56 23.3 55.73N 157.92W 33 **¶97viii0906**
NEIC M_L3.6(PMR). Felt I=II MM, Less reliable solution.
NEIC Felt I=II MM at Chignik.
ISC VIII 09 05 46 45.1±.89 **56.0N**±.15 **157.9W**±.19 **8** **23 2-10**
NEIC VIII 09 05 46 48.0 56.06N 158.02W 8 **¶97viii1208**
NEIC M_L3.8(AEIC), After AEIC.
ISC VIII 14 16 04 29.3±.41 **56.29N**±.085 **159.0W**±.13 **95**±8.8 **3.4b** **29 1-122**
EIDC VIII 14 16 04 28.1 56.4N 159.1W 70 3.3b,3.8L **¶97viii2091**
NEIC VIII 14 16 04 29.4 56.28N 159.01W 98
ISC VIII 15 16 23 52±3.3 **54.4N**±.14 **161.3W**±.13 **5**±19 **13 1-5**
NEIC VIII 15 16 23 53.1 54.40N 161.48W 0 **¶97viii2237**
NEIC M_L3.3(AEIC), After AEIC.
ISC VIII 17 19 48 32±1.9 **58.27N**±.094 **154.8W**±.22 **0** **19 1-3**
NEIC VIII 17 19 48 33.8 58.33N 154.72W 0 **¶97viii2576**
NEIC M_L2.9(AEIC), After AEIC.
ISC VIII 21 19 27 23.1±.32 **58.95N**±.041 **154.40W**±.082 **130**±4.1 **3.7b** **68 0-83**
EIDC VIII 21 19 27 22.3 59.1N 154.6W 88 3.6b **¶97viii3130**
NEIC VIII 21 19 27 25.4 58.92N 154.47W 118
NEIC After AEIC.
ISC VIII 22 12 52 59±1.8 **54.3N**±.12 **161.4W**±.13 **0** **12 1-3**
NEIC VIII 22 12 53 02.0 54.48N 161.49W 0 **¶97viii3226**
NEIC M_L3.4(AEIC), After AEIC.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 22 13 39 07**±3.7	**54.5N**±.25	**161.6W**±.14	**20**		**11**	**1-1**
NEIC	VIII 22 13 39 07.6	54.44N	161.77W	20			**¶97viii3232**
NEIC	M_L2.8(AEIC), After AEIC.						
ISC	**VIII 29 04 21 53.9**±.39	**58.99N**±.034	**154.35W**±.071	**138**±5.4		**111**	**0-8**
NEIC	VIII 29 04 21 56.0	58.98N	154.35W	125			**¶97viii4232**
NEIC	After AEIC.						
ISC	**IX 08 19 57 52.3**±.98	**56.85N**±.094	**155.2W**±.14	**29**		**19**	**1-7**
NEIC	IX 08 19 57 56.0	57.02N	155.35W	29			**¶97ix1273**
NEIC	M_L3.3(AEIC), After AEIC.						
ISC	**IX 12 09 37 28**±2.5	**55.0N**±.16	**161.4W**±.14	**50**±41		**13**	**0-1**
NEIC	IX 12 09 37 27.8	54.94N	161.46W	57			**¶97ix1798**
NEIC	M_L2.7(AEIC), After AEIC.						
ISC	**IX 17 04 05 33.5**±.86	**58.81N**±.079	**154.8W**±.17	**139**±7.4	3.7b	**24**	**0-53**
EIDC	IX 17 04 05 19.2	58.0N	154.9W	0	3.7b,4.4$_L$		**¶97ix2462**
NEIC	IX 17 04 05 37.3	58.80N	154.78W	113			
NEIC	After AEIC.						
ISC	**IX 22 16 37 00**±1.5	**58.40N**±.083	**155.5W**±.19	**158**±13		**60**	**0-9**
NEIC	IX 22 16 37 04.6	58.44N	155.28W	127			**¶97ix3305**
NEIC	After AEIC.						
ISC	**IX 22 22 18 16.5**±.88	**56.5N**±.10	**156.1W**±.17	**10**	3.4b	**33**	**2-46**
NEIC	IX 22 22 18 16.4	56.53N	156.13W	10			**¶97ix3334**
EIDC	IX 22 22 18 35.1	58.0N	154.6W	0	3.3b,3.7$_L$		
NEIC	$M_{L3.9}$(PMR), $M_{L3.7}$(AEIC).						
ISC	**IX 25 12 37 57**±1.4	**58.16N**±.077	**154.2W**±.13	**98**±18		**18**	**1-5**
NEIC	IX 25 12 38 00.0	58.18N	154.19W	66			**¶97ix3740**
NEIC	M_L2.7(AEIC), After AEIC.						
ISC	**IX 26 18 15 57**±1.1	**54.18N**±.077	**162.2W**±.12	**0**		**18**	**1-7**
NEIC	IX 26 18 16 00.2	54.36N	162.33W	0			**¶97ix4103**
NEIC	M_L3.3(AEIC), After AEIC.						
ISC	**IX 30 00 37 31**±8.0	**54.0N**±.61	**161.2W**±.21	**26**		**14**	**1-2**
NEIC	IX 30 00 37 32.7	54.09N	161.26W	26			**¶97ix5077**
NEIC	M_L3.1(AEIC), After AEIC.						
ISC	**IX 30 01 19 34.9**±.68	**57.79N**±.071	**156.3W**±.13	**134**±5.7	**3.6b**	**41**	**0-73**
EIDC	IX 30 01 19 35.0	57.9N	156.5W	109	3.4b		**¶97ix5086**
NEIC	IX 30 01 19 37.0	57.68N	156.47W	111			
NEIC	After AEIC.						
ISC	**X 02 07 48 40.6**±.85	**58.97N**±.048	**154.0W**±.12	**124**±8.7		**59**	**0-8**
NEIC	X 02 07 48 43.1	59.02N	154.13W	107			**¶97x0237**
NEIC	After AEIC.						
ISC	**X 05 22 41 56.4**±.51	**58.48N**±.055	**156.0W**±.10	**178**±7.0		**72**	**0-9**
NEIC	X 05 22 41 58.5	58.48N	156.07W	163			**¶97x0946**
NEIC	After AEIC.						
ISC	**X 06 13 24 51.7**±.97	**58.94N**±.056	**154.6W**±.13	**149**±9.5		**57**	**0-7**
NEIC	X 06 13 24 55.5	58.96N	154.59W	121			**¶97x1056**
NEIC	After AEIC.						
ISC	**X 13 00 09 23**±5.5	**54.2N**±.31	**162.4W**±.40	**3**		**13**	**1-2**
NEIC	X 13 00 09 26.4	54.38N	162.57W	3			**¶97x2133**
NEIC	M_L2.8(AEIC), After AEIC.						
ISC	**X 13 19 04 18.7**±.45	**58.22N**±.055	**156.0W**±.10	**161**±6.7		**84**	**0-8**
NEIC	X 13 19 04 20.4	58.28N	156.13W	148			**¶97x2269**
NEIC	After AEIC.						
ISC	**X 14 05 13 29**±1.5	**54.5N**±.19	**162.4W**±.18	**58**±35		**14**	**1-3**
NEIC	X 14 05 13 29.7	54.58N	162.36W	59			**¶97x2342**
NEIC	M_L2.8(AEIC), After AEIC.						
ISC	**X 30 11 57 32.4**±.32	**57.64N**±.044	**155.73W**±.069	**114**±4.2	**3.9b**	**105**	**0-160**
EIDC	X 30 11 57 30.6	57.8N	156.1W	65	3.7b		**¶97x5034**
NEIC	X 30 11 57 34.7	57.66N	155.80W	94	3.9b		
NEIC	After AEIC.						
ISC	**X 30 15 28 46.4**±.73	**58.25N**±.044	**154.87W**±.080	**6**±8.7	3.5b	**63**	**0-32**
NEIC	X 30 15 28 47.0	58.28N	154.98W	6			**¶97x5061**
EIDC	X 30 15 28 48.7	58.3N	154.7W	0	3.6b,3.7$_L$		
NEIC	M_L3.9(PMR), M_L3.6(AEIC), After AEIC.						
ISC	**XI 05 04 54 50.4**±.83	**58.86N**±.056	**154.5W**±.13	**151**±9.2		**46**	**0-8**
NEIC	XI 05 04 54 54.0	58.90N	154.56W	123			**¶97xi0733**
NEIC	After AEIC.						
ISC	**XI 06 01 36 44.9**±.44	**57.32N**±.092	**157.6W**±.16	**0**		**22**	**1-4**
NEIC	XI 06 01 36 44.2	56.96N	157.02W	0			**¶97xi0902**
NEIC	M_L3.2(AEIC), After AEIC.						
ISC	**XI 13 22 02 15.5**±.44	**56.28N**±.041	**156.88W**±.051	**47**±3.9	**4.5b,4.8s**	**135**	**2-152**
EIDC	XI 13 22 02 10.3	56.2N	157.1W	0	4.3b,4.6$_L$		**¶97xi2198**
BJI	XI 13 22 02 12.1	56.00N	156.60W	50	4.8b,5.5s		
NEIC	XI 13 22 02 17.1	56.03N	156.64W	50	4.5b		
NEIC	M_L4.6(PMR), M_L4.4(AEIC), After AEIC.						
ISC	**XI 14 16 52 41**±3.3	**57.0N**±.11	**158.4W**±.21	**23**±26	**3.8b**	**14**	**2-81**
EIDC	XI 14 16 52 39.0	57.0N	158.4W	0	3.8b,3.8$_L$		**¶97xi2321**
NEIC	XI 14 16 52 42.0	57.02N	158.36W	33			
NEIC	Less reliable solution.						
ISC	**XI 15 12 12 41.5**±.52	**56.48N**±.059	**156.69W**±.084	**55**±6.4	**3.9b**,3.4s	**60**	**2-82**
EIDC	XI 15 12 12 41.6	56.6N	156.8W	38	3.7b,4.6$_L$		**¶97xi2469**
NEIC	XI 15 12 12 43.3	56.35N	156.53W	34	4.0b		
NEIC	M_L4.3(PMR), M_L4.2(AEIC), After AEIC.						
ISC	**XI 16 08 19 18**±1.3	**55.07N**±.099	**160.2W**±.17	**0**		**13**	**0-1**
NEIC	XI 16 08 19 16.4	55.11N	159.90W	0			**¶97xi2615**
NEIC	M_L2.5(AEIC), After AEIC.						
ISC	**XI 16 16 22 04**±2.9	**58.6N**±.12	**154.2W**±.33	**94**±32		**10**	**1-3**
NEIC	XI 16 16 22 07.3	58.66N	153.93W	79			**¶97xi2667**
NEIC	After AEIC.						
ISC	**XI 21 04 27 35**±1.9	**54.1N**±.15	**162.5W**±.23	**2**		**17**	**1-3**
NEIC	XI 21 04 27 38.8	54.31N	162.42W	2			**¶97xi3581**
NEIC	M_L3.6(AEIC), After AEIC.						
ISC	**XII 02 18 34 44.6**±.54	**58.28N**±.037	**155.5W**±.11	**0**		**27**	**0-3**
NEIC	XII 02 18 34 44.3	58.27N	155.54W	0			**¶97xii0293**
NEIC	M_L2.6(AEIC), After AEIC.						
ISC	**XII 07 16 15 04**±5.6	**54.5N**±.33	**160.9W**±.31	**15**		**13**	**1-1**
NEIC	XII 07 16 15 05.4	54.45N	160.92W	15			**¶97xii1734**
NEIC	M_L2.8(AEIC), After AEIC.						
ISC	**XII 07 22 20 36**±1.1	**57.6N**±.10	**156.5W**±.22	**39**±25	3.4b	**11**	**2-21**
EIDC	XII 07 22 19 59.0±4.51	56.8N	162.8W	0	3.8b,3.1$_L$		**¶97xii1796**
NEIC	XII 07 22 20 36.3	57.64N	156.43W	33	3.4b		
EIDC	Error ellipse is semi−major=99.4km semi−minor=34.0km azimuth=172						
NEIC	M_L3.6(PMR), Less reliable solution.						
ISC	**XII 10 02 30 51**±1.5	**54.5N**±.18	**162.4W**±.22	**49**±38		**19**	**0-3**
NEIC	XII 10 02 30 51.1	54.50N	162.49W	43			**¶97xii2280**
NEIC	M_L3.0(AEIC), After AEIC.						
ISC	**XII 10 08 32 32**±4.0	**54.8N**±.26	**161.5W**±.21	**44**±54		**13**	**0-1**
NEIC	XII 10 08 32 32.2	54.83N	161.50W	56			**¶97xii2316**
NEIC	M_L2.9(AEIC), After AEIC.						
ISC	**XII 11 22 10 32**±1.2	**58.93N**±.058	**154.2W**±.16	**132**±14		**36**	**0-4**
NEIC	XII 11 22 10 34.3	58.98N	154.34W	111			**¶97xii2646**
NEIC	After AEIC.						
ISC	**XII 12 22 18 32**±5.9	**54.8N**±.31	**161.1W**±.30	**63**±53		**11**	**1-1**
NEIC	XII 12 22 18 31.7	54.77N	161.12W	72			**¶97xii2830**
NEIC	After AEIC.						
ISC	**XII 14 01 52 34**±1.5	**58.90N**±.087	**154.5W**±.23	**136**±10	3.2b	**29**	**0-32**
EIDC	XII 14 01 52 36.8±5.16	59.1N	154.2W	93±20.3	3.1b		**¶97xii3061**
NEIC	XII 14 01 52 37.0	58.89N	154.46W	120			
EIDC	Error ellipse is semi−major=69.8km semi−minor=15.7km azimuth=87						
NEIC	After AEIC.						
ISC	**XII 18 16 49 01.2**±.34	**58.24N**±.053	**155.93W**±.092	**164**±6.4		**81**	**0-21**
NEIC	XII 18 16 49 02.9	58.22N	156.04W	151	3.4b		**¶97xii3793**
NEIC	After AEIC.						
ISC	**XII 22 19 05 00**±2.4	**54.76N**±.050	**160.94W**±.060	**2**±13	**5.2b,4.9s**	**291**	**1-150**
BJI	XII 22 19 05 02.6	54.95N	160.62W	34	5.6b,5.4s		**¶97xii4470**
NEIC	XII 22 19 05 04.4	54.79N	160.83W	33	5.2b,4.9s		
MOS	XII 22 19 05 04.6	54.8N	160.8W	33	5.7b,4.9s		
HRVD	XII 22 19 05 06.6±.4	54.26N±.04	160.24W±.07	32±3.3			
EIDC	XII 22 19 05 06.7±3.15	54.8N	160.9W	46±29.6	4.8b,4.7s		
NEIC	Mw5.5(HRV), M_L5.2(PMR)						
NEIC	Felt at Cold Bay, King Cove, Perryville and Sand Point.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c61; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.28±.06; $M_{\theta\theta}$−1.19±.06; $M_{\phi\phi}$−0.09±.08; $M_{r\theta}$0.93±.19; $M_{r\phi}$0.67±.17; $M_{\theta\phi}$−0.89±.09. Principal Axes: T 1.68,Plg70°,Azm313°; N 0.40, Plg5°,Azm58°; P −2.08,Plg19°,Azm150°. Best double couple: $M_0$1.9×10^{17}Nm, NP1:ϕ_S248°, δ27°,λ102°. NP2:ϕ_S55°,δ64°,λ84°.						
EIDC	Error ellipse is semi−major=17.8km semi−minor=11.9km azimuth=5						
ISC	**XII 22 19 15 08**±13	**54.3N**±.81	**160.4W**±.91	**25**		**13**	**1-2**
NEIC	XII 22 19 15 12.4	54.45N	160.63W	25			**¶97xii4473**
NEIC	M_L3.4(AEIC), After AEIC.						
ISC	**XII 26 04 47 54.5**±.66	**58.4N**±.17	**156.0W**±.24	**148**±12		**13**	**0-21**
EIDC	XII 26 04 47 55.7±8.01	58.5N	155.9W	125±37.4	3.0b		**¶97xii5047**
NEIC	XII 26 04 47 56.7	58.27N	156.05W	141	3.2b		
EIDC	Error ellipse is semi−major=99.1km semi−minor=43.8km azimuth=51						
NEIC	After AEIC.						
ISC	**XII 29 09 16 36**±1.4	**54.1N**±.10	**162.4W**±.16	**0**		**14**	**1-3**
NEIC	XII 29 09 16 39.4	54.33N	162.52W	0			**¶97xii5568**
NEIC	M_L3.2(AEIC), After AEIC.						
ISC	**XII 30 12 02 45**±1.7	**54.78N**±.093	**161.8W**±.13	**3**		**13**	**0-3**
NEIC	XII 30 12 02 46.5	54.88N	161.88W	3			**¶97xii5732**
NEIC	M_L2.7(AEIC), After AEIC.						

(13) Kodiak Island region.

ISC	**VII 08 08 28 48.9**±.60	**57.60N**±.072	**154.3W**±.10	**93**±12		**43**	**1-8**
NEIC	VII 08 08 28 51.8	57.64N	154.46W	48			**¶97vii1155**
NEIC	M_L3.5(AEIC), After AEIC.						
ISC	**VII 15 17 21 07**±1.5	**58.67N**±.069	**153.8W**±.15	**107**±18		**17**	**0-4**
NEIC	VII 15 17 21 10.5	58.67N	153.81W	76			**¶97vii2328**
NEIC	After AEIC.						
ISC	**VII 26 09 51 43**±7.6	**56.5N**±.55	**152.3W**±.26	**27**		**32**	**1-7**
NEIC	VII 26 09 51 58.8	57.51N	152.35W	27			**¶97vii3947**
NEIC	M_L2.6(AEIC), After AEIC.						
ISC	**VIII 01 08 32 45.0**±.43	**58.92N**±.043	**152.66W**±.079	**72**±6.4	**3.3b**	**42**	**0-44**
NEIC	VIII 01 08 32 46.6	58.89N	152.77W	62			**¶97viii0041**
EIDC	VIII 01 08 32 48.0	59.1N	152.5W	56	3.0b		
NEIC	M_L4.2(PMR), M_L3.7(AEIC), After AEIC.						
ISC	**VIII 01 12 05 23**±1.8	**58.91N**±.080	**153.3W**±.24	**98**±18		**28**	**0-6**
NEIC	VIII 01 12 05 26.4	58.96N	153.27W	72			**¶97viii0058**
NEIC	After AEIC.						
ISC	**VIII 02 15 13 47**±1.3	**58.97N**±.062	**152.8W**±.14	**93**±16		**22**	**0-6**
NEIC	VIII 02 15 13 50.2	59.00N	152.79W	66			**¶97viii0230**
NEIC	M_L3.0(AEIC), After AEIC.						
ISC	**VIII 11 09 54 56.4**±.83	**58.47N**±.059	**152.4W**±.10	**68**±15		**34**	**0-7**
NEIC	VIII 11 09 54 58.4	58.45N	152.51W	46			**¶97viii1542**
NEIC	M_L3.2(AEIC), After AEIC.						
NEIC	**VIII 16 22 48 03.1**	**56.97N**	**154.32W**	**0**			**1-1**
NEIC	M_L3.1(AEIC), After AEIC.						**¶97viii2431**
ISC	**VIII 23 04 09 49**±1.2	**58.47N**±.067	**153.5W**±.12	**77**±17		**32**	**0-4**
NEIC	VIII 23 04 09 51.5	58.47N	153.52W	54			**¶97viii3336**
NEIC	M_L2.5(AEIC), After AEIC.						
ISC	**VIII 23 19 20 25**±1.2	**57.52N**±.090	**153.7W**±.12	**98**±15		**67**	**1-8**
NEIC	VIII 23 19 20 29.0	57.68N	153.70W	54			**¶97viii3443**
NEIC	M_L3.0(AEIC), After AEIC.						
ISC	**VIII 26 13 43 06.1**±.53	**58.71N**±.040	**152.85W**±.070	**78**±8.5		**89**	**0-7**
NEIC	VIII 26 13 43 08.2	58.73N	152.92W	59			**¶97viii3854**
NEIC	M_L3.4(AEIC), After AEIC.						
ISC	**IX 08 22 51 35**±1.0	**58.10N**±.079	**153.3W**±.13	**86**±15		**30**	**1-7**
NEIC	IX 08 22 51 37.1	58.15N	153.45W	70			**¶97ix1290**
NEIC	After AEIC.						
ISC	**IX 09 17 49 27.6**±.31	**57.89N**±.033	**153.51W**±.050	**81**±5.9	**4.2b**	**126**	**1-83**
EIDC	IX 09 17 49 28.4	58.0N	153.8W	53	3.9$_L$,4.0b		**¶97ix1420**
NEIC	IX 09 17 49 30.1	57.92N	153.66W	48	3.8b		
NEIC	M_L4.5(PMR), M_L3.9(AEIC), After AEIC.						
ISC	**IX 10 22 43 58.4**±.99	**56.86N**±.043	**153.97W**±.060	**30**±7.3	**4.3b**,3.3s	**147**	**1-152**
BJI	IX 10 22 43 55.1	56.90N	154.20W	10			**¶97ix1591**
EIDC	IX 10 22 43 57.3	57.2N	154.5W	0	4.2b,4.4$_L$		
NEIC	IX 10 22 44 00.1	56.89N	154.22W	10	4.5b		
NEIC	$M_{L4.8}$(PMR), $M_{L4.5}$(AEIC)						
NEIC	Felt I=IV MM at Old Harbor.						
ISC	**IX 15 02 54 00.3**±.45	**57.68N**±.042	**152.77W**±.056	**71**±8.3	**3.5b**	**106**	**0-84**
EIDC	IX 15 02 53 52.0	57.6N	154.0W	0	3.6b,3.6$_L$		**¶97ix2194**
NEIC	IX 15 02 54 02.1	57.68N	152.81W	49			
NEIC	M_L3.9(PMR), M_L3.5(AEIC), After AEIC.						
ISC	**IX 22 21 12 56**±2.2	**57.5N**±.19	**153.91W**±.097	**25**		**17**	**1-5**
NEIC	IX 22 21 12 56.1	57.29N	154.03W	25			**¶97ix3328**
NEIC	M_L3.0(AEIC), After AEIC.						
ISC	**IX 23 15 19 00**±3.7	**57.5N**±.24	**154.5W**±.21	**107**±28		**19**	**1-7**
NEIC	IX 23 15 19 05.8	57.71N	154.38W	49			**¶97ix3442**
NEIC	M_L3.5(PMR), M_L2.9(AEIC), After AEIC.						
ISC	**X 10 02 35 17.8**±.77	**57.21N**±.070	**154.42W**±.099	**28**		**30**	**1-7**
NEIC	X 10 02 35 20.6	57.32N	154.59W	28			**¶97x1680**
NEIC	M_L3.0(AEIC), After AEIC.						
ISC	**X 10 05 56 05**±1.8	**58.61N**±.055	**151.2W**±.10	**11**±14		**34**	**1-5**
NEIC	X 10 05 56 05.8	58.68N	151.30W	0			**¶97x1702**
NEIC	M_L2.5(AEIC), After AEIC.						
ISC	**X 10 18 44 20.5**±.86	**58.36N**±.058	**152.75W**±.097	**77**±14		**37**	**0-6**
NEIC	X 10 18 44 23.1	58.37N	152.90W	44			**¶97x1788**
NEIC	M_L2.8(AEIC), After AEIC.						
ISC	**X 13 19 33 34.5**±.56	**58.94N**±.039	**153.06W**±.083	**89**±7.9		**65**	**0-6**
NEIC	X 13 19 33 36.4	58.99N	153.13W	76			**¶97x2272**
NEIC	After AEIC.						

ISC X 27 03 51 31.8±.66 **57.66N**±.061 **152.61W**±.069 **43**±5.8 **3.9b** **61 0-84**
NEIC X 27 03 51 32.2 57.54N 152.69W 40 4.1b **¶97x4564**
EIDC X 27 03 51 33.3 57.8N 152.9W 36 3.7b,3.8L
NEIC M_L3.9(PMR), M_L3.8(AEIC). Felt I=IV MM, After AEIC.
NEIC Felt I=IV MM at Kodiak.
ISC XI 25 18 46 04.7±.48 **57.39N**±.040 **151.81W**±.049 **46**±6.1 **4.1b** **118 1-85**
BJI XI 25 18 45 57.5 57.11N 151.81W 14 4.3b **¶97xi4562**
NEIC XI 25 18 46 03.3 57.22N 151.54W 10 4.4b
EIDC XI 25 18 46 08.7 57.7N 152.0W 47 3.7b,4.4L
NEIC M_L4.7(AEIC), M_L4.6(PMR). Felt, After AEIC.
NEIC Felt at Kodiak.
ISC XII 04 22 51 24.7±.85 **58.98N**±.053 **152.5W**±.11 **80**±12 **50 0-6**
NEIC XII 04 22 51 26.3 58.99N 152.53W 64 **¶97xii0711**
NEIC M_L2.9(AEIC), After AEIC.
ISC XII 07 02 13 15.0±.47 **57.79N**±.042 **153.08W**±.056 **65**±6.0 **3.7b** **114 0-80**
NEIC XII 07 02 13 17.9 57.84N 153.24W 48 3.9b **¶97xii1586**
EIDC XII 07 02 13 23.3±4.08 58.3N 152.7W 76±24.8 3.5b
NEIC M_L4.3(PMR), M_L4.0(AEIC), After AEIC.
EIDC Error ellipse is semi−major=46.2km semi−minor=21.4km azimuth=60
ISC XII 25 00 34 30.1±.65 **58.59N**±.055 **152.9W**±.11 **59** **28 0-19**
NEIC XII 25 00 34 30.7 58.55N 153.19W 59 **¶97xii4845**
NEIC M_L2.5(AEIC), After AEIC.
ISC XII 27 00 08 07±1.9 **57.0N**±.14 **152.2W**±.11 **20** **32 1-20**
NEIC XII 27 00 08 14.2 57.27N 152.61W 20 **¶97xii5211**
NEIC M_L3.0(AEIC), After AEIC.

(14) Kenai Peninsula.

ISC VII 03 13 16 01.0±.59 **59.85N**±.049 **151.01W**±.097 **57**±11 **27 0-6**
NEIC VII 03 13 16 02.1 59.90N 150.97W 44 **¶97vii0415**
NEIC M_L3.6(PMR), M_L3.5(AEIC), After AEIC.
ISC VII 04 12 44 04.5±.26 **59.47N**±.029 **151.34W**±.042 **61**±3.3 **4.2b** **132 0-149**
EIDC VII 04 12 44 06.2 59.6N 151.4W 58 3.8b,3.4s **¶97vii0560**
NEIC VII 04 12 44 06.6 59.54N 151.40W 41 4.4b
NEIC M_L4.1(AEIC), After AEIC.
ISC VII 05 01 12 12±1.3 **60.00N**±.080 **148.5W**±.12 **23**±14 **13 1-3**
NEIC VII 05 01 12 12.4 59.99N 148.55W 16 **¶97vii0655**
NEIC M_L2.6(AEIC), After AEIC.
ISC VII 09 17 44 13.4±.67 **59.66N**±.041 **151.94W**±.083 **74**±11 **44 0-4**
NEIC VII 09 17 44 15.6 59.72N 151.97W 51 **¶97vii1372**
NEIC M_L2.8(AEIC), After AEIC.
ISC VII 10 20 21 08.9±.57 **59.52N**±.046 **151.89W**±.088 **68**±10 **34 0-5**
NEIC VII 10 20 21 10.3 59.58N 151.90W 58 **¶97vii1557**
NEIC M_L3.1(AEIC), After AEIC.
ISC VII 11 02 22 44.5±.23 **60.98N**±.026 **149.99W**±.049 **59**±5.2 **3.6b** **88 0-59**
EIDC VII 11 02 22 34.1 60.6N 151.4W 0 3.6b,3.4L **¶97vii1616**
NEIC VII 11 02 22 45.8 61.02N 150.07W 38
NEIC M_L3.6(AEIC), M_L3.6(PMR). Felt I=III MM, After AEIC.
NEIC Felt I=III MM at Anchorage.
ISC VII 16 07 15 30.7±.35 **59.93N**±.028 **151.57W**±.051 **73**±7.3 **101 0-8**
NEIC VII 16 07 15 32.7 59.97N 151.64W 49 **¶97vii2400**
NEIC M_L3.9(AEIC), M_L3.6(PMR), After AEIC.
ISC VII 22 02 22 49.6±.85 **60.82N**±.045 **151.7W**±.10 **100**±11 **42 0-5**
NEIC VII 22 02 22 51.9 60.76N 151.71W 80 **¶97vii3316**
NEIC After AEIC.
ISC VII 28 23 37 59±1.8 **60.83N**±.096 **150.8W**±.19 **86**±22 **13 0-3**
NEIC VII 28 23 38 01.4 60.80N 150.78W 48 **¶97vii4344**
NEIC M_L2.5(AEIC), After AEIC.
ISC VII 30 03 38 28±1.1 **59.78N**±.064 **151.8W**±.14 **71**±15 **17 0-3**
NEIC VII 30 03 38 29.1 59.86N 151.80W 53 **¶97vii4526**
NEIC M_L2.9(AEIC), After AEIC.
ISC VII 31 06 48 48±1.5 **60.94N**±.070 **151.4W**±.15 **93**±18 **16 0-3**
NEIC VII 31 06 48 50.2 60.90N 151.43W 69 **¶97vii4691**
NEIC M_L2.6(AEIC), After AEIC.
ISC VIII 03 18 26 49.5±.31 **60.70N**±.026 **151.82W**±.054 **121**±4.8 4.0b **108 0-58**
NEIC VIII 03 18 26 51.8 60.70N 151.89W 102 **¶97viii0394**
EIDC VIII 03 18 26 56.0 61.4N 152.5W 121 3.5b
NEIC After AEIC.
ISC VIII 03 18 31 01.3±.59 **59.10N**±.046 **151.99W**±.085 **70**±12 **45 0-6**
NEIC VIII 03 18 31 02.9 59.10N 152.02W 55 **¶97viii0395**
NEIC M_L3.4(PMR), M_L3.3(AEIC), After AEIC.
ISC VIII 03 19 04 51.5±.58 **60.70N**±.041 **150.38W**±.079 **56**±13 **32 0-4**
NEIC VIII 03 19 04 52.9 60.75N 150.48W 38 **¶97viii0401**
NEIC M_L2.5(AEIC), After AEIC.
ISC VIII 06 08 06 14.6±.18 **60.08N**±.022 **150.86W**±.036 **57**±2.9 **4.3b,3.4s** **163 0-150**
BJI VIII 06 08 06 12.2 60.10N 150.90W 37 **¶97viii0772**
NEIC VIII 06 08 06 16.2 60.10N 150.93W 37 4.6b
EIDC VIII 06 08 06 16.7 60.2N 151.0W 59 4.0b,3.4s
NEIC M_L4.7(PMR), M_L4.3(AEIC). Felt, After AEIC.
NEIC Felt at Anchorage, Anchor Point, Homer and Kenai.
ISC VIII 09 10 28 50.9±.93 **59.43N**±.056 **151.30W**±.092 **8**±7.0 **23 0-3**
NEIC VIII 09 10 28 50.9 59.42N 151.23W 5 **¶97viii1235**
NEIC M_L2.5(AEIC), After AEIC.
ISC VIII 15 05 57 56.2±.79 **60.77N**±.052 **151.58W**±.093 **85**±10 **36 0-6**
NEIC VIII 15 05 57 57.6 60.78N 151.56W 71 **¶97viii2167**
NEIC After AEIC.
ISC VIII 15 16 37 14.7±.64 **60.07N**±.048 **150.91W**±.086 **52**±15 **27 0-3**
NEIC VIII 15 16 37 15.7 60.10N 150.93W 39 **¶97viii2241**
NEIC M_L2.6(AEIC), After AEIC.
ISC VIII 20 00 15 41.5±.98 **60.2N**±.11 **150.8W**±.21 **39** **8 1-3**
NEIC VIII 20 00 15 41.5 60.11N 150.68W 39 **¶97viii2886**
NEIC M_L2.5(PMR), M_L2.4(AEIC), After AEIC.
ISC VIII 26 15 39 58.4±.23 **60.46N**±.024 **151.71W**±.046 **87**±4.1 **3.8b** **119 0-62**
NEIC VIII 26 15 40 00.7 60.47N 151.79W 64 **¶97viii3871**
EIDC VIII 26 15 40 00.7 60.7N 151.9W 85 3.5b
NEIC M_L3.9(AEIC), M_L3.8(PMR), After AEIC.
ISC VIII 27 20 13 09.9±.80 **60.65N**±.049 **152.0W**±.11 **86**±11 **27 0-5**
NEIC VIII 27 20 13 10.8 60.61N 151.85W 76 **¶97viii4032**
NEIC After AEIC.
ISC VIII 31 02 43 28.4±.55 **59.86N**±.052 **151.10W**±.078 **56**±11 **33 0-4**
NEIC VIII 31 02 43 29.8 59.92N 151.18W 40 **¶97viii4573**
NEIC M_L2.8(AEIC), After AEIC.
ISC VIII 31 08 41 37.9±.63 **60.26N**±.049 **149.85W**±.081 **70**±11 **39 0-5**
NEIC VIII 31 08 41 39.7 60.31N 149.93W 51 **¶97viii4624**
NEIC M_L2.6(AEIC), After AEIC.
ISC IX 01 04 52 22.7±.50 **59.95N**±.032 **151.76W**±.059 **69**±9.4 **67 0-4**
NEIC IX 01 04 52 24.2 60.00N 151.82W 53 **¶97ix0047**
NEIC M_L2.6(AEIC), After AEIC.
ISC IX 01 12 30 42.9±.52 **59.98N**±.032 **151.88W**±.066 **96**±8.2 **80 0-5**
NEIC IX 01 12 30 45.1 60.03N 151.91W 74 **¶97ix0102**
NEIC After AEIC.
ISC IX 04 21 07 13.5±.70 **59.06N**±.062 **150.8W**±.11 **72**±15 **32 1-5**
NEIC IX 04 21 07 15.5 59.11N 150.81W 56 **¶97ix0637**
NEIC M_L3.0(AEIC), After AEIC.
ISC IX 13 14 39 57.7±.50 **60.13N**±.050 **151.19W**±.097 **82**±7.0 3.7b **32 0-71**
NEIC IX 13 14 39 59.8 60.19N 151.24W 59 **¶97ix1987**
EIDC IX 13 14 40 01.4 60.5N 151.4W 75 4.1L,3.5b
NEIC M_L3.3(PMR), M_L3.2(AEIC), After AEIC.
ISC IX 25 19 07 37±1.1 **60.84N**±.064 **151.2W**±.10 **85**±14 **22 0-4**
NEIC IX 25 19 07 40.0 60.78N 151.24W 51 **¶97ix3777**
NEIC M_L2.5(AEIC), After AEIC.
ISC IX 27 19 01 26±1.5 **60.30N**±.063 **150.9W**±.14 **90**±19 **17 0-3**
NEIC IX 27 19 01 29.0 60.33N 150.85W 62 **¶97ix4436**
NEIC M_L2.5(AEIC), After AEIC.
ISC X 03 19 12 26±1.1 **59.01N**±.051 **150.93W**±.069 **30**±11 **40 1-6**
NEIC X 03 19 12 28.5 59.05N 151.10W 30 **¶97x0515**
NEIC M_L2.5(AEIC), After AEIC.
ISC X 22 06 12 14.2±.67 **59.91N**±.044 **151.90W**±.077 **72**±11 **44 0-5**
NEIC X 22 06 12 15.4 59.94N 151.90W 60 **¶97x3758**
NEIC M_L2.5(AEIC), After AEIC.
ISC X 22 06 32 06.1±.37 **60.20N**±.030 **151.03W**±.051 **78**±8.3 **87 0-6**
NEIC X 22 06 32 08.2 60.24N 151.13W 55 **¶97x3761**
NEIC M_L3.0(AEIC), After AEIC.
ISC X 23 18 03 03.5±.29 **60.94N**±.028 **150.15W**±.046 **54**±10 **83 0-4**
NEIC X 23 18 03 04.7 60.94N 150.19W 38 **¶97x4042**
NEIC M_L2.9(AEIC), After AEIC.
ISC X 27 04 21 10.4±.29 **60.42N**±.026 **151.39W**±.052 **81**±6.1 3.1b **97 0-85**
EIDC X 27 04 21 07.3 60.3N 151.2W 0 3.4L,3.2b **¶97x4569**
NEIC X 27 04 21 12.9 60.43N 151.47W 47
NEIC M_L3.4(PMR), M_L3.3(AEIC), After AEIC.
ISC XI 02 00 57 35.5±.96 **59.01N**±.044 **150.87W**±.069 **29**±8.4 **50 1-99**
NEIC XI 02 00 57 34.7 58.98N 150.77W 5 **¶97xi0172**
NEIC M_L2.9(AEIC), After AEIC.
ISC XI 03 22 45 14.7±.62 **60.89N**±.042 **151.37W**±.089 **96**±9.4 **42 0-4**
NEIC XI 03 22 45 16.9 60.89N 151.38W 77 **¶97xi0529**
NEIC After AEIC.
ISC XI 18 06 16 40.1±.20 **60.54N**±.023 **150.78W**±.041 **55**±5.4 **3.9b** **111 0-58**
NEIC XI 18 06 16 41.6 60.58N 150.92W 46 3.5b **¶97xi2918**
EIDC XI 18 06 16 45.0 60.6N 149.9W 40 3.7b,3.7L
NEIC M_L4.2(AEIC), M_L4.0(PMR). Felt, After AEIC.
NEIC Felt at Kasilof and Soldotna.
ISC XI 21 20 05 46.3±.31 **60.51N**±.033 **149.50W**±.054 **40**±13 **66 0-6**
NEIC XI 21 20 05 47.1 60.56N 149.56W 34 **¶97xi3731**
NEIC M_L3.4(PMR), M_L3.1(AEIC), After AEIC.
ISC XI 25 22 19 19±1.8 **59.14N**±.085 **151.9W**±.19 **61**±27 **12 0-2**
NEIC XI 25 22 19 20.6 59.18N 151.92W 56 **¶97xi4587**
NEIC M_L2.7(AEIC), After AEIC.
ISC XII 05 09 24 43.1±.44 **60.52N**±.046 **150.13W**±.067 **38**±29 **38 0-4**
NEIC XII 05 09 24 43.6 60.52N 150.20W 31 **¶97xii0820**
NEIC M_L2.5(AEIC), After AEIC.
ISC XII 05 14 57 05.5±.17 **60.94N**±.019 **149.23W**±.033 **50**±2.2 **4.9b** **228 0-165**
BJI XII 05 14 57 03.5 60.90N 149.20W 36 4.9b **¶97xii0918**
NEIC XII 05 14 57 06.5 60.90N 149.19W 36 4.9b
EIDC XII 05 14 57 07.0±2.11 61.1N 149.2W 47±20.0 4.5b,4.6L
NEIC M_L5.1(AEIC), M_L4.9(PMR). After AEIC.
NEIC Felt I=V MM at Girdwood and IV MM at Anchorage, Chugiak, Eagle River, Palmer and Wasilla.
EIDC Error ellipse is semi−major=19.5km semi−minor=11.5km azimuth=31
ISC XII 05 21 19 58.0±.36 **60.86N**±.036 **149.18W**±.064 **36**±14 **43 0-5**
NEIC XII 05 21 19 58.6 60.90N 149.19W 36 **¶97xii1101**
NEIC M_L2.9(AEIC), After AEIC.
ISC XII 12 23 23 12.4±.89 **59.28N**±.087 **148.3W**±.11 **48**±26 **19 1-17**
NEIC XII 12 23 23 09.6 59.17N 148.27W 0 2.6b **¶97xii2841**
NEIC M_L2.6(AEIC), After AEIC.
ISC XII 17 23 14 42.0±.24 **60.87N**±.028 **149.78W**±.043 **28** **68 0-4**
NEIC XII 17 23 14 43.0 60.87N 149.84W 28 **¶97xii3677**
NEIC M_L2.8(AEIC), After AEIC.
ISC XII 25 12 50 02.9±.27 **59.26N**±.027 **151.09W**±.037 **52**±2.5 **4.5b,3.6s** **192 0-149**
EIDC XII 25 12 49 57.8±.51 59.4N 151.4W 0 4.4b,3.6s **¶97xii4932**
BJI XII 25 12 49 58.3 59.24N 151.65W 16 4.8b
NEIC XII 25 12 50 04.1 59.22N 151.02W 35 4.7b
EIDC Error ellipse is semi−major=13.0km semi−minor=11.7km azimuth=171
NEIC M_L4.4(PMR), M_L4.3(AEIC), After AEIC.
ISC XII 26 18 39 26.4±.59 **60.93N**±.046 **149.22W**±.097 **33**±6.8 **23 0-16**
NEIC XII 26 18 39 27.0 60.93N 149.23W 32 **¶97xii5188**
NEIC M_L3.1(PMR), M_L2.8(AEIC), After AEIC.
ISC XII 29 15 51 07.8±.48 **60.45N**±.047 **149.51W**±.078 **40**±15 **30 0-6**
NEIC XII 29 15 51 08.6 60.47N 149.57W 33 **¶97xii5609**
NEIC M_L3.0(AEIC), M_L3.0(PMR), After AEIC.
ISC XII 30 18 23 07±1.0 **60.85N**±.054 **151.8W**±.13 **104**±13 **32 0-5**
NEIC XII 30 18 23 09.6 60.78N 151.80W 74 **¶97xii5772**
NEIC After AEIC.

(15) Gulf of Alaska.

ISC VII 28 03 10 20.0±.81 **58.36N**±.065 **142.74W**±.080 **10** **48 2-8**
NEIC VII 28 03 10 19.9 58.36N 142.72W 10 **¶97vii4199**
NEIC M_L3.0(AEIC).
ISC VIII 03 11 55 38±2.3 **59.3N**±.22 **145.4W**±.12 **24**±15 **19 0-3**
NEIC VIII 03 11 55 37.0 59.35N 145.41W 10 **¶97viii0360**
NEIC M_L2.5(AEIC).
ISC VIII 08 13 34 54.4±.66 **56.72N**±.058 **142.97W**±.079 **10** **35 3-8**
NEIC VIII 08 13 34 57.4 56.96N 143.12W 10 **¶97viii1121**
PGC VIII 08 13 34 58.2 56.9N 143.0W 10 3.5L
NEIC M_L3.5(AEIC).
PGC Gulf of Alaska.
ISC VIII 12 14 37 00.9±.59 **58.97N**±.055 **150.82W**±.090 **33** **26 1-8**
NEIC VIII 12 14 37 00.8 58.97N 150.81W 33 **¶97viii1766**
NEIC M_L3.0(PMR), M_L2.9(AEIC).
ISC VIII 15 18 30 11±1.6 **57.6N**±.12 **143.0W**±.13 **10** **35 2-7**
NEIC VIII 15 18 30 11.2 57.64N 142.99W 10 **¶97viii2250**
NEIC M_L3.4(AEIC).
ISC VIII 30 00 01 29.8±.74 **59.98N**±.074 **142.00W**±.074 **17**±7.4 **29 0-4**
NEIC VIII 30 00 01 30.4 60.01N 142.00W 7 **¶97viii4396**
NEIC M_L2.6(AEIC), After AEIC.
ISC IX 03 01 17 13.9±.60 **58.41N**±.055 **143.56W**±.073 **10** **36 2-8**
NEIC IX 03 01 17 15.9 58.59N 143.58W 10 **¶97ix0360**
PGC IX 03 01 17 16.8 58.6N 143.6W 10 3.3L
NEIC M_L3.6(PMR), M_L3.2(AEIC).
PGC Gulf of Alaska.

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**IX**	**06 00 10 21.0**±.39	**58.92N**±.036	**150.69W**±.042	**32**		**97**	**1-7**	
NEIC	IX	06 00 10 22.4	58.86N	150.66W	32				¶97ix0821
NEIC	M_L3.0(AEIC), After AEIC.								
ISC	**IX**	**14 15 20 01**±1.5	**58.1N**±.12	**142.81W**±.096	**10**		**47**	**2-6**	
NEIC	IX	14 15 20 01.2	58.20N	142.82W	10				¶97ix2139
NEIC	M_L2.9(AEIC).								
ISC	**X**	**02 16 35 18**±1.1	**57.89N**±.090	**149.05W**±.061	**10**		**55**	**2-6**	
NEIC	X	02 16 35 18.2	57.90N	149.04W	10				¶97x0313
NEIC	M_L2.6(AEIC).								
ISC	**X**	**10 02 29 45**±2.6	**57.8N**±.21	**142.7W**±.12	**10**		**27**	**2-6**	
NEIC	X	10 02 29 45.2	57.86N	142.68W	10				¶97x1679
NEIC	M_L2.8(AEIC).								
ISC	**XI**	**12 09 06 49.1**±.63	**58.73N**±.054	**150.15W**±.074	**56**±33		**50**	**1-5**	
NEIC	XI	12 09 06 50.3	58.76N	150.21W	58				¶97xi1960
NEIC	M_L2.7(AEIC), After AEIC.								
ISC	**XI**	**21 02 20 46**±1.3	**58.6N**±.11	**143.35W**±.094	**10**		**31**	**1-5**	
NEIC	XI	21 02 20 46.2	58.58N	143.33W	10				¶97xi3569
NEIC	M_L2.6(AEIC).								
ISC	**XI**	**27 12 22 51.4**±.45	**58.92N**±.041	**150.45W**±.056	**75**±12	3.1b	**89**	**1-43**	
EIDC	XI	27 12 22 49.9	59.0N	150.6W	15	4.0L,3.2b			¶97xi4856
NEIC	XI	27 12 22 53.1	58.93N	150.43W	51				
NEIC	M_L3.7(AEIC), M_L3.4(PMR), After AEIC.								
ISC	**XII**	**02 00 41 08**±2.2	**58.60N**±.091	**147.15W**±.076	**21**±20		**50**	**1-16**	
NEIC	XII	02 00 41 07.5	58.65N	147.18W	10	3.0b			¶97xii0163
NEIC	M_L3.2(AEIC), After AEIC.								
ISC	**XII**	**02 21 33 41**±2.2	**58.54N**±.076	**147.18W**±.065	**18**±22		**54**	**1-7**	
NEIC	XII	02 21 33 40.7	58.58N	147.17W	10				¶97xii0316
NEIC	M_L2.5(AEIC), After AEIC.								
ISC	**XII**	**06 13 45 54**±1.3	**57.4N**±.11	**146.2W**±.10	**10**		**23**	**2-6**	
NEIC	XII	06 13 45 53.7	57.41N	146.17W	10				¶97xii1434
NEIC	M_L3.2(AEIC).								
ISC	**XII**	**29 21 54 24**±1.1	**58.27N**±.087	**150.9W**±.14	**35**		**14**	**1-3**	
NEIC	XII	29 21 54 25.5	58.30N	150.94W	35				¶97xii5641
NEIC	M_L2.5(AEIC), After AEIC.								
ISC	**XII**	**29 23 37 42**±2.5	**58.41N**±.066	**142.72W**±.087	**17**±26	3.9b	**30**	**2-62**	
NEIC	XII	29 23 37 41.5	58.45N	142.73W	10	3.4b			¶97xii5657
PGC	XII	29 23 37 44.2	58.6N	142.8W	10	3.5L			
EIDC	XII	29 23 37 46.1±5.97	58.4N	142.7W	30±46.4	3.6L,3.6b			
NEIC	M_L3.3(AEIC), After AEIC.								
PGC	Gulf of Alaska.								
EIDC	Error ellipse is semi−major=47.6km semi−minor=21.6km azimuth=175								

(16) Aleutian Islands region.

ISC	**IX**	**27 14 42 31**±6.8	**52.9N**±.63	**165.2W**±.13	**45**		**10**	**1-4**	
NEIC	IX	27 14 42 37.7	53.53N	165.28W	45				¶97ix4379
NEIC	M_L3.5(AEIC), After AEIC.								
ISC	**X**	**03 18 19 16.7**±.46	**49.92N**±.089	**177.3W**±.10	**33**	**4.2b**	**40**	**2-153**	
EIDC	X	03 18 19 12.9	49.8N	177.2W	0	4.1b,4.3L			¶97x0504
NEIC	X	03 18 19 16.5	49.97N	177.27W	33	4.5b			
EIDC	**XII**	**01 01 32 59.7**	**52.0N**	**165.0W**	**0**	3.5b,3.6L		**16-50**	
									¶97xii0008
EIDC	Origin time error = 19.72Error ellipse is semi−major=358.3km semi−minor=73.8km azimuth=82								
EIDC	**XII**	**11 21 18 35.7**±2.71	**49.0N**	**169.0E**	**0**	**3.7b**		**26-50**	
									¶97xii2641
EIDC	Error ellipse is semi−major=65.4km semi−minor=29.8km azimuth=153								
ISC	**XII**	**22 00 40 35**±1.8	**49.7N**±.22	**178.5W**±.30	**33**	**3.6b**	**9**	**2-70**	
NEIC	XII	22 00 40 34.4	49.71N	178.57W	33	3.3b			¶97xii4327
EIDC	XII	22 00 40 36.9±2.96	49.7N	178.5W	31±7.5	3.5b			
NEIC	Poor solution.								
EIDC	Error ellipse is semi−major=62.1km semi−minor=28.1km azimuth=20								
EIDC	**XII**	**23 12 25 51.9**	**51.0N**	**171.2W**	**0**	**3.4b,**3.4L		**19-54**	
									¶97xii4598
EIDC	Origin time error = 11.34Error ellipse is semi−major=225.9km semi−minor=51.9km azimuth=78								
ISC	**XII**	**31 12 47 07**±4.3	**51.0N**±.14	**171.8W**±.10	**32**±30	**4.0b**	**29**	**3-129**	
NEIC	XII	31 12 47 07.2	51.00N	171.75W	33	4.1b			¶97xii5897
EIDC	XII	31 12 47 08.4±.88	50.8N	171.8W	34±4.4	3.8b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=25.6km semi−minor=14.1km azimuth=4								
EIDC	**XII**	**31 13 55 57.6**±2.62	**50.8N**	**166.9E**	**0**	**3.4b**		**28-62**	
									¶97xii5910
EIDC	Error ellipse is semi−major=154.1km semi−minor=29.5km azimuth=157LO CONF								

(17) South of Alaska.

ISC	**VII**	**28 12 30 35**±1.0	**53.93N**±.093	**162.4W**±.11	**0**		**24**	**1-7**	
NEIC	VII	28 12 30 41.4	54.28N	162.31W	0				¶97vii4272
NEIC	M_L3.1(AEIC), After AEIC.								
ISC	**VII**	**29 07 34 47**±3.9	**53.3N**±.29	**160.7W**±.20	**40**±39	**3.7b**	**20**	**2-48**	
NEIC	VII	29 07 34 44.4	52.99N	160.79W	35				¶97vii4399
EIDC	VII	29 07 34 48.0	53.4N	159.7W	0	3.4b,4.0L			
NEIC	M_L3.6(AEIC), After AEIC.								
ISC	**VIII**	**15 02 45 27**±1.6	**53.7N**±.16	**162.7W**±.16	**33**		**20**	**1-7**	
NEIC	VIII	15 02 45 27.6	53.69N	162.69W	33				¶97viii2153
NEIC	M_L3.8(AEIC), After AEIC.								
ISC	**VIII**	**25 07 26 42.1**±.90	**54.70N**±.094	**159.77W**±.080	**46**±11	**4.0b**	**89**	**0-81**	
EIDC	VIII	25 07 26 43.8	54.9N	160.0W	30	3.6b,4.0L			¶97viii3669
NEIC	VIII	25 07 26 45.1	54.79N	160.00W	32				
NEIC	M_L4.1(AEIC), After AEIC.								
ISC	**IX**	**06 01 58 41**±3.5	**55.8N**±.26	**152.0W**±.13	**28**		**42**	**2-9**	
NEIC	IX	06 01 58 45.8	56.02N	152.27W	28				¶97ix0839
NEIC	M_L3.3(AEIC), After AEIC.								
ISC	**IX**	**20 10 53 35**±2.3	**53.7N**±.20	**163.0W**±.22	**0**		**13**	**1-2**	
NEIC	IX	20 10 53 38.9	53.95N	162.95W	0				¶97ix2933
NEIC	M_L2.9(AEIC), After AEIC.								
ISC	**X**	**23 23 24 32.5**±.92	**52.80N**±.084	**162.05W**±.079	**36**	**3.8b**	**38**	**2-81**	
EIDC	X	23 23 24 31.0	52.9N	162.1W	0	3.8b,3.8L			¶97x4081
NEIC	X	23 23 24 33.5	52.76N	162.07W	36	3.7b			
NEIC	M_L3.9(AEIC), After AEIC.								
ISC	**XI**	**07 04 24 24.0**±.24	**52.36N**±.039	**164.87W**±.046	**33**±.8*	**4.7b,4.1s**	**154**	**2-155**	
EIDC	XI	07 04 24 19.9	52.2N	164.9W	0	4.5b,4.0s			¶97xi1071
BJI	XI	07 04 24 22.4	52.55N	164.95W	28	5.0b			
NEIC	XI	07 04 24 24.1	52.31N	164.83W	39	4.8b			
NEIC	M_L4.9(PMR), M_L4.6(AEIC), After AEIC.								
ISC	**XII**	**12 18 50 26**±5.2	**53.1N**±.39	**162.3W**±.42	**39**		**18**	**2-3**	
NEIC	XII	12 18 50 26.4	53.09N	162.23W	39				¶97xii2804
NEIC	M_L3.1(AEIC), After AEIC.								
EIDC	**XII**	**22 15 47 16.0**±6.92	**54.6N**	**148.1W**	**0**	3.5L,3.6b		**7-28**	
									¶97xii4441
EIDC	Error ellipse is semi−major=117.8km semi−minor=42.3km azimuth=65								

Seismic Region 2.
Eastern Alaska to Vancouver Island.

(18) Southern Yukon Territory.

PGC	**VII**	**10 00 24 56.8**	**65.0N**	**133.7W**	**0**	**3.0L**			¶97vii1414
PGC	Wernecke Mountains, Yukon Territory								
ISC	**VII**	**10 00 50 16**±1.0	**64.88N**±.089	**133.3W**±.24	**0**		**6**	**3-9**	
PGC	VII	10 00 50 17.5	65.0N	133.9W	0	3.3L			¶97vii1420
PGC	Wernecke Mountains, Yukon Territory								
ISC	**VII**	**11 09 01 00**±1.0	**64.41N**±.092	**136.9W**±.22	**0**		**6**	**1-10**	
PGC	VII	11 09 01 01.0	64.4N	137.1W	0	3.7L			¶97vii1652
PGC	Ogilvie Mountains, Yukon Territory								
ISC	**VII**	**14 14 50 39**±1.8	**63.42N**±.090	**130.4W**±.39	**10**		**5**	**3-5**	
PGC	VII	14 14 50 41.1	63.5N	130.6W	10	3.2L			¶97vii2154
PGC	Hess Mountains, Yukon Territory								
ISC	**VII**	**15 23 47 12**±1.7	**63.32N**±.096	**130.9W**±.40	**0**		**5**	**3-5**	
PGC	VII	15 23 47 14.2	63.3N	131.4W	0	3.5L			¶97vii2370
PGC	Hess Mountains, Yukon Territory								
ISC	**VIII**	**16 09 19 58**±1.0	**60.19N**±.099	**128.8W**±.24	**0**	2.2b	**5**	**2-21**	
EIDC	VIII	16 09 20 00.0	60.1N	128.8W	0	3.9L			¶97viii2342
ISC	**VIII**	**17 03 22 53**±1.0	**64.11N**±.097	**135.1W**±.25	**0**		**5**	**2-9**	
PGC	VIII	17 03 22 54.3	64.1N	135.4W	0	3.3L			¶97viii2476
PGC	Wernecke Mountains, Yukon Territory								
PGC	**VIII**	**17 04 25 50.0**	**63.3N**	**131.2W**	**0**	**3.4L**			¶97viii2483
PGC	Hess Mountains, Yukon Territory								
EIDC	**VIII**	**20 06 00 00.5**	**60.1N**	**128.8W**	**0**	**3.9L**		**2-10**	
									¶97viii2919
ISC	**VIII**	**29 17 35 57**±3.3	**63.3N**±.18	**131.2W**±.51	**0**		**5**	**3-5**	
PGC	VIII	29 17 35 58.5	63.3N	131.3W	0	3.2L			¶97viii4355
ISC	Poorly determined								
PGC	Hess Mountains, Yukon Territory								
ISC	**VIII**	**31 15 34 45.7**±.98	**63.23N**±.085	**131.1W**±.20	**10**		**6**	**3-8**	
PGC	VIII	31 15 34 48.2	63.3N	131.5W	10	3.3L			¶97viii4674
PGC	Hess Mountains, Yukon Territory								
PGC	**IX**	**03 19 23 44.0**	**63.3N**	**131.4W**	**0**	**3.3L**			¶97ix0467
PGC	Hess Mountains, Yukon Territory								
PGC	**IX**	**11 09 15 50.9**	**63.3N**	**131.4W**	**0**	**3.0L**			¶97ix1656
PGC	Hess Mountains, Yukon Territory								
ISC	**X**	**03 18 31 33**±1.0	**64.88N**±.090	**133.0W**±.24	**0**		**6**	**3-8**	
PGC	X	03 18 31 34.6	64.9N	133.5W	0	3.1L			¶97x0506
PGC	Wernecke Mountains, Yukon Territory								
PGC	**X**	**20 17 13 56.6**	**61.5N**	**131.9W**	**10**	**3.4L**			¶97x3532
PGC	Pelly Mountains, Yukon Territory Unlocated aftershock at 17:16.								
PGC	**X**	**20 18 14 46.4**	**61.6N**	**131.7W**	**0**	**3.0L**			¶97x3539
PGC	Pelly Mountains, Yukon Territory								
ISC	**XI**	**25 21 03 50.1**±.51	**64.27N**±.041	**133.02W**±.097	**5**	**4.1b**	**67**	**3-88**	
EIDC	XI	25 21 03 50.7	64.2N	132.7W	0	4.0b,4.6L			¶97xi4579
NEIC	XI	25 21 03 52.0	64.21N	132.88W	5				
PGC	XI	25 21 03 52.3	64.2N	132.9W	5	4.8L			
NEIC	After PGC.								
PGC	Wernecke Mountains, Yukon Territory. Unlocated aftershock at 21:12.								
ISC	**XI**	**25 22 28 10.6**±.21	**64.27N**±.029	**133.17W**±.051	**0**	**4.7b,4.2s**	**113**	**3-88**	
BJI	XI	25 22 28 08.9	64.08N	132.79W	7	4.8b,5.1s			¶97xi4589
NEIC	XI	25 22 28 12.0	64.22N	132.92W	0	4.9b			
PGC	XI	25 22 28 12.1	64.2N	132.9W	0	5.1L			
EIDC	XI	25 22 28 16.8	64.2N	133.3W	28	4.1b,3.9s			
NEIC	After PGC.								
PGC	Wernecke Mountains, Yukon Territory. Felt strongly by a trapper at Square Lake, about 60km SSW of the epicentre. Also felt mildly at Mayo, Yukon Territory								
ISC	**XI**	**26 08 05 31.0**±.99	**64.23N**±.089	**132.8W**±.23	**0**		**6**	**3-8**	
PGC	XI	26 08 05 34.2	64.2N	133.0W	0	3.5L			¶97xi4653
PGC	Wernecke Mountains, Yukon Territory								
PGC	**XI**	**30 03 32 17.6**	**64.1N**	**133.2W**	**0**	**3.0L**			¶97xi5356
PGC	Wernecke Mountains, Yukon Territory								
ISC	**XII**	**27 09 59 37.6**±.46	**61.66N**±.045	**140.99W**±.087	**0**	3.1b	**26**	**1-27**	
PGC	XII	27 09 59 38.1	61.6N	141.1W	0	3.5L			¶97xii5276
NEIC	XII	27 09 59 38.7	61.56N	141.42W	0				
EIDC	XII	27 09 59 40.4±2.86	61.7N	141.2W	0	3.1L,3.1b			
PGC	Wrangell Mountains, Alaska.								
NEIC	M_L3.4(AEIC), After AEIC.								
EIDC	Error ellipse is semi−major=81.7km semi−minor=18.8km azimuth=43								
ISC	**XII**	**29 13 27 00**±1.0	**62.4N**±.10	**132.3W**±.24	**0**		**6**	**2-8**	
PGC	XII	29 13 27 01.4	62.4N	132.2W	0	3.3L			¶97xii5587
PGC	North of Ross River, Yukon Territory								
ISC	**XII**	**30 12 41 07.0**±.47	**61.63N**±.050	**140.89W**±.084	**0**		**30**	**1-12**	
PGC	XII	30 12 41 07.4	61.6N	141.1W	0	3.2L			¶97xii5736
NEIC	XII	30 12 41 08.9	61.45N	141.40W	0				
PGC	Wrangell Mountains, Alaska.								
NEIC	M_L3.1(AEIC), After AEIC.								

(19) South-Eastern Alaska.

ISC	**VII**	**08 21 26 51.3**±.73	**60.23N**±.053	**141.03W**±.066	**11**±7.0		**34**	**0-9**	
NEIC	VII	08 21 26 51.1	60.28N	140.99W	6				¶97vii1237
PGC	VII	08 21 26 51.8	60.3N	141.0W	10	3.4L			
NEIC	M_L3.2(AEIC), After AEIC.								
PGC	St. Elias Mountains, Yukon Territory								
NEIC	**VII**	**22 12 25 36.2**	**59.60N**	**138.67W**	**0**			**1-7**	
NEIC	M_L2.7(AEIC), After AEIC.								¶97vii3378
PGC	**VIII**	**13 15 06 31.2**	**59.0N**	**137.1W**	**10**	**3.2L**			¶97viii1928
PGC	Glacier Bay, Alaska.								
PGC	**VIII**	**15 10 35 16.6**	**59.0N**	**134.5W**	**0**	**3.0L**			¶97viii2202
PGC	British Columbia−Alaska border, north of Juneau.								
ISC	**VIII**	**15 18 08 34.2**±.93	**58.77N**±.090	**137.1W**±.10	**10**		**47**	**2-10**	
PGC	VIII	15 18 08 36.8	59.0N	136.8W	10	4.1L			¶97viii2248
NEIC	VIII	15 18 08 37.5	59.07N	136.76W	10				
PGC	Glacier Bay, Alaska.								
NEIC	M_L3.7(AEIC), After AEIC.								
ISC	**VIII**	**19 19 56 52.8**±.59	**60.37N**±.055	**141.22W**±.086	**9**		**19**	**0-3**	
NEIC	VIII	19 19 56 53.5	60.36N	141.23W	9				¶97viii2864
NEIC	M_L2.7(AEIC), After AEIC.								
ISC	**VIII**	**26 13 46 11.3**±.62	**59.86N**±.049	**141.40W**±.061	**17**±7.3		**75**	**0-6**	
PGC	VIII	26 13 46 11.7	59.9N	141.4W	10	3.3L			¶97viii3855
NEIC	VIII	26 13 46 12.1	59.94N	141.29W	8				
PGC	Near Icy Bay, Alaska.								

NEIC M_L3.3(AEIC), After AEIC.
ISC IX 02 21 05 47±1.9 **60.24N**±.096 **139.6W**±.23 **9**±12 **21 0-4**
NEIC IX 02 21 05 47.9 60.19N 139.66W 8 **¶97ix0328**
NEIC M_L2.5(AEIC), After AEIC.
ISC IX 02 22 29 36.3±.84 **60.13N**±.077 **139.70W**±.080 **19**±10 **26 0-9**
PGC IX 02 22 29 36.1 60.2N 139.7W 5 3.9L **¶97ix0339**
NEIC IX 02 22 29 37.1 60.09N 139.82W 2
PGC Near Yakutat Bay, Alaska.
NEIC M_L3.9(PMR), M_L3.7(AEIC), After AEIC.
PGC IX 02 22 35 56.0 60.2N 139.7W 0 3.2L ¶97ix0341
PGC Near Yakutat Bay, Alaska.
ISC IX 03 15 06 32.8±.84 **59.72N**±.068 **139.3W**±.10 **14**±5.9 **22 0-5**
NEIC IX 03 15 06 31.5 59.76N 139.09W 7 **¶97ix0440**
PGC IX 03 15 06 31.8 59.6N 139.3W 10 3.2L
NEIC M_L3.1(AEIC), After AEIC.
PGC Near Yakutat Bay, Alaska.
ISC IX 07 17 08 24.1±.63 **59.98N**±.088 **140.6W**±.10 **19**±11 **16 0-2**
NEIC IX 07 17 08 23.9 59.94N 140.60W 9 **¶97ix1106**
NEIC M_L2.6(AEIC), After AEIC.
ISC IX 09 03 14 21±1.3 **60.23N**±.086 **139.79W**±.085 **4**±14 **28 0-4**
NEIC IX 09 03 14 19.5 60.25N 139.60W 0 **¶97ix1315**
PGC IX 09 03 14 22.0 60.3N 139.8W 0 3.2L
NEIC M_L3.1(AEIC), After AEIC.
PGC Near Yakutat Bay, Alaska.
ISC IX 09 04 00 32±1.5 **60.29N**±.086 **139.81W**±.086 **2**±15 **32 0-5**
NEIC IX 09 04 00 31.9 60.21N 139.79W 3 **¶97ix1321**
PGC IX 09 04 00 32.6 60.3N 139.7W 0 3.0L
NEIC M_L2.8(AEIC), After AEIC.
PGC Near Yakutat Bay, Alaska.
ISC IX 27 11 21 18±1.1 **58.28N**±.094 **133.5W**±.19 **5** **8 2-10**
PGC IX 27 11 21 19.5 58.4N 133.5W 5 3.4L **¶97ix4344**
PGC Near Mt. Ogden, British Columbia − Alaska border. Swarm activity begins September 23rd 1997, and continues into October. Only the larger events are located.
ISC IX 28 00 12 56.0±.74 **60.00N**±.089 **141.42W**±.088 **23**±7.2 **21 0-4**
NEIC IX 28 00 12 56.0 59.97N 141.44W 9 **¶97ix4491**
NEIC M_L2.5(AEIC), After AEIC.
ISC IX 28 14 30 52±8.0 **58.1N**±.78 **133.7W**±.74 **5** **4 2-7**
PGC IX 28 14 30 56.4 58.4N 133.5W 5 3.0L **¶97ix4667**
ISC Poorly determined
PGC Near Mt. Ogden, British Columbia − Alaska border.
ISC IX 30 03 37 57.6±.79 **58.93N**±.091 **138.1W**±.11 **50**±27 **31 1-7**
NEIC IX 30 03 37 54.5 59.12N 137.60W 0 **¶97ix5111**
PGC IX 30 03 37 56.9 59.1N 137.9W 10 3.4L
NEIC M_L3.4(AEIC) After AEIC.
PGC South eastern Alaska.
ISC X 06 10 14 49±8.5 **58.3N**±.55 **138.5W**±.95 **0** **4 3-6**
PGC X 06 10 14 57.5 58.8N 137.7W 0 3.0L **¶97x1028**
ISC Poorly determined
PGC Southeastern Alaska.
PGC X 20 10 05 32.6 58.8N 136.4W 5 3.4L ¶97x3476
PGC Glacier Bay, Alaska.
ISC XI 02 05 19 44.0±.65 **55.44N**±.067 **132.4W**±.20 **0** **11 2-8**
NEIC XI 02 05 19 45.8 55.43N 132.36W 0 **¶97xi0199**
PGC XI 02 05 19 45.9 55.4N 132.4W 0 3.3L
NEIC M_L3.3(PGC), After PGC.
PGC West of Ketchikan, Alaska.
ISC XI 05 11 19 12±5.6 **58.94N**±.083 **137.7W**±.10 **15**±45 **29 1-10**
PGC XI 05 11 19 10.9 58.8N 137.7W 0 3.3L **¶97xi0784**
NEIC XI 05 11 19 13.1 59.12N 137.43W 7
PGC Southeastern Alaska.
NEIC M_L3.2(AEIC), After AEIC.
ISC XI 14 19 04 55±3.8 **59.6N**±.13 **138.8W**±.53 **0** **19 0-7**
NEIC XI 14 19 04 59.7 59.83N 139.19W 0 **¶97xi2336**
NEIC M_L2.5(AEIC), After AEIC.
ISC XI 15 00 50 07±6.6 **58.6N**±.46 **137.4W**±.80 **0** **4 2-6**
PGC XI 15 00 50 13.2 58.9N 136.9W 0 3.2L **¶97xi2391**
ISC Poorly determined
PGC Glacier Bay, Alaska.
ISC XI 15 11 11 01.5±.55 **60.07N**±.060 **140.68W**±.066 **18**±7.6 **37 0-7**
NEIC XI 15 11 11 01.6 60.07N 140.64W 7 **¶97xi2464**
PGC XI 15 11 11 02.1 60.1N 140.7W 10 3.2L
NEIC M_L3.2(AEIC), After AEIC.
PGC Near Yakutat Bay, Alaska.
ISC XII 31 20 32 20±3.1 **61.0N**±.15 **139.6W**±.40 **22**±24 **11 1-3**
NEIC XII 31 20 32 16.6 61.15N 139.33W 0 **¶97xii5964**
NEIC M_L3.0(AEIC), After AEIC.

(20) Off coast of South-Eastern Alaska.

PGC VIII 16 20 14 59.0 55.8N 135.5W 0 3.0L ¶97viii2415
PGC Coast of south eastern Alaska.

(22) Queen Charlotte Islands region.

ISC VIII 26 07 57 38±3.3 **51.6N**±.26 **131.6W**±.55 **10** **6 1-3**
PGC VIII 26 07 57 40.8 51.6N 131.5W 10 3.1L **¶97viii3810**
PGC South of Moresby Island, British Columbia
ISC VIII 27 10 46 16±1.3 **51.2N**±.10 **129.6W**±.24 **10** 3.5b **19 1-37**
PGC VIII 27 10 46 09.6 50.8N 130.6W 10 3.2L **¶97viii3976**
NEIC VIII 27 10 46 16.1 51.19N 129.76W 10 3.5b
EIDC VIII 27 10 46 17.1 51.2N 129.6W 0 3.4L,3.6b
PGC West of Vancouver Island, British Columbia
NEIC Less reliable solution.
ISC IX 20 04 39 56.6±.27 **51.02N**±.031 **130.00W**±.059 **10** **4.7b,4.6s 153 1-151**
PGC IX 20 04 39 53.2 50.8N 130.6W 10 4.7b **¶97ix2901**
BJI IX 20 04 39 53.3 51.00N 130.00W 10 4.7b,5.2s
EIDC IX 20 04 39 56.0 50.9N 130.1W 0 4.5s,4.0L
NEIC IX 20 04 39 56.3 51.01N 130.02W 10 4.7b,4.6s
PGC West of Vancouver Island, British Columbia
ISC X 07 04 32 52±2.9 **54.31N**±.097 **133.5W**±.50 **18** **6 1-5**
PGC X 07 04 32 49.0 54.4N 133.9W 18 3.1L **¶97x1180**
PGC Northwest of Graham Island, British Columbia
PGC X 15 17 49 23.9 54.4N 133.9W 18 3.2L ¶97x2687
PGC Northwest of Graham Island, British Columbia
PGC X 15 23 48 20.5 54.4N 133.9W 18 3.3L ¶97x2747
PGC Northwest of Graham Island, British Columbia
ISC XII 12 09 05 16.1±.64 **51.31N**±.060 **130.2W**±.12 **10** 3.1b **44 1-30**
PGC XII 12 09 05 15.8 51.1N 130.6W 10 3.7L **¶97xii2722**
NEIC XII 12 09 05 15.9 51.26N 130.34W 10 3.2b
EIDC XII 12 09 05 17.6±2.44 51.4N 130.4W 0 3.2L,3.3b
PGC South of Moresby Island, British Columbia. Unlocated events at 09:22 and 09:24.
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=34.7km semi−minor=25.5km azimuth=68
ISC XII 28 05 06 11±1.4 **52.96N**±.082 **132.4W**±.22 **26**±8.4 3.3b **18 0-32**
PGC XII 28 05 06 11.4 52.9N 132.4W 18 3.6L **¶97xii5401**
EIDC XII 28 05 06 15.2±2.84 53.0N 131.1W 0 3.2L,3.4b
NEIC XII 28 05 06 18.0 53.36N 131.02W 10 3.2b
PGC West coast Moresby Island, British Columbia Unlocated aftershock at 05:16.
EIDC Error ellipse is semi−major=44.6km semi−minor=18.7km azimuth=76
NEIC Less reliable solution.

(24) Alberta.

ISC VII 02 18 36 26±1.3 **52.1N**±.15 **116.5W**±.16 **10** **7 1-5**
PGC VII 02 18 36 26.5 52.1N 116.4W 10 3.0L **¶97vii0283**
PGC Southeast of Jasper, Alberta.

(25) Vancouver Island region.

ISC VII 08 04 47 35±7.0 **50.0N**±.33 **129.0W**±.67 **10** **5 1-2**
PGC VII 08 04 47 31.5 49.9N 129.7W 10 3.2L **¶97vii1140**
PGC West of Vancouver Island, British Columbia
ISC VII 10 06 49 29±1.6 **49.33N**±.063 **127.7W**±.10 **19**±13 4.0b **41 1-26**
NEIC VII 10 06 49 27.9 49.23N 127.88W 10 3.6b **¶97vii1463**
PGC VII 10 06 49 27.9 49.2N 127.9W 10 4.0L
NEIC M_L4.0(PGC), After PGC.
PGC Southwest of Nootka Island, British Columbia
ISC VII 13 22 26 37±1.7 **49.10N**±.099 **128.8W**±.19 **10** 2.7b **19 1-28**
PGC VII 13 22 26 35.8 48.9N 128.9W 10 3.1L **¶97vii2030**
NEIC VII 13 22 26 36.8 49.17N 128.80W 10 3.3b
EIDC VII 13 22 26 39.3 49.4N 128.8W 0 3.4L,2.9b
PGC West of Vancouver Island, British Columbia
NEIC Poor solution.
ISC VII 23 17 10 45±3.4 **50.4N**±.26 **130.9W**±.36 **10** **8 2-4**
PGC VII 23 17 10 49.8 50.7N 130.6W 10 3.3L **¶97vii3558**
PGC West of Vancouver Island, British Columbia
ISC VIII 14 13 23 54±1.4 **49.8N**±.12 **131.1W**±.24 **10** **4.1b** **11 9-152**
NEIC VIII 14 13 23 53.7 49.74N 131.19W 10 3.5b **¶97viii2066**
EIDC VIII 14 13 23 54.3 49.7N 131.0W 0 3.6L,3.7b
NEIC Less reliable solution.
ISC VIII 16 05 10 25±1.3 **50.3N**±.20 **129.9W**±.14 **10** **10 1-15**
PGC VIII 16 05 10 24.9 50.4N 130.2W 10 3.0L **¶97viii2318**
PGC West of Vancouver Island, British Columbia
ISC VIII 16 06 23 38.1±.80 **49.12N**±.058 **128.8W**±.10 **10** **3.9b**,3.9s **46 1-79**
PGC VIII 16 06 23 35.2 48.8N 129.2W 10 3.7L **¶97viii2326**
NEIC VIII 16 06 23 37.7 49.10N 128.80W 10
EIDC VIII 16 06 23 38.9 49.2N 128.8W 0 3.5L,4.1b
PGC West of Vancouver Island, British Columbia
NEIC $M_{L3.7}$(PGC).
ISC VIII 28 23 42 53±9.6 **49.0N**±.36 **126.1W**±.93 **33** **30 1-5**
NEIC VIII 28 23 42 57.0 48.90N 125.68W 33 **¶97viii4202**
NEIC M_L2.7(PGC), M_D2.4(SEA), After PGC.
ISC IX 03 03 17 11±1.4 **50.6N**±.11 **129.9W**±.18 **10** **13 1-8**
PGC IX 03 03 17 14.3 50.8N 129.7W 10 3.2L **¶97ix0371**
PGC West of Vancouver Island, British Columbia
ISC IX 20 07 10 00.7±.19 **50.86N**±.028 **130.25W**±.050 **10** **5.0b,4.8s 311 1-151**
PGC IX 20 07 09 57.6 50.8N 130.6W 10 4.9b **¶97ix2913**
HRVD IX 20 07 09 58.9±.5 50.70N±.08 130.75W±.08 15
MOS IX 20 07 09 59.3 50.7N 130.5W 10 5.5b,4.8s
EIDC IX 20 07 09 59.5 50.8N 130.3W 0 4.5b,4.2L
NEIC IX 20 07 10 00.5 50.90N 130.15W 10 5.1b,4.8s
BJI IX 20 07 10 03.1 51.93N 130.78W 7 4.8b,5.3s
PGC West of Vancouver Island, British Columbia
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c39; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.11±.31; $M_{\theta\theta}$−1.62±.49; $M_{\phi\phi}$4.73±.49; $M_{r\theta}$−2.42±1.13; $M_{r\phi}$−1.77±1.36; $M_{\theta\phi}$6.29±.30. Principal Axes: T 9.23,Plg13°,Azm123°; N −3.20,Plg61°,Azm237°; P −6.03,Plg25°,Azm26°. Best double couple: $M_0$7.6×10^{16}Nm, NP1: ϕ_S167°,δ63°,λ−171°. NP2:ϕ_S73°,δ82°,λ−28°.
NEIC Mw5.2(HRV).
ISC IX 20 07 25 15±1.9 **50.7N**±.15 **130.6W**±.23 **10** **13 2-7**
PGC IX 20 07 25 17.6 50.8N 130.5W 10 3.5L **¶97ix2914**
PGC West of Vancouver Island, British Columbia
ISC IX 24 06 10 21.0±.53 **48.65N**±.023 **123.12W**±.040 **13**±4.8 **69 0-15**
NEIC IX 24 06 10 22.0 48.62N 123.12W 8 **¶97ix3535**
PGC IX 24 06 10 22.0 48.6N 123.1W 8 3.0L
NEIC M_D3.5(SEA) After PGC.
PGC Near San Juan Island, Washington. Felt on the Gulf Islands of Washington and British Columbia. Felt I=III on southern Vancouver Island in the greater Victoria area from Sidney to Sooke. Also felt mildly in the lower mainland − Vancouver area.
ISC X 01 08 55 04±3.7 **48.9N**±.22 **128.3W**±.31 **10** **16 1-4**
PGC X 01 08 55 06.8 48.9N 128.2W 10 3.4L **¶97x0058**
PGC Southwest of Nootka Island, British Columbia
ISC X 04 15 16 00.2±.75 **48.17N**±.040 **128.13W**±.093 **10** 4.3b,3.4s **66 2-27**
PGC X 04 15 15 57.9 47.9N 128.5W 10 4.3L **¶97x0672**
NEIC X 04 15 15 59.9 48.17N 128.13W 10
EIDC X 04 15 16 06.8 48.1N 128.1W 53 3.5L,4.1b
PGC Southwest of Vancouver Island, British Columbia
EIDC LO CONF
ISC X 21 08 10 32.4±.60 **50.63N**±.043 **129.54W**±.096 **10** **3.9b**,3.5s **106 1-57**
PGC X 21 08 10 29.1 50.4N 130.2W 10 4.0b **¶97x3624**
EIDC X 21 08 10 32.2 50.6N 129.6W 0 4.0L,4.1b
NEIC X 21 08 10 32.5 50.60N 129.54W 10 4.0b
PGC West of Vancouver Island, British Columbia
ISC XI 10 00 46 16.2±.94 **48.98N**±.062 **128.4W**±.12 **10** **3.9b** **43 1-77**
PGC XI 10 00 46 15.0 48.8N 128.7W 10 3.8L **¶97xi1532**
NEIC XI 10 00 46 15.0 48.82N 128.71W 10 3.7b
EIDC XI 10 00 46 22.3 49.1N 128.9W 42 3.6L,3.7b
PGC West of Vancouver Island, British Columbia
NEIC After PGC.
PGC XII 18 11 04 42.9 50.5N 130.3W 10 3.1L ¶97xii3753
PGC West of Vancouver Island, British Columbia
ISC XII 20 04 22 37.1±.55 **50.73N**±.051 **129.72W**±.097 **10** **4.0b**,3.5s **91 1-59**
PGC XII 20 04 22 34.0 50.4N 130.3W 10 3.9L **¶97xii4080**
NEIC XII 20 04 22 35.5 50.70N 129.92W 10 4.0b
EIDC XII 20 04 22 38.3±1.34 50.7N 129.7W 0 4.1L,4.0b
PGC West of Vancouver Island, British Columbia
EIDC Error ellipse is semi−major=27.2km semi−minor=15.9km azimuth=52

Agency		Origin Time mo d h m s		φ °		λ °		h km	Mag	n	Δ-Rng °
(28) Washington-Oregon border region.											
ISC	**VII**	**16 21 38 44.2**±.78		**45.00N**±.054		**121.86W**±.071		**2**±13		**11**	**0-2**
NEIC	VII	16 21 38 44.6		45.02N		121.88W		4			¶97vii2499
NEIC		M_D2.6(SEA), After SEA.									
ISC	**VIII**	**17 16 56 20.7**±.63		**45.64N**±.038		**120.18W**±.055		**8**±6.9		**30**	**0-3**
NEIC	VIII	17 16 56 20.0		45.65N		120.19W		0			¶97viii2563
NEIC		M_D2.8(SEA), After SEA.									
ISC	**IX**	**10 18 18 00.1**±.78		**45.64N**±.045		**120.17W**±.068		**8**±9.3		**20**	**0-3**
NEIC	IX	10 18 17 59.3		45.65N		120.20W		0			¶97ix1555
NEIC		M_D2.7(SEA), After SEA.									
ISC	**XI**	**11 22 32 34.1**±.78		**45.84N**±.029		**120.55W**±.035		**14**±7.1		**58**	**0-3**
NEIC	XI	11 22 32 34.1		45.85N		120.57W		13			¶97xi1884
NEIC		M_D2.8(SEA), After SEA.									
(29) Washington State.											
ISC	**VII**	**04 10 45 38.1**±.47		**47.73N**±.027		**119.92W**±.034		**8**±4.1		**79**	**0-6**
NEIC	VII	04 10 45 38.7		47.72N		120.02W		6			¶97vii0538
NEIC		M_D3.6(SEA), M_L3.3(GS). Felt, After SEA.									
ISC	**VII**	**11 01 26 00.0**±.97		**47.58N**±.075		**122.5W**±.11		**1**		**7**	**0-3**
NEIC	VII	11 01 26 01.0		47.58N		122.53W		1			¶97vii1605
NEIC		M_D2.2(SEA). Felt, After SEA.									
ISC	**VII**	**11 01 28 54.7**±.43		**47.61N**±.019		**122.58W**±.031		**13**±3.9		**95**	**0-16**
NEIC	VII	11 01 28 55.3		47.59N		122.55W		8			¶97vii1606
PGC	VII	11 01 28 55.5		47.6N		122.6W		5	3.0L		
NEIC		M_D3.6(SEA). Felt, After SEA.									
NEIC		Felt on Bainbridge Island and in the Seattle area.									
PGC		Near Bremerton, Washington. Aftershock. Felt.									
ISC	**VII**	**22 00 09 57**±1.0		**47.77N**±.079		**122.4W**±.13		**15**		**6**	**0-3**
NEIC	VII	22 00 09 56.7		47.77N		122.36W		15			¶97vii3300
NEIC		$M_{L2.8(GS)}$.									
ISC	**VII**	**27 15 15 39.4**±.67		**48.52N**±.036		**122.12W**±.049		**3**±5.3		**49**	**0-3**
NEIC	VII	27 15 15 40.0		48.53N		122.08W		2			¶97vii4126
NEIC		M_D2.6(SEA), After SEA.									
ISC	**VII**	**31 00 58 36.9**±.58		**47.58N**±.039		**122.51W**±.051		**7**±6.9		**33**	**0-13**
NEIC	VII	31 00 58 36.0		47.58N		122.53W		0			¶97vii4656
NEIC		M_D2.4(SEA), After SEA.									
ISC	**VIII**	**01 12 55 02.5**±.51		**47.30N**±.027		**123.74W**±.060		**10**±4.9	3.7b	**57**	**0-69**
EIDC	VIII	01 12 55 01.5		47.2N		123.7W		0	3.1b,3.7L		¶97viii0066
NEIC	VIII	01 12 55 03.0		47.30N		123.76W		0			
NEIC		M_D3.3(SEA). Felt, After SEA.									
ISC	**VIII**	**04 22 13 06**±1.7		**46.92N**±.073		**117.4W**±.18		**5**		**21**	**1-3**
NEIC	VIII	04 22 13 07.6		46.91N		117.44W		5			¶97viii0559
NEIC		M_D2.7(SEA), After SEA.									
ISC	**VIII**	**29 08 41 26**±1.1		**46.66N**±.055		**122.4W**±.10		**4**±12		**9**	**0-2**
NEIC	VIII	29 08 41 25.8		46.64N		122.43W		5			¶97viii4255
NEIC		M_D2.2(SEA), After SEA.									
ISC	**IX**	**03 17 17 25.4**±.57		**47.71N**±.027		**120.24W**±.037		**2**±5.5		**66**	**0-3**
NEIC	IX	03 17 17 26.2		47.69N		120.27W		1			¶97ix0451
NEIC		M_D3.3(SEA), After SEA.									
ISC	**IX**	**06 23 54 03**±1.2		**46.12N**±.071		**122.5W**±.12		**18**±13		**10**	**0-3**
NEIC	IX	06 23 54 03.0		46.11N		122.48W		20			¶97ix0992
NEIC		M_D2.5(SEA), After SEA.									
ISC	**IX**	**18 23 51 46.4**±.48		**47.70N**±.040		**119.99W**±.050		**7**±5.7		**27**	**0-3**
NEIC	IX	18 23 51 47.0		47.69N		120.02W		4			¶97ix2729
NEIC		M_D3.3(SEA), After SEA.									
ISC	**X**	**13 15 45 34.2**±.34		**46.13N**±.025		**120.36W**±.036		**17**±5.6		**66**	**0-3**
NEIC	X	13 15 45 34.0		46.10N		120.36W		18			¶97x2245
NEIC		M_L3.3(GS), M_D3.1(SEA), After SEA.									
ISC	**X**	**19 23 06 18.3**±.61		**47.78N**±.033		**121.86W**±.051		**14**±6.1		**30**	**0-3**
NEIC	X	19 23 06 19.0		47.77N		121.87W		3			¶97x3402
NEIC		M_L3.2(GS), M_D3.1(SEA). Felt, After SEA.									
ISC	**XI**	**06 01 24 20.4**±.85		**46.60N**±.074		**119.7W**±.12		**23**		**10**	**1-3**
NEIC	XI	06 01 24 20.9		46.53N		119.71W		23			¶97xi0896
NEIC		M_D3.3(SEA), M_L3.2(GS), After SEA.									
ISC	**XI**	**09 19 20 42.0**±.38		**46.55N**±.036		**119.67W**±.054		**25**±4.5		**34**	**0-2**
NEIC	XI	09 19 20 42.0		46.54N		119.70W		22			¶97xi1500
NEIC		M_D2.7(SEA), After SEA.									
ISC	**XI**	**14 22 14 10.8**±.35		**46.95N**±.019		**121.97W**±.030		**11**±3.2		**79**	**0-4**
NEIC	XI	14 22 14 11.5		46.95N		121.93W		10			¶97xi2359
NEIC		M_D2.7(SEA), After SEA.									
ISC	**XI**	**18 01 53 06.5**±.34		**46.15N**±.029		**120.43W**±.032		**22**±5.1		**55**	**0-6**
NEIC	XI	18 01 53 06.3		46.14N		120.47W		16			¶97xi2896
NEIC		M_D3.8(SEA), M_L3.8(GS). Felt, After SEA.									
ISC	**XI**	**18 09 51 02**±1.0		**46.15N**±.070		**120.4W**±.14		**15**		**8**	**1-2**
NEIC	XI	18 09 51 02.0		46.13N		120.46W		15			¶97xi2939
NEIC		M_D2.5(SEA), After SEA.									
ISC	**XI**	**18 09 55 10.4**±.70		**46.15N**±.022		**120.44W**±.029		**12**±6.4		**83**	**0-4**
NEIC	XI	18 09 55 10.5		46.14N		120.46W		16			¶97xi2940
NEIC		M_D3.3(SEA), After SEA.									
ISC	**XI**	**26 00 05 34.4**±.26		**47.83N**±.022		**123.11W**±.041		**51**±7.1	3.3b	**92**	**0-24**
PGC	XI	26 00 05 34.8		47.8N		123.1W		47	3.4L		¶97xi4600
NEIC	XI	26 00 05 34.9		47.79N		123.07W		47			
EIDC	XI	26 00 05 48.0		47.9N		121.6W		123	3.0b		
PGC		Olympic Peninsula, Washington. Felt mildly in Victoria, British Columbia									
NEIC		M_D3.7(SEA). Felt, After SEA.									
NEIC		Felt at Victoria, British Columbia, Canada.									
SEISMIC REGION 3. CALIFORNIA-NEVADA REGION.											
(30) Off coast of Oregon.											
ISC	**VII**	**07 13 25 09**±2.3		**43.62N**±.025		**127.40W**±.060		**10**±14	**4.6b,4.6s**	**208**	**3-128**
BJI	VII	07 13 25 08.8		43.60N		127.40W		10	5.0b,5.3s		¶97vii1050
NEIC	VII	07 13 25 08.8		43.62N		127.40W		10	4.7b,4.6s		
EIDC	VII	07 13 25 15.9		43.7N		127.2W		48	4.1b,4.5s		
ISC	**VII**	**10 18 48 40.5**±.49		**44.38N**±.044		**129.34W**±.061		**10**	**4.3b,3.7s**	**88**	**4-92**
NEIC	VII	10 18 48 39.9		44.33N		129.35W		10	4.6b		¶97vii1545
EIDC	VII	10 18 48 43.2		44.3N		129.6W		18	3.9b,3.6s		
ISC	**VII**	**11 02 03 50.4**±.27		**44.31N**±.025		**129.29W**±.032		**10**	**4.7b,4.9s**	**254**	**4-154**
NEIC	VII	11 02 03 49.8		44.27N		129.36W		10	4.9b,5.0s		¶97vii1613
HRVD	VII	11 02 03 54.3±.4		44.11N±.04		129.65W±.05		15			
BJI	VII	11 02 03 55.4		44.95N		130.23W		5	4.9b,5.2s		
EIDC	VII	11 02 03 56.5		44.3N		129.2W		47	4.1b,4.0L		
NEIC		Mw5.4(HRV).									
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c54; Mantle waves: s5,c5; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.14±.03; $M_{\theta\theta}$−1.12±.04; $M_{\phi\phi}$1.26±.05; $M_{r\theta}$0.25±.11; $M_{r\phi}$0.08±.12; $M_{\theta\phi}$−0.66±.04. Principal Axes: T 1.43,Plg1°,Azm256°; N −0.08,Plg78°,Azm348°; P −1.35,Plg12°,Azm165°. Best double couple: $M_0$1.4×10^{17}Nm, NP1:ϕ_S301°,δ81°,λ−172°. NP2:ϕ_S210°,δ82°,λ−9°.									
ISC	**VII**	**11 03 23 51**±1.3		**44.3N**±.11		**129.4W**±.16		**10**	**3.6b,**3.4s	**18**	**5-82**
EIDC	VII	11 03 23 46.5		43.8N		130.4W		0	3.3b,3.4s		¶97vii1624
NEIC	VII	11 03 23 50.2		44.35N		129.45W		10	3.5b		
NEIC		Less reliable solution.									
ISC	**VII**	**11 17 50 21**±1.5		**44.49N**±.092		**128.9W**±.18		**10**	**4.0b**	**20**	**4-25**
EIDC	VII	11 17 50 17.8		44.1N		129.5W		0	3.5L,3.5b		¶97vii1712
NEIC	VII	11 17 50 20.6		44.54N		128.97W		10	3.5b		
NEIC		Less reliable solution.									
ISC	**VII**	**11 17 52 22.1**±.83		**44.32N**±.052		**129.38W**±.089		**10**	**4.2b,3.6s**	**73**	**4-80**
EIDC	VII	11 17 52 21.0		44.2N		129.6W		0	3.9b,3.6s		¶97vii1714
NEIC	VII	11 17 52 21.8		44.33N		129.39W		10	4.0b,3.7s		
ISC	**VII**	**12 12 24 30**±7.1		**44.1N**±.20		**129.6W**±.70		**10**		**29**	**5-15**
NEIC	VII	12 12 24 29.7		44.07N		129.59W		10			¶97vii1815
NEIC		Less reliable solution.									
ISC	**VIII**	**09 02 16 49**±4.7		**43.2N**±.15		**126.8W**±.46		**10**		**52**	**3-8**
NEIC	VIII	09 02 16 49.5		43.15N		126.76W		10			¶97viii1190
NEIC		Less reliable solution.									
ISC	**VIII**	**09 16 54 48**±2.9		**42.40N**±.076		**125.7W**±.37		**10**		**11**	**2-5**
NEIC	VIII	09 16 54 48.0		42.40N		125.72W		10			¶97viii1287
NEIC		Less reliable solution.									
ISC	**VIII**	**10 17 17 28**±3.7		**42.4N**±.16		**125.5W**±.33		**10**		**55**	**2-7**
NEIC	VIII	10 17 17 27.7		42.38N		125.46W		10			¶97viii1427
ISC	**VIII**	**27 15 42 30**±6.7		**44.2N**±.19		**129.4W**±.65		**10**		**43**	**4-15**
NEIC	VIII	27 15 42 29.1		44.23N		129.45W		10			¶97viii4009
NEIC		Less reliable solution.									
ISC	**IX**	**15 03 26 11**±6.1		**42.5N**±.19		**126.3W**±.60		**10**		**15**	**2-11**
NEIC	IX	15 03 26 10.8		42.51N		126.30W		10			¶97ix2197
NEIC		Less reliable solution.									
ISC	**IX**	**20 11 20 48**±1.3		**43.26N**±.063		**126.9W**±.15		**10**	3.3b	**22**	**3-24**
NEIC	IX	20 11 20 48.8		43.29N		126.84W		10	3.3b		¶97ix2936
EIDC	IX	20 11 20 51.5		43.5N		127.1W		0	3.3b,3.3L		
ISC	**IX**	**29 20 23 54**±8.8		**43.6N**±.18		**128.0W**±.90		**10**		**23**	**4-6**
NEIC	IX	29 20 23 53.7		43.65N		127.99W		10			¶97ix5014
NEIC		Poor solution.									
ISC	**X**	**01 06 28 48.4**±.66		**43.45N**±.032		**127.13W**±.075		**10**	**4.0b**	**102**	**3-80**
NEIC	X	01 06 28 48.4		43.45N		127.11W		10	4.0b		¶97x0040
EIDC	X	01 06 28 48.5		43.4N		127.4W		0	3.9b,3.3L		
ISC	**X**	**05 01 42 55**±1.6		**43.36N**±.071		**127.0W**±.15		**10**	3.7b	**88**	**2-24**
NEIC	X	05 01 42 55.0		43.36N		126.95W		10			¶97x0780
EIDC	X	05 01 42 56.3		42.3N		127.3W		85	3.6b,3.7L		
ISC	**X**	**11 15 43 04**±7.2		**44.58N**±.067		**129.7W**±.21		**11**±42	**4.0b**	**80**	**4-82**
EIDC	X	11 15 43 02.4		44.3N		129.8W		0	3.6b,3.8L		¶97x1908
NEIC	X	11 15 43 03.4		44.56N		129.70W		10	4.3b		
ISC	**X**	**11 15 54 00.5**±.26		**44.55N**±.028		**129.74W**±.030		**10**	**4.9b,5.0s**	**248**	**5-155**
BJI	X	11 15 54 00.5		44.50N		129.70W		30	5.0b,5.3s		¶97x1909
NEIC	X	11 15 54 00.5		44.55N		129.73W		10	5.1b,5.1s		
HRVD	X	11 15 54 02.2±.4		44.17N±.05		130.10W±.05		15			
EIDC	X	11 15 54 02.7		44.3N		130.0W		26	4.3b,4.8s		
NEIC		Mw5.4(HRV).									
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c53; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.16±.04; $M_{\theta\theta}$−1.12±.05; $M_{\phi\phi}$1.28±.06; $M_{r\theta}$0.35±.17; $M_{r\phi}$0.00±.15; $M_{\theta\phi}$−0.84±.05. Principal Axes: T 1.55,Plg3°,Azm72°; N −0.08, Plg75°,Azm329°; P −1.47,Plg14°,Azm163°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S207°,δ77°,λ−8°. NP2:ϕ_S298°,δ82°,λ−167°.									
ISC	**X**	**11 17 10 18**±6.6		**45.0N**±.18		**128.6W**±.64		**10**		**36**	**4-15**
NEIC	X	11 17 10 16.8		44.97N		128.69W		10			¶97x1913
NEIC		Poor solution.									
ISC	**X**	**12 01 39 55**±4.5		**44.9N**±.11		**128.9W**±.48		**10**		**37**	**4-18**
NEIC	X	12 01 39 54.2		44.85N		129.02W		10			¶97x1970
NEIC		Less reliable solution.									
NEIC	**X**	**12 05 19 36.1**		**45.28N**		**127.98W**		**10**			**4-6**
NEIC		Poor solution.									¶97x1994
NEIC	**X**	**12 07 20 53.9**		**44.75N**		**129.14W**		**10**			**4-7**
NEIC		Poor solution.									¶97x2003
ISC	**X**	**19 04 09 29.3**±.86		**43.51N**±.033		**127.01W**±.093		**10**	**3.9b,3.5s**	**137**	**2-40**
NEIC	X	19 04 09 29.2		43.50N		127.00W		10	3.8b,3.6s		¶97x3283
EIDC	X	19 04 09 30.5		43.3N		127.6W		27	3.7b,3.5L		
ISC	**X**	**22 02 34 00**±3.3		**44.54N**±.091		**129.3W**±.33		**10**	4.2b	**79**	**4-25**
NEIC	X	22 02 34 00.2		44.53N		129.32W		10	4.1b		¶97x3738
ISC	**XI**	**02 04 20 11**±6.2		**43.4N**±.22		**127.6W**±.55		**10**		**63**	**4-8**
NEIC	XI	02 04 20 12.1		43.46N		127.44W		10			¶97xi0194
NEIC		Poor solution.									
ISC	**XI**	**15 23 44 48**±6.4		**44.6N**±.19		**128.4W**±.63		**10**		**28**	**4-14**
NEIC	XI	15 23 44 48.0		44.58N		128.40W		10			¶97xi2566
NEIC		Poor solution.									
ISC	**XI**	**16 19 26 18**±6.4		**44.8N**±.18		**128.6W**±.62		**10**		**45**	**4-15**
NEIC	XI	16 19 26 17.9		44.81N		128.66W		10			¶97xi2688
NEIC		Poor solution.									
ISC	**XII**	**03 09 43 14**±6.9		**43.72N**±.070		**127.4W**±.17		**12**±44	**3.8b**	**28**	**3-81**
EIDC	XII	03 09 43 12.2±1.74		43.5N		127.7W		0	3.7b,3.6L		¶97xii0401
NEIC	XII	03 09 43 13.8		43.71N		127.42W		10	4.0b		
EIDC		Error ellipse is semi−major=42.0km semi−minor=20.3km azimuth=45									
NEIC	**XII**	**18 21 38 07.1**		**42.71N**		**128.29W**		**10**			**4-9**
NEIC		Poor solution.									¶97xii3837
EIDC	**XII**	**20 13 20 53.8**±2.85		**43.2N**		**127.0W**		**0**	**3.0b**		**3-155**
EIDC		Error ellipse is semi−major=58.8km semi−minor=25.6km azimuth=52									¶97xii4120
(32) Oregon.											
ISC	**VII**	**23 08 57 15**±1.0		**45.97N**±.038		**118.51W**±.053		**11**±9.2		**42**	**0-5**
NEIC	VII	23 08 57 15.4		45.99N		118.50W		9			¶97vii3506
NEIC		M_L3.0(GS), M_D2.7(SEA), After SEA.									
ISC	**XII**	**21 02 20 35**±1.3		**45.69N**±.087		**118.8W**±.11		**6**±14		**17**	**0-3**
NEIC	XII	21 02 20 34.8		45.67N		118.84W		3			¶97xii4197
NEIC		M_D2.6(SEA), After SEA.									
(33) Western Idaho.											
ISC	**VII**	**24 13 47 28**±1.4		**44.2N**±.13		**114.7W**±.11		**5**		**11**	**1-4**
NEIC	VII	24 13 47 27.2		44.16N		114.73W		5			¶97vii3677
NEIC		$M_{L3.1(BUT)}$.									
ISC	**X**	**22 14 08 22**±2.0		**44.1N**±.20		**114.8W**±.14		**10**		**6**	**3-9**
NEIC	X	22 14 08 21.9		44.09N		114.74W		10			¶97x3829
NEIC		M_L3.0(GS), Less reliable solution.									

ISC XI 08 09 15 06.9±.29 **46.26N**±.056 **115.41W**±.040 **5** **54 2-6**
NEIC XI 08 09 15 06.8 46.25N 115.42W 5 **¶97xi1245**
NEIC $M_{L3.8}$(BUT), $M_{L3.5}$(GS).
ISC XI 21 21 18 27.4±.55 **44.51N**±.032 **114.86W**±.074 **5** **40 1-8**
NEIC XI 21 21 18 27.2 44.50N 114.85W 5 **¶97xi3744**
NEIC $M_{L3.9}$(BUT), $M_{L3.7}$(GS).

(34) Off coast of Northern California.

ISC VII 02 09 55 13±1.3 **40.38N**±.044 **125.4W**±.16 **5** **3.3b** **37 1-28**
NEIC VII 02 09 55 12.1 40.42N 125.58W 5 **¶97vii0217**
EIDC VII 02 09 55 23.2 40.3N 124.6W 0 3.1b,3.1L
NEIC M_L3.9(BRK), Mw3.8(BRK), After GM−P.
NEIC MD 3.4 (GM). Mo=6.3×10^{14}Nm (BRK).
ISC VII 07 02 56 04±4.2 **40.33N**±.097 **126.2W**±.44 **20** **14 2-6**
NEIC VII 07 02 56 07.7 40.47N 125.99W 20 **¶97vii0980**
NEIC M_D3.0(GM), M_L3.0(BRK), After GM−P.
ISC VII 16 19 39 30.9±.75 **40.29N**±.031 **125.12W**±.093 **6** **4.1b**,3.7s **89 1-153**
NEIC VII 16 19 39 32.7 40.38N 125.09W 6 3.8b **¶97vii2484**
EIDC VII 16 19 39 34.5 40.5N 124.9W 0 4.1b,3.8L
NEIC Mw4.2(BRK), M_L4.2(BRK), After GM−P.
NEIC MD 3.9 (GM). ML 4.0 (GS).
ISC VII 16 19 55 43±3.8 **40.42N**±.075 **125.5W**±.42 **48**±53 **17 1-6**
NEIC VII 16 19 55 45.4 40.39N 125.08W 3 **¶97vii2487**
NEIC M_L3.5(BRK), M_D3.4(GM), After GM−P.
ISC VIII 19 16 16 28±6.2 **41.6N**±.12 **125.5W**±.68 **5** **7 1-5**
NEIC VIII 19 16 16 26.3 41.67N 125.78W 5 **¶97viii2834**
NEIC M_D2.9(GM), After GM−P.
ISC VIII 20 12 07 29±3.2 **40.36N**±.071 **126.7W**±.36 **10** **19 2-10**
NEIC VIII 20 12 07 28.8 40.37N 126.72W 10 **¶97viii2957**
NEIC Less reliable solution.
ISC VIII 23 07 48 59±7.5 **40.37N**±.066 **125.3W**±.27 **8**±49 **26 1-14**
NEIC VIII 23 07 49 01.1 40.39N 125.19W 1 **¶97viii3361**
NEIC Mw4.0(BRK), M_D3.6(GM), After GM−P.
NEIC ML 3.6 (GS), 3.6 (BRK).
ISC VIII 30 04 57 20±3.9 **40.36N**±.095 **126.2W**±.43 **3** **10 2-6**
NEIC VIII 30 04 57 20.0 40.44N 126.33W 3 **¶97viii4429**
NEIC M_L3.3(GS), M_D3.1(GM), After GM−P.
ISC IX 07 15 14 01±5.5 **40.4N**±.15 **126.4W**±.61 **7** **5 2-5**
NEIC IX 07 15 14 03.3 40.52N 126.31W 7 **¶97ix1091**
NEIC M_D2.9(GM), After GM−P.
ISC IX 08 01 30 36±1.8 **41.5N**±.10 **127.1W**±.21 **10** **3.1b** **14 2-26**
NEIC IX 08 01 30 35.8 41.49N 127.08W 10 3.3b **¶97ix1150**
EIDC IX 08 01 30 38.6 41.8N 127.3W 0 3.1b,3.6L
NEIC Less reliable solution.
EIDC LO CONF Depth
NEIC IX 11 13 03 49.6 **40.68N** **126.13W** **5** **3-6**
NEIC M_D3.0(GM), After GM−P. **¶97ix1677**
ISC IX 21 12 36 26.8±.39 **41.60N**±.030 **126.23W**±.054 **10** **4.6b,4.6s** **126 2-150**
NEIC IX 21 12 36 26.6 41.61N 126.24W 10 4.8b,4.7s **¶97ix3101**
EIDC IX 21 12 36 28.2 41.8N 126.2W 0 4.3b,4.0L
HRVD IX 21 12 36 30.6±.6 41.56N±.07 126.20W±.11 15
NEIC Mw5.4(HRV), M_L4.9(BRK).
NEIC Mw 5.2 (BRK).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c33; Half duration: 1s^2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.14±.05; $M_{\theta\theta}$−1.06±.06; $M_{\phi\phi}$0.91±.07; $M_{r\theta}$0.38±.23; $M_{r\phi}$0.84±.25; $M_{\theta\phi}$0.41±.09. Principal Axes: T 1.57,Plg32°,Azm284°; N −0.38, Plg55°,Azm78°; P −1.18,Plg12°,Azm186°. Best double couple: $M_0$1.4×10^{17}Nm, NP1: ϕ_S320°,δ58°,λ164°. NP2:ϕ_S59°,δ77°,λ33°.
ISC IX 27 08 08 15.7±.77 **40.32N**±.029 **125.39W**±.094 **10** **3.8b** **78 1-27**
NEIC IX 27 08 08 15.8 40.33N 125.35W 10 **¶97ix4299**
EIDC IX 27 08 08 17.2 40.3N 125.2W 0 3.5L,3.9b
NEIC Mw4.3(BRK), M_L4.0(BRK).
ISC X 02 20 46 57±6.0 **40.4N**±.21 **125.7W**±.59 **1** **4 1-4**
NEIC X 02 20 47 04.3 40.35N 125.20W 1 **¶97x0342**
ISC Poorly determined
NEIC M_D2.8(GM), After GM−P.
ISC X 04 10 57 34.2±.30 **41.10N**±.019 **125.20W**±.040 **7** **4.9b,5.1s** **263 1-154**
NEIC X 04 10 57 34.0 41.05N 125.36W 7 5.0b,5.2s **¶97x0631**
EIDC X 04 10 57 35.6 41.2N 125.1W 0 4.5b,5.1s
BJI X 04 10 57 35.9 40.13N 126.03W 34 4.9b,5.6s
HRVD X 04 10 57 38.6±.2 40.96N±.02 125.33W±.03 15
NEIC Mw5.6(HRV), M_D5.1(GM). Felt, After GM−P.
NEIC Mw 5.5 (BRK). ML 5.1 (BRK). A few items knocked from shelves at Eureka and Patrick's Point. Also felt at Arcata, Fields Landing, Fortuna, McKinleyville and Trinidad. Felt from Crescent City to Weott.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c83; Mantle waves: s7,c8; Half duration: 1s^5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.15±.04; $M_{\theta\theta}$−2.74±.04; $M_{\phi\phi}$2.59±.05; $M_{r\theta}$0.31±.15; $M_{r\phi}$0.67±.14; $M_{\theta\phi}$0.29±.05. Principal Axes: T 2.79,Plg15°,Azm274°; N −0.01,Plg74°,Azm72°; P −2.78,Plg6°,Azm182°. Best double couple: $M_0$2.8×10^{17}Nm, NP1:ϕ_S317°,δ76°,λ173°. NP2:ϕ_S49°,δ84°,λ14°.
ISC X 05 06 34 33±1.7 **41.01N**±.050 **125.5W**±.19 **3** **27 1-12**
NEIC X 05 06 34 37.0 41.05N 125.25W 3 **¶97x0818**
NEIC M_D3.9(GM), M_L3.5(BRK), After GM−P.
NEIC ML 3.5 (GS).
ISC X 06 12 00 23.1±.91 **41.04N**±.046 **125.3W**±.10 **8** **3.9b**,3.3s **47 1-27**
NEIC X 06 12 00 24.1 41.08N 125.37W 8 3.8b **¶97x1040**
EIDC X 06 12 00 25.5 41.1N 125.1W 0 3.7L,3.9b
NEIC Mw4.2(BRK), M_D4.1(GM), After GM−P.
ISC X 06 12 20 06±2.8 **41.04N**±.051 **125.3W**±.20 **18**±18 3.2b **43 1-27**
NEIC X 06 12 20 04.6 41.07N 125.44W 3 **¶97x1044**
EIDC X 06 12 20 08.4 41.2N 125.0W 0 3.4b,3.6L
NEIC M_L3.8(BRK), M_D3.7(GM), After GM−P.
NEIC ML 3.6 (GS).
ISC X 12 23 37 27.0±.79 **41.12N**±.027 **126.06W**±.095 **5** **4.6b,3.7s** **107 2-38**
NEIC X 12 23 37 27.8 41.13N 125.94W 5 4.6b,3.7s **¶97x2126**
EIDC X 12 23 37 36.6 41.4N 125.6W 23 3.7L,4.1b
NEIC Mw4.5(BRK), M_D4.5(GM).
NEIC ML 4.4 (BRK).
ISC X 13 08 49 36±5.7 **40.3N**±.11 **126.9W**±.60 **10** **11 2-6**
NEIC X 13 08 49 36.0 40.31N 126.83W 10 **¶97x2192**
NEIC Poor solution.
ISC X 23 10 45 52±4.6 **41.1N**±.11 **125.7W**±.50 **10** **9 1-5**
NEIC X 23 10 45 51.7 41.06N 125.67W 10 **¶97x3974**
NEIC Poor solution.
ISC X 26 10 44 05.4±.25 **41.06N**±.022 **125.21W**±.039 **5** **5.0b,4.7s** **222 1-153**
EIDC X 26 10 44 07.5 41.1N 125.2W 0 4.6b,4.6s **¶97x4451**
BJI X 26 10 44 08.0 41.00N 125.20W 5 5.0b,5.2s
NEIC X 26 10 44 08.0 41.00N 125.17W 5 5.1b,4.8s
HRVD X 26 10 44 11.2±.6 41.10N±.06 125.21W±.08 15
NEIC Mw5.4(HRV), M_D5.2(GM). Felt, After GM−P.
NEIC Mw 5.2 (BRK). ML 5.2 (BRK). Felt at Arcata, Big Lagoon, Eureka, Ferndale, Fields Landing, Fortuna, Jedediah Smith Redwoods State Park, McKinleyville and Petrolia.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c37; Half duration: 1s^2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.15±.04; $M_{\theta\theta}$−1.14±.05; $M_{\phi\phi}$0.99±.06; $M_{r\theta}$0.21±.20; $M_{r\phi}$0.68±.19; $M_{\theta\phi}$0.34±.07. Principal Axes: T 1.42,Plg29°,Azm280°; N −0.23, Plg61°,Azm88°; P −1.20,Plg5°,Azm187°. Best double couple: $M_0$1.3×10^{17}Nm, NP1:ϕ_S320°, δ66°,λ162°. NP2:ϕ_S57°,δ74°,λ25°.
ISC XII 18 19 07 24±2.5 **40.3N**±.10 **125.4W**±.25 **0** **19 1-7**
NEIC XII 18 19 07 26.4 40.41N 125.20W 0 **¶97xii3807**
NEIC M_L3.2(BRK), M_L3.1(GM), After GM−P.
ISC XII 19 23 18 13±1.9 **41.5N**±.18 **127.2W**±.27 **10** **3.2b** **8 3-26**
EIDC XII 19 23 18 12.4±3.45 41.4N 127.6W 0 3.3b **¶97xii4046**
NEIC XII 19 23 18 12.9 41.38N 127.20W 10 3.1b
EIDC Error ellipse is semi−major=67.5km semi−minor=27.6km azimuth=50
NEIC Poor solution.
NEIC XII 28 04 32 24.7 **40.38N** **125.14W** **0** **1-2**
NEIC M_D2.7(GM), After GM−P. **¶97xii5396**

(35) Near coast of Northern California.

ISC VII 11 20 32 49±2.4 **41.99N**±.077 **124.7W**±.30 **21** **10 2-5**
NEIC VII 11 20 32 49.0 42.01N 124.60W 21 **¶97vii1726**
NEIC M_D2.7(SEA). Felt, After SEA.
ISC VII 20 17 01 43±1.3 **38.88N**±.076 **123.4W**±.17 **7** **8 0-3**
NEIC VII 20 17 01 39.8 38.87N 123.65W 7 **¶97vii3121**
NEIC M_D2.8(GM), After GM−P.
ISC VII 21 22 24 27±2.7 **40.69N**±.078 **124.5W**±.29 **32**±11 **13 0-4**
NEIC VII 21 22 24 28.9 40.68N 124.38W 21 **¶97vii3291**
NEIC Mw3.7(BRK), M_D3.5(GM), After GM−P.
NEIC ML 3.5 (GS), 3.4 (BRK). Mo=3.6×10^{14}Nm (BRK).
ISC VII 23 22 03 52±2.7 **40.27N**±.060 **124.8W**±.29 **19** **14 1-5**
NEIC VII 23 22 03 56.2 40.30N 124.56W 19 **¶97vii3579**
NEIC M_D3.4(GM), M_L3.3(BRK), After GM−P.
NEIC ML 3.3 (GS).
ISC VIII 03 15 50 54±1.0 **38.99N**±.073 **123.1W**±.15 **4**±7.5 **10 0-3**
NEIC VIII 03 15 50 53.9 39.02N 123.07W 4 **¶97viii0380**
NEIC M_L3.0(GS), M_D2.8(GM), After GM−P.
ISC VIII 06 19 29 25±1.3 **40.69N**±.031 **124.5W**±.10 **26**±9.5 3.8b,3.2s **69 0-23**
EIDC VIII 06 19 29 23.0 40.6N 124.7W 0 3.5L,3.8b **¶97viii0834**
NEIC VIII 06 19 29 26.6 40.75N 124.45W 21
NEIC Mw4.3(BRK), M_D4.0(GM). Felt, After GM−P.
NEIC ML 4.0 (BRK), 3.9 (GS). Items knocked from shelves at Arcata. Felt strongly at Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Loleta, McKinleyville and Petrolia.
ISC VIII 09 14 09 35±7.9 **40.3N**±.14 **125.0W**±.84 **20** **5 1-7**
NEIC VIII 09 14 09 39.4 40.31N 124.67W 20 **¶97viii1263**
NEIC M_D2.8(GM), After GM−P.
ISC VIII 12 03 13 30±7.5 **40.6N**±.18 **125.0W**±.72 **20** **5 1-3**
NEIC VIII 12 03 13 36.4 40.60N 124.49W 20 **¶97viii1673**
NEIC M_D2.8(GM), After GM−P.
ISC VIII 21 05 31 23±6.9 **40.3N**±.11 **124.7W**±.74 **23** **6 1-3**
NEIC VIII 21 05 31 26.7 40.35N 124.43W 23 **¶97viii3059**
NEIC M_D2.9(GM), After GM−P.
ISC IX 20 06 08 03±2.5 **40.97N**±.073 **124.4W**±.30 **32**±9.2 **12 0-4**
NEIC IX 20 06 08 02.5 40.96N 124.48W 21 **¶97ix2907**
NEIC M_L3.3(BRK), M_D3.1(GM). Felt, After GM−P.
NEIC Felt slightly at Arcata and McKinleyville.
ISC IX 28 00 57 48±7.9 **40.4N**±.13 **124.9W**±.91 **31** **5 1-3**
NEIC IX 28 00 57 54.4 40.34N 124.25W 31 **¶97ix4500**
NEIC M_D2.8(GM), After GM−P.
ISC X 02 19 57 49±3.2 **40.4N**±.10 **124.3W**±.32 **26**±12 **14 0-3**
NEIC X 02 19 57 49.8 40.45N 124.29W 20 **¶97x0337**
NEIC M_D3.1(GM), M_L3.1(BRK), After GM−P.
ISC X 07 00 17 03±3.5 **40.4N**±.13 **124.3W**±.42 **37**±43 **9 0-3**
NEIC X 07 00 17 02.1 40.40N 124.43W 20 **¶97x1142**
NEIC M_D3.1(GM), M_L3.1(BRK), After GM−P.
ISC X 08 04 02 25.3±.95 **39.01N**±.050 **123.1W**±.13 **11**±7.6 **16 0-3**
NEIC X 08 04 02 25.5 39.04N 123.12W 6 **¶97x1352**
NEIC M_D3.1(GM), M_L3.1(GS). Felt, After GM−P.
NEIC ML 2.8 (BRK). Felt at Ukiah.
NEIC X 13 16 31 38.0 **40.39N** **124.95W** **7** **1-2**
NEIC M_D2.8(GM), After GM−P. **¶97x2251**
ISC XI 22 01 33 18±1.2 **38.88N**±.033 **123.19W**±.095 **12**±8.3 **3.5b** **43 0-85**
NEIC XI 22 01 33 18.8 38.89N 123.22W 3 **¶97xi3775**
EIDC XI 22 01 33 22.6 39.3N 122.9W 0 3.6b,2.9L
NEIC Mw3.9(BRK), M_L3.9(BRK), After GM−P.
NEIC ML 3.7 (GM).
ISC XI 22 02 22 46±1.2 **38.91N**±.057 **123.1W**±.14 **12**±8.4 **15 0-5**
NEIC XI 22 02 22 46.0 38.89N 123.22W 1 **¶97xi3785**
NEIC M_D3.4(GM), After GM−P.
ISC XII 03 15 28 26±4.8 **40.3N**±.12 **124.1W**±.67 **7** **4 0-2**
NEIC XII 03 15 28 24.1 40.29N 124.29W 7 **¶97xii0455**
ISC Poorly determined
NEIC M_D2.8(GM), After GM−P.
ISC XII 15 22 42 40±1.5 **40.26N**±.039 **124.5W**±.12 **21**±11 **3.7b**,3.3s **41 1-68**
EIDC XII 15 22 42 40.0±2.43 40.4N 124.6W 0 3.8b,3.9L **¶97xii3352**
NEIC XII 15 22 42 42.1 40.31N 124.55W 22
EIDC Error ellipse is semi−major=44.0km semi−minor=26.5km azimuth=34
NEIC Mw4.2(BRK), M_L4.1(GM). Felt, After GM−P.
NEIC ML 4.1 (BRK). Felt at Arcata, Carlotta, Cutten, Ettersburg, Eureka, Ferndale, Fortuna, Holmes, Honeydew, Loleta, Petrolia and Rio Dell.
ISC XII 18 21 19 33.9±.58 **40.18N**±.027 **124.60W**±.075 **9** **4.0b**,3.9s **76 1-70**
EIDC XII 18 21 19 35.1±1.64 40.2N 124.6W 0 3.8b,4.0s **¶97xii3830**
NEIC XII 18 21 19 36.0 40.30N 124.47W 9 4.6b
EIDC Error ellipse is semi−major=42.1km semi−minor=17.0km azimuth=46
NEIC Mw4.6(BRK), M_L4.5(BRK). Felt, After GM−P.
NEIC ML 4.4 (GM), , 4.4 (GS). Felt at Arcata, Eureka, Ferndale, Fortuna, Honeydew and Petrolia.
ISC XII 18 21 32 30±8.2 **40.4N**±.30 **124.8W**±.73 **8** **4 1-3**
NEIC XII 18 21 32 34.0 40.31N 124.45W 8 **¶97xii3834**
ISC Poorly determined
NEIC M_D2.4(GM), After GM−P.
ISC XII 18 21 32 59±1.9 **40.17N**±.058 **124.5W**±.23 **9** 2.9b **14 1-23**
NEIC XII 18 21 32 59.8 40.31N 124.46W 9 2.9b **¶97xii3835**
NEIC M_L3.5(BRK), M_D3.0(GM), After GM−P.
ISC XII 19 00 33 39±4.4 **40.20N**±.090 **124.6W**±.47 **9** **8 1-3**
NEIC XII 19 00 33 40.0 40.31N 124.49W 9 **¶97xii3862**
NEIC M_L3.3(GM), M_L3.3(BRK), After GM−P.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °

(36) Northern California.

ISC	**VII 07 20 47 22**±1.1	**38.78N**±.038	**122.77W**±.084	**5**±11		**22**	**0-5**
NEIC	VII 07 20 47 22.2	38.81N	122.82W	2			¶97vii1089
NEIC	M_D3.1(GM), M_L3.0(BRK), After GM−P.						
NEIC	**VII 16 10 14 12.0**	**39.62N**	**120.06W**	**12**			**2-3**
NEIC	M_D2.8(GM), After GM−P.						¶97vii2421
ISC	**VII 23 03 18 03.0**±.83	**40.87N**±.043	**123.37W**±.083	**32**±12	**3.6b**	**33**	**0-28**
EIDC	VII 23 03 17 57.9	40.5N	123.9W	0	3.3$_L$,3.8b		¶97vii3472
NEIC	VII 23 03 18 03.8	40.90N	123.37W	25			
NEIC	Mw4.0(BRK), M_L4.0(BRK). Felt, After GM−P.						
NEIC	MD 3.9 (GM). ML 3.7 (GS). Felt at Blue Lake and Willow Creek.						
ISC	**VII 25 07 59 10**±1.0	**40.15N**±.093	**121.3W**±.13	**6**		**6**	**2-3**
NEIC	VII 25 07 59 09.4	40.20N	121.32W	6			¶97vii3801
NEIC	M_D3.0(GM), After GM−P.						
ISC	**VII 31 23 56 07**±1.1	**38.76N**±.050	**122.6W**±.10	**8**±12		**15**	**0-5**
NEIC	VII 31 23 56 07.4	38.76N	122.72W	3			¶97vii4802
NEIC	M_D3.2(GM), M_L3.2(GS), After GM−P.						
ISC	**VIII 01 20 16 47**±1.2	**39.36N**±.043	**122.76W**±.086	**3**±12		**20**	**0-4**
NEIC	VIII 01 20 16 48.3	39.36N	122.87W	15			¶97viii0108
NEIC	M_D3.3(GM), M_L3.2(BRK), After GM−P.						
NEIC	ML 3.2 (GS).						
ISC	**VIII 24 15 08 35**±1.2	**38.79N**±.073	**122.8W**±.14	**6**±15		**10**	**0-3**
NEIC	VIII 24 15 08 34.7	38.83N	122.77W	2			¶97viii3553
NEIC	M_D2.5(GM), M_L2.5(GS), After GM−P.						
ISC	**IX 06 08 04 45**±1.1	**38.77N**±.070	**122.7W**±.13	**3**		**8**	**1-4**
NEIC	IX 06 08 04 44.9	38.79N	122.75W	3			¶97ix0883
NEIC	M_L2.9(GS), M_D2.7(GM), After GM−P.						
ISC	**IX 10 00 07 58**±2.3	**39.8N**±.14	**120.4W**±.31	**0**		**4**	**2-7**
NEIC	IX 10 00 07 57.7	39.86N	120.49W	0			¶97ix1458
ISC	Poorly determined						
NEIC	M_D2.8(GM), After GM−P.						
ISC	**IX 30 01 46 29.6**±.66	**38.44N**±.044	**122.50W**±.094	**9**		**19**	**1-2**
NEIC	IX 30 01 46 30.5	38.39N	122.61W	9			¶97ix5094
NEIC	M_L3.1(BRK), M_D2.9(GM), After GM−P.						
ISC	**X 06 12 17 18.7**±.94	**38.75N**±.037	**122.73W**±.089	**10**±9.5		**26**	**0-5**
NEIC	X 06 12 17 18.5	38.79N	122.77W	1			¶97x1043
NEIC	M_D3.3(GM), M_L3.3(BRK), After GM−P.						
ISC	**X 07 04 18 42**±2.6	**40.69N**±.064	**121.2W**±.11	**0**±22		**11**	**0-6**
NEIC	X 07 04 18 44.2	40.64N	121.25W	12			¶97x1176
NEIC	M_L3.0(BRK), M_D2.8(GM), After GM−P.						
ISC	**X 12 11 50 56**±2.3	**40.54N**±.079	**122.2W**±.12	**5**±21		**7**	**0-3**
NEIC	X 12 11 50 57.1	40.49N	122.22W	19			¶97x2034
NEIC	M_D2.8(GM). Felt, After GM−P.						
NEIC	Felt in the Redding area.						
ISC	**X 13 07 42 36.6**±.79	**38.75N**±.061	**122.61W**±.094	**3**		**8**	**0-2**
NEIC	X 13 07 42 36.9	38.75N	122.73W	3			¶97x2177
NEIC	M_D2.9(GM), After GM−P.						
ISC	**X 14 07 25 58**±1.0	**38.51N**±.068	**122.6W**±.13	**9**		**6**	**1-1**
NEIC	X 14 07 25 58.0	38.51N	122.59W	9			¶97x2354
NEIC	M_D2.4(GM). Felt, After GM−P.						
NEIC	Felt in the epicentral area.						
ISC	**X 14 18 18 03.5**±.37	**39.69N**±.036	**120.09W**±.044	**0**		**33**	**1-7**
NEIC	X 14 18 18 05.0	39.62N	120.09W	0			¶97x2466
NEIC	M_D3.6(GM), M_L3.5(BRK), After GM−P.						
NEIC	ML 3.5 (GS).						
ISC	**X 15 02 13 18**±1.1	**41.13N**±.082	**123.3W**±.16	**40**		**7**	**1-4**
NEIC	X 15 02 13 17.9	41.11N	123.30W	40			¶97x2538
NEIC	M_D2.9(GM), After GM−P.						
ISC	**X 15 06 35 55.0**±.58	**39.65N**±.053	**120.15W**±.065	**4**		**16**	**1-6**
NEIC	X 15 06 35 55.7	39.60N	120.11W	4			¶97x2578
NEIC	M_L3.0(BRK), M_D2.9(GM), After GM−P.						
ISC	**X 15 14 55 02.2**±.59	**39.61N**±.054	**120.14W**±.062	**4**		**17**	**1-4**
NEIC	X 15 14 55 01.4	39.62N	120.07W	4			¶97x2660
NEIC	M_D3.2(GM), M_L3.1(BRK), After GM−P.						
ISC	**X 15 18 58 04.4**±.61	**39.65N**±.062	**120.14W**±.062	**5**		**15**	**1-6**
NEIC	X 15 18 58 04.2	39.66N	120.14W	5			¶97x2695
NEIC	M_L3.0(BRK).						
ISC	**X 25 08 54 48.8**±.68	**39.61N**±.028	**122.13W**±.048	**19**±8.1	**3.7b**	**50**	**0-71**
EIDC	X 25 08 54 48.0	39.8N	122.1W	0	3.1$_L$,3.8b		¶97x4302
NEIC	X 25 08 54 49.3	39.60N	122.07W	13			
NEIC	M_L3.9(GS), Mw3.8(BRK). Felt, After GM−P.						
NEIC	MD 3.8 (GM). ML 3.9 (BRK). Felt in the Willows area. Mo=5.6×10^{14}Nm (BRK).						
ISC	**XI 01 15 15 32.9**±.56	**40.05N**±.047	**121.54W**±.076	**12**		**14**	**0-7**
NEIC	XI 01 15 15 32.6	40.06N	121.47W	12			¶97xi0096
NEIC	M_L3.3(BRK), M_D3.0(GM), After GM−P.						
NEIC	ML 3.2 (GS).						
ISC	**XI 05 17 49 28.5**±.22	**39.91N**±.021	**120.87W**±.030	**5**	**4.2b**	**86**	**1-116**
NEIC	XI 05 17 49 28.3	39.91N	120.85W	5	4.4b		¶97xi0837
EIDC	XI 05 17 49 31.1	39.9N	120.9W	0	4.1b,3.7$_L$		
NEIC	M_L4.8(BRK), Mw4.3(BRK). Felt I=V MM.						
NEIC	ML 4.5 (GS). MD 4.4 (GM). Felt I=V MM at Chilcoot, Crescent Mills, Cromberg, Downieville, Graeagle, Greenville, Tobin and Twain; IV MM at Alleghany, Berry Creek, Canyondam, Challenge, Meadow Valley, Portola, Pulga, Sierra City, Strawberry Valley, Susanville, Vinton and Washington. Felt as far as West Sacramento, California and in the Reno-Sparks area, Nevada.						
ISC	**XI 06 07 03 59**±2.2	**39.90N**±.061	**120.92W**±.078	**5**±17		**15**	**1-7**
NEIC	XI 06 07 03 58.2	39.90N	120.89W	5			¶97xi0940
NEIC	M_D2.9(GM).						
ISC	**XI 14 09 50 05.3**±.77	**40.49N**±.070	**121.58W**±.098	**4**		**10**	**1-4**
NEIC	XI 14 09 50 05.5	40.48N	121.52W	4			¶97xi2269
NEIC	M_D2.8(GM), After GM−P.						
ISC	**XI 14 23 37 06.5**±.45	**39.58N**±.044	**120.29W**±.048	**5**		**26**	**1-8**
NEIC	XI 14 23 37 06.2	39.54N	120.29W	5			¶97xi2378
NEIC	M_L3.6(BRK), M_L3.5(GS).						
NEIC	MD 3.5 (GM).						
ISC	**XI 16 17 25 58**±1.1	**38.82N**±.072	**122.9W**±.14	**7**±14		**8**	**0-2**
NEIC	XI 16 17 25 57.6	38.83N	122.88W	4			¶97xi2675
NEIC	M_D2.9(GM), After GM−P.						
ISC	**XI 25 13 00 47.5**±.72	**39.66N**±.034	**122.20W**±.056	**19**±9.6	3.6b	**33**	**1-21**
EIDC	XI 25 13 00 43.9	39.9N	122.3W	0	3.3$_L$,3.6b		¶97xi4513
NEIC	XI 25 13 00 48.1	39.67N	122.15W	17			
NEIC	M_L3.6(BRK), M_L3.5(GM), After GM−P.						
ISC	**XI 27 20 39 12**±1.0	**38.72N**±.072	**122.8W**±.14	**10**±12		**9**	**0-4**
NEIC	XI 27 20 39 11.0	38.78N	122.74W	2			¶97xi4934
NEIC	M_D2.9(GM), M_L2.9(GS), After GM−P.						
ISC	**XII 05 23 10 24**±1.0	**38.78N**±.046	**122.7W**±.10	**8**±12		**18**	**0-4**
NEIC	XII 05 23 10 23.7	38.80N	122.74W	2			¶97xii1139
NEIC	M_L3.1(GM), M_L3.1(BRK), After GM−P.						
ISC	**XII 13 04 42 37.4**±.70	**40.65N**±.059	**121.25W**±.092	**8**		**10**	**0-4**
NEIC	XII 13 04 42 37.2	40.63N	121.15W	8			¶97xii2889
NEIC	M_L3.4(BRK), M_L3.3(GM), After GM−P.						
ISC	**XII 16 04 53 10**±1.3	**38.77N**±.069	**122.6W**±.14	**7**±17		**9**	**0-4**
NEIC	XII 16 04 53 09.8	38.76N	122.71W	2			¶97xii3385
NEIC	M_D2.9(GM), After GM−P.						
ISC	**XII 30 03 37 57.0**±.90	**40.9N**±.10	**123.6W**±.28	**31**±28		**9**	**0-4**
NEIC	XII 30 03 37 57.8	40.85N	123.69W	31			¶97xii5675
NEIC	M_D3.2(GM), M_L3.2(BRK), After GM−P.						

(37) Nevada.

NEIC	**VII 16 16 39 58.5**	**39.39N**	**119.85W**	**0**			**1-3**
NEIC	M_D2.8(GM), After GM−P.						¶97vii2468
ISC	**VIII 29 15 48 09.5**±.41	**41.87N**±.039	**119.83W**±.055	**5**		**29**	**1-8**
NEIC	VIII 29 15 48 09.0	41.85N	119.79W	5			¶97viii4339
NEIC	M_D4.0(GM), M_L3.9(BRK).						
NEIC	ML 3.8 (GS).						
ISC	**XI 07 08 54 28.5**±.43	**39.17N**±.050	**116.39W**±.051	**10**		**22**	**1-6**
NEIC	XI 07 08 54 28.3	39.17N	116.39W	10			¶97xi1102
NEIC	M_L3.4(GS).						
ISC	**XI 16 09 42 29.8**±.62	**38.25N**±.067	**116.70W**±.067	**5**		**13**	**0-5**
NEIC	XI 16 09 42 29.5	38.26N	116.68W	5			¶97xi2628
NEIC	M_D2.9(REN).						
ISC	**XII 13 19 08 52.3**±.62	**38.29N**±.060	**115.74W**±.069	**5**		**14**	**1-5**
NEIC	XII 13 19 08 52.2	38.33N	115.74W	5			¶97xii2999
NEIC	M_D3.3(REN).						

(38) Off coast of California.

ISC	**VIII 12 12 34 28**±1.5	**32.8N**±.12	**118.40W**±.076	**5**		**32**	**1-5**
ECX	VIII 12 12 34 28.4	32.85N	118.37W	5	3.7$_D$		¶97viii1748
NEIC	VIII 12 12 34 30.0	32.84N	118.40W	17			
NEIC	M_L3.6(PAS). Felt, After PAS.						
ISC	**XI 04 22 43 14**±1.6	**32.6N**±.11	**118.18W**±.090	**6**		**26**	**1-5**
NEIC	XI 04 22 43 16.4	32.68N	118.46W	6			¶97xi0700
ECX	XI 04 22 43 16.5	32.54N	118.09W	20	3.6$_D$		
NEIC	M_L3.3(PAS), After PAS.						
ISC	**XI 26 05 56 26**±1.3	**32.62N**±.097	**118.20W**±.081	**6**		**31**	**1-5**
NEIC	XI 26 05 56 28.7	32.70N	118.12W	6			¶97xi4643
NEIC	M_D3.7(ECX), M_L3.5(PAS), After PAS.						
NEIC	ML 3.6 (GS).						

(39) Central California.

ISC	**VII 01 13 05 15**±1.4	**35.82N**±.054	**117.63W**±.084	**3**±13		**11**	**0-4**
NEIC	VII 01 13 05 15.8	35.79N	117.64W	5			¶97vii0093
NEIC	M_L2.9(PAS), After PAS.						
ISC	**VII 01 17 37 53.1**±.44	**35.79N**±.030	**117.69W**±.049	**5**		**31**	**0-4**
NEIC	VII 01 17 37 52.5	35.79N	117.64W	5			¶97vii0120
NEIC	M_L3.1(PAS), After PAS.						
ISC	**VII 03 17 49 36.2**±.79	**35.77N**±.026	**117.61W**±.035	**0**±6.5	**3.7b**	**62**	**0-122**
EIDC	VII 03 17 49 36.4	35.7N	117.8W	0	3.6$_L$,3.7b		¶97vii0433
NEIC	VII 03 17 49 37.5	35.79N	117.64W	5	4.0b		
NEIC	M_L4.5(BRK), Mw4.1(BRK). Felt I=IV MM, After PAS.						
NEIC	ML 4.3 (PAS). Felt I=IV MM at China Lake. Also felt in the Ridgecrest area.						
ISC	**VII 09 16 14 48.0**±.63	**37.95N**±.045	**122.04W**±.062	**13**±5.9		**22**	**0-3**
NEIC	VII 09 16 14 47.6	37.93N	122.03W	12			¶97vii1364
NEIC	M_D3.0(GM), M_L2.9(BRK). Felt, After GM−P.						
NEIC	ML 2.9 (GS). Felt at Concord, Pleasant Hill and Walnut Creek.						
ISC	**VII 14 06 11 10**±1.3	**37.10N**±.066	**122.4W**±.10	**17**±9.0		**32**	**0-11**
NEIC	VII 14 06 11 11.8	37.18N	122.32W	15			¶97vii2075
NEIC	M_L3.8(BRK), Mw3.5(BRK). Felt, After GM−P.						
NEIC	MD 3.6 (GM). ML 3.6 (GS). Felt at Santa Cruz and in the Santa Cruz Mountains. Felt as far north as Atherton and in the San Francisco Bay area.						
ISC	**VII 14 14 54 35.4**±.38	**35.75N**±.031	**117.64W**±.044	**6**		**34**	**0-5**
NEIC	VII 14 14 54 35.5	35.77N	117.66W	6			¶97vii2155
NEIC	M_L3.2(GS), M_L3.0(PAS), After PAS.						
ISC	**VII 17 19 46 36.7**±.70	**36.90N**±.055	**121.72W**±.076	**21**±7.0	3.4b	**38**	**0-32**
NEIC	VII 17 19 46 37.2	36.97N	121.60W	7			¶97vii2636
EIDC	VII 17 19 46 39.4	36.6N	121.6W	0	3.7$_L$,3.5b		
NEIC	M_L4.1(BRK), Mw3.9(BRK). Felt, After GM−P.						
NEIC	MD 3.9 (GM). ML 3.9 (GS). Felt at Monterey, Redwood City, Salinas, San Benito, San Francisco, San Jose and Santa Cruz.						
ISC	**VII 22 11 21 42**±1.3	**36.3N**±.13	**120.5W**±.15	**17**±32		**11**	**0-3**
NEIC	VII 22 11 21 42.0	36.29N	120.41W	6			¶97vii3367
NEIC	M_L2.8(PAS), M_L2.8(GS), After PAS.						
ISC	**VII 24 23 43 30.5**±.76	**35.78N**±.047	**120.45W**±.065	**11**±5.4		**45**	**0-4**
NEIC	VII 24 23 43 30.8	35.84N	120.39W	7			¶97vii3741
NEIC	M_D3.6(GM), M_L3.5(GS), After GM−P.						
NEIC	ML 3.4 (BRK).						
ISC	**VII 26 12 46 39.4**±.56	**35.73N**±.031	**118.00W**±.042	**8**±5.6		**35**	**0-4**
NEIC	VII 26 12 46 39.7	35.75N	118.02W	4			¶97vii3966
NEIC	M_L3.4(PAS), M_L3.4(GS), After PAS.						
ISC	**VII 27 08 13 30.3**±.55	**35.63N**±.040	**116.37W**±.061	**6**		**26**	**1-3**
NEIC	VII 27 08 13 31.9	35.60N	116.48W	6			¶97vii4083
NEIC	M_L3.4(PAS), After PAS.						
ISC	**VII 30 11 30 38.8**±.60	**37.58N**±.048	**121.67W**±.054	**12**±6.2		**25**	**0-5**
NEIC	VII 30 11 30 38.9	37.57N	121.67W	7			¶97vii4575
NEIC	M_L3.3(BRK), M_L3.2(GS), After GM−P.						
NEIC	MD 3.1 (GM).						
ISC	**VIII 02 00 09 09.7**±.57	**37.61N**±.060	**119.04W**±.058	**8**		**14**	**0-3**
NEIC	VIII 02 00 09 08.4	37.64N	118.96W	8			¶97viii0137
NEIC	M_D3.0(GM), M_L3.0(GS), After GM−P.						
ISC	**VIII 02 00 13 18.4**±.80	**37.64N**±.069	**119.01W**±.084	**8**		**10**	**0-3**
NEIC	VIII 02 00 13 17.0	37.64N	118.96W	8			¶97viii0140
NEIC	M_D3.0(GM), M_L3.0(GS), After GM−P.						
ISC	**VIII 06 11 04 36.8**±.58	**36.92N**±.051	**121.56W**±.070	**23**±6.7		**36**	**0-6**
NEIC	VIII 06 11 04 37.3	36.98N	121.47W	7			¶97viii0785
NEIC	M_L4.0(BRK), Mw3.6(BRK). Felt, After GM−P.						
NEIC	MD 3.6 (GM). Felt at Gilroy.						
NEIC	**VIII 10 17 01 30.8**	**35.51N**	**120.12W**	**2**			**2-3**
NEIC	M_D2.8(GM), After GM−P.						¶97viii1425
ISC	**VIII 14 08 53 35.6**±.69	**37.72N**±.041	**122.56W**±.061	**13**±4.3		**26**	**0-3**
NEIC	VIII 14 08 53 35.6	37.74N	122.55W	2			¶97viii2032
NEIC	M_D3.0(GM), M_L3.0(BRK). Felt, After GM−P.						
NEIC	Felt in the Mission District of San Francisco.						
ISC	**VIII 16 02 52 43.7**±.73	**36.44N**±.055	**120.36W**±.087	**9**		**10**	**1-3**
NEIC	VIII 16 02 52 42.8	36.40N	120.35W	9			¶97viii2308
NEIC	M_D3.0(GM), M_L3.0(BRK), After GM−P.						

NEIC ML 2.8 (PAS).
NEIC VIII 16 11 31 00.3 36.42N 120.99W 7 1-2
NEIC MD2.9(GM), After GM−P. **¶97viii2359**
ISC VIII 20 04 11 45±1.2 **36.76N**±.070 **121.66W**±.090 **10**±8.2 **21 0-4**
NEIC VIII 20 04 11 46.3 36.84N 121.57W 7 **¶97viii2904**
NEIC MD3.1(GM), ML3.1(BRK), After GM−P.
NEIC ML 3.1 (GS).
ISC VIII 22 13 24 03.9±.63 **36.93N**±.060 **121.59W**±.092 **21**±8.7 **21 0-3**
NEIC VIII 22 13 24 04.2 36.98N 121.47W 7 **¶97viii3230**
NEIC MD3.0(GM), ML3.0(BRK), After GM−P.
NEIC ML 2.9 (GS).
ISC VIII 24 17 43 59.8±.33 **35.58N**±.024 **118.33W**±.042 **2 40 0-6**
NEIC VIII 24 17 43 59.9 35.59N 118.36W 2 **¶97viii3570**
NEIC ML3.4(GS), ML3.3(PAS), After PAS.
NEIC MD 3.3 (GM).
ISC VIII 31 00 24 13.6±.40 **37.75N**±.044 **122.09W**±.062 **17**±6.4 **25 0-3**
NEIC VIII 31 00 24 13.9 37.74N 122.09W 9 **¶97viii4558**
NEIC MD3.0(GM), ML3.0(BRK). Felt, After GM−P.
NEIC ML 3.0 (GS). Felt in the epicentral area.
ISC IX 01 00 36 21.1±.53 **35.43N**±.030 **118.41W**±.037 **10**±4.7 **39 0-7**
NEIC IX 01 00 36 21.6 35.45N 118.43W 6 **¶97ix0011**
NEIC ML3.5(GS), ML3.5(PAS), After PAS.
ISC IX 01 15 30 25.4±.78 **36.65N**±.087 **121.1W**±.11 **21**±13 **14 0-4**
NEIC IX 01 15 30 24.4 36.72N 121.01W 8 **¶97ix0130**
NEIC MD2.8(GM), After GM−P.
ISC IX 06 06 44 03±1.9 **36.7N**±.11 **121.6W**±.14 **1**±12 **10 0-3**
NEIC IX 06 06 44 03.8 36.82N 121.55W 6 **¶97ix0872**
NEIC MD2.8(GM), After GM−P.
ISC IX 06 13 03 45.6±.92 **36.41N**±.078 **121.06W**±.090 **10**±6.5 **22 0-4**
NEIC IX 06 13 03 45.9 36.44N 121.01W 7 **¶97ix0915**
NEIC MD3.2(GM), ML3.2(GS), After GM−P.
NEIC ML 3.1 (BRK).
ISC IX 06 16 23 49.2±.61 **35.83N**±.034 **117.80W**±.043 **3**±6.1 **27 0-3**
NEIC IX 06 16 23 49.6 35.86N 117.83W 10 **¶97ix0945**
NEIC ML3.3(GS), ML3.1(PAS), After PAS.
ISC IX 12 00 38 31±1.6 **36.8N**±.14 **121.6W**±.17 **10**±11 3.5b **10 0-26**
NEIC IX 12 00 38 31.0 36.88N 121.62W 7 **¶97ix1754**
NEIC MD2.9(GM), After GM−P.
ISC IX 12 16 20 45.2±.62 **36.14N**±.068 **120.38W**±.069 **33**±26 **24 0-7**
NEIC IX 12 16 20 44.5 36.23N 120.36W 11 **¶97ix1844**
NEIC ML3.6(BRK), MD3.5(GM), After GM−P.
ISC IX 12 17 08 22±1.2 **36.72N**±.069 **121.62W**±.086 **8**±8.3 **26 0-4**
NEIC IX 12 17 08 23.1 36.78N 121.50W 8 **¶97ix1850**
NEIC Mw3.6(BRK), ML3.6(BRK), After GM−P.
NEIC MD 3.4 (GM).
ISC IX 21 04 05 18.8±.42 **35.59N**±.032 **118.37W**±.042 **2 27 0-3**
NEIC IX 21 04 05 19.2 35.59N 118.36W 2 **¶97ix3040**
NEIC ML2.9(PAS), MD2.9(GM), After PAS.
NEIC ML 2.8 (GS).
ISC IX 24 04 41 33.3±.65 **37.98N**±.056 **122.36W**±.069 **10**±4.9 **18 0-2**
NEIC IX 24 04 41 33.7 37.97N 122.34W 6 **¶97ix3524**
NEIC ML2.6(BRK), MD2.5(GM). Felt, After GM−P.
NEIC Felt at El Cerrito, El Sobrante and Richmond.
ISC IX 26 19 58 02.2±.72 **37.26N**±.048 **121.70W**±.061 **11**±5.8 **25 0-4**
NEIC IX 26 19 58 02.4 37.29N 121.66W 7 **¶97ix4127**
NEIC ML3.2(BRK), MD3.1(GM), After GM−P.
ISC X 01 11 58 28.2±.53 **37.67N**±.052 **119.04W**±.055 **3 20 0-5**
NEIC X 01 11 58 27.3 37.65N 119.02W 3 **¶97x0080**
NEIC ML3.1(BRK), MD2.9(GM), After GM−P.
NEIC ML 2.9 (GS).
ISC X 05 23 28 14±1.1 **35.88N**±.080 **120.61W**±.090 **14**±7.0 **19 0-4**
NEIC X 05 23 28 14.8 35.97N 120.52W 9 **¶97x0949**
NEIC MD3.5(GM), ML3.4(BRK), After GM−P.
ISC X 06 18 29 40.2±.46 **35.80N**±.037 **116.79W**±.048 **6 33 1-6**
NEIC X 06 18 29 39.4 35.78N 116.65W 6 **¶97x1095**
NEIC ML3.4(PAS), After PAS.
ISC X 08 03 34 15.2±.72 **35.97N**±.042 **120.54W**±.051 **11**±6.3 **43 0-7**
NEIC X 08 03 34 15.2 35.97N 120.52W 9 **¶97x1349**
NEIC MD3.5(GM), ML3.5(BRK), After GM−P.
NEIC ML 3.5 (GS), 3.4 (PAS).
ISC X 09 04 11 41.1±.77 **35.08N**±.045 **119.03W**±.059 **13**±7.0 **21 0-2**
NEIC X 09 04 11 41.1 35.11N 119.04W 21 **¶97x1523**
NEIC ML2.7(PAS), After PAS.
ISC X 19 04 38 15.5±.47 **35.02N**±.032 **116.92W**±.049 **6 26 0-3**
NEIC X 19 04 38 16.9 34.99N 116.95W 6 **¶97x3287**
NEIC ML2.7(PAS), ML2.7(GS), After PAS.
ISC X 24 05 04 45±1.2 **36.45N**±.085 **121.2W**±.10 **12**±8.0 **17 0-4**
NEIC X 24 05 04 45.3 36.53N 121.11W 6 **¶97x4112**
NEIC MD3.2(GM), ML3.2(GS), After GM−P.
NEIC ML 3.1 (BRK).
ISC X 27 14 30 50.1±.70 **37.73N**±.048 **122.57W**±.070 **20**±6.2 **24 0-3**
NEIC X 27 14 30 50.6 37.73N 122.55W 10 **¶97x4618**
NEIC ML3.1(GS), MD2.9(GM). Felt, After GM−P.
NEIC ML 3.0 (BRK). Felt at Daly City, Noe Valley, Pacific Heights, San Bruno and the San Francisco Zoo.
ISC X 28 04 06 57.4±.56 **35.44N**±.030 **118.42W**±.044 **10**±5.3 **34 0-6**
NEIC X 28 04 06 57.9 35.45N 118.43W 7 **¶97x4698**
NEIC ML3.5(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ISC X 30 21 11 08.1±.40 **36.70N**±.039 **121.03W**±.045 **1 35 0-9**
NEIC X 30 21 11 08.5 36.71N 121.02W 1 **¶97x5089**
NEIC ML3.9(GS), Mw3.8(BRK), After GM−P.
NEIC MD 3.8 (GM). ML 3.8 (BRK).
ISC X 30 21 28 29.1±.96 **36.67N**±.095 **121.1W**±.15 **18**±20 **10 0-3**
NEIC X 30 21 28 28.4 36.71N 121.04W 1 **¶97x5091**
NEIC ML3.1(GS), MD2.8(GM), After GM−P.
ISC X 30 22 33 13.5±.84 **36.68N**±.074 **121.22W**±.090 **14**±9.2 **20 0-4**
NEIC X 30 22 33 13.4 36.71N 121.17W 8 **¶97x5097**
NEIC ML3.1(GS), MD3.0(GM), After GM−P.
NEIC ML 3.0 (BRK).
ISC X 30 23 09 42.1±.85 **36.18N**±.071 **119.65W**±.093 **6 8 1-3**
NEIC X 30 23 09 43.3 36.14N 119.59W 6 **¶97x5104**
NEIC ML2.9(GS), ML2.8(PAS), After PAS.
ISC X 30 23 36 37.9±.72 **35.73N**±.055 **117.63W**±.090 **4 9 1-3**
NEIC X 30 23 36 38.3 35.74N 117.63W 4 **¶97x5106**
NEIC ML2.8(PAS), After PAS.
ISC XI 07 16 32 26.2±.70 **35.74N**±.031 **117.58W**±.048 **1**±6.4 **30 0-3**
NEIC XI 07 16 32 26.9 35.75N 117.62W 5 **¶97xi1146**
NEIC ML3.0(PAS), After PAS.
ISC XI 14 06 53 28.4±.61 **35.65N**±.028 **118.22W**±.044 **11**±5.4 3.3b **43 0-34**
EIDC XI 14 06 53 26.5 35.6N 118.5W 0 3.3L,3.2b **¶97xi2253**
NEIC XI 14 06 53 28.9 35.66N 118.27W 12
NEIC MD3.7(GM), ML3.6(PAS). Felt, After PAS.
NEIC ML 3.6 (GS). Felt at Lake Isabella.
ISC XI 16 00 00 48±1.1 **36.77N**±.069 **121.63W**±.091 **10**±7.9 **24 0-4**
NEIC XI 16 00 00 49.1 36.82N 121.55W 7 **¶97xi2571**
NEIC ML3.5(BRK), MD3.4(GM). Felt, After GM−P.
NEIC ML 3.4 (GS). Felt in the epicentral area.
ISC XI 17 06 25 18.1±.64 **35.67N**±.033 **118.26W**±.044 **9**±6.1 **32 0-3**
NEIC XI 17 06 25 18.6 35.66N 118.27W 12 **¶97xi2750**
NEIC ML2.9(PAS), After PAS.
ISC XI 18 19 23 01.9±.71 **37.65N**±.075 **119.03W**±.072 **5 12 0-3**
NEIC XI 18 19 23 01.7 37.65N 119.03W 5 **¶97xi3046**
NEIC ML3.0(GS).
NEIC Small precursor about 5 seconds prior to this event.
ISC XI 19 21 05 17.7±.44 **37.60N**±.038 **122.03W**±.052 **14**±4.3 **30 0-5**
NEIC XI 19 21 05 17.9 37.62N 122.02W 5 **¶97xi3312**
NEIC MD3.3(GM), ML3.3(BRK). Felt, After GM−P.
NEIC ML 3.1 (GS). Felt at Fremont, Hayward and Pleasanton.
ISC XI 19 23 51 01.2±.75 **37.63N**±.083 **119.00W**±.072 **8 10 0-2**
NEIC XI 19 23 51 00.4 37.62N 118.97W 8 **¶97xi3341**
NEIC MD3.0(GM), After GM−P.
ISC XI 22 12 26 43.2±.40 **37.71N**±.034 **119.00W**±.045 **9 41 1-7**
NEIC XI 22 12 26 41.5 37.63N 118.93W 9 **¶97xi3873**
NEIC ML3.5(GS), ML3.3(GM), After GM−P.
ISC XI 22 18 37 10.5±.48 **37.71N**±.043 **119.02W**±.052 **6 38 1-5**
NEIC XI 22 18 37 09.2 37.63N 118.95W 6 **¶97xi3942**
NEIC ML3.4(GS), ML3.3(GM), After GM−P.
ISC XI 23 04 47 16.7±.75 **37.66N**±.079 **119.01W**±.073 **7 11 0-2**
NEIC XI 23 04 47 15.6 37.64N 118.97W 7 **¶97xi4036**
NEIC MD2.7(GM), ML2.7(GS), After GM−P.
ISC XI 24 00 30 42±1.0 **36.6N**±.11 **121.1W**±.15 **9**±13 **10 0-2**
NEIC XI 24 00 30 41.9 36.61N 121.08W 5 **¶97xi4232**
NEIC MD2.8(GM), ML2.8(GS).
ISC XI 29 09 03 09.3±.59 **36.88N**±.054 **118.18W**±.064 **3 14 1-4**
NEIC XI 29 09 03 10.1 36.93N 118.27W 3 **¶97xi5229**
NEIC MD3.1(GM), After GM−P.
ISC XI 30 21 26 05.0±.95 **37.67N**±.086 **119.0W**±.10 **8 11 1-5**
NEIC XI 30 21 26 03.2 37.63N 118.95W 8 **¶97xi5463**
NEIC MD3.3(GM), ML3.2(GS), After GM−P.
ISC XII 01 02 24 38±1.4 **37.7N**±.14 **119.0W**±.12 **6 7 1-2**
NEIC XII 01 02 24 38.4 37.64N 118.94W 6 **¶97xii0015**
NEIC MD2.8(GM), After GM−P.
ISC XII 04 02 27 46.7±.73 **37.59N**±.081 **119.00W**±.077 **4 10 0-2**
NEIC XII 04 02 27 46.2 37.63N 118.93W 4 **¶97xii0539**
NEIC MD2.9(GM), ML2.8(GS), After GM−P.
ISC XII 05 20 44 53.9±.74 **37.62N**±.085 **119.00W**±.075 **7 11 0-4**
NEIC XII 05 20 44 53.6 37.64N 118.97W 7 **¶97xii1086**
NEIC MD3.2(GM), After GM−P.
ISC XII 06 07 48 22±2.3 **37.61N**±.099 **119.0W**±.11 **0**±19 **8 0-2**
NEIC XII 06 07 48 22.3 37.63N 118.96W 7 **¶97xii1297**
NEIC MD2.8(GM), ML2.8(GS), After GM−P.
ISC XII 06 10 34 50.5±.43 **36.45N**±.042 **120.49W**±.047 **9 31 0-7**
NEIC XII 06 10 34 50.7 36.46N 120.45W 9 **¶97xii1362**
NEIC ML3.6(PAS), MD3.5(GM), After GM−P.
NEIC ML 3.5 (BRK), 3.5 (GS).
ISC XII 07 08 22 02±1.3 **36.8N**±.11 **121.6W**±.15 **9**±9.6 **10 0-2**
NEIC XII 07 08 22 02.1 36.85N 121.58W 5 **¶97xii1658**
NEIC MD3.0(GM), After GM−P.
ISC XII 09 14 30 57.7±.71 **36.32N**±.047 **120.55W**±.063 **21**±9.8 **30 0-3**
NEIC XII 09 14 30 57.1 36.32N 120.53W 12 **¶97xii2189**
NEIC ML3.3(PAS), ML3.2(GS), After GM−P.
NEIC ML 2.9 (GM), 3.0 (BRK), , 3.3 (PAS).
NEIC XII 10 05 14 36.9 36.38N 120.72W 11 1-2
NEIC ML2.9(PAS), MD2.8(GM), After GM−P. **¶97xii2295**
ISC XII 11 18 10 02.4±.47 **37.69N**±.048 **119.02W**±.047 **7 28 0-7**
NEIC XII 11 18 10 00.5 37.63N 118.95W 7 **¶97xii2615**
NEIC ML3.7(GS), MD3.6(GM), After GM−P.
NEIC ML 3.6 (BRK).
ISC XII 11 18 24 35±1.1 **37.7N**±.14 **119.1W**±.12 **6 5 1-2**
NEIC XII 11 18 24 34.3 37.63N 118.95W 7 **¶97xii2619**
NEIC MD2.9(GM), After GM−P.
ISC XII 12 11 36 15±1.0 **36.0N**±.17 **120.3W**±.11 **27**±19 **11 0-4**
NEIC XII 12 11 36 14.8 36.12N 120.30W 10 **¶97xii2741**
NEIC ML3.4(GM), ML3.4(PAS), After GM−P.
NEIC ML 3.4 (BRK).
ISC XII 13 11 51 16±1.3 **37.24N**±.080 **122.07W**±.089 **12**±9.1 **11 0-2**
NEIC XII 13 11 51 16.1 37.28N 122.05W 5 **¶97xii2938**
NEIC ML3.0(GM), ML3.0(BRK), After GM−P.
ISC XII 18 05 32 27.3±.65 **36.65N**±.060 **121.08W**±.076 **5 12 0-3**
NEIC XII 18 05 32 27.2 36.61N 121.15W 5 **¶97xii3714**
NEIC MD2.8(GM), ML2.7(GS), After GM−P.
ISC XII 18 08 35 55±1.7 **36.1N**±.17 **120.9W**±.21 **23**±14 **9 0-3**
NEIC XII 18 08 35 55.9 36.20N 120.76W 9 **¶97xii3741**
NEIC ML2.9(GM), ML2.8(PAS), After GM−P.
ISC XII 28 08 25 42.2±.88 **36.54N**±.086 **121.3W**±.11 **17**±9.3 **22 0-4**
NEIC XII 28 08 25 42.5 36.60N 121.20W 6 **¶97xii5424**
NEIC MD3.2(GM), ML3.1(BRK), After GM−P.
ISC XII 30 17 10 34.9±.89 **36.88N**±.072 **121.7W**±.11 **24**±7.7 **20 0-4**
NEIC XII 30 17 10 35.5 36.94N 121.68W 13 **¶97xii5763**
NEIC ML3.2(BRK), MD3.1(GM). Felt, After GM−P.
NEIC Felt at Carmel and Watsonville.
ISC XII 31 07 27 22±1.5 **36.8N**±.11 **121.6W**±.15 **2**±12 **9 0-3**
NEIC XII 31 07 27 22.7 36.80N 121.52W 8 **¶97xii5853**
NEIC MD2.8(GM), After GM−P.

(40) California-Nevada border region.

ISC VII 02 13 52 43.3±.48 **36.09N**±.033 **117.63W**±.061 **1 29 0-26**
NEIC VII 02 13 52 43.5 36.10N 117.67W 1 **¶97vii0251**
NEIC ML3.3(PAS), ML3.2(GS), After PAS.
ISC VII 08 18 31 00.7±.89 **37.67N**±.091 **118.94W**±.099 **7 8 0-2**
NEIC VII 08 18 30 59.9 37.65N 118.93W 7 **¶97vii1217**
NEIC MD2.8(GM), After GM−P.
ISC VII 08 19 20 18±1.0 **37.65N**±.092 **118.9W**±.11 **8 7 0-2**
NEIC VII 08 19 20 15.7 37.65N 118.93W 8 **¶97vii1223**
NEIC MD2.9(GM), ML2.8(GS), After GM−P.
ISC VII 08 21 35 40.6±.60 **37.70N**±.064 **118.93W**±.065 **7 12 0-3**
NEIC VII 08 21 35 39.9 37.65N 118.93W 7 **¶97vii1239**
NEIC MD3.1(GM), After GM−P.

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**10 07 14 20.0**±.64	**37.71N**±.065	**118.89W**±.066	**7**		**11**	**0-5**
NEIC	VII	10 07 14 19.4	37.65N	118.94W	7			¶97vii1468
NEIC		M_D3.1(GM), After GM−P.						
ISC	**VII**	**11 06 37 51.7**±.78	**38.82N**±.094	**119.65W**±.072	**5**		**11**	**1-4**
NEIC	VII	11 06 37 51.5	38.82N	119.64W	5			¶97vii1633
NEIC		$M_{D2.8}$(GM).						
ISC	**VII**	**11 06 59 29.3**±.76	**37.63N**±.082	**118.89W**±.074	**6**		**10**	**0-2**
NEIC	VII	11 06 59 28.7	37.60N	118.91W	6			¶97vii1637
NEIC		M_D3.0(GM), M_L2.9(GS), After GM−P.						
ISC	**VII**	**14 23 00 51**±1.2	**37.48N**±.072	**118.51W**±.085	**13**±10		**9**	**0-3**
NEIC	VII	14 23 00 50.9	37.51N	118.55W	11			¶97vii2217
NEIC		M_D3.0(GM), After GM−P.						
ISC	**VII**	**18 00 51 29.8**±.51	**37.62N**±.050	**118.86W**±.054	**6**		**17**	**0-3**
NEIC	VII	18 00 51 28.8	37.63N	118.87W	6			¶97vii2670
NEIC		M_D3.1(GM), M_L3.1(BRK), After GM−P.						
ISC	**VII**	**24 04 47 28.3**±.33	**36.09N**±.028	**117.81W**±.038	**2**	3.5b	**47**	**0-27**
EIDC	VII	24 04 47 25.7	36.0N	118.5W	0	3.3L		¶97vii3617
NEIC	VII	24 04 47 28.4	36.10N	117.88W	2			
NEIC		M_L3.5(GS), M_L3.4(PAS), After PAS.						
ISC	**VII**	**28 23 29 45.7**±.75	**37.66N**±.081	**118.97W**±.085	**6**		**8**	**0-2**
NEIC	VII	28 23 29 45.6	37.64N	118.94W	7			¶97vii4343
NEIC		M_D3.0(GM), After GM−P.						
ISC	**VII**	**30 01 31 21.2**±.47	**37.65N**±.049	**118.84W**±.051	**6**		**22**	**0-5**
NEIC	VII	30 01 31 20.6	37.63N	118.86W	6			¶97vii4515
NEIC		M_L3.3(GS), M_L3.3(BRK). Felt, After GM−P.						
NEIC		MD 3.2 (GM). Felt in the epicentral area.						
ISC	**VII**	**30 14 08 09.5**±.82	**37.66N**±.076	**118.92W**±.089	**7**		**7**	**0-2**
NEIC	VII	30 14 08 09.1	37.64N	118.92W	7			¶97vii4589
NEIC		M_D2.6(GM), After GM−P.						
NEIC	**VII**	**30 14 12 21.2**	**37.65N**	**118.92W**	**3**			**1-2**
NEIC		M_D2.9(GM), After GM−P.						¶97vii4590
ISC	**VII**	**30 19 00 55.7**±.69	**37.67N**±.065	**118.89W**±.074	**8**		**10**	**0-3**
NEIC	VII	30 19 00 55.0	37.65N	118.91W	8			¶97vii4622
NEIC		M_D2.9(GM), After GM−P.						
ISC	**VIII**	**01 14 38 42**±1.5	**37.67N**±.064	**118.82W**±.077	**2**±15		**11**	**0-2**
NEIC	VIII	01 14 38 42.0	37.63N	118.86W	5			¶97viii0078
NEIC		M_D2.9(GM), M_L2.9(GS), After GM−P.						
ISC	**VIII**	**02 12 02 37.6**±.68	**37.69N**±.065	**118.92W**±.073	**8**		**10**	**0-2**
NEIC	VIII	02 12 02 36.8	37.64N	118.95W	8			¶97viii0211
NEIC		M_D2.8(GM), M_L2.8(GS), After GM−P.						
ISC	**VIII**	**04 10 27 28.7**±.76	**37.54N**±.063	**118.46W**±.093	**13**		**10**	**0-5**
NEIC	VIII	04 10 27 27.7	37.52N	118.48W	13			¶97viii0492
NEIC		M_D3.1(GM), M_L3.0(GS), After GM−P.						
ISC	**VIII**	**07 10 05 42**±1.0	**37.42N**±.062	**118.53W**±.065	**10**±8.0		**16**	**0-5**
NEIC	VIII	07 10 05 41.2	37.41N	118.56W	14			¶97viii0923
NEIC		M_D2.9(GM), After GM−P.						
ISC	**VIII**	**08 11 10 57.5**±.62	**37.14N**±.065	**118.22W**±.066	**11**		**12**	**0-5**
NEIC	VIII	08 11 10 56.7	37.14N	118.25W	11			¶97viii1105
NEIC		M_D3.1(GM), M_L2.9(GS), After GM−P.						
ISC	**VIII**	**16 23 39 27.0**±.70	**38.08N**±.077	**118.60W**±.083	**14**		**14**	**0-5**
NEIC	VIII	16 23 39 25.3	38.07N	118.81W	14			¶97viii2437
NEIC		M_D3.2(GM), M_L3.2(BRK), After GM−P.						
NEIC	**VIII**	**18 06 28 14.4**	**37.39N**	**118.69W**	**13**			**1-2**
NEIC		M_D2.8(GM), After GM−P.						¶97viii2629
ISC	**VIII**	**20 14 37 47.0**±.46	**38.77N**±.037	**119.54W**±.053	**0**		**23**	**0-4**
NEIC	VIII	20 14 37 48.9	38.76N	119.62W	0			¶97viii2974
NEIC		M_D3.4(GM), M_L3.4(BRK), After GM−P.						
NEIC		ML 3.3 (GS).						
ISC	**VIII**	**21 15 35 33**±1.7	**38.59N**±.038	**118.51W**±.032	**4**±14	3.3b	**51**	**0-24**
NEIC	VIII	21 15 35 33.6	38.59N	118.50W	10			¶97viii3113
EIDC	VIII	21 15 35 38.7	38.8N	118.5W	0	3.7L,3.3b		
NEIC		M_D4.2(REN), Mw3.9(BRK)						
NEIC		MD 4.1 (GM). ML 4.2 (BRK), 4.0 (GS). Felt at Hawthorne, Nevada.						
ISC	**VIII**	**21 16 11 24**±1.3	**38.55N**±.026	**118.50W**±.026	**5**±10	**4.1b**	**87**	**0-118**
EIDC	VIII	21 16 11 23.9	38.4N	118.6W	0	3.7L,4.0b		¶97viii3119
NEIC	VIII	21 16 11 24.5	38.57N	118.50W	10	4.2b		
NEIC		M_L4.9(BRK), Mw4.5(BRK)						
NEIC		MD 4.6 (REN), 4.5 (GM). ML 4.6 (GS). Felt strongly at Hawthorne, Nevada. Felt at Dyer and in the Reno, Nevada area. Also felt in the Lake Tahoe area.						
ISC	**VIII**	**21 16 36 47**±1.2	**38.56N**±.028	**118.51W**±.027	**9**±8.9	**4.1b,3.5s**	**83**	**0-118**
EIDC	VIII	21 16 36 46.0	38.3N	118.6W	0	4.1b,3.6s		¶97viii3123
NEIC	VIII	21 16 36 47.2	38.56N	118.49W	10	4.1b		
NEIC		M_L4.8(BRK), Mw4.4(BRK)						
NEIC		ML 4.6 (GS). MD 4.5 (REN), 4.4 (GM). Felt strongly at Hawthorne, Nevada. Felt at Dyer and in the Reno, Nevada area. Also felt in the Lake Tahoe area.						
ISC	**VIII**	**23 12 33 09.8**±.48	**37.45N**±.045	**118.83W**±.053	**15**		**25**	**0-6**
NEIC	VIII	23 12 33 09.3	37.50N	118.85W	15			¶97viii3402
NEIC		M_D3.3(GM), M_L3.3(BRK), After GM−P.						
NEIC		ML 3.3 (GS).						
ISC	**IX**	**06 22 45 07**±2.0	**37.67N**±.069	**118.87W**±.085	**3**±18		**9**	**0-2**
NEIC	IX	06 22 45 06.8	37.66N	118.85W	6			¶97ix0978
NEIC		M_D2.9(GM), After GM−P.						
ISC	**IX**	**08 11 30 00**±1.9	**37.65N**±.059	**118.80W**±.067	**0**±17		**13**	**0-4**
NEIC	IX	08 11 30 00.2	37.58N	118.83W	6			¶97ix1212
NEIC		M_D2.9(GM), After GM−P.						
ISC	**IX**	**10 08 32 28.3**±.72	**37.61N**±.084	**118.91W**±.072	**9**		**9**	**0-2**
NEIC	IX	10 08 32 27.5	37.57N	118.86W	9			¶97ix1500
NEIC		M_D2.8(GM), M_L3.0(BRK), After GM−P.						
ISC	**IX**	**12 13 36 55.4**±.34	**37.00N**±.036	**116.18W**±.042	**10**		**52**	**0-20**
EIDC	IX	12 13 36 53.6	36.9N	116.4W	0	3.6L		¶97ix1820
NEIC	IX	12 13 36 54.1	36.86N	116.25W	10			
NEIC		$M_{D4.0}$(REN), $M_{L3.9}$(GS).						
ISC	**IX**	**21 16 14 25**±1.9	**37.64N**±.075	**118.87W**±.096	**7**±17		**8**	**0-2**
NEIC	IX	21 16 14 25.5	37.65N	118.84W	7			¶97ix3124
NEIC		M_D3.2(GM), M_L3.0(GS), After GM−P.						
NEIC		Double event.						
ISC	**IX**	**21 20 49 31.9**±.72	**37.68N**±.068	**118.82W**±.083	**6**		**9**	**0-3**
NEIC	IX	21 20 49 31.4	37.65N	118.84W	6			¶97ix3159
NEIC		M_D2.9(GM), M_L2.8(GS), After GM−P.						
ISC	**IX**	**21 20 50 30.4**±.72	**37.69N**±.068	**118.84W**±.082	**7**		**9**	**0-3**
NEIC	IX	21 20 50 30.0	37.65N	118.85W	7			¶97ix3160
NEIC		M_D3.0(GM), M_L3.0(GS), After GM−P.						
ISC	**IX**	**27 01 53 01.3**±.79	**37.61N**±.070	**118.92W**±.073	**6**		**16**	**0-3**
NEIC	IX	27 01 53 00.3	37.63N	118.94W	6			¶97ix4217
NEIC		M_L3.5(BRK), M_D3.4(GM), After GM−P.						
ISC	**IX**	**27 05 00 21**±1.1	**37.7N**±.11	**118.9W**±.10	**6**		**8**	**0-3**
NEIC	IX	27 05 00 20.3	37.63N	118.94W	6			¶97ix4250
NEIC		M_D2.8(GM), M_L2.8(GS), After GM−P.						
ISC	**IX**	**27 09 11 22.0**±.64	**37.64N**±.057	**118.91W**±.063	**6**		**15**	**0-3**
NEIC	IX	27 09 11 21.4	37.63N	118.94W	6			¶97ix4312
NEIC		M_L3.1(BRK), M_D2.9(GM), After GM−P.						
ISC	**IX**	**28 20 07 49.8**±.89	**37.83N**±.084	**118.81W**±.076	**9**		**9**	**1-5**
NEIC	IX	28 20 07 50.8	37.63N	118.93W	9			¶97ix4750
NEIC		M_D2.7(GM), After GM−P.						
ISC	**IX**	**28 23 19 17.8**±.94	**37.64N**±.083	**118.92W**±.079	**6**		**12**	**0-3**
NEIC	IX	28 23 19 17.3	37.63N	118.94W	6			¶97ix4788
NEIC		M_L3.2(BRK), M_D2.8(GM), After GM−P.						
ISC	**IX**	**30 00 53 42.9**±.67	**37.72N**±.060	**118.94W**±.070	**6**		**15**	**0-3**
NEIC	IX	30 00 53 42.2	37.63N	118.94W	6			¶97ix5083
NEIC		M_D2.8(GM), After GM−P.						
ISC	**X**	**02 06 51 46.0**±.62	**37.49N**±.064	**118.81W**±.072	**7**		**11**	**1-3**
NEIC	X	02 06 51 45.7	37.46N	118.84W	7			¶97x0225
NEIC		M_D3.0(GM), M_L3.0(GS), After GM−P.						
ISC	**X**	**08 01 23 26.5**±.51	**37.70N**±.044	**118.91W**±.056	**6**		**30**	**0-3**
NEIC	X	08 01 23 25.4	37.63N	118.94W	6			¶97x1334
NEIC		M_L3.0(GS), M_D2.9(GM), After GM−P.						
ISC	**X**	**08 01 24 30.4**±.59	**37.65N**±.058	**118.90W**±.056	**6**		**15**	**0-3**
NEIC	X	08 01 24 29.7	37.63N	118.94W	6			¶97x1335
NEIC		M_L3.2(GS), M_D3.1(GM), After GM−P.						
NEIC		ML 3.1 (BRK). First and larger of two events about 37 seconds apart.						
ISC	**X**	**10 11 41 34.6**±.48	**37.61N**±.047	**118.95W**±.050	**6**		**22**	**0-4**
NEIC	X	10 11 41 33.7	37.63N	118.95W	6			¶97x1746
NEIC		M_D3.3(GM), M_L3.3(BRK), After GM−P.						
NEIC		ML 3.1 (GS).						
ISC	**X**	**20 03 17 33**±1.8	**37.0N**±.11	**115.89W**±.082	**7**±15		**11**	**0-5**
NEIC	X	20 03 17 32.9	36.99N	115.88W	5			¶97x3425
NEIC		$M_{L2.3}$(GS).						
ISC	**X**	**23 05 30 15.1**±.35	**37.98N**±.038	**118.72W**±.038	**0**		**34**	**1-9**
NEIC	X	23 05 30 14.2	37.97N	118.69W	0			¶97x3929
NEIC		M_L3.6(GS), M_D3.3(GM), After GM−P.						
NEIC		ML 3.6 (BRK).						
ISC	**X**	**26 06 46 46.4**±.73	**37.67N**±.083	**118.96W**±.071	**9**		**11**	**0-2**
NEIC	X	26 06 46 45.2	37.64N	118.92W	9			¶97x4427
NEIC		M_D3.1(GM), After GM−P.						
ISC	**X**	**26 06 56 47.1**±.74	**37.69N**±.084	**118.98W**±.071	**8**		**11**	**0-2**
NEIC	X	26 06 56 46.6	37.63N	118.93W	8			¶97x4429
NEIC		M_D3.0(GM), After GM−P.						
ISC	**X**	**26 09 12 35.7**±.80	**38.32N**±.079	**118.37W**±.079	**5**		**9**	**1-3**
NEIC	X	26 09 12 36.5	38.27N	118.38W	5			¶97x4440
NEIC		M_D2.9(GM), After GM−P.						
ISC	**X**	**26 22 35 30.0**±.83	**37.64N**±.085	**118.95W**±.082	**8**		**9**	**0-2**
NEIC	X	26 22 35 29.2	37.64N	118.92W	8			¶97x4529
NEIC		M_D2.8(GM), After GM−P.						
ISC	**X**	**28 11 05 08.9**±.31	**37.70N**±.030	**118.88W**±.035	**5**		**52**	**1-8**
NEIC	X	28 11 05 07.8	37.63N	118.86W	5			¶97x4748
NEIC		M_L3.6(BRK), M_D3.4(GM), After GM−P.						
NEIC		ML 3.6 (GS).						
ISC	**X**	**28 19 43 21.3**±.82	**37.68N**±.083	**118.84W**±.082	**5**		**9**	**0-3**
NEIC	X	28 19 43 20.4	37.65N	118.88W	5			¶97x4806
NEIC		M_D2.8(GM), After GM−P.						
ISC	**X**	**28 23 30 06.0**±.80	**37.66N**±.078	**118.87W**±.090	**5**		**9**	**0-3**
NEIC	X	28 23 30 04.9	37.65N	118.88W	5			¶97x4831
NEIC		M_D2.8(GM), After GM−P.						
ISC	**X**	**29 10 00 27.5**±.35	**37.64N**±.033	**118.44W**±.037	**12**		**57**	**0-9**
NEIC	X	29 10 00 25.9	37.57N	118.41W	12			¶97x4891
NEIC		M_D4.0(GM), Mw3.7(BRK). Felt, After GM−P.						
NEIC		ML 3.8 (BRK), 3.9 (GS). Felt in the epicentral area.						
ISC	**X**	**30 03 36 41**±1.2	**37.87N**±.044	**118.23W**±.055	**6**±11		**25**	**1-5**
NEIC	X	30 03 36 40.9	37.86N	118.20W	2			¶97x4985
NEIC		M_L3.3(BRK), M_D3.0(GM), After GM−P.						
NEIC		ML 3.2 (GS).						
ISC	**X**	**30 04 16 31.1**±.90	**37.68N**±.089	**118.94W**±.092	**10**		**8**	**1-2**
NEIC	X	30 04 16 29.9	37.64N	118.95W	10			¶97x4991
NEIC		M_D2.9(GM), After GM−P.						
ISC	**X**	**30 06 35 58.2**±.43	**37.91N**±.041	**118.12W**±.047	**1**		**30**	**1-6**
NEIC	X	30 06 35 58.5	37.85N	118.23W	1			¶97x5006
NEIC		M_L3.5(BRK), M_L3.4(GM), After GM−P.						
NEIC		ML 3.5 (GS).						
ISC	**X**	**30 10 15 07.0**±.80	**37.66N**±.084	**118.98W**±.079	**9**		**9**	**0-2**
NEIC	X	30 10 15 06.0	37.64N	118.94W	9			¶97x5022
NEIC		M_D2.8(GM), After GM−P.						
ISC	**XI**	**01 22 54 09.4**±.76	**37.63N**±.082	**118.88W**±.074	**5**		**10**	**0-2**
NEIC	XI	01 22 54 08.6	37.60N	118.88W	5			¶97xi0155
NEIC		M_D3.0(GM), After GM−P.						
ISC	**XI**	**02 08 34 22.1**±.26	**37.84N**±.029	**118.20W**±.029	**1**		**59**	**1-15**
EIDC	XI	02 08 34 20.9	37.9N	118.7W	0	3.5L		¶97xi0220
NEIC	XI	02 08 34 22.3	37.83N	118.24W	1			
NEIC		M_L4.3(GM), Mw4.2(BRK), After GM−P.						
NEIC		ML 4.3 (BRK).						
ISC	**XI**	**02 08 38 54**±1.1	**37.88N**±.055	**118.22W**±.077	**4**±11		**11**	**1-4**
NEIC	XI	02 08 38 53.1	37.85N	118.22W	0			¶97xi0221
NEIC		M_L2.9(GS), M_D2.7(GM), After GM−P.						
ISC	**XI**	**02 08 51 54.4**±.80	**37.81N**±.020	**118.18W**±.023	**5**±5.7	**4.8b,4.7s**	**207**	**1-150**
HRVD	XI	02 08 51 53.2±1.4	37.55N±.11	119.19W±.14	15			¶97xi0223
BJI	XI	02 08 51 54.2	37.80N	118.10W	5	4.9b,5.3s		
NEIC	XI	02 08 51 54.2	37.80N	118.14W	5	4.9b,4.6s		
EIDC	XI	02 08 51 55.6	37.9N	118.1W	0	4.5b,4.7s		
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c24; Mantle waves: s3,c3; Half duration: 1$\hat{=}$1. Moment tensor: Scale 10^{17}Nm; M_{rr}0.20±.06; $M_{\theta\theta}$−1.14±.09; $M_{\phi\phi}$0.94±.09; $M_{r\theta}$0.09±.31; $M_{r\phi}$−0.66±.26; $M_{\theta\phi}$0.35±.09. Principal Axes: T 1.35,Plg29°,Azm97°; N −0.12,Plg59°,Azm297°; P −1.23,Plg9°,Azm192°. Best double couple: M_O1.3×10^{17}Nm, NP1:ϕ_S238°,δ63°,λ15°. NP2:ϕ_S141°,δ76°,λ152°.						
NEIC		Mw5.4(HRV). Felt.						
NEIC		Mw 5.2 (BRK). Felt at Fallon, Tonopah, Yerington and in the Reno-Carson City area, Nevada. Felt as far as Fresno, California.						
ISC	**XI**	**02 09 01 25.7**±.71	**37.80N**±.071	**118.22W**±.077	**6**		**9**	**1-4**
NEIC	XI	02 09 01 24.6	37.85N	118.22W	6			¶97xi0225
NEIC		M_L3.0(GS), M_D2.8(GM), After GM−P.						
ISC	**XI**	**02 09 14 54.1**±.32	**37.83N**±.034	**118.17W**±.035	**0**		**43**	**1-9**
NEIC	XI	02 09 14 53.8	37.83N	118.23W	0			¶97xi0227
NEIC		Mw3.9(BRK), After GM−P.						
NEIC		ML 3.7 (GM), 3.7 (GS). M_O=8.0×10^{14}Nm (BRK).						
ISC	**XI**	**02 09 20 37.5**±.80	**37.85N**±.072	**118.20W**±.083	**1**		**8**	**1-4**
NEIC	XI	02 09 20 36.9	37.85N	118.23W	1			¶97xi0229
NEIC		M_L3.0(GS), M_D2.8(GM), After GM−P.						
ISC	**XI**	**02 09 21 22**±1.2	**37.86N**±.089	**118.2W**±.15	**5**		**4**	**1-2**
NEIC	XI	02 09 21 22.2	37.85N	118.22W	5			¶97xi0230
ISC		Poorly determined						
NEIC		M_L3.1(GS), M_D2.7(GM), After GM−P.						

ISC XI 02 09 33 52.1±.76 **37.86N**±.066 **118.18W**±.078 **7** **8 1-4**
NEIC XI 02 09 33 52.2 37.83N 118.24W 7 **¶97xi0232**
NEIC M_L2.8(GS), M_D2.6(GM), After GM−P.
ISC XI 02 09 44 07±1.1 **37.87N**±.059 **118.20W**±.060 **5**±10 **13 1-5**
NEIC XI 02 09 44 06.9 37.84N 118.22W 2 **¶97xi0233**
NEIC M_L3.3(GS), M_D2.9(GM), After GM−P.
ISC XI 02 09 52 05±1.1 **37.87N**±.056 **118.21W**±.065 **2**±11 **16 1-5**
NEIC XI 02 09 52 05.3 37.83N 118.26W 2 **¶97xi0234**
NEIC M_L3.3(GM), M_L3.3(BRK), After GM−P.
NEIC ML 3.2 (GS).
ISC XI 02 10 44 09.6±.74 **37.83N**±.073 **118.22W**±.077 **2** **9 1-5**
NEIC XI 02 10 44 08.9 37.86N 118.21W 2 **¶97xi0238**
NEIC M_L2.8(GS), M_L2.8(GM), After GM−P.
ISC XI 02 11 02 01±1.5 **37.88N**±.080 **118.3W**±.12 **5**±16 **6 1-2**
NEIC XI 02 11 02 02.2 37.82N 118.25W 7 **¶97xi0244**
NEIC M_L2.9(GS), M_D2.6(GM), After GM−P.
ISC XI 02 11 09 29.1±.44 **37.84N**±.046 **118.16W**±.048 **5** **28 1-6**
NEIC XI 02 11 09 28.9 37.84N 118.16W 5 **¶97xi0245**
NEIC $M_{L3.6}$(GS), $M_{L3.4}$(BRK).
ISC XI 02 11 15 12±1.3 **37.87N**±.078 **118.27W**±.099 **2**±15 **7 1-3**
NEIC XI 02 11 15 12.3 37.87N 118.27W 5 **¶97xi0246**
NEIC $M_{L2.9}$(GS).
ISC XI 02 11 18 42±1.2 **37.85N**±.077 **118.23W**±.094 **3**±14 **7 1-3**
NEIC XI 02 11 18 42.5 37.84N 118.24W 2 **¶97xi0248**
NEIC M_L2.8(GS), M_D2.5(GM), After GM−P.
ISC XI 02 11 55 45.1±.66 **37.86N**±.057 **118.15W**±.067 **2** **13 1-5**
NEIC XI 02 11 55 45.0 37.85N 118.22W 2 **¶97xi0254**
NEIC M_L3.2(GS), M_L2.8(GM), After GM−P.
ISC XI 02 12 02 23.7±.74 **37.89N**±.063 **118.29W**±.072 **1** **9 1-5**
NEIC XI 02 12 02 24.3 37.84N 118.24W 1 **¶97xi0256**
NEIC M_L2.8(GS), M_D2.7(GM), After GM−P.
ISC XI 02 12 05 31±1.5 **37.87N**±.072 **118.3W**±.12 **4**±14 **7 1-3**
NEIC XI 02 12 05 30.8 37.83N 118.22W 8 **¶97xi0257**
NEIC M_L2.8(GS), M_D2.4(GM), After GM−P.
ISC XI 02 12 56 05.3±.46 **37.87N**±.048 **118.18W**±.050 **8** **26 1-6**
NEIC XI 02 12 56 05.7 37.81N 118.27W 8 **¶97xi0262**
NEIC M_L3.4(BRK), M_L3.3(GM), After GM−P.
NEIC ML 3.4 (GS).
ISC XI 02 13 27 21.7±.73 **37.86N**±.063 **118.25W**±.077 **1** **9 1-5**
NEIC XI 02 13 27 21.4 37.84N 118.23W 1 **¶97xi0266**
NEIC M_L3.1(GS), After GM−P.
ISC XI 02 13 36 05±1.1 **37.86N**±.050 **118.16W**±.059 **1**±11 **19 1-5**
NEIC XI 02 13 36 04.4 37.85N 118.22W 1 **¶97xi0268**
NEIC M_L3.3(GS), M_L3.2(GM), After GM−P.
NEIC ML 3.1 (BRK).
ISC XI 02 14 10 43±1.3 **37.85N**±.068 **118.24W**±.087 **2**±13 **8 1-3**
NEIC XI 02 14 10 42.6 37.85N 118.22W 2 **¶97xi0274**
NEIC M_L2.8(GS), M_D2.4(GM), After GM−P.
ISC XI 02 15 03 04.1±.21 **37.85N**±.023 **118.19W**±.025 **5** **4.0b,**3.6s **95 1-150**
NEIC XI 02 15 03 04.2 37.85N 118.16W 5 4.3b **¶97xi0285**
EIDC XI 02 15 03 06.0 38.0N 118.0W 0 4.0b,4.0s
NEIC M_L4.8(GM), Mw4.6(BRK).
NEIC ML 4.8 (BRK).
ISC XI 02 15 14 55.6±.74 **37.90N**±.069 **118.16W**±.083 **5** **8 1-3**
NEIC XI 02 15 14 55.0 37.88N 118.19W 5 **¶97xi0289**
NEIC $M_{L2.9}$(GS), $M_{D2.5}$(GM).
ISC XI 02 15 28 16±1.1 **37.88N**±.053 **118.21W**±.060 **4**±11 **21 1-6**
NEIC XI 02 15 28 16.2 37.83N 118.24W 4 **¶97xi0291**
NEIC M_L3.5(GS), M_D3.1(GM), After GM−P.
NEIC ML 3.3 (BRK).
ISC XI 02 15 39 33±1.4 **37.86N**±.071 **118.24W**±.094 **4**±14 **7 1-2**
NEIC XI 02 15 39 33.2 37.84N 118.24W 4 **¶97xi0294**
NEIC M_L2.9(GS), M_D2.4(GM), After GM−P.
ISC XI 02 16 03 47.1±.89 **37.89N**±.068 **118.3W**±.11 **7** **7 1-3**
NEIC XI 02 16 03 46.8 37.86N 118.23W 7 **¶97xi0298**
NEIC M_L2.8(GS), M_D2.6(GM), After GM−P.
ISC XI 02 16 22 53.2±.23 **37.85N**±.025 **118.18W**±.027 **6** **3.6b,**3.2s **80 1-71**
NEIC XI 02 16 22 53.2 37.84N 118.27W 6 **¶97xi0299**
EIDC XI 02 16 22 54.5 37.9N 118.0W 0 3.6b,3.3s
NEIC M_L4.3(GM), Mw4.2(BRK), After GM−P.
NEIC ML 4.2 (BRK), 4.2 (GS).
ISC XI 02 16 36 09±1.3 **37.86N**±.067 **118.26W**±.088 **1**±14 **8 1-3**
NEIC XI 02 16 36 09.1 37.84N 118.23W 4 **¶97xi0300**
NEIC M_L3.0(GS), M_D2.7(GM), After GM−P.
ISC XI 02 16 56 03.3±.69 **37.88N**±.060 **118.21W**±.074 **1** **9 1-4**
NEIC XI 02 16 56 04.0 37.83N 118.27W 1 **¶97xi0302**
NEIC M_L2.8(GS), M_D2.4(GM), After GM−P.
ISC XI 02 17 22 46.6±.79 **37.87N**±.066 **118.22W**±.088 **5** **8 1-5**
NEIC XI 02 17 22 46.4 37.85N 118.20W 5 **¶97xi0303**
NEIC M_L2.9(GS), M_D2.5(GM), After GM−P.
ISC XI 02 17 44 06.0±.76 **37.88N**±.066 **118.22W**±.078 **8** **8 1-4**
NEIC XI 02 17 44 06.8 37.81N 118.27W 8 **¶97xi0305**
NEIC M_L3.0(GS), M_D2.5(GM), After GM−P.
ISC XI 02 17 49 50.7±.53 **37.88N**±.050 **118.13W**±.056 **7** **20 1-5**
NEIC XI 02 17 49 49.9 37.86N 118.17W 7 **¶97xi0307**
NEIC M_L3.5(GS), M_D2.8(GM), After GM−P.
NEIC ML 3.1 (BRK).
ISC XI 02 17 54 05.3±.31 **37.86N**±.037 **118.18W**±.033 **2** **44 1-15**
NEIC XI 02 17 54 04.8 37.85N 118.22W 2 **¶97xi0308**
EIDC XI 02 17 54 05.8 37.9N 118.2W 0 3.2L
NEIC Mw3.8(BRK), M_L3.8(GM), After GM−P.
NEIC ML 3.8 (BRK), 3.7 (GS).
ISC XI 02 18 20 37.7±.79 **37.86N**±.066 **118.19W**±.083 **5** **8 1-4**
NEIC XI 02 18 20 37.6 37.86N 118.19W 5 **¶97xi0313**
NEIC $M_{L3.0}$(GS).
ISC XI 02 18 24 45±1.3 **37.85N**±.073 **118.19W**±.092 **2**±14 **7 1-2**
NEIC XI 02 18 24 44.9 37.85N 118.21W 2 **¶97xi0314**
NEIC M_D2.9(GM), M_L2.8(GS), After GM−P.
NEIC Double event.
ISC XI 02 18 34 33.9±.63 **37.87N**±.054 **118.17W**±.072 **1** **13 1-5**
NEIC XI 02 18 34 33.8 37.85N 118.21W 1 **¶97xi0316**
NEIC M_L3.1(GS), M_D2.9(GM), After GM−P.
ISC XI 02 19 01 40.9±.57 **37.88N**±.050 **118.18W**±.065 **1** **16 1-6**
NEIC XI 02 19 01 40.8 37.85N 118.21W 1 **¶97xi0320**
NEIC M_L3.4(GS), M_L3.3(GM), After GM−P.
ISC XI 02 19 04 45.5±.53 **37.86N**±.050 **118.15W**±.059 **2** **18 1-6**
NEIC XI 02 19 04 45.9 37.87N 118.21W 2 **¶97xi0321**
NEIC M_L3.5(GS), M_L3.4(GM), After GM−P.
ISC XI 02 19 09 11±1.5 **37.88N**±.080 **118.2W**±.12 **5**±16 **6 1-2**
NEIC XI 02 19 09 10.7 37.88N 118.23W 5 **¶97xi0322**
NEIC $M_{L2.8}$(GS).

ISC XI 02 19 18 36.9±.64 **37.88N**±.057 **118.17W**±.068 **3** **13 1-6**
NEIC XI 02 19 18 37.3 37.84N 118.23W 3 **¶97xi0323**
NEIC M_L3.2(GS), M_D2.8(GM), After GM−P.
ISC XI 02 19 19 59.4±.87 **37.82N**±.068 **118.3W**±.11 **1** **7 1-3**
NEIC XI 02 19 19 59.7 37.86N 118.21W 1 **¶97xi0324**
NEIC M_L3.1(GS), M_D2.6(GM), After GM−P.
ISC XI 02 19 35 53.4±.40 **37.86N**±.040 **118.16W**±.044 **2** **29 1-6**
NEIC XI 02 19 35 54.6 37.82N 118.27W 2 **¶97xi0325**
NEIC M_L3.6(BRK), M_L3.5(GM), After GM−P.
NEIC ML 3.6 (GS).
ISC XI 02 19 49 39±1.2 **37.86N**±.064 **118.20W**±.088 **3**±12 **8 1-3**
NEIC XI 02 19 49 38.5 37.85N 118.20W 2 **¶97xi0327**
NEIC M_L2.9(GS), M_D2.7(GM), After GM−P.
ISC XI 02 19 52 34.8±.72 **37.87N**±.059 **118.24W**±.081 **0** **10 1-5**
NEIC XI 02 19 52 34.5 37.87N 118.22W 0 **¶97xi0328**
NEIC M_L2.9(GS), M_D2.8(GM), After GM−P.
ISC XI 02 20 10 40±1.2 **37.84N**±.060 **118.23W**±.081 **3**±12 **11 1-5**
NEIC XI 02 20 10 39.9 37.84N 118.23W 6 **¶97xi0329**
NEIC M_L3.2(GS), M_D2.7(GM), After GM−P.
ISC XI 02 20 44 55.2±.69 **37.83N**±.056 **118.22W**±.076 **1** **11 1-5**
NEIC XI 02 20 44 55.6 37.87N 118.23W 1 **¶97xi0332**
NEIC M_L2.9(GS), M_D2.7(GM), After GM−P.
ISC XI 02 20 53 24.9±.64 **37.85N**±.055 **118.25W**±.075 **6** **14 1-5**
NEIC XI 02 20 53 25.1 37.84N 118.23W 6 **¶97xi0334**
NEIC M_L3.4(GS), M_D2.8(GM), After GM−P.
ISC XI 02 21 02 53±1.1 **37.88N**±.076 **118.27W**±.084 **1**±15 **7 1-2**
NEIC XI 02 21 02 53.7 37.79N 118.23W 1 **¶97xi0337**
NEIC M_L2.9(GS), M_D2.5(GM), After GM−P.
ISC XI 02 21 21 49.9±.52 **37.88N**±.048 **118.15W**±.058 **1** **19 1-6**
NEIC XI 02 21 21 49.6 37.87N 118.17W 1 **¶97xi0338**
NEIC M_L3.5(GS), M_L3.3(GM), After GM−P.
NEIC Double event.
ISC XI 02 22 29 45.4±.38 **37.86N**±.040 **118.20W**±.040 **1** **33 1-7**
NEIC XI 02 22 29 45.5 37.85N 118.23W 1 **¶97xi0347**
NEIC Mw3.8(BRK), M_L3.6(BRK), After GM−P.
NEIC ML 3.5 (GM), , 3.6 (GS).
ISC XI 02 22 58 05.0±.72 **37.84N**±.064 **118.24W**±.075 **3** **11 1-5**
NEIC XI 02 22 58 04.9 37.85N 118.23W 3 **¶97xi0352**
NEIC M_L3.1(GS), M_D2.7(GM), After GM−P.
ISC XI 03 00 05 39.0±.51 **37.89N**±.053 **118.18W**±.054 **1** **18 1-6**
NEIC XI 03 00 05 38.9 37.86N 118.20W 1 **¶97xi0358**
NEIC M_L3.4(GS), M_L3.3(GM), After GM−P.
ISC XI 03 01 08 12±1.4 **37.88N**±.071 **118.23W**±.094 **7**±14 **7 1-2**
NEIC XI 03 01 08 12.0 37.88N 118.23W 5 **¶97xi0370**
NEIC $M_{L2.8}$(GS).
ISC XI 03 02 14 50.1±.82 **37.82N**±.083 **118.19W**±.079 **0** **8 1-4**
NEIC XI 03 02 14 49.4 37.86N 118.21W 0 **¶97xi0376**
NEIC M_L2.8(GS), M_D2.4(GM), After GM−P.
ISC XI 03 03 10 55.3±.52 **37.85N**±.049 **118.13W**±.057 **1** **16 1-5**
NEIC XI 03 03 10 55.4 37.83N 118.23W 1 **¶97xi0386**
NEIC M_L3.0(GS), M_D2.7(GM), After GM−P.
ISC XI 03 03 19 54±1.4 **37.85N**±.068 **118.24W**±.085 **5**±13 **9 1-5**
NEIC XI 03 03 19 54.3 37.81N 118.26W 3 **¶97xi0392**
NEIC M_L2.9(GS), M_D2.5(GM), After GM−P.
NEIC XI 03 06 21 15.9 37.80N 118.29W 10 1-2
NEIC M_L3.2(GS), M_D2.6(GM), After GM−P. **¶97xi0420**
NEIC XI 03 11 13 51.4 37.87N 118.19W 2 1-2
NEIC M_L2.9(GS), M_D2.6(GM), After GM−P. **¶97xi0454**
NEIC XI 03 22 58 49.2 37.80N 118.29W 5 1-4
NEIC M_L2.9(GS), M_D2.6(GM), After GM−P. **¶97xi0532**
ISC XI 04 01 01 29.5±.92 **37.71N**±.081 **118.83W**±.091 **5** **8 0-5**
NEIC XI 04 01 01 29.1 37.65N 118.86W 5 **¶97xi0549**
NEIC M_D3.0(GM), After GM−P.
ISC XI 04 13 02 44.8±.57 **37.65N**±.060 **118.83W**±.061 **5** **15 0-5**
NEIC XI 04 13 02 44.0 37.65N 118.86W 5 **¶97xi0640**
NEIC M_L3.5(GS), M_D3.4(GM), After GM−P.
ISC XI 04 13 14 03.3±.67 **37.68N**±.063 **118.86W**±.070 **4** **12 0-3**
NEIC XI 04 13 14 03.0 37.65N 118.86W 4 **¶97xi0641**
NEIC M_D3.5(GM), M_L3.2(GS), After GM−P.
NEIC ML 3.0 (BRK).
ISC XI 04 13 14 32±1.7 **37.68N**±.081 **118.86W**±.098 **1**±18 **9 0-2**
NEIC XI 04 13 14 32.1 37.64N 118.87W 7 **¶97xi0643**
NEIC M_D3.4(GM), M_L3.2(GS), After GM−P.
NEIC ML 3.0 (BRK).
ISC XI 05 00 19 03.8±.88 **37.7N**±.11 **118.98W**±.099 **7** **9 0-3**
NEIC XI 05 00 19 03.3 37.63N 118.98W 7 **¶97xi0709**
NEIC M_D3.0(GM), After GM−P.
ISC XI 05 05 08 08±1.5 **37.85N**±.070 **118.2W**±.11 **3**±14 **8 1-4**
NEIC XI 05 05 08 08.8 37.83N 118.24W 3 **¶97xi0734**
NEIC M_L2.9(GS), M_D2.5(GM), After GM−P.
ISC XI 05 08 52 12.8±.74 **37.85N**±.064 **118.15W**±.078 **0** **11 1-5**
NEIC XI 05 08 52 13.0 37.83N 118.22W 0 **¶97xi0758**
NEIC M_L3.0(GS), M_D2.8(GM), After GM−P.
ISC XI 05 10 05 35.1±.54 **37.87N**±.051 **118.08W**±.056 **3** **19 1-6**
NEIC XI 05 10 05 36.7 37.81N 118.27W 3 **¶97xi0767**
NEIC M_L3.3(GS), M_L3.2(GM), After GM−P.
ISC XI 05 23 00 08±1.0 **37.20N**±.030 **117.85W**±.027 **5**±7.9 **4.2b** **83 1-150**
NEIC XI 05 23 00 07.1 37.19N 117.85W 5 4.3b **¶97xi0877**
EIDC XI 05 23 00 08.8 37.2N 117.9W 8 4.1b,3.8L
NEIC M_L4.5(BRK), Mw4.3(BRK).
NEIC ML 4.2 (GS).
ISC XI 06 10 01 57±1.0 **37.87N**±.036 **118.17W**±.035 **4**±8.6 **42 1-8**
NEIC XI 06 10 01 56.8 37.88N 118.17W 5 **¶97xi0957**
NEIC $M_{L3.6}$(GS), $M_{L3.6}$(BRK).
ISC XI 07 08 58 28.3±.44 **37.88N**±.046 **118.20W**±.049 **2** **27 1-6**
NEIC XI 07 08 58 28.2 37.86N 118.22W 2 **¶97xi1103**
NEIC M_L3.5(GS), M_D3.3(GM), After GM−P.
ISC XI 07 12 54 43±2.2 **37.64N**±.088 **118.91W**±.087 **1**±19 **10 0-3**
NEIC XI 07 12 54 43.0 37.62N 118.89W 4 **¶97xi1126**
NEIC M_D2.9(GM), M_L2.8(GS), After GM−P.
ISC XI 07 15 17 50.1±.53 **37.62N**±.058 **118.91W**±.055 **4** **16 0-5**
NEIC XI 07 15 17 49.8 37.62N 118.89W 4 **¶97xi1139**
NEIC M_D3.3(GM), M_L3.3(GS), After GM−P.
ISC XI 08 10 05 25±1.1 **37.7N**±.17 **118.9W**±.14 **4** **6 0-3**
NEIC XI 08 10 05 25.0 37.65N 118.88W 4 **¶97xi1253**
NEIC M_D2.8(GM), After GM−P.
ISC XI 08 10 25 58.0±.61 **38.36N**±.061 **119.24W**±.055 **18** **21 1-5**
NEIC XI 08 10 25 56.1 38.35N 119.28W 18 **¶97xi1260**
NEIC M_D3.4(GM), M_L3.4(BRK), After GM−P.
NEIC ML 3.3 (GS).

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XI**	**08 11 45 33**±1.8	**38.3N**±.18	**119.3W**±.20	**20**		**5**	**1-3**
NEIC	XI	08 11 45 31.6	38.31N	119.29W	20		**¶97xi1274**	
NEIC		M_D2.8(GM), After GM−P.						
ISC	**XI**	**10 01 35 44.3**±.32	**37.88N**±.037	**118.19W**±.034	**1**		**43**	**1-7**
NEIC	XI	10 01 35 43.7	37.86N	118.21W	1		**¶97xi1541**	
NEIC		M_L3.8(BRK), M_D3.7(GM), After GM−P.						
NEIC		ML 3.8 (GS).						
ISC	**XI**	**10 04 26 37.3**±.54	**37.86N**±.049	**118.24W**±.061	**0**		**16**	**1-5**
NEIC	XI	10 04 26 37.0	37.84N	118.23W	0		**¶97xi1557**	
NEIC		M_L3.2(GS), M_D3.0(GM), After GM−P.						
ISC	**XI**	**10 05 04 02**±1.1	**37.83N**±.058	**118.21W**±.072	**3**±11		**12**	**1-5**
NEIC	XI	10 05 04 01.6	37.83N	118.20W	5		**¶97xi1562**	
NEIC		M_L2.9(GS).						
ISC	**XI**	**10 05 40 01.8**±.52	**37.86N**±.049	**118.17W**±.057	**5**		**18**	**1-6**
NEIC	XI	10 05 40 01.8	37.85N	118.18W	5		**¶97xi1566**	
NEIC		M_L3.3(GS).						
ISC	**XI**	**10 16 02 52.2**±.53	**37.56N**±.054	**118.84W**±.053	**4**		**20**	**0-4**
NEIC	XI	10 16 02 50.8	37.65N	118.86W	4		**¶97xi1634**	
NEIC		M_L3.1(BRK), M_D3.0(GM), After GM−P.						
NEIC		ML 3.0 (GS).						
ISC	**XI**	**10 16 36 59.1**±.47	**37.85N**±.048	**118.17W**±.049	**5**		**24**	**1-6**
NEIC	XI	10 16 36 58.4	37.86N	118.16W	5		**¶97xi1639**	
NEIC		M_L3.4(GS), M_L3.3(BRK).						
ISC	**XI**	**10 23 05 25**±1.5	**37.58N**±.071	**118.88W**±.058	**2**±12		**17**	**0-3**
NEIC	XI	10 23 05 24.9	37.63N	118.87W	9		**¶97xi1689**	
NEIC		M_L3.3(BRK), M_D3.0(GM), After GM−P.						
NEIC		ML 3.0 (GS).						
ISC	**XI**	**11 06 56 23.7**±.76	**37.60N**±.078	**118.90W**±.087	**8**		**9**	**0-3**
NEIC	XI	11 06 56 22.8	37.63N	118.87W	8		**¶97xi1752**	
NEIC		M_D2.8(GM), After GM−P.						
ISC	**XI**	**11 20 33 53.0**±.47	**37.85N**±.048	**118.15W**±.052	**5**		**24**	**1-6**
NEIC	XI	11 20 33 52.5	37.89N	118.15W	5		**¶97xi1866**	
NEIC		M_L3.5(GS), M_L3.5(BRK).						
ISC	**XI**	**11 20 48 07**±1.2	**37.90N**±.054	**118.20W**±.072	**6**±11		**17**	**1-5**
NEIC	XI	11 20 48 07.1	37.90N	118.21W	5		**¶97xi1870**	
NEIC		M_L3.3(BRK), M_L3.2(GS).						
ISC	**XI**	**13 12 35 07.3**±.59	**37.69N**±.055	**118.91W**±.059	**5**		**16**	**0-3**
NEIC	XI	13 12 35 07.4	37.62N	118.95W	5		**¶97xi2135**	
NEIC		M_L3.2(BRK), M_L3.1(GS).						
NEIC		ML 3.1 (GM).						
ISC	**XI**	**13 12 50 31.0**±.57	**37.66N**±.060	**118.91W**±.061	**6**		**16**	**0-4**
NEIC	XI	13 12 50 29.7	37.65N	118.90W	6		**¶97xi2137**	
NEIC		M_D3.2(GM), After GM−P.						
ISC	**XI**	**13 13 26 59**±2.2	**37.61N**±.079	**118.95W**±.077	**0**±19		**11**	**0-3**
NEIC	XI	13 13 26 58.7	37.65N	118.90W	6		**¶97xi2143**	
NEIC		M_D3.1(GM), M_L3.0(GS), After GM−P.						
ISC	**XI**	**13 19 42 23.0**±.30	**37.63N**±.034	**118.93W**±.032	**6**	4.0b	**44**	**0-32**
NEIC	XI	13 19 42 22.0	37.65N	118.90W	6		**¶97xi2183**	
EIDC	XI	13 19 42 29.2	38.1N	118.8W	0	3.3$_L$,4.0b		
NEIC		M_L4.1(BRK), Mw3.9(BRK), After GM−P.						
NEIC		MD 3.8 (GM). ML 4.0 (GS).						
ISC	**XI**	**13 20 41 38**±2.1	**37.61N**±.092	**118.96W**±.085	**3**±18		**9**	**0-2**
NEIC	XI	13 20 41 38.1	37.65N	118.89W	5		**¶97xi2191**	
NEIC		M_L3.0(GS), M_D2.8(GM), After GM−P.						
ISC	**XI**	**13 23 23 03**±1.5	**37.65N**±.086	**118.92W**±.070	**3**±13		**11**	**0-2**
NEIC	XI	13 23 23 03.5	37.64N	118.89W	6		**¶97xi2203**	
NEIC		M_L3.1(GS), M_D3.0(GM), After GM−P.						
ISC	**XI**	**14 02 49 48**±2.1	**37.63N**±.087	**118.93W**±.078	**2**±18		**10**	**0-2**
NEIC	XI	14 02 49 48.7	37.65N	118.88W	4		**¶97xi2227**	
NEIC		M_D2.9(GM), M_L2.8(GS), After GM−P.						
ISC	**XI**	**15 06 00 19.9**±.17	**37.18N**±.020	**117.81W**±.023	**5**	**4.7b,4.4s**	**179**	**1-150**
EIDC	XI	15 06 00 19.7	37.2N	117.8W	0	4.5b,4.1$_L$	**¶97xi2427**	
NEIC	XI	15 06 00 19.8	37.18N	117.79W	5	4.7b,4.6s		
NEIC		M_L5.3(BRK), Mw5.0(BRK). Felt.						
NEIC		Felt in the Bishop area and at Mariposa, California. Also felt at Beatty and Hawthorne, Nevada.						
ISC	**XI**	**15 06 42 29.3**±.30	**37.26N**±.029	**117.86W**±.038	**5**		**55**	**1-20**
EIDC	XI	15 06 42 20.3	37.1N	119.3W	0	3.4$_L$,3.7b	**¶97xi2435**	
NEIC	XI	15 06 42 28.9	37.25N	117.86W	5			
NEIC		M_L3.8(GS).						
ISC	**XI**	**15 12 56 03.7**±.78	**37.65N**±.087	**118.89W**±.081	**3**		**9**	**0-2**
NEIC	XI	15 12 56 03.3	37.65N	118.86W	3		**¶97xi2477**	
NEIC		M_L2.9(GS), M_D2.8(GM), After GM−P.						
ISC	**XI**	**15 17 20 40.6**±.38	**37.62N**±.040	**118.99W**±.040	**8**		**29**	**0-5**
NEIC	XI	15 17 20 39.5	37.64N	118.99W	8		**¶97xi2511**	
NEIC		M_L3.5(BRK), M_D3.4(GM). Felt, After GM−P.						
NEIC		ML 3.4 (GS). Felt at Mammoth Lakes, California.						
ISC	**XI**	**16 18 12 20.0**±.77	**37.66N**±.082	**118.90W**±.074	**3**		**10**	**0-2**
NEIC	XI	16 18 12 19.5	37.66N	118.87W	3		**¶97xi2679**	
NEIC		M_L3.1(GS), M_D2.9(GM), After GM−P.						
ISC	**XI**	**17 12 27 48.4**±.99	**37.62N**±.092	**118.93W**±.098	**7**		**7**	**0-2**
NEIC	XI	17 12 27 46.9	37.64N	118.93W	7		**¶97xi2795**	
NEIC		M_D2.8(GM), After GM−P.						
ISC	**XI**	**17 13 25 30.7**±.83	**37.64N**±.090	**118.96W**±.091	**7**		**10**	**0-3**
NEIC	XI	17 13 25 30.2	37.64N	118.94W	7		**¶97xi2804**	
NEIC		M_D2.8(GM), After GM−P.						
ISC	**XI**	**17 15 22 09.3**±.49	**38.02N**±.051	**119.20W**±.050	**5**		**21**	**1-6**
NEIC	XI	17 15 22 08.3	38.11N	119.17W	5		**¶97xi2819**	
NEIC		M_L3.2(BRK), M_L3.1(GS).						
ISC	**XI**	**18 01 33 35.2**±.75	**37.65N**±.083	**118.99W**±.072	**6**		**10**	**0-2**
NEIC	XI	18 01 33 34.9	37.65N	118.94W	6		**¶97xi2892**	
NEIC		M_D2.8(GM), M_L2.8(GS), After GM−P.						
ISC	**XI**	**18 01 38 19**±1.0	**37.7N**±.11	**118.94W**±.085	**8**		**7**	**0-2**
NEIC	XI	18 01 38 18.8	37.64N	118.94W	8		**¶97xi2895**	
NEIC		M_D2.8(GM), After GM−P.						
NEIC		Multiple event.						
ISC	**XI**	**18 01 56 06.9**±.42	**37.60N**±.044	**118.92W**±.043	**8**		**31**	**0-6**
NEIC	XI	18 01 56 06.0	37.64N	118.94W	8		**¶97xi2897**	
NEIC		M_L3.5(BRK), M_D3.4(GM). Felt, After GM−P.						
NEIC		ML 3.4 (GS). Felt at Mammoth Lakes, California.						
ISC	**XI**	**19 17 21 20.8**±.64	**37.66N**±.065	**118.94W**±.066	**7**		**11**	**0-2**
NEIC	XI	19 17 21 19.9	37.64N	118.94W	7		**¶97xi3269**	
NEIC		M_D3.0(GM), M_L3.0(GS). Felt, After GM−P.						
NEIC		Felt at Mammoth Lakes, California.						
ISC	**XI**	**22 03 21 14.4**±.75	**37.66N**±.067	**118.94W**±.081	**8**		**9**	**0-2**
NEIC	XI	22 03 21 14.1	37.63N	118.92W	8		**¶97xi3793**	
NEIC		M_D2.8(GM), M_L2.7(GS), After GM−P.						
ISC	**XI**	**22 07 13 55**±2.3	**37.7N**±.11	**118.9W**±.11	**1**±19		**9**	**0-2**
NEIC	XI	22 07 13 55.8	37.65N	118.87W	6		**¶97xi3828**	
NEIC		M_L2.9(GS), M_D2.8(GM), After GM−P.						
ISC	**XI**	**22 12 06 57.5**±.21	**37.63N**±.021	**118.96W**±.026	**8**	**4.1b,**3.6s	**103**	**0-117**
EIDC	XI	22 12 06 55.8	37.2N	119.1W	0	4.0b,3.7s	**¶97xi3869**	
NEIC	XI	22 12 06 55.9	37.63N	118.92W	8	4.4b		
NEIC		M_L4.6(BRK), Mw4.5(BRK). Felt, After GM−P.						
NEIC		ML 4.5 (GM). Felt at Mammoth Lakes and Big Creek, California.						
ISC	**XI**	**22 12 20 25.6**±.64	**37.64N**±.068	**118.93W**±.064	**6**		**11**	**0-4**
NEIC	XI	22 12 20 25.3	37.63N	118.93W	6		**¶97xi3871**	
NEIC		M_L3.3(GS), After GM−P.						
NEIC		Two events about 8.5 seconds apart. Location is for the first event; magnitude is for the larger second event.						
ISC	**XI**	**22 12 59 07.3**±.87	**37.64N**±.086	**118.94W**±.094	**7**		**10**	**0-3**
NEIC	XI	22 12 59 06.9	37.63N	118.93W	7		**¶97xi3881**	
NEIC		M_D2.8(GM), M_L2.8(GS), After GM−P.						
ISC	**XI**	**22 15 34 48.1**±.62	**37.67N**±.060	**118.87W**±.065	**7**		**13**	**0-5**
NEIC	XI	22 15 34 47.9	37.63N	118.93W	7		**¶97xi3903**	
NEIC		M_L3.1(GS), M_L3.0(GM), After GM−P.						
ISC	**XI**	**22 15 58 17**±1.0	**37.65N**±.099	**118.94W**±.096	**6**		**9**	**0-2**
NEIC	XI	22 15 58 16.6	37.63N	118.92W	6		**¶97xi3907**	
NEIC		M_L2.8(GS), M_D2.7(GM), After GM−P.						
ISC	**XI**	**22 16 09 09**±1.3	**37.6N**±.11	**118.9W**±.13	**8**		**9**	**0-3**
NEIC	XI	22 16 09 08.6	37.63N	118.92W	8		**¶97xi3909**	
NEIC		M_L3.1(GS), M_L2.9(GM), After GM−P.						
ISC	**XI**	**22 17 09 50.2**±.61	**37.66N**±.059	**118.87W**±.063	**7**		**13**	**0-4**
NEIC	XI	22 17 09 50.8	37.64N	118.93W	7		**¶97xi3915**	
NEIC		M_L2.9(GS), M_L2.7(GM), After GM−P.						
ISC	**XI**	**22 17 10 41.3**±.67	**37.67N**±.074	**118.91W**±.065	**10**		**11**	**1-4**
NEIC	XI	22 17 10 41.4	37.63N	118.94W	10		**¶97xi3916**	
NEIC		M_L3.2(GS), M_L3.0(GM), After GM−P.						
ISC	**XI**	**22 17 12 55**±2.4	**37.69N**±.087	**119.0W**±.11	**19**±36		**11**	**1-3**
NEIC	XI	22 17 12 53.5	37.65N	118.94W	0		**¶97xi3917**	
NEIC		M_L3.4(GS), M_L3.3(GM), After GM−P.						
NEIC		Double event.						
ISC	**XI**	**22 17 20 36.9**±.19	**37.64N**±.020	**118.99W**±.024	**7**	**4.5b,4.3s**	**124**	**0-150**
BJI	XI	22 17 20 35.1	37.60N	118.90W	7	5.6b,5.2s	**¶97xi3918**	
NEIC	XI	22 17 20 35.1	37.64N	118.93W	7	4.7b,4.3s		
EIDC	XI	22 17 20 37.1	37.5N	118.8W	0	4.3b,4.3s		
NEIC		M_L4.9(BRK), Mw4.8(BRK). Felt, After GM−P.						
NEIC		ML 4.8 (GM). Felt at Mammoth Lakes, California. Mo=2.1×10^{16}Nm (BRK).						
ISC	**XI**	**22 17 24 03**±1.0	**37.64N**±.094	**119.0W**±.10	**1**		**5**	**0-2**
NEIC	XI	22 17 24 02.0	37.63N	118.92W	1		**¶97xi3919**	
NEIC		M_L3.3(GS), M_L3.2(GM), After GM−P.						
ISC	**XI**	**22 17 33 45.4**±.96	**37.64N**±.087	**119.0W**±.11	**3**		**9**	**1-3**
NEIC	XI	22 17 33 45.1	37.64N	118.95W	3		**¶97xi3922**	
NEIC		M_L3.0(GM), M_L3.0(GS), After GM−P.						
ISC	**XI**	**22 17 39 36.9**±.71	**37.67N**±.067	**118.92W**±.074	**12**		**14**	**1-5**
NEIC	XI	22 17 39 35.5	37.63N	118.94W	12		**¶97xi3923**	
NEIC		M_D3.4(GM), M_L3.4(GS), After GM−P.						
ISC	**XI**	**22 17 44 33.9**±.81	**37.67N**±.072	**118.93W**±.089	**7**		**8**	**0-2**
NEIC	XI	22 17 44 33.6	37.64N	118.94W	7		**¶97xi3926**	
NEIC		M_L2.8(GS), M_L2.7(GM), After GM−P.						
ISC	**XI**	**22 18 00 38.2**±.47	**37.64N**±.049	**118.97W**±.045	**8**		**26**	**0-5**
NEIC	XI	22 18 00 37.4	37.64N	118.95W	8		**¶97xi3931**	
NEIC		M_L3.5(GM), M_L3.5(BRK), After GM−P.						
NEIC		ML 3.5 (GS).						
ISC	**XI**	**22 18 03 46**±1.9	**37.68N**±.070	**118.93W**±.085	**5**±18		**10**	**0-2**
NEIC	XI	22 18 03 46.9	37.64N	118.95W	8		**¶97xi3932**	
NEIC		M_L3.0(GS), M_D2.9(GM), After GM−P.						
ISC	**XI**	**22 18 05 02**±1.8	**37.64N**±.070	**118.94W**±.086	**8**±16		**10**	**0-2**
NEIC	XI	22 18 05 02.2	37.63N	118.95W	8		**¶97xi3934**	
NEIC		M_L3.2(GS), M_L3.1(GM), After GM−P.						
ISC	**XI**	**22 18 05 55.9**±.70	**37.68N**±.066	**118.92W**±.069	**8**		**10**	**0-4**
NEIC	XI	22 18 05 56.1	37.63N	118.93W	8		**¶97xi3935**	
NEIC		M_L3.2(GS), M_D3.0(GM), After GM−P.						
ISC	**XI**	**22 18 11 01.0**±.20	**37.63N**±.021	**118.99W**±.025	**8**	**4.0b,3.7s**	**100**	**0-150**
NEIC	XI	22 18 10 59.4	37.64N	118.95W	8	4.2b,3.7s	**¶97xi3936**	
EIDC	XI	22 18 11 01.6	37.5N	118.6W	0	4.0b,3.9s		
NEIC		M_L4.8(BRK), Mw4.5(BRK). Felt, After GM−P.						
NEIC		ML 4.7 (GM). Felt at Mammoth Lakes, California.						
ISC	**XI**	**22 18 35 55.9**±.40	**37.70N**±.037	**118.95W**±.046	**9**		**35**	**0-70**
NEIC	XI	22 18 35 54.4	37.64N	118.93W	9		**¶97xi3941**	
NEIC		M_L3.3(GS), M_L3.2(GM), After GM−P.						
ISC	**XI**	**22 18 55 57.6**±.66	**37.70N**±.062	**118.94W**±.071	**6**		**12**	**0-3**
NEIC	XI	22 18 55 56.8	37.64N	118.95W	6		**¶97xi3944**	
NEIC		M_D2.9(GM), M_L2.9(GS), After GM−P.						
ISC	**XI**	**22 19 02 06.4**±.39	**37.70N**±.035	**118.99W**±.044	**7**		**44**	**0-7**
NEIC	XI	22 19 02 04.5	37.63N	118.92W	7		**¶97xi3945**	
NEIC		M_D3.6(GM), M_L3.6(GS), After GM−P.						
ISC	**XI**	**22 19 35 54.3**±.61	**37.69N**±.060	**118.92W**±.062	**8**		**14**	**0-4**
NEIC	XI	22 19 35 53.6	37.64N	118.96W	8		**¶97xi3949**	
NEIC		M_L2.9(GS), M_L2.8(GM), After GM−P.						
ISC	**XI**	**22 22 40 34.8**±.42	**37.75N**±.036	**118.96W**±.046	**8**		**41**	**0-5**
NEIC	XI	22 22 40 34.1	37.64N	118.93W	8		**¶97xi3974**	
NEIC		M_L3.2(GS), M_D3.1(GM), After GM−P.						
ISC	**XI**	**22 23 16 48.8**±.65	**37.65N**±.069	**118.92W**±.064	**6**		**16**	**0-5**
NEIC	XI	22 23 16 48.2	37.63N	118.94W	6		**¶97xi3981**	
NEIC		M_D3.0(GM), M_L3.0(GS), After GM−P.						
ISC	**XI**	**23 01 02 51.8**±.48	**37.65N**±.047	**118.90W**±.055	**5**		**22**	**0-7**
NEIC	XI	23 01 02 51.0	37.64N	118.93W	5		**¶97xi3993**	
NEIC		M_L3.3(GS), M_L3.2(GM), After GM−P.						
ISC	**XI**	**23 02 08 30.6**±.57	**37.65N**±.054	**118.93W**±.064	**9**		**14**	**0-3**
NEIC	XI	23 02 08 29.6	37.64N	118.93W	9		**¶97xi4001**	
NEIC		M_D2.8(GM), M_L2.8(GS), After GM−P.						
ISC	**XI**	**23 02 19 51.6**±.32	**37.69N**±.031	**118.99W**±.035	**7**		**58**	**0-7**
NEIC	XI	23 02 19 50.3	37.64N	118.95W	7		**¶97xi4005**	
NEIC		M_L3.7(GM), M_L3.7(BRK), After GM−P.						
NEIC		ML 3.7 (GS).						
ISC	**XI**	**23 03 39 25.7**±.68	**37.67N**±.071	**118.94W**±.073	**7**		**12**	**0-3**
NEIC	XI	23 03 39 25.2	37.63N	118.96W	7		**¶97xi4016**	
NEIC		M_D3.0(GM), M_L2.9(GS), After GM−P.						
ISC	**XI**	**23 04 04 03.9**±.68	**37.68N**±.066	**118.94W**±.072	**8**		**10**	**0-2**
NEIC	XI	23 04 04 03.3	37.64N	118.96W	8		**¶97xi4023**	
NEIC		M_D3.0(GM), M_L2.9(GS), After GM−P.						
ISC	**XI**	**23 05 06 43.2**±.54	**37.66N**±.052	**118.93W**±.061	**7**		**20**	**0-6**
NEIC	XI	23 05 06 42.4	37.63N	118.94W	7		**¶97xi4040**	
NEIC		M_D3.1(GM), M_L3.0(GS), After GM−P.						
ISC	**XI**	**23 06 57 04.1**±.31	**37.67N**±.030	**118.95W**±.035	**7**		**61**	**0-7**
NEIC	XI	23 06 57 03.1	37.63N	118.95W	7		**¶97xi4057**	
NEIC		M_L3.9(BRK), M_L3.8(GM), After GM−P.						
NEIC		ML 3.7 (GS).						

ISC XI 23 08 14 12.5±.63 **37.67N**±.061 **118.96W**±.065 **8** **12 0-2**
NEIC XI 23 08 14 12.2 37.64N 118.95W 8 **¶97xi4072**
NEIC M_L3.1(GS), M_D2.9(GM), After GM−P.
ISC XI 23 10 43 22.4±.66 **37.63N**±.071 **118.96W**±.071 **7** **12 0-3**
NEIC XI 23 10 43 21.9 37.63N 118.94W 7 **¶97xi4098**
NEIC M_L3.0(GS), M_D2.9(GM), After GM−P.
ISC XI 24 00 44 35.9±.35 **37.62N**±.040 **118.98W**±.036 **5** **36 0-7**
NEIC XI 24 00 44 35.7 37.63N 118.98W 5 **¶97xi4235**
NEIC M_D3.7(GM), M_L3.7(GS).
NEIC ML 3.7 (BRK).
ISC XI 24 07 48 01.6±.51 **37.63N**±.053 **118.89W**±.054 **5** **18 0-4**
NEIC XI 24 07 48 01.2 37.63N 118.90W 5 **¶97xi4278**
NEIC M_L3.3(GS), M_L3.2(GM), After GM−P.
ISC XI 24 07 48 37±1.5 **37.6N**±.14 **119.0W**±.13 **5** **4 0-1**
NEIC XI 24 07 48 36.8 37.60N 118.98W 5 **¶97xi4279**
ISC Poorly determined
NEIC M_L3.3(GS), Poor solution.
ISC XI 24 12 47 19.0±.31 **37.61N**±.035 **118.96W**±.034 **8** 3.8b **43 0-32**
NEIC XI 24 12 47 18.0 37.63N 118.94W 8 **¶97xi4319**
EIDC XI 24 12 47 20.7 37.7N 118.5W 0 3.1$_L$,3.6b
NEIC M_L3.8(GM), M_L3.8(BRK), After GM−P.
NEIC ML 3.7 (GS).
ISC XI 25 13 17 23±2.3 **37.61N**±.085 **118.94W**±.096 **0**±20 **9 0-2**
NEIC XI 25 13 17 22.9 37.63N 118.89W 8 **¶97xi4520**
NEIC M_D2.8(GM), M_L2.7(GS), After GM−P.
ISC XI 25 16 07 20±1.3 **37.66N**±.049 **118.91W**±.066 **1**±12 **17 0-5**
NEIC XI 25 16 07 20.5 37.64N 118.92W 7 **¶97xi4545**
NEIC M_L3.2(GS), M_L3.0(GM), After GM−P.
ISC XI 25 20 52 28±2.0 **37.65N**±.082 **118.95W**±.084 **4**±17 **10 0-2**
NEIC XI 25 20 52 28.6 37.64N 118.94W 7 **¶97xi4575**
NEIC M_D2.9(GM), M_L2.9(GS), After GM−P.
ISC XI 26 13 28 07.4±.57 **37.87N**±.051 **118.19W**±.059 **5** **20 1-5**
NEIC XI 26 13 28 07.1 37.87N 118.20W 5 **¶97xi4690**
NEIC M_L3.4(GS), M_L3.4(BRK).
ISC XI 26 18 08 39.7±.71 **37.87N**±.061 **118.18W**±.076 **2** **10 1-4**
NEIC XI 26 18 08 38.9 37.84N 118.22W 2 **¶97xi4729**
NEIC M_D2.8(GM), After GM−P.
ISC XI 27 04 04 53.2±.56 **38.70N**±.058 **119.81W**±.055 **0** **14 1-6**
NEIC XI 27 04 04 55.1 38.69N 119.87W 0 **¶97xi4790**
NEIC M_L3.4(GS), M_D3.3(GM), After GM−P.
ISC XI 27 07 58 11.4±.60 **37.66N**±.060 **118.97W**±.067 **6** **12 1-3**
NEIC XI 27 07 58 11.1 37.63N 118.94W 6 **¶97xi4829**
NEIC M_L3.2(GS), M_D3.1(GM), After GM−P.
ISC XI 29 07 44 40.4±.61 **37.89N**±.054 **118.24W**±.069 **5** **16 1-6**
NEIC XI 29 07 44 40.3 37.88N 118.24W 5 **¶97xi5219**
NEIC M_L3.3(GS).
ISC XI 29 12 02 04.9±.80 **37.79N**±.073 **118.69W**±.068 **10** **13 0-5**
NEIC XI 29 12 02 06.5 37.63N 118.82W 10 **¶97xi5258**
NEIC M_L3.0(GS), M_D2.9(GM), After GM−P.
ISC XI 30 21 17 07.0±.25 **37.57N**±.032 **118.99W**±.028 **7** **4.5b,4.4s** **80 0-149**
NEIC XI 30 21 17 05.4 37.63N 118.95W 7 4.6b **¶97xi5462**
EIDC XI 30 21 17 06.8 37.6N 118.9W 0 4.2b,4.4s
NEIC Mw4.9(BRK), M_L4.9(BRK). Felt, After GM−P.
NEIC Felt at Mammoth Lakes, California.
ISC XI 30 21 39 29±3.8 **37.8N**±.30 **118.9W**±.32 **5** **7 0-3**
NEIC XI 30 21 39 29.5 37.64N 118.95W 5 **¶97xi5464**
NEIC M_D2.9(GM), M_L2.9(GS), After GM−P.
ISC XI 30 22 09 46±1.0 **37.68N**±.099 **118.92W**±.096 **5** **10 0-2**
NEIC XI 30 22 09 45.4 37.64N 118.92W 5 **¶97xi5469**
NEIC M_D3.1(GM), M_L3.1(GS), After GM−P.
ISC XI 30 22 16 03.8±.99 **37.6N**±.10 **118.9W**±.10 **6** **9 0-2**
NEIC XI 30 22 16 02.8 37.63N 118.95W 6 **¶97xi5471**
NEIC M_L3.0(GS), M_D2.9(GM), After GM−P.
ISC XI 30 23 16 06.6±.62 **37.70N**±.058 **118.94W**±.066 **0** **14 0-5**
NEIC XI 30 23 16 06.2 37.63N 118.95W 0 **¶97xi5478**
NEIC M_D3.2(GM), M_L3.2(GS), After GM−P.
NEIC Double event.
ISC XII 01 05 05 18±1.0 **37.68N**±.096 **118.92W**±.084 **6** **10 0-2**
NEIC XII 01 05 05 17.1 37.63N 118.93W 6 **¶97xii0035**
NEIC M_D2.8(GM), After GM−P.
ISC XII 01 07 13 01.7±.81 **37.66N**±.091 **119.00W**±.085 **6** **9 0-2**
NEIC XII 01 07 13 02.0 37.63N 118.88W 6 **¶97xii0050**
NEIC M_D2.8(GM), After GM−P.
ISC XII 01 19 09 25.5±.69 **37.65N**±.072 **118.96W**±.074 **7** **11 0-3**
NEIC XII 01 19 09 25.1 37.64N 118.95W 7 **¶97xii0129**
NEIC M_L3.1(GS), M_D2.9(GM), After GM−P.
ISC XII 02 15 31 26.8±.55 **37.89N**±.051 **118.13W**±.059 **5** **17 1-5**
NEIC XII 02 15 31 25.9 37.89N 118.17W 5 **¶97xii0272**
NEIC M_L3.1(GS).
ISC XII 02 21 39 49.2±.85 **37.65N**±.081 **118.97W**±.087 **5** **9 0-2**
NEIC XII 02 21 39 48.7 37.64N 118.95W 5 **¶97xii0318**
NEIC M_D3.0(GM), M_L2.9(GS), After GM−P.
ISC XII 03 00 15 04.2±.54 **37.64N**±.058 **118.95W**±.058 **7** **16 0-5**
NEIC XII 03 00 15 03.7 37.64N 118.95W 7 **¶97xii0333**
NEIC M_L3.1(GS), M_L2.8(GM), After GM−P.
ISC XII 03 00 19 19.8±.31 **37.69N**±.029 **118.96W**±.036 **6** 3.4b **57 0-32**
NEIC XII 03 00 19 18.9 37.64N 118.93W 6 **¶97xii0334**
EIDC XII 03 00 19 21.8±1.99 37.7N 118.7W 0 3.3$_L$,3.4b
NEIC M_L3.9(BRK), M_L3.8(GM), After GM−P.
NEIC ML 3.8 (GS).
EIDC Error ellipse is semi−major=28.9km semi−minor=11.7km azimuth=101
ISC XII 03 00 22 31.3±.68 **37.64N**±.075 **118.92W**±.068 **5** **13 0-3**
NEIC XII 03 00 22 31.1 37.64N 118.92W 5 **¶97xii0336**
NEIC M_L3.1(GS), M_D3.0(GM).
NEIC Preceded by a small precursor about 12 seconds earlier.
ISC XII 03 04 48 05.2±.53 **37.65N**±.056 **118.97W**±.055 **7** **19 0-5**
NEIC XII 03 04 48 04.8 37.63N 118.96W 7 **¶97xii0364**
NEIC M_D3.2(GM), M_L3.2(GS), After GM−P.
ISC XII 03 11 46 44.5±.31 **37.65N**±.030 **118.98W**±.034 **5** **57 0-7**
NEIC XII 03 11 46 42.9 37.64N 118.93W 5 **¶97xii0415**
NEIC M_L3.8(GM), M_L3.8(BRK), After GM−P.
NEIC ML 3.6 (GS).
ISC XII 03 19 53 46.7±.50 **37.72N**±.044 **118.88W**±.055 **6** **36 0-6**
NEIC XII 03 19 53 45.8 37.63N 118.87W 6 **¶97xii0493**
NEIC M_L3.3(GS), M_D3.2(GM), After GM−P.
ISC XII 04 07 57 35.2±.61 **37.62N**±.067 **118.92W**±.064 **7** **18 0-5**
NEIC XII 04 07 57 33.9 37.64N 118.95W 7 **¶97xii0576**
NEIC M_D3.0(GM), M_L3.0(GS), After GM−P.
ISC XII 04 21 38 03.6±.29 **37.71N**±.028 **118.96W**±.033 **7** 3.6b **59 0-32**
NEIC XII 04 21 38 03.0 37.63N 118.96W 7 **¶97xii0696**
EIDC XII 04 21 38 03.7±1.85 37.6N 119.0W 0 3.7$_L$,3.6b
NEIC M_L4.0(GM), Mw3.9(BRK), After GM−P.
NEIC ML 4.0 (BRK).
EIDC Error ellipse is semi−major=25.5km semi−minor=13.6km azimuth=108
ISC XII 06 07 50 18±1.1 **37.6N**±.10 **119.0W**±.11 **5** **7 0-2**
NEIC XII 06 07 50 18.2 37.63N 118.92W 5 **¶97xii1298**
NEIC M_D3.0(GM), M_L2.9(GS), After GM−P.
ISC XII 06 09 20 26.9±.95 **37.6N**±.12 **119.0W**±.11 **5** **9 0-2**
NEIC XII 06 09 20 26.8 37.63N 118.92W 5 **¶97xii1331**
NEIC M_D3.0(GM), M_L3.0(GS), After GM−P.
ISC XII 06 09 46 06±2.2 **37.7N**±.12 **119.0W**±.11 **4**±19 **7 0-2**
NEIC XII 06 09 46 06.0 37.63N 118.90W 5 **¶97xii1339**
NEIC M_L2.8(GS), M_D2.7(GM), After GM−P.
ISC XII 07 10 38 36.8±.58 **37.64N**±.056 **118.91W**±.064 **5** **15 0-4**
NEIC XII 07 10 38 36.8 37.62N 118.85W 5 **¶97xii1678**
NEIC M_L3.2(GS), M_L3.0(GM), After GM−P.
ISC XII 07 16 29 12.2±.87 **38.07N**±.076 **118.81W**±.083 **5** **7 1-2**
NEIC XII 07 16 29 12.0 38.07N 118.81W 5 **¶97xii1738**
NEIC M_L2.9(GS).
ISC XII 08 02 54 15.9±.99 **37.5N**±.11 **118.78W**±.095 **4** **6 0-2**
NEIC XII 08 02 54 15.6 37.47N 118.80W 4 **¶97xii1847**
NEIC M_D2.8(GM), After GM−P.
ISC XII 08 12 07 11±1.2 **37.6N**±.13 **118.9W**±.13 **6** **5 0-2**
NEIC XII 08 12 07 10.9 37.63N 118.89W 6 **¶97xii1922**
NEIC M_D2.8(GM), After GM−P.
ISC XII 08 17 42 58.3±.69 **37.24N**±.065 **118.29W**±.077 **11** **11 0-5**
NEIC XII 08 17 42 57.3 37.25N 118.32W 11 **¶97xii1977**
NEIC M_D3.1(GM), M_L3.1(GS), After GM−P.
ISC XII 10 05 12 04.3±.50 **37.57N**±.051 **118.96W**±.049 **6** **32 0-5**
NEIC XII 10 05 12 02.4 37.63N 118.89W 6 **¶97xii2294**
NEIC M_L3.7(GM), M_L3.7(BRK), After GM−P.
ISC XII 11 05 05 52±1.5 **37.57N**±.054 **118.96W**±.053 **1**±12 **21 0-3**
NEIC XII 11 05 05 51.5 37.64N 118.94W 8 **¶97xii2495**
NEIC M_L3.2(BRK), M_L2.9(GM), After GM−P.
NEIC ML 3.1 (GS).
ISC XII 11 05 45 15.3±.65 **37.64N**±.064 **118.94W**±.057 **8** **18 0-3**
NEIC XII 11 05 45 14.2 37.64N 118.94W 8 **¶97xii2502**
NEIC M_L3.0(GS), M_D2.9(GM), After GM−P.
NEIC ML 3.0 (BRK).
ISC XII 11 07 17 40.9±.46 **37.64N**±.048 **118.93W**±.045 **2** **25 0-5**
NEIC XII 11 07 17 40.4 37.65N 118.95W 2 **¶97xii2513**
NEIC M_L3.2(BRK), M_D3.0(GM), After GM−P.
NEIC ML 3.2 (GS).
NEIC XII 12 14 37 02.5 38.65N 119.56W 5 **1-3**
NEIC M_D2.9(GM), After GM−P. **¶97xii2762**
ISC XII 14 11 13 10.5±.64 **37.60N**±.069 **118.89W**±.064 **5** **16 0-5**
NEIC XII 14 11 13 09.4 37.63N 118.89W 5 **¶97xii3136**
NEIC M_D3.4(GM), M_L3.4(BRK), After GM−P.
ISC XII 18 07 00 44.4±.47 **37.62N**±.049 **118.84W**±.051 **6** **21 0-6**
NEIC XII 18 07 00 43.9 37.63N 118.86W 6 **¶97xii3732**
NEIC M_L3.2(GS), M_L3.0(GM), After GM−P.
ISC XII 19 07 07 01.4±.32 **36.42N**±.028 **117.62W**±.040 **5** **43 0-8**
NEIC XII 19 07 07 00.6 36.43N 117.60W 5 **¶97xii3911**
NEIC M_L3.7(PAS), M_L3.6(GS).
ISC XII 19 10 48 23.3±.86 **37.66N**±.094 **118.90W**±.099 **6** **8 0-2**
NEIC XII 19 10 48 22.5 37.63N 118.89W 6 **¶97xii3939**
NEIC M_D2.8(GM), After GM−P.
ISC XII 19 17 45 04.5±.33 **37.67N**±.037 **118.98W**±.037 **7** 3.3b **41 0-150**
NEIC XII 19 17 45 03.6 37.64N 118.97W 7 **¶97xii4006**
EIDC XII 19 17 45 11.9±1.59 38.2N 118.8W 0 3.8$_L$,3.2b
NEIC M_L3.9(BRK), M_L3.8(GM), After GM−P.
NEIC ML 3.8 (GS).
EIDC Error ellipse is semi−major=25.4km semi−minor=15.5km azimuth=145
ISC XII 21 14 16 12.0±.79 **38.50N**±.099 **119.59W**±.066 **11** **12 1-3**
NEIC XII 21 14 16 11.8 38.41N 119.56W 11 **¶97xii4262**
NEIC M_D2.8(GM), After GM−P.
ISC XII 22 01 04 21.1±.60 **37.61N**±.059 **118.75W**±.068 **5** **13 0-3**
NEIC XII 22 01 04 20.3 37.58N 118.83W 5 **¶97xii4331**
NEIC M_D3.1(GM), M_L3.0(GS), After GM−P.
ISC XII 22 18 25 48.5±.68 **37.69N**±.066 **118.86W**±.068 **6** **13 0-5**
NEIC XII 22 18 25 47.9 37.63N 118.87W 6 **¶97xii4465**
NEIC M_D3.2(GM), M_L3.2(GS), After GM−P.
ISC XII 25 17 25 24.2±.79 **38.74N**±.084 **119.67W**±.072 **0** **10 1-3**
NEIC XII 25 17 25 24.4 38.73N 119.62W 0 **¶97xii4963**
NEIC M_D3.1(GM), After GM−P.
ISC XII 26 07 06 29.9±.69 **37.58N**±.076 **118.93W**±.067 **6** **13 0-5**
NEIC XII 26 07 06 29.3 37.63N 118.89W 6 **¶97xii5074**
NEIC M_L3.3(GS), M_D3.1(GM), After GM−P.
ISC XII 26 12 56 26.5±.33 **37.63N**±.038 **118.85W**±.036 **5** **37 0-7**
NEIC XII 26 12 56 26.0 37.63N 118.87W 5 **¶97xii5121**
NEIC M_L3.8(BRK), Mw3.7(BRK), After GM−P.
NEIC MD 3.7 (GM). ML 3.8 (GS).
ISC XII 27 14 47 35±1.1 **38.7N**±.12 **119.74W**±.078 **2** **9 1-3**
NEIC XII 27 14 47 35.3 38.66N 119.68W 2 **¶97xii5307**
NEIC M_D2.8(GM), After GM−P.
ISC XII 28 02 13 32.8±.71 **37.61N**±.077 **118.81W**±.067 **4** **11 0-4**
NEIC XII 28 02 13 32.5 37.62N 118.83W 4 **¶97xii5379**
NEIC M_L3.2(GS), M_D3.0(GM), After GM−P.
ISC XII 28 04 13 06.1±.55 **37.58N**±.060 **118.85W**±.056 **5** **17 0-4**
NEIC XII 28 04 13 05.2 37.62N 118.84W 5 **¶97xii5392**
NEIC M_L3.4(GS), M_D3.2(GM), After GM−P.
ISC XII 28 20 20 54.8±.84 **37.68N**±.078 **118.89W**±.086 **6** **8 0-4**
NEIC XII 28 20 20 54.4 37.63N 118.88W 6 **¶97xii5493**
NEIC M_L2.9(GS), M_D2.8(GM), After GM−P.
ISC XII 29 20 02 33.8±.32 **37.59N**±.039 **118.93W**±.035 **8** 3.4b,3.3s **40 0-32**
NEIC XII 29 20 02 32.6 37.60N 118.92W 8 **¶97xii5629**
EIDC XII 29 20 02 35.5±1.87 37.4N 119.0W 0 3.4b,3.6$_L$
NEIC M_D4.3(GM), Mw4.1(BRK). Felt, After GM−P.
NEIC ML 4.3 (BRK), 4.1 (GS). Felt in the Mammoth Lakes area, California.
EIDC Error ellipse is semi−major=38.8km semi−minor=15.8km azimuth=70
ISC XII 29 21 42 53.5±.67 **37.57N**±.074 **118.92W**±.065 **8** **13 0-3**
NEIC XII 29 21 42 52.6 37.60N 118.91W 8 **¶97xii5640**
NEIC M_L3.2(GS), M_D3.0(GM), After GM−P.
ISC XII 29 23 31 39.8±.98 **37.62N**±.099 **118.94W**±.086 **6** **8 0-2**
NEIC XII 29 23 31 39.3 37.65N 118.86W 6 **¶97xii5655**
NEIC M_L3.0(GS), M_D2.8(GM), After GM−P.
ISC XII 30 06 16 33.0±.69 **37.60N**±.069 **119.00W**±.069 **8** **11 0-3**
NEIC XII 30 06 16 32.0 37.64N 118.94W 8 **¶97xii5691**
NEIC M_D2.8(GM), M_L2.8(GS), After GM−P.
ISC XII 31 20 36 48.9±.21 **37.65N**±.024 **118.85W**±.031 **7** **4.6b,4.0s** **107 0-149**
NEIC XII 31 20 36 47.3 37.63N 118.87W 7 4.8b **¶97xii5966**
EIDC XII 31 20 36 49.8±.69 37.6N 118.7W 0 4.2b,4.0$_L$

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	Mw4.8(BRK), M_L4.8(GM). Damage, After GM–P.						
NEIC	Minor damage from falling ice at Mammoth Lakes, California. Also felt at Mammoth Mountain, California.						
EIDC	Error ellipse is semi–major=17.5km semi–minor=13.4km azimuth=80						
ISC	**XII 31 20 41 47**±2.0	**37.69N**±.073	**118.85W**±.076	**2**±17		**10**	**0-2**
NEIC	XII 31 20 41 47.5	37.63N	118.86W	7			¶97xii5967
NEIC	M_D3.2(GM), M_L3.1(GS), After GM–P.						
ISC	**XII 31 21 34 40.0**±.81	**37.69N**±.090	**118.90W**±.070	**8**		**11**	**0-3**
NEIC	XII 31 21 34 39.5	37.63N	118.87W	8			¶97xii5976
NEIC	M_L3.0(GS), M_D2.8(GM), After GM–P.						
ISC	**XII 31 21 56 31**±2.4	**37.7N**±.11	**118.8W**±.11	**2**±20		**7**	**0-2**
NEIC	XII 31 21 56 32.1	37.63N	118.87W	6			¶97xii5979
NEIC	M_L2.8(GS), M_D2.7(GM), After GM–P.						
ISC	**XII 31 22 44 17**±2.4	**37.7N**±.11	**118.9W**±.10	**4**±18		**7**	**0-2**
NEIC	XII 31 22 44 17.0	37.66N	118.87W	3			¶97xii5994
NEIC	M_L2.9(GS), M_D2.8(GM), After GM–P.						
ISC	**XII 31 22 52 28**±1.1	**37.70N**±.097	**118.86W**±.097	**7**		**7**	**0-2**
NEIC	XII 31 22 52 27.9	37.64N	118.86W	7			¶97xii5995
NEIC	M_D2.8(GM), M_L2.8(GS), After GM–P.						
ISC	**XII 31 22 58 43**±1.1	**37.69N**±.098	**118.90W**±.097	**7**		**7**	**0-2**
NEIC	XII 31 22 58 42.7	37.64N	118.86W	7			¶97xii5996
NEIC	M_L2.8(GS), M_D2.7(GM), After GM–P.						
ISC	**XII 31 23 11 31**±2.4	**37.7N**±.10	**118.89W**±.090	**0**±19		**8**	**0-2**
NEIC	XII 31 23 11 31.6	37.64N	118.87W	7			¶97xii5999
NEIC	M_D2.8(GM), M_L2.8(GS), After GM–P.						
ISC	**XII 31 23 21 50**±2.2	**37.67N**±.081	**118.90W**±.093	**4**±20		**8**	**0-2**
NEIC	XII 31 23 21 50.7	37.63N	118.88W	7			¶97xii6001
NEIC	M_D2.8(GM), M_L2.7(GS), After GM–P.						
ISC	**XII 31 23 49 58**±2.5	**37.7N**±.11	**118.9W**±.11	**2**±20		**7**	**0-2**
NEIC	XII 31 23 49 59.0	37.64N	118.86W	7			¶97xii6005
NEIC	M_D2.7(GM), After GM–P.						
ISC	**XII 31 23 54 51**±1.1	**37.70N**±.095	**118.84W**±.091	**7**		**8**	**0-2**
NEIC	XII 31 23 54 51.4	37.64N	118.87W	7			¶97xii6006
NEIC	M_D3.0(GM), M_L2.9(GS), After GM–P.						
ISC	**XII 31 23 57 18**±1.3	**37.7N**±.11	**118.9W**±.12	**7**		**5**	**0-2**
NEIC	XII 31 23 57 15.1	37.65N	118.84W	7			¶97xii6008
NEIC	M_D2.8(GM), After GM–P.						

(43) Southern California.

NEIC	**VII 01 03 15 11.3**	**33.19N**	**115.59W**	**4**		**1**	**1-3**
ECX	VII 01 03 15 10.7	33.24N	115.61W	8	3.5$_D$		¶97vii0020
NEIC	M_L2.9(PAS), After PAS.						
ISC	**VII 03 06 18 51**±1.0	**34.98N**±.061	**116.78W**±.095	**0**		**22**	**0-2**
NEIC	VII 03 06 18 51.9	34.97N	116.81W	0			¶97vii0366
NEIC	M_L2.8(PAS), After PAS.						
ISC	**VII 11 06 40 22.5**±.54	**34.48N**±.035	**118.09W**±.051	**7**±5.9		**28**	**0-3**
NEIC	VII 11 06 40 23.0	34.47N	118.08W	10			¶97vii1634
NEIC	M_L3.0(PAS), M_L2.8(GS), After PAS.						
ISC	**VII 12 11 13 17.7**±.47	**34.00N**±.036	**116.11W**±.051	**6**		**27**	**0-4**
NEIC	VII 12 11 13 17.9	34.03N	116.09W	6			¶97vii1806
NEIC	M_L3.0(PAS), M_L2.8(GS), After PAS.						
ISC	**VII 12 16 46 16.3**±.59	**34.17N**±.041	**117.35W**±.039	**3**±6.9		**26**	**0-3**
NEIC	VII 12 16 46 17.1	34.15N	117.34W	8			¶97vii1841
NEIC	M_L2.9(GS), M_L2.7(PAS), After PAS.						
ISC	**VII 12 18 05 39.9**±.68	**34.14N**±.037	**117.34W**±.042	**8**±6.6		**33**	**0-6**
NEIC	VII 12 18 05 40.7	34.16N	117.33W	9			¶97vii1850
NEIC	M_L3.5(PAS), M_L3.4(GS). Felt, After PAS.						
NEIC	Felt in the San Bernardino area.						
ISC	**VII 13 01 29 22.9**±.57	**34.16N**±.038	**117.34W**±.040	**6**±6.5		**24**	**0-3**
NEIC	VII 13 01 29 23.7	34.15N	117.33W	9			¶97vii1903
NEIC	M_L2.9(GS), M_L2.8(PAS), After PAS.						
ISC	**VII 15 14 34 09.4**±.65	**34.04N**±.040	**117.24W**±.044	**8**±6.2		**27**	**0-3**
NEIC	VII 15 14 34 09.9	34.04N	117.24W	15			¶97vii2315
NEIC	M_L2.9(PAS), After PAS.						
ISC	**VII 22 12 15 02**±4.4	**33.9N**±.23	**116.5W**±.57	**5**		**4**	**0-2**
NEIC	VII 22 12 15 01.0	34.02N	116.33W	5			¶97vii3376
ISC	Poorly determined						
NEIC	M_L2.8(PAS), After PAS.						
ISC	**VII 26 03 14 55.2**±.72	**33.40N**±.042	**116.33W**±.036	**6**±6.2	**4.0b**,3.5s	**69**	**0-100**
BJI	VII 26 03 14 53.8	33.27N	116.28W	18			¶97vii3903
ECX	VII 26 03 14 55.5	33.40N	116.30W	10	4.9$_D$		
NEIC	VII 26 03 14 55.9	33.40N	116.35W	12			
EIDC	VII 26 03 14 56.0	33.4N	116.4W	0	4.1b,3.7$_L$		
ECX	Felt north east of San Diego						
NEIC	M_L4.8(PAS). Felt I=IV MM, After PAS.						
NEIC	Felt I=IV MM at Oceanside and Rancho Mirage; III MM at El Cajon. Also felt at Borrego Springs and San Diego. Felt in Los Angeles, Orange, Riverside, San Bernardino and San Diego Counties.						
ISC	**VII 26 10 24 16.1**±.49	**34.15N**±.036	**117.34W**±.032	**9**±5.4	3.3b	**41**	**0-36**
NEIC	VII 26 10 24 16.9	34.16N	117.33W	9	4.2b		¶97vii3952
EIDC	VII 26 10 24 18.5	34.1N	117.2W	0	3.3$_L$,3.3b		
NEIC	M_L3.7(PAS). Felt, After PAS.						
NEIC	Felt in the San Bernardino area.						
ISC	**VII 26 11 53 14.5**±.53	**33.29N**±.045	**116.40W**±.048	**11**		**27**	**0-4**
NEIC	VII 26 11 53 14.9	33.33N	116.39W	11			¶97vii3961
NEIC	M_L3.2(GS), M_L3.1(PAS), After PAS.						
ISC	**VII 27 00 06 05.5**±.99	**34.33N**±.039	**118.68W**±.064	**13**±8.2		**28**	**0-3**
NEIC	VII 27 00 06 06.2	34.36N	118.70W	15			¶97vii4034
NEIC	M_L3.1(PAS). Felt, After PAS.						
ISC	**VII 29 20 17 28**±2.9	**33.9N**±.18	**117.8W**±.15	**1**±20		**5**	**0-2**
NEIC	VII 29 20 17 29.6	33.88N	117.83W	5			¶97vii4477
ISC	Poorly determined						
NEIC	M_L2.7(PAS). Felt, After PAS.						
NEIC	Felt in Orange County.						
ISC	**VIII 02 04 35 16.9**±.70	**34.03N**±.054	**117.23W**±.048	**8**±7.2		**26**	**0-3**
NEIC	VIII 02 04 35 17.6	34.03N	117.23W	14			¶97viii0170
NEIC	M_L2.7(PAS). Felt, After PAS.						
ISC	**VIII 04 07 03 23.5**±.78	**34.21N**±.050	**118.50W**±.064	**15**±8.2		**28**	**0-3**
NEIC	VIII 04 07 03 23.7	34.20N	118.57W	17			¶97viii0470
NEIC	M_L3.1(PAS). Felt, After PAS.						
NEIC	Felt in the Reseda area.						
ISC	**VIII 09 17 28 55.6**±.42	**34.15N**±.038	**116.45W**±.042	**3**		**28**	**0-4**
NEIC	VIII 09 17 28 56.0	34.15N	116.44W	3			¶97viii1294
NEIC	M_L2.9(PAS), M_L2.9(GS), After PAS.						
ISC	**VIII 13 14 43 56.1**±.55	**34.17N**±.054	**117.34W**±.057	**6**		**17**	**0-3**
NEIC	VIII 13 14 43 56.5	34.15N	117.33W	6			¶97viii1920
NEIC	M_L3.0(PAS). Felt, After PAS.						
ECX	**VIII 14 18 55 32.5**	**33.04N**	**116.08W**	**9**	**3.1$_D$**		¶97viii2099
ISC	**VIII 17 16 18 23**±6.8	**34.3N**±.24	**118.6W**±.55	**12**		**4**	**0-3**
NEIC	VIII 17 16 18 24.8	34.27N	118.56W	12			¶97viii2562
ISC	Poorly determined						
NEIC	M_L2.4(PAS). Felt, After PAS.						
NEIC	**VIII 17 20 20 09.7**	**34.32N**	**118.46W**	**8**			**0-2**
NEIC	M_L2.8(PAS), After PAS.						¶97viii2583
ISC	**VIII 19 21 37 18.1**±.70	**34.10N**±.046	**118.00W**±.047	**8**±6.0		**25**	**0-3**
NEIC	VIII 19 21 37 18.8	34.11N	117.96W	12			¶97viii2872
NEIC	M_L2.8(PAS), After PAS.						
NEIC	**VIII 20 01 54 17.0**	**34.27N**	**118.47W**	**11**			**0-2**
NEIC	M_L2.2(PAS). Felt, After PAS.						¶97viii2894
ISC	**VIII 21 01 29 04.6**±.47	**34.18N**±.033	**118.53W**±.050	**7**		**34**	**0-7**
NEIC	VIII 21 01 29 05.2	34.18N	118.52W	7			¶97viii3040
NEIC	M_L3.4(PAS), M_L3.2(GS). Felt, After PAS.						
NEIC	Felt in the San Fernando Valley.						
ISC	**VIII 30 22 39 30.7**±.94	**34.92N**±.039	**116.91W**±.048	**6**±8.6		**25**	**0-2**
NEIC	VIII 30 22 39 31.7	34.90N	116.93W	5			¶97viii4549
NEIC	M_L2.7(PAS), After PAS.						
ISC	**IX 02 13 47 35.1**±.82	**34.18N**±.054	**117.32W**±.055	**4**±8.1		**23**	**0-3**
NEIC	IX 02 13 47 35.9	34.15N	117.34W	7			¶97ix0283
NEIC	M_L3.1(GS), M_L3.1(PAS). Felt, After PAS.						
ISC	**IX 02 15 32 56.1**±.60	**34.16N**±.048	**117.32W**±.042	**6**±7.6		**22**	**0-3**
NEIC	IX 02 15 32 56.8	34.15N	117.33W	6			¶97ix0295
NEIC	M_L2.7(PAS), After PAS.						
ISC	**IX 03 03 46 24.8**±.80	**33.46N**±.057	**118.22W**±.056	**2**		**22**	**0-4**
NEIC	IX 03 03 46 25.4	33.46N	118.20W	2			¶97ix0373
NEIC	M_L3.1(PAS), After PAS.						
ISC	**IX 07 17 26 23.7**±.92	**33.00N**±.062	**117.89W**±.069	**12**		**22**	**1-2**
ECX	IX 07 17 26 22.9	32.98N	117.99W	12	3.4$_D$		¶97ix1108
NEIC	IX 07 17 26 23.7	33.01N	117.84W	0			
NEIC	M_L2.8(PAS), After PAS.						
ISC	**IX 14 08 31 19.6**±.98	**34.43N**±.042	**119.03W**±.054	**4**±7.1		**34**	**0-7**
NEIC	IX 14 08 31 21.3	34.46N	119.01W	6			¶97ix2097
NEIC	M_L3.4(PAS), M_L3.2(GS), After PAS.						
ISC	**IX 19 22 37 13.7**±.78	**34.13N**±.033	**116.85W**±.038	**12**±7.1		**44**	**0-12**
EIDC	IX 19 22 37 13.7	33.9N	117.1W	0	3.7$_L$		¶97ix2859
NEIC	IX 19 22 37 14.4	34.14N	116.86W	10			
NEIC	M_L4.1(PAS), M_L4.0(GS). Felt, After PAS.						
NEIC	Felt in the epicentral area.						
ISC	**IX 25 20 08 07.1**±.62	**34.40N**±.034	**118.38W**±.052	**8**±6.1		**27**	**0-3**
NEIC	IX 25 20 08 07.8	34.40N	118.35W	5			¶97ix3786
NEIC	M_L3.4(PAS). Felt, After PAS.						
NEIC	Felt in the San Fernando Valley.						
ISC	**IX 28 15 57 22.2**±.64	**34.30N**±.027	**116.47W**±.028	**11**±5.7	**3.8b**,3.0s	**81**	**0-36**
NEIC	IX 28 15 57 22.9	34.30N	116.45W	8	4.0b		¶97ix4692
EIDC	IX 28 15 57 23.2	34.2N	116.6W	0	3.8$_L$,3.8b		
NEIC	M_L4.7(BRK), M_L4.4(PAS). Felt, After PAS.						
NEIC	Felt in the Yucca Valley-Palm Springs area.						
ISC	**X 01 03 27 02**±1.1	**33.42N**±.072	**118.21W**±.060	**10**±12		**22**	**0-4**
NEIC	X 01 03 27 03.1	33.50N	118.25W	4			¶97x0017
NEIC	M_L2.7(PAS), After PAS.						
ISC	**X 04 05 10 45.7**±.63	**34.52N**±.035	**118.32W**±.045	**6**±5.8		**31**	**0-5**
NEIC	X 04 05 10 46.2	34.50N	118.32W	3			¶97x0587
NEIC	M_L3.1(PAS), After PAS.						
ISC	**X 04 19 36 49.6**±.46	**34.65N**±.036	**116.50W**±.044	**5**		**27**	**0-5**
NEIC	X 04 19 36 50.4	34.65N	116.52W	5			¶97x0712
NEIC	M_L2.9(PAS), After PAS.						
ISC	**X 06 21 27 31**±1.1	**34.26N**±.045	**118.50W**±.084	**3**±7.3		**24**	**0-3**
NEIC	X 06 21 27 32.0	34.27N	118.47W	11			¶97x1121
NEIC	M_L3.1(PAS). Felt, After PAS.						
NEIC	Felt at Hollywood and in the San Fernando Valley.						
ISC	**X 11 19 03 12.5**±.52	**33.74N**±.041	**116.17W**±.046	**6**±7.0		**21**	**0-2**
NEIC	X 11 19 03 13.1	33.76N	116.13W	8			¶97x1924
NEIC	M_L2.9(PAS), After PAS.						
ISC	**X 14 22 31 32.8**±.59	**34.11N**±.035	**117.44W**±.039	**1**±6.0	3.3b	**39**	**0-36**
EIDC	X 14 22 31 33.1	33.8N	117.5W	0	3.3b,4.0$_L$		¶97x2508
NEIC	X 14 22 31 33.7	34.11N	117.43W	3			
NEIC	M_L3.9(PAS). Felt, After PAS.						
NEIC	Felt at Fontana and in parts of Riverside County.						
ISC	**X 15 03 21 52**±2.2	**34.9N**±.20	**116.8W**±.17	**8**±23		**6**	**1-9**
NEIC	X 15 03 21 52.5	34.96N	116.84W	3			¶97x2555
NEIC	M_L3.2(PAS), After PAS.						
ISC	**X 16 09 37 53.8**±.89	**34.00N**±.044	**116.77W**±.047	**14**±7.9		**28**	**0-5**
ECX	X 16 09 37 52.0	34.08N	117.07W	3	3.3$_D$		¶97x2817
NEIC	X 16 09 37 54.6	34.02N	116.75W	13			
NEIC	M_L3.1(PAS), After PAS.						
ISC	**X 16 16 02 28.9**±.73	**34.21N**±.040	**118.67W**±.053	**3**±6.3		**28**	**0-3**
NEIC	X 16 16 02 29.7	34.22N	118.62W	3			¶97x2855
NEIC	M_L3.3(GS), M_L3.0(PAS). Felt, After PAS.						
NEIC	Felt at Chatsworth and in the San Fernando Valley.						
ISC	**X 18 20 57 15**±1.4	**33.35N**±.068	**118.72W**±.068	**12**±9.4		**26**	**0-7**
NEIC	X 18 20 57 16.1	33.42N	118.74W	10			¶97x3234
NEIC	M_L3.4(PAS), After PAS.						
ISC	**X 22 14 09 58.5**±.79	**34.28N**±.059	**116.46W**±.045	**2**±9.1		**23**	**0-2**
NEIC	X 22 14 09 59.4	34.30N	116.45W	6			¶97x3830
NEIC	M_L3.0(PAS). Felt, After PAS.						
NEIC	Felt in the Landers and Yucca Valley areas.						
ISC	**X 23 18 58 30.3**±.52	**34.97N**±.036	**116.96W**±.050	**6**		**29**	**0-4**
NEIC	X 23 18 58 30.9	34.98N	116.96W	6			¶97x4048
NEIC	M_L3.0(PAS), After PAS.						
ISC	**X 26 04 02 40.0**±.83	**34.24N**±.038	**118.72W**±.059	**11**±7.3		**29**	**0-4**
NEIC	X 26 04 02 40.9	34.26N	118.71W	14			¶97x4414
NEIC	M_L3.1(PAS). Felt, After PAS.						
NEIC	Felt at Simi Valley.						
ISC	**X 27 16 41 14**±5.4	**33.2N**±.28	**116.0W**±.20	**7**±14		**19**	**1-5**
ECX	X 27 16 41 14.7	33.81N	116.70W	14	3.3$_D$		¶97x4633
NEIC	X 27 16 41 15.0	33.18N	116.04W	11			
NEIC	M_L3.2(PAS), After PAS.						
ISC	**XI 04 14 36 21.0**±.60	**34.10N**±.039	**117.41W**±.043	**5**±6.8		**31**	**0-5**
NEIC	XI 04 14 36 21.7	34.10N	117.43W	4			¶97xi0654
ECX	XI 04 14 36 22.0	34.08N	117.54W	5	3.5$_D$		
NEIC	M_L3.6(PAS), After PAS.						
NEIC	Felt in the Ontario-Riverside-San Bernardino area.						
ISC	**XI 06 04 33 42.5**±.37	**34.99N**±.029	**116.98W**±.039	**5**		**42**	**0-8**
NEIC	XI 06 04 33 43.4	34.98N	116.95W	5			¶97xi0922
NEIC	M_L3.8(PAS), M_L3.8(GS). Felt, After PAS.						
NEIC	Felt at Barstow.						
ISC	**XI 11 16 29 08.8**±.93	**33.47N**±.065	**118.05W**±.058	**6**		**23**	**0-3**
NEIC	XI 11 16 29 09.5	33.49N	118.06W	6			¶97xi1823
NEIC	M_L2.9(PAS), After PAS.						

NEIC XI 26 05 14 53.0 34.01N 117.22W 11 1-1
NEIC M_L2.3(PAS). Felt, After PAS. ¶97xi4641
NEIC Felt at Riverside.
ISC XI 29 13 51 00.5±.55 33.95N±.053 116.96W±.053 17±7.9 28 0-3
NEIC XI 29 13 51 01.2 33.97N 116.95W 15 ¶97xi5276
NEIC M_L2.9(PAS), After PAS.
ECX XII 03 19 10 44.3 33.13N 115.67W 8 3.0D ¶97xii0484
NEIC XII 03 23 06 23.6 33.16N 115.65W 3 1-5
ECX XII 03 23 06 43.2 32.30N 116.67W 8 3.5D ¶97xii0517
NEIC M_L2.9(PAS), After PAS.
ECX Felt in the Las Palmas Valley
ISC XII 04 08 30 56.5±.46 33.18N±.042 115.67W±.038 2 32 0-8
NEIC XII 04 08 30 57.3 33.16N 115.66W 2 ¶97xii0581
ECX XII 04 08 30 58.4 33.16N 115.72W 11 3.9D
NEIC M_L3.4(PAS), After PAS.
NEIC ML 3.4 (GS).
NEIC XII 04 10 01 30.6 33.16N 115.65W 4 1-2
ECX XII 04 10 01 32.6 33.12N 115.78W 8 3.3D ¶97xii0593
NEIC M_L2.8(PAS), After PAS.
ISC XII 05 17 04 38.1±.73 34.09N±.032 117.00W±.034 7±6.2 3.7b 58 0-36
NEIC XII 05 17 04 38.9 34.10N 117.00W 5 ¶97xii0975
EIDC XII 05 17 04 39.8±1.75 34.1N 116.9W 0 3.9L,3.7b
NEIC M_L4.5(BRK), M_L4.1(PAS). After PAS.
NEIC ML 4.2 (GS). Felt in the epicentral area.
EIDC Error ellipse is semi−major=38.5km semi−minor=8.3km azimuth=66
ISC XII 05 19 01 01.9±.41 34.09N±.035 116.99W±.048 5 24 0-2
NEIC XII 05 19 01 02.2 34.10N 117.00W 5 ¶97xii1032
NEIC M_L2.9(PAS), After PAS.
ISC XII 26 15 05 31±3.2 33.2N±.28 115.64W±.085 10 17 1-7
NEIC XII 26 15 05 32.2 33.32N 115.69W 10 ¶97xii5156
NEIC M_L3.8(GS), M_L3.7(PAS), After PAS.
ISC XII 27 16 56 40.2±.55 33.35N±.035 115.71W±.042 13±5.1 3.6b 33 0-37
EIDC XII 27 16 56 33.9±2.06 32.6N 116.6W 0 3.8b,3.7L ¶97xii5320
NEIC XII 27 16 56 41.4 33.32N 115.69W 4
EIDC Error ellipse is semi−major=28.0km semi−minor=16.7km azimuth=83
NEIC M_L3.6(GS), M_L3.2(PAS), After PAS.
NEIC XII 28 08 12 28.7 33.18N 116.04W 6 1-4
NEIC M_L2.8(PAS), M_D2.7(ECX), After PAS. ¶97xii5420
ISC XII 31 12 22 43±1.1 33.1N±.11 115.69W±.069 10 3.4b 23 1-29
EIDC XII 31 12 22 43.0±4.41 32.8N 116.1W 0 3.9L,3.3b ¶97xii5893
NEIC XII 31 12 22 45.0 33.19N 115.61W 10
EIDC Error ellipse is semi−major=83.6km semi−minor=16.1km azimuth=53
NEIC M_L4.1(PAS). Felt, After PAS.
NEIC Felt in the Niland area.
ISC XII 31 13 05 50±1.4 33.6N±.11 115.63W±.074 6 20 1-7
NEIC XII 31 13 05 46.2 33.19N 115.61W 6 ¶97xii5901
NEIC M_L3.1(PAS), After PAS.

(45) California-Mexico border region.

ISC VII 03 19 17 49±1.8 32.2N±.13 115.41W±.067 6 21 0-3
NEIC VII 03 19 17 50.9 32.19N 115.41W 6 ¶97vii0441
ECX VII 03 19 17 53.3 32.33N 115.44W 12 3.5D
NEIC M_L3.5(PAS), After PAS.
ISC VII 05 12 42 37±1.1 32.70N±.097 115.40W±.068 23±8.5 16 0-3
NEIC VII 05 12 42 38.3 32.71N 115.42W 20 ¶97vii0729
ECX VII 05 12 42 40.2 32.43N 115.54W 9 3.7D
NEIC M_L3.5(PAS). Felt, After PAS.
NEIC Felt at Calexico, California and at Mexicali, Baja California.
ECX Felt Calexico
ISC VII 14 10 20 36±1.3 32.58N±.098 115.88W±.049 4±7.6 24 0-4
NEIC VII 14 10 20 37.5 32.63N 115.90W 6 ¶97vii2103
ECX VII 14 10 20 38.7 32.62N 115.91W 4 3.3D
NEIC M_L3.2(PAS), After PAS.
NEIC ML 3.1 (GS).
ISC VII 25 07 00 23±2.3 32.4N±.16 115.20W±.073 10±10 18 0-2
NEIC VII 25 07 00 24.4 32.41N 115.18W 6 ¶97vii3785
ECX VII 25 07 00 24.5 32.57N 115.19W 10 3.4D
NEIC M_L3.0(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt east of the Mexicali Valley
ISC VII 31 08 01 28±3.6 32.4N±.24 115.19W±.083 19±13 16 0-8
NEIC VII 31 08 01 29.1 32.39N 115.18W 6 ¶97vii4700
ECX VII 31 08 01 30.1 32.53N 115.22W 9 3.5D
NEIC M_D3.5(ECX), M_L3.1(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
NEIC VII 31 08 13 32.3 32.41N 115.18W 6 2-3
ECX VII 31 08 13 31.7 32.57N 115.14W 9 3.2D ¶97vii4703
NEIC M_D3.2(ECX), M_L2.9(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt east of the Mexicali Valley
ISC VII 31 11 04 45±2.4 32.5N±.17 115.22W±.077 6 15 0-3
NEIC VII 31 11 04 44.7 32.40N 115.17W 6 ¶97vii4718
NEIC M_L2.9(PAS), After PAS.
NEIC VII 31 11 41 02.9 32.39N 115.18W 6 2-3
ECX VII 31 11 41 04.6 32.53N 115.27W 9 3.2D ¶97vii4725
NEIC M_L3.0(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt east of the Mexicali Valley
ISC VII 31 11 43 24±1.8 32.4N±.13 115.20W±.067 12±8.4 21 0-8
NEIC VII 31 11 43 25.2 32.40N 115.18W 6 ¶97vii4726
ECX VII 31 11 43 26.1 32.54N 115.20W 15 3.7D
NEIC M_D3.7(ECX), M_L3.1(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt east of the Mexicali Valley
ISC VIII 09 23 40 53±2.2 32.3N±.15 115.11W±.081 6 25 0-8
NEIC VIII 09 23 40 54.1 32.30N 115.12W 6 ¶97viii1321
ECX VIII 09 23 40 55.3 32.49N 115.17W 8 3.9D
NEIC M_L3.1(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt Mexicali Valley
ISC VIII 10 00 54 07±1.8 32.4N±.11 115.11W±.055 6±8.3 27 0-8
NEIC VIII 10 00 54 06.9 32.31N 115.12W 6 ¶97viii1329
ECX VIII 10 00 54 07.6 32.50N 115.12W 8 3.6D
NEIC M_L3.0(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt Mexicali Valley
ECX VIII 10 01 00 42.6 32.51N 115.14W 8 3.2D ¶97viii1331
ECX VIII 10 01 48 57.3 32.39N 115.10W 9 3.0D ¶97viii1336
ISC VIII 10 01 50 36±2.0 32.4N±.13 115.16W±.086 6 20 0-3
NEIC VIII 10 01 50 35.9 32.31N 115.12W 6 ¶97viii1337
ECX VIII 10 01 50 36.8 32.44N 115.12W 16 3.4D
NEIC M_L3.1(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt Mexicali Valley
ISC VIII 10 06 02 06±2.2 32.4N±.15 115.19W±.076 6 26 0-7
NEIC VIII 10 06 02 04.2 32.31N 115.13W 6 ¶97viii1355
NEIC M_L3.0(PAS), After PAS.
ECX VIII 10 21 48 14.8 32.37N 115.05W 7 3.4D ¶97viii1461
ECX Felt Mexicali Valley
ISC VIII 10 22 09 53±1.1 32.36N±.089 115.20W±.049 6 3.7b 39 0-38
EIDC VIII 10 22 09 52.3 31.9N 115.6W 0 3.2L,3.8b ¶97viii1465
NEIC VIII 10 22 09 53.0 32.30N 115.13W 6 3.8b
ECX VIII 10 22 09 54.3 32.44N 115.16W 4 3.5D
NEIC M_L3.4(PAS). Felt, After PAS.
NEIC Felt in the Yuma, Arizona area.
ECX Felt Mexicali Valley
ECX VIII 10 22 50 12.4 32.43N 115.11W 8 3.2D ¶97viii1473
ECX VIII 11 18 44 49.7 32.39N 115.13W 3 3.6D ¶97viii1606
NEIC VIII 11 18 44 48.9 32.33N 115.12W 6
ECX Felt Mexicali Valley
NEIC M_L2.8(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ISC VIII 13 03 13 23±1.8 32.3N±.12 115.58W±.067 6 22 0-3
ECX VIII 13 03 13 19.8 32.33N 115.44W 12 3.2D ¶97viii1844
NEIC VIII 13 03 13 23.4 32.22N 115.59W 6
NEIC M_L2.8(PAS), After PAS.
ISC VIII 13 15 02 02±2.4 32.3N±.18 115.11W±.075 21±13 21 0-4
NEIC VIII 13 15 02 02.6 32.29N 115.13W 6 ¶97viii1926
ECX VIII 13 15 02 03.0 32.53N 115.18W 7 3.4D
NEIC M_L3.0(PAS). Felt, After PAS.
NEIC Felt in the epicentral area.
ECX Felt Mexicali Valley
ECX VIII 14 21 33 53.8 32.21N 115.79W 12 3.0D ¶97viii2114
NEIC VIII 16 01 14 27.9 32.15N 115.79W 6 2-3
ECX VIII 16 01 14 29.9 32.25N 115.79W 5 3.3D ¶97viii2301
NEIC M_L3.0(PAS), After PAS.
ECX VIII 16 05 56 30.5 32.44N 115.22W 16 3.2D ¶97viii2324
ECX VIII 22 10 02 51.6 32.23N 115.64W 11 3.2D ¶97viii3211
ECX VIII 22 19 46 22.2 32.22N 115.64W 12 3.5D ¶97viii3274
ECX VIII 24 02 52 19.2 32.35N 115.35W 12 3.0D ¶97viii3475
ECX VIII 24 06 42 11.8 32.23N 115.66W 12 3.0D ¶97viii3488
ECX VIII 25 04 38 24.9 32.40N 115.29W 12 3.0D ¶97viii3644
NEIC VIII 26 01 45 49.2 32.29N 115.30W 6 2-2
ECX VIII 26 01 45 50.5 32.35N 115.28W 16 3.3D ¶97viii3772
NEIC M_L2.9(PAS), After PAS.
ISC VIII 31 19 19 39±1.7 32.2N±.14 115.59W±.059 6 24 0-8
NEIC VIII 31 19 19 38.5 32.17N 115.67W 6 ¶97viii4696
ECX VIII 31 19 19 39.7 32.24N 115.64W 4 3.7D
NEIC M_D3.7(ECX), M_L2.9(PAS), After PAS.
ECX IX 12 23 55 34.1 32.23N 115.79W 4 3.1D ¶97ix1886
ECX IX 15 02 13 47.3 32.72N 115.42W 13 3.0D ¶97ix2192
NEIC IX 17 08 08 28.7 32.29N 115.15W 6 2-2
ECX IX 17 08 08 27.7 32.42N 114.98W 14 3.3D ¶97ix2485
NEIC M_L2.9(PAS), M_D3.3(ECX), After PAS.
ISC IX 17 22 16 01±1.4 32.4N±.10 115.61W±.057 3 21 0-3
NEIC IX 17 22 16 02.8 32.53N 115.63W 3 ¶97ix2564
ECX IX 17 22 16 09.9 32.60N 115.64W 13 3.2D
NEIC M_L3.3(PAS), M_D3.2(ECX), After PAS.
NEIC First of two events about 6.5 seconds apart. Magnitude from the larger, second event.
ECX IX 26 16 41 01.1 32.58N 115.64W 12 3.2D ¶97ix4079
ECX X 18 02 43 26.5 32.43N 115.18W 8 3.5D ¶97x3090
ECX Felt in the Mexicali Valley
ISC XI 08 16 30 43±1.3 32.40N±.095 115.29W±.046 6 25 0-8
NEIC XI 08 16 30 41.6 32.27N 115.22W 6 ¶97xi1316
ECX XI 08 16 30 43.8 32.38N 115.23W 16 4.0D
NEIC After PAS.
NEIC Felt south of Mexicali, Baja California.
ISC XI 18 13 48 00±1.7 32.2N±.12 115.35W±.060 6 21 1-3
NEIC XI 18 13 48 00.6 32.18N 115.38W 6 ¶97xi2976
ECX XI 18 13 48 02.7 32.29N 115.41W 15 3.4D
NEIC M_L3.1(PAS), After PAS.
ISC XI 25 05 00 28±3.6 32.1N±.31 115.7W±.21 6 5 2-8
NEIC XI 25 05 00 27.2 31.94N 115.72W 6 ¶97xi4448
ECX XI 25 05 00 29.0 32.02N 115.72W 11 3.5D
NEIC M_L3.0(PAS), After PAS.
ISC XI 28 14 51 37±2.0 32.3N±.12 115.29W±.058 4±8.8 26 0-6
NEIC XI 28 14 51 37.9 32.27N 115.30W 6 ¶97xi5103
ECX XI 28 14 51 39.3 32.37N 115.29W 13 3.8L
NEIC M_L3.7(PAS). Felt, After PAS.
NEIC Felt in the Mexicali Valley, Baja California.
ECX Felt Mexicali Valley
ECX XII 07 22 45 23.8 32.44N 116.29W 18 3.0D ¶97xii1801
ISC XII 09 01 10 15±1.2 32.4N±.10 115.33W±.045 6 3.6b,3.1s 47 0-38
NEIC XII 09 01 10 12.6 32.34N 115.26W 6 3.9b ¶97xii2064
EIDC XII 09 01 10 12.7±2.38 32.1N 115.5W 0 3.6L,3.7b
ECX XII 09 01 10 12.9 32.41N 115.26W 1 4.5D
NEIC M_D4.5(ECX), M_L4.0(PAS). Felt, After PAS.
NEIC Felt at the Cerro Prieto Geothermal Plant and in the area south of Mexicali, Baja California, Mexico.
EIDC Error ellipse is semi−major=33.0km semi−minor=13.3km azimuth=37
ECX XII 09 01 52 36.2 32.44N 115.22W 3 3.3D ¶97xii2073
ECX Felt in the Ejido Hidalgo, Mexicali Valley
ISC XII 10 13 25 18±1.3 32.52N±.098 115.36W±.047 14±7.2 19 0-2
NEIC XII 10 13 25 18.5 32.47N 115.39W 6 ¶97xii2361
NEIC M_L3.0(PAS), M_D2.9(ECX). After PAS.
NEIC Felt in the Mexicali area, Baja California.
ECX XII 14 07 13 35.4 32.70N 115.68W 12 3.1D ¶97xii3108
NEIC XII 22 14 45 04.3 32.01N 116.37W 6 2-9
ECX XII 22 14 45 05.1 32.04N 116.35W 17 3.1D ¶97xii4435
NEIC M_L3.2(PAS) After PAS.

(46) Western Arizona-Mexico border region.

ECX VII 13 19 41 06.2 32.29N 114.93W 11 3.4D ¶97vii2015

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °

SEISMIC REGION 4. LOWER CALIFORNIA AND GULF OF CALIFORNIA.

(48) Lower California.

ISC	**VII**	**02 00 03 23.6**±.90	**31.26N**±.080	**115.65W**±.050	**6**	**4.1b**		**79**	**1-120**
EIDC	VII	02 00 03 22.7	31.2N	115.8W	0	4.2b,3.8L			¶97vii0158
NEIC	VII	02 00 03 23.0	31.28N	115.47W	6	4.0b			
ECX	VII	02 00 03 24.4	31.30N	115.56W	17	4.3D			
NEIC	M_L4.3(PAS), M_D4.3(ECX). Felt, After PAS.								
NEIC	Felt in the epicentral area.								
ECX	Felt San Matias								
ECX	**VII**	**08 22 56 19.6**	**31.28N**	**115.62W**	**10**	**3.3D**			**¶97vii1247**
ISC	**VII**	**11 10 22 42**±1.6	**26.3N**±.19	**112.1W**±.21	**10**	**4.0b**		**22**	**8-142**
NEIC	VII	11 10 22 42.5	26.46N	111.86W	10	3.5b			¶97vii1669
EIDC	VII	11 10 22 42.9	26.5N	111.9W	0	4.1b,3.7L			
NEIC	Less reliable solution.								
ECX	**VII**	**13 03 08 45.9**	**31.82N**	**116.01W**	**15**	**3.1D**			**¶97vii1916**
ECX	**VII**	**15 03 14 35.8**	**31.92N**	**115.73W**	**8**	**3.0D**			**¶97vii2244**
ECX	**VII**	**17 05 48 19.2**	**31.94N**	**115.71W**	**3**	**3.0D**			**¶97vii2550**
ECX	**VII**	**17 17 56 20.3**	**31.92N**	**115.73W**	**3**	**3.1D**			**¶97vii2621**
ECX	**VII**	**20 12 04 03.1**	**31.35N**	**115.65W**	**12**	**3.7D**			**¶97vii3087**
NEIC	VII	20 12 04 00.5	31.30N	115.47W	6				
NEIC	M_L3.8(PAS), M_D3.7(ECX), After PAS.								
ECX	**VII**	**22 01 06 52.4**	**31.92N**	**115.75W**	**3**	**3.2D**			**¶97vii3306**
ISC	**VII**	**22 01 44 56**±2.2	**31.9N**±.15	**115.74W**±.075	**6**			**21**	**1-3**
NEIC	VII	22 01 44 56.0	31.89N	115.77W	6				¶97vii3313
ECX	VII	22 01 44 56.7	31.91N	115.74W	3	3.3D			
NEIC	M_L2.9(PAS), After PAS.								
ECX	**VII**	**22 09 35 04.4**	**31.29N**	**115.64W**	**11**	**3.1D**			**¶97vii3351**
ECX	**VII**	**26 22 39 54.7**	**31.27N**	**115.67W**	**11**	**3.6D**			**¶97vii4020**
ECX	**VII**	**26 23 02 46.2**	**31.26N**	**115.65W**	**11**	**3.1D**			**¶97vii4025**
ECX	**VII**	**26 23 51 17.0**	**31.26N**	**115.66W**	**11**	**3.3D**			**¶97vii4031**
ECX	**VII**	**26 23 54 41.3**	**31.26N**	**115.64W**	**11**	**3.0D**			**¶97vii4032**
ECX	**VII**	**27 15 39 44.9**	**31.92N**	**115.78W**	**15**	**2.6D**			**¶97vii4129**
ECX	**VIII**	**07 08 57 35.5**	**31.93N**	**115.75W**	**9**	**3.1D**			**¶97viii0911**
ISC	**VIII**	**10 22 10 14**±6.4	**31.9N**±.24	**115.3W**±.21	**24**±48	3.9b		**9**	**2-38**
EIDC	VIII	10 22 10 12.8	31.9N	115.4W	0	3.5L,4.1b			¶97viii1466
ECX	VIII	10 22 10 17.0	32.52N	115.52W	10	4.1D			
ECX	Felt Mexicali Valley								
NEIC	**VIII**	**17 06 28 44.6**	**31.87N**	**115.43W**	**6**				**2-2**
ECX	VIII	17 06 28 45.9	31.87N	115.50W	10	3.1D			¶97viii2499
NEIC	M_L2.9(PAS), After PAS.								
ECX	**VIII**	**20 01 41 29.2**	**31.86N**	**115.51W**	**15**	**3.0D**			**¶97viii2892**
NEIC	VIII	20 01 41 27.6	31.84N	115.44W	6				
NEIC	M_L2.9(PAS), After PAS.								
ECX	**VIII**	**24 16 00 44.9**	**31.29N**	**116.13W**	**18**	**3.3D**			**¶97viii3561**
NEIC	**VIII**	**26 08 28 22.1**	**31.90N**	**115.78W**	**6**				**2-2**
ECX	VIII	26 08 28 22.7	31.93N	115.73W	8	3.2D			¶97viii3817
NEIC	M_L2.9(PAS), After PAS.								
ECX	**IX**	**03 00 55 32.5**	**31.30N**	**116.83W**	**17**	**3.0D**			**¶97ix0358**
ECX	**IX**	**05 01 37 55.3**	**31.28N**	**115.60W**	**16**	**3.1D**			**¶97ix0668**
ECX	**IX**	**09 05 28 22.9**	**31.99N**	**115.70W**	**8**	**3.0D**			**¶97ix1326**
ISC	**IX**	**13 22 26 33**±3.0	**31.9N**±.20	**115.5W**±.12	**6**			**22**	**1-3**
NEIC	IX	13 22 26 30.3	31.70N	115.52W	6				¶97ix2042
ECX	IX	13 22 26 35.4	31.93N	115.61W	15	3.5D			
NEIC	M_L3.2(PAS) After PAS.								
ECX	**IX**	**15 19 17 56.0**	**31.74N**	**116.66W**	**9**	**3.1D**			**¶97ix2274**
ECX	**IX**	**17 09 26 19.1**	**31.26N**	**115.62W**	**14**	**3.0D**			**¶97ix2494**
ECX	**IX**	**29 00 33 43.9**	**31.63N**	**115.78W**	**17**	**3.0D**			**¶97ix4808**
ECX	**X**	**04 20 46 27.4**	**30.61N**	**115.80W**	**8**	**3.1D**			**¶97x0726**
ECX	**X**	**04 22 32 29.0**	**30.67N**	**115.78W**	**10**	**3.2D**			**¶97x0748**
ECX	**X**	**20 06 56 11.7**	**31.66N**	**115.86W**	**16**	**3.3D**			**¶97x3457**
ISC	**X**	**22 16 36 53**±2.3	**32.0N**±.17	**115.77W**±.081	**6**			**19**	**1-5**
NEIC	X	22 16 36 52.8	31.90N	115.80W	6				¶97x3849
NEIC	M_D3.5(ECX), M_L3.0(PAS), After PAS.								
NEIC	**X**	**24 09 24 40.1**	**31.89N**	**115.76W**	**6**				**2-2**
NEIC	M_L2.8(PAS), M_D2.8(ECX), After PAS.								¶97x4138
ECX	**XI**	**27 08 26 54.1**	**30.94N**	**115.50W**	**8**	**3.0D**			**¶97xi4832**
ECX	**XI**	**30 13 36 12.1**	**31.50N**	**116.38W**	**3**	**3.3D**			**¶97xi5417**
ISC	**XII**	**03 04 57 18**±2.9	**31.7N**±.22	**116.29W**±.093	**6**			**25**	**1-8**
NEIC	XII	03 04 57 21.0	31.88N	116.31W	6				¶97xii0365
ECX	XII	03 04 57 23	31.96N	116.25W	13	3.5D			
NEIC	M_L3.6(PAS), M_L3.6(GS). Felt, After PAS.								
ECX	Felt in Ensenada								
ISC	**XII**	**05 16 25 11**±12	**31.9N**±.39	**116.2W**±.17	**14**±63			**20**	**1-2**
NEIC	XII	05 16 25 11.5	31.93N	116.32W	6				¶97xii0953
ECX	XII	05 16 25 12.6	31.97N	116.25W	14	3.5D			
NEIC	M_L3.6(PAS), After PAS.								
ECX	Felt in Ensenada								
ISC	**XII**	**07 07 15 28**±4.3	**31.7N**±.30	**115.7W**±.13	**6**			**25**	**1-5**
NEIC	XII	07 07 15 28.4	31.73N	115.86W	6				¶97xii1645
ECX	XII	07 07 15 29	31.76N	115.84W	15	3.7D			
NEIC	M_L3.9(PAS), After PAS.								
ECX	**XII**	**08 05 41 37.3**	**31.24N**	**116.78W**	**15**	**3.6D**			**¶97xii1875**
ECX	**XII**	**13 00 21 06.7**	**31.24N**	**115.65W**	**12**	**3.3D**			**¶97xii2846**

(49) Gulf of California.

EIDC	**VII**	**28 09 49 20.5**	**25.5N**	**109.6W**	**0**	2.9b,3.2L			**7-128** ¶97vii4244
ISC	**VII**	**28 10 09 00.1**±.67	**25.59N**±.037	**109.66W**±.039	**56**±5.7	**5.0b,4.9s**		**219**	**4-140**
NEIC	VII	28 10 08 53.0	25.35N	109.64W	10	5.2b,5.0s			¶97vii4247
MOS	VII	28 10 08 55.5	26.0N	110.0W	10	5.6b,5.0s			
EIDC	VII	28 10 08 55.5	25.5N	109.5W	16	4.5b,4.8s			
HRVD	VII	28 10 09 00.4±.6	26.03N±.08	109.66W±.10	15				
MEX	VII	28 10 09 02.4	25.6N	109.4W	20	5.6D			
NEIC	Mw5.4(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c32; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.19±.07; $M_{\theta\theta}$−0.14±.11; $M_{\phi\phi}$1.33±.09; $M_{r\theta}$−0.10±.28; $M_{r\phi}$0.69±.34; $M_{\theta\phi}$0.30±.07. Principal Axes: T 1.55,Plg14°,Azm279°; N −0.15, Plg10°,Azm187°; P −1.39,Plg73°,Azm62°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S23°, δ33°,λ−71°. NP2:ϕ_S181°,δ59°,λ−102°.								
ISC	**VII**	**28 11 51 46**±6.5	**25.0N**±.62	**108.9W**±.22	**33**	3.4b		**4**	**6-47**
EIDC	VII	28 11 51 41.1	24.8N	109.1W	0	3.4L,3.3b			¶97vii4263
ISC	Poorly determined								
ISC	**X**	**07 03 46 21**±1.7	**24.3N**±.15	**108.5W**±.16	**10**	3.9b,2.5s		**9**	**2-47**
NEIC	X	07 03 46 11.6	23.50N	108.49W	10	3.3b			¶97x1175
EIDC	X	07 03 46 12.1	23.5N	108.5W	0	3.6L,3.3s			
NEIC	Poor solution.								
ISC	**X**	**13 12 58 01**±2.9	**27.1N**±.25	**111.2W**±.14	**10**	**3.8b**,3.4s		**13**	**7-44**
NEIC	X	13 12 58 00.7	27.17N	111.17W	10	4.0b			¶97x2225
EIDC	X	13 12 58 01.2	27.2N	111.2W	0	3.9b,3.3L			
NEIC	Poor solution.								
ISC	**XI**	**26 15 38 56.3**±.44	**29.78N**±.044	**113.80W**±.051	**10**	**4.9b,5.1s**		**129**	**4-144**
ECX	XI	26 15 38 51.4	29.83N	113.56W	12	4.9D			¶97xi4713
HRVD	XI	26 15 38 54.4±.6	29.38N±.06	113.80W±.06	15				
EIDC	XI	26 15 38 54.6	29.6N	114.3W	0	4.5b,5.1s			
NEIC	XI	26 15 38 54.9	29.70N	113.88W	10	5.1b,5.1s			
BJI	XI	26 15 38 57.9	29.70N	113.80W	10				
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c37; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.05; $M_{\theta\theta}$−1.25±.05; $M_{\phi\phi}$1.22±.07; $M_{r\theta}$−0.03±.23; $M_{r\phi}$0.21±.18; $M_{\theta\phi}$0.65±.07. Principal Axes: T 1.40,Plg8°,Azm284°; N 0.01, Plg81°,Azm125°; P −1.41,Plg3°,Azm14°. Best double couple: $M_0$1.4×10^{17}Nm, NP1:ϕ_S59°, δ82°,λ4°. NP2:ϕ_S329°,δ86°,λ172°.								
NEIC	Mw5.4(HRV)								
ISC	**XII**	**05 00 40 11**±5.5	**29.3N**±.23	**113.5W**±.16	**3**±24	**3.5b**		**12**	**4-80**
EIDC	XII	05 00 40 09.0±3.64	29.0N	113.7W	0	3.6b,3.8L			¶97xii0744
NEIC	XII	05 00 40 12.0	29.33N	113.46W	10				
EIDC	Error ellipse is semi−major=70.3km semi−minor=37.0km azimuth=8								
NEIC	Less reliable solution.								
EIDC	**XII**	**10 09 25 03.6**±7.22	**23.3N**	**107.8W**	**0**	3.7L,3.2b			**7-39** ¶97xii2326
EIDC	Error ellipse is semi−major=111.2km semi−minor=57.0km azimuth=153								

(50) North-Western Mexico.

ISC	**VII**	**14 20 46 27**±3.7	**30.2N**±.39	**110.2W**±.38	**33**	2.9b		**4**	**6-41**
EIDC	VII	14 20 46 22.4	29.9N	110.6W	0	3.5L,3.1b			¶97vii2202
ISC	Poorly determined								

(51) Off coast of Central Mexico.

EIDC	**X**	**20 14 11 40.2**	**21.9N**	**107.0W**	**141**	3.0b,3.7L			¶97x3513
ISC	**X**	**27 05 08 58**±2.6	**22.9N**±.26	**108.7W**±.32	**10**	**3.7b**		**10**	**2-92**
EIDC	X	27 05 08 59.3	23.1N	108.5W	0	3.8b,3.8L			¶97x4575
NEIC	X	27 05 09 00.3	23.30N	108.65W	10	3.7b			
NEIC	Poor solution.								
ISC	**XI**	**16 11 01 34**±1.6	**21.2N**±.17	**106.7W**±.19	**39**	**3.8b**		**17**	**2-51**
NEIC	XI	16 11 01 27.2	20.74N	106.35W	33	4.0b			¶97xi2638
EIDC	XI	16 11 01 28.7	21.3N	106.0W	0	3.5b			
MEX	XI	16 11 01 31.3	21.4N	106.8W	39	4.2D			
NEIC	Poor solution.								
ISC	**XII**	**27 21 20 28**±5.1	**22.2N**±.48	**108.0W**±.64	**33**	**3.4b**		**6**	**16-50**
EIDC	XII	27 21 20 34.9±7.60	22.9N	108.3W	24±7.1	3.3b,3.8L			¶97xii5352
EIDC	Error ellipse is semi−major=134.8km semi−minor=58.5km azimuth=145								

SEISMIC REGION 5. MEXICO-GUATEMALA AREA.

(53) Revilla Gigedo Islands region.

ISC	**VIII**	**03 17 16 53**±6.7	**19.8N**±.14	**109.3W**±.15	**26**±47	**4.0b,3.6s**		**30**	**11-70**
EIDC	VIII	03 17 16 49.8	19.6N	109.5W	0	4.1b,3.6L			¶97viii0386
NEIC	VIII	03 17 16 53.4	19.80N	109.32W	33	4.1b			
NEIC	Less reliable solution.								
ISC	**VIII**	**27 05 28 07.6**±.59	**19.55N**±.064	**108.89W**±.079	**10**	**4.3b,4.0s**		**84**	**11-122**
NEIC	VIII	27 05 28 06.6	19.54N	109.10W	10	3.9b			¶97viii3944
EIDC	VIII	27 05 28 06.7	19.5N	109.3W	0	4.2b,4.1s			
NEIC	Less reliable solution.								
ISC	**IX**	**18 19 35 49**±3.8	**18.6N**±.37	**108.7W**±.24	**10**	**3.7b**		**11**	**12-53**
EIDC	IX	18 19 35 46.3	18.3N	108.7W	0	3.7b,4.4L			¶97ix2703
NEIC	IX	18 19 35 51.0	18.91N	108.88W	10	3.8b			
NEIC	Poor solution.								
ISC	**IX**	**21 19 18 17**±1.8	**19.5N**±.18	**109.2W**±.11	**33**	**4.3b**		**44**	**11-122**
EIDC	IX	21 19 18 15.0	19.5N	108.9W	0	4.2b,4.6s			¶97ix3146
NEIC	IX	21 19 18 18.6	19.59N	109.15W	33	4.5b			
NEIC	Less reliable solution.								
EIDC	**X**	**15 02 02 00.1**	**18.8N**	**108.1W**	**0**	3.3b,3.9L			¶97x2533
ISC	**XI**	**22 06 16 39**±1.3	**19.4N**±.14	**108.5W**±.20	**33**	**3.9b**		**15**	**11-122**
EIDC	XI	22 06 16 34.8	19.3N	108.7W	0	3.8b,3.9L			¶97xi3817
NEIC	XI	22 06 16 38.5	19.41N	108.42W	33	4.2b			
NEIC	Less reliable solution.								
ISC	**XI**	**22 06 25 42**±1.1	**19.41N**±.068	**108.45W**±.060	**46**±9.4	**4.7b,4.9s**		**124**	**4-147**
EIDC	XI	22 06 25 36.2	19.3N	108.6W	0	4.4b,4.9s			¶97xi3820
NEIC	XI	22 06 25 39.8	19.38N	108.45W	33	4.9b,4.9s			
MEX	XI	22 06 25 39.9	19.5N	108.8W	32	5.1D			
HRVD	XI	22 06 25 43.0±.3	19.59N±.04	108.54W±.04	15				
NEIC	Mw5.5(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c37; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.19±.05; $M_{\theta\theta}$−1.44±.06; $M_{\phi\phi}$1.63±.08; $M_{r\theta}$−0.27±.21; $M_{r\phi}$−0.15±.19; $M_{\theta\phi}$−0.91±.05. Principal Axes: T 1.88,Plg2°,Azm75°; N −0.14, Plg79°,Azm176°; P −1.74,Plg11°,Azm344°. Best double couple: $M_0$1.8×10^{17}Nm, NP1: ϕ_S120°,δ81°,λ−174°. NP2:ϕ_S29°,δ84°,λ−9°.								
ISC	**XI**	**22 11 52 53**±1.7	**19.5N**±.17	**109.3W**±.14	**33**	**4.2b**		**38**	**11-87**
EIDC	XI	22 11 52 47.6	19.2N	109.2W	0	4.2b,3.5L			¶97xi3867
NEIC	XI	22 11 52 53.1	19.55N	109.22W	33	4.3b			
NEIC	Less reliable solution.								
ISC	**XII**	**14 18 37 52**±3.6	**19.6N**±.33	**108.7W**±.26	**33**	**3.8b**		**16**	**11-52**
EIDC	XII	14 18 37 46.7±5.84	18.8N	108.4W	32±7.2	3.8b,3.6L			¶97xii3178
EIDC	Error ellipse is semi−major=105.2km semi−minor=67.1km azimuth=141								
ISC	**XII**	**14 19 17 19**±1.3	**19.2N**±.13	**108.6W**±.20	**36**±1.4*	**4.0b**		**27**	**11-86**
NEIC	XII	14 19 17 18.5	19.19N	108.59W	33	4.2b			¶97xii3182
EIDC	XII	14 19 17 20.0±1.43	19.1N	108.7W	36±5.5	3.7b,3.7L			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=56.1km semi−minor=16.5km azimuth=62								

(54) Off coast of Jalisco, Mexico.

ISC	**VIII**	**10 07 56 19**±1.2	**18.6N**±.12	**106.99W**±.099	**33**	**3.8b**,3.5s		**31**	**3-53**
EIDC	VIII	10 07 56 13.9	18.4N	107.0W	0	3.8b,3.7L			¶97viii1371
NEIC	VIII	10 07 56 18.0	18.60N	106.83W	33	4.0b			
MEX	VIII	10 07 56 25.9	19.2N	106.8W	15	4.1D			
NEIC	Less reliable solution.								
ISC	**IX**	**05 07 49 38**±8.4	**18.4N**±.80	**107.5W**±.63	**21**	**3.5b**		**8**	**11-53**
EIDC	IX	05 07 49 43.7	18.8N	107.9W	21	3.3b,4.0L			¶97ix0713

ISC	**X**	**23 02 15 04**±3.5	**18.8N**±.20	**106.8W**±.21	**41**±30	**3.8b**	**26**	**3-53**	
EIDC	X	23 02 14 53.9	18.1N	107.0W	0	3.7b,4.0L			¶97x3910
MEX	X	23 02 15 02.4	18.7N	107.1W	15	4.4D			
NEIC	X	23 02 15 03.4	18.82N	106.81W	33	3.9b			
EIDC	LO CONF LocationLO CONF Depth								
NEIC	Less reliable solution.								

(55) Near coast of Jalisco, Mexico.

MEX	**VII**	**02 16 19 54.9**	**18.8N**	**104.3W**	**10**	**4.2D**			**¶97vii0265**
MEX	**XII**	**13 13 29 33.8**	**19.4N**	**105.1W**	**58**	**4.3b**			**¶97xii2951**

(56) Near coast of Michoacan, Mexico.

ISC	**VII**	**04 23 42 44**±4.2	**17.0N**±.33	**103.4W**±.21	**15**	3.8b	**7**	**3-46**	
MEX	VII	04 23 42 52.8	17.3N	103.0W	15	4.2D			**¶97vii0639**
ISC	**X**	**07 23 06 10**±1.1	**18.54N**±.092	**103.22W**±.086	**60**±9.5	**4.2b,3.8s**	**50**	**2-148**	
NEIC	X	07 23 06 05.4	18.38N	103.16W	33	4.1b			**¶97x1318**
MEX	X	07 23 06 08.4	18.3N	103.4W	7	4.8D			
EIDC	X	07 23 06 11.5	18.5N	103.2W	68	4.0b,4.0s			
NEIC	Less reliable solution.								
ISC	**X**	**18 04 55 19**±1.3	**17.74N**±.079	**102.98W**±.082	**60**±11	**4.4b,3.6s**	**66**	**1-149**	
NEIC	X	18 04 55 14.9	17.58N	102.99W	33	4.4b,3.6s			**¶97x3101**
EIDC	X	18 04 55 16.0	17.5N	103.2W	26	4.2b,3.9s			
MEX	X	18 04 55 16.1	17.6N	103.3W	17	4.6D			
ISC	**X**	**22 07 48 58**±5.5	**17.7N**±.33	**103.6W**±.40	**66**		**5**	**2-5**	
MEX	X	22 07 49 02.4	17.8N	103.4W	66	4.0D			**¶97x3770**
ISC	**X**	**25 13 35 15**±2.3	**17.9N**±.16	**102.8W**±.15	**16**		**15**	**1-5**	
NEIC	X	25 13 35 17.2	17.94N	102.71W	33				**¶97x4328**
MEX	X	25 13 35 17.7	17.7N	102.9W	16	4.3D			
NEIC	Single network solution.								
ISC	**X**	**28 22 43 20**±5.3	**18.2N**±.14	**103.6W**±.17	**21**±38	**3.9b**	**29**	**1-86**	
EIDC	X	28 22 43 16.7	17.9N	103.6W	0	4.3b,3.6s			**¶97x4827**
MEX	X	28 22 43 21.8	18.1N	103.7W	16	4.6D			
NEIC	X	28 22 43 22.5	18.38N	103.41W	33	4.0b			
NEIC	Less reliable solution.								
ISC	**X**	**28 23 08 40**±15	**18.0N**±.78	**104.0W**±.94	**18**		**8**	**2-5**	
MEX	X	28 23 08 41.7	17.9N	104.1W	18	4.1D			**¶97x4828**
ISC	**X**	**30 15 44 32**±11	**17.7N**±.31	**102.7W**±.83	**85**		**8**	**2-4**	
MEX	X	30 15 44 34.9	17.9N	102.7W	85	4.0D			**¶97x5063**
ISC	**XI**	**11 14 15 44**±3.2	**18.1N**±.21	**103.2W**±.27	**10**		**8**	**2-6**	
MEX	XI	11 14 15 50.6	18.3N	102.9W	10	4.0D			**¶97xi1804**
MEX	**XI**	**20 16 30 12.3**	**18.0N**	**103.0W**	**30**	**4.3D**			**¶97xi3494**
MEX	**XI**	**22 00 52 52.8**	**17.8N**	**103.8W**	**10**	**4.1D**			**¶97xi3767**
MEX	**XI**	**23 04 58 22.6**	**18.4N**	**103.6W**	**15**	**3.9D**			**¶97xi4037**

(57) Michoacan, Mexico.

MEX	**VII**	**04 10 45 51.1**	**19.4N**	**102.3W**	**80**	**3.9D**			**¶97vii0539**
ISC	**X**	**04 17 59 38.6**±.90	**18.60N**±.082	**102.53W**±.075	**58**		**18**	**1-6**	
MEX	X	04 17 59 40.4	18.6N	102.5W	58	4.3D			**¶97x0699**
ISC	**XI**	**08 08 33 40**±1.5	**18.4N**±.12	**102.8W**±.11	**69**±12	**3.8b**	**25**	**1-92**	
EIDC	XI	08 08 33 40.1	18.3N	102.4W	65	3.6b			**¶97xi1236**
MEX	XI	08 08 33 40.1	18.5N	102.9W	117	4.3D			

(58) Near coast of Guerrero, Mexico.

MEX	**VII**	**03 03 48 58.2**	**17.0N**	**99.8W**	**10**	**3.3D**			**¶97vii0351**
MEX	**VII**	**09 01 21 15.5**	**17.5N**	**101.5W**	**11**	**3.2D**			**¶97vii1265**
ISC	**VII**	**11 22 23 31.7**±.93	**16.76N**±.093	**99.70W**±.052	**10**	**3.9b**,3.5s	**23**	**0-57**	
EIDC	VII	11 22 23 27.7	16.3N	100.0W	0	3.4s,3.5L			**¶97vii1734**
MEX	VII	11 22 23 34.4	16.8N	99.7W	10	4.5D			
ISC	**VII**	**12 23 15 28**±4.3	**16.2N**±.36	**99.2W**±.16	**13**		**6**	**1-4**	
MEX	VII	12 23 15 31.6	16.3N	99.3W	13	3.9D			**¶97vii1885**
ISC	**VII**	**15 01 26 20**±1.2	**16.4N**±.10	**98.63W**±.089	**36**±9.0	**4.0b**,3.4s	**44**	**0-130**	
MEX	VII	15 01 26 19.8	16.4N	98.7W	11	4.5D			**¶97vii2229**
NEIC	VII	15 01 26 29.1	17.48N	97.49W	108	4.0b			
EIDC	VII	15 01 26 34.7	18.4N	96.5W	108	3.6b,3.3s			
NEIC	Poor solution.								
MEX	**VII**	**15 13 21 45.5**	**16.9N**	**100.2W**	**9**	**3.3D**			**¶97vii2309**
ISC	**VII**	**16 07 31 55**±3.0	**16.5N**±.24	**99.8W**±.26	**25**±25		**7**	**0-3**	
MEX	VII	16 07 31 57.4	16.6N	99.8W	9	3.8D			**¶97vii2402**
MEX	**VII**	**16 17 13 46.7**	**16.1N**	**99.6W**	**15**	**3.8D**			**¶97vii2473**
MEX	**VII**	**17 01 20 26.3**	**16.9N**	**99.5W**	**23**	**3.5D**			**¶97vii2526**
MEX	**VII**	**18 11 00 09.7**	**16.2N**	**98.6W**	**20**	**3.8D**			**¶97vii2728**
ISC	**VII**	**19 14 22 08.9**±.83	**16.34N**±.040	**98.19W**±.032	**31**±5.5	**5.5b,6.3s**	**392**	**0-155**	
EIDC	VII	19 14 22 02.7	15.9N	98.3W	0	4.7b,6.4s			**¶97vii2888**
MEX	VII	19 14 22 04.2	15.9N	98.3W	5	5.3D			
MOS	VII	19 14 22 05.4	15.9N	98.2W	33	6.1b,6.4s			
NEIC	VII	19 14 22 08.7	16.33N	98.22W	33	5.7b,6.3s			
BJI	VII	19 14 22 09.7	16.30N	98.20W	15	7.1s			
HRVD	VII	19 14 22 18.3±.1	15.86N±.01	98.26W±.01	15				
NEIC	Mw6.9(GS), Me6.0(GS). Felt.								
NEIC	Radiated energy from the USGS moment tensor solution: 2.3±0.4×10^{13}Nm/15								
NEIC	Mw 6.7 (HRV). Ms 6.1 (BRK). Felt in Guerrero and Oaxaca. Also felt at Mexico City. Mo=1.5×10^{19}Nm (PPT). COMMENT: Complex event observed on broadband displacement seismograms.								
NEIC	Moment tensor solution: s33, scale 10^{19}Nm; M_{rr}0.88; $M_{\theta\theta}$−1.04; $M_{\phi\phi}$0.16; $M_{r\theta}$2.17; $M_{r\phi}$−0.87; $M_{\theta\phi}$0.27. Depth 4km; Principal axes: T 2.45,Plg56°,Azm27°; N 0.19,Plg5°, Azm291°; P −2.64,Plg34°,Azm197°. Best double couple: $M_0$2.5×10^{19}Nm; NP1:ϕ_S268°,δ12°, λ67°. NP2:ϕ_S111°,δ79°,λ95°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c111; Mantle waves: s42,c99; Half duration: 4s9. Moment tensor: Scale 10^{18}Nm; M_{rr}5.93±.03; $M_{\theta\theta}$−4.92±.03; $M_{\phi\phi}$−1.01±.04; $M_{r\theta}$9.39±.15; $M_{r\phi}$−4.63±.15; $M_{\theta\phi}$1.38±.03. Principal Axes: T 12.2,Plg59°,Azm29°; N −0.7,Plg3°,Azm294°; P −11.6,Plg31°,Azm202°. Best double couple: $M_0$1.2×10^{19}Nm, NP1:ϕ_S282°,δ14°,λ78°. NP2:ϕ_S115°,δ76°,λ93°.								
MEX	**VII**	**19 15 50 28.7**	**16.5N**	**98.5W**	**10**	**3.9D**			**¶97vii2909**
ISC	**VII**	**19 20 27 02**±3.0	**16.1N**±.27	**98.3W**±.11	**9**		**8**	**2-3**	
MEX	VII	19 20 27 01.4	15.8N	98.2W	9	4.0D			**¶97vii2949**
ISC	**VII**	**20 03 40 22**±3.7	**16.0N**±.24	**98.20W**±.090	**21**±15	**4.2b**	**35**	**0-142**	
MEX	VII	20 03 40 21.7	15.9N	98.2W	10	4.2D			**¶97vii2999**
NEIC	VII	20 03 40 24.0	16.17N	98.21W	33	4.2b			
EIDC	VII	20 03 40 48.8	16.9N	98.8W	203	3.6b			
NEIC	Poor solution.								
MEX	**VII**	**20 05 06 00.8**	**16.0N**	**98.3W**	**10**	**4.3D**			**¶97vii3019**
ISC	**VII**	**20 06 35 05**±1.5	**16.04N**±.090	**98.15W**±.084	**45**±11	**4.1b,**3.4s	**46**	**2-131**	
MEX	VII	20 06 34 57.1	15.3N	98.5W	22	4.5D			**¶97vii3033**
EIDC	VII	20 06 35 00.0	16.0N	98.1W	0	4.0b,3.4s			
NEIC	VII	20 06 35 03.5	16.02N	98.19W	33	4.2b			
NEIC	Less reliable solution.								
ISC	**VII**	**20 10 09 39**±5.2	**16.1N**±.30	**98.1W**±.13	**8**±19		**8**	**0-3**	
MEX	VII	20 10 09 35.7	15.9N	98.2W	8	4.1D			**¶97vii3069**
MEX	**VII**	**20 17 35 28.6**	**16.5N**	**98.5W**	**21**	**4.0D**			**¶97vii3126**
ISC	**VII**	**21 01 41 11**±1.9	**17.4N**±.13	**101.2W**±.15	**11**		**8**	**1-4**	
MEX	VII	21 01 41 11.0	17.3N	101.4W	11	3.9D			**¶97vii3171**
MEX	**VII**	**21 07 31 03.9**	**16.5N**	**98.5W**	**14**	**3.9D**			**¶97vii3213**
ISC	**VII**	**22 06 27 28**±5.7	**18.0N**±.13	**101.1W**±.52	**16**		**5**	**2-3**	
MEX	VII	22 06 27 35.9	18.0N	100.7W	16	3.7D			**¶97vii3334**
ISC	**VII**	**22 17 43 39**±1.6	**16.02N**±.078	**98.18W**±.053	**22**±9.8	**4.7b,4.1s**	**129**	**0-147**	
NEIC	VII	22 17 43 40.2	16.00N	98.15W	33	4.8b,4.1s			**¶97vii3404**
MEX	VII	22 17 43 40.3	15.9N	98.2W	15	4.5D			
EIDC	VII	22 17 43 44.7	16.1N	98.5W	59	4.2b,4.3s			
ISC	**VII**	**23 07 58 36**±3.1	**16.0N**±.12	**98.13W**±.069	**20**±21	**4.2b,**3.1s	**39**	**2-59**	
MEX	VII	23 07 58 29.4	15.2N	98.4W	15	4.4D			**¶97vii3498**
EIDC	VII	23 07 58 34.5	16.1N	98.0W	0	3.9b,3.3L			
NEIC	VII	23 07 58 38.0	16.12N	98.16W	33	4.3b			
NEIC	Less reliable solution.								
ISC	**VII**	**24 07 17 41**±8.9	**17.0N**±.26	**100.6W**±.52	**9**±22		**11**	**0-4**	
MEX	VII	24 07 17 44.2	17.0N	100.5W	10	4.0D			**¶97vii3638**
MEX	**VII**	**24 13 40 21.7**	**16.1N**	**98.3W**	**16**	**3.8D**			**¶97vii3676**
ISC	**VII**	**27 13 18 56**±3.1	**16.0N**±.26	**98.24W**±.091	**43**±14	**3.8b**	**18**	**2-59**	
EIDC	VII	27 13 18 43.2	15.0N	97.4W	0	3.4b,3.6L			**¶97vii4113**
NEIC	VII	27 13 18 46.5	14.87N	97.99W	33	4.0b			
MEX	VII	27 13 18 52.7	15.6N	98.3W	20	4.1D			
NEIC	Poor solution.								
ISC	**VII**	**27 13 46 11**±2.8	**16.2N**±.25	**98.02W**±.097	**5**		**8**	**2-4**	
MEX	VII	27 13 46 09.4	15.9N	98.5W	5	3.9D			**¶97vii4116**
ISC	**VII**	**30 23 01 41**±1.9	**16.6N**±.16	**99.62W**±.096	**10**		**10**	**0-3**	
MEX	VII	30 23 01 45.0	16.6N	99.7W	15	3.8D			**¶97vii4645**
NEIC	VII	30 23 01 46.5	17.00N	99.90W	10				
NEIC	Single network solution.								
ISC	**VIII**	**01 14 48 01.7**±.90	**16.92N**±.078	**99.00W**±.081	**61**±9.1	**3.8b**	**23**	**1-58**	
EIDC	VIII	01 14 47 41.8	15.2N	98.3W	0	3.8b,3.6L			**¶97viii0080**
MEX	VIII	01 14 48 04.1	17.0N	99.0W	16	4.3D			
ISC	**VIII**	**12 02 49 36**±5.8	**16.2N**±.42	**99.7W**±.25	**18**		**6**	**1-3**	
MEX	VIII	12 02 49 38.4	16.2N	99.7W	18	3.9D			**¶97viii1667**
ISC	**VIII**	**14 19 25 44**±2.4	**16.9N**±.27	**100.1W**±.19	**14**±18		**16**	**0-3**	
MEX	VIII	14 19 25 43.3	16.8N	100.2W	6	4.1D			**¶97viii2103**
ISC	**VIII**	**15 12 45 11**±1.1	**16.07N**±.099	**98.23W**±.060	**5**	**3.5b**	**26**	**0-59**	
EIDC	VIII	15 12 44 58.2	15.1N	95.9W	0	3.6b,3.5L			**¶97viii2221**
MEX	VIII	15 12 45 13.7	16.2N	98.2W	5	4.4D			
ISC	**VIII**	**16 10 01 52**±2.4	**16.7N**±.19	**99.64W**±.077	**5**		**12**	**0-3**	
MEX	VIII	16 10 01 53.4	16.5N	99.7W	5	4.1D			**¶97viii2348**
ISC	**VIII**	**16 11 58 43**±1.5	**16.2N**±.12	**99.23W**±.086	**4**	3.6b,3.4s	**22**	**1-58**	
EIDC	VIII	16 11 58 26.9	14.7N	97.7W	0	3.7b,3.4s			**¶97viii2364**
MEX	VIII	16 11 58 46.7	16.3N	99.2W	4	4.3D			
ISC	**VIII**	**17 11 56 58**±2.2	**16.5N**±.18	**99.47W**±.089	**16**		**11**	**1-3**	
MEX	VIII	17 11 56 58.3	16.3N	99.3W	16	4.3D			**¶97viii2536**
MEX	**VIII**	**17 15 48 51.7**	**16.8N**	**100.2W**	**5**	**3.7D**			**¶97viii2559**
ISC	**VIII**	**18 23 44 08.6**±.97	**16.96N**±.060	**100.32W**±.062	**28**±6.4	**4.1b**	**50**	**0-84**	
MEX	VIII	18 23 44 04.8	16.7N	100.6W	5	4.7D			**¶97viii2729**
EIDC	VIII	18 23 44 07.3	17.2N	100.1W	0	4.1b,3.2L			
NEIC	VIII	18 23 44 10.6	17.25N	100.16W	33	4.0b			
ISC	**VIII**	**18 23 52 23**±4.4	**16.5N**±.23	**100.7W**±.24	**5**		**7**	**1-4**	
MEX	VIII	18 23 52 27.5	16.6N	100.5W	5	3.7D			**¶97viii2731**
ISC	**VIII**	**19 18 27 06**±3.0	**16.5N**±.15	**100.3W**±.12	**19**±21		**21**	**1-4**	
MEX	VIII	19 18 27 09.7	16.6N	100.4W	10	4.4D			**¶97viii2853**
MEX	**VIII**	**25 03 10 59.9**	**16.3N**	**100.0W**	**10**	**3.8D**			**¶97viii3634**
ISC	**VIII**	**25 05 15 21**±1.8	**16.1N**±.11	**98.06W**±.071	**27**±9.2	**4.4b,3.5s**	**56**	**0-83**	
EIDC	VIII	25 05 15 17.4	16.0N	98.0W	0	4.3b,3.5s			**¶97viii3649**
MEX	VIII	25 05 15 19.1	16.0N	98.4W	5	4.7D			
NEIC	VIII	25 05 15 20.8	16.07N	98.07W	33	4.5b			
NEIC	Less reliable solution.								
ISC	**VIII**	**25 13 05 43**±1.6	**16.9N**±.14	**99.75W**±.071	**3**		**10**	**0-3**	
MEX	VIII	25 13 05 43.9	16.7N	99.9W	3	3.9D			**¶97viii3691**
MEX	**VIII**	**25 22 21 11.9**	**16.0N**	**99.8W**	**5**	**3.9D**			**¶97viii3748**
ISC	**VIII**	**26 14 43 33**±2.9	**16.2N**±.12	**99.13W**±.085	**29**±22	**3.8b**	**25**	**1-58**	
MEX	VIII	26 14 43 34.6	16.3N	99.1W	16	4.3D			**¶97viii3864**
NEIC	VIII	26 14 43 35.3	16.64N	98.73W	33	4.2b			
EIDC	VIII	26 14 43 35.7	16.6N	98.8W	27	3.7b,4.1L			
NEIC	Poor solution.								
ISC	**VIII**	**27 00 13 28**±1.0	**16.99N**±.065	**99.54W**±.068	**58**±7.3	**4.5b,3.9s**	**99**	**1-149**	
NEIC	VIII	27 00 13 24.9	17.01N	99.38W	33	5.0b			**¶97viii3920**
EIDC	VIII	27 00 13 25.5	16.9N	99.7W	23	4.3b,4.0s			
MEX	VIII	27 00 13 26.1	16.8N	99.9W	28	4.6D			
NEIC	Less reliable solution.								
MEX	**VIII**	**27 01 02 30.0**	**16.7N**	**99.9W**	**15**	**3.7D**			**¶97viii3922**
MEX	**VIII**	**27 02 47 23.8**	**16.7N**	**99.8W**	**4**	**3.8D**			**¶97viii3929**
ISC	**VIII**	**27 08 38 17**±3.1	**16.3N**±.29	**99.2W**±.15	**18**		**4**	**1-3**	
MEX	VIII	27 08 38 21.0	16.4N	99.1W	18	3.9D			**¶97viii3959**
ISC	Poorly determined								
ISC	**VIII**	**29 19 55 22**±2.6	**16.4N**±.23	**99.06W**±.092	**5**		**6**	**1-3**	
MEX	VIII	29 19 55 26.4	16.5N	99.1W	5	3.8D			**¶97viii4372**
ISC	**IX**	**02 07 02 14**±1.3	**17.9N**±.11	**101.6W**±.10	**26**±17		**17**	**0-5**	
MEX	IX	02 07 02 15.7	17.9N	101.7W	15	4.2D			**¶97ix0232**
ISC	**IX**	**03 20 17 52**±1.7	**16.7N**±.13	**99.69W**±.076	**7**		**15**	**0-3**	
MEX	IX	03 20 17 54.0	16.7N	99.7W	7	4.3D			**¶97ix0477**
ISC	**IX**	**05 03 32 03**±1.1	**16.2N**±.12	**98.54W**±.077	**33**	**4.1b,**4.8s	**44**	**1-130**	
EIDC	IX	05 03 31 55.9	15.7N	98.7W	0	4.0b,3.4L			**¶97ix0683**
MEX	IX	05 03 31 58.2	15.9N	99.0W	16	4.5D			
NEIC	IX	05 03 32 01.5	16.12N	98.56W	33	4.1b			
NEIC	Poor solution.								
MEX	**IX**	**05 03 53 19.3**	**16.4N**	**99.4W**	**15**	**3.8D**			**¶97ix0687**
MEX	**IX**	**06 23 27 02.4**	**16.2N**	**98.5W**	**16**	**3.5D**			**¶97ix0986**
ISC	**IX**	**11 07 06 05**±2.1	**16.1N**±.16	**99.24W**±.096	**16**±18		**17**	**1-4**	
MEX	IX	11 07 06 08.1	16.1N	99.2W	16	4.2D			**¶97ix1645**
ISC	**IX**	**12 01 37 57**±1.2	**16.2N**±.11	**99.26W**±.070	**17**	**4.1b**	**31**	**1-58**	
MEX	IX	12 01 37 58.3	16.1N	99.4W	17	4.4D			**¶97ix1760**
EIDC	IX	12 01 38 45.9	18.6N	99.1W	323	3.3b			
ISC	**IX**	**14 12 00 10**±2.4	**16.6N**±.24	**98.5W**±.12	**17**		**4**	**1-3**	
MEX	IX	14 12 00 14.1	16.6N	98.6W	17	3.8D			**¶97ix2119**
ISC	Poorly determined								
ISC	**IX**	**14 19 34 13**±2.9	**16.1N**±.22	**98.3W**±.11	**11**		**11**	**0-4**	
MEX	IX	14 19 34 12.4	16.1N	98.3W	11	4.0D			**¶97ix2159**
ISC	**IX**	**15 06 42 29.2**±.81	**17.00N**±.069	**99.39W**±.059	**4**		**16**	**1-3**	
MEX	IX	15 06 42 31.6	17.0N	99.4W	4	3.9D			**¶97ix2205**
ISC	**IX**	**15 15 38 25**±1.0	**16.36N**±.056	**98.33W**±.046	**33**±6.4	**5.0b,4.2s**	**156**	**0-148**	
MEX	IX	15 15 38 19.9	15.9N	98.6W	6	4.8D			**¶97ix2259**
EIDC	IX	15 15 38 23.0	16.5N	98.3W	0	4.7b,4.3s			
BJI	IX	15 15 38 23.5	16.20N	98.40W	33				
NEIC	IX	15 15 38 23.5	16.24N	98.38W	33	5.2b			

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**IX**	**15 15 40 30.4**±.67	**16.36N**±.086	**98.52W**±.096	**33**	**4.6b**	**51**	**1-141**
EIDC	IX	15 15 40 28.3	16.4N	98.4W	0	4.4b		¶97ix2260
NEIC	IX	15 15 40 30.3	16.37N	98.55W	33	4.8b		
NEIC	Less reliable solution.							
MEX	**IX**	**17 05 59 44.6**	**16.8N**	**100.1W**	**10**	**3.5D**		¶97ix2473
ISC	**IX**	**21 13 35 42**±1.6	**17.9N**±.10	**101.8W**±.11	**30**±16		**17**	**0-5**
NEIC	IX	21 13 35 42.2	17.84N	101.84W	33			¶97ix3107
MEX	IX	21 13 35 43.4	17.7N	101.9W	31	4.4D		
NEIC	Less reliable solution.							
ISC	**IX**	**21 23 28 27**±1.2	**17.0N**±.12	**99.66W**±.080	**10**		**9**	**0-3**
MEX	IX	21 23 28 26.2	16.6N	99.5W	10	3.9D		¶97ix3185
NEIC	IX	21 23 28 27.7	16.90N	99.73W	33			
NEIC	Single network solution.							
ISC	**IX**	**22 22 07 28**±1.3	**17.6N**±.10	**101.3W**±.12	**41**		**10**	**0-4**
MEX	IX	22 22 07 29.1	17.6N	101.5W	41	4.1D		¶97ix3332
ISC	**IX**	**23 04 04 41**±3.5	**16.4N**±.26	**99.6W**±.13	**16**		**14**	**1-4**
MEX	IX	23 04 04 40.7	16.3N	99.6W	16	4.2D		¶97ix3370
ISC	**IX**	**23 05 14 48**±11	**16.2N**±.65	**99.9W**±.55	**16**		**10**	**1-4**
MEX	IX	23 05 14 47.2	16.1N	99.8W	16	3.8D		¶97ix3378
ISC	**IX**	**26 14 31 21**±1.4	**17.76N**±.091	**101.4W**±.13	**44**		**13**	**0-5**
MEX	IX	26 14 31 22.1	17.7N	101.6W	44	4.3D		¶97ix4041
ISC	**IX**	**29 14 37 55**±6.7	**16.7N**±.49	**101.0W**±.26	**18**		**5**	**1-3**
MEX	IX	29 14 37 57.4	16.6N	101.0W	18	3.9D		¶97ix4965
ISC	**IX**	**30 07 25 01**±2.6	**17.0N**±.26	**99.8W**±.27	**35**		**4**	**0-2**
MEX	IX	30 07 25 01.0	16.9N	99.7W	35	3.5D		¶97ix5158
ISC	Poorly determined							
ISC	**IX**	**30 19 16 15**±2.2	**16.7N**±.14	**100.4W**±.11	**27**±11		**16**	**0-4**
MEX	IX	30 19 16 15.6	16.7N	100.5W	7	4.3D		¶97ix5298
MEX	**X**	**04 12 16 44.7**	**17.3N**	**101.9W**	**21**	**3.9D**		¶97x0637
ISC	**X**	**05 21 01 20**±2.8	**16.3N**±.22	**99.5W**±.13	**12**		**9**	**1-3**
MEX	X	05 21 01 22.9	16.2N	99.6W	12	3.6D		¶97x0934
MEX	**X**	**06 00 58 19.0**	**16.2N**	**99.4W**	**16**	**3.9D**		¶97x0960
MEX	**X**	**09 20 27 22.2**	**16.9N**	**100.1W**	**44**	**3.9D**		¶97x1635
ISC	**X**	**09 23 49 41**±6.4	**16.7N**±.48	**100.2W**±.28	**37**		**6**	**0-3**
MEX	X	09 23 49 44.7	16.9N	100.1W	37	3.4D		¶97x1660
ISC	**X**	**12 21 32 06**±2.6	**16.3N**±.21	**98.2W**±.11	**9**		**9**	**2-4**
MEX	X	12 21 32 09.5	16.3N	98.3W	9	4.3D		¶97x2110
ISC	**X**	**14 16 23 29**±1.9	**16.7N**±.16	**99.6W**±.10	**25**±18		**17**	**0-3**
MEX	X	14 16 23 31.6	16.8N	99.6W	5	4.2D		¶97x2443
ISC	**X**	**16 13 21 40.0**±.63	**16.19N**±.070	**98.66W**±.067	**17**	**4.5b,3.7s**	**61**	**1-150**
MEX	X	16 13 21 40.7	16.0N	99.0W	17	4.6D		¶97x2842
NEIC	X	16 13 21 41.7	16.18N	98.65W	33	4.6b,3.7s		
EIDC	X	16 13 21 43.4	16.3N	98.7W	30	4.2b,3.8s		
MEX	**X**	**21 11 47 30.8**	**16.1N**	**98.7W**	**16**	**4.0D**		¶97x3653
ISC	**X**	**21 17 38 09.3**±.99	**16.95N**±.085	**100.01W**±.074	**16**		**16**	**0-3**
MEX	X	21 17 38 06.7	16.6N	99.9W	16	4.0D		¶97x3688
MEX	**X**	**25 09 36 09.9**	**16.9N**	**101.1W**	**24**	**3.6D**		¶97x4307
ISC	**X**	**26 10 26 50**±1.6	**16.0N**±.14	**99.31W**±.092	**16**	**3.8b**	**25**	**1-58**
MEX	X	26 10 26 51.1	15.9N	99.4W	16	4.4D		¶97x4450
NEIC	X	26 10 26 51.9	16.06N	99.27W	33	4.0b		
EIDC	X	26 10 27 29.8	17.8N	98.8W	263	3.1b		
NEIC	Poor solution.							
ISC	**X**	**28 06 04 10**±3.2	**16.3N**±.20	**99.6W**±.12	**17**±22		**17**	**1-4**
MEX	X	28 06 04 13.0	16.3N	99.7W	6	4.5D		¶97x4718
ISC	**X**	**31 00 31 18**±3.3	**16.1N**±.25	**98.9W**±.17	**16**	3.4b	**17**	**1-58**
MEX	X	31 00 31 12.1	15.6N	98.4W	16	4.4D		¶97x5111
EIDC	X	31 00 31 20.5	16.0N	100.2W	0	3.4b,3.7L		
ISC	**XI**	**05 16 19 06**±3.8	**16.0N**±.30	**98.8W**±.10	**16**		**12**	**1-4**
MEX	XI	05 16 19 09.8	16.1N	98.8W	16	4.1D		¶97xi0828
ISC	**XI**	**09 13 45 41**±1.9	**16.3N**±.16	**98.46W**±.079	**9**		**12**	**0-4**
MEX	XI	09 13 45 43.2	16.3N	98.3W	9	4.1D		¶97xi1451
MEX	**XI**	**10 04 30 22.6**	**16.6N**	**99.8W**	**6**	**3.5D**		¶97xi1558
ISC	**XI**	**12 01 09 54**±1.7	**16.5N**±.14	**99.1W**±.11	**20**		**10**	**1-3**
MEX	XI	12 01 09 56.8	16.5N	99.0W	20	4.1D		¶97xi1912
ISC	**XI**	**15 06 06 31**±1.4	**17.7N**±.15	**101.3W**±.15	**26**		**5**	**0-3**
MEX	XI	15 06 06 31.9	17.8N	101.6W	26	4.1D		¶97xi2428
ISC	**XI**	**17 23 43 37**±2.2	**16.7N**±.22	**98.7W**±.11	**17**		**4**	**1-2**
MEX	XI	17 23 43 38.3	16.5N	98.6W	17	3.8D		¶97xi2878
ISC	Poorly determined							
ISC	**XI**	**22 04 41 20**±7.3	**17.0N**±.61	**101.1W**±.12	**31**		**10**	**2-4**
MEX	XI	22 04 41 17.0	16.7N	101.3W	31	4.1D		¶97xi3808
MEX	**XI**	**22 13 03 40.3**	**16.4N**	**100.4W**	**22**	**3.9D**		¶97xi3883
ISC	**XI**	**23 10 15 59**±1.7	**16.4N**±.20	**98.3W**±.11	**31**±17		**12**	**0-3**
MEX	XI	23 10 16 01.0	16.5N	98.4W	8	3.9D		¶97xi4091
ISC	**XII**	**04 12 12 51**±7.3	**16.9N**±.43	**101.3W**±.46	**27**		**6**	**1-4**
MEX	XII	04 12 12 54.2	17.0N	101.3W	27	3.7D		¶97xii0609
ISC	Poorly determined							
ISC	**XII**	**04 16 45 55**±2.6	**16.0N**±.13	**98.08W**±.081	**10**±14		**19**	**0-4**
MEX	XII	04 16 45 56.8	16.0N	98.2W	3	4.1D		¶97xii0652
ISC	**XII**	**16 11 44 07**±1.4	**16.33N**±.063	**98.71W**±.049	**30**±8.9	**4.9b**,6.0s	**113**	**1-150**
MEX	XII	16 11 44 02.8	16.0N	99.1W	4	4.4D		¶97xii3445
NEIC	XII	16 11 44 03.1	16.19N	98.84W	10	5.1b		
EIDC	XII	16 11 44 03.6±1.01	16.3N	98.8W	0	4.5b,4.8L		
EIDC	Error ellipse is semi−major=33.1km semi−minor=15.8km azimuth=58							
ISC	**XII**	**16 11 48 32**±1.3	**16.20N**±.054	**98.81W**±.041	**19**±8.1	**5.3b,5.6s**	**205**	**1-153**
MEX	XII	16 11 48 29.6	15.7N	99.0W	16	4.7D		¶97xii3446
BJI	XII	16 11 48 29.8	16.10N	98.80W	10	6.4s		
NEIC	XII	16 11 48 29.8	16.11N	98.85W	10	5.5b,5.5s		
MOS	XII	16 11 48 30.6	16.3N	98.8W	10	5.7b,5.6s		
EIDC	XII	16 11 48 30.6±.85	16.3N	98.7W	0	4.9b,5.7s		
HRVD	XII	16 11 48 37.8±.2	16.43N±.02	98.73W±.03	16			
NEIC	Mw6.0(GS), Mw6.0(HRV).							
NEIC	Moment tensor solution: s30, scale 10^{18}Nm; M_{rr}1.20; $M_{\theta\theta}$−1.01; $M_{\phi\phi}$−0.20; $M_{r\theta}$0.25; $M_{r\theta}$0.39; $M_{\theta\phi}$0.51. Depth 18km; Principal axes: T 1.37,Plg71°,Azm299°; N −0.11,Plg19°, Azm115°; P −1.26,Plg1°,Azm205°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S314°,δ47°, λ117°. NP2:ϕ_S97°,δ49°,λ64°.							
EIDC	Error ellipse is semi−major=28.0km semi−minor=14.7km azimuth=56							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c79; Mantle waves: s4,c5; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}5.30±.16; $M_{\theta\theta}$−5.92±.17; $M_{\phi\phi}$0.62±.23; $M_{r\theta}$8.09±.51; $M_{r\phi}$−2.79±.42; $M_{\theta\phi}$0.50±.16. Principal Axes: T 10.1,Plg61°,Azm28°; N 0.4,Plg8°,Azm285°; P −10.4,Plg28°,Azm190°. Best double couple: $M_0$1.0×10^{18}Nm, NP1:ϕ_S260°,δ18°,λ64°. NP2:ϕ_S107°,δ74°,λ98°.							
ISC	**XII**	**16 14 49 18**±1.5	**16.0N**±.12	**99.07W**±.072	**10**		**22**	**1-4**
NEIC	XII	16 14 49 18.1	16.08N	99.05W	10			¶97xii3467
MEX	XII	16 14 49 21.5	16.0N	99.0W	16	4.3D		
NEIC	Mp4.3(UNM), Single network solution.							
MEX	**XII**	**18 19 51 19.1**	**16.5N**	**100.0W**	**2**	**4.1D**		¶97xii3814
ISC	**XII**	**20 01 56 14**±4.0	**16.1N**±.32	**99.1W**±.15	**24**		**6**	**1-3**
MEX	XII	20 01 56 18.3	16.2N	99.1W	24	3.9D		¶97xii4071
ISC	**XII**	**21 18 20 30**±2.5	**16.4N**±.11	**98.61W**±.086	**30**±15	**4.3b**,3.5s	**59**	**0-80**
MEX	XII	21 18 20 27.8	16.1N	98.9W	16	4.3D		¶97xii4288
NEIC	XII	21 18 20 29.2	16.30N	98.64W	33	4.2b		
EIDC	XII	21 18 20 33.1±6.41	16.4N	98.5W	48±55.8	4.1b,3.5s		
NEIC	Mp4.5(UNM).							
EIDC	Error ellipse is semi−major=48.9km semi−minor=25.1km azimuth=36							
ISC	**XII**	**22 05 22 06.1**±.36	**17.31N**±.048	**101.04W**±.034	**10**	**5.1b,5.0s**	**202**	**1-150**
BJI	XII	22 05 22 05.6	17.30N	101.00W	10			¶97xii4358
NEIC	XII	22 05 22 05.6	17.30N	101.04W	10	5.1b,5.0s		
MEX	XII	22 05 22 07.8	17.1N	101.2W	5	4.6D		
EIDC	XII	22 05 22 11.8±4.96	17.3N	101.0W	42±41.6	4.5b,5.2s		
NEIC	Mp4.7(UNM)							
NEIC	Felt at Mexico City.							
EIDC	Error ellipse is semi−major=28.1km semi−minor=20.1km azimuth=31							
ISC	**XII**	**22 05 56 45**±1.4	**17.24N**±.095	**101.11W**±.082	**21**±11	**3.8b**	**25**	**0-55**
EIDC	XII	22 05 56 39.7±7.70	17.6N	97.6W	0	3.9b,3.1L		¶97xii4363
NEIC	XII	22 05 56 44.1	17.32N	101.08W	10	3.8b		
MEX	XII	22 05 56 46.0	17.2N	101.2W	13	4.4D		
EIDC	Error ellipse is semi−major=138.1km semi−minor=86.7km azimuth=5							
NEIC	Mp4.4(UNM), Less reliable solution.							
MEX	**XII**	**22 06 19 39.0**	**17.1N**	**101.2W**	**5**	**3.8D**		¶97xii4367
ISC	**XII**	**22 06 46 29**±2.8	**17.2N**±.16	**101.1W**±.24	**69**±25	3.1b	**15**	**1-46**
NEIC	XII	22 06 46 26.8	17.04N	101.08W	100			¶97xii4373
MEX	XII	22 06 46 29.9	17.3N	101.2W	7	4.1D		
NEIC	Mp4.2(UNM), Poor solution.							
ISC	**XII**	**24 01 26 50**±1.4	**16.1N**±.12	**98.69W**±.063	**5**	**4.2b**	**37**	**1-62**
MEX	XII	24 01 26 49.0	15.8N	98.7W	5	4.4D		¶97xii4683
NEIC	XII	24 01 26 50.7	16.17N	98.70W	10	4.1b		
EIDC	XII	24 01 27 11.5	16.7N	98.8W	148±101.1	3.6b		
NEIC	Mp4.5(UNM), Less reliable solution.							
EIDC	Origin time error = 10.56Error ellipse is semi−major=112.0km semi−minor=30.7km azimuth=68							

(59) Guerrero, Mexico.

ISC	**VII**	**01 20 29 58.4**±.89	**17.27N**±.094	**99.7W**±.12	**42**±19	3.6b	**8**	**0-46**
MEX	VII	01 20 30 00.0	17.3N	99.7W	41	3.6D		¶97vii0138
MEX	**VII**	**05 04 34 52.7**	**17.0N**	**99.9W**	**28**	**2.6D**		¶97vii0678
ISC	**VII**	**15 10 47 02**±1.3	**17.0N**±.12	**99.7W**±.13	**36**		**5**	**0-3**
MEX	VII	15 10 47 01.7	16.8N	99.6W	36	4.0D		¶97vii2293
ISC	**VII**	**19 07 34 40.1**±.87	**17.47N**±.057	**100.13W**±.057	**72**±6.6	**4.4b**	**113**	**1-145**
NEIC	VII	19 07 34 35.2	17.36N	100.20W	33	4.6b,3.8s		¶97vii2843
MEX	VII	19 07 34 37.0	17.2N	100.6W	51	4.9D		
EIDC	VII	19 07 34 37.5	17.4N	100.1W	34	4.0b,3.9s		
NEIC	Felt.							
ISC	**VII**	**19 08 25 44**±1.3	**17.4N**±.12	**100.4W**±.11	**25**±20	**3.4b**	**19**	**0-57**
MEX	VII	19 08 25 42.4	17.2N	100.7W	43	4.1D		¶97vii2847
EIDC	VII	19 08 25 56.6	17.4N	105.5W	39	3.2b,3.2L		
ISC	**VII**	**21 13 13 08.0**±.92	**17.22N**±.094	**100.2W**±.12	**46**±9.1	**3.9b**	**22**	**0-57**
EIDC	VII	21 13 13 02.0	17.0N	99.9W	0	3.7b,3.6L		¶97vii3247
NEIC	VII	21 13 13 05.2	17.04N	100.24W	33	4.1b		
MEX	VII	21 13 13 09.6	17.3N	100.5W	12	4.1D		
NEIC	Less reliable solution.							
ISC	**VII**	**24 02 31 08**±1.2	**17.2N**±.15	**100.2W**±.14	**7**±24		**12**	**0-3**
MEX	VII	24 02 31 04.8	17.0N	100.6W	10	3.9D		¶97vii3600
ISC	**VII**	**29 09 49 50.2**±.84	**18.16N**±.071	**100.69W**±.071	**75**±7.3	**4.1b**	**43**	**1-129**
MEX	VII	29 09 49 52.4	18.2N	100.7W	51	4.4D		¶97vii4417
NEIC	VII	29 09 49 53.3	18.33N	100.50W	100	4.0b		
EIDC	VII	29 09 49 55.7	18.4N	100.5W	104	3.9b,3.3s		
NEIC	Less reliable solution.							
ISC	**VIII**	**02 21 28 01**±2.1	**17.2N**±.10	**100.5W**±.17	**59**		**15**	**1-4**
MEX	VIII	02 21 28 02.6	17.2N	100.5W	59	4.3D		¶97viii0262
ISC	**VIII**	**04 01 46 10**±1.9	**17.44N**±.087	**100.5W**±.19	**5**		**7**	**0-3**
MEX	VIII	04 01 46 10.2	17.3N	100.8W	5	4.0D		¶97viii0442
ISC	**VIII**	**05 14 21 33**±1.8	**17.1N**±.10	**99.7W**±.16	**10**±26		**9**	**0-3**
MEX	VIII	05 14 21 30.7	17.0N	100.4W	26	4.1D		¶97viii0679
ISC	**VIII**	**06 02 58 03**±5.2	**17.3N**±.14	**100.7W**±.51	**36**		**8**	**0-3**
MEX	VIII	06 02 58 06.2	17.3N	100.5W	36	4.0D		¶97viii0750
ISC	**VIII**	**10 16 00 00**±1.7	**18.0N**±.13	**99.7W**±.33	**74**±35		**10**	**0-2**
MEX	VIII	10 16 00 01.7	18.1N	99.9W	53	3.8D		¶97viii1421
ISC	**VIII**	**12 00 28 22.3**±.93	**18.44N**±.083	**101.61W**±.090	**94**±9.3	**3.9b**	**24**	**2-80**
EIDC	VIII	12 00 28 07.7	17.4N	103.6W	0	3.8b,3.6L		¶97viii1653
NEIC	VIII	12 00 28 11.3	17.55N	103.31W	33	4.0b		
MEX	VIII	12 00 28 24.5	18.5N	101.6W	17	4.2D		
NEIC	Poor solution.							
ISC	**VIII**	**16 01 54 42**±1.4	**18.08N**±.084	**101.60W**±.098	**55**±35		**17**	**0-5**
MEX	VIII	16 01 54 44.8	18.1N	101.5W	44	4.4D		¶97viii2304
ISC	**VIII**	**18 03 26 36**±1.5	**18.03N**±.093	**101.5W**±.13	**92**±12	**3.9b**	**28**	**0-127**
MEX	VIII	18 03 26 35.6	18.0N	101.8W	50	4.5D		¶97viii2613
NEIC	VIII	18 03 26 40.4	18.26N	101.32W	118	3.8b		
EIDC	VIII	18 03 26 42.9	18.4N	101.1W	119	3.6b,2.9s		
NEIC	Less reliable solution.							
ISC	**VIII**	**21 13 13 11**±1.1	**17.35N**±.088	**100.1W**±.12	**33**		**7**	**1-4**
								¶97viii3098
ISC	**VIII**	**22 04 17 59**±1.2	**18.5N**±.12	**100.4W**±.14	**95**		**6**	**1-2**
MEX	VIII	22 04 18 01.1	18.6N	100.3W	95	3.8D		¶97viii3177
ISC	**VIII**	**26 05 44 50**±3.0	**17.4N**±.15	**100.9W**±.22	**10**		**9**	**1-3**
MEX	VIII	26 05 44 52.2	17.4N	100.9W	10	4.2D		¶97viii3794
MEX	**VIII**	**27 01 16 20.2**	**17.9N**	**100.1W**	**62**	**3.7D**		¶97viii3923
ISC	**VIII**	**31 09 45 50**±1.5	**18.3N**±.16	**101.6W**±.14	**100**		**7**	**1-3**
MEX	VIII	31 09 45 51.6	18.3N	101.6W	100	3.9D		¶97viii4633
ISC	**IX**	**08 14 25 07.2**±.78	**17.14N**±.070	**100.03W**±.079	**53**		**15**	**0-3**
MEX	IX	08 14 25 09.0	17.2N	100.1W	53	4.0D		¶97ix1235
MEX	**IX**	**08 21 48 26.7**	**17.7N**	**100.0W**	**18**	**3.4D**		¶97ix1285
ISC	**IX**	**13 07 22 01**±2.5	**18.0N**±.10	**99.9W**±.25	**77**±35		**7**	**1-3**
MEX	IX	13 07 22 01.9	18.0N	99.9W	71	3.8D		¶97ix1946
ISC	**IX**	**30 01 46 27**±1.2	**17.8N**±.11	**100.9W**±.11	**49**		**7**	**1-4**
MEX	IX	30 01 46 29.3	17.8N	100.9W	49	3.8D		¶97ix5093
MEX	**IX**	**30 13 47 46.5**	**17.5N**	**99.6W**	**8**	**3.7D**		¶97ix5242
ISC	**X**	**05 05 59 04**±1.1	**18.01N**±.065	**101.5W**±.10	**12**		**13**	**0-5**
MEX	X	05 05 59 04.5	18.0N	101.7W	12	4.3D		¶97x0812
ISC	**X**	**05 12 59 57.1**±.82	**17.38N**±.070	**100.0W**±.13	**22**		**12**	**0-3**
MEX	X	05 12 59 58.8	17.3N	99.8W	22	3.9D		¶97x0866
ISC	**X**	**06 13 27 07**±3.7	**17.4N**±.26	**99.9W**±.61	**12**±53		**9**	**1-3**
MEX	X	06 13 27 02.2	17.2N	100.5W	75	4.0D		¶97x1057
ISC	**X**	**12 02 43 11.4**±.76	**18.50N**±.062	**101.79W**±.063	**81**±5.3	**4.4b**	**88**	**1-148**
MEX	X	12 02 43 13.3	18.5N	101.8W	63	4.5D		¶97x1976
NEIC	X	12 02 43 15.2	18.83N	101.49W	101	4.6b		
EIDC	X	12 02 43 15.9	18.7N	101.6W	98	4.0b,3.7s		

ISC	**X**	**31 12 09 17**±1.5	**17.1N**±.12	**100.04W**±.072	**38**±28		**21**	**0-4**	
NEIC	X	31 12 09 16.8	17.08N	100.03W	33				¶97x5175
MEX	X	31 12 09 18.9	17.1N	100.1W	28	4.3D			
ISC	**XI**	**01 07 50 34.1**±.91	**17.89N**±.088	**100.79W**±.094	**57**		**11**	**1-3**	
MEX	XI	01 07 50 36.0	17.9N	100.8W	57	4.1D			¶97xi0042
ISC	**XI**	**01 16 54 28**±11	**18.7N**±.61	**99.2W**±.33	**14**±16		**5**	**0-1**	
MEX	XI	01 16 54 24.1	18.4N	99.5W	4	3.5D			¶97xi0105
ISC		Poorly determined							
MEX	**XI**	**21 17 18 25.3**	**17.2N**	**100.4W**	**8**	**3.8D**			¶97xi3692
MEX	**XI**	**22 15 41 35.5**	**17.0N**	**99.3W**	**20**	**3.8D**			¶97xi3904
ISC	**XII**	**11 03 10 15**±2.1	**17.9N**±.12	**98.8W**±.22	**36**		**13**	**1-2**	
NEIC	XII	11 03 10 15.2	17.91N	98.85W	33				¶97xii2476
MEX	XII	11 03 10 17.4	17.9N	98.9W	36	3.9D			
NEIC		MD3.9(UNM), Less reliable solution.							
ISC	**XII**	**11 18 29 44.9**±.58	**18.31N**±.054	**100.99W**±.061	**74**±7.5	**4.0b**	**45**	**1-149**	
NEIC	XII	11 18 29 45.0	18.34N	100.95W	75	4.0b			¶97xii2621
MEX	XII	11 18 29 47.1	18.3N	101.0W	50	4.3D			
EIDC	XII	11 18 29 54.2	18.7N	101.2W	126±82.6	3.7b			
NEIC		MD4.3(UNM).							
EIDC		Origin time error = 10.87Error ellipse is semi−major=79.7km semi−minor=53.4km azimuth=111							
ISC	**XII**	**13 10 31 38.0**±.90	**18.23N**±.060	**101.52W**±.079	**10**		**19**	**1-4**	
NEIC	XII	13 10 31 38.8	18.15N	101.53W	10				¶97xii2932
MEX	XII	13 10 31 40.0	18.1N	101.5W	7	4.1D			
NEIC		MD4.1(UNM).							
ISC	**XII**	**26 01 00 37**±3.2	**17.8N**±.15	**100.0W**±.31	**95**±48		**9**	**1-2**	
NEIC	XII	26 01 00 36.2	17.95N	100.09W	10				¶97xii5019
MEX	XII	26 01 00 38.1	17.8N	100.0W	83	3.7D			
NEIC		MD3.8(UNM), Poor solution.							

(60) Oaxaca, Mexico.

MEX	**VII**	**04 02 51 27.0**	**16.3N**	**95.4W**	**146**	**3.4D**			¶97vii0483
ISC	**VII**	**05 10 56 22**±1.3	**16.5N**±.19	**94.1W**±.11	**149**		**7**	**1-6**	
MEX	VII	05 10 56 23.6	16.6N	94.1W	149	3.9D			¶97vii0718
ISC	**VII**	**09 15 54 22.0**±.77	**17.08N**±.086	**95.48W**±.070	**123**±8.1	**4.3b**	**38**	**1-59**	
EIDC	VII	09 15 54 01.4	16.0N	95.2W	0	4.2b,4.3L			¶97vii1361
NEIC	VII	09 15 54 04.5	16.04N	95.39W	33	4.4b			
MEX	VII	09 15 54 24.5	17.0N	95.6W	127	4.5D			
NEIC		Less reliable solution.							
ISC	**VII**	**21 10 56 49.0**±.92	**17.1N**±.18	**95.14W**±.096	**56**±27	**3.8b**	**19**	**2-59**	
NEIC	VII	21 10 56 41.4	16.75N	94.69W	33	4.0b			¶97vii3233
MEX	VII	21 10 56 49.6	16.5N	95.4W	111	4.4D			
EIDC	VII	21 10 57 13.7	18.5N	96.8W	0	3.7b,3.6L			
NEIC		Poor solution.							
ISC	**VII**	**22 18 01 27**±2.6	**16.6N**±.24	**97.95W**±.083	**72**±9.6	**4.1b**	**45**	**1-58**	
MEX	VII	22 18 01 17.0	15.8N	98.6W	10	4.4D			¶97vii3408
NEIC	VII	22 18 01 32.8	16.99N	98.01W	100	4.2b			
EIDC	VII	22 18 01 37.2	17.2N	98.0W	131	3.8b,3.6s			
NEIC		Less reliable solution.							
ISC	**VII**	**22 19 02 03**±3.4	**16.1N**±.28	**97.8W**±.13	**10**		**7**	**1-4**	
MEX	VII	22 19 01 54.6	15.6N	98.4W	10	4.2D			¶97vii3416
ISC	**VII**	**28 21 16 51.5**±.88	**16.3N**±.10	**95.49W**±.059	**19**	**3.9b**	**27**	**1-81**	
EIDC	VII	28 21 16 45.9	15.2N	96.7W	0	3.9b,3.6L			¶97vii4328
NEIC	VII	28 21 16 49.0	15.97N	95.50W	33	4.2b			
MEX	VII	28 21 16 54.8	16.1N	95.6W	19	4.5D			
NEIC		Less reliable solution.							
ISC	**VII**	**28 21 45 41**±3.4	**17.9N**±.15	**97.4W**±.11	**106**±52		**10**	**1-3**	
MEX	VII	28 21 45 43.0	17.9N	97.5W	96	4.0D			¶97vii4332
ISC	**VIII**	**03 17 19 47**±9.5	**16.2N**±.80	**97.8W**±.23	**16**		**6**	**1-4**	
MEX	VIII	03 17 19 43.9	15.7N	98.0W	16	4.2D			¶97viii0387
ISC	**VIII**	**15 07 43 42**±2.8	**17.6N**±.23	**95.5W**±.22	**95**		**7**	**1-4**	
MEX	VIII	15 07 43 43.9	17.6N	95.5W	95	4.1D			¶97viii2182
ISC	**VIII**	**21 10 56 49**±1.3	**16.8N**±.30	**95.2W**±.14	**85**±62		**8**	**1-5**	
NEIC	VIII	21 10 56 48.6	16.61N	95.34W	100				¶97viii3088
NEIC		Single network solution.							
ISC	**VIII**	**26 21 49 12**±8.2	**16.4N**±.71	**97.9W**±.24	**10**		**6**	**1-3**	
MEX	VIII	26 21 49 14.1	16.2N	98.0W	10	4.1D			¶97viii3909
ISC	**IX**	**01 00 16 49**±2.4	**16.1N**±.23	**97.8W**±.14	**5**		**16**	**0-4**	
MEX	IX	01 00 16 47.1	15.8N	98.2W	5	4.1D			¶97ix0004
MEX	**IX**	**09 12 33 18.4**	**17.9N**	**95.5W**	**17**	**3.7D**			¶97ix1376
ISC	**IX**	**14 00 38 27**±1.1	**17.7N**±.11	**97.86W**±.099	**16**		**6**	**1-2**	
MEX	IX	14 00 38 30.8	17.8N	97.8W	16	3.7D			¶97ix2052
ISC	**IX**	**23 14 46 06**±1.2	**16.2N**±.10	**96.8W**±.10	**11**		**11**	**1-4**	
NEIC	IX	23 14 46 05.4	15.97N	97.00W	33				¶97ix3435
MEX	IX	23 14 46 07.5	16.1N	96.9W	11	4.4D			
NEIC		Single network solution.							
ISC	**IX**	**27 13 43 59**±1.2	**17.0N**±.11	**96.09W**±.087	**115**±24		**13**	**1-4**	
MEX	IX	27 13 43 53.9	16.7N	95.7W	150	4.6D			¶97ix4367
NEIC	IX	27 13 43 59.8	17.06N	96.09W	100				
NEIC		Less reliable solution.							
ISC	**IX**	**29 03 21 29**±1.3	**16.9N**±.22	**95.0W**±.16	**126**±42		**15**	**2-6**	
MEX	IX	29 03 21 27.5	16.9N	94.7W	119	4.6D			¶97ix4852
NEIC	IX	29 03 21 27.7	16.93N	95.03W	150				
NEIC		Poor solution.							
ISC	**X**	**01 05 05 59**±7.0	**16.5N**±.39	**96.8W**±.37	**10**		**11**	**1-4**	
MEX	X	01 05 05 50.6	16.1N	96.0W	10	4.5D			¶97x0031
ISC	**X**	**02 12 11 23**±7.0	**16.0N**±.48	**96.9W**±.33	**64**		**6**	**1-4**	
MEX	X	02 12 11 26.2	16.2N	96.9W	64	3.9D			¶97x0279
ISC	**X**	**02 12 50 00**±3.9	**16.1N**±.33	**97.7W**±.14	**16**		**7**	**1-4**	
MEX	X	02 12 50 04.3	16.2N	97.7W	16	3.8D			¶97x0286
ISC	**X**	**14 04 24 03**±5.7	**17.7N**±.17	**95.7W**±.56	**133**		**7**	**1-4**	
MEX	X	14 04 23 56.4	18.0N	94.9W	133	4.1D			¶97x2337
MEX	**X**	**21 22 04 45.6**	**16.6N**	**95.8W**	**98**	**4.4D**			¶97x3707
MEX	**X**	**28 03 32 23.8**	**17.4N**	**95.4W**	**16**	**4.1D**			¶97x4696
MEX	**XI**	**06 02 10 36.9**	**16.1N**	**97.9W**	**10**	**4.4D**			¶97xi0905
ISC	**XI**	**08 09 07 07.0**±.83	**17.67N**±.081	**95.31W**±.072	**121**±7.7	**4.0b**	**35**	**1-134**	
NEIC	XI	08 09 07 04.6	17.69N	95.21W	100	3.9b			¶97xi1243
MEX	XI	08 09 07 09.3	17.9N	95.3W	126	4.5D			
EIDC	XI	08 09 07 10.4	17.9N	95.2W	135	3.7b			
NEIC		Less reliable solution.							
MEX	**XI**	**15 13 39 34.9**	**17.2N**	**95.1W**	**117**	**4.0D**			¶97xi2483
MEX	**XI**	**29 18 08 26.5**	**17.2N**	**96.9W**	**71**	**3.7D**			¶97xi5303
ISC	**XII**	**28 19 48 20**±2.0	**16.9N**±.14	**95.2W**±.24	**121**±14	3.3b	**8**	**1-48**	
EIDC	XII	28 19 47 53.2	14.9N	95.4W	0	3.4b,3.9L			¶97xii5488
NEIC	XII	28 19 48 18.3	17.01N	94.86W	100	3.3b			
MEX	XII	28 19 48 22.9	17.0N	95.4W	126	4.0D			
EIDC		Origin time error = 13.25Error ellipse is semi−major=327.3km semi−minor=136.7km azimuth=36							
NEIC		MD4.0(UNM), Poor solution.							
MEX	**XII**	**31 11 12 44.1**	**16.0N**	**98.0W**	**16**	**3.8D**			¶97xii5884

(61) Chiapas, Mexico.

ISC	**VII**	**16 03 17 53**±2.2	**17.2N**±.23	**94.4W**±.15	**112**±49		**8**	**1-5**	
MEX	VII	16 03 17 54.4	17.4N	94.4W	121	4.1D			¶97vii2382
ISC	**VII**	**17 06 00 21**±2.3	**17.4N**±.23	**94.8W**±.14	**125**±49		**6**	**1-5**	
MEX	VII	17 06 00 21.3	17.6N	94.7W	136	4.1D			¶97vii2553
ISC	**VIII**	**07 18 27 19**±1.5	**16.51N**±.091	**93.1W**±.13	**94**±16	**4.3b**	**45**	**2-135**	
NEIC	VIII	07 18 27 25.6	16.73N	93.07W	149	4.0b			¶97viii0988
EIDC	VIII	07 18 27 25.7	16.5N	93.4W	140	4.0b			
MEX	VIII	07 18 27 29.6	16.5N	93.8W	89	4.7D			
NEIC		Less reliable solution.							
ISC	**VIII**	**12 04 56 22**±8.4	**17.4N**±.39	**94.5W**±.63	**121**		**6**	**1-5**	
MEX	VIII	12 04 56 25.1	17.4N	94.5W	121	4.1D			¶97viii1681
ISC	**VIII**	**17 06 32 54**±9.6	**17.3N**±.48	**94.4W**±.71	**130**		**5**	**2-5**	
MEX	VIII	17 06 32 58.5	17.5N	94.6W	130	4.0D			¶97viii2500
ISC	**VIII**	**21 13 17 06.3**±.91	**17.46N**±.084	**94.44W**±.083	**152**±9.1	**4.0b**	**36**	**1-134**	
NEIC	VIII	21 13 17 06.0	17.46N	94.35W	148	4.2b			¶97viii3100
MEX	VIII	21 13 17 07.7	17.4N	94.5W	157	4.6D			
EIDC	VIII	21 13 17 08.0	17.5N	94.4W	151	3.6b			
NEIC		Less reliable solution.							
ISC	**IX**	**04 03 08 37**±6.3	**16.9N**±.19	**93.6W**±.55	**195**		**9**	**2-6**	
MEX	IX	04 03 08 40.2	17.2N	93.7W	195	4.2D			¶97ix0539
ISC	**IX**	**26 22 14 04.2**±.65	**17.54N**±.063	**94.69W**±.061	**136**±6.7	**4.1b**	**62**	**1-142**	
NEIC	IX	26 22 14 05.0	17.53N	94.76W	150	4.4b			¶97ix4159
MEX	IX	26 22 14 08.3	17.5N	94.9W	128	4.4D			
EIDC	IX	26 22 14 08.7	17.7N	94.6W	155	3.8b			
ISC	**X**	**02 14 52 20**±8.1	**16.1N**±.73	**92.5W**±.92	**24**		**4**	**1-7**	
MEX	X	02 14 52 21.1	16.2N	92.3W	24	4.3D			¶97x0301
ISC		Poorly determined							
ISC	**XI**	**04 03 38 34**±1.1	**16.1N**±.23	**94.0W**±.18	**45**		**7**	**2-6**	
MEX	XI	04 03 38 35.8	16.0N	94.1W	45	4.4D			¶97xi0568
MEX	**XI**	**17 18 18 08.2**	**17.3N**	**94.5W**	**94**	**4.1D**			¶97xi2843
ISC	**XII**	**02 10 54 59.1**±.56	**17.53N**±.060	**94.29W**±.061	**167**±6.5	**4.1b**	**52**	**1-135**	
NEIC	XII	02 10 54 57.6	17.50N	94.05W	150	4.5b			¶97xii0228
MEX	XII	02 10 55 00.2	17.5N	94.4W	185	4.5D			
EIDC	XII	02 10 55 06.3±2.90	17.6N	94.1W	217±26.2	3.7b			
EIDC		Error ellipse is semi−major=30.4km semi−minor=14.8km azimuth=67							
ISC	**XII**	**20 12 41 48**±1.3	**17.9N**±.16	**94.2W**±.13	**117**	3.2b	**8**	**3-47**	
MEX	XII	20 12 41 53.4	17.4N	94.5W	117	4.1D			¶97xii4113

(62) Mexico-Guatemala border region.

MEX	**VII**	**04 02 52 43.6**	**15.4N**	**93.0W**	**112**	**4.0D**			¶97vii0484
ISC	**VII**	**06 06 02 30**±10	**15.1N**±.29	**91.4W**±.81	**48**		**6**	**1-8**	
MEX	VII	06 06 02 32.5	15.2N	91.5W	48	4.4D			¶97vii0847
ISC	**IX**	**05 20 51 52**±1.0	**15.78N**±.073	**92.53W**±.086	**121**±9.9	**4.2b**	**62**	**1-144**	
NEIC	IX	05 20 51 54.5	15.87N	92.46W	145	4.3b			¶97ix0799
EIDC	IX	05 20 51 57.1	16.0N	92.3W	148	3.9b,3.3s			
MEX	IX	05 20 52 00.6	15.9N	93.1W	55	4.8D			
ISC	**IX**	**29 21 49 47**±1.5	**15.1N**±.40	**92.7W**±.23	**84**	4.4b	**8**	**0-50**	
MEX	IX	29 21 49 44.8	15.7N	92.6W	84	4.6D			¶97ix5034
ISC	**XI**	**02 13 03 22**±1.8	**15.71N**±.094	**92.9W**±.13	**60**±18	**3.9b**	**34**	**1-146**	
NEIC	XI	02 13 03 25.6	15.73N	92.87W	100	4.0b			¶97xi0264
EIDC	XI	02 13 03 28.4	15.7N	92.9W	109	3.6b			
MEX	XI	02 13 03 29.3	15.5N	93.6W	33	4.6D			
NEIC		Less reliable solution.							

(63) Off coast of Mexico.

ISC	**VII**	**02 07 18 52**±1.8	**9.9N**±.20	**104.5W**±.32	**10**	**3.9b**	**9**	**19-62**	
NEIC	VII	02 07 18 51.6	9.86N	104.49W	10	4.2b			¶97vii0198
EIDC	VII	02 07 18 54.4	9.9N	104.4W	15	3.7b,3.3L			
NEIC		Poor solution.							
ISC	**VIII**	**07 11 21 26.5**±.99	**8.0N**±.14	**104.2W**±.24	**10**	**4.2b**	**24**	**21-145**	
NEIC	VIII	07 11 21 26.7	8.06N	104.22W	10	4.3b			¶97viii0934
EIDC	VIII	07 11 21 27.1	8.1N	104.1W	0	4.2b,3.9s			
NEIC		Less reliable solution.							
ISC	**VIII**	**07 11 23 40**±1.4	**9.6N**±.21	**101.3W**±.26	**33**	**3.8b**	**15**	**20-95**	
EIDC	VIII	07 11 23 52.9	9.5N	101.3W	149	3.4b			¶97viii0935
ISC	**VIII**	**07 13 39 15**±1.4	**8.5N**±.20	**103.1W**±.24	**10**	**4.2b**	**26**	**21-146**	
NEIC	VIII	07 13 39 13.1	8.25N	103.28W	10	4.4b			¶97viii0947
EIDC	VIII	07 13 39 20.9	8.4N	103.4W	55	3.8b			
NEIC		Poor solution.							
ISC	**VIII**	**07 13 42 28**±1.0	**8.3N**±.14	**103.2W**±.20	**10**	**4.3b,4.3s**	**31**	**21-146**	
EIDC	VIII	07 13 42 26.7	8.3N	103.3W	0	4.5s,4.0b			¶97viii0949
NEIC	VIII	07 13 42 27.1	8.26N	103.32W	10	4.6b			
NEIC		Less reliable solution.							
ISC	**VIII**	**07 14 05 54**±1.1	**8.8N**±.16	**103.4W**±.29	**10**	**4.1b,4.3s**	**25**	**20-145**	
NEIC	VIII	07 14 05 50.7	8.48N	103.58W	10	4.3b			¶97viii0950
EIDC	VIII	07 14 06 23.4	9.4N	102.8W	259	3.4b,4.3s			
NEIC		Poor solution.							
EIDC	**VIII**	**07 14 22 19.3**	**8.0N**	**103.0W**	**0**	**3.0b**		**21-64**	
									¶97viii0952
EIDC	**IX**	**21 06 57 24.6**	**17.0N**	**107.2W**	**0**	**3.3b**,3.4L		¶97ix3053	
ISC	**IX**	**26 08 50 19**±2.2	**8.8N**±.30	**103.4W**±.48	**10**	**4.2b,3.9s**	**10**	**26-123**	
EIDC	IX	26 08 50 18.8	8.8N	103.2W	0	4.0s,4.2b			¶97ix3926
NEIC	IX	26 08 50 20.9	8.72N	103.03W	33	4.2b			
NEIC		Poor solution.							
EIDC	**X**	**23 07 54 48.3**	**8.2N**	**104.3W**	**0**	**3.7b,3.6s**		¶97x3949	
EIDC		LO CONF Location							
ISC	**XI**	**09 12 53 06.3**±.79	**8.4N**±.11	**102.8W**±.16	**10**	**4.5b,4.2s**	**38**	**21-146**	
NEIC	XI	09 12 53 05.7	8.38N	102.89W	10	4.6b,4.1s			¶97xi1448
EIDC	XI	09 12 53 06.0	8.5N	102.9W	0	4.3b			
NEIC		Less reliable solution.							
EIDC	**XI**	**23 04 04 37.0**	**8.0N**	**105.1W**	**0**	**3.9b**		¶97xi4024	

(64) Off coast of Michoacan, Mexico.

ISC	**XI**	**02 23 12 06**±8.0	**15.1N**±.12	**104.4W**±.12	**10**±46	**4.5b,4.1s**	**67**	**5-151**	
EIDC	XI	02 23 12 08.6	15.1N	104.7W	16	4.1b,4.3s			¶97xi0356
NEIC	XI	02 23 12 09.4	15.13N	104.53W	33	4.5b,4.0s			
MEX	XI	02 23 12 17.6	15.5N	104.1W	33	4.5D			
ISC	**XII**	**10 06 36 44**±6.5	**15.4N**±.10	**104.27W**±.086	**13**±38	**4.6b,4.2s**	**68**	**6-151**	
EIDC	XII	10 06 36 44.3±.80	15.5N	104.2W	0	4.3b,4.3s			¶97xii2308
NEIC	XII	10 06 36 47.2	15.43N	104.22W	33	4.7b,4.2s			
EIDC		Error ellipse is semi−major=31.4km semi−minor=13.8km azimuth=63							

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
		(65) Off coast of Guerrero, Mexico.						
ISC	**VII**	**16 18 59 07**±8.5	**15.4N**±.70	**98.4W**±.17	**16**		**4**	**2-4**
MEX	VII	16 18 59 12.1	15.6N	98.4W	16	4.0D		¶97vii2479
ISC		Poorly determined						
ISC	**VII**	**19 14 54 42**±1.8	**15.3N**±.21	**98.2W**±.10	**16**	**4.2b**	**26**	**1-80**
MEX	VII	19 14 54 45.9	15.7N	98.4W	16	4.2D		¶97vii2892
EIDC	VII	19 14 54 46.1	16.0N	97.9W	0	4.1b		
NEIC	VII	19 14 54 50.2	16.11N	98.09W	33	4.1b		
NEIC		Poor solution.						
MEX	**VII**	**19 15 01 12.7**	**15.5N**	**98.3W**	**15**	**4.0D**		¶97vii2894
ISC	**VII**	**19 15 04 27**±2.2	**15.1N**±.21	**98.3W**±.13	**16**	**3.7b**	**18**	**2-59**
EIDC	VII	19 15 04 22.8	14.4N	99.1W	0	3.6b		¶97vii2896
MEX	VII	19 15 04 38.0	15.9N	98.4W	16	4.0D		
ISC	**VII**	**19 15 07 40**±3.3	**15.1N**±.30	**98.4W**±.15	**17**	3.6b	**11**	**2-49**
MEX	VII	19 15 07 46.9	15.8N	98.5W	17	4.0D		¶97vii2897
ISC	**VII**	**19 15 11 16**±4.8	**15.3N**±.36	**98.6W**±.31	**15**	3.6b	**7**	**2-48**
MEX	VII	19 15 11 01.2	14.6N	98.4W	15	4.1D		¶97vii2899
MEX	**VII**	**19 15 18 42.3**	**15.9N**	**98.4W**	**17**	**3.9D**		¶97vii2902
ISC	**VII**	**19 15 25 28**±4.3	**14.9N**±.35	**98.2W**±.16	**16**	3.5b	**12**	**3-49**
MEX	VII	19 15 25 37.5	15.5N	98.4W	16	4.3D		¶97vii2904
MEX	**VII**	**19 16 07 34.4**	**15.5N**	**98.7W**	**18**	**4.1D**		¶97vii2911
ISC	**VII**	**19 16 18 58**±3.8	**15.9N**±.30	**98.3W**±.13	**16**		**6**	**1-3**
MEX	VII	19 16 18 57.3	15.9N	98.4W	16	4.1D		¶97vii2915
ISC	**VII**	**19 17 40 51**±3.1	**15.84N**±.084	**98.11W**±.068	**27**±21	**4.4b,4.1s**	**91**	**2-142**
EIDC	VII	19 17 40 48.3	15.8N	98.2W	0	4.3b,4.2s		¶97vii2925
NEIC	VII	19 17 40 52.1	15.89N	98.06W	33	4.6b,4.1s		
MEX	VII	19 17 40 53.1	15.9N	98.6W	10	4.5D		
ISC	**VII**	**19 17 50 12**±6.7	**15.4N**±.54	**98.4W**±.16	**25**		**5**	**2-4**
MEX	VII	19 17 50 13.0	15.3N	98.4W	25	3.9D		¶97vii2926
MEX	**VII**	**19 18 03 27.3**	**15.4N**	**98.3W**	**16**	**4.0D**		¶97vii2930
ISC	**VII**	**19 18 27 21**±7.1	**15.7N**±.35	**98.3W**±.13	**29**±36	**3.9b**	**21**	**2-59**
EIDC	VII	19 18 27 15.0	15.9N	96.4W	0	3.9b,3.6L		¶97vii2934
MEX	VII	19 18 27 16.0	15.3N	98.6W	17	4.4D		
NEIC	VII	19 18 27 17.7	15.71N	96.83W	33	3.9b		
NEIC		Poor solution.						
ISC	**VII**	**19 19 29 21**±2.0	**15.4N**±.21	**98.27W**±.098	**16**	**4.2b**	**29**	**2-142**
EIDC	VII	19 19 29 19.5	16.0N	96.3W	0	3.9b		¶97vii2941
MEX	VII	19 19 29 25.3	15.8N	98.5W	16	4.1D		
NEIC	VII	19 19 29 26.3	15.80N	98.24W	33	4.2b		
NEIC		Less reliable solution.						
ISC	**VII**	**19 21 01 40**±7.2	**14.9N**±.55	**98.5W**±.15	**16**		**8**	**2-4**
MEX	VII	19 21 01 51.1	15.7N	98.4W	16	4.0D		¶97vii2955
MEX	**VII**	**19 21 18 11.7**	**15.9N**	**98.3W**	**19**	**4.0D**		¶97vii2958
MEX	**VII**	**19 21 25 30.9**	**15.4N**	**98.2W**	**16**	**4.2D**		¶97vii2959
ISC	**VII**	**19 22 39 45**±13	**15.4N**±.40	**98.3W**±.10	**11**±61	**4.1b**	**25**	**1-59**
EIDC	VII	19 22 39 41.5	15.2N	97.7W	0	3.7b		¶97vii2966
NEIC	VII	19 22 39 47.5	15.35N	98.36W	33	4.1b		
MEX	VII	19 22 39 50.3	15.8N	98.4W	10	4.1D		
NEIC		Poor solution.						
MEX	**VII**	**19 22 48 17.4**	**15.6N**	**98.1W**	**16**	**4.2D**		¶97vii2967
MEX	**VII**	**19 23 08 09.9**	**15.4N**	**98.3W**	**16**	**3.9D**		¶97vii2969
MEX	**VII**	**20 01 36 52.3**	**15.2N**	**98.5W**	**15**	**4.1D**		¶97vii2984
ISC	**VII**	**20 04 03 58**±3.8	**14.9N**±.31	**98.3W**±.15	**15**	3.6b	**13**	**3-26**
MEX	VII	20 04 04 06.7	15.5N	98.4W	15	4.2D		¶97vii3011
MEX	**VII**	**20 04 22 50.0**	**15.9N**	**98.6W**	**19**	**4.0D**		¶97vii3014
MEX	**VII**	**20 04 56 44.9**	**15.8N**	**98.2W**	**16**	**3.9D**		¶97vii3017
MEX	**VII**	**20 10 52 15.0**	**15.9N**	**98.1W**	**4**	**4.0D**		¶97vii3074
MEX	**VII**	**20 11 32 50.8**	**15.9N**	**98.2W**	**6**	**3.9D**		¶97vii3079
MEX	**VII**	**20 11 35 57.0**	**15.9N**	**98.1W**	**3**	**4.0D**		¶97vii3080
ISC	**VII**	**20 11 52 24**±3.6	**15.5N**±.27	**98.13W**±.079	**42**±15	**4.2b**	**44**	**2-80**
MEX	VII	20 11 52 15.5	15.0N	98.5W	15	4.4D		¶97vii3085
EIDC	VII	20 11 52 20.3	15.6N	98.1W	0	4.0b,3.2L		
NEIC	VII	20 11 52 27.1	15.97N	98.11W	33	4.2b		
NEIC		Poor solution.						
MEX	**VII**	**20 17 45 34.6**	**15.8N**	**98.3W**	**16**	**3.9D**		¶97vii3129
MEX	**VII**	**20 18 28 42.9**	**15.6N**	**98.4W**	**16**	**4.0D**		¶97vii3131
ISC	**VII**	**20 19 11 31**±7.4	**15.3N**±.58	**98.4W**±.16	**16**		**6**	**2-5**
MEX	VII	20 19 11 35.9	15.4N	98.4W	16	4.0D		¶97vii3137
MEX	**VII**	**20 22 19 59.8**	**15.6N**	**98.6W**	**15**	**4.1D**		¶97vii3151
MEX	**VII**	**21 03 24 10.1**	**15.4N**	**98.2W**	**16**	**3.9D**		¶97vii3182
ISC	**VII**	**21 04 42 03**±4.6	**15.9N**±.24	**98.2W**±.15	**13**±18	**4.2b**	**13**	**0-26**
NEIC	VII	21 04 42 02.0	15.61N	98.53W	33	4.1b		¶97vii3192
MEX	VII	21 04 42 04.7	15.9N	98.3W	10	4.4D		
NEIC		Poor solution.						
MEX	**VII**	**21 05 30 39.5**	**13.9N**	**99.2W**	**20**	**4.1D**		¶97vii3201
MEX	**VII**	**21 07 06 01.9**	**15.6N**	**98.4W**	**16**	**3.8D**		¶97vii3212
MEX	**VII**	**21 09 54 31.4**	**15.7N**	**98.2W**	**16**	**3.9D**		¶97vii3225
MEX	**VII**	**21 12 14 06.6**	**15.3N**	**98.4W**	**21**	**4.2D**		¶97vii3241
ISC	**VII**	**21 15 39 17**±10	**14.9N**±.81	**98.4W**±.18	**16**		**5**	**2-4**
MEX	VII	21 15 39 27.4	15.5N	98.4W	16	4.1D		¶97vii3257
ISC	**VII**	**22 04 11 11**±2.1	**14.9N**±.19	**98.3W**±.12	**33**	**3.9b**	**25**	**2-60**
MEX	VII	22 04 11 05.3	14.6N	98.4W	33	4.7D		¶97vii3326
EIDC	VII	22 04 11 07.0	14.7N	98.6W	0	3.4b,3.1L		
NEIC	VII	22 04 11 17.5	15.75N	98.02W	33	4.2b		
NEIC		Poor solution.						
ISC	**VII**	**22 07 28 55**±1.9	**15.9N**±.17	**98.3W**±.10	**15**	**4.0b**	**21**	**1-48**
EIDC	VII	22 07 28 33.0	13.4N	99.0W	0	3.9b,3.8L		¶97vii3338
MEX	VII	22 07 28 57.0	15.8N	98.3W	15	4.0D		
MEX	**VII**	**22 08 25 22.5**	**15.4N**	**98.3W**	**16**	**4.1D**		¶97vii3343
MEX	**VII**	**22 17 51 59.9**	**15.1N**	**98.2W**	**16**	**3.8D**		¶97vii3405
MEX	**VII**	**22 18 17 11.7**	**15.9N**	**98.2W**	**16**	**3.9D**		¶97vii3409
MEX	**VII**	**22 18 23 20.7**	**15.5N**	**98.3W**	**17**	**3.9D**		¶97vii3411
MEX	**VII**	**22 18 57 32.9**	**15.9N**	**98.4W**	**10**	**4.5D**		¶97vii3415
ISC	**VII**	**22 19 34 22**±1.5	**15.8N**±.14	**98.32W**±.093	**10**	**3.9b**	**17**	**1-59**
EIDC	VII	22 19 34 15.7	15.9N	95.2W	0	3.7b,3.4L		¶97vii3419
MEX	VII	22 19 34 25.5	16.1N	98.5W	10	4.3D		
ISC	**VII**	**22 19 38 46**±6.2	**14.8N**±.47	**98.4W**±.12	**20**		**15**	**3-7**
MEX	VII	22 19 38 54.5	15.2N	98.5W	20	4.4D		¶97vii3423
ISC	**VII**	**22 21 10 50**±4.4	**15.9N**±.36	**99.3W**±.17	**17**		**12**	**1-4**
MEX	VII	22 21 10 49.7	15.6N	99.5W	17	4.3D		¶97vii3432
MEX	**VII**	**23 06 26 59.9**	**15.6N**	**98.2W**	**16**	**3.7D**		¶97vii3489
MEX	**VII**	**23 08 19 28.5**	**15.6N**	**98.5W**	**16**	**4.0D**		¶97vii3503
ISC	**VII**	**23 10 31 06**±1.9	**15.8N**±.17	**98.61W**±.085	**16**		**11**	**1-4**
MEX	VII	23 10 31 09.2	16.0N	98.5W	16	3.9D		¶97vii3517
MEX	**VII**	**24 07 59 49.6**	**15.5N**	**98.3W**	**16**	**4.0D**		¶97vii3643
MEX	**VII**	**24 17 59 12.9**	**15.6N**	**98.2W**	**16**	**3.8D**		¶97vii3708
MEX	**VII**	**25 04 53 46.5**	**15.7N**	**98.5W**	**10**	**4.1D**		¶97vii3772
ISC	**VII**	**26 04 04 46**±9.5	**15.2N**±.77	**98.3W**±.18	**16**		**4**	**2-4**
MEX	VII	26 04 04 55.4	15.8N	98.2W	16	3.7D		¶97vii3913
ISC		Poorly determined						
ISC	**VII**	**28 06 44 54**±11	**14.8N**±.84	**98.4W**±.18	**16**		**8**	**2-5**
MEX	VII	28 06 45 05.0	15.6N	98.4W	16	3.9D		¶97vii4219
ISC	**VII**	**28 09 43 36**±7.5	**15.3N**±.60	**98.3W**±.15	**16**		**7**	**2-5**
MEX	VII	28 09 43 43.3	15.5N	98.4W	16	4.0D		¶97vii4243
ISC	**VII**	**28 15 32 53**±9.3	**15.0N**±.71	**98.5W**±.18	**17**		**6**	**2-4**
MEX	VII	28 15 33 02.0	15.4N	98.4W	17	4.0D		¶97vii4295
ISC	**VII**	**30 03 01 16**±6.4	**15.6N**±.47	**99.2W**±.21	**10**		**12**	**1-5**
MEX	VII	30 03 01 24.7	16.2N	99.2W	10	4.0D		¶97vii4522
ISC	**VII**	**30 08 06 26**±5.9	**15.5N**±.46	**98.3W**±.13	**10**		**8**	**2-4**
MEX	VII	30 08 06 31.2	15.6N	98.3W	10	4.1D		¶97vii4551
ISC	**VIII**	**01 02 51 02**±5.7	**15.5N**±.45	**98.2W**±.14	**17**		**8**	**2-4**
MEX	VIII	01 02 51 05.3	15.5N	98.3W	17	4.1D		¶97viii0016
ISC	**VIII**	**02 05 48 44**±7.4	**15.2N**±.57	**98.4W**±.16	**16**		**8**	**2-4**
MEX	VIII	02 05 48 50.5	15.5N	98.3W	16	4.2D		¶97viii0178
ISC	**VIII**	**03 23 46 34**±2.5	**15.9N**±.19	**98.15W**±.094	**5**	3.9b	**16**	**0-48**
MEX	VIII	03 23 46 39.2	16.2N	98.0W	5	4.3D		¶97viii0430
MEX	**VIII**	**08 21 16 53.0**	**16.0N**	**98.2W**	**5**	**4.3D**		¶97viii1166
ISC	**VIII**	**15 12 26 52**±6.2	**15.5N**±.50	**98.2W**±.15	**16**		**6**	**2-4**
MEX	VIII	15 12 26 57.8	15.7N	98.2W	16	3.9D		¶97viii2217
ISC	**VIII**	**19 01 13 30**±6.1	**15.2N**±.47	**98.3W**±.13	**17**		**8**	**2-4**
MEX	VIII	19 01 13 36.2	15.5N	98.3W	17	4.0D		¶97viii2743
ISC	**VIII**	**22 00 20 04**±4.7	**15.6N**±.36	**98.4W**±.13	**16**		**8**	**2-4**
MEX	VIII	22 00 20 06.8	15.5N	98.4W	16	4.4D		¶97viii3167
MEX	**VIII**	**25 05 21 27.4**	**15.4N**	**98.5W**	**17**	**4.4D**		¶97viii3650
ISC	**VIII**	**26 09 06 08**±3.4	**15.9N**±.27	**98.7W**±.14	**16**	3.8b	**10**	**2-24**
MEX	VIII	26 09 06 07.3	15.7N	99.0W	16	4.3D		¶97viii3823
ISC	**VIII**	**26 14 48 26**±3.6	**15.7N**±.31	**98.20W**±.093	**23**		**9**	**2-5**
MEX	VIII	26 14 48 29.6	15.8N	98.3W	23	4.1D		¶97viii3865
ISC	**VIII**	**26 18 04 01**±1.6	**16.0N**±.14	**98.19W**±.093	**0**		**12**	**2-4**
MEX	VIII	26 18 04 03.3	15.9N	98.2W	0	4.6D		¶97viii3886
ISC	**VIII**	**28 13 27 08**±2.7	**15.9N**±.18	**98.0W**±.11	**24**±18		**13**	**0-4**
MEX	VIII	28 13 27 09.6	15.9N	98.1W	3	4.4D		¶97viii4139
ISC	**VIII**	**30 22 26 43**±3.7	**16.0N**±.34	**98.4W**±.12	**5**		**8**	**2-4**
MEX	VIII	30 22 26 45.7	15.9N	98.3W	5	3.8D		¶97viii4547
ISC	**IX**	**01 04 31 15**±2.3	**15.8N**±.18	**98.9W**±.11	**16**		**18**	**1-4**
MEX	IX	01 04 31 19.1	16.0N	98.8W	16	4.1D		¶97ix0040
ISC	**IX**	**01 05 57 13**±1.6	**16.0N**±.13	**98.29W**±.079	**5**		**18**	**0-5**
MEX	IX	01 05 57 13.7	15.9N	98.2W	5	4.2D		¶97ix0056
ISC	**IX**	**05 03 25 14**±3.8	**15.9N**±.16	**98.7W**±.11	**4**±18	**4.2b**,3.9s	**37**	**1-59**
NEIC	IX	05 03 25 13.1	15.44N	98.39W	33	4.2b		¶97ix0681
EIDC	IX	05 03 25 14.0	15.8N	97.8W	0	4.0b,4.2s		
MEX	IX	05 03 25 14.1	15.6N	99.0W	16	4.6D		
NEIC		Poor solution.						
ISC	**IX**	**06 23 29 00**±1.5	**15.9N**±.12	**98.29W**±.077	**5**		**17**	**1-5**
MEX	IX	06 23 29 03.0	16.0N	98.3W	5	4.1D		¶97ix0988
MEX	**IX**	**08 19 36 46.3**	**15.5N**	**98.3W**	**15**	**3.8D**		¶97ix1268
ISC	**IX**	**15 10 41 44**±3.7	**15.7N**±.30	**98.2W**±.12	**5**		**13**	**1-5**
MEX	IX	15 10 41 48.6	16.1N	98.0W	5	3.7D		¶97ix2229
MEX	**IX**	**16 11 21 59.4**	**15.6N**	**98.6W**	**16**	**3.8D**		¶97ix2376
MEX	**IX**	**18 04 20 35.1**	**15.5N**	**98.3W**	**16**	**4.1D**		¶97ix2615
ISC	**IX**	**23 01 51 01**±4.9	**15.6N**±.37	**98.0W**±.14	**16**		**10**	**2-4**
MEX	IX	23 01 51 06.8	15.8N	98.0W	16	4.0D		¶97ix3353
ISC	**IX**	**25 04 21 51**±6.6	**15.3N**±.50	**98.4W**±.16	**16**		**9**	**2-4**
MEX	IX	25 04 21 55.2	15.4N	98.3W	16	4.0D		¶97ix3675
ISC	**X**	**01 18 05 00**±1.7	**15.8N**±.16	**98.32W**±.085	**23**		**12**	**1-4**
MEX	X	01 18 05 01.0	16.0N	98.3W	23	4.0D		¶97x0130
ISC	**X**	**02 18 53 19**±4.4	**15.9N**±.33	**99.5W**±.18	**16**		**10**	**1-4**
MEX	X	02 18 53 25.0	16.3N	99.3W	16	3.8D		¶97x0327
ISC	**X**	**04 07 44 59**±13	**16.0N**±.94	**99.7W**±.28	**23**		**8**	**1-4**
MEX	X	04 07 45 03.6	16.2N	99.6W	23	3.8D		¶97x0608
MEX	**X**	**05 07 53 21.4**	**15.5N**	**98.3W**	**16**	**4.2D**		¶97x0827
ISC	**X**	**13 10 26 45**±6.4	**15.3N**±.49	**98.3W**±.15	**23**		**9**	**2-4**
MEX	X	13 10 26 47.8	15.3N	98.3W	23	4.2D		¶97x2202
ISC	**X**	**15 03 41 09**±11	**14.9N**±.85	**98.2W**±.20	**16**		**8**	**3-5**
MEX	X	15 03 41 15.7	15.2N	98.2W	16	4.0D		¶97x2557
ISC	**X**	**15 13 42 25**±4.9	**15.8N**±.40	**98.3W**±.14	**6**		**8**	**2-4**
MEX	X	15 13 42 31.1	16.0N	98.4W	6	4.1D		¶97x2648
MEX	**X**	**18 13 37 00.3**	**15.8N**	**98.1W**	**10**	**4.1D**		¶97x3166
ISC	**X**	**18 14 20 18**±5.3	**15.3N**±.39	**98.1W**±.13	**16**		**12**	**2-5**
MEX	X	18 14 20 24.4	15.6N	98.0W	16	4.3D		¶97x3175
ISC	**X**	**19 01 12 29**±7.5	**15.5N**±.56	**99.2W**±.23	**16**		**7**	**2-4**
MEX	X	19 01 12 33.5	15.6N	99.1W	16	4.0D		¶97x3267
ISC	**X**	**20 03 07 55**±5.4	**15.4N**±.41	**98.8W**±.14	**16**		**12**	**2-5**
MEX	X	20 03 08 00.7	15.6N	98.8W	16	4.2D		¶97x3423
ISC	**X**	**20 07 54 50**±5.4	**15.2N**±.40	**98.8W**±.12	**16**		**14**	**2-5**
MEX	X	20 07 54 54.9	15.4N	98.8W	16	4.2D		¶97x3462
ISC	**X**	**28 05 02 01**±6.0	**15.6N**±.49	**98.3W**±.14	**17**		**5**	**2-4**
MEX	X	28 05 02 06.1	15.8N	98.4W	17	3.9D		¶97x4714
ISC	**X**	**31 00 26 45**±4.0	**15.3N**±.31	**98.5W**±.11	**16**		**17**	**2-5**
MEX	X	31 00 26 49.8	15.5N	98.4W	16	4.5D		¶97x5109
ISC	**X**	**31 00 36 25**±5.5	**15.5N**±.42	**98.2W**±.13	**16**		**10**	**2-5**
MEX	X	31 00 36 30.7	15.7N	98.3W	16	4.1D		¶97x5112
ISC	**XI**	**01 02 00 54**±7.8	**15.5N**±.55	**98.0W**±.24	**7**		**10**	**3-4**
MEX	XI	01 02 00 59.8	15.8N	98.0W	7	4.3D		¶97xi0012
MEX	**XI**	**02 10 57 06.2**	**15.3N**	**98.9W**	**16**	**3.8D**		¶97xi0243
ISC	**XI**	**02 11 32 36**±1.5	**15.6N**±.14	**98.53W**±.091	**13**	**4.3b**,4.0s	**31**	**2-59**
EIDC	XI	02 11 32 34.8	15.9N	97.6W	0	4.0b,3.8s		¶97xi0252
MEX	XI	02 11 32 37.2	15.5N	98.7W	13	4.6D		
NEIC	XI	02 11 32 42.9	16.26N	98.34W	33	4.4b		
NEIC		Poor solution.						
ISC	**XI**	**05 10 27 52**±11	**15.2N**±.85	**99.0W**±.27	**16**		**8**	**2-4**
MEX	XI	05 10 28 00.9	15.7N	98.9W	16	4.2D		¶97xi0771
ISC		Poorly determined						
ISC	**XI**	**08 13 27 06**±6.6	**15.7N**±.55	**98.9W**±.19	**23**		**10**	**1-4**
MEX	XI	08 13 27 11.7	16.0N	98.9W	23	3.8D		¶97xi1286
ISC		Poorly determined						
ISC	**XI**	**11 06 44 11**±4.7	**15.8N**±.40	**98.2W**±.14	**18**		**5**	**2-3**
MEX	XI	11 06 44 15.6	16.0N	98.2W	18	3.7D		¶97xi1751
ISC	**XI**	**13 06 19 53**±2.9	**15.9N**±.23	**98.59W**±.090	**10**		**13**	**1-5**
MEX	XI	13 06 19 58.2	16.0N	98.6W	10	4.5D		¶97xi2089
ISC	**XI**	**22 16 09 59**±2.2	**15.9N**±.18	**99.7W**±.11	**16**	**3.9b**	**16**	**1-58**
MEX	XI	22 16 10 03.8	16.1N	99.6W	16	4.2D		¶97xi3910
EIDC	XI	22 16 10 21.7	21.1N	93.2W	0	3.8b,3.3L		
ISC	**XI**	**24 09 54 42**±5.3	**15.9N**±.38	**98.5W**±.16	**13**		**13**	**1-4**
MEX	XI	24 09 54 41.0	15.9N	98.4W	13	4.3D		¶97xi4291
ISC	**XII**	**08 10 43 02**±11	**14.3N**±.82	**98.3W**±.18	**16**		**14**	**3-6**
MEX	XII	08 10 43 12.9	14.8N	98.3W	16	4.2D		¶97xii1913

MEX	**XII**	**16 11 54 30.7**	**15.8N**	**99.1W**	**20**	**3.9D**			**¶97xii3447**
ISC	**XII**	**16 13 19 25**±14	**14.9N**±.95	**99.6W**±.47	**16**			**13**	**2-5**
MEX	XII	16 13 19 35.2	15.4N	99.4W	16	4.2D			**¶97xii3453**
ISC	**XII**	**16 23 34 35**±2.8	**15.6N**±.21	**99.3W**±.14	**10**			**17**	**1-4**
NEIC	XII	16 23 34 35.6	15.67N	99.23W	10				**¶97xii3523**
MEX	XII	16 23 34 39.0	15.6N	99.2W	16	4.1D			
NEIC	MD4.1(UNM), Single network solution.								
ISC	**XII**	**19 23 41 47**±10	**15.6N**±.78	**99.5W**±.38	**13**			**4**	**1-4**
MEX	XII	19 23 41 52.8	16.1N	99.3W	13	3.7D			**¶97xii4049**
ISC	Poorly determined								
MEX	**XII**	**22 22 09 18.0**	**15.6N**	**99.1W**	**16**	**3.9D**			**¶97xii4491**
ISC	**XII**	**26 03 20 14**±2.3	**15.4N**±.20	**98.70W**±.088	**10**	3.6b		**9**	**1-48**
NEIC	XII	26 03 20 13.1	15.30N	98.73W	10	3.5b			**¶97xii5034**
MEX	XII	26 03 20 20.6	16.0N	98.7W	18	4.0D			
NEIC	MD4.0(UNM), Poor solution.								
ISC	**XII**	**26 08 33 01**±6.1	**15.6N**±.45	**99.1W**±.20	**6**			**11**	**1-4**
MEX	XII	26 08 33 06.2	15.8N	99.1W	6	4.2D			**¶97xii5084**
ISC	**XII**	**28 01 33 15**±2.5	**15.9N**±.15	**98.29W**±.099	**26**±13	**3.6b**		**25**	**1-85**
EIDC	XII	28 01 33 07.3±6.35	15.0N	98.3W	0	3.6b,3.7L			**¶97xii5375**
NEIC	XII	28 01 33 16.6	15.98N	98.24W	33	3.6b			
MEX	XII	28 01 33 16.9	16.0N	98.3W	4	4.3D			
EIDC	Error ellipse is semi−major=187.9km semi−minor=76.2km azimuth=41								
NEIC	MD4.3(UNM), Less reliable solution.								
ISC	**XII**	**29 10 12 14**±3.7	**15.9N**±.31	**99.04W**±.098	**17**			**9**	**1-4**
MEX	XII	29 10 12 18.1	15.9N	99.0W	17	4.0D			**¶97xii5571**

(66) Near coast of Oaxaca, Mexico.

ISC	**VII**	**12 00 02 39**±5.1	**15.7N**±.44	**97.9W**±.16	**29**			**5**	**2-3**
MEX	VII	12 00 02 41.5	16.0N	97.9W	29	4.0D			**¶97vii1746**
MEX	**VII**	**23 01 24 18.2**	**15.9N**	**96.3W**	**73**	**3.9D**			**¶97vii3465**
ISC	**VII**	**29 15 00 22**±2.3	**15.8N**±.20	**96.0W**±.12	**16**	**4.0b**		**21**	**1-133**
NEIC	VII	29 15 00 26.9	16.13N	95.74W	33				**¶97vii4444**
EIDC	VII	29 15 00 29.0	16.1N	95.8W	32	3.8b,3.5L			
MEX	VII	29 15 00 30.7	16.1N	96.3W	16	4.4D			
NEIC	Poor solution.								
ISC	**VIII**	**03 21 27 06**±1.4	**15.7N**±.12	**97.94W**±.078	**5**	**4.1b,**3.4s		**33**	**1-92**
EIDC	VIII	03 21 27 02.3	15.1N	97.3W	0	3.9b,3.4s			**¶97viii0415**
MEX	VIII	03 21 27 12.7	16.0N	98.1W	5	4.5D			
NEIC	VIII	03 21 27 15.4	16.38N	97.71W	33	4.1b			
NEIC	Poor solution.								
ISC	**VIII**	**05 12 43 31**±1.3	**15.6N**±.19	**94.7W**±.13	**57**±11	**3.7b**		**21**	**2-81**
NEIC	VIII	05 12 43 30.3	16.26N	94.33W	33	3.6b			**¶97viii0667**
MEX	VIII	05 12 43 32.7	15.8N	94.7W	12	4.5D			
EIDC	VIII	05 12 43 34.0	15.7N	94.5W	78	3.5b,3.9L			
NEIC	Poor solution.								
MEX	**VIII**	**09 00 34 38.4**	**16.0N**	**97.6W**	**16**	**4.5D**			**¶97viii1184**
ISC	**VIII**	**10 08 59 48**±7.3	**15.1N**±.55	**97.7W**±.19	**16**			**7**	**2-5**
MEX	VIII	10 08 59 56.8	15.7N	97.8W	16	3.9D			**¶97viii1376**
ISC	**VIII**	**18 17 46 39**±1.7	**15.8N**±.18	**97.62W**±.089	**16**			**9**	**1-3**
MEX	VIII	18 17 46 41.6	15.9N	97.6W	16	3.9D			**¶97viii2700**
ISC	**VIII**	**27 10 43 30**±1.7	**15.4N**±.25	**94.8W**±.14	**32**			**10**	**2-6**
MEX	VIII	27 10 43 31.2	15.3N	94.8W	32	4.5D			**¶97viii3975**
ISC	**VIII**	**27 18 24 18**±5.1	**15.6N**±.39	**95.6W**±.17	**21**			**16**	**2-6**
MEX	VIII	27 18 24 23.0	15.8N	95.7W	21	4.6D			**¶97viii4022**
ISC	**IX**	**19 20 24 01**±1.5	**15.9N**±.16	**97.25W**±.097	**51**			**7**	**1-4**
NEIC	IX	19 20 24 01.6	15.99N	97.24W	33				**¶97ix2842**
MEX	IX	19 20 24 04.2	16.1N	97.2W	51	4.4D			
NEIC	Single network solution.								
MEX	**IX**	**23 01 09 48.0**	**15.9N**	**97.3W**	**16**	**3.8D**			**¶97ix3350**
ISC	**IX**	**23 17 46 03**±1.9	**15.8N**±.19	**97.99W**±.094	**16**			**8**	**1-4**
MEX	IX	23 17 46 04.9	16.1N	97.9W	16	3.9D			**¶97ix3461**
ISC	**IX**	**25 00 22 35**±1.0	**15.4N**±.14	**94.6W**±.11	**67**±12	**3.5b**		**17**	**1-61**
EIDC	IX	25 00 22 29.2	15.8N	93.6W	0	3.6b,4.0L			**¶97ix3654**
NEIC	IX	25 00 22 35.5	15.42N	94.64W	68	3.9b			
MEX	IX	25 00 22 35.9	15.4N	94.5W	16	4.6D			
NEIC	Less reliable solution.								
ISC	**IX**	**29 05 41 00**±1.1	**15.8N**±.26	**94.2W**±.17	**100**			**12**	**2-8**
NEIC	IX	29 05 41 00.1	15.86N	94.15W	100				**¶97ix4876**
MEX	IX	29 05 41 02.9	16.0N	94.1W	34	4.3D			
NEIC	Poor solution.								
ISC	**X**	**03 08 37 12**±5.2	**15.7N**±.41	**97.9W**±.15	**16**			**11**	**2-4**
MEX	X	03 08 37 17.0	15.8N	98.0W	16	3.9D			**¶97x0429**
MEX	**X**	**09 15 05 25.4**	**15.8N**	**97.3W**	**13**	**4.0D**			**¶97x1599**
MEX	**X**	**09 15 17 00.3**	**15.8N**	**97.3W**	**16**	**4.3D**			**¶97x1602**
ISC	**X**	**09 19 36 18**±3.3	**15.8N**±.25	**97.9W**±.11	**16**			**15**	**2-4**
MEX	X	09 19 36 22.9	16.0N	97.9W	16	4.3D			**¶97x1631**
ISC	**X**	**19 18 54 31**±1.9	**15.42N**±.081	**94.68W**±.072	**31**±14	**4.5b,**3.6s		**88**	**2-147**
EIDC	X	19 18 54 28.1	15.5N	94.6W	0	4.3b,3.6s			**¶97x3382**
NEIC	X	19 18 54 31.3	15.46N	94.66W	33	4.7b			
MEX	X	19 18 54 32.1	15.4N	94.6W	4	4.8D			
ISC	**XI**	**01 23 12 57**±2.2	**15.42N**±.091	**94.54W**±.074	**30**±16	**4.5b,4.1s**		**74**	**2-147**
EIDC	XI	01 23 12 52.4	15.4N	94.4W	0	4.3b,4.1s			**¶97xi0158**
NEIC	XI	01 23 12 56.1	15.30N	94.64W	33	4.7b,4.4s			
MEX	XI	01 23 12 56.5	15.0N	94.8W	5	4.7D			
ISC	**XI**	**03 23 00 52**±8.0	**15.6N**±.60	**96.3W**±.32	**10**			**5**	**2-4**
MEX	XI	03 23 00 45.8	14.9N	96.1W	10	4.3D			**¶97xi0534**
MEX	**XI**	**15 11 14 49.5**	**15.8N**	**96.3W**	**11**	**4.0D**			**¶97xi2465**
ISC	**XI**	**19 23 17 30**±16	**15.4N**±.98	**96.7W**±.72	**16**			**4**	**2-4**
MEX	XI	19 23 17 38.6	15.8N	96.9W	16	3.4D			**¶97xi3332**
ISC	Poorly determined								
ISC	**XII**	**11 06 35 48**±5.0	**15.4N**±.36	**96.2W**±.18	**3**			**9**	**2-5**
MEX	XII	11 06 35 52.7	15.5N	96.2W	3	4.3D			**¶97xii2507**
ISC	**XII**	**26 17 49 15.7**±.98	**15.8N**±.11	**95.70W**±.074	**33**	**3.6b**		**30**	**0-60**
EIDC	XII	26 17 49 04.4±7.53	14.8N	96.3W	0	3.6b,3.6L			**¶97xii5184**
NEIC	XII	26 17 49 16.1	15.88N	95.78W	33	3.8b			
MEX	XII	26 17 49 16.9	16.0N	95.7W	6	4.5D			
EIDC	Error ellipse is semi−major=135.2km semi−minor=120.0km azimuth=1								
NEIC	MD4.5(UNM), Poor solution.								
MEX	**XII**	**30 14 59 59.3**	**15.7N**	**97.3W**	**16**	**4.0D**			**¶97xii5750**

(67) Off coast of Oaxaca, Mexico.

MEX	**VIII**	**24 06 50 16.7**	**14.5N**	**97.3W**	**10**	**4.6D**			**¶97viii3489**

(68) Off coast of Chiapas, Mexico.

ISC	**VII**	**19 11 41 36**±4.8	**14.0N**±.55	**92.9W**±.46	**33**	**3.5b**		**6**	**18-62**
EIDC	VII	19 11 41 35.9	14.5N	92.5W	0	3.6b,3.3L			**¶97vii2865**
ISC	**VII**	**25 16 35 46**±4.1	**13.3N**±.41	**93.8W**±.11	**19**	**3.6b**		**14**	**2-63**
EIDC	VII	25 16 35 31.6	10.5N	98.0W	0	3.6b,3.1s			**¶97vii3846**
MEX	VII	25 16 35 45.7	13.0N	93.8W	19	4.5D			
ISC	**VII**	**30 06 01 31**±1.7	**13.3N**±.18	**92.5W**±.23	**33**	3.6b		**6**	**2-63**
EIDC	VII	30 06 01 22.0	11.9N	93.8W	0	3.5b,3.6L			**¶97vii4540**
NEIC	VII	30 06 01 30.4	13.27N	92.51W	33				
NEIC	Poor solution.								
ISC	**VIII**	**06 14 44 38**±1.3	**13.8N**±.35	**92.2W**±.69	**33**	**3.8b**		**7**	**19-146**
NEIC	VIII	06 14 44 38.2	13.77N	92.23W	33				**¶97viii0809**
EIDC	VIII	06 14 44 42.2	14.1N	92.3W	25	3.6b,3.5L			
NEIC	Poor solution.								
ISC	**VIII**	**19 08 30 15**±2.2	**13.9N**±.14	**92.7W**±.13	**38**±17	**4.1b,**3.6s		**19**	**1-146**
EIDC	VIII	19 08 30 11.5	13.9N	92.2W	0	4.1b,3.6s			**¶97viii2781**
NEIC	VIII	19 08 30 14.8	13.90N	92.52W	33	4.2b			
NEIC	Poor solution.								
EIDC	**VIII**	**21 19 53 20.2**	**13.5N**	**93.9W**	**0**	4.0s,3.4b			**18-146**
									¶97viii3137
ISC	**X**	**30 07 11 53**±4.6	**14.2N**±.27	**94.0W**±.11	**22**±27	**4.5b**		**24**	**2-148**
EIDC	X	30 07 11 48.5	13.8N	94.4W	0	4.3b,3.5L			**¶97x5012**
NEIC	X	30 07 11 54.3	14.30N	94.04W	33	4.8b			
MEX	X	30 07 12 01.5	15.2N	93.7W	36	4.6D			
NEIC	Less reliable solution.								
ISC	**XII**	**15 00 05 28**±2.1	**13.7N**±.32	**95.4W**±.28	**33**	**4.0b**		**12**	**17-145**
EIDC	XII	15 00 05 24.0±3.67	13.6N	95.2W	0	3.9b,3.8L			**¶97xii3210**
NEIC	XII	15 00 05 28.2	13.69N	95.40W	33	4.3b			
EIDC	Error ellipse is semi−major=83.4km semi−minor=45.2km azimuth=25								
NEIC	Poor solution.								
ISC	**XII**	**26 14 24 39.8**±.70	**13.9N**±.10	**92.38W**±.061	**10**	**4.6b,4.2s**		**94**	**1-151**
NEIC	XII	26 14 24 40.6	14.02N	92.30W	10	4.7b			**¶97xii5147**
MEX	XII	26 14 24 45.3	15.6N	91.4W	31	4.9D			
EIDC	XII	26 14 24 51.0±7.42	14.3N	92.3W	71±61.0	4.3b,4.1s			
EIDC	Error ellipse is semi−major=36.9km semi−minor=21.6km azimuth=40								

(69) Near coast of Chiapas, Mexico.

ISC	**VII**	**16 22 39 22**±1.3	**15.8N**±.14	**93.6W**±.10	**3**			**5**	**1-6**
MEX	VII	16 22 39 25.3	15.8N	93.6W	3	4.1D			**¶97vii2506**
ISC	**VII**	**17 19 18 22**±3.9	**14.10N**±.094	**93.31W**±.071	**9**±24	**4.0b,4.0s**		**28**	**1-145**
NEIC	VII	17 19 18 24.3	13.96N	93.58W	33	4.3b			**¶97vii2632**
MEX	VII	17 19 18 29.1	14.4N	93.2W	22	4.9D			
EIDC	VII	17 19 18 38.1	14.1N	93.4W	145	3.6b,4.2s			
NEIC	Less reliable solution.								
ISC	**VII**	**17 19 48 24**±3.8	**14.1N**±.15	**93.10W**±.091	**25**±25	**4.2b,**3.6s		**24**	**1-146**
EIDC	VII	17 19 48 22.2	14.2N	93.0W	0	4.1b,3.7s			**¶97vii2637**
NEIC	VII	17 19 48 25.2	14.25N	92.94W	33	4.5b			
MEX	VII	17 19 48 29.7	14.4N	93.1W	22	4.7D			
NEIC	Poor solution.								
ISC	**VII**	**18 14 33 25**±4.2	**14.3N**±.53	**92.3W**±.47	**33**	**4.1b**		**6**	**18-62**
EIDC	VII	18 14 33 21.3	14.2N	92.4W	0	4.0b,3.7L			**¶97vii2755**
ISC	**VIII**	**01 03 22 07**±1.3	**14.1N**±.13	**92.7W**±.19	**33**	**3.5b**		**9**	**1-62**
EIDC	VIII	01 03 22 05.3	14.6N	91.9W	0	3.5b,3.2s			**¶97viii0019**
ISC	**VIII**	**04 20 34 52**±1.9	**15.0N**±.22	**93.42W**±.097	**6**			**6**	**1-7**
MEX	VIII	04 20 34 52.3	15.0N	93.4W	6	4.2D			**¶97viii0545**
ISC	**VIII**	**04 21 51 17**±2.3	**14.6N**±.23	**93.74W**±.092	**49**±12	**4.1b**		**17**	**1-145**
NEIC	VIII	04 21 51 14.5	14.38N	93.95W	33	4.2b			**¶97viii0558**
EIDC	VIII	04 21 51 16.1	14.6N	93.5W	26	3.8b,3.9L			
MEX	VIII	04 21 51 19.6	14.7N	93.8W	15	4.5D			
NEIC	Poor solution.								
ISC	**VIII**	**04 23 18 48**±2.9	**14.6N**±.35	**92.9W**±.22	**174**			**4**	**1-5**
MEX	VIII	04 23 18 50.2	14.8N	92.8W	174	4.0D			**¶97viii0573**
ISC	Poorly determined								
ISC	**VIII**	**05 00 35 12**±2.4	**14.5N**±.24	**92.8W**±.11	**64**±10	**4.2b**		**31**	**1-145**
MEX	VIII	05 00 35 01.6	13.5N	92.9W	100	4.4D			**¶97viii0585**
EIDC	VIII	05 00 35 02.2	14.0N	92.7W	0	4.1b,3.8L			
NEIC	VIII	05 00 35 06.8	14.27N	92.65W	33	4.1b			
NEIC	Poor solution.								
ISC	**VIII**	**19 19 49 33**±1.1	**14.26N**±.066	**92.46W**±.067	**32**±10	**4.5b,4.2s**		**136**	**1-148**
MEX	VIII	19 19 49 32.6	14.0N	92.6W	88	4.9D			**¶97viii2862**
NEIC	VIII	19 19 49 33.6	14.30N	92.41W	33	4.6b,4.2s			
BJI	VIII	19 19 49 34.7	14.50N	92.28W	38	4.8s			
EIDC	VIII	19 19 49 37.8	14.4N	92.3W	46	4.2b,4.3s			
ISC	**VIII**	**26 13 54 55.5**±.93	**14.0N**±.12	**92.40W**±.078	**24**	**4.4b,4.1s**		**46**	**4-146**
NEIC	VIII	26 13 54 57.2	14.15N	92.19W	33	4.4b			**¶97viii3856**
MEX	VIII	26 13 54 59.3	13.9N	92.7W	24	4.7D			
EIDC	VIII	26 13 54 59.5	14.4N	91.9W	26	4.3b,4.0s			
NEIC	Less reliable solution.								
ISC	**IX**	**16 17 52 13**±1.1	**14.77N**±.087	**93.65W**±.078	**42**±9.6	**4.4b,4.0s**		**67**	**1-145**
NEIC	IX	16 17 52 11.0	14.71N	93.64W	33	4.6b,4.3s			**¶97ix2414**
MEX	IX	16 17 52 12.8	14.6N	93.8W	10	4.5D			
EIDC	IX	16 17 52 16.4	14.9N	93.6W	58	4.0b,3.8s			
ISC	**IX**	**22 12 05 11**±2.3	**14.6N**±.31	**93.13W**±.095	**46**±12	**4.1b**		**21**	**1-145**
MEX	IX	22 12 05 01.5	16.2N	91.8W	4	4.2D			**¶97ix3273**
NEIC	IX	22 12 05 06.3	14.31N	93.04W	33	4.3b			
EIDC	IX	22 12 05 17.0	16.2N	93.0W	0	4.2b			
NEIC	Poor solution.								
ISC	**IX**	**22 12 06 26.3**±.45	**14.43N**±.066	**92.99W**±.047	**18**	**4.8b,5.1s**		**144**	**1-147**
MEX	IX	22 12 06 15.3	13.3N	92.9W	18	5.2D			**¶97ix3274**
NEIC	IX	22 12 06 28.4	14.44N	93.08W	33	4.9b,5.1s			
HRVD	IX	22 12 06 29.3±.2	14.29N±.02	93.46W±.02	28±1.5				
EIDC	IX	22 12 06 32.7	14.7N	92.6W	52	4.3b,4.6L			
NEIC	Mw5.6(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c79; Half duration: 1$4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.47±.03; $M_{\theta\theta}$−1.31±.04; $M_{\phi\phi}$−0.16±.05; $M_{r\theta}$1.62±.13; $M_{r\phi}$−0.84±.10; $M_{\theta\phi}$0.76±.04. Principal Axes: T 2.31,Plg65°,Azm28°; N 0.22, Plg0°,Azm297°; P −2.53,Plg25°,Azm207°. Best double couple: $M_0$2.4×10^{17}Nm, NP1: ϕ_S296°,δ20°,λ89°. NP2:ϕ_S117°,δ70°,λ91°.								
ISC	**IX**	**22 13 20 30.7**±.60	**14.50N**±.087	**93.00W**±.058	**33**	**4.6b,4.6s**		**117**	**1-147**
MEX	IX	22 13 20 26.0	14.1N	93.0W	157	5.1D			**¶97ix3285**
NEIC	IX	22 13 20 29.5	14.38N	92.97W	33	4.8b,4.6s			
BJI	IX	22 13 20 31.5	14.40N	92.90W	33				
EIDC	IX	22 13 20 41.0	15.0N	92.8W	91	4.2b,4.6s			
ISC	**IX**	**22 16 28 49**±4.1	**14.56N**±.096	**92.9W**±.12	**22**±30	**4.4b,4.4s**		**63**	**1-147**
EIDC	IX	22 16 28 45.2	14.3N	92.7W	0	4.3b,4.1L			**¶97ix3303**
MEX	IX	22 16 28 47.1	16.1N	92.1W	3	5.0D			
NEIC	IX	22 16 28 50.3	14.53N	93.05W	33	4.8b,4.4s			
ISC	**IX**	**29 17 16 29.2**±.36	**14.45N**±.054	**93.19W**±.042	**22**	**4.5b,4.7s**		**124**	**1-148**
EIDC	IX	29 17 16 27.4	14.4N	92.9W	0	4.4b,4.6s			**¶97ix4989**
MEX	IX	29 17 16 30.8	14.2N	93.4W	22	5.1D			
NEIC	IX	29 17 16 31.0	14.46N	93.14W	38	4.6b,4.7s			
HRVD	IX	29 17 16 35.9±.7	14.53N±.05	93.24W±.07	48±4.3				
NEIC	Mw5.3(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c39; Half duration: 1$0. Moment tensor: Scale 10^{16}Nm; M_{rr}7.32±.45; $M_{\theta\theta}$−7.74±.72; $M_{\phi\phi}$0.42±.98;								

Agency		Origin Time mo d h m s	ϕ °	λ °	h km	Mag	*n*	Δ-Rng °
		Mrθ1.85±.89; Mrϕ−2.20±.80; Mθϕ3.16±.44. Principal Axes: T 8.02,Plg75°,Azm76°; N 1.18, Plg12°,Azm292°; P −9.20,Plg9°,Azm200°. Best double couple: M0 8.6×10^{16}Nm, NP1: ϕS276°,δ38°,λ70°. NP2:ϕS121°,δ55°,λ105°.						
ISC	**IX**	**29 22 05 01**±1.6	**14.5N**±.17	**93.0W**±.10	**67**±10	**3.8b**	**21**	**1-145**
MEX	IX	29 22 04 48.6	13.4N	93.0W	119	4.6D		¶97ix5040
NEIC	IX	29 22 05 00.4	14.49N	93.07W	65	4.4b		
EIDC	IX	29 22 05 09.5	15.0N	92.7W	115	3.5b,3.9L		
NEIC	Less reliable solution.							
ISC	**IX**	**30 13 27 05**±1.7	**14.8N**±.21	**93.3W**±.11	**38**±11	**4.0b**	**21**	**1-145**
MEX	IX	30 13 26 58.3	14.5N	92.7W	180	4.7D		¶97ix5236
NEIC	IX	30 13 27 00.1	14.18N	93.38W	33	4.5b		
EIDC	IX	30 13 27 22.9	14.9N	93.7W	187	3.5b		
NEIC	Poor solution.							
ISC	**X**	**03 19 50 30**±1.2	**14.33N**±.097	**93.19W**±.065	**43**±9.8	**4.4b,4.2s**	**57**	**1-151**
EIDC	X	03 19 50 26.3	14.6N	92.7W	0	4.4b,4.3s		¶97x0517
MEX	X	03 19 50 28.0	16.1N	92.1W	46	4.9D		
NEIC	X	03 19 50 28.6	14.37N	93.11W	33	4.5b		
NEIC	Less reliable solution.							
ISC	**X**	**03 19 56 16**±2.2	**14.1N**±.19	**93.21W**±.098	**38**±14	**4.1b**	**21**	**1-151**
EIDC	X	03 19 56 14.1	14.4N	92.9W	0	4.1b		¶97x0518
NEIC	X	03 19 56 16.4	14.21N	93.06W	33			
MEX	X	03 19 56 18.0	14.2N	93.1W	53	4.6D		
NEIC	Poor solution.							
ISC	**X**	**07 04 24 07**±1.5	**14.6N**±.19	**92.4W**±.12	**71**±9.7	**3.7b**	**15**	**0-62**
EIDC	X	07 04 23 59.8	14.6N	92.5W	0	3.7b		¶97x1177
NEIC	X	07 04 24 02.3	14.46N	92.60W	33	4.1b		
MEX	X	07 04 24 02.5	13.9N	92.4W	30	4.4D		
NEIC	Poor solution.							
ISC	**X**	**08 17 00 08.7**±.97	**14.80N**±.084	**93.65W**±.066	**48**±8.4	**4.6b,4.5s**	**110**	**1-147**
EIDC	X	08 17 00 02.4	14.6N	93.6W	0	4.5b,4.5s		¶97x1441
NEIC	X	08 17 00 05.7	14.62N	93.72W	33	4.7b,4.5s		
MEX	X	08 17 00 08.9	14.4N	93.8W	41	4.7D		
ISC	**X**	**12 13 12 31**±5.5	**14.2N**±.56	**92.7W**±.17	**68**±14	**3.9b**	**14**	**1-146**
EIDC	X	12 13 12 24.2	14.4N	92.1W	0	4.0b,3.6s		¶97x2048
NEIC	X	12 13 12 26.8	14.25N	92.36W	33	4.1b		
NEIC	Poor solution.							
ISC	**X**	**13 10 07 41**±1.6	**14.1N**±.10	**92.27W**±.093	**50**±12	**4.3b,3.5s**	**46**	**1-151**
NEIC	X	13 10 07 39.5	14.22N	92.08W	33	4.3b		¶97x2199
MEX	X	13 10 07 47.3	14.6N	92.6W	63	4.7D		
EIDC	X	13 10 07 47.4	14.4N	92.0W	82	3.9b,3.5s		
ISC	**X**	**22 04 34 12**±4.7	**14.8N**±.54	**92.8W**±.44	**33**	**3.4b**	**7**	**18-145**
EIDC	X	22 04 34 08.1	14.6N	93.0W	0	3.4b		¶97x3751
NEIC	X	22 04 34 11.0	14.71N	92.79W	33	3.9b		
NEIC	Poor solution.							
ISC	**X**	**30 06 34 50**±3.1	**14.6N**±.13	**93.98W**±.097	**20**±22	**4.2b**	**28**	**2-145**
EIDC	X	30 06 34 47.5	14.5N	94.1W	0	4.1b,3.4L		¶97x5005
NEIC	X	30 06 34 50.7	14.51N	94.08W	33	4.3b		
MEX	X	30 06 34 57.5	15.4N	93.6W	33	4.5D		
NEIC	Less reliable solution.							
ISC	**X**	**30 11 22 39**±5.4	**14.4N**±.64	**92.6W**±.13	**55**		**7**	**1-8**
MEX	X	30 11 22 40.8	14.5N	92.6W	55	4.5D		¶97x5029
NEIC	X	30 11 22 42.3	15.04N	92.65W	33			
NEIC	Poor solution.							
MEX	**XI**	**13 13 07 30.4**	**14.3N**	**92.4W**	**34**	**4.4D**		**¶97xi2139**
ISC	**XI**	**29 09 24 52**±1.7	**14.8N**±.16	**93.51W**±.099	**41**±11	**4.7b**	**35**	**1-87**
MEX	XI	29 09 24 48.7	14.7N	93.7W	6	4.7D		¶97xi5234
NEIC	XI	29 09 24 50.9	14.84N	93.36W	33	4.7b		
ISC	**XI**	**30 15 53 05**±3.2	**14.2N**±.28	**92.2W**±.16	**59**±16	**4.5b**	**18**	**1-84**
NEIC	XI	30 15 53 02.5	14.27N	92.02W	33	4.6b		¶97xi5428
MEX	XI	30 15 53 02.6	15.7N	91.5W	57	4.6D		
NEIC	Poor solution.							
EIDC	**XII**	**04 17 53 19.5**±3.65	**14.2N**	**93.3W**	**0**	3.9b,3.7L		**18-145**
								¶97xii0663
EIDC	Error ellipse is semi−major=153.2km semi−minor=58.3km azimuth=45							
ISC	**XII**	**05 15 55 29**±2.8	**14.3N**±.32	**92.2W**±.13	**65**	**4.3b**	**30**	**1-147**
NEIC	XII	05 15 55 19.3	13.64N	91.78W	33	4.4b		¶97xii0940
EIDC	XII	05 15 55 20.6±3.26	14.5N	91.3W	0	4.3b,4.4L		
MEX	XII	05 15 55 25.8	14.2N	91.8W	65	4.7D		
NEIC	Poor solution.							
EIDC	Error ellipse is semi−major=116.2km semi−minor=55.5km azimuth=45							
ISC	**XII**	**06 19 10 12**±2.0	**14.6N**±.24	**92.43W**±.090	**73**	**4.1b**	**37**	**0-145**
MEX	XII	06 19 10 01.6	13.6N	92.4W	73	4.7D		¶97xii1501
EIDC	XII	06 19 10 03.2±2.41	14.3N	92.1W	0	4.2b,4.1L		
NEIC	XII	06 19 10 05.2	14.20N	92.20W	33	4.6b		
EIDC	Error ellipse is semi−major=54.6km semi−minor=37.0km azimuth=22							
NEIC	Poor solution.							
MEX	**XII**	**10 18 41 21.2**	**14.5N**	**92.8W**	**78**	**4.2D**		**¶97xii2405**
EIDC	XII	10 18 41 12.7±3.84	14.6N	92.1W	0	3.5b,4.2L		
EIDC	Error ellipse is semi−major=206.7km semi−minor=69.6km azimuth=58							
EIDC	**XII**	**14 22 55 07.8**±8.01	**14.9N**	**93.8W**	**0**	**3.5b,**3.5L		**17-61**
								¶97xii3205
EIDC	Error ellipse is semi−major=267.0km semi−minor=95.1km azimuth=44							
ISC	**XII**	**25 22 16 22**±1.8	**14.24N**±.048	**92.24W**±.041	**25**±12	**5.3b,5.4s**	**373**	**1-155**
MEX	XII	25 22 16 15.3	13.3N	92.4W	70	5.2D		¶97xii4993
BJI	XII	25 22 16 19.1	14.10N	92.30W	10	5.9s		
NEIC	XII	25 22 16 19.1	14.15N	92.28W	10	5.4b,5.3s		
MOS	XII	25 22 16 19.5	14.2N	92.3W	10	5.5b,5.5s		
HRVD	XII	25 22 16 27.0±.2	14.15N±.02	92.71W±.02	33			
EIDC	XII	25 22 16 27.0±5.02	14.3N	92.3W	53±43.4	4.8b,5.5s		
NEIC	Mw5.8(GS), MD5.2(UNM).							
NEIC	Mw 5.8 (HRV).							
NEIC	Moment tensor solution: s38, scale 10^{17}Nm; Mrr4.65; Mθθ−1.82; Mϕϕ−2.82; Mrθ1.81; Mrϕ−0.16; Mθϕ2.72. Depth 26km; Principal axes: T 5.16,Plg73°,Azm345°; N 0.10,Plg15°, Azm136°; P −5.26,Plg8°,Azm228°. Best double couple: M0 5.2×10^{17}Nm; NP1:ϕS335°,δ40°, λ114°. NP2:ϕS126°,δ54°,λ72°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c83; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; Mrr4.62±.09; Mθθ−4.53±.10; Mϕϕ−0.09±.14; Mrθ3.37±.22; Mrϕ−1.93±.18; Mθϕ2.02±.09. Principal Axes: T 5.99,Plg70°,Azm39°; N 0.64, Plg5°,Azm294°; P −6.63,Plg19°,Azm203°. Best double couple: M0 6.3×10^{17}Nm, NP1: ϕS284°,δ26°,λ78°. NP2:ϕS117°,δ64°,λ96°.							
EIDC	Error ellipse is semi−major=26.8km semi−minor=14.9km azimuth=66							

(70) Guatemala.

ISC	**VII**	**05 20 38 41**±4.2	**14.6N**±.30	**90.7W**±.24	**54**±31	**3.8b,**3.4s	**14**	**2-78**
EIDC	VII	05 20 38 23.3	12.5N	91.4W	0	3.9b,3.5s		¶97vii0786
EIDC	**VII**	**07 11 50 25.8**	**14.7N**	**89.7W**	**0**	3.5b,3.9L		**2-51**
								¶97vii1038
ISC	**VII**	**16 20 29 27**±7.2	**14.6N**±.93	**89.7W**±.34	**350**	**3.8b**	**9**	**20-146**
EIDC	VII	16 20 29 31.6	15.0N	89.9W	353	3.7b		¶97vii2490
ISC	**VIII**	**02 10 48 31.7**±.78	**14.57N**±.051	**91.56W**±.053	**89**±7.6	**4.3b**	**116**	**1-150**
NEIC	VIII	02 10 48 30.7	14.54N	91.55W	83	4.4b		¶97viii0200
EIDC	VIII	02 10 48 32.7	14.7N	91.3W	77	4.0b		
MEX	VIII	02 10 48 33.6	14.1N	92.1W	36	4.9D		
ISC	**VIII**	**06 03 32 38**±1.4	**14.06N**±.082	**91.44W**±.097	**67**±14	**4.1b**	**42**	**1-146**
NEIC	VIII	06 03 32 34.1	14.00N	91.49W	33	4.4b		¶97viii0752
EIDC	VIII	06 03 32 39.3	14.2N	91.2W	60	3.9s,3.8b		
ISC	**XI**	**08 20 02 19**±6.2	**14.4N**±.24	**90.6W**±.26	**281**±60	**3.5b**	**13**	**19-146**
NEIC	XI	08 20 02 12.2	14.42N	90.36W	200			¶97xi1342
EIDC	XI	08 20 02 17.3	14.5N	90.3W	236	3.4b		
NEIC	Poor solution.							
ISC	**XII**	**09 23 42 01.4**±.82	**14.3N**±.13	**91.2W**±.12	**4**	**4.1b**	**22**	**1-150**
EIDC	XII	09 23 42 03.1±1.48	14.5N	90.9W	0	3.9b,3.4s		¶97xii2257
NEIC	XII	09 23 42 05.9	14.51N	90.96W	33	4.2b		
MEX	XII	09 23 42 10.0	14.3N	91.7W	4	4.6D		
EIDC	Error ellipse is semi−major=165.2km semi−minor=18.8km azimuth=59							
NEIC	Less reliable solution.							
EIDC	**XII**	**18 08 28 12.6**±3.66	**14.3N**	**91.8W**	**0**	3.3L,4.2b		**19-146**
								¶97xii3739
EIDC	Error ellipse is semi−major=179.1km semi−minor=68.8km azimuth=57							
ISC	**XII**	**26 13 19 21**±6.1	**14.8N**±.83	**91.5W**±.39	**33**	**3.8b**	**6**	**18-145**
EIDC	XII	26 13 19 14.5±3.46	14.3N	91.6W	0	3.9b,3.4L		¶97xii5131
NEIC	XII	26 13 19 18.2	14.48N	91.61W	33	3.9b		
EIDC	Error ellipse is semi−major=82.8km semi−minor=46.0km azimuth=26							
NEIC	Poor solution.							
EIDC	**XII**	**28 06 51 20.1**±2.64	**15.9N**	**89.4W**	**0**	3.5b,3.6L		**19-51**
								¶97xii5414
EIDC	Error ellipse is semi−major=155.4km semi−minor=26.4km azimuth=49							

(71) Near coast of Guatemala.

ISC	**VII**	**03 05 42 12**±7.6	**13.1N**±.20	**91.5W**±.27	**22**±54	**3.9b**	**9**	**2-64**
EIDC	VII	03 05 42 10.8	13.2N	91.4W	0	3.9b,3.4L		¶97vii0364
ISC	**VII**	**05 06 50 08**±3.9	**13.9N**±.43	**90.7W**±.22	**33**	**3.7b**	**8**	**2-63**
EIDC	VII	05 06 50 00.9	13.3N	90.6W	0	3.5b		¶97vii0695
ISC	**VII**	**06 15 31 36**±1.8	**13.8N**±.20	**90.9W**±.16	**108**±17	**3.7b**	**19**	**2-147**
NEIC	VII	06 15 31 33.5	13.51N	91.10W	100	3.8b		¶97vii0900
EIDC	VII	06 15 31 37.8	13.9N	90.9W	106	3.4b,3.6s		
NEIC	Poor solution.							
ISC	**VIII**	**05 03 33 54**±1.9	**13.8N**±.13	**91.2W**±.11	**44**±14	**4.1b,**3.8s	**40**	**2-146**
EIDC	VIII	05 03 33 58.1	14.2N	90.7W	64	3.8b,3.8s		¶97viii0611
NEIC	VIII	05 03 33 59.3	13.78N	91.16W	100	4.0b		
MEX	VIII	05 03 34 05.1	14.3N	92.0W	18	4.4D		
NEIC	Less reliable solution.							
ISC	**IX**	**08 05 13 19.7**±.78	**13.7N**±.10	**91.96W**±.080	**27**	**4.4b**	**61**	**1-148**
NEIC	IX	08 05 13 18.1	13.54N	91.92W	27	4.5b		¶97ix1179
EIDC	IX	08 05 13 19.1	13.3N	92.2W	26	4.1b,3.9s		
NEIC	Less reliable solution.							
ISC	**IX**	**08 05 20 56**±6.5	**13.5N**±.16	**91.9W**±.18	**19**±47	**3.9b**	**19**	**1-147**
NEIC	IX	08 05 20 56.9	13.45N	91.93W	33	4.1b		¶97ix1180
EIDC	IX	08 05 20 57.5	13.4N	92.0W	27	3.5b,3.3L		
NEIC	Less reliable solution.							
ISC	**IX**	**12 01 19 37**±1.6	**13.4N**±.19	**91.5W**±.28	**160**±16	**3.7b**	**17**	**2-147**
EIDC	IX	12 01 19 47.3	13.4N	91.4W	245	3.3b		¶97ix1758
ISC	**IX**	**15 11 13 08**±2.9	**13.5N**±.32	**91.7W**±.16	**33**	**4.1b,**3.4s	**16**	**2-147**
EIDC	IX	15 11 12 59.5	12.7N	91.6W	0	3.9b,4.0L		¶97ix2234
NEIC	IX	15 11 13 06.5	13.32N	91.77W	33	4.4b		
NEIC	Poor solution.							
ISC	**XI**	**27 18 40 40**±1.2	**13.8N**±.42	**91.3W**±.63	**33**	**3.9b**	**12**	**19-146**
EIDC	XI	27 18 40 40.9	14.4N	91.1W	0	3.9b,4.0L		¶97xi4920
NEIC	XI	27 18 40 44.4	14.48N	91.15W	33	3.9b		
NEIC	Poor solution.							
ISC	**XII**	**02 17 48 46**±1.4	**13.5N**±.18	**90.98W**±.080	**76**	**4.3b**	**42**	**2-151**
NEIC	XII	02 17 48 47.6	13.78N	90.67W	76	4.5b		¶97xii0289
MEX	XII	02 17 48 50.4	14.4N	90.9W	130	4.7D		
EIDC	XII	02 17 48 50.9±.66	14.3N	90.2W	76±4.0	4.0b,4.1s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=27.1km semi−minor=17.6km azimuth=61							
ISC	**XII**	**04 14 56 40.3**±.44	**13.58N**±.043	**90.75W**±.031	**69**±3.9	**5.1b**	**279**	**1-161**
EIDC	XII	04 14 56 41.1±4.29	13.7N	90.5W	60±39.3	4.8b,5.4s		¶97xii0634
BJI	XII	04 14 56 41.7	13.60N	90.70W	80	5.9s		
NEIC	XII	04 14 56 41.7	13.64N	90.66W	81	5.2b,5.4s		
HRVD	XII	04 14 56 42.7±.2	13.56N±.02	91.25W±.02	36±1.1			
MEX	XII	04 14 56 49.1	13.9N	91.5W	12	5.1D		
EIDC	Error ellipse is semi−major=22.4km semi−minor=11.3km azimuth=64							
NEIC	Mw6.0(HRV), MD5.4(SSS)							
NEIC	Felt I=IV MM at San Salvador, El Salvador.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c78; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; Mrr7.56±.13; Mθθ−6.32±.17; Mϕϕ−1.24±.22; Mrθ4.82±.31; Mrϕ−3.50±.30; Mθϕ3.73±.15. Principal Axes: T 9.6,Plg71°,Azm44°; N 0.7, Plg4°,Azm301°; P −10.3,Plg18°,Azm209°. Best double couple: M0 9.9×10^{17}Nm, NP1: ϕS292°,δ27°,λ80°. NP2:ϕS123°,δ64°,λ95°.							
ISC	**XII**	**04 20 08 47**±1.1	**13.5N**±.12	**90.78W**±.071	**74**±7.7	**4.4b**	**74**	**1-151**
MEX	XII	04 20 08 47.6	13.7N	90.9W	26	5.0D		¶97xii0683
NEIC	XII	04 20 08 48.3	13.72N	90.67W	79	4.4b		
EIDC	XII	04 20 09 09.5±5.37	14.4N	90.8W	228±48.9	3.7b		
NEIC	MD4.4(SSS)							
NEIC	Felt I=III MM at San Salvador, El Salvador.							
EIDC	Error ellipse is semi−major=38.5km semi−minor=22.5km azimuth=57							
ISC	**XII**	**04 22 14 24.0**±.56	**13.51N**±.058	**90.80W**±.039	**69**±4.8	**4.9b**	**207**	**1-151**
MEX	XII	04 22 14 23.5	13.8N	90.8W	45	5.2D		¶97xii0701
HRVD	XII	04 22 14 24.7±.3	13.49N±.04	91.21W±.06	48±2.6			
NEIC	XII	04 22 14 26.2	13.64N	90.62W	87	5.0b,4.7s		
EIDC	XII	04 22 14 26.6±.41	13.7N	90.6W	72±2.5	4.6b		
BJI	XII	04 22 14 28.0	13.60N	90.60W	86	6.5s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c36; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; Mrr1.14±.06; Mθθ−1.32±.08; Mϕϕ0.18±.11; Mrθ0.75±.10; Mrϕ−0.65±.10; Mθϕ0.81±.06. Principal Axes: T 1.51,Plg67°,Azm69°; N 0.46, Plg15°,Azm300°; P −1.97,Plg17°,Azm206°. Best double couple: M0 1.7×10^{17}Nm, NP1: ϕS274°,δ31°,λ60°. NP2:ϕS128°,δ64°,λ106°.							
NEIC	Mw5.5(HRV), MD5.1(SSS)							
NEIC	Felt I=III MM at San Salvador, El Salvador.							
EIDC	Error ellipse is semi−major=18.9km semi−minor=9.6km azimuth=58							
ISC	**XII**	**13 03 51 34**±3.9	**13.8N**±.12	**90.9W**±.12	**183**±38	**4.0b**	**42**	**18-146**
NEIC	XII	13 03 51 27.2	13.95N	90.89W	100	4.2b		¶97xii2875
EIDC	XII	13 03 51 28.7±6.33	14.4N	90.4W	90±59.7	3.9b,4.3s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=51.1km semi−minor=18.1km azimuth=54							

ISC	**XII**	**22 10 03 44.9**±.84	**13.72N**±.047	**90.29W**±.042	**57**±7.8	**5.1b,5.5s**	**296 2-151**
BJI	XII	22 10 03 45.1	13.70N	90.30W	59	6.2s	**¶97xii4398**
NEIC	XII	22 10 03 45.1	13.74N	90.32W	59	5.1b	
HRVD	XII	22 10 03 51.1±.1	13.62N±.01	90.84W±.02	56±1.3		
EIDC	XII	22 10 03 51.7±4.67	13.9N	90.2W	97±40.8	4.5b,5.5s	
MEX	XII	22 10 03 53.2	14.0N	90.8W	81	5.2D	

NEIC Mw6.1(HRV), M_D5.2(UNM)
NEIC Mw 6.0 (GS). Felt in western El Salvador and at San Salvador.
NEIC Moment tensor solution: s30, scale 10^{17}Nm; M_{rr}6.40; $M_{\theta\theta}$−1.10; $M_{\phi\phi}$−5.30; $M_{r\theta}$9.00; $M_{r\phi}$−6.10; $M_{\theta\phi}$3.70. Depth 49km; Principal axes: T 13.0,Plg58°,Azm20°; N −0.1,Plg13°, Azm132°; P −12.9,Plg29°,Azm229°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S351°,δ20°, λ131°. NP2:ϕ_S128°,δ75°,λ77°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c108; Mantle waves: s8,c10; Half duration: 2s7. Moment tensor: Scale 10^{17}Nm; M_{rr}5.46±.14; $M_{\theta\theta}$−8.52±.19; $M_{\phi\phi}$3.07±.24; $M_{r\theta}$9.06±.20; $M_{r\phi}$−7.90±.20; $M_{\theta\phi}$2.97±.17. Principal Axes: T 13.6,Plg54°,Azm64°; N 1.6,Plg20°,Azm304°; P −15.2,Plg29°,Azm203°. Best double couple: $M_0$1.4×10^{18}Nm, NP1:ϕ_S251°,δ24°,λ34°. NP2:ϕ_S129°,δ77°,λ111°.
EIDC Error ellipse is semi−major=24.1km semi−minor=15.5km azimuth=49

ISC	**XII**	**22 13 17 45**±2.1	**13.6N**±.11	**90.4W**±.13	**63**±22	**4.4b**	**37 2-147**
NEIC	XII	22 13 17 46.5	13.65N	90.59W	73	4.6b	**¶97xii4427**
EIDC	XII	22 13 17 48.1±.68	13.9N	90.2W	64±3.5	3.9b,4.0s	
MEX	XII	22 13 17 53.4	14.1N	90.7W	13	5.0D	

NEIC Less reliable solution.
NEIC Felt in western El Salvador and at San Salvador.
EIDC Error ellipse is semi−major=24.3km semi−minor=14.4km azimuth=69

SEISMIC REGION 6.
CENTRAL AMERICA.

(72) Honduras.

ISC	**IX**	**13 10 33 09**±1.1	**13.5N**±.15	**87.5W**±.18	**300**	**3.8b**	**23 21-148**
NEIC	IX	13 10 33 09.5	13.48N	87.54W	300	4.2b	**¶97ix1964**
EIDC	IX	13 10 33 12.0	13.5N	87.5W	310	3.5b	

NEIC Less reliable solution.

ISC	**X**	**18 14 17 46**±1.1	**13.1N**±.15	**87.7W**±.22	**200**	**3.8b**	**14 21-139**
NEIC	X	18 14 17 45.6	13.15N	87.67W	200	4.1b	**¶97x3173**
EIDC	X	18 14 17 48.8	13.2N	87.5W	217	3.5b	

NEIC Less reliable solution.

ISC	**X**	**18 19 10 16.0**±.94	**14.75N**±.071	**88.9W**±.12	**50**±13	**4.2b,3.8s**	**47 1-149**
NEIC	X	18 19 10 14.1	14.74N	88.90W	33	4.6b	**¶97x3216**
EIDC	X	18 19 10 17.3	14.7N	88.9W	44	3.9b,4.0s	

NEIC Less reliable solution.
NEIC Felt I=II MM at San Salvador, El Salvador.

EIDC	**XII**	**22 11 15 46.3**±3.92	**14.8N**	**87.4W**	**0**	**3.7b**	**20-146**
EIDC	Error ellipse is semi−major=96.2km semi−minor=55.9km azimuth=30						**¶97xii4413**

(73) El Salvador.

ISC	**VIII**	**24 00 59 43**±1.1	**13.30N**±.052	**89.59W**±.050	**72**±10	**5.1b**	**357 3-164**
EIDC	VIII	24 00 59 41.0	13.5N	89.4W	29	4.9b	**¶97viii3470**
HRVD	VIII	24 00 59 46.8±.4	13.40N±.04	89.91W±.06	38±4.6		
NEIC	VIII	24 00 59 51.6	13.55N	89.59W	139	5.1b	
BJI	VIII	24 00 59 52.6	13.50N	89.60W	139		
MEX	VIII	24 01 00 04.1	13.9N	91.3W	65	5.1D	

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c27; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.13±.09; $M_{\theta\theta}$2.41±.13; $M_{\phi\phi}$−1.28±.16; $M_{r\theta}$1.38±.25; $M_{r\phi}$−1.31±.22; $M_{\theta\phi}$−0.47±.10. Principal Axes: T 3.07,Plg21°,Azm13°; N −0.47, Plg36°,Azm119°; P −2.60,Plg47°,Azm259°. Best double couple: $M_0$2.8×10^{17}Nm, NP1: ϕ_S59°,δ40°,λ−156°. NP2:ϕ_S310°,δ75°,λ−53°.
NEIC Mw5.6(HRV).

ISC	**IX**	**16 23 43 56**±2.1	**13.13N**±.092	**89.2W**±.12	**104**±21	**4.1b**	**32 3-148**
NEIC	IX	16 23 43 56.0	13.20N	89.13W	100	4.2b	**¶97ix2443**
EIDC	IX	16 23 43 58.7	13.4N	88.8W	108	3.8b,3.5s	

NEIC Less reliable solution.

ISC	**X**	**08 12 47 26**±6.5	**13.2N**±.76	**88.4W**±.30	**300**	**3.9b**	**14 21-150**
NEIC	X	08 12 47 31.2	13.80N	88.61W	300	4.4b	**¶97x1417**
EIDC	X	08 12 47 31.9	13.8N	88.5W	293	4.0b	

NEIC Poor solution.

EIDC	**X**	**21 09 45 09.0**	**13.9N**	**88.9W**	**0**	3.6b	**¶97x3634**
ISC	**XI**	**09 22 56 43.9**±.27	**13.89N**±.032	**88.80W**±.030	**183**±2.9	**5.6b**	**556 0-160**
BJI	XI	09 22 56 42.7	13.80N	88.80W	176		**¶97xi1521**
NEIC	XI	09 22 56 42.7	13.85N	88.81W	176	5.6b	
MOS	XI	09 22 56 43.2	13.6N	89.0W	193	5.8b	
EIDC	XI	09 22 56 46.8	13.9N	88.6W	191	5.1b	
HRVD	XI	09 22 56 51.3±.1	13.88N±.01	89.30W±.01	178±.4		

NEIC Mw6.5(GS), Me5.7(GS)
NEIC Mw 6.4 (HRV). Mb 6.1 (BRK). MD 5.0 (SSS). Felt I=IV MM at San Salvador.
NEIC Radiated energy from the P−wave first−motion solution: 6.9±2.0×10^{12}Nm/11
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S315°,δ30°,λ90°. NP2:ϕ_S135°,δ60°,λ90°. Principal axes: T Plg75°,Azm45°; P Plg15°,Azm225°. Depth from broadband displacement seismograms.
NEIC Moment tensor solution: s40, scale 10^{18}Nm; M_{rr}3.31; $M_{\theta\theta}$−2.43; $M_{\phi\phi}$−0.89; $M_{r\theta}$2.93; $M_{r\phi}$−2.55; $M_{\theta\phi}$2.35. Depth 184km; Principal axes: T 4.98,Plg67°,Azm47°; N 0.80,Plg4°, Azm309°; P −5.78,Plg23°,Azm217°. Best double couple: $M_0$5.4×10^{18}Nm; NP1:ϕ_S300°,δ22°, λ81°. NP2:ϕ_S130°,δ68°,λ94°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c101; Mantle waves: s32,c47; Half duration: 3s8. Moment tensor: Scale 10^{18}Nm; M_{rr}2.07±.03; $M_{\theta\theta}$−1.09±.05; $M_{\phi\phi}$−0.98±.05; $M_{r\theta}$2.38±.03; $M_{r\phi}$−2.38±.02; $M_{\theta\phi}$0.74±.05. Principal Axes: T 4.03,Plg60°,Azm46°; N −0.30,Plg1°,Azm315°; P −3.73,Plg30°,Azm224°. Best double couple: $M_0$3.9×10^{18}Nm, NP1:ϕ_S312°,δ15°,λ87°. NP2:ϕ_S135°,δ75°,λ91°.

ISC	**XI**	**12 21 54 13.8**±.38	**13.55N**±.054	**89.55W**±.043	**89**±2.9	**4.7b**	**167 0-163**
EIDC	XI	12 21 54 04.9	13.6N	89.0W	0	4.7b	**¶97xi2038**
BJI	XI	12 21 54 14.6	13.70N	89.40W	89	5.8s	
NEIC	XI	12 21 54 14.6	13.70N	89.36W	89	4.8b	
MEX	XI	12 21 54 33.2	13.9N	91.2W	16	5.2D	

NEIC M_D4.6(SSS)
NEIC Felt I=IV MM at San Salvador.

ISC	**XI**	**20 01 30 30**±1.1	**13.5N**±.33	**89.5W**±.54	**33**	**3.6b**	**8 21-147**
NEIC	XI	20 01 30 30.0	13.50N	89.45W	33		**¶97xi3359**
EIDC	XI	20 01 30 37.8	13.4N	89.6W	91	3.2b,3.6s	

NEIC Poor solution.

ISC	**XII**	**01 20 01 36**±1.2	**13.9N**±.31	**88.6W**±.45	**33**	**3.8b**	**10 21-147**
EIDC	XII	01 20 01 32.7±1.16	13.8N	88.5W	0	3.7b	**¶97xii0138**
NEIC	XII	01 20 01 35.6	13.82N	88.59W	33		

EIDC Error ellipse is semi−major=74.6km semi−minor=17.5km azimuth=55
NEIC Single network solution.

ISC	**XII**	**18 15 02 00.7**±.17	**13.83N**±.032	**88.76W**±.026	**186**±.8*	**5.3b**	**485 4-164**
BJI	XII	18 15 02 00.3	13.80N	88.70W	182		**¶97xii3785**
NEIC	XII	18 15 02 00.3	13.84N	88.74W	182	5.3b	
EIDC	XII	18 15 02 02.0±.24	13.8N	88.8W	179±1.8	5.1b,5.0s	
HRVD	XII	18 15 02 05.0±.1	13.94N±.01	89.19W±.01	178±.5		
MOS	XII	18 15 02 07.7	13.8N	89.0W	261	5.7b	
MEX	XII	18 15 02 13.9	14.7N	89.7W	152	5.1D	

NEIC Mw6.1(GS), Me5.3(GS).
NEIC Mw 6.0 (HRV). Depth from broadband displacement seismograms.
NEIC Radiated energy from the USGS moment tensor solution: 1.7±0.4×10^{12}Nm/11
NEIC Moment tensor solution: s38, scale 10^{17}Nm; M_{rr}8.80; $M_{\theta\theta}$−5.60; $M_{\phi\phi}$−3.20; $M_{r\theta}$8.30; $M_{r\phi}$−6.90; $M_{\theta\phi}$6.90. Depth 179km; Principal axes: T 13.5,Plg66°,Azm39°; N 2.6,Plg0°, Azm130°; P −16.1,Plg24°,Azm220°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S310°,δ22°, λ91°. NP2:ϕ_S130°,δ69°,λ90°.
EIDC Error ellipse is semi−major=12.4km semi−minor=7.0km azimuth=70
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c103; Mantle waves: s36,c48; Half duration: 2s6. Moment tensor: Scale 10^{17}Nm; M_{rr}6.43±.10; $M_{\theta\theta}$−2.52±.15; $M_{\phi\phi}$−3.90±.17; $M_{r\theta}$6.90±.09; $M_{r\phi}$−6.67±.10; $M_{\theta\phi}$2.13±.14. Principal Axes: T 11.8,Plg61°,Azm41°; N −1.1,Plg3°,Azm137°; P −10.7,Plg29°,Azm229°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S328°,δ16°,λ102°. NP2:ϕ_S136°,δ74°,λ86°.

(74) Near coast of Nicaragua.

ISC	**VII**	**06 01 36 40.9**±.35	**11.82N**±.058	**86.82W**±.057	**33**	**4.7b,4.5s**	**116 5-151**
EIDC	VII	06 01 36 39.0	11.9N	87.1W	11	4.4b,4.4s	**¶97vii0818**
BJI	VII	06 01 36 39.6	11.70N	86.90W	33		
NEIC	VII	06 01 36 39.6	11.65N	86.98W	33	4.8b,4.5s	

ISC	**VII**	**09 14 50 08.7**±.83	**12.0N**±.18	**86.7W**±.28	**50**	**4.4b**	**16 23-149**
EIDC	VII	09 14 50 03.3	11.8N	86.9W	0	4.2b	**¶97vii1356**
NEIC	VII	09 14 50 08.6	11.94N	86.70W	50	4.6b	

NEIC Poor solution.

ISC	**VII**	**14 10 21 06**±4.6	**11.2N**±.54	**87.8W**±.27	**33**	**4.1b,**3.7s	**16 22-150**
NEIC	VII	14 10 21 06.2	11.17N	87.80W	33	4.3b	**¶97vii2105**
EIDC	VII	14 10 21 59.2	14.0N	88.5W	352	3.2b,3.6s	

NEIC Poor solution.

ISC	**VIII**	**13 10 19 04**±5.4	**11.4N**±.65	**87.6W**±.31	**33**	**3.9b**	**11 22-139**
EIDC	VIII	13 10 19 10.4	13.2N	87.0W	0	3.5b	**¶97viii1890**

ISC	**VIII**	**13 12 24 14**±5.8	**12.2N**±.11	**87.5W**±.15	**243**±61	**4.1b**	**32 21-149**
NEIC	VIII	13 12 23 52.8	11.96N	87.67W	33	4.4b	**¶97viii1906**
EIDC	VIII	13 12 24 02.1	12.2N	87.6W	102	4.0b,3.3s	

NEIC Less reliable solution.

ISC	**VIII**	**17 02 50 41.0**±.84	**11.4N**±.12	**86.9W**±.11	**33**	**4.3b,3.6s**	**41 20-150**
NEIC	VIII	17 02 50 40.9	11.35N	86.96W	33	4.5b	**¶97viii2463**
EIDC	VIII	17 02 50 41.5	11.5N	86.8W	24	4.1b,3.6s	

NEIC Less reliable solution.

ISC	**VIII**	**19 10 46 56**±1.1	**12.0N**±.31	**87.2W**±.46	**33**	**3.9b**	**12 23-142**
EIDC	VIII	19 10 46 52.4	11.9N	87.4W	0	4.3b	**¶97viii2795**
NEIC	VIII	19 10 46 55.6	11.89N	87.46W	33		

NEIC Poor solution.

ISC	**VIII**	**20 00 40 54.3**±.82	**11.7N**±.11	**86.5W**±.14	**48**	**4.3b**	**27 22-140**
NEIC	VIII	20 00 40 54.2	11.76N	86.51W	48	4.5b	**¶97viii2888**
EIDC	VIII	20 00 40 55.4	11.9N	86.4W	41	4.0b	

NEIC Less reliable solution.

ISC	**VIII**	**25 04 09 23.1**±.63	**11.55N**±.087	**87.9W**±.12	**33**	**4.3b,3.4s**	**35 22-149**
EIDC	VIII	25 04 09 20.0	11.7N	87.8W	0	4.2b,3.5s	**¶97viii3643**
NEIC	VIII	25 04 09 22.6	11.50N	87.98W	33	4.4b	

NEIC Less reliable solution.

ISC	**IX**	**01 09 25 07**±1.4	**12.7N**±.22	**87.2W**±.36	**33**	**3.8b**	**5 22-36**
EIDC	IX	01 09 25 04.0	12.8N	87.2W	0	3.7b	**¶97ix0082**
NEIC	IX	01 09 25 06.7	12.67N	87.27W	33	4.0b	

NEIC Poor solution.

EIDC	**IX**	**10 02 35 56.3**	**11.2N**	**87.7W**	**0**	**3.9b**	**¶97ix1466**
EIDC	**X**	**02 17 55 01.0**	**12.1N**	**87.6W**	**0**	**4.2b**	**¶97x0322**
EIDC	**X**	**25 15 05 48.5**	**11.7N**	**87.2W**	**0**	**3.6b**	**¶97x4343**
EIDC	**X**	**27 08 36 58.8**	**11.3N**	**87.5W**	**0**	**3.7b,**3.4s	**¶97x4592**

ISC	**XI**	**08 13 34 30**±5.9	**12.2N**±.70	**87.3W**±.29	**200**	**4.0b**	**23 21-149**
NEIC	XI	08 13 34 34.3	12.71N	87.48W	200	4.2b	**¶97xi1288**
EIDC	XI	08 13 34 45.8	13.2N	87.6W	273	3.6b	

NEIC Less reliable solution.

ISC	**XI**	**08 23 16 24.1**±.68	**11.51N**±.095	**87.1W**±.12	**33**	**4.5b,**3.7s	**41 22-155**
NEIC	XI	08 23 16 23.9	11.49N	87.20W	33	4.7b,3.7s	**¶97xi1361**
EIDC	XI	08 23 16 23.9	11.4N	87.2W	20	4.2b	

NEIC Less reliable solution.

ISC	**XI**	**20 01 54 20**±7.1	**12.5N**±.17	**87.0W**±.22	**174**±72	**4.0b**	**17 19-140**
NEIC	XI	20 01 54 14.2	12.41N	87.05W	112	4.2b	**¶97xi3366**
EIDC	XI	20 01 54 15.8	12.5N	87.0W	113	3.6b	

NEIC Less reliable solution.

ISC	**XI**	**20 19 52 58**±6.6	**11.8N**±.77	**86.4W**±.39	**300**	**3.8b**	**14 23-149**
NEIC	XI	20 19 52 57.5	11.71N	86.48W	300	3.9b	**¶97xi3526**
EIDC	XI	20 19 53 07.4	11.8N	86.5W	382	3.4b	

NEIC Poor solution.

ISC	**XI**	**21 05 59 06**±7.0	**11.3N**±.83	**86.3W**±.61	**33**	**3.7b**	**5 24-67**
EIDC	XI	21 05 59 02.4	11.2N	86.4W	0	3.6b	**¶97xi3599**

ISC	**XI**	**26 10 44 32**±6.4	**11.1N**±.14	**86.3W**±.12	**227**±63	**4.2b**	**32 22-151**
NEIC	XI	26 10 44 29.8	11.08N	86.32W	200	4.7b	**¶97xi4672**
EIDC	XI	26 10 44 33.5	11.2N	86.1W	222	3.7b	

NEIC Less reliable solution.

ISC	**XI**	**26 11 03 03**±5.4	**11.1N**±.63	**86.5W**±.31	**200**	**3.9b**	**17 22-150**
NEIC	XI	26 11 03 07.6	11.63N	86.73W	200	4.5b	**¶97xi4673**
EIDC	XI	26 11 03 17.4	12.0N	86.6W	262	3.5b	

NEIC Poor solution.

ISC	**XI**	**26 11 27 57**±3.8	**11.1N**±.75	**87.6W**±.58	**150**	**3.5b**	**6 23-150**
EIDC	XI	26 11 27 59.3	10.8N	87.9W	178	3.3b	**¶97xi4677**

ISC	**XI**	**29 14 19 02**±1.1	**11.30N**±.052	**86.11W**±.063	**98**±12	**4.9b**	**176 6-151**
BJI	XI	29 14 18 55.6	11.20N	86.40W	33	6.0s	**¶97xi5278**
NEIC	XI	29 14 18 55.6	11.22N	86.37W	33	5.1b,5.3s	
MOS	XI	29 14 18 56.4	11.3N	86.6W	33	5.2b,5.5s	
EIDC	XI	29 14 18 56.9	11.6N	85.7W	29	4.6b,5.3s	
HRVD	XI	29 14 19 00.1±.2	10.66N±.03	86.62W±.03	44±2.8		

NEIC Mw5.7(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c57; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}1.12±.07; $M_{\theta\theta}$−0.28±.10; $M_{\phi\phi}$−0.83±.12; $M_{r\theta}$2.69±.15; $M_{r\phi}$−2.97±.17; $M_{\theta\phi}$1.40±.09. Principal Axes: T 3.86,Plg55°,Azm45°; N 0.86, Plg2°,Azm138°; P −4.72,Plg34°,Azm229°. Best double couple: $M_0$4.3×10^{17}Nm, NP1: ϕ_S328°,δ11°,λ100°. NP2:ϕ_S138°,δ79°,λ88°.

ISC	**XII**	**14 00 34 54.4**±.74	**12.0N**±.11	**87.9W**±.16	**33**	**4.4b,**3.7s	**25 22-151**
NEIC	XII	14 00 34 54.2	11.97N	87.89W	33	4.5b	**¶97xii3047**
EIDC	XII	14 00 34 59.1±6.91	12.1N	88.0W	56±63.5	4.1b,3.7s	

NEIC Less reliable solution.
EIDC Error ellipse is semi−major=41.7km semi−minor=20.4km azimuth=61

ISC	**XII**	**20 04 21 36**±1.9	**11.5N**±.31	**87.9W**±.23	**33**	**4.1b**	**14 23-149**
EIDC	XII	20 04 21 32.8±1.44	11.8N	87.7W	0	4.0b	**¶97xii4078**
NEIC	XII	20 04 21 36.6	11.77N	87.79W	33	4.5b	

EIDC Error ellipse is semi−major=43.4km semi−minor=30.8km azimuth=57

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC		Poor solution.						

(75) Nicaragua.

ISC	**VII**	**04 10 52 44**±1.1	**12.5N**±.23	**86.7W**±.29	**33**	**3.7b**	**11**	**23-140**
EIDC	VII	04 10 52 40.5	12.5N	86.7W	0	3.7b		¶97vii0542
NEIC	VII	04 10 52 43.1	12.42N	86.76W	33	4.0b		
NEIC		Less reliable solution.						
ISC	**VII**	**25 19 50 00.1**±.82	**12.1N**±.13	**86.5W**±.22	**150**	**3.7b**	**12**	**23-140**
EIDC	VII	25 19 49 45.1	12.1N	86.5W	0	3.9b		¶97vii3867
NEIC	VII	25 19 49 55.0	12.09N	86.42W	100			
NEIC		Less reliable solution.						
ISC	**VII**	**30 00 05 10**±1.0	**11.5N**±.18	**85.8W**±.23	**33**	**3.9b**,3.6s	**13**	**24-150**
EIDC	VII	30 00 05 06.5	11.7N	85.7W	0	3.9b,3.7s		¶97vii4506
NEIC	VII	30 00 05 09.6	11.50N	85.84W	33	3.9b		
NEIC		Poor solution.						
ISC	**IX**	**02 11 38 15.4**±.68	**11.6N**±.13	**85.8W**±.17	**200**	**3.8b**	**20**	**24-150**
NEIC	IX	02 11 38 15.8	11.63N	85.75W	200	4.0b		¶97ix0269
EIDC	IX	02 11 38 17.4	11.6N	85.8W	202	3.6b		
NEIC		Less reliable solution.						
EIDC	**IX**	**06 16 03 07.9**	**13.1N**	**83.6W**	**0**	**3.8b**		**¶97ix0943**
ISC	**X**	**05 16 21 42.8**±.98	**12.4N**±.13	**86.9W**±.16	**175**	**4.1b**	**26**	**23-149**
NEIC	X	05 16 21 43.8	12.57N	86.90W	175	4.4b		¶97x0888
EIDC	X	05 16 21 44.8	12.5N	87.0W	177	3.8b		
NEIC		Less reliable solution.						
EIDC	**X**	**06 18 41 54.3**	**11.8N**	**85.8W**	**359**	**3.2b**		**¶97x1101**
ISC	**XI**	**06 17 29 08.5**±.21	**11.72N**±.038	**85.81W**±.033	**119**±1.0*	**5.1b**	**291**	**4-154**
BJI	XI	06 17 29 07.9	11.70N	85.80W	116			¶97xi1006
NEIC	XI	06 17 29 07.9	11.69N	85.79W	117	5.1b		
EIDC	XI	06 17 29 09.9	11.8N	85.6W	122	4.7b		
HRVD	XI	06 17 29 11.1±.3	11.40N±.03	86.19W±.04	131±1.6			
NEIC		M_D5.7(SSS), Mw5.6(HRV). Felt I=III MM.						
NEIC		MD 5.1 (UPA). Felt I=III MM at San Salvador, El Salvador.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c46; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.48±.07; $M_{\theta\theta}$−0.41±.14; $M_{\phi\phi}$−1.07±.15; $M_{r\theta}$0.74±.08; $M_{r\phi}$−1.91±.08; $M_{\theta\phi}$−1.09±.12. Principal Axes: T 2.91,Plg54°,Azm55°; N −0.59, Plg27°,Azm191°; P −2.32,Plg21°,Azm292°. Best double couple: M_O2.6×10^{17}Nm, NP1: ϕ_S61°,δ34°,λ145°. NP2:ϕ_S181°,δ72°,λ61°.						
ISC	**XI**	**22 03 44 14**±1.4	**11.2N**±.25	**85.8W**±.27	**33**	**3.9b**	**10**	**24-68**
NEIC	XI	22 03 44 14.3	11.23N	85.85W	33	4.1b		¶97xi3796
EIDC	XI	22 03 44 14.6	11.1N	86.1W	27	3.8b		
NEIC		Poor solution.						
ISC	**XII**	**11 16 37 03**±6.3	**12.4N**±.74	**86.9W**±.36	**300**	**3.9b**	**21**	**23-149**
NEIC	XII	11 16 37 03.7	12.52N	86.98W	300	4.5b		¶97xii2603
EIDC	XII	11 16 37 04.7±2.77	12.5N	87.1W	297±14.3	3.4b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=59.4km semi−minor=45.1km azimuth=75						
ISC	**XII**	**15 04 39 25**±1.2	**12.7N**±.34	**86.4W**±.47	**33**	**3.8b**	**7**	**23-149**
EIDC	XII	15 04 39 22.5±1.26	12.5N	87.1W	0	3.8b		¶97xii3244
EIDC		Error ellipse is semi−major=89.9km semi−minor=18.3km azimuth=54						
EIDC	**XII**	**26 06 15 46.2**	**11.3N**	**85.0W**	**0**	**3.2b**		**25-143**
								¶97xii5067
EIDC		Origin time error = 12.95Error ellipse is semi−major=292.9km semi−minor=108.9km azimuth=7						
EIDC	**XII**	**28 11 12 04.8**±5.48	**12.5N**	**86.5W**	**56**±8.8	**3.6b**		**23-140**
EIDC		Error ellipse is semi−major=102.5km semi−minor=56.3km azimuth=4						¶97xii5446

(76) Off coast of Central America.

ISC	**VII**	**08 08 59 10**±1.4	**12.90N**±.091	**89.60W**±.087	**103**±13	**4.3b**	**52**	**3-148**
NEIC	VII	08 08 59 00.1	12.77N	89.55W	21	4.6b		¶97vii1161
EIDC	VII	08 08 59 02.2	12.9N	89.2W	20	4.1b,4.1s		
NEIC		Less reliable solution.						
ISC	**VII**	**15 07 57 08**±4.2	**11.9N**±.50	**89.2W**±.31	**33**	**4.0b**,3.4s	**9**	**22-66**
EIDC	VII	15 07 57 05.1	11.9N	89.1W	0	3.9b,3.5s		¶97vii2271
NEIC	VII	15 07 57 08.1	11.92N	89.23W	33	4.2b		
NEIC		Poor solution.						
EIDC	**VII**	**19 14 32 58.0**	**12.6N**	**92.8W**	**0**	**3.7b**,3.4L		**9-64**
MEX	VII	19 14 33 27.9	16.7N	97.6W	16	4.3D		¶97vii2889
ISC	**VII**	**22 10 04 16**±5.0	**11.7N**±.66	**88.2W**±.63	**33**	**3.7b**	**7**	**23-149**
NEIC	VII	22 10 04 15.8	11.64N	88.20W	33	4.1b		¶97vii3357
EIDC	VII	22 10 04 16.8	11.4N	88.6W	28	3.4b		
NEIC		Poor solution.						
ISC	**VII**	**26 04 02 06**±5.1	**12.4N**±.61	**90.7W**±.24	**33**	**4.1b**	**10**	**21-65**
EIDC	VII	26 04 02 06.2	12.9N	90.6W	0	3.9b		¶97vii3911
EIDC	**VII**	**31 12 55 44.4**	**11.7N**	**88.4W**	**0**	**3.3b**		**23-66**
								¶97vii4732
ISC	**VIII**	**10 22 42 15**±2.7	**12.53N**±.091	**88.6W**±.11	**114**±27	**4.3b**	**47**	**4-148**
NEIC	VIII	10 22 42 11.1	12.60N	88.58W	70	4.6b		¶97viii1472
EIDC	VIII	10 22 42 14.3	12.8N	88.4W	77	4.0b,4.0s		
NEIC		Less reliable solution.						
ISC	**VIII**	**31 14 13 50**±1.2	**12.78N**±.039	**88.33W**±.049	**80**±11	**5.0b**	**252**	**8-163**
EIDC	VIII	31 14 13 49.8	12.9N	88.2W	51	5.0b		¶97viii4664
NEIC	VIII	31 14 14 00.2	12.84N	88.27W	178	4.9b		
BJI	VIII	31 14 14 02.2	12.80N	88.30W	178			
MEX	VIII	31 14 14 17.5	13.6N	90.3W	69	5.1D		
ISC	**X**	**05 09 45 35.2**±.55	**11.91N**±.048	**88.12W**±.044	**38**±5.0	**5.0b,4.5s**	**182**	**2-165**
HRVD	X	05 09 45 35.0±.4	11.71N±.05	88.67W±.05	16±2.2			¶97x0845
EIDC	X	05 09 45 36.4	12.0N	88.1W	38	4.7b,4.5s		
BJI	X	05 09 45 37.9	11.80N	88.00W	72	5.6s		
NEIC	X	05 09 45 37.9	11.83N	88.05W	72	5.1b		
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c63; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.12±.05; $M_{\theta\theta}$0.89±.05; $M_{\phi\phi}$0.24±.07; $M_{r\theta}$−0.23±.18; $M_{r\phi}$0.06±.16; $M_{\theta\phi}$−0.56±.04. Principal Axes: T 1.23,Plg6°,Azm210°; N −0.08, Plg3°,Azm120°; P −1.15,Plg84°,Azm1°. Best double couple: M_O1.2×10^{17}Nm, NP1:ϕ_S303°, δ40°,λ−85°. NP2:ϕ_S117°,δ51°,λ−94°.						
NEIC		Mw5.4(HRV)						
NEIC		Felt I=II MM at San Salvador, El Salvador.						
ISC	**X**	**13 20 26 40.5**±.93	**2.8N**±.19	**84.4W**±.32	**33**	**4.1b,3.9s**	**12**	**17-159**
NEIC	X	13 20 26 40.2	2.81N	84.42W	33	4.2b,4.0s		¶97x2281
EIDC	X	13 20 26 40.7	2.8N	84.4W	23	4.0b,3.9s		
NEIC		Poor solution.						
EIDC	**X**	**20 01 30 25.0**	**10.8N**	**92.2W**	**0**	**3.2b**		**¶97x3416**
EIDC	**XI**	**06 20 05 14.9**	**5.3N**	**83.6W**	**0**	3.3b		**¶97xi1022**
ISC	**XI**	**08 19 31 33**±8.8	**12.5N**±.98	**88.8W**±.41	**33**	**4.0b**,3.7s	**9**	**22-148**
EIDC	XI	08 19 31 30.0	12.5N	88.7W	0	3.9b,3.8s		¶97xi1339
EIDC	**XI**	**18 11 46 44.5**	**8.9N**	**87.7W**	**0**	**3.6b**		**¶97xi2956**
EIDC		LO CONF Location						
ISC	**XI**	**18 18 35 45**±1.2	**12.1N**±.17	**88.1W**±.36	**33**	**3.8b**	**9**	**22-149**
EIDC	XI	18 18 35 42.5	12.2N	88.1W	0	3.8b		**¶97xi3039**
NEIC	XI	18 18 35 45.2	12.11N	88.11W	33	4.4b		
NEIC		Poor solution.						
ISC	**XI**	**19 11 16 00**±2.6	**13.0N**±.28	**88.9W**±.30	**77**	**3.9b**	**22**	**1-148**
EIDC	XI	19 11 16 01.3	13.3N	88.6W	66	3.7b,3.5s		¶97xi3202
NEIC	XI	19 11 16 02.1	13.24N	88.98W	77	4.1b		
NEIC		M_D3.5(SSS). Felt I=III MM, Poor solution.						
NEIC		Felt I=III MM at San Salvador.						
ISC	**XII**	**01 03 35 51**±1.1	**4.8N**±.27	**87.4W**±.41	**33**	**3.7b**	**5**	**28-82**
EIDC	XII	01 03 35 48.1±1.17	4.9N	87.3W	0	3.9b		¶97xii0027
EIDC		Error ellipse is semi−major=66.6km semi−minor=21.6km azimuth=58						
ISC	**XII**	**08 12 14 58**±1.2	**12.1N**±.14	**90.2W**±.27	**33**	**4.0b**	**9**	**21-65**
NEIC	XII	08 12 14 57.6	12.09N	90.25W	33	4.5b		¶97xii1923
EIDC	XII	08 12 15 02.7±9.73	12.1N	90.1W	57±93.0	3.3b		
NEIC		Poor solution.						
EIDC		Error ellipse is semi−major=49.2km semi−minor=25.4km azimuth=77						
ISC	**XII**	**10 20 15 34.1**±.73	**2.6N**±.25	**83.3W**±.50	**33**	**4.0b**,3.3s	**9**	**16-74**
EIDC	XII	10 20 15 31.2±1.01	2.8N	83.0W	0	4.0b,3.5s		¶97xii2421
NEIC	XII	10 20 15 33.8	2.65N	83.25W	33	4.1b		
EIDC		Error ellipse is semi−major=101.9km semi−minor=18.3km azimuth=65						
NEIC		Poor solution.						
ISC	**XII**	**13 03 55 57**±6.9	**12.8N**±.83	**91.2W**±.37	**33**	**3.8b**	**7**	**20-147**
EIDC	XII	13 03 56 07.0±1.57	14.4N	90.3W	27±5.3	3.6b,3.8L		¶97xii2876
EIDC		Error ellipse is semi−major=84.1km semi−minor=31.5km azimuth=55						
ISC	**XII**	**14 06 07 07**±6.6	**12.7N**±.19	**88.6W**±.13	**194**±61	**4.4b**	**43**	**21-150**
EIDC	XII	14 06 06 48.2±1.17	12.7N	88.6W	0	4.4b,4.1s		¶97xii3096
NEIC	XII	14 06 06 49.5	12.43N	88.73W	33	4.7b		
EIDC		Error ellipse is semi−major=42.4km semi−minor=21.6km azimuth=58						
NEIC		Less reliable solution.						
EIDC	**XII**	**14 06 37 03.5**±3.97	**12.6N**	**88.4W**	**0**	**3.4b**		**22-148**
								¶97xii3101
EIDC		Error ellipse is semi−major=152.4km semi−minor=56.4km azimuth=43						
ISC	**XII**	**16 09 32 55**±1.8	**13.0N**±.44	**91.6W**±.78	**33**	**4.0b**	**6**	**34-64**
EIDC	XII	16 09 32 51.9±1.97	13.0N	91.4W	0	4.0b		¶97xii3426
EIDC		Error ellipse is semi−major=140.5km semi−minor=23.7km azimuth=62						
ISC	**XII**	**18 15 30 03**±6.1	**12.0N**±.69	**88.2W**±.37	**33**	**4.2b**	**13**	**22-138**
NEIC	XII	18 15 30 12.1	13.03N	88.61W	33	4.6b		¶97xii3787
EIDC	XII	18 15 30 12.8±1.14	12.9N	88.5W	33±5.4	3.8b		
NEIC		Poor solution.						
EIDC		Error ellipse is semi−major=40.5km semi−minor=22.4km azimuth=86						
EIDC	**XII**	**26 11 30 15.3**	**11.2N**	**88.3W**	**0**	**3.5b**		**23-55**
								¶97xii5111
EIDC		Origin time error = 14.53Error ellipse is semi−major=285.3km semi−minor=94.5km azimuth=9						
ISC	**XII**	**31 00 46 45**±1.4	**12.3N**±.23	**88.1W**±.24	**33**	**4.2b,3.7s**	**12**	**22-150**
EIDC	XII	31 00 46 51.2±8.24	12.4N	88.1W	73±72.7	3.9b,3.6s		¶97xii5812
NEIC	XII	31 00 46 51.8	12.36N	88.10W	100	4.0b		
EIDC		Error ellipse is semi−major=52.8km semi−minor=26.7km azimuth=46						
NEIC		Poor solution.						

(77) Off coast of Costa Rica.

ISC	**VII**	**12 08 24 43**±5.6	**10.9N**±.65	**87.0W**±.29	**33**	**3.9b**	**12**	**24-139**
EIDC	VII	12 08 24 52.0	12.3N	87.1W	0	3.9b		¶97vii1793
NEIC	VII	12 08 25 03.7	12.53N	87.32W	100	4.0b		
NEIC		Poor solution.						
ISC	**VIII**	**03 10 02 13.3**±.84	**9.5N**±.15	**85.2W**±.18	**33**	**3.9b**	**17**	**23-140**
EIDC	VIII	03 10 02 10.2	9.4N	85.3W	0	3.9b		¶97viii0347
NEIC	VIII	03 10 02 13.1	9.49N	85.35W	33	4.5b		
NEIC		Less reliable solution.						
ISC	**VIII**	**20 22 53 50.1**±.45	**10.39N**±.076	**86.46W**±.078	**33**	**4.4b,3.9s**	**78**	**23-151**
NEIC	VIII	20 22 53 49.9	10.35N	86.49W	33	4.7b,4.4s		¶97viii3030
EIDC	VIII	20 22 53 52.0	10.4N	86.5W	29	4.2b,3.7s		
ISC	**IX**	**15 07 57 05.6**±.62	**9.90N**±.086	**86.6W**±.11	**33**	**4.1b,3.4s**	**31**	**15-151**
NEIC	IX	15 07 57 05.4	9.90N	86.62W	33	4.2b		¶97ix2213
EIDC	IX	15 07 57 08.5	9.9N	86.6W	39	3.9b,3.5s		
NEIC		Less reliable solution.						
ISC	**IX**	**17 00 05 43**±7.0	**9.9N**±.78	**86.0W**±.41	**33**	**3.7b**	**9**	**24-151**
EIDC	IX	17 00 05 43.6	10.3N	86.1W	0	3.7b,3.7s		¶97ix2446
ISC	**IX**	**19 18 40 30**±5.2	**10.1N**±.60	**86.0W**±.27	**33**	**4.0b**	**16**	**23-151**
NEIC	IX	19 18 40 30.1	10.13N	86.05W	33	4.3b		¶97ix2829
EIDC	IX	19 18 40 30.3	10.6N	86.0W	0	3.9b,3.4s		
NEIC		Poor solution.						
ISC	**XI**	**22 01 13 48**±1.7	**10.8N**±.32	**86.5W**±.36	**33**	**3.6b**	**7**	**24-150**
EIDC	XI	22 01 13 44.2	10.8N	86.5W	0	3.7b		¶97xi3771
ISC	**XII**	**18 08 07 20**±1.2	**9.0N**±.46	**85.8W**±.92	**33**	**3.5b**	**5**	**23-70**
EIDC	XII	18 08 07 17.0±1.20	8.9N	86.0W	0	3.6b		¶97xii3737
EIDC		Error ellipse is semi−major=142.8km semi−minor=21.5km azimuth=64						

(78) Costa Rica.

ISC	**VII**	**26 19 01 19**±2.4	**8.2N**±.40	**83.1W**±.13	**33**	**3.7b**	**16**	**0-141**
NEIC	VII	26 19 01 18.5	8.30N	83.02W	33	4.3b		¶97vii3996
EIDC	VII	26 19 01 37.5	8.0N	82.8W	215	3.0b		
NEIC		Poor solution.						
ISC	**VII**	**28 18 28 34**±6.0	**10.9N**±.12	**86.0W**±.18	**263**±64	**3.8b**	**36**	**23-150**
NEIC	VII	28 18 28 10.7	10.75N	85.95W	33	4.4b,3.9s		¶97vii4312
EIDC	VII	28 18 28 12.2	10.9N	86.0W	23	4.0b,4.0s		
NEIC		Less reliable solution.						
ISC	**VII**	**28 18 53 30**±2.2	**10.3N**±.27	**85.9W**±.15	**33**	**4.3b,3.5s**	**28**	**24-151**
EIDC	VII	28 18 53 30.8	11.0N	85.8W	0	4.2b,3.5s		¶97vii4316
NEIC	VII	28 18 53 33.7	10.84N	85.95W	33	4.4b		
NEIC		Poor solution.						
ISC	**VII**	**30 11 54 53**±1.4	**9.45N**±.083	**84.22W**±.088	**89**±15	**4.2b**	**62**	**10-152**
BJI	VII	30 11 54 52.2	9.50N	84.20W	84			¶97vii4577
NEIC	VII	30 11 54 52.2	9.51N	84.19W	84	4.5b		
EIDC	VII	30 11 54 53.6	9.5N	84.3W	84	4.0b		
ISC	**VII**	**31 02 32 25**±5.9	**10.2N**±.68	**85.5W**±.41	**33**±3.7*	**3.8b**	**10**	**25-69**
EIDC	VII	31 02 32 31.5	10.7N	85.9W	36	3.6b,3.8s		¶97vii4666
ISC	**VIII**	**20 00 10 43**±1.0	**10.8N**±.19	**85.0W**±.33	**33**	**3.6b**	**10**	**24-151**
EIDC	VIII	20 00 10 39.6	10.7N	85.4W	0	3.6b		¶97viii2884
NEIC	VIII	20 00 10 42.8	10.78N	85.21W	33			
NEIC		Poor solution.						
ISC	**IX**	**02 12 02 38.9**±.95	**10.6N**±.17	**85.5W**±.15	**250**	**4.0b**	**21**	**23-151**
NEIC	IX	02 12 02 23.5	10.40N	85.67W	100	4.4b		¶97ix0272
EIDC	IX	02 12 02 29.6	10.6N	85.6W	137	3.8b		
NEIC		Less reliable solution.						
ISC	**IX**	**16 08 38 21**±1.9	**10.6N**±.11	**85.96W**±.076	**40**±19	**4.5b,3.9s**	**57**	**12-151**
NEIC	IX	16 08 38 20.1	10.55N	86.03W	33	4.6b		¶97ix2355
EIDC	IX	16 08 38 21.0	10.8N	85.9W	23	4.3b,3.9s		
NEIC		Less reliable solution.						

ISC IX 21 21 52 52.6±.81 **10.4N**±.16 **85.9W**±.22 **33** **3.8b,**3.7s **13 25-151**
EIDC IX 21 21 52 51.6 10.4N 86.0W 14 3.9b,3.7s **¶97ix3171**
NEIC IX 21 21 52 52.2 10.32N 85.97W 33 3.4b
NEIC Poor solution.
ISC X 10 23 29 47.1±.90 **10.07N**±.077 **83.98W**±.076 **87**±8.2 **4.5b** **84 2-152**
NEIC X 10 23 29 48.3 10.04N 83.96W 100 4.7b **¶97x1812**
EIDC X 10 23 29 56.2 10.1N 84.0W 156 4.0b
NEIC M_{D}4.8(UPA).
EIDC Multiple, same az
ISC X 30 11 32 08±7.7 **10.0N**±.90 **85.9W**±.52 **33** **3.7b** **5 25-69**
EIDC X 30 11 32 06.6 10.2N 86.0W 0 3.7b,3.1s **¶97x5031**
ISC XII 26 12 47 51±1.1 **9.7N**±.20 **83.9W**±.28 **33** **3.6b** **7 27-152**
NEIC XII 26 12 47 51.0 9.67N 83.85W 33 3.5b **¶97xii5118**
EIDC XII 26 12 47 52.3±.84 9.7N 83.8W 27±4.9 3.5b
NEIC Poor solution.
EIDC Error ellipse is semi−major=37.7km semi−minor=19.4km azimuth=68

(80) Panama-Costa Rica border region.

ISC VII 05 00 56 32.3±.95 **8.70N**±.097 **82.77W**±.049 **9**±12 **14 0-3**
NEIC VII 05 00 56 33.0 8.56N 82.81W 33 **¶97vii0650**
ISC VII 07 20 36 10±2.1 **8.3N**±.33 **82.8W**±.27 **22**±22 **7 0-3**
¶97vii1088
ISC VII 12 08 15 19±1.1 **8.3N**±.20 **82.74W**±.086 **10** **9 0-4**
NEIC VII 12 08 15 18.9 8.29N 82.73W 10 **¶97vii1792**
NEIC Single network solution.
ISC VII 15 17 44 00.5±.36 **8.85N**±.047 **82.81W**±.037 **38**±3.8 **4.5b,4.3s** **137 0-153**
NEIC VII 15 17 43 59.9 8.85N 82.83W 33 4.7b,4.3s **¶97vii2330**
BJI VII 15 17 44 03.0 8.90N 82.80W 33
EIDC VII 15 17 44 03.4 8.9N 82.8W 50 4.1b,4.2s
NEIC Slight damage at David, Panama.
ISC VII 20 19 34 38±7.2 **9.7N**±.55 **82.1W**±.36 **33** **5 1-4**
¶97vii3141
ISC VII 21 03 54 59±6.6 **9.8N**±.50 **82.4W**±.32 **10** **7 1-4**
NEIC VII 21 03 54 59.0 9.81N 82.41W 10 **¶97vii3186**
NEIC Poor solution.
ISC VIII 14 12 05 08.2±.99 **9.5N**±.16 **82.9W**±.20 **300** **3.5b** **16 24-152**
EIDC VIII 14 12 04 58.3 9.3N 82.8W 191 3.6b **¶97viii2053**
NEIC VIII 14 12 04 59.1 9.69N 82.62W 200 4.7b
NEIC Felt, Less reliable solution.
NEIC Felt in western Panama.
ISC VIII 15 07 35 37±1.5 **8.64N**±.067 **82.95W**±.071 **84**±15 **4.5b** **105 9-153**
EIDC VIII 15 07 35 26.8 8.7N 82.9W 0 4.5b **¶97viii2176**
BJI VIII 15 07 35 29.1 8.15N 83.18W 41 6.2s
NEIC VIII 15 07 35 30.8 8.65N 82.90W 33 4.8b
ISC X 04 21 18 48±2.5 **8.4N**±.38 **82.8W**±.28 **18**±16 **8 0-4**
NEIC X 04 21 18 44.5 8.65N 82.98W 5 **¶97x0735**
NEIC M_{D}3.9(UPA), Single network solution.
ISC X 12 01 24 48±5.3 **8.8N**±.29 **82.4W**±.34 **15** **4 0-2**
NEIC X 12 01 24 47.8 8.83N 82.42W 15 **¶97x1967**
ISC Poorly determined
NEIC M_{D}3.8(UPA), Poor solution.
ISC X 14 12 32 31±4.0 **8.5N**±.18 **82.9W**±.28 **10** **8 0-4**
NEIC X 14 12 32 30.4 8.51N 82.90W 10 **¶97x2404**
NEIC M_{D}4.4(UPA), Single network solution.
ISC X 17 09 33 32±6.0 **8.5N**±.35 **82.8W**±.35 **10**±19 **6 0-3**
NEIC X 17 09 33 31.8 8.53N 82.84W 10 **¶97x2954**
NEIC M_{D}3.9(UPA), Single network solution.
ISC X 17 14 56 22±3.0 **8.1N**±.26 **82.7W**±.13 **20** **5 0-3**
NEIC X 17 14 56 22.1 8.12N 82.74W 20 **¶97x3010**
NEIC M_{D}3.9(UPA), Single network solution.
ISC X 19 09 15 19±5.5 **8.6N**±.19 **83.0W**±.35 **10** **5 0-3**
NEIC X 19 09 15 19.2 8.58N 82.99W 10 **¶97x3324**
NEIC M_{D}3.8(UPA), Poor solution.
ISC XI 02 10 45 00±2.9 **8.5N**±.36 **82.7W**±.21 **33** **7 0-3**
¶97xi0239
ISC XI 13 01 58 54±9.0 **9.1N**±.57 **82.1W**±.22 **8**±36 **5 0-2**
ISC Poorly determined **¶97xi2064**
ISC XII 10 08 36 38±5.8 **8.4N**±.29 **82.9W**±.41 **5** **8 0-4**
NEIC XII 10 08 36 37.1 8.36N 83.00W 5 **¶97xii2319**
NEIC M_{D}4.3(UPA), Poor solution.
ISC XII 14 11 45 38±2.3 **9.1N**±.27 **82.3W**±.19 **33** 3.5b **7 2-58**
NEIC XII 14 11 45 37.9 9.05N 82.32W 33 **¶97xii3141**
NEIC M_{D}4.3(UPA), Less reliable solution.

(81) Panama.

ISC VII 04 03 38 54.2±.92 **9.0N**±.12 **80.49W**±.057 **10** **9 1-4**
NEIC VII 04 03 38 52.1 9.07N 80.60W 10 **¶97vii0491**
ISC VII 13 06 12 35.8±.83 **9.0N**±.12 **80.52W**±.050 **10** **12 1-4**
NEIC VII 13 06 12 35.7 9.00N 80.52W 10 **¶97vii1935**
ISC VII 16 22 25 17±10 **9.0N**±.33 **80.5W**±.51 **8**±28 **6 1-2**
¶97vii2503
ISC IX 26 18 48 02.7±.65 **9.4N**±.18 **79.29W**±.081 **71**±15 **4.2b** **21 0-146**
EIDC IX 26 18 48 02.3 9.3N 79.1W 59 3.9b **¶97ix4113**
NEIC IX 26 18 48 02.5 9.39N 79.28W 73 4.5b
NEIC Less reliable solution.
ISC X 01 23 14 17±1.2 **8.9N**±.14 **79.67W**±.079 **10** **4 0-1**
NEIC X 01 23 14 17.3 8.93N 79.68W 10 **¶97x0172**
ISC Poorly determined
NEIC M_{D}3.1(UPA), Poor solution.
EIDC X 02 17 05 50.8 9.4N 79.4W 0 4.2b **¶97x0317**
ISC X 03 12 59 06±1.4 **9.0N**±.15 **79.69W**±.079 **8**±15 **5 0-1**
NEIC X 03 12 59 06.0 9.02N 79.70W 10 **¶97x0468**
ISC Poorly determined
NEIC M_{D}3.1(UPA), Single network solution.
ISC X 08 21 11 02±5.5 **9.4N**±.48 **79.6W**±.19 **33** **4 0-1**
NEIC X 08 21 11 02.4 9.43N 79.62W 33 **¶97x1477**
ISC Poorly determined
NEIC M_{D}3.2(UPA), Poor solution.
ISC X 09 02 55 21±3.8 **9.2N**±.72 **78.8W**±.31 **33** **4 0-1**
NEIC X 09 02 55 21.4 9.21N 78.81W 33 **¶97x1513**
ISC Poorly determined
NEIC M_{D}3.0(UPA), Poor solution.
ISC X 18 19 20 56±1.4 **9.0N**±.17 **79.64W**±.077 **10** **4 0-1**
NEIC X 18 19 20 55.8 9.02N 79.64W 10 **¶97x3220**
ISC Poorly determined
NEIC M_{D}3.1(UPA), Poor solution.
ISC X 29 19 40 45±1.2 **9.1N**±.20 **78.81W**±.093 **33** **6 0-2**
¶97x4941
ISC XI 09 09 19 04±8.0 **7.1N**±.77 **81.0W**±.12 **33** **6 1-2**
¶97xi1425
ISC XI 26 12 28 21±1.1 **9.0N**±.13 **79.66W**±.075 **14**±11 **6 0-1**
NEIC XI 26 12 28 21.2 8.98N 79.65W 10 **¶97xi4682**
NEIC M_{D}3.1(UPA), Single network solution.
ISC XI 27 13 11 47±1.4 **9.0N**±.16 **79.66W**±.079 **10** **4 0-1**
NEIC XI 27 13 11 47.4 9.03N 79.66W 10 **¶97xi4865**
ISC Poorly determined
NEIC M_{D}2.9(UPA), Poor solution.
ISC XI 27 23 33 09±1.7 **8.7N**±.11 **79.7W**±.14 **10** **4 0-1**
NEIC XI 27 23 33 08.5 8.70N 79.72W 10 **¶97xi4963**
ISC Poorly determined
NEIC M_{D}3.0(UPA), Poor solution.
ISC XII 01 17 56 23.0±.67 **8.3N**±.13 **81.4W**±.21 **33** **4.0b,3.7s** **16 28-153**
EIDC XII 01 17 56 20.0±.73 8.4N 81.3W 0 4.1b,3.8s **¶97xii0121**
NEIC XII 01 17 56 22.8 8.30N 81.39W 33 4.5b
EIDC Error ellipse is semi−major=38.0km semi−minor=14.5km azimuth=62
NEIC Less reliable solution.
ISC XII 01 19 10 52±1.4 **8.9N**±.16 **78.7W**±.12 **33** **6 0-2**
¶97xii0131
ISC XII 04 15 47 24±1.4 **9.0N**±.16 **79.66W**±.082 **12**±13 **5 0-1**
NEIC XII 04 15 47 23.6 9.00N 79.66W 10 **¶97xii0639**
ISC Poorly determined
NEIC M_{D}3.0(UPA), Single network solution.
ISC XII 04 19 49 40±1.5 **9.0N**±.21 **79.67W**±.083 **13**±14 **5 0-1**
NEIC XII 04 19 49 40.1 9.00N 79.67W 10 **¶97xii0681**
ISC Poorly determined
NEIC M_{D}3.0(UPA), Single network solution.
ISC XII 07 00 14 09±10 **9.9N**±.68 **78.7W**±.34 **15** **5 1-3**
NEIC XII 07 00 14 09.4 9.86N 78.71W 15 **¶97xii1561**
NEIC M_{D}3.1(UPA), Poor solution.
ISC XII 10 12 27 36±1.6 **9.1N**±.18 **79.65W**±.078 **10** **4 0-1**
NEIC XII 10 12 27 36.1 9.05N 79.66W 10 **¶97xii2353**
ISC Poorly determined
NEIC M_{D}2.9(UPA), Poor solution.
ISC XII 12 14 55 05±7.4 **8.7N**±.34 **78.4W**±.77 **29**±48 **6 0-2**
NEIC XII 12 14 55 04.5 8.76N 78.34W 33 **¶97xii2765**
NEIC M_{D}3.6(UPA), Poor solution.
ISC XII 14 04 11 40±1.2 **8.9N**±.11 **78.81W**±.078 **10** **6 0-2**
NEIC XII 14 04 11 39.8 8.85N 78.81W 10 **¶97xii3084**
NEIC M_{D}3.3(UPA), Single network solution.
ISC XII 15 17 34 14±1.2 **9.0N**±.19 **79.69W**±.086 **15**±14 **5 0-1**
NEIC XII 15 17 34 14.0 8.96N 79.68W 10 **¶97xii3316**
ISC Poorly determined
NEIC M_{D}2.4(UPA), Single network solution.
ISC XII 24 03 32 06±1.0 **8.9N**±.13 **79.49W**±.071 **10** **5 0-1**
NEIC XII 24 03 32 06.2 8.89N 79.49W 10 **¶97xii4696**
NEIC M_{D}3.0(UPA), Single network solution.

(83) South of Panama.

ISC VII 03 04 47 19.4±.49 **2.94N**±.037 **79.36W**±.057 **42**±6.3 **4.3b,3.5s** **72 2-143**
EIDC VII 03 04 47 15.8 3.4N 78.9W 0 4.1b,3.6s **¶97vii0359**
IGQ VII 03 04 47 17.6 2.7N 79.6W 14 4.7b
NEIC VII 03 04 47 19.0 3.03N 79.33W 33 4.6b
ISC VII 11 06 14 54±5.7 **2.6N**±.16 **79.6W**±.17 **29**±40 **3.8b** **18 5-151**
NEIC VII 11 06 14 54.1 2.54N 79.54W 30 4.1b **¶97vii1629**
EIDC VII 11 06 14 56.3 2.7N 79.6W 28 3.6b,4.3$_{L}$
NEIC Less reliable solution.
ISC VII 26 06 09 13.7±.49 **5.96N**±.058 **82.62W**±.063 **10** **4.0b,3.7s** **32 2-142**
NEIC VII 26 06 09 13.5 5.97N 82.64W 10 4.2b **¶97vii3927**
EIDC VII 26 06 09 20.6 5.8N 82.7W 54 3.7b,3.8s
ISC VIII 06 22 25 04.7±.62 **5.5N**±.14 **82.5W**±.24 **33** **3.9b,**3.9s **13 18-78**
EIDC VIII 06 22 25 01.6 5.5N 82.3W 0 3.8b,3.9s **¶97viii0847**
NEIC VIII 06 22 25 04.7 5.49N 82.51W 33
NEIC Less reliable solution.
ISC VIII 07 01 51 15.2±.33 **7.27N**±.065 **82.18W**±.070 **33** **4.6b,4.0s** **113 8-154**
EIDC VIII 07 01 51 12.0 7.4N 82.0W 0 4.5b,4.0$_{L}$ **¶97viii0868**
BJI VIII 07 01 51 15.1 7.30N 82.20W 33
NEIC VIII 07 01 51 15.1 7.27N 82.22W 33 4.8b,4.0s
ISC VIII 10 00 59 33.3±.74 **3.9N**±.18 **78.9W**±.42 **100** **3.6b** **13 16-144**
NEIC VIII 10 00 59 25.8 3.68N 79.54W 33 **¶97viii1330**
EIDC VIII 10 00 59 46.7 3.8N 78.8W 215 3.1b
NEIC Poor solution.
EIDC IX 01 08 19 20.2 4.6N 82.2W 0 3.5b **¶97ix0072**
ISC IX 07 02 46 00.3±.45 **2.72N**±.083 **79.73W**±.069 **10** **4.8b,3.9s** **116 3-159**
BJI IX 07 02 45 59.6 2.60N 79.80W 10 **¶97ix1003**
NEIC IX 07 02 45 59.6 2.63N 79.82W 10 4.9b,3.8s
EIDC IX 07 02 46 03.2 2.7N 79.8W 23 4.2b,3.9s
ISC IX 08 20 48 29±1.3 **2.67N**±.032 **79.76W**±.037 **29**±10 **4.7b,4.3s** **154 3-159**
IGQ IX 08 20 48 16.4 3.5N 80.1W 52 5.1b **¶97ix1279**
EIDC IX 08 20 48 25.8 2.7N 79.8W 0 4.5b,4.3s
BJI IX 08 20 48 26.0 2.60N 79.80W 10
NEIC IX 08 20 48 26.0 2.64N 79.81W 10 4.8b,4.4s
ISC IX 11 09 11 14.4±.94 **6.5N**±.25 **81.0W**±.37 **10** **3.9b,3.7s** **16 19-90**
NEIC IX 11 09 11 14.0 6.44N 81.03W 10 4.4b **¶97ix1654**
EIDC IX 11 09 11 14.7 6.6N 80.7W 0 3.6s,3.9b
NEIC Poor solution.
ISC IX 28 17 55 55.1±.87 **3.8N**±.17 **79.5W**±.31 **33** **3.9b,**3.0s **11 23-143**
EIDC IX 28 17 55 52.3 3.8N 79.4W 0 3.9b,3.0s **¶97ix4722**
NEIC IX 28 17 55 55.3 3.78N 79.39W 33
NEIC Poor solution.
ISC X 05 00 55 00±1.4 **2.67N**±.044 **79.75W**±.040 **21**±9.5 **5.0b,4.4s** **233 3-159**
EIDC X 05 00 54 57.4 2.7N 79.8W 0 4.7b,4.0s **¶97x0771**
NEIC X 05 00 54 57.8 2.62N 79.79W 10 5.1b,4.3s
BJI X 05 00 54 58.8 2.60N 79.80W 10
HRVD X 05 00 55 04.8±.6 2.15N±.13 79.56W±.09 15
NEIC Mw5.3(HRV), M_{D}4.8(UPA).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c21; Half duration: 1$\frac{1}{2}$0. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.47±.46; $M_{\theta\theta}$−0.94±.60; $M_{\phi\phi}$6.40±.79; $M_{r\theta}$6.21±1.81; $M_{r\phi}$5.95±1.98; $M_{\theta\phi}$1.19±.44. Principal Axes: T 10.1,Plg27°,Azm292°; N 0.8, Plg19°,Azm32°; P −10.9,Plg56°,Azm152°. Best double couple: M_{0}1.1×10^{17}Nm, NP1: ϕ_{S}345°,δ25°,λ−140°. NP2:ϕ_{S}218°,δ74°,λ−71°.
ISC X 13 00 01 30.6±.49 **5.54N**±.066 **79.66W**±.074 **33** **4.3b** **48 3-156**
EIDC X 13 00 01 28.7 5.7N 79.8W 0 4.3b **¶97x2131**
NEIC X 13 00 01 30.5 5.57N 79.58W 33 4.3b
NEIC M_{D}4.4(UPA).
ISC X 18 11 06 33±2.7 **2.79N**±.082 **79.64W**±.071 **21**±19 **4.4b,**3.5s **58 3-159**
BJI X 18 11 06 30.6 2.70N 79.70W 10 **¶97x3147**
NEIC X 18 11 06 30.6 2.73N 79.69W 10 4.7b
EIDC X 18 11 06 37.8 2.7N 79.7W 52 3.8b

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**X**	**25 01 29 13**±2.0	**6.2N**±.12	**82.5W**±.13	**43**±18	**4.1b**,3.9s	**21**	**2-141**	
NEIC	X	25 01 29 12.3	6.26N	82.43W	33	4.7b			¶97x4250
EIDC	X	25 01 29 14.4	6.3N	82.5W	35	3.8b,3.9s			
NEIC	Poor solution.								
ISC	**XI**	**03 14 04 50**±7.9	**7.3N**±.62	**79.6W**±.17	**33**		**5**	**1-2**	¶97xi0477
ISC	**XI**	**16 16 42 34**±5.9	**7.3N**±.44	**82.3W**±.26	**10**		**6**	**1-3**	
NEIC	XI	16 16 42 33.6	7.32N	82.30W	10				¶97xi2671
NEIC	M_D4.0(UPA), Poor solution.								
ISC	**XI**	**26 14 46 36**±1.1	**5.78N**±.076	**82.51W**±.099	**33**	**3.7b**,3.8s	**20**	**3-142**	
NEIC	XI	26 14 46 36.0	5.75N	82.49W	33				¶97xi4705
EIDC	XI	26 14 46 36.2	7.4N	79.0W	0	3.7b,3.8s			
NEIC	$M_{D4.3}$(UPA).								
ISC	**XII**	**01 00 48 23**±9.6	**7.4N**±.71	**82.1W**±.41	**10**		**5**	**1-3**	
NEIC	XII	01 00 48 23.2	7.39N	82.05W	10				¶97xii0005
NEIC	M_D3.8(UPA), Poor solution.								
ISC	**XII**	**07 15 18 38**±12	**6.8N**±.84	**79.0W**±.35	**10**		**6**	**2-2**	
NEIC	XII	07 15 18 39.0	6.85N	78.98W	10				¶97xii1724
NEIC	M_D3.7(UPA), Poor solution.								
ISC	**XII**	**12 18 48 22**±14	**6.9N**±.95	**78.2W**±.71	**150**		**6**	**2-3**	¶97xii2803
IGQ	**XII**	**25 19 54 02.8**	**2.9N**	**79.1W**	**12**	**4.3b**			¶97xii4985

SEISMIC REGION 7. CARIBBEAN LOOP.

(87) Haiti region.

ISC	**XII**	**18 16 34 23**±1.1	**18.5N**±.33	**72.8W**±.38	**20**	**3.5b**	**8**	**30-155**	
EIDC	XII	18 16 34 24.8±1.53	18.4N	73.0W	20±8.5	3.5b			¶97xii3792
EIDC	Error ellipse is semi−major=68.2km semi−minor=24.2km azimuth=53								

(88) Dominican Republic region.

ISC	**VII**	**30 16 12 44**±2.3	**18.0N**±.11	**70.35W**±.069	**7**±11	**4.5b,3.9s**	**57**	**0-87**	
NEIC	VII	30 16 12 44.4	18.00N	70.32W	10	4.9b			¶97vii4602
EIDC	VII	30 16 12 44.5	18.0N	70.3W	0	4.1b,3.9s			
MOS	VII	30 16 12 48.3	18.8N	70.3W	10	5.0b			
ISC	**VIII**	**16 09 57 26**±3.1	**19.48N**±.095	**70.2W**±.11	**32**±24	**3.7b**,3.3s	**30**	**12-157**	
EIDC	VIII	16 09 57 22.5	19.4N	70.2W	0	3.7b,3.3s			¶97viii2345
NEIC	VIII	16 09 57 25.9	19.47N	70.24W	33				
NEIC	Less reliable solution.								
ISC	**IX**	**09 04 02 14.7**±.95	**19.9N**±.15	**71.0W**±.18	**33**	**3.7b,**3.3s	**14**	**19-148**	
EIDC	IX	09 04 02 11.1	19.8N	71.1W	0	3.6b,3.3s			¶97ix1322
NEIC	IX	09 04 02 14.3	19.87N	70.98W	33	3.8b			
NEIC	Less reliable solution.								
ISC	**XII**	**22 20 51 50**±1.9	**19.8N**±.42	**69.1W**±.27	**56**	**3.6b**	**8**	**20-158**	
NEIC	XII	22 20 51 49.9	19.83N	69.09W	56	3.7b			¶97xii4486
EIDC	XII	22 20 51 51.2±2.07	19.7N	69.1W	55±8.6	3.3b			
NEIC	Poor solution.								
EIDC	Error ellipse is semi−major=60.9km semi−minor=29.4km azimuth=22								

(89) Mona Passage.

ISC	**VII**	**03 04 53 14**±1.7	**18.3N**±.15	**67.2W**±.11	**29**±17		**6**	**0-1**	
NEIC	VII	03 04 53 13.6	18.26N	67.21W	33				¶97vii0360
NEIC	M_D2.8(MPR), Single network solution.								
ISC	**VII**	**05 04 10 25**±1.5	**18.2N**±.13	**67.10W**±.098	**28**±13		**7**	**0-1**	
NEIC	VII	05 04 10 25.6	18.28N	67.08W	10				¶97vii0673
NEIC	M_D2.5(MPR), Single network solution.								
ISC	**VII**	**07 21 08 16**±14	**18.9N**±.81	**68.1W**±.78	**33**		**8**	**1-2**	¶97vii1092
ISC	**VII**	**09 13 03 53**±4.1	**18.5N**±.37	**67.4W**±.15	**15**		**4**	**0-1**	
NEIC	VII	09 13 03 53.1	18.46N	67.43W	15				¶97vii1340
ISC	Poorly determined								
NEIC	M_D2.6(MPR), Poor solution.								
ISC	**VII**	**10 18 37 21**±1.5	**18.1N**±.20	**67.7W**±.10	**20**		**4**	**0-1**	
NEIC	VII	10 18 37 20.6	18.11N	67.70W	20				¶97vii1543
ISC	Poorly determined								
NEIC	M_D2.8(MPR), Poor solution.								
ISC	**VII**	**24 23 03 21**±6.9	**18.9N**±.49	**67.3W**±.25	**33**		**10**	**1-2**	
NEIC	VII	24 23 03 21.2	18.93N	67.30W	33				¶97vii3732
NEIC	M_D3.7(MPR), Poor solution.								
ISC	**VIII**	**01 02 07 50**±4.6	**18.2N**±.20	**67.0W**±.13	**32**±41		**5**	**0-0**	
NEIC	VIII	01 02 07 49.7	18.18N	67.03W	33				¶97viii0009
ISC	Poorly determined								
NEIC	M_D2.4(MPR), Single network solution.								
ISC	**VIII**	**06 08 33 12**±4.9	**18.1N**±.28	**67.4W**±.23	**10**		**4**	**0-1**	
NEIC	VIII	06 08 33 12.0	18.04N	67.39W	10				¶97viii0773
ISC	Poorly determined								
NEIC	M_D2.4(MPR), Poor solution.								
ISC	**VIII**	**06 17 20 28**±7.8	**18.2N**±.42	**67.3W**±.38	**68**±59		**6**	**0-1**	
NEIC	VIII	06 17 20 29.9	18.23N	67.27W	50				¶97viii0825
NEIC	M_D2.7(MPR), Single network solution.								
NEIC	**VIII**	**17 09 50 05.2**	**18.59N**	**67.49W**	**33**			**0-1**	
NEIC	M_D2.9(MPR), Poor solution.								¶97viii2519
ISC	**VIII**	**22 19 16 55**±1.2	**18.2N**±.20	**67.1W**±.15	**33**		**4**	**0-0**	
NEIC	VIII	22 19 16 55.4	18.21N	67.14W	33				¶97viii3267
ISC	Poorly determined								
NEIC	M_D2.2(MPR), Poor solution.								
ISC	**VIII**	**27 17 55 21**±3.0	**18.4N**±.50	**68.0W**±.27	**100**		**7**	**0-1**	
NEIC	VIII	27 17 55 20.4	18.38N	67.97W	100				¶97viii4018
NEIC	M_D3.4(MPR), Poor solution.								
ISC	**VIII**	**30 07 47 04**±4.8	**18.6N**±.39	**67.7W**±.24	**33**		**7**	**1-2**	
NEIC	VIII	30 07 47 03.3	18.61N	67.72W	33				¶97viii4455
NEIC	M_D3.2(MPR), Poor solution.								
ISC	**IX**	**16 01 56 11**±5.3	**18.3N**±.63	**68.4W**±.44	**100**		**9**	**0-2**	¶97ix2311
ISC	**IX**	**16 08 45 57**±5.2	**17.6N**±.45	**67.2W**±.14	**33**		**5**	**0-1**	
NEIC	IX	16 08 45 57.2	17.62N	67.24W	33				¶97ix2356
NEIC	M_D2.9(MPR), Poor solution.								
ISC	**IX**	**21 10 31 23**±3.9	**17.8N**±.39	**67.7W**±.18	**33**		**9**	**0-2**	
NEIC	IX	21 10 31 22.7	17.81N	67.70W	33				¶97ix3085
NEIC	M_D3.4(MPR), Single network solution.								
ISC	**IX**	**29 19 55 39**±1.2	**18.0N**±.11	**67.01W**±.068	**10**		**7**	**0-1**	
NEIC	IX	29 19 55 39.3	18.03N	67.01W	10				¶97ix5011
NEIC	M_D2.7(MPR), Single network solution.								
ISC	**X**	**03 23 52 31**±1.7	**18.0N**±.13	**67.1W**±.14	**10**		**4**	**0-0**	
NEIC	X	03 23 52 30.9	18.03N	67.08W	10				¶97x0550
ISC	Poorly determined								
NEIC	M_D2.4(MPR), Poor solution.								
ISC	**X**	**06 05 10 00**±3.1	**18.3N**±.45	**67.6W**±.14	**33**		**7**	**0-2**	
NEIC	X	06 05 10 00.1	18.32N	67.64W	33				¶97x0994
NEIC	M_D3.1(MPR), Poor solution.								
ISC	**X**	**07 13 09 40**±10	**19.1N**±.75	**67.6W**±.31	**33**		**6**	**1-2**	
NEIC	X	07 13 09 39.8	19.14N	67.63W	33				¶97x1253
NEIC	M_D3.3(MPR), Poor solution.								
ISC	**X**	**13 05 15 31**±6.2	**18.3N**±.21	**67.2W**±.42	**26**±16		**7**	**0-1**	¶97x2164
ISC	**X**	**15 19 48 33**±3.6	**18.6N**±.28	**67.4W**±.11	**19**±24		**9**	**1-2**	
NEIC	X	15 19 48 31.8	18.67N	67.44W	10				¶97x2701
NEIC	M_D3.3(MPR), Single network solution.								
ISC	**X**	**19 05 04 37**±1.2	**18.1N**±.11	**67.00W**±.076	**10**		**5**	**0-0**	
NEIC	X	19 05 04 36.8	18.05N	67.00W	10				¶97x3292
NEIC	M_D2.4(MPR), Single network solution.								
ISC	**X**	**19 13 01 31**±1.3	**18.1N**±.12	**67.01W**±.097	**10**		**4**	**0-0**	
NEIC	X	19 13 01 31.1	18.08N	67.01W	10				¶97x3352
ISC	Poorly determined								
NEIC	M_D2.2(MPR), Poor solution.								
ISC	**X**	**27 00 10 57**±11	**19.1N**±.71	**67.8W**±.44	**33**		**8**	**1-2**	
NEIC	X	27 00 10 56.8	19.14N	67.85W	33				¶97x4538
NEIC	M_D3.8(MPR), Poor solution.								
ISC	**X**	**31 09 22 17**±7.5	**18.2N**±.15	**67.1W**±.42	**21**±48		**6**	**0-0**	
NEIC	X	31 09 22 14.6	18.20N	67.23W	33				¶97x5161
NEIC	M_D3.1(MPR), Poor solution.								
ISC	**XI**	**14 09 46 47**±1.4	**18.1N**±.45	**67.6W**±.17	**100**		**6**	**0-1**	¶97xi2268
ISC	**XI**	**17 09 45 45**±9.0	**18.1N**±.49	**67.8W**±.88	**100**		**6**	**0-1**	¶97xi2773
ISC	**XI**	**17 22 12 27**±1.7	**18.2N**±.29	**67.39W**±.088	**26**±18		**6**	**0-1**	
NEIC	XI	17 22 12 26.3	18.21N	67.40W	33				¶97xi2867
NEIC	M_D3.2(MPR), Single network solution.								
ISC	**XI**	**18 06 41 55**±4.2	**18.4N**±.47	**67.5W**±.14	**33**		**5**	**0-1**	
NEIC	XI	18 06 41 55.3	18.44N	67.54W	33				¶97xi2920
NEIC	M_D3.0(MPR), Poor solution.								
ISC	**XI**	**18 12 29 19**±10	**19.3N**±.77	**67.5W**±.25	**33**		**7**	**1-2**	
NEIC	XI	18 12 29 18.8	19.33N	67.46W	33				¶97xi2959
NEIC	M_D3.3(MPR), Poor solution.								
ISC	**XI**	**20 17 40 44**±1.4	**18.3N**±.45	**68.5W**±.15	**150**±16	**3.7b**	**17**	**1-158**	
NEIC	XI	20 17 40 43.7	18.34N	68.46W	150				¶97xi3509
EIDC	XI	20 17 40 49.8	18.3N	68.5W	193	3.5b			
NEIC	M_D4.4(MPR), Less reliable solution.								
ISC	**XI**	**21 07 33 35**±5.4	**18.5N**±.42	**67.0W**±.14	**99**±39		**9**	**0-1**	
NEIC	XI	21 07 33 35.2	18.56N	67.01W	100				¶97xi3619
NEIC	M_D3.7(MPR), Single network solution.								
ISC	**XI**	**25 06 53 35**±8.9	**18.3N**±.24	**67.1W**±.38	**27**±59		**6**	**0-1**	
NEIC	XI	25 06 53 33.7	18.32N	67.14W	33				¶97xi4462
NEIC	M_D2.8(MPR), Single network solution.								
ISC	**XII**	**05 17 12 18**±12	**19.2N**±.85	**67.8W**±.45	**33**		**8**	**1-2**	¶97xii0977
ISC	**XII**	**05 23 21 38**±6.1	**17.2N**±.47	**67.3W**±.16	**33**		**7**	**1-2**	
NEIC	XII	05 23 21 38.1	17.16N	67.26W	33				¶97xii1145
NEIC	M_D3.1(MPR), Poor solution.								
ISC	**XII**	**06 17 50 20**±4.9	**18.7N**±.40	**67.3W**±.17	**83**±45		**10**	**1-2**	
NEIC	XII	06 17 50 20.1	18.75N	67.34W	80				¶97xii1483
NEIC	M_D3.5(MPR), Single network solution.								
ISC	**XII**	**13 09 13 00**±4.2	**18.9N**±.34	**67.2W**±.13	**33**		**10**	**1-1**	
NEIC	XII	13 09 12 59.6	18.92N	67.17W	33				¶97xii2921
NEIC	M_D3.9(MPR), Single network solution.								
ISC	**XII**	**13 20 23 54**±5.6	**17.9N**±.64	**68.1W**±.34	**70**		**6**	**0-1**	
NEIC	XII	13 20 23 54.0	17.90N	68.06W	70				¶97xii3011
NEIC	M_D3.2(MPR), Poor solution.								
ISC	**XII**	**15 10 40 03**±1.4	**18.1N**±.15	**67.01W**±.088	**10**		**4**	**0-0**	
NEIC	XII	15 10 40 03.1	18.13N	67.01W	10				¶97xii3270
ISC	Poorly determined								
NEIC	M_D2.5(MPR), Poor solution.								
ISC	**XII**	**16 05 45 56**±7.2	**18.9N**±.55	**67.6W**±.24	**33**		**8**	**1-2**	
NEIC	XII	16 05 45 55.5	18.96N	67.59W	33				¶97xii3392
NEIC	M_D3.1(MPR), Poor solution.								
ISC	**XII**	**17 09 19 36**±4.3	**18.3N**±.52	**67.4W**±.14	**66**±41		**7**	**0-1**	
NEIC	XII	17 09 19 35.8	18.31N	67.45W	70				¶97xii3584
NEIC	M_D3.0(MPR), Poor solution.								
ISC	**XII**	**26 00 48 24.6**±.42	**18.23N**±.038	**68.42W**±.039	**101**±6.4	**4.5b**	**113**	**0-150**	
NEIC	XII	26 00 48 24.1	18.18N	68.44W	94	4.7b			¶97xii5017
EIDC	XII	26 00 48 25.2±1.25	18.2N	68.5W	96±5.2	4.0b,3.3s			
NEIC	M_D4.7(MPR). Felt.								
EIDC	Error ellipse is semi−major=31.9km semi−minor=15.1km azimuth=26								
ISC	**XII**	**31 20 13 23**±2.8	**18.1N**±.65	**67.6W**±.43	**150**		**7**	**0-2**	¶97xii5962

(90) Puerto Rico region.

ISC	**VII**	**02 15 50 49**±5.6	**18.2N**±.24	**67.0W**±.18	**28**±47		**5**	**0-1**	
NEIC	VII	02 15 50 48.0	18.14N	66.95W	33				¶97vii0261
ISC	Poorly determined								
NEIC	M_D2.4(MPR), Single network solution.								
ISC	**VII**	**05 04 59 33**±5.4	**18.8N**±.43	**66.9W**±.14	**40**±49		**7**	**0-1**	
NEIC	VII	05 04 59 32.4	18.83N	66.86W	33				¶97vii0681
NEIC	M_D3.6(MPR), Poor solution.								
ISC	**VII**	**05 05 01 19**±9.3	**19.2N**±.70	**66.8W**±.21	**33**		**6**	**1-2**	¶97vii0682
ISC	**VII**	**12 07 12 30**±6.8	**18.7N**±.59	**66.3W**±.23	**33**		**5**	**1-1**	¶97vii1786
ISC	**VII**	**12 13 13 24**±7.3	**18.6N**±.39	**66.7W**±.16	**70**±60		**7**	**0-1**	
NEIC	VII	12 13 13 25.3	18.62N	66.74W	50				¶97vii1821
NEIC	M_D3.0(MPR), Single network solution.								
ISC	**VII**	**17 07 59 38**±6.9	**18.5N**±.36	**66.2W**±.25	**98**±55		**10**	**0-1**	
NEIC	VII	17 07 59 37.5	18.51N	66.15W	100				¶97vii2569
NEIC	M_D3.0(MPR), Poor solution.								
ISC	**VII**	**21 02 16 24**±5.5	**18.6N**±.54	**66.9W**±.16	**42**±42		**5**	**0-1**	
NEIC	VII	21 02 16 24.4	18.64N	66.95W	33				¶97vii3177
ISC	Poorly determined								
NEIC	M_D2.6(MPR), Poor solution.								
ISC	**VII**	**31 14 35 22**±2.8	**18.7N**±.24	**66.69W**±.076	**30**±11		**11**	**0-1**	
NEIC	VII	31 14 35 22.1	18.65N	66.69W	33				¶97vii4744
NEIC	M_D4.0(MPR). Felt I=IV MM, Single network solution.								
NEIC	Felt in much of the western, northern and southern parts of Puerto Rico with maximum intensity IV.								

ISC	**VIII 05 18 17 13**±12	**19.1N**±.70	**66.8W**±.43	**10**		**5**	**1-1**	
NEIC	VIII 05 18 17 12.8	19.12N	66.78W	10				¶97viii0696
NEIC	MD3.1(MPR), Poor solution.							
ISC	**VIII 07 19 22 27**±10	**18.0N**±.33	**65.8W**±.68	**15**±15		**9**	**0-2**	
NEIC	VIII 07 19 22 24.6	17.79N	65.83W	5				¶97viii0991
NEIC	MD3.3(MPR), Poor solution.							
ISC	**VIII 17 02 26 50**±2.0	**18.4N**±.39	**66.2W**±.17	**100**		**10**	**0-2**	
NEIC	VIII 17 02 26 49.8	18.38N	66.21W	100				¶97viii2460
NEIC	MD3.5(MPR), Poor solution.							
ISC	**VIII 20 23 18 23**±4.3	**18.7N**±.37	**66.5W**±.19	**50**		**7**	**0-1**	
NEIC	VIII 20 23 18 23.1	18.67N	66.46W	50				¶97viii3032
NEIC	MD2.8(MPR), Poor solution.							
ISC	**VIII 27 13 47 08**±5.2	**19.1N**±.40	**66.6W**±.12	**33**		**11**	**1-2**	
NEIC	VIII 27 13 47 07.8	19.12N	66.65W	33				¶97viii3991
NEIC	MD3.5(MPR), Single network solution.							
ISC	**VIII 27 13 52 19**±6.3	**19.0N**±.50	**66.7W**±.19	**63**±51		**8**	**1-2**	
NEIC	VIII 27 13 52 18.6	19.07N	66.65W	60				¶97viii3995
NEIC	MD3.5(MPR), Poor solution.							
ISC	**IX 13 06 02 18**±1.0	**18.1N**±.19	**66.90W**±.093	**33**		**6**	**0-1**	
								¶97ix1932
ISC	**IX 22 08 43 43**±2.3	**18.2N**±.18	**66.7W**±.10	**21**±27		**6**	**0-1**	
NEIC	IX 22 08 43 43.1	18.21N	66.69W	10				¶97ix3247
NEIC	MD2.3(MPR), Single network solution.							
ISC	**IX 24 00 09 07**±1.7	**18.2N**±.14	**66.72W**±.081	**16**±23		**7**	**0-1**	
NEIC	IX 24 00 09 06.7	18.26N	66.71W	10				¶97ix3500
NEIC	MD2.2(MPR), Single network solution.							
ISC	**IX 24 02 18 56**±1.6	**18.19N**±.093	**66.72W**±.069	**21**±21		**8**	**0-1**	
NEIC	IX 24 02 18 56.0	18.19N	66.71W	20				¶97ix3513
NEIC	MD2.9(MPR), Single network solution.							
ISC	**X 01 04 40 57**±1.7	**18.2N**±.13	**66.9W**±.12	**32**±14		**7**	**0-1**	
NEIC	X 01 04 40 58.5	18.17N	66.88W	20				¶97x0026
NEIC	MD2.3(MPR), Single network solution.							
ISC	**X 03 14 28 00**±3.3	**18.0N**±.19	**66.9W**±.11	**16**±54		**7**	**0-1**	
NEIC	X 03 14 28 00.5	17.96N	66.90W	10				¶97x0475
NEIC	MD2.6(MPR), Single network solution.							
ISC	**X 03 16 23 34**±1.2	**18.0N**±.12	**66.92W**±.055	**14**±8.3		**9**	**0-1**	
NEIC	X 03 16 23 33.6	17.96N	66.91W	10				¶97x0490
NEIC	MD2.6(MPR), Single network solution.							
ISC	**X 05 18 07 12**±8.2	**19.2N**±.62	**66.5W**±.22	**33**		**6**	**1-2**	
NEIC	X 05 18 07 12.2	19.23N	66.54W	33				¶97x0902
NEIC	MD3.3(MPR), Poor solution.							
ISC	**X 05 18 31 54**±5.7	**19.1N**±.43	**66.5W**±.15	**33**		**10**	**1-2**	
NEIC	X 05 18 31 53.8	19.11N	66.51W	33				¶97x0908
NEIC	MD3.7(MPR), Less reliable solution.							
ISC	**X 05 18 36 12**±5.2	**19.0N**±.41	**66.7W**±.15	**33**		**7**	**1-1**	
NEIC	X 05 18 36 11.7	18.98N	66.71W	33				¶97x0910
NEIC	MD3.0(MPR), Poor solution.							
ISC	**X 05 19 29 20**±4.7	**19.0N**±.37	**66.6W**±.13	**33**		**10**	**1-2**	
NEIC	X 05 19 29 19.6	19.01N	66.56W	33				¶97x0919
NEIC	MD3.5(MPR), Single network solution.							
ISC	**X 05 19 36 08**±6.1	**19.1N**±.46	**66.5W**±.19	**33**		**7**	**1-2**	
NEIC	X 05 19 36 07.7	19.06N	66.51W	33				¶97x0920
NEIC	MD3.1(MPR), Poor solution.							
ISC	**X 05 20 34 41**±6.0	**19.0N**±.44	**66.6W**±.20	**33**		**8**	**1-2**	
NEIC	X 05 20 34 40.5	19.00N	66.56W	33				¶97x0928
NEIC	MD3.0(MPR), Poor solution.							
ISC	**X 12 15 39 40**±2.9	**18.6N**±.44	**66.2W**±.18	**100**		**8**	**0-1**	
NEIC	X 12 15 39 40.4	18.58N	66.22W	100				¶97x2066
NEIC	MD3.7(MPR), Poor solution.							
ISC	**X 24 00 29 58**±10	**18.0N**±.34	**65.7W**±.69	**18**±13		**7**	**0-1**	
NEIC	X 24 00 29 50.5	17.99N	65.31W	5				¶97x4089
NEIC	MD3.2(MPR), Poor solution.							
ISC	**X 27 17 43 22**±1.4	**18.2N**±.66	**66.3W**±.17	**100**		**5**	**0-1**	
NEIC	X 27 17 43 21.5	18.42N	66.25W	100				¶97x4641
NEIC	MD3.0(MPR), Poor solution.							
ISC	**XI 02 11 24 08**±1.2	**19.35N**±.081	**66.28W**±.091	**46**±12	**4.2b**	**44**	**1-152**	
EIDC	XI 02 11 24 03.6	19.3N	66.3W	0	4.1b			¶97xi0250
NEIC	XI 02 11 24 05.9	19.24N	66.34W	33	4.3b			
NEIC	Less reliable solution.							
ISC	**XI 14 03 35 11.1**±.82	**19.19N**±.066	**66.5W**±.11	**33**	**3.5b**	**14**	**1-73**	
EIDC	XI 14 03 35 10.1	19.6N	66.6W	0	3.6b,3.3s			¶97xi2232
NEIC	XI 14 03 35 10.9	19.20N	66.52W	33				
NEIC	MD4.0(MPR).							
ISC	**XII 01 08 46 58.7**±.95	**18.2N**±.14	**66.36W**±.059	**10**		**6**	**0-1**	
NEIC	XII 01 08 46 58.6	18.19N	66.36W	10				¶97xii0054
NEIC	MD2.8(MPR), Single network solution.							
ISC	**XII 03 00 08 26**±3.2	**17.7N**±.81	**66.6W**±.21	**165**		**7**	**0-1**	
NEIC	XII 03 00 08 25.3	17.60N	66.59W	165				¶97xii0332
NEIC	MD3.1(MPR), Poor solution.							
ISC	**XII 03 20 41 05**±7.5	**17.4N**±.44	**66.8W**±.28	**20**		**6**	**1-1**	
NEIC	XII 03 20 41 11.8	17.84N	66.81W	20				¶97xii0499
NEIC	MD2.5(MPR), Poor solution.							
ISC	**XII 07 12 50 46**±4.9	**18.4N**±.46	**66.2W**±.20	**73**±49		**8**	**0-2**	
NEIC	XII 07 12 50 46.0	18.54N	66.21W	50				¶97xii1700
NEIC	MD2.8(MPR), Poor solution.							
ISC	**XII 08 04 47 23**±2.2	**17.9N**±.19	**66.89W**±.086	**15**±11		**7**	**0-1**	
NEIC	XII 08 04 47 23.4	17.92N	66.88W	10				¶97xii1866
NEIC	MD2.7(MPR), Single network solution.							
ISC	**XII 10 08 55 51**±2.4	**17.9N**±.25	**66.73W**±.093	**19**±34		**6**	**0-1**	
NEIC	XII 10 08 55 50.0	17.83N	66.73W	10				¶97xii2323
NEIC	MD2.5(MPR), Single network solution.							
ISC	**XII 10 19 06 03**±1.4	**18.0N**±.12	**66.82W**±.068	**14**±11		**7**	**0-1**	
NEIC	XII 10 19 06 03.6	18.02N	66.82W	10				¶97xii2410
NEIC	MD2.7(MPR), Single network solution.							
ISC	**XII 12 05 29 31**±13	**18.9N**±.90	**66.1W**±.42	**33**		**7**	**1-1**	
								¶97xii2699
ISC	**XII 14 14 34 26**±3.0	**17.9N**±.25	**66.0W**±.17	**26**±12		**8**	**0-1**	
NEIC	XII 14 14 34 26.7	17.86N	66.09W	10				¶97xii3161
NEIC	MD2.9(MPR), Single network solution.							
ISC	**XII 17 12 52 57**±2.2	**17.8N**±.15	**66.77W**±.079	**10**		**6**	**0-1**	
NEIC	XII 17 12 52 57.1	17.76N	66.77W	10				¶97xii3607
NEIC	MD2.6(MPR), Single network solution.							
ISC	**XII 17 15 10 05**±1.3	**18.4N**±.33	**66.5W**±.15	**100**		**8**	**0-1**	
NEIC	XII 17 15 10 04.7	18.50N	66.54W	100				¶97xii3620
NEIC	MD2.8(MPR), Poor solution.							
ISC	**XII 18 13 18 05**±1.1	**18.2N**±.15	**66.27W**±.071	**10**		**5**	**0-1**	
NEIC	XII 18 13 18 05.3	18.18N	66.27W	10				¶97xii3767
NEIC	MD2.6(MPR), Single network solution.							
ISC	**XII 21 02 50 58**±2.2	**18.6N**±.30	**66.5W**±.12	**80**		**9**	**0-1**	
NEIC	XII 21 02 50 57.5	18.58N	66.54W	80				¶97xii4200
NEIC	MD3.1(MPR), Single network solution.							
ISC	**XII 21 12 55 35**±2.5	**17.9N**±.28	**66.9W**±.12	**30**±18		**6**	**0-1**	
NEIC	XII 21 12 55 35.4	17.84N	66.85W	20				¶97xii4254
NEIC	MD2.3(MPR), Single network solution.							
ISC	**XII 27 13 15 09**±3.1	**17.8N**±.20	**66.1W**±.11	**10**±14		**9**	**0-1**	
NEIC	XII 27 13 15 08.3	17.82N	66.10W	5				¶97xii5293
NEIC	MD3.0(MPR), Single network solution.							
ISC	**XII 29 12 52 36**±1.3	**18.4N**±.47	**66.4W**±.19	**140**		**9**	**0-1**	
NEIC	XII 29 12 52 35.7	18.59N	66.40W	140				¶97xii5585
NEIC	MD3.2(MPR), Poor solution.							
ISC	**XII 31 03 46 34**±3.5	**17.9N**±.31	**66.1W**±.16	**22**±25		**6**	**0-1**	
NEIC	XII 31 03 46 34.3	17.84N	66.10W	10				¶97xii5833
NEIC	MD3.0(MPR), Single network solution.							
ISC	**XII 31 21 39 45**±1.8	**18.4N**±.36	**66.2W**±.16	**100**		**9**	**0-1**	
NEIC	XII 31 21 39 44.7	18.50N	66.13W	100				¶97xii5977
NEIC	MD3.1(MPR), Poor solution.							

(92) Leeward Islands.

TRN	**VII 02 04 22 27.5**	**17.7N**	**61.6W**	**18**	**2.8D**			¶97vii0179
ISC	**VII 02 12 18 44**±1.4	**15.66N**±.078	**60.9W**±.20	**55**		**9**	**1-1**	
TRN	VII 02 12 18 42.9	15.7N	60.9W	55				¶97vii0238
TRN	MD2.9 (after DEG), MD2.8 (after FDF)							
TRN	**VII 02 21 55 01.3**	**17.5N**	**61.2W**	**21**	**2.8D**			¶97vii0303
TRN	**VII 04 05 30 32.6**	**16.7N**	**59.7W**	**98**				¶97vii0509
TRN	MD3.4							
ISC	**VII 05 10 11 37**±7.4	**18.1N**±.52	**61.4W**±.22	**2**		**8**	**1-4**	
TRN	VII 05 10 11 39.7	17.8N	61.5W	2	3.3D			¶97vii0712
ISC	**VII 06 21 18 02.1**±.65	**16.1N**±.14	**61.9W**±.22	**173**±7.8	**3.6b**	**15**	**1-73**	
EIDC	VII 06 21 17 22.3	13.2N	60.4W	0	3.9b			¶97vii0940
TRN	VII 06 21 18 00.6	16.2N	61.8W	184	3.3D			
ISC	**VII 07 07 44 49**±1.3	**15.8N**±.13	**61.2W**±.38	**91**		**5**	**0-1**	
TRN	VII 07 07 44 48.0	15.8N	61.2W	91				¶97vii1011
TRN	MD2.6 (after FDF)							
ISC	**VII 08 12 39 25**±9.5	**17.6N**±.70	**61.9W**±.20	**32**±19		**6**	**0-2**	
TRN	VII 08 12 39 26.3	17.4N	62.0W	37	3.2D			¶97vii1187
ISC	**VII 09 11 54 54.1**±.85	**16.90N**±.082	**61.92W**±.087	**16**±13		**8**	**0-1**	
TRN	VII 09 11 54 52.1	16.9N	61.9W	22	2.8D			¶97vii1332
ISC	**VII 19 09 30 22**±7.4	**15.1N**±.27	**60.7W**±.72	**45**		**5**	**0-1**	
TRN	VII 19 09 30 21.7	15.1N	60.8W	45				¶97vii2852
TRN	MD2.4(after FDF)							
ISC	**VII 22 02 25 17**±1.8	**17.6N**±.12	**61.8W**±.21	**28**		**6**	**0-58**	
TRN	VII 22 02 25 12.7	17.8N	61.7W	28	3.3D			¶97vii3317
ISC	**VII 22 17 35 29**±15	**17.8N**±.86	**61.5W**±.37	**15**±47		**7**	**1-2**	
TRN	VII 22 17 35 31.6	17.5N	61.6W	24	3.2D			¶97vii3401
ISC	**VII 23 07 34 18**±8.3	**17.6N**±.52	**61.4W**±.38	**30**		**5**	**1-2**	
TRN	VII 23 07 34 19.5	17.4N	61.6W	30	3.1D			¶97vii3496
TRN	MD2.8 (after PAG)							
TRN	**VII 25 07 59 19.1**	**15.4N**	**60.3W**	**5**	**3.5D**			¶97vii3802
TRN	MD3.4 (after FDF)							
ISC	**VII 29 21 56 55**±13	**16.0N**±.25	**60.4W**±.94	**25**		**4**	**1-1**	
TRN	VII 29 21 56 57.4	16.0N	60.7W	25				¶97vii4487
ISC	Poorly determined							
TRN	MD2.3 (after DEG)							
ISC	**VIII 02 15 58 09**±2.3	**16.1N**±.20	**61.0W**±.29	**53**		**5**	**0-1**	
TRN	VIII 02 15 58 07.9	16.1N	61.0W	53				¶97viii0234
TRN	MD2.3 (after DEG)							
ISC	**VIII 02 23 10 33**±4.3	**16.0N**±.15	**61.1W**±.30	**38**±43		**5**	**0-1**	
TRN	VIII 02 23 10 31.8	16.1N	61.1W	37				¶97viii0268
ISC	Poorly determined							
TRN	MD2.2 (after DEG)							
ISC	**VIII 06 00 42 46.1**±.62	**15.75N**±.041	**60.63W**±.064	**52**±7.4	**4.4b,3.8s**	**72**	**1-89**	
EIDC	VIII 06 00 42 40.9	15.8N	60.6W	0	4.3b,3.6s			¶97viii0740
TRN	VIII 06 00 42 45.4	15.7N	60.7W	42	4.1D			
NEIC	VIII 06 00 42 46.6	15.77N	60.65W	57	4.6b			
TRN	MD4.1 (after FDF). Felt I=II MM Martinique and Dominica							
ISC	**VIII 06 16 27 13**±2.4	**15.24N**±.073	**60.7W**±.21	**23**±18		**12**	**1-1**	
TRN	VIII 06 16 27 12.4	15.2N	60.8W	24	3.3D			¶97viii0821
TRN	MD3.4 (after FDF). Felt I=II MM Martinique							
ISC	**VIII 08 16 15 17**±1.5	**16.1N**±.12	**61.0W**±.19	**54**		**6**	**0-1**	
TRN	VIII 08 16 15 15.7	16.1N	61.0W	54				¶97viii1132
TRN	MD2.3 (after DEG)							
ISC	**VIII 09 08 24 01**±4.0	**16.0N**±.24	**60.7W**±.31	**31**±19		**7**	**1-2**	
TRN	VIII 09 08 23 59.2	16.0N	60.8W	29				¶97viii1223
TRN	MD3.2 (after FDF)							
ISC	**VIII 12 14 21 59**±5.9	**17.6N**±.41	**61.9W**±.14	**20**		**6**	**0-2**	
TRN	VIII 12 14 22 01.4	17.3N	62.0W	20	2.5D			¶97viii1763
ISC	**VIII 14 19 51 16**±8.1	**15.43N**±.082	**60.2W**±.35	**13**±48		**10**	**1-2**	
TRN	VIII 14 19 51 18.3	15.3N	60.4W	23				¶97viii2106
TRN	MD3.1 (after FDF)							
ISC	**VIII 15 19 13 33**±11	**16.6N**±.78	**61.3W**±.26	**25**±22		**5**	**0-1**	
TRN	VIII 15 19 13 33.6	16.4N	61.3W	24				¶97viii2259
ISC	Poorly determined							
TRN	MD2.3 (after DEG)							
ISC	**VIII 18 07 48 13**±1.9	**15.9N**±.11	**61.1W**±.22	**82**±20		**14**	**0-2**	
TRN	VIII 18 07 48 12.2	15.9N	61.1W	75	3.0D			¶97viii2639
TRN	MD3.0 (after FDF)							
ISC	**VIII 19 11 18 51**±5.9	**15.7N**±.29	**60.6W**±.41	**25**		**6**	**1-2**	
TRN	VIII 19 11 18 50.2	15.7N	60.7W	25				¶97viii2798
TRN	MD3.0 (after FDF)							
ISC	**VIII 19 19 26 27**±16	**15.3N**±.96	**60.3W**±.91	**27**		**4**	**1-1**	
TRN	VIII 19 19 26 27.9	15.1N	60.5W	27				¶97viii2859
ISC	Poorly determined							
TRN	MD2.6 (after FDF)							
ISC	**VIII 20 22 43 45**±11	**18.1N**±.77	**61.9W**±.21	**15**		**5**	**1-3**	
TRN	VIII 20 22 43 46.1	17.9N	62.0W	15	3.4D			¶97viii3028
TRN	**VIII 23 03 01 03.2**	**19.0N**	**61.9W**	**3**	**3.7D**			¶97viii3329
TRN	**VIII 28 16 12 31.1**	**16.1N**	**60.9W**	**30**				¶97viii4159
TRN	MD2.3 (after FDF)							
ISC	**VIII 30 08 49 33**±3.0	**15.1N**±.15	**60.8W**±.45	**73**		**6**	**0-1**	
TRN	VIII 30 08 49 32.7	15.1N	60.8W	73				¶97viii4460
TRN	MD2.5 (after FDF)							
TRN	**VIII 30 12 15 08.6**	**16.3N**	**60.9W**	**29**				¶97viii4479
TRN	MD2.1 (after FDF)							
TRN	**IX 01 14 33 20.1**	**16.1N**	**61.6W**	**7**				¶97ix0115
TRN	MD1.0 (after TAG)							
TRN	**IX 01 14 54 06.9**	**16.1N**	**60.7W**	**35**				¶97ix0121
TRN	MD2.6 (after FDF)							
ISC	**IX 03 00 22 59**±1.4	**15.73N**±.085	**61.5W**±.15	**10**		**4**	**0-0**	
TRN	IX 03 00 22 57.3	15.8N	61.5W	10				¶97ix0354
ISC	Poorly determined							
TRN	MD1.7 (after MGG)							

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**IX 04 09 25 32**±5.9	**15.2N**±.14	**61.2W**±.50	**156**±58		**12**	**0-1**
TRN	IX 04 09 25 31.0	15.2N	61.3W	158			**¶97ix0572**
TRN	MD3.0 (after FDF), MD3.4 (after TAG)						
TRN	**IX 06 18 18 10.0**	**17.2N**	**61.8W**	**35**			**¶97ix0954**
TRN	MD3.0 (after TAG)						
TRN	**IX 08 18 09 02.2**	**16.8N**	**62.2W**	**18**			**¶97ix1260**
TRN	MD2.5 (after TAG)						
TRN	**IX 10 16 44 17.2**	**15.4N**	**60.7W**	**65**			**¶97ix1549**
TRN	MD2.2 (after FDF)						
ISC	**IX 11 05 24 15**±1.1	**16.69N**±.076	**62.2W**±.12	**6**		**7**	**0-1**
TRN	IX 11 05 24 12.7	16.7N	62.2W	6	3.8D		**¶97ix1640**
TRN	MD3.4 (after PAG)						
TRN	**IX 11 06 38 02.4**	**16.7N**	**62.2W**	**1**			**¶97ix1644**
ISC	**IX 11 17 04 28**±8.1	**17.0N**±.26	**62.3W**±.90	**90**		**4**	**0-1**
TRN	IX 11 17 04 27.5	17.0N	62.3W	90	3.8D		**¶97ix1710**
ISC	Poorly determined						
ISC	**IX 11 17 58 42**±7.9	**16.7N**±.20	**62.3W**±.58	**6**		**4**	**0-1**
TRN	IX 11 17 58 41.0	16.7N	62.2W	6	3.8D		**¶97ix1715**
ISC	Poorly determined						
ISC	**IX 12 15 45 58**±10	**17.6N**±.85	**61.7W**±.39	**49**±44		**5**	**0-2**
TRN	IX 12 15 45 59.5	17.4N	61.8W	41	2.7D		**¶97ix1836**
ISC	Poorly determined						
ISC	**IX 13 17 43 25.2**±.98	**15.84N**±.096	**61.5W**±.29	**105**		**11**	**0-2**
TRN	IX 13 17 43 23.5	15.7N	61.9W	105	3.2D		**¶97ix2003**
TRN	MD3.2 (after DEG), MD3.4 (after FDF)						
ISC	**IX 14 11 14 39**±7.1	**15.2N**±.16	**60.4W**±.52	**28**±21		**7**	**1-2**
TRN	IX 14 11 14 39.6	15.1N	60.5W	35			**¶97ix2113**
TRN	MD2.7 (after FDF), MD2.7(after TAG)						
ISC	**IX 22 03 17 37**±2.5	**15.3N**±.25	**60.9W**±.72	**104**		**6**	**1-1**
TRN	IX 22 03 17 36.0	15.2N	61.0W	104	2.5D		**¶97ix3202**
TRN	MD2.5 (after FDF), MD2.4 (after MGG)						
TRN	**IX 24 14 20 08.3**	**16.3N**	**61.7W**	**144**			**¶97ix3590**
TRN	**IX 24 20 45 10.3**	**16.0N**	**61.6W**	**5**			**¶97ix3629**
TRN	MD2.2 (after TAG)						
ISC	**IX 25 23 04 11**±1.3	**15.8N**±.17	**61.4W**±.21	**33**		**4**	**0-1**
TRN	IX 25 23 04 06.5	15.6N	61.5W	33			**¶97ix3802**
ISC	Poorly determined						
TRN	MD3.5 (after PAG)						
TRN	**IX 28 16 54 58.9**	**16.1N**	**61.8W**	**178**			**¶97ix4707**
TRN	MD3.0 (after DEG)						
ISC	**IX 28 20 36 23**±1.3	**15.6N**±.11	**61.0W**±.33	**77**		**7**	**0-1**
TRN	IX 28 20 36 21.7	15.6N	61.0W	77	2.5D		**¶97ix4753**
TRN	MD2.5 (after DEG), MD2.3 (after FDF)						
ISC	**IX 29 22 21 16**±2.6	**16.0N**±.16	**60.7W**±.24	**30**±15		**9**	**0-1**
TRN	IX 29 22 21 15.0	15.9N	60.8W	28	2.7D		**¶97ix5043**
TRN	MD2.7 (after FDF)						
TRN	**IX 30 03 54 18.1**	**16.7N**	**60.8W**	**37**	**2.9D**		**¶97ix5117**
TRN	MD2.9 (after TAG)						
TRN	**IX 30 04 17 26.1**	**16.9N**	**61.0W**	**35**	**2.9D**		**¶97ix5121**
TRN	MD2.8 (after TAG)						
TRN	**IX 30 13 02 33.2**	**15.8N**	**59.6W**	**36**	**3.0D**		**¶97ix5232**
TRN	MD2.8 (after DEG), MD3.0 (after FDF)						
TRN	**X 02 03 59 51.9**	**15.7N**	**60.9W**	**15**			**¶97x0201**
TRN	MD2.3 (after TAG)						
ISC	**X 03 03 30 52.9**±.92	**15.4N**±.24	**61.3W**±.59	**157**		**6**	**0-1**
TRN	X 03 03 30 54.4	15.5N	61.3W	157			**¶97x0379**
TRN	MD3.1 (after TAG), MD3.3 (after FDF)						
TRN	**X 03 08 27 01.7**	**15.5N**	**60.2W**	**57**			**¶97x0424**
TRN	MD3.2 (after TAG)						
ISC	**X 05 17 44 44**±1.5	**16.9N**±.15	**61.6W**±.23	**43**		**6**	**0-1**
TRN	X 05 17 44 42.3	16.9N	61.6W	43	2.6D		**¶97x0896**
TRN	MD2.5 (after DEG)						
TRN	**X 06 07 47 34.7**	**17.3N**	**61.9W**	**34**	**2.4D**		**¶97x1017**
TRN	**X 07 12 19 05.3**	**16.1N**	**61.5W**	**8**			**¶97x1247**
TRN	MD1.8 (after DEG)						
TRN	**X 08 17 34 07.4**	**15.7N**	**61.0W**	**22**			**¶97x1446**
TRN	MD2.2(after DEG)						
ISC	**X 09 07 48 22**±9.5	**16.4N**±.55	**61.5W**±.22	**1**		**4**	**0-1**
TRN	X 09 07 48 21.3	16.5N	61.5W	1			**¶97x1549**
ISC	Poorly determined						
TRN	MD2.2 (after TAG)						
TRN	**X 11 20 00 25.5**	**16.7N**	**60.4W**	**15**			**¶97x1934**
TRN	MD3.0 (after DEG)						
TRN	**X 12 00 26 47.2**	**16.7N**	**60.6W**	**35**	**3.3D**		**¶97x1962**
TRN	MD3.1 (after PAG)						
ISC	**X 13 03 57 48**±11	**15.6N**±.24	**60.3W**±.86	**10**		**5**	**1-1**
TRN	X 13 03 57 48.7	15.7N	60.0W	10			**¶97x2157**
TRN	MD3.1 (after FDF)						
TRN	**X 14 03 42 38.2**	**19.4N**	**62.0W**	**33**	**3.7D**		**¶97x2331**
TRN	MD4.0 (after PAG)						
TRN	**X 14 18 47 39.9**	**15.7N**	**60.7W**	**68**			**¶97x2470**
TRN	MD2.2 (after TAG)						
ISC	**X 17 18 08 58**±1.3	**15.4N**±.18	**60.9W**±.47	**139**		**7**	**1-1**
TRN	X 17 18 08 58.9	15.4N	60.9W	139			**¶97x3036**
TRN	MD3.4 (after DEG)						
TRN	**X 18 21 47 20.3**	**15.8N**	**61.6W**	**7**			**¶97x3240**
TRN	MD1.5 (after TAG)						
ISC	**X 19 18 39 29**±2.0	**16.1N**±.10	**60.8W**±.14	**5**		**8**	**1-2**
TRN	X 19 18 39 34.3	16.0N	61.1W	5	3.0D		**¶97x3380**
TRN	MD2.8 (after PAG), MD3.0 (after FDF)						
ISC	**X 21 00 43 50**±2.3	**16.8N**±.16	**61.8W**±.81	**34**±45		**5**	**0-1**
TRN	X 21 00 43 48.6	16.9N	61.8W	35	2.4D		**¶97x3582**
ISC	Poorly determined						
TRN	MD2.6 (after PAG)						
ISC	**X 21 11 21 53**±14	**15.9N**±.76	**61.7W**±.61	**10**		**4**	**0-0**
TRN	X 21 11 21 52.3	15.9N	61.7W	10			**¶97x3650**
ISC	Poorly determined						
TRN	MD1.5 (after TAG)						
TRN	**X 22 06 01 11.4**	**15.6N**	**60.6W**	**16**			**¶97x3757**
TRN	MD2.9 (after PAG)						
ISC	**X 22 18 32 33.1**±.85	**16.69N**±.098	**62.2W**±.11	**4**±16		**9**	**0-2**
TRN	X 22 18 32 30.8	16.7N	62.2W	14	3.2D		**¶97x3868**
TRN	MD2.6 (after PAG)						
TRN	**X 23 06 41 03.5**	**17.6N**	**62.0W**	**12**	**2.5D**		**¶97x3938**
TRN	**X 23 20 30 25.7**	**16.0N**	**61.6W**	**3**			**¶97x4059**
TRN	Possible explosion MD3.2 (after PAG)						
ISC	**X 28 13 30 47**±1.2	**16.71N**±.092	**62.2W**±.13	**11**		**5**	**0-2**
TRN	X 28 13 30 44.0	16.7N	62.2W	11	3.3D		**¶97x4765**
TRN	Volcanic						
ISC	**X 28 14 02 46**±1.7	**16.7N**±.13	**62.2W**±.16	**7**±16		**5**	**0-2**
TRN	X 28 14 02 43.7	16.7N	62.1W	9	3.6D		**¶97x4770**
ISC	Poorly determined						
TRN	Volcanic						
ISC	**X 28 21 53 59**±1.4	**16.7N**±.10	**62.2W**±.13	**5**		**4**	**0-1**
TRN	X 28 21 53 55.6	16.7N	62.2W	5			**¶97x4821**
ISC	Poorly determined						
TRN	Volcanic						
ISC	**X 28 22 20 34**±1.5	**16.7N**±.13	**62.2W**±.13	**7**±18		**5**	**0-2**
TRN	X 28 22 20 32.5	16.7N	62.2W	10	3.3D		**¶97x4824**
ISC	Poorly determined						
TRN	Volcanic						
ISC	**X 29 04 59 18**±1.2	**16.7N**±.10	**62.2W**±.12	**1**±23		**6**	**0-2**
TRN	X 29 04 59 16.0	16.7N	62.2W	9	3.6D		**¶97x4856**
TRN	Volcanic						
ISC	**X 29 06 47 44**±1.1	**16.73N**±.090	**62.19W**±.093	**4**		**5**	**0-2**
TRN	X 29 06 47 41.5	16.8N	62.1W	4	3.4D		**¶97x4870**
TRN	Volcanic						
ISC	**X 29 12 17 05**±1.2	**16.69N**±.097	**62.1W**±.10	**10**		**5**	**0-2**
TRN	X 29 12 17 02.4	16.7N	62.1W	10	3.6D		**¶97x4909**
TRN	Volcanic						
TRN	**X 30 04 27 25.3**	**16.7N**	**62.2W**	**10**			**¶97x4992**
TRN	Volcanic						
ISC	**X 30 18 07 04**±1.4	**16.74N**±.097	**62.2W**±.13	**5**		**4**	**0-2**
TRN	X 30 18 07 00.9	16.8N	62.3W	5			**¶97x5076**
ISC	Poorly determined						
TRN	**X 30 20 41 10.0**	**16.0N**	**61.6W**	**6**			**¶97x5086**
TRN	Explosion. MD1.8 (after TAG)						
ISC	**XI 06 20 52 00**±4.7	**15.8N**±.16	**60.5W**±.43	**37**		**5**	**1-1**
TRN	XI 06 20 52 00.0	15.7N	60.7W	37	3.0D		**¶97xi1030**
TRN	MD3.0 (after FDF)						
ISC	**XI 07 08 07 11**±11	**16.0N**±.60	**60.6W**±.70	**29**		**5**	**1-1**
TRN	XI 07 08 07 11.7	15.9N	60.7W	29			**¶97xi1099**
TRN	MD2.9 (after PAG)						
ISC	**XI 09 09 00 03**±2.8	**15.4N**±.12	**60.7W**±.26	**35**		**8**	**1-2**
TRN	XI 09 09 00 01.9	15.4N	60.7W	35	3.2D		**¶97xi1423**
TRN	MD2.9 (after FDF)						
ISC	**XI 10 05 31 08**±4.3	**17.4N**±.14	**61.6W**±.40	**31**		**4**	**0-1**
TRN	XI 10 05 31 06.6	17.3N	61.7W	31	2.5D		**¶97xi1565**
NEIC	XI 10 05 31 07.2	17.36N	61.59W	33			
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**XI 10 08 30 57**±1.5	**17.5N**±.14	**61.9W**±.13	**27**		**4**	**0-1**
TRN	XI 10 08 30 55.1	17.5N	62.0W	27	2.5D		**¶97xi1583**
NEIC	XI 10 08 30 56.2	17.50N	61.86W	33			
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**XI 11 06 08 55**±3.9	**15.0N**±.11	**60.5W**±.60	**83**±30		**8**	**0-2**
TRN	XI 11 06 08 53.1	15.0N	60.5W	100	3.2D		**¶97xi1748**
TRN	MD2.7 (after FDF)						
ISC	**XI 11 09 15 23**±1.5	**17.9N**±.11	**61.7W**±.15	**30**	**3.4b**	**10**	**0-58**
EIDC	XI 11 09 15 11.0	17.5N	60.6W	0	3.4b		**¶97xi1763**
NEIC	XI 11 09 15 18.6	17.89N	61.29W	33			
TRN	XI 11 09 15 22.2	17.8N	61.7W	30	3.6D		
NEIC	Poor solution.						
TRN	MD3.8 (after PAG)						
ISC	**XI 15 08 21 14**±1.8	**15.77N**±.086	**60.9W**±.25	**94**±18		**14**	**0-3**
NEIC	XI 15 08 21 13.1	15.82N	60.71W	80			**¶97xi2443**
TRN	XI 15 08 21 15.3	15.8N	60.7W	82	3.4D		
NEIC	Single network solution.						
TRN	MD3.4 (after FDF)						
ISC	**XI 17 11 53 47**±1.0	**15.18N**±.065	**61.0W**±.26	**163**±5.9	**3.4b**	**24**	**0-60**
EIDC	XI 17 11 53 24.2	14.7N	60.4W	0	3.7b		**¶97xi2791**
NEIC	XI 17 11 53 46.8	15.18N	61.04W	162			
TRN	XI 17 11 53 47.2	15.2N	61.1W	151	3.9D		
TRN	MD3.7 (after FDF)						
TRN	**XI 20 11 30 09.3**	**17.0N**	**62.3W**	**21**			**¶97xi3453**
TRN	MD2.3 (after PAG)						
ISC	**XI 20 15 56 21**±6.4	**17.2N**±.19	**62.3W**±.24	**112**±61		**7**	**0-2**
TRN	XI 20 15 56 19.9	17.2N	62.3W	117	3.0D		**¶97xi3488**
NEIC	XI 20 15 56 20.1	17.18N	62.40W	120			
TRN	$M_{D2.6}$ (DOG)						
NEIC	Less reliable solution.						
ISC	**XI 27 17 37 15**±2.2	**17.6N**±.12	**61.8W**±.18	**23**		**6**	**0-1**
TRN	XI 27 17 37 11.8	17.6N	61.6W	23	2.6D		**¶97xi4910**
ISC	**XI 30 02 37 39**±4.9	**17.2N**±.39	**61.7W**±.27	**41**±24		**12**	**0-7**
TRN	XI 30 02 37 37.6	17.3N	61.7W	34	3.4D		**¶97xi5354**
TRN	MD3.7 (after FDF)						
TRN	**XI 30 19 39 04.1**	**15.5N**	**61.0W**	**144**			**¶97xi5452**
TRN	MD2.5 (after FDF)						
ISC	**XII 11 15 14 05**±1.8	**17.6N**±.22	**62.8W**±.26	**117**±13		**7**	**0-2**
NEIC	XII 11 15 14 03.7	17.64N	62.89W	120			**¶97xii2591**
TRN	XII 11 15 14 04.4	17.6N	62.8W	114	3.2D		
NEIC	Poor solution.						
ISC	**XII 12 12 32 01**±3.8	**16.1N**±.21	**60.7W**±.30	**39**		**7**	**0-2**
TRN	XII 12 12 32 02.9	16.1N	60.8W	39			**¶97xii2750**
TRN	MD3.1 (after FDF)						
ISC	**XII 13 04 47 26**±11	**15.1N**±.19	**60.3W**±.89	**24**		**4**	**1-1**
TRN	XII 13 04 47 25.1	15.1N	60.3W	24			**¶97xii2891**
ISC	Poorly determined						
TRN	MD2.7 (after FDF)						
ISC	**XII 17 22 17 56**±5.8	**15.6N**±.17	**60.5W**±.57	**30**		**6**	**1-1**
NEIC	XII 17 22 17 56.0	15.59N	60.46W	33			**¶97xii3669**
TRN	XII 17 22 17 56.8	15.5N	60.7W	30	3.1D		
NEIC	M_D3.0(FDF), Poor solution.						
TRN	MD3.0 (after FDF)						
ISC	**XII 18 19 52 31**±4.5	**15.02N**±.098	**60.4W**±.40	**36**		**8**	**1-2**
TRN	XII 18 19 52 29.8	15.0N	60.4W	36	3.4D		**¶97xii3815**
NEIC	XII 18 19 52 30.9	15.02N	60.44W	33			
TRN	MD3.2 (after FDF)						
NEIC	Poor solution.						
ISC	**XII 19 12 59 02**±1.1	**17.50N**±.078	**61.92W**±.096	**7**±14		**7**	**0-1**
TRN	XII 19 12 58 59.3	17.5N	62.0W	5	2.8D		**¶97xii3967**
NEIC	XII 19 12 59 01.6	17.51N	61.91W	10			
TRN	MD2.7 (after PAG)						
TRN	**XII 20 13 20 41.4**	**16.7N**	**60.9W**	**16**	**3.0D**		**¶97xii4119**
TRN	MD2.7 (after PAG)						
ISC	**XII 27 08 49 50**±1.1	**17.38N**±.096	**62.01W**±.097	**16**±30		**6**	**0-1**
TRN	XII 27 08 49 47.5	17.4N	62.0W	16	2.5D		**¶97xii5272**
NEIC	XII 27 08 49 49.7	17.36N	62.03W	10			
NEIC	$M_{D2.1}$(FDF).						

TRN	**XII**	**28 08 53 53.3**	**15.3N**	**61.1W**	**35**			¶**97xii5427**
TRN		MD2.3 (after FDF)						
ISC	**XII**	**28 22 22 49**±13	**17.4N**±.32	**60.8W**±.88	**4**		**5**	**1-2**
TRN	XII	28 22 22 50.6	17.4N	61.1W	4	2.8D	¶**97xii5503**	
ISC	**XII**	**29 15 46 44**±5.2	**16.8N**±.15	**62.2W**±.23	**127**±50		**9**	**0-1**
TRN	XII	29 15 46 42.1	16.8N	62.1W	138	2.7D	¶**97xii5606**	
NEIC	XII	29 15 46 44.2	16.78N	62.24W	120			
NEIC		MD2.8(FDF), Less reliable solution.						
TRN	**XII**	**30 11 58 40.3**	**17.0N**	**61.5W**	**35**			¶**97xii5731**
TRN		MD3.0 (after PAG)						

(93) Belize.

ISC	**VII**	**06 20 13 37.0**±.23	**16.07N**±.039	**88.09W**±.032	**33**	**5.4b,5.5s**	**343**	**4-148**
EIDC	VII	06 20 13 32.1	16.1N	87.7W	0	4.9b,5.5s	¶**97vii0930**	
HRVD	VII	06 20 13 34.0±.1	16.00N±.01	88.00W±.01	15			
NEIC	VII	06 20 13 37.0	16.16N	87.92W	33	5.5b,5.5s		
MOS	VII	06 20 13 39.5	16.3N	88.0W	33	5.6b,5.5s		
BJI	VII	06 20 13 40.0	16.10N	87.90W	33	6.3s		

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s65,c127; Mantle waves: s5,c6; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.40±.06; $M_{\theta\theta}$−4.67±.07; $M_{\phi\phi}$5.07±.09; $M_{r\theta}$−1.92±.18; $M_{r\theta}$0.38±.21; $M_{\theta\phi}$3.60±.06. Principal Axes: T 6.27,Plg2°,Azm109°; N 0.21,Plg72°,Azm205°; P −6.48,Plg18°,Azm18°. Best double couple: M0 6.4×10^{17}Nm, NP1:ϕ_S155°,δ76°,λ−169°. NP2:ϕ_S62°,δ79°,λ−14°.

NEIC Mw6.1(GS), Mw5.8(HRV)

NEIC Felt in the San Pedro Sula area, Honduras and in the Dangriga area, Belize.

NEIC Moment tensor solution: s25, scale 10^{18}Nm; M_{rr}0.13; $M_{\theta\theta}$−1.50; $M_{\phi\phi}$1.38; $M_{r\theta}$−0.24; $M_{r\theta}$0.39; $M_{\theta\phi}$0.82. Depth 37km; Principal axes: T 1.66,Plg12°,Azm284°; N 0.12,Plg74°, Azm145°; P −1.78,Plg10°,Azm16°. Best double couple: M0 1.7×10^{18}Nm; NP1:ϕ_S60°,δ74°, λ1°. NP2:ϕ_S330°,δ89°,λ164°.

(94) Caribbean Sea.

ISC	**VII**	**09 23 57 16.8**±.69	**11.3N**±.15	**63.4W**±.10	**10**	**3.6b**	**13**	**2-81**
NEIC	VII	09 23 57 16.0	11.16N	63.24W	10		¶**97vii1411**	
EIDC	VII	09 23 57 16.2	11.2N	63.3W	0	3.6b		
NEIC		Single network solution.						
ISC	**VII**	**09 23 57 28.6**±.55	**11.04N**±.098	**63.5W**±.13	**10**	**4.0b**	**15**	**28-81**
NEIC	VII	09 23 57 28.4	11.02N	63.51W	10		¶**97vii1412**	
EIDC	VII	09 23 57 28.8	11.0N	63.5W	0	3.9b		
NEIC		Single network solution.						
TRN	**VII**	**10 10 47 27.0**	**11.0N**	**63.4W**	**3**	**3.5D**	¶**97vii1499**	
TRN	**VII**	**11 11 45 16.0**	**11.1N**	**63.2W**	**5**	**3.4D**	¶**97vii1681**	
TRN	**VII**	**12 08 03 32.8**	**11.3N**	**63.2W**	**5**	**3.3D**	¶**97vii1791**	
ISC	**VII**	**15 04 21 29.2**±.75	**16.88N**±.086	**85.80W**±.081	**41**±2.9*	**3.9b**	**23**	**10-85**
NEIC	VII	15 04 21 29.5	16.91N	85.71W	43	4.3b	¶**97vii2252**	
EIDC	VII	15 04 21 31.1	16.9N	85.7W	43	3.6b,4.3L		
NEIC		Less reliable solution.						
TRN	**VII**	**21 02 15 19.8**	**11.1N**	**63.4W**	**3**	**3.9D**	¶**97vii3176**	
EIDC	**IX**	**07 15 46 14.6**	**18.6N**	**85.2W**	**33**	3.6b	¶**97ix1098**	
ISC	**IX**	**08 18 52 40**±6.2	**16.7N**±.15	**86.0W**±.14	**19**±44	**4.2b,4.1s**	**23**	**6-145**
NEIC	IX	08 18 52 38.1	16.63N	85.98W	10	4.3b	¶**97ix1266**	
EIDC	IX	08 18 52 39.1	16.8N	86.0W	0	4.2s,4.2b		
NEIC		Less reliable solution.						
ISC	**X**	**29 02 40 04.7**±.28	**17.57N**±.046	**83.68W**±.046	**36**±3.1*	**4.8b,4.2s**	**139**	**12-148**
NEIC	X	29 02 40 00.3	17.50N	83.71W	10	5.0b,4.2s	¶**97x4843**	
EIDC	X	29 02 40 05.6	17.4N	83.9W	38	4.5b,4.1s		
EIDC	**XI**	**11 16 01 13.1**	**16.2N**	**84.4W**	**0**	3.4b	¶**97xi1819**	
ISC	**XI**	**20 10 02 50**±1.9	**13.9N**±.25	**70.8W**±.56	**33**	**3.6b**	**8**	**34-155**
EIDC	XI	20 10 02 47.0	14.0N	70.7W	0	3.6b	¶**97xi3442**	
TRN	**XI**	**22 20 26 12.4**	**11.8N**	**63.3W**	**6**	**3.4D**	¶**97xi3958**	
ISC	**XII**	**14 02 38 40.3**±.68	**12.7N**±.15	**81.3W**±.28	**5**	**3.5b**	**13**	**4-145**
EIDC	XII	14 02 38 39.1±2.37	12.6N	81.0W	0	3.6b	¶**97xii3067**	
NEIC	XII	14 02 38 39.9	12.65N	81.34W	5	3.7b		
EIDC		Error ellipse is semi−major=87.9km semi−minor=38.9km azimuth=82						
NEIC		Less reliable solution.						

(95) Windward Islands.

ISC	**VII**	**02 19 35 02**±5.5	**11.1N**±.59	**62.4W**±.52	**2**±32	3.6b	**5**	**1-63**
TRN	VII	02 19 35 03.1	11.1N	62.4W	3	3.0D	¶**97vii0290**	
ISC		Poorly determined						
ISC	**VII**	**06 09 34 55**±1.0	**11.56N**±.067	**61.5W**±.26	**18**		**5**	**1-2**
TRN	VII	06 09 34 54.1	11.5N	61.3W	18	3.3D	¶**97vii0858**	
ISC	**VII**	**06 16 26 50**±1.3	**14.8N**±.17	**60.9W**±.43	**127**		**7**	**0-1**
TRN	VII	06 16 26 49.1	14.8N	60.9W	127		¶**97vii0905**	
TRN		MD3.2 (after DEG)						
ISC	**VII**	**06 19 30 18**±3.2	**11.1N**±.10	**61.9W**±.50	**35**		**5**	**0-2**
TRN	VII	06 19 30 18.5	11.1N	61.8W	35	3.0D	¶**97vii0925**	
ISC	**VII**	**07 01 42 37.1**±.54	**11.19N**±.047	**62.25W**±.092	**123**±5.9	**4.0b**	**33**	**1-145**
NEIC	VII	07 01 42 36.8	11.18N	62.25W	123	3.7b	¶**97vii0968**	
TRN	VII	07 01 42 38.0	11.1N	62.1W	123	4.2D		
EIDC	VII	07 01 42 41.2	11.3N	62.4W	145	3.6b		
ISC	**VII**	**10 14 03 33**±1.6	**11.31N**±.097	**60.4W**±.15	**5**	**3.6b**	**11**	**0-78**
EIDC	VII	10 14 03 31.3	11.2N	59.9W	0	3.5b	¶**97vii1519**	
TRN	VII	10 14 03 34.7	11.3N	60.5W	5	3.4D		
NEIC	VII	10 14 03 37.7	11.31N	60.72W	5	3.7b		
ISC	**VII**	**12 13 56 23**±3.0	**14.6N**±.23	**60.8W**±.69	**80**		**4**	**0-1**
TRN	VII	12 13 56 21.4	14.6N	60.7W	80		¶**97vii1824**	
ISC		Poorly determined						
ISC	**VII**	**12 15 18 01**±1.3	**11.43N**±.090	**60.97W**±.090	**10**		**10**	**0-2**
TRN	VII	12 15 17 59.9	11.4N	60.8W	36	3.3D	¶**97vii1830**	
NEIC	VII	12 15 18 00.9	11.43N	60.97W	10			
NEIC		Single network solution.						
ISC	**VII**	**12 21 10 29**±3.5	**11.3N**±.11	**60.7W**±.30	**8**±12		**7**	**0-1**
TRN	VII	12 21 10 24.6	11.3N	60.5W	5	3.3D	¶**97vii1869**	
NEIC	VII	12 21 10 28.4	11.28N	60.67W	10			
NEIC		Single network solution.						
TRN	**VII**	**17 05 37 26.5**	**14.2N**	**60.5W**	**60**		¶**97vii2548**	
TRN		MD2.3(after FDF)						
ISC	**VII**	**23 23 27 34**±5.0	**14.7N**±.15	**60.8W**±.35	**12**		**4**	**0-0**
TRN	VII	23 23 27 33.3	14.7N	60.9W	12		¶**97vii3588**	
ISC		Poorly determined						
TRN		Md = 2.0 MD2.0 (after FDF)						
ISC	**VII**	**26 08 01 53**±15	**11.1N**±.58	**60.8W**±.68	**3**		**4**	**1-1**
TRN	VII	26 08 01 50.1	11.0N	60.8W	3	3.0D	¶**97vii3937**	
ISC		Poorly determined						
ISC	**VII**	**28 10 35 01**±4.3	**14.7N**±.13	**60.8W**±.30	**10**		**4**	**0-0**
TRN	VII	28 10 34 59.7	14.7N	60.9W	10		¶**97vii4253**	
ISC		Poorly determined						
TRN		MD2.3 (after FDF)						
ISC	**VIII**	**02 04 33 41.3**±.76	**11.36N**±.052	**60.7W**±.15	**73**±6.1	**3.9b**	**24**	**0-78**
EIDC	VIII	02 04 33 33.3	11.7N	59.8W	0	4.1b,4.5L	¶**97viii0169**	
TRN	VIII	02 04 33 41.5	11.3N	60.7W	46	3.6D		
NEIC	VIII	02 04 33 42.8	11.42N	60.79W	33	4.0b		
NEIC		Less reliable solution.						
ISC	**VIII**	**04 04 01 03**±1.2	**14.14N**±.077	**61.1W**±.35	**29**±22		**6**	**0-1**
TRN	VIII	04 04 01 01.0	14.1N	61.1W	26	3.3D	¶**97viii0453**	
TRN		MD2.8 (after FDF)						
ISC	**VIII**	**04 22 38 18**±1.3	**11.1N**±.14	**61.0W**±.13	**2**±26		**6**	**0-3**
TRN	VIII	04 22 38 15.6	11.0N	61.0W	10	3.2D	¶**97viii0566**	
NEIC	VIII	04 22 38 17.7	11.02N	60.94W	10			
NEIC		Single network solution.						
ISC	**VIII**	**05 22 15 10**±1.1	**11.03N**±.077	**60.9W**±.12	**10**		**7**	**0-3**
TRN	VIII	05 22 15 06.8	11.0N	60.9W	3	3.4D	¶**97viii0725**	
NEIC	VIII	05 22 15 09.7	11.02N	60.91W	10			
NEIC		Single network solution.						
ISC	**VIII**	**16 07 48 04**±3.0	**11.10N**±.091	**60.7W**±.29	**10**		**6**	**0-1**
TRN	VIII	16 07 48 01.6	11.1N	60.8W	3	3.2D	¶**97viii2332**	
NEIC	VIII	16 07 48 03.6	11.11N	60.74W	10			
NEIC		Poor solution.						
ISC	**VIII**	**16 16 58 38**±1.0	**11.02N**±.075	**60.98W**±.098	**5**		**6**	**0-1**
TRN	VIII	16 16 58 36.0	11.0N	61.0W	7	2.8D	¶**97viii2393**	
NEIC	VIII	16 16 58 38.2	11.02N	60.98W	5			
NEIC		Single network solution.						
ISC	**VIII**	**17 21 41 14**±1.3	**14.9N**±.13	**60.9W**±.40	**116**		**7**	**0-1**
TRN	VIII	17 21 41 12.8	14.9N	60.8W	116		¶**97viii2588**	
TRN		MD2.7 (after FDF)						
ISC	**VIII**	**23 00 53 37**±6.8	**11.4N**±.15	**60.7W**±.53	**1**		**4**	**1-1**
TRN	VIII	23 00 53 36.2	11.4N	60.9W	1	3.0D	¶**97viii3313**	
ISC		Poorly determined						
ISC	**VIII**	**24 15 27 04.2**±.56	**14.96N**±.059	**61.1W**±.18	**117**±5.3	**3.9b**	**25**	**0-164**
EIDC	VIII	24 15 26 52.0	14.9N	61.0W	0	4.0b	¶**97viii3559**	
TRN	VIII	24 15 27 03.7	15.0N	60.9W	105	4.2D		
NEIC	VIII	24 15 27 04.7	14.94N	61.14W	121			
TRN		MD3.9 (after FDF)						
NEIC		Less reliable solution.						
ISC	**VIII**	**25 04 57 48**±1.4	**12.88N**±.063	**60.7W**±.28	**27**		**8**	**1-2**
TRN	VIII	25 04 57 46.9	12.9N	60.7W	27	3.6D	¶**97viii3647**	
NEIC	VIII	25 04 57 48.2	12.88N	60.69W	33			
TRN		MD3.3 (after FDF). Felt I=II MM Martinique						
NEIC		Single network solution.						
ISC	**VIII**	**26 19 44 59**±6.5	**14.7N**±.22	**61.1W**±.39	**141**±61		**9**	**0-2**
TRN	VIII	26 19 44 58.5	14.7N	61.0W	146		¶**97viii3894**	
TRN		MD3.2 (after FDF)						
ISC	**VIII**	**27 21 49 43**±2.1	**11.2N**±.11	**61.8W**±.33	**30**		**4**	**1-1**
NEIC	VIII	27 21 49 42.5	11.20N	61.85W	33		¶**97viii4043**	
TRN	VIII	27 21 49 42.6	11.2N	61.8W	30	2.6D		
ISC		Poorly determined						
NEIC		Poor solution.						
ISC	**VIII**	**29 13 15 14**±1.4	**11.48N**±.093	**61.5W**±.29	**10**		**4**	**1-1**
TRN	VIII	29 13 15 13.7	11.5N	61.4W	10	3.0D	¶**97viii4311**	
NEIC	VIII	29 13 15 14.8	11.55N	61.48W	33			
ISC		Poorly determined						
NEIC		Poor solution.						
TRN	**VIII**	**29 19 47 23.4**	**14.0N**	**60.8W**	**29**		¶**97viii4370**	
TRN		MD2.1 (after BIM)						
ISC	**VIII**	**31 01 33 59**±1.3	**11.55N**±.085	**61.6W**±.29	**10**		**5**	**1-1**
TRN	VIII	31 01 33 58.4	11.5N	61.5W	3	3.0D	¶**97viii4567**	
NEIC	VIII	31 01 33 58.9	11.53N	61.57W	10			
NEIC		Poor solution.						
TRN	**IX**	**02 08 41 56.4**	**14.9N**	**60.5W**	**39**		¶**97ix0245**	
TRN		MD2.6 (after FDF)						
ISC	**IX**	**03 12 10 26**±2.4	**11.0N**±.11	**62.0W**±.26	**50**		**6**	**0-1**
TRN	IX	03 12 10 24.5	11.0N	62.1W	65	2.8D	¶**97ix0425**	
NEIC	IX	03 12 10 25.9	11.04N	61.97W	50			
NEIC		Single network solution.						
TRN	**IX**	**03 22 52 42.8**	**14.9N**	**60.5W**	**37**		¶**97ix0506**	
TRN		MD2.4 (after FDF)						
ISC	**IX**	**04 02 27 59**±4.0	**11.0N**±.18	**61.9W**±.74	**73**		**4**	**0-1**
TRN	IX	04 02 27 59.8	11.1N	61.9W	73	2.8D	¶**97ix0536**	
ISC		Poorly determined						
ISC	**IX**	**04 11 50 15**±1.1	**11.05N**±.077	**61.11W**±.086	**5**		**5**	**0-1**
NEIC	IX	04 11 50 14.7	11.05N	61.11W	5		¶**97ix0580**	
TRN	IX	04 11 50 15.0	11.0N	61.1W	11	2.5D		
NEIC		Single network solution.						
ISC	**IX**	**04 12 31 45**±1.1	**11.10N**±.081	**60.8W**±.15	**1**±21		**7**	**0-1**
TRN	IX	04 12 31 44.3	11.2N	60.8W	11	3.2D	¶**97ix0590**	
NEIC	IX	04 12 31 44.4	11.10N	60.76W	5			
NEIC		Single network solution.						
ISC	**IX**	**04 19 44 24.8**±.81	**11.12N**±.057	**60.71W**±.092	**17**±5.8	**3.7b**,3.4s	**20**	**0-78**
NEIC	IX	04 19 44 23.6	11.11N	60.65W	10	3.9b	¶**97ix0628**	
EIDC	IX	04 19 44 23.6	11.2N	60.9W	0	3.7b,3.3s		
TRN	IX	04 19 44 25.1	11.1N	60.8W	9	3.6D		
TRN		Felt in Tobago						
TRN	**IX**	**06 04 06 06.2**	**14.4N**	**60.8W**	**156**		¶**97ix0856**	
TRN		MD2.4 (after ZAM)						
ISC	**IX**	**06 06 00 37**±8.1	**11.1N**±.13	**60.6W**±.52	**7**±21		**6**	**0-2**
NEIC	IX	06 06 00 36.5	11.07N	60.53W	5		¶**97ix0865**	
TRN	IX	06 06 00 38.4	11.1N	60.7W	10	2.8D		
NEIC		Poor solution.						
ISC	**IX**	**06 06 22 21**±2.6	**11.09N**±.084	**60.7W**±.23	**4**		**6**	**0-1**
TRN	IX	06 06 22 21.6	11.1N	60.7W	4	2.5D	¶**97ix0871**	
TRN	**IX**	**07 14 45 26.3**	**14.6N**	**60.6W**	**65**		¶**97ix1085**	
TRN		MD2.3 (after ZAM)						
TRN	**IX**	**08 00 33 07.9**	**14.9N**	**60.8W**	**34**		¶**97ix1145**	
TRN		MD2.0 (after ZAM)						
TRN	**IX**	**08 06 22 44.9**	**14.8N**	**60.9W**	**53**		¶**97ix1184**	
TRN		MD2.2 (after ZAM)						
ISC	**IX**	**09 03 57 52**±2.1	**14.97N**±.083	**60.7W**±.30	**45**±28		**13**	**0-2**
TRN	IX	09 03 57 51.3	14.9N	60.7W	45		¶**97ix1320**	
TRN		MD2.6 (after FDF)						
ISC	**IX**	**09 09 27 45**±3.0	**11.66N**±.099	**60.7W**±.26	**48**±56		**7**	**0-2**
NEIC	IX	09 09 27 45.3	11.65N	60.72W	50		¶**97ix1350**	
TRN	IX	09 09 27 45.4	11.6N	60.7W	49	3.1D		
NEIC		Single network solution.						
TRN	**IX**	**09 09 32 11.2**	**15.0N**	**60.7W**	**76**	**2.2D**	¶**97ix1351**	
TRN	**IX**	**10 07 13 27.6**	**15.0N**	**61.0W**	**80**		¶**97ix1489**	
TRN		MD2.5 (after FDF)						
TRN	**IX**	**10 08 11 58.8**	**15.0N**	**60.4W**	**35**		¶**97ix1493**	
TRN		MD2.6 (after FDF)						

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
TRN	**IX 13 18 52 19.5**	**13.8N**	**61.0W**	**1**			**¶97ix2019**
TRN	**IX 13 19 16 14.5**	**13.8N**	**61.0W**	**1**			**¶97ix2020**
TRN	Volcanic						
TRN	**IX 13 19 17 45.1**	**13.5N**	**60.7W**	**5**			**¶97ix2022**
TRN	MD2.9 (after FDF)						
TRN	**IX 13 20 33 42.4**	**15.0N**	**60.6W**	**60**			**¶97ix2034**
TRN	MD2.1 (after FDF)						
ISC	**IX 16 14 14 18**±2.9	**11.0N**±.10	**60.7W**±.26	**10**		**6**	**0-1**
NEIC	IX 16 14 14 18.3	11.07N	60.75W	10			**¶97ix2397**
TRN	IX 16 14 14 18.4	11.0N	60.7W	3	3.0D		
NEIC	Single network solution.						
ISC	**IX 19 09 48 57**±1.1	**11.45N**±.079	**61.34W**±.094	**10**		**6**	**1-1**
TRN	IX 19 09 48 54.9	11.4N	61.3W	16	2.9D		**¶97ix2775**
NEIC	IX 19 09 48 56.8	11.45N	61.34W	10			
NEIC	Single network solution.						
ISC	**IX 19 23 38 03**±3.0	**11.1N**±.12	**60.7W**±.29	**16**		**5**	**0-1**
TRN	IX 19 23 38 02.7	11.1N	60.7W	16	2.8D		**¶97ix2871**
ISC	**IX 20 19 05 12**±2.8	**11.1N**±.11	**60.7W**±.27	**10**		**5**	**0-1**
TRN	IX 20 19 05 12.4	11.1N	60.7W	18	2.7D		**¶97ix2990**
NEIC	IX 20 19 05 12.4	11.05N	60.71W	10			
NEIC	Single network solution.						
ISC	**IX 21 07 54 45**±2.6	**11.1N**±.10	**60.6W**±.24	**20**±8.5	**3.5b**	**11**	**0-78**
NEIC	IX 21 07 54 46.1	11.15N	60.74W	23			**¶97ix3065**
EIDC	IX 21 07 54 47.2	11.4N	61.0W	0	3.3b,4.0s		
TRN	IX 21 07 54 47.3	11.1N	60.8W	11	3.2D		
NEIC	Less reliable solution.						
TRN	**IX 21 10 30 38.6**	**14.3N**	**61.1W**	**32**	**1.9D**		**¶97ix3084**
TRN	MD1.9 (after MVM)						
TRN	**IX 21 19 38 20.6**	**13.9N**	**60.2W**	**35**			**¶97ix3149**
TRN	MD3.3 (after FDF)						
TRN	**IX 27 18 28 21.2**	**11.0N**	**62.4W**	**76**	**3.3D**		**¶97ix4429**
ISC	**IX 28 12 53 55**±4.0	**14.6N**±.23	**60.8W**±.26	**19**		**5**	**0-2**
TRN	IX 28 12 53 54.6	14.6N	60.8W	19			**¶97ix4653**
ISC	**IX 29 00 58 46**±1.6	**11.4N**±.10	**61.0W**±.13	**17**		**5**	**0-1**
TRN	IX 29 00 58 44.3	11.4N	60.9W	17	2.8D		**¶97ix4814**
ISC	**IX 30 02 35 08**±1.8	**11.23N**±.083	**61.8W**±.27	**20**		**5**	**1-1**
TRN	IX 30 02 35 06.8	11.3N	61.8W	20	3.1D		**¶97ix5104**
TRN	**IX 30 16 40 57.5**	**14.6N**	**60.5W**	**29**			**¶97ix5275**
TRN	MD2.4 (after FDF)						
TRN	**X 04 13 14 40.1**	**13.7N**	**60.8W**	**91**			**¶97x0651**
TRN	MD2.4 (after FDF)						
TRN	**X 06 04 47 12.9**	**11.4N**	**62.2W**	**69**	**3.0D**		**¶97x0990**
TRN	**X 06 19 26 23.1**	**14.7N**	**60.7W**	**40**			**¶97x1107**
TRN	MD2.2 (after FDF)						
ISC	**X 08 20 11 36**±4.0	**11.2N**±.16	**62.1W**±.64	**100**		**5**	**1-1**
TRN	X 08 20 11 34.0	11.2N	62.4W	103	3.0D		**¶97x1466**
NEIC	X 08 20 11 36.0	11.21N	62.11W	100			
NEIC	Poor solution.						
ISC	**X 11 04 40 18**±1.0	**11.22N**±.097	**60.95W**±.080	**20**		**6**	**0-1**
TRN	X 11 04 40 16.5	11.2N	61.0W	22	2.8D		**¶97x1846**
NEIC	X 11 04 40 18.0	11.22N	60.96W	20			
NEIC	Single network solution.						
TRN	**X 12 01 50 30.7**	**11.2N**	**61.0W**	**28**	**2.5D**		**¶97x1971**
TRN	**X 12 13 39 56.2**	**11.3N**	**60.9W**	**24**	**2.2D**		**¶97x2050**
ISC	**X 15 02 42 41**±12	**14.9N**±.29	**60.2W**±.87	**10**		**5**	**1-2**
TRN	X 15 02 42 41.4	14.8N	60.0W	10			**¶97x2542**
TRN	MD3.3 (after FDF)						
TRN	**X 15 22 41 30.5**	**11.3N**	**62.1W**	**24**	**3.0D**		**¶97x2738**
TRN	**X 17 00 52 00.4**	**13.3N**	**60.6W**	**68**	**3.1D**		**¶97x2912**
TRN	MD3.2 (after FDF)						
TRN	**X 17 04 48 59.4**	**13.1N**	**61.3W**	**25**	**3.3D**		**¶97x2930**
TRN	Reported felt in St. Vincent. MD2.8(after MVM)						
TRN	**X 17 21 57 22.9**	**11.4N**	**62.1W**	**61**	**3.1D**		**¶97x3065**
TRN	**X 20 01 13 01.3**	**14.8N**	**60.6W**	**95**			**¶97x3413**
TRN	MD2.5 (after FDF)						
ISC	**X 20 07 13 43**±2.4	**11.46N**±.083	**61.4W**±.13	**59**±58		**8**	**1-2**
TRN	X 20 07 13 40.6	11.4N	61.5W	12	3.2D		**¶97x3460**
ISC	**X 21 02 01 35.2**±.75	**11.07N**±.062	**60.99W**±.067	**2**		**8**	**0-2**
TRN	X 21 02 01 35.5	11.1N	61.0W	2	3.1D		**¶97x3586**
ISC	**X 22 07 57 59**±2.9	**11.0N**±.15	**62.0W**±.45	**74**		**5**	**0-1**
TRN	X 22 07 57 58.1	11.1N	62.1W	74	2.8D		**¶97x3775**
TRN	**X 23 05 19 25.1**	**11.0N**	**62.3W**	**22**	**2.9D**		**¶97x3928**
ISC	**X 25 14 55 20**±2.5	**13.28N**±.050	**60.6W**±.49	**89**±57		**14**	**1-3**
TRN	X 25 14 55 20.3	13.2N	60.7W	79	3.7D		**¶97x4341**
TRN	MD4.0 (after DEG), MD3.9 (after FDF)						
ISC	**X 26 04 12 34**±1.2	**11.25N**±.075	**61.5W**±.12	**10**		**6**	**1-1**
TRN	X 26 04 12 33.8	11.3N	61.5W	10	2.6D		**¶97x4415**
TRN	**XI 03 00 33 37.1**	**11.0N**	**61.8W**	**19**	**2.8D**		**¶97xi0362**
ISC	**XI 04 07 56 49**±6.1	**11.3N**±.94	**60.8W**±.29	**41**		**4**	**0-1**
TRN	XI 04 07 56 48.4	11.3N	60.8W	41	2.2D		**¶97xi0596**
ISC	Poorly determined						
TRN	**XI 05 10 07 37.0**	**13.6N**	**60.0W**	**14**			**¶97xi0768**
TRN	MD3.4 (after FDF)						
ISC	**XI 08 16 01 00**±12	**12.9N**±.69	**60.3W**±.47	**16**		**6**	**1-2**
TRN	XI 08 16 01 01.6	13.1N	60.5W	16	2.9D		**¶97xi1312**
TRN	MD3.5 (after FDF)						
TRN	**XI 08 16 44 38.1**	**14.1N**	**60.5W**	**57**			**¶97xi1319**
TRN	MD2.6 (after FDF)						
TRN	**XI 09 06 02 17.1**	**14.2N**	**61.1W**	**24**			**¶97xi1409**
TRN	MD2.3 (after FDF)						
TRN	**XI 11 09 26 08.3**	**11.6N**	**61.4W**	**31**	**2.7D**		**¶97xi1765**
TRN	**XI 11 17 42 46.5**	**13.8N**	**60.6W**	**98**			**¶97xi1838**
TRN	MD3.1 MD3.1 (after FDF)						
ISC	**XI 11 22 42 21.0**±.89	**11.14N**±.076	**61.05W**±.067	**10**		**7**	**0-1**
TRN	XI 11 22 42 18.7	11.1N	61.1W	10	2.8D		**¶97xi1887**
NEIC	XI 11 22 42 21.0	11.14N	61.05W	10			
NEIC	Single network solution.						
ISC	**XI 13 01 42 53**±2.6	**11.14N**±.087	**62.0W**±.28	**22**		**7**	**0-2**
TRN	XI 13 01 42 50.3	11.1N	62.2W	22	3.2D		**¶97xi2063**
NEIC	XI 13 01 42 52.7	11.10N	62.07W	33			
NEIC	Single network solution.						
ISC	**XI 14 07 13 09**±1.6	**11.13N**±.070	**61.8W**±.14	**15**		**9**	**0-2**
TRN	XI 14 07 13 05.9	11.1N	62.1W	15	3.1D		**¶97xi2255**
NEIC	XI 14 07 13 08.1	11.04N	61.92W	33			
NEIC	Less reliable solution.						
ISC	**XI 15 03 02 40**±2.4	**11.1N**±.19	**61.1W**±.12	**5**		**4**	**0-1**
TRN	XI 15 03 02 37.2	11.1N	61.0W	5	2.6D		**¶97xi2406**
NEIC	XI 15 03 02 39.8	11.13N	61.07W	10			
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**XI 15 03 52 21**±8.3	**14.5N**±.41	**60.7W**±.58	**26**		**5**	**0-1**
TRN	XI 15 03 52 17.1	14.4N	60.6W	26	2.9D		**¶97xi2410**
TRN	MD2.7 (after FDF)						
TRN	**XI 17 22 20 40.8**	**14.2N**	**61.0W**	**27**	**2.3D**		**¶97xi2868**
TRN	MD2.7 (after FDF)						
ISC	**XI 19 22 12 48**±3.0	**11.1N**±.14	**62.4W**±.39	**161**		**9**	**1-2**
NEIC	XI 19 22 12 49.6	11.15N	62.33W	150			**¶97xi3323**
TRN	XI 19 22 12 49.9	11.1N	62.2W	161	3.4D		
NEIC	Poor solution.						
ISC	**XI 22 00 24 41**±1.2	**11.2N**±.11	**60.98W**±.097	**16**		**5**	**0-1**
TRN	XI 22 00 24 39.0	11.2N	61.0W	16			**¶97xi3762**
ISC	**XI 22 00 25 10**±1.6	**11.22N**±.095	**61.0W**±.10	**3**±27		**7**	**0-1**
TRN	XI 22 00 25 07.7	11.2N	61.0W	9	3.0D		**¶97xi3763**
NEIC	XI 22 00 25 09.6	11.22N	61.02W	5			
NEIC	Single network solution.						
ISC	**XI 24 21 02 04**±5.8	**11.1N**±.16	**62.3W**±.66	**73**		**6**	**1-2**
TRN	XI 24 21 02 05.0	11.1N	62.1W	73	3.0D		**¶97xi4387**
TRN	**XI 27 22 27 52.1**	**15.0N**	**60.4W**	**27**			**¶97xi4948**
TRN	MD2.5 (after FDF)						
TRN	**XI 28 08 40 40.6**	**14.1N**	**60.9W**	**15**			**¶97xi5040**
TRN	MD1.8 (after MVM)						
TRN	**XI 30 04 55 36.2**	**11.1N**	**62.3W**	**19**	**3.0D**		**¶97xi5367**
TRN	**XII 03 00 06 22.8**	**11.5N**	**62.0W**	**49**	**2.6D**		**¶97xii0331**
TRN	**XII 07 11 29 14.8**	**14.8N**	**61.0W**	**162**			**¶97xii1687**
TRN	MD2.7 (after FDF)						
ISC	**XII 08 19 21 00**±4.7	**11.2N**±.15	**62.1W**±.57	**61**		**4**	**1-1**
TRN	XII 08 19 21 00.2	11.3N	62.1W	61	2.5D		**¶97xii1996**
ISC	Poorly determined						
TRN	**XII 09 09 37 30.9**	**14.0N**	**60.4W**	**55**	**2.7D**		**¶97xii2143**
TRN	MD2.6 (after FDF)						
TRN	**XII 09 10 17 46.9**	**14.6N**	**60.1W**	**41**			**¶97xii2152**
TRN	MD2.6 (after FDF)						
TRN	**XII 11 19 55 14.9**	**14.8N**	**60.6W**	**117**			**¶97xii2633**
TRN	MD2.4 (after FDF)						
ISC	**XII 12 19 30 33**±6.4	**11.1N**±.18	**62.3W**±.42	**124**±58		**9**	**1-2**
TRN	XII 12 19 30 34.4	11.2N	62.4W	85	3.7D		**¶97xii2808**
NEIC	XII 12 19 30 35.0	11.19N	62.26W	100			
NEIC	Single network solution.						
TRN	**XII 13 18 03 27.1**	**13.9N**	**61.0W**	**10**	**2.8D**		**¶97xii2990**
TRN	**XII 13 19 49 21.2**	**14.5N**	**60.1W**	**9**	**3.4D**		**¶97xii3006**
TRN	MD3.2 (after FDF)						
TRN	**XII 13 23 17 01.5**	**14.1N**	**61.1W**	**20**			**¶97xii3036**
TRN	MD2.3 (after FDF)						
TRN	**XII 18 04 33 15.5**	**11.2N**	**62.2W**	**68**	**3.1D**		**¶97xii3708**
ISC	**XII 19 12 51 39**±5.2	**11.1N**±.21	**62.1W**±.65	**69**		**4**	**1-1**
TRN	XII 19 12 51 37.2	11.1N	62.3W	69	2.8D		**¶97xii3965**
ISC	Poorly determined						
TRN	**XII 19 17 18 23.4**	**13.9N**	**61.4W**	**20**			**¶97xii4000**
ISC	**XII 19 19 42 53**±1.8	**11.1N**±.16	**60.9W**±.20	**32**		**4**	**0-1**
TRN	XII 19 19 42 50.9	11.1N	60.8W	32	2.5D		**¶97xii4025**
NEIC	XII 19 19 42 52.0	11.09N	60.78W	33			
ISC	Poorly determined						
NEIC	Single network solution.						
TRN	**XII 20 09 43 01.2**	**11.2N**	**62.2W**	**80**	**2.5D**		**¶97xii4103**
ISC	**XII 21 13 48 18**±2.8	**13.17N**±.062	**59.2W**±.28	**16**	3.7b	**15**	**2-63**
TRN	XII 21 13 48 18.1	13.2N	59.3W	16	4.1D		**¶97xii4258**
NEIC	XII 21 13 48 19.1	13.17N	59.24W	33			
TRN	MD3.8 (after FDF)						
NEIC	MD3.8(FDF), Less reliable solution.						
ISC	**XII 24 09 54 50**±4.8	**11.2N**±.19	**62.1W**±.72	**100**		**4**	**1-1**
NEIC	XII 24 09 54 49.5	11.18N	62.14W	100			**¶97xii4738**
TRN	XII 24 09 54 49.6	11.2N	62.2W	91	3.1D		
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**XII 24 18 29 26**±3.7	**11.63N**±.098	**60.2W**±.44	**104**		**7**	**1-2**
TRN	XII 24 18 29 25.4	11.6N	60.3W	104	3.4D		**¶97xii4801**
NEIC	XII 24 18 29 25.9	11.64N	60.24W	100			
NEIC	Poor solution.						
TRN	**XII 25 00 08 41.7**	**11.3N**	**61.8W**	**5**	**2.3D**		**¶97xii4840**
ISC	**XII 25 18 27 48**±2.1	**11.2N**±.14	**62.0W**±.28	**100**		**6**	**1-1**
TRN	XII 25 18 27 47.3	11.3N	62.1W	105	2.7D		**¶97xii4970**
NEIC	XII 25 18 27 48.0	11.23N	62.01W	100			
NEIC	Poor solution.						
TRN	**XII 28 09 12 12.5**	**11.4N**	**62.1W**	**78**	**2.6D**		**¶97xii5429**
TRN	**XII 29 04 34 59.1**	**11.2N**	**62.1W**	**5**	**2.7D**		**¶97xii5547**
TRN	**XII 30 17 22 06.4**	**11.3N**	**62.0W**	**126**	**2.7D**		**¶97xii5764**
TRN	**XII 31 05 10 45.7**	**11.7N**	**61.9W**	**93**	**3.1D**		**¶97xii5838**
TRN	**XII 31 11 02 25.4**	**14.1N**	**61.0W**	**20**			**¶97xii5883**
TRN	MD2.0 (after MVM)						

(96) Near north coast of Colombia.

ISC	**VIII 23 14 47 09.5**±.97	**12.8N**±.14	**72.7W**±.28	**33**	**4.0b**,3.5s	**8**	**25-153**
EIDC	VIII 23 14 47 06.1	12.8N	72.6W	0	4.2b,3.4s		**¶97viii3416**
ISC	**XI 14 11 42 44**±1.0	**11.9N**±.19	**73.3W**±.12	**33**	**3.9b**	**11**	**4-152**
EIDC	XI 14 11 42 46.0	11.9N	73.3W	32	3.8b		**¶97xi2282**
ISC	**XI 18 11 36 52.9**±.73	**12.42N**±.087	**72.38W**±.094	**33**	**3.8b**	**18**	**7-153**
EIDC	XI 18 11 36 49.5	12.4N	72.4W	0	3.7b,3.7s		**¶97xi2953**
NEIC	XI 18 11 36 52.7	12.34N	72.48W	33	4.2b		
NEIC	Less reliable solution.						

(97) Near coast of Venezuela.

ISC	**VII 09 19 24 10.3**±.13	**10.50N**±.025	**63.55W**±.020	**3**	**6.0b,6.8s**	**648**	**2-168**
TRN	VII 09 19 24 06.2	10.4N	63.9W	3			**¶97vii1382**
EIDC	VII 09 19 24 10.3	10.5N	63.5W	0	5.3b,6.9s		
MOS	VII 09 19 24 11.0	10.6N	63.5W	7	6.5b,6.7s		
BJI	VII 09 19 24 12.1	10.59N	63.44W	17	7.4s		
NEIC	VII 09 19 24 13.1	10.60N	63.49W	20	6.2b,6.8s		
HRVD	VII 09 19 24 23.4±.1	10.70N±.01	63.63W±.01	15			

TRN MB6.2. At least 81 people killed, 522 injured, 3000 homeless, extensive damage and landslides in northeast Venezuela and neighbouring islands. Felt I=V MM on Trinidad. Also felt on Tobago

NEIC Mw7.0(HRV), Me6.5(GS). Casualties, landslide/avalanche observed.

NEIC Radiated energy from the P−wave first−motion solution: $1.1\pm0.2\times10^{14}$Nm/26

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S175°,δ88°,λ−45°. NP2:ϕ_S267°,δ45°, λ−177°. Principal axes: T Plg28°,Azm230°; P Plg32°,Azm121°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s57, scale 10^{19}Nm; M_{rr}−0.09; $M_{\theta\theta}$0.26; $M_{\phi\phi}$−0.17; $M_{r\theta}$0.31; $M_{r\theta}$0.68; $M_{\theta\phi}$−2.47. Depth 25km; Principal axes: T 2.55,Plg5°,Azm223°; N 0.09,Plg73°,

Azm331°; P −2.63,Plg16°,Azm132°. Best double couple: $M_0$2.6×10^{19}Nm; NP1:ϕ_S268°,δ75°, λ−173°. NP2:ϕ_S177°,δ83°,λ−15°.

NEIC Mw 6.9 (GS). Ms 7.0 (BRK). At least 81 people killed, 522 injured, 3,000 homeless, extensive damage and landslides in the Cariaco-Cumana area. Several people injured in the Barcelona-Puerto La Cruz area. Some damage on Isla de Margarita. Power, telephone and water services disrupted on Isla Coche and Isla de Margarita. Felt in much of north eastern Venezuela and as far west as Maracaibo. Felt I=V MM on Trinidad. Also felt on Tobago. Mo=6.0×10^{19}Nm (PPT).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s71,c166; Mantle waves: s71,c177; Half duration: 7s4. Moment tensor: Scale 10^{19}Nm; M_{rr}−0.25±.01; $M_{\theta\theta}$0.57±.01; $M_{\phi\phi}$−0.32±.01; $M_{r\theta}$−0.12±.05; $M_{r\phi}$1.43±.06; $M_{\theta\phi}$−2.69±.01. Principal Axes: T 3.17,Plg17°,Azm223°; N −0.16,Plg62°,Azm349°; P −3.01,Plg21°,Azm126°. Best double couple: $M_0$3.1×10^{19}Nm, NP1:ϕ_S266°,δ62°,λ−177°. NP2:ϕ_S174°,δ87°,λ−28°.

ISC	**VII**	**09 19 26 22.3**±.66	**10.6N**±.14	**62.7W**±.11	**10**	**5.1b**	**25**	**42-146**
NEIC	VII	09 19 26 22.0	10.65N	62.69W	10	5.3b		¶97vii1383
EIDC	VII	09 19 26 22.1	10.6N	62.7W	0	5.0b		
NEIC	Less reliable solution.							
ISC	**VII**	**09 20 04 08**±1.9	**10.8N**±.12	**63.4W**±.13	**51**±16	**4.0b**	**22**	**2-161**
EIDC	VII	09 20 04 00.6	10.3N	63.6W	0	4.0b		¶97vii1389
NEIC	VII	09 20 04 02.2	10.65N	63.57W	10	4.1b		
TRN	VII	09 20 04 03.8	10.7N	63.4W	3			
NEIC	Less reliable solution.							
TRN	MB4.1							
ISC	**VII**	**09 20 06 18.4**±.71	**10.56N**±.044	**63.50W**±.038	**37**±5.5	**4.9b**	**223**	**2-160**
TRN	VII	09 20 06 13.3	10.5N	63.8W	5			¶97vii1390
BJI	VII	09 20 06 13.8	10.57N	63.78W	20			
NEIC	VII	09 20 06 14.1	10.50N	63.53W	10	5.2b		
EIDC	VII	09 20 06 21.2	10.5N	63.5W	48	4.5b		
TRN	MB5.2							
ISC	**VII**	**09 20 35 18**±2.1	**10.9N**±.14	**63.0W**±.17	**3**	4.1b	**8**	**1-63**
TRN	VII	09 20 35 15.8	10.8N	63.2W	3	3.4D		¶97vii1393
ISC	**VII**	**09 20 53 45**±2.1	**10.53N**±.060	**63.46W**±.063	**18**±14	**4.2b**	**67**	**2-159**
EIDC	VII	09 20 53 43.4	10.6N	63.3W	0	4.2b		¶97vii1394
TRN	VII	09 20 53 43.5	10.6N	63.6W	5			
NEIC	VII	09 20 53 43.6	10.49N	63.50W	10	4.6b		
TRN	MB4.6							
ISC	**VII**	**09 20 55 56**±2.9	**10.4N**±.31	**63.5W**±.17	**57**±20	**3.9b**	**14**	**2-146**
NEIC	VII	09 20 55 49.3	10.36N	63.47W	10			¶97vii1396
EIDC	VII	09 20 55 49.4	10.3N	63.5W	0	3.9b		
NEIC	Single network solution.							
ISC	**VII**	**09 22 21 35**±1.0	**10.65N**±.063	**63.29W**±.064	**51**±8.6	**4.3b**	**58**	**2-161**
NEIC	VII	09 22 21 29.2	10.58N	63.45W	10	4.7b		¶97vii1402
EIDC	VII	09 22 21 29.4	10.5N	63.3W	0	4.3b		
TRN	VII	09 22 21 33.5	10.7N	63.5W	35			
TRN	MB4.7							
ISC	**VII**	**10 01 01 59.1**±.71	**11.0N**±.11	**63.60W**±.072	**10**	**3.8b**	**15**	**2-81**
TRN	VII	10 01 01 54.5	10.7N	63.8W	4			¶97vii1424
NEIC	VII	10 01 01 58.9	11.00N	63.59W	10	4.3b		
EIDC	VII	10 01 02 26.6	10.8N	63.6W	269	3.2b		
TRN	MB4.3							
NEIC	Less reliable solution.							
TRN	**VII**	**10 07 55 39.4**	**10.8N**	**63.3W**	**3**	**3.6D**		¶97vii1471
TRN	**VII**	**10 10 31 18.8**	**10.9N**	**63.2W**	**3**	**3.5D**		¶97vii1498
ISC	**VII**	**12 00 47 18.0**±.83	**10.70N**±.063	**63.17W**±.056	**52**±8.1	**4.2b,3.6s**	**51**	**1-146**
NEIC	VII	12 00 47 12.5	10.63N	63.32W	10	4.6b		¶97vii1749
TRN	VII	12 00 47 14.9	10.7N	63.2W	5			
EIDC	VII	12 00 47 26.2	10.6N	63.1W	117	3.8b,3.5s		
TRN	MB4.6							
ISC	**VII**	**12 01 23 40**±1.2	**10.91N**±.082	**63.2W**±.12	**56**±18	**3.8b,3.6s**	**22**	**1-78**
NEIC	VII	12 01 23 34.5	10.77N	63.41W	10	4.1b		¶97vii1757
TRN	VII	12 01 23 38.0	10.8N	63.4W	62			
EIDC	VII	12 01 23 42.8	11.7N	64.0W	0	3.8b,3.7s		
TRN	MB4.1							
ISC	**VII**	**13 00 42 12**±1.1	**10.60N**±.073	**63.48W**±.079	**51**±11	**3.7b,3.7s**	**27**	**2-94**
NEIC	VII	13 00 42 06.5	10.40N	63.70W	10	4.3b		¶97vii1896
EIDC	VII	13 00 42 06.5	10.4N	63.5W	0	3.8b,3.7s		
TRN	VII	13 00 42 08.3	10.6N	63.6W	5			
TRN	MB4.3							
TRN	**VII**	**13 05 36 56.1**	**11.0N**	**63.2W**	**5**	**3.5D**		¶97vii1929
ISC	**VII**	**14 21 16 11.1**±.64	**10.5N**±.12	**63.63W**±.077	**10**	**3.8b**	**14**	**2-78**
EIDC	VII	14 21 16 09.7	10.7N	63.0W	0	3.8b,4.7L		¶97vii2206
NEIC	VII	14 21 16 11.1	10.48N	63.64W	10	3.7b		
TRN	VII	14 21 16 13.0	11.1N	63.4W	3	3.7D		
NEIC	Less reliable solution.							
ISC	**VII**	**16 11 45 33**±8.2	**11.0N**±.28	**62.4W**±.94	**100**		**5**	**1-1**
TRN	VII	16 11 45 33.7	11.0N	62.3W	100	3.2D		¶97vii2440
ISC	**VII**	**17 02 44 06**±5.6	**10.9N**±.26	**62.5W**±.43	**3**		**8**	**1-4**
TRN	VII	17 02 44 04.3	10.7N	62.7W	3	3.7D		¶97vii2536
ISC	**VII**	**30 14 06 39**±1.7	**10.72N**±.052	**63.42W**±.050	**30**±14	**4.0b**	**36**	**2-146**
TRN	VII	30 14 06 37.0	10.6N	63.4W	10	4.3D		¶97vii4588
NEIC	VII	30 14 06 38.0	10.70N	63.42W	24	4.3b		
EIDC	VII	30 14 06 42.3	10.9N	63.4W	43	3.8b,4.6L		
TRN	Felt at Cariaco and environs. Seven buildings destroyed at Carupano							
NEIC	Damage.							
NEIC	Seven buildings destroyed at Carupano. Felt at Cariaco, Casanay, Chiguana, El Pilar, Rio Caribe and Yaguaraparo.							
ISC	**VII**	**31 15 56 11**±4.7	**11.0N**±.19	**62.0W**±.55	**46**		**5**	**0-1**
TRN	VII	31 15 56 08.6	11.0N	62.3W	46	2.9D		¶97vii4755
ISC	Poorly determined							
ISC	**VIII**	**12 03 53 29**±2.5	**10.48N**±.070	**63.47W**±.068	**31**±19	**4.0b,3.7s**	**36**	**2-81**
TRN	VIII	12 03 53 21.8	10.3N	63.9W	18	4.1D		¶97viii1676
NEIC	VIII	12 03 53 25.3	10.31N	63.60W	10	4.4b		
EIDC	VIII	12 03 53 47.9	10.3N	63.6W	195	3.5b,3.7s		
NEIC	Less reliable solution.							
ISC	**VIII**	**14 14 04 35.8**±.74	**10.75N**±.082	**63.21W**±.075	**58**	**3.7b**	**15**	**1-78**
NEIC	VIII	14 14 04 30.0	10.68N	63.48W	5			¶97viii2075
EIDC	VIII	14 14 04 32.1	10.6N	63.9W	0	3.8b		
TRN	VIII	14 14 04 35.9	10.7N	63.2W	58	3.8D		
NEIC	Less reliable solution.							
ISC	**VIII**	**19 00 29 03.3**±.94	**10.8N**±.14	**63.28W**±.082	**10**	**3.6b**	**13**	**2-81**
TRN	VIII	19 00 28 56.4	10.3N	63.6W	13	3.7D		¶97viii2736
EIDC	VIII	19 00 29 03.3	11.2N	62.9W	0	3.5b		
NEIC	VIII	19 00 29 04.8	11.52N	62.91W	10	4.3b		
NEIC	Poor solution.							
ISC	**VIII**	**28 14 12 24.8**±.66	**10.7N**±.11	**63.90W**±.061	**5**	**3.9b**	**19**	**2-81**
TRN	VIII	28 14 12 20.6	10.5N	64.2W	7	4.0D		¶97viii4141
NEIC	VIII	28 14 12 24.4	10.69N	63.92W	5	4.0b		
EIDC	VIII	28 14 12 26.1	10.7N	64.1W	0	3.9b		
NEIC	Less reliable solution.							
NEIC	Felt along the eastern coast of Venezuela.							
ISC	**VIII**	**28 22 20 06**±6.8	**10.9N**±.26	**62.5W**±.52	**1**		**5**	**1-1**
TRN	VIII	28 22 20 00.3	10.8N	62.8W	1	3.0D		¶97viii4191
ISC	**VIII**	**29 08 00 30**±6.5	**10.9N**±.25	**62.4W**±.49	**3**		**5**	**1-1**
TRN	VIII	29 08 00 24.3	10.8N	62.8W	3	3.2D		¶97viii4249
ISC	**IX**	**02 14 50 01**±5.9	**10.9N**±.24	**62.1W**±.69	**67**		**5**	**0-1**
TRN	IX	02 14 49 57.8	10.8N	62.4W	67	2.9D		¶97ix0286
ISC	Poorly determined							
ISC	**IX**	**10 23 03 10**±5.7	**10.8N**±.12	**63.7W**±.15	**18**±44	**3.7b**	**12**	**2-74**
TRN	IX	10 23 03 01.4	10.3N	64.4W	35	4.1D		¶97ix1593
EIDC	IX	10 23 03 08.8	10.7N	63.6W	0	3.8b		
ISC	**IX**	**22 08 59 15.6**±.51	**10.35N**±.043	**62.31W**±.036	**43**±5.2	**4.2b,4.0s**	**71**	**1-161**
TRN	IX	22 08 59 13.0	10.3N	62.3W	5	4.3D		¶97ix3252
NEIC	IX	22 08 59 14.5	10.32N	62.35W	33	4.4b		
EIDC	IX	22 08 59 24.4	10.2N	62.5W	109	3.8b,4.0s		
ISC	**IX**	**23 14 51 08**±4.8	**10.5N**±.27	**62.0W**±.24	**3**		**6**	**0-2**
TRN	IX	23 14 51 04.6	10.4N	62.2W	3	3.1D		¶97ix3437
ISC	**IX**	**25 08 19 31**±5.3	**10.4N**±.29	**62.1W**±.25	**3**		**5**	**0-2**
TRN	IX	25 08 19 29.6	10.3N	62.1W	3	3.5D		¶97ix3707
ISC	**X**	**04 07 10 05.0**±.63	**10.5N**±.14	**62.95W**±.049	**5**		**11**	**1-5**
TRN	X	04 07 10 05.0	10.4N	62.9W	5	3.7D		¶97x0602
TRN	**X**	**04 18 35 04.6**	**9.9N**	**61.4W**	**65**	**2.8D**		¶97x0702
ISC	**X**	**05 07 51 03**±2.3	**10.5N**±.17	**64.8W**±.19	**5**		**4**	**1-2**
TRN	X	05 07 51 02.4	10.5N	64.7W	5			¶97x0826
ISC	Poorly determined							
ISC	**X**	**06 15 28 39**±7.1	**10.9N**±.97	**62.1W**±.54	**98**		**4**	**0-1**
TRN	X	06 15 28 39.2	11.0N	62.1W	98	2.6D		¶97x1069
ISC	Poorly determined							
ISC	**X**	**07 08 19 11**±12	**11.0N**±.41	**62.3W**±.95	**73**		**5**	**1-1**
TRN	X	07 08 19 11.0	11.1N	62.2W	73	2.7D		¶97x1213
ISC	**X**	**12 11 25 06**±7.1	**10.7N**±.31	**62.1W**±.62	**33**		**4**	**0-1**
TRN	X	12 11 25 05.1	10.7N	62.2W	33	2.9D		¶97x2032
ISC	Poorly determined							
TRN	**X**	**15 14 11 46.9**	**10.3N**	**62.3W**	**74**	**2.8D**		¶97x2651
ISC	**XI**	**04 09 53 19**±5.6	**10.8N**±.29	**62.3W**±.38	**90**±46		**10**	**1-4**
NEIC	XI	04 09 53 17.4	10.78N	62.34W	100			¶97xi0610
TRN	XI	04 09 53 17.9	10.7N	62.4W	88	3.9D		
NEIC	Poor solution.							
ISC	**XI**	**04 13 15 25**±7.6	**10.6N**±.27	**62.8W**±.53	**19**		**7**	**1-2**
TRN	XI	04 13 15 27.4	10.7N	62.6W	19	3.3D		¶97xi0644
NEIC	XI	04 13 15 29.2	10.75N	62.53W	33			
NEIC	Poor solution.							
ISC	**XI**	**10 02 07 33.1**±.69	**10.52N**±.045	**62.85W**±.041	**45**±6.1	**4.6b,3.9s**	**100**	**1-161**
NEIC	XI	10 02 07 28.2	10.43N	62.95W	10	4.8b		¶97xi1545
TRN	XI	10 02 07 31.8	10.6N	62.7W	3	4.6D		
EIDC	XI	10 02 07 42.2	10.5N	62.9W	115	4.1b,3.9s		
TRN	**XI**	**10 02 39 09.9**	**11.0N**	**62.7W**	**4**	**3.2D**		¶97xi1547
TRN	**XI**	**10 05 17 11.9**	**10.9N**	**62.7W**	**4**	**3.0D**		¶97xi1563
ISC	**XI**	**14 10 53 18**±1.1	**10.4N**±.23	**62.78W**±.094	**6**		**7**	**1-3**
TRN	XI	14 10 53 17.4	10.4N	62.8W	6	3.3D		¶97xi2279
ISC	**XI**	**15 02 34 35.5**±.45	**10.49N**±.039	**62.85W**±.031	**52**±4.1	**4.5b,3.7s**	**110**	**1-149**
TRN	XI	15 02 34 32.6	10.5N	62.8W	3	4.6D		¶97xi2402
NEIC	XI	15 02 34 34.8	10.46N	62.88W	48	4.7b,4.1s		
EIDC	XI	15 02 34 47.0	10.4N	62.9W	145	3.9b,3.6s		
TRN	Felt in Sucre, Venezuela. Also felt in Sangre Grande, Trinidad							
ISC	**XI**	**16 04 58 23.9**±.44	**10.46N**±.056	**62.24W**±.040	**10**	**4.0b**	**36**	**1-146**
TRN	XI	16 04 58 23.2	10.4N	62.2W	4	4.2D		¶97xi2599
EIDC	XI	16 04 58 23.9	10.6N	62.4W	0	3.9b,3.4s		
NEIC	XI	16 04 58 24.7	10.49N	62.18W	10	4.2b		
ISC	**XI**	**16 20 17 24**±5.4	**10.7N**±.25	**62.3W**±.35	**3**		**6**	**1-2**
TRN	XI	16 20 17 19.2	10.5N	62.6W	3	3.6D		¶97xi2691
ISC	**XI**	**18 14 54 20.3**±.97	**10.4N**±.13	**62.71W**±.058	**3**		**10**	**1-4**
TRN	XI	18 14 54 20.2	10.4N	62.6W	3	3.9D		¶97xi2992
ISC	**XI**	**23 20 34 28**±1.6	**10.60N**±.057	**63.68W**±.042	**18**±14	**4.1b**	**39**	**2-160**
NEIC	XI	23 20 34 27.3	10.59N	63.67W	10	4.0b		¶97xi4191
TRN	XI	23 20 34 30.1	10.6N	63.7W	65	4.5D		
EIDC	XI	23 20 34 38.5	10.4N	63.7W	93	3.8b		
ISC	**XII**	**03 22 33 32**±6.2	**11.0N**±.23	**62.2W**±.66	**64**		**5**	**1-1**
TRN	XII	03 22 33 28.0	10.7N	62.6W	64	3.0D		¶97xii0512
NEIC	XII	03 22 33 31.4	10.94N	62.26W	70			
NEIC	Poor solution.							
ISC	**XII**	**08 19 43 16**±3.3	**10.6N**±.17	**62.6W**±.48	**122**±35	3.3b	**10**	**1-64**
TRN	XII	08 19 43 20.3	10.7N	62.5W	87	3.7D		¶97xii2004
ISC	**XII**	**10 02 31 27**±4.6	**10.9N**±.18	**62.3W**±.46	**84**		**6**	**1-2**
TRN	XII	10 02 31 24.4	10.9N	62.5W	84	2.9D		¶97xii2281
NEIC	XII	10 02 31 26.8	10.93N	62.29W	80			
NEIC	Poor solution.							
ISC	**XII**	**11 13 32 03**±5.1	**10.9N**±.22	**62.1W**±.61	**68**		**5**	**0-1**
TRN	XII	11 13 32 00.9	10.8N	62.4W	68	3.1D		¶97xii2576
NEIC	XII	11 13 32 02.8	10.91N	62.15W	70			
NEIC	Poor solution.							
TRN	**XII**	**12 13 40 59.6**	**9.9N**	**62.0W**	**21**	**2.7D**		¶97xii2755
ISC	**XII**	**14 07 06 45.0**±.57	**10.38N**±.054	**64.78W**±.032	**37**±6.5	**4.5b,3.8s**	**71**	**2-158**
EIDC	XII	14 07 06 41.9±.53	10.5N	64.7W	0	4.5b,3.9s		¶97xii3107
TRN	XII	14 07 06 42.5	10.5N	64.7W	3	4.8D		
NEIC	XII	14 07 06 44.5	10.41N	64.78W	33	4.8b,3.8s		
EIDC	Error ellipse is semi−major=19.3km semi−minor=13.1km azimuth=76							
ISC	**XII**	**16 09 48 53**±4.9	**10.8N**±.23	**62.3W**±.36	**10**		**8**	**1-4**
NEIC	XII	16 09 48 54.9	10.84N	62.24W	10			¶97xii3430
TRN	XII	16 09 48 55.7	10.8N	62.2W	14	3.2D		
NEIC	Poor solution.							
ISC	**XII**	**18 04 58 59**±4.1	**10.9N**±.16	**62.1W**±.40	**57**		**8**	**0-3**
TRN	XII	18 04 58 56.1	10.7N	62.4W	57	3.3D		¶97xii3710
ISC	**XII**	**20 12 54 24.7**±.38	**10.86N**±.051	**62.58W**±.042	**111**±4.3	**4.1b**	**46**	**1-146**
TRN	XII	20 12 54 25.0	10.9N	62.6W	20	4.1D		¶97xii4115
NEIC	XII	20 12 54 25.2	10.88N	62.55W	119	4.0b		
EIDC	XII	20 12 54 27.1±.84	10.9N	62.8W	119±5.4	3.8b		
EIDC	Error ellipse is semi−major=24.2km semi−minor=16.1km azimuth=32							
ISC	**XII**	**20 16 48 03.6**±.68	**10.68N**±.076	**63.47W**±.054	**34**±8.7	**4.1b**	**24**	**2-146**
TRN	XII	20 16 48 00.4	10.6N	63.4W	0	4.2D		¶97xii4139
EIDC	XII	20 16 48 02.1±2.11	11.1N	63.2W	0	4.0b,3.9s		
NEIC	XII	20 16 48 03.5	10.67N	63.44W	33	4.3b		
EIDC	Error ellipse is semi−major=76.9km semi−minor=20.7km azimuth=22							
NEIC	Less reliable solution.							
ISC	**XII**	**30 21 30 42**±7.7	**10.9N**±.25	**62.2W**±.51	**76**±62		**9**	**1-3**
TRN	XII	30 21 30 38.3	10.9N	62.6W	77	3.4D		¶97xii5791

(98) Trinidad.

ISC	**VII**	**20 06 06 58**±1.2	**10.61N**±.097	**61.44W**±.085	**3**		**4**	**0-0**
TRN	VII	20 06 06 57.9	10.6N	61.5W	3	3.1D		¶97vii3031
ISC	Poorly determined							

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**20 07 11 21.5**±.91	**10.58N**±.066	**61.45W**±.078	**5**		**7**	**0-3**
NEIC	VII	20 07 11 21.2	10.60N	61.44W	5			¶97vii3038
TRN	VII	20 07 11 21.2	10.6N	61.4W	2	3.6D		
NEIC	Single network solution.							
TRN	Felt widely north Trinidad I=III MM							
TRN	**VIII**	**17 07 48 21.4**	**10.4N**	**61.6W**	**25**	**2.4D**		**¶97viii2508**
ISC	**IX**	**03 03 41 03**±1.8	**10.90N**±.099	**61.8W**±.21	**42**		**6**	**0-1**
NEIC	IX	03 03 41 02.3	10.90N	61.85W	33			¶97ix0372
TRN	IX	03 03 41 02.6	10.8N	61.8W	42	2.8D		
NEIC	Single network solution.							
ISC	**IX**	**05 17 13 26**±5.2	**10.5N**±.27	**61.9W**±.26	**10**		**5**	**0-2**
TRN	IX	05 17 13 22.8	10.4N	62.1W	5	3.2D		¶97ix0775
NEIC	IX	05 17 13 25.8	10.48N	61.95W	10			
NEIC	Poor solution.							
ISC	**IX**	**15 23 32 23.2**±.94	**10.7N**±.11	**61.68W**±.059	**9**±7.3	3.4b	**12**	**0-145**
TRN	IX	15 23 32 16.1	10.3N	62.0W	5	3.6D		¶97ix2295
NEIC	IX	15 23 32 23.2	10.68N	61.68W	10			
EIDC	IX	15 23 32 25.4	11.1N	61.9W	0	3.4b,4.6L		
ISC	**IX**	**26 00 54 09**±1.4	**10.9N**±.11	**61.17W**±.099	**10**		**4**	**0-1**
TRN	IX	26 00 54 08.1	10.8N	61.2W	10	2.3D		¶97ix3818
ISC	Poorly determined							
ISC	**IX**	**27 11 17 17**±17	**10.9N**±.71	**61.8W**±.61	**3**		**4**	**0-1**
TRN	IX	27 11 17 07.9	11.3N	62.1W	3	3.0D		¶97ix4341
ISC	Poorly determined							
TRN	**IX**	**30 14 18 42.5**	**10.7N**	**61.4W**	**3**	**1.6D**		**¶97ix5246**
TRN	**X**	**05 18 25 02.8**	**10.2N**	**61.8W**	**39**	**2.5D**		**¶97x0905**
ISC	**X**	**16 08 27 27.7**±.68	**10.78N**±.053	**61.9W**±.10	**66**±7.4	**4.1b**	**32**	**0-145**
NEIC	X	16 08 27 27.7	10.79N	61.92W	67	4.3b		¶97x2811
TRN	X	16 08 27 29.3	10.8N	61.8W	51	4.2D		
EIDC	X	16 08 27 29.9	10.9N	62.1W	65	3.8b,3.3s		
TRN	Felt I=IV MM in the Port of Spain area. I=III in St. Augustine and Maracas, and I=II in Tacarigua							
ISC	**X**	**31 05 57 54**±1.6	**10.5N**±.12	**60.7W**±.11	**67**±9.9	**3.9b**	**24**	**1-145**
EIDC	X	31 05 57 50.0	10.6N	60.4W	18	3.9b		¶97x5140
TRN	X	31 05 57 50.1	10.3N	60.3W	58	4.1D		
TRN	MD4.3 (after PAG), MD4.8 (after FDF)							
TRN	**XI**	**06 01 27 09.0**	**10.6N**	**61.7W**	**39**	**2.7D**		**¶97xi0898**
ISC	**XI**	**06 05 01 04**±6.3	**10.4N**±.49	**60.5W**±.56	**100**		**5**	**1-1**
NEIC	XI	06 05 01 03.8	10.37N	60.46W	100			¶97xi0926
TRN	XI	06 05 01 03.9	10.4N	60.5W	102	2.8D		
NEIC	Poor solution.							
ISC	**XI**	**10 17 56 56**±4.4	**10.4N**±.30	**61.2W**±.14	**34**±40		**6**	**0-2**
TRN	XI	10 17 56 54.9	10.3N	61.2W	43	3.0D		¶97xi1654
NEIC	XI	10 17 56 55.8	10.39N	61.20W	33			
NEIC	Single network solution.							
TRN	**XI**	**20 21 50 38.2**	**11.0N**	**61.8W**	**18**	**2.6D**		**¶97xi3538**
ISC	**XI**	**25 18 11 46**±1.1	**10.7N**±.15	**61.4W**±.11	**28**±16		**7**	**0-2**
NEIC	XI	25 18 11 46.1	10.63N	61.42W	33			¶97xi4557
TRN	XI	25 18 11 46.7	10.7N	61.4W	27	3.2D		
NEIC	Single network solution.							
TRN	Felt in Tunapuna I=III MM and St. Augustine I=II							
ISC	**XI**	**29 04 25 50**±9.5	**10.6N**±.20	**61.9W**±.63	**15**		**5**	**0-1**
TRN	XI	29 04 25 50.2	10.6N	61.8W	15	3.1D		¶97xi5196
ISC	**XII**	**02 23 35 25**±1.9	**10.5N**±.21	**61.2W**±.11	**30**±15		**7**	**0-2**
TRN	XII	02 23 35 23.7	10.4N	61.1W	39	2.7D		¶97xii0328
NEIC	XII	02 23 35 24.4	10.42N	61.15W	33			
NEIC	Single network solution.							
TRN	**XII**	**03 01 38 33.0**	**10.5N**	**61.7W**	**24**	**2.3D**		**¶97xii0348**
TRN	**XII**	**04 10 08 19.1**	**10.7N**	**61.4W**	**31**	**1.8D**		**¶97xii0595**
ISC	**XII**	**05 21 05 08**±5.4	**10.6N**±.28	**60.8W**±.38	**36**±42		**6**	**0-2**
TRN	XII	05 21 04 59.4	10.2N	60.3W	26	3.3D		¶97xii1093
ISC	**XII**	**11 04 28 29.1**±.94	**10.61N**±.095	**61.94W**±.081	**53**±24		**14**	**0-5**
TRN	XII	11 04 28 29.7	10.6N	61.9W	46	3.6D		¶97xii2490
NEIC	XII	11 04 28 30.9	10.68N	61.83W	40			
TRN	Felt I=III MM Santa Cruz, Trinidad.							
NEIC	Single network solution.							
ISC	**XII**	**11 04 34 12**±2.4	**10.7N**±.17	**61.8W**±.24	**31**±13		**7**	**0-3**
NEIC	XII	11 04 34 11.2	10.66N	61.80W	33			¶97xii2491
TRN	XII	11 04 34 11.6	10.7N	61.8W	31	3.2D		
NEIC	Less reliable solution.							
ISC	**XII**	**15 01 25 17**±2.4	**11.0N**±.12	**60.7W**±.27	**27**±10		**9**	**0-2**
TRN	XII	15 01 25 13.9	10.9N	60.5W	27	3.3D		¶97xii3218
NEIC	XII	15 01 25 16.2	10.93N	60.63W	33			
NEIC	Single network solution.							
ISC	**XII**	**15 23 28 03**±2.3	**10.9N**±.22	**61.8W**±.46	**99**		**4**	**0-1**
TRN	XII	15 23 28 01.9	10.9N	62.0W	99	2.9D		¶97xii3356
ISC	Poorly determined							
TRN	**XII**	**17 21 41 48.5**	**11.0N**	**62.0W**	**60**	**2.9D**		**¶97xii3664**
NEIC	XII	17 21 41 48.8	10.97N	61.91W	60			
NEIC	Poor solution.							
TRN	**XII**	**25 14 08 03.1**	**10.1N**	**60.4W**	**97**	**3.5D**		**¶97xii4942**

(99) Northern Colombia.

ISC	**VII**	**06 03 59 41**±1.6	**7.5N**±.11	**74.9W**±.18	**87**±17	**3.4b**	**16**	**2-153**
NEIC	VII	06 03 59 38.1	7.51N	75.20W	59	4.4b		¶97vii0836
EIDC	VII	06 03 59 39.9	7.6N	75.2W	59	3.2b		
NEIC	Less reliable solution.							
ISC	**VII**	**07 00 17 26.6**±.62	**6.73N**±.059	**72.98W**±.057	**184**±8.0	**4.4b**	**80**	**1-154**
BJI	VII	07 00 17 24.6	6.80N	72.90W	160			¶97vii0958
NEIC	VII	07 00 17 24.6	6.83N	72.88W	160	4.6b		
EIDC	VII	07 00 17 26.5	6.8N	73.0W	166	3.9b		
ISC	**VII**	**07 02 47 27**±1.6	**7.06N**±.090	**73.2W**±.37	**150**	**3.7b**	**11**	**2-150**
NEIC	VII	07 02 47 26.8	7.04N	73.19W	150	3.3b		¶97vii0979
EIDC	VII	07 02 47 29.1	6.7N	73.2W	172	3.5b		
NEIC	Less reliable solution.							
ISC	**VII**	**16 04 27 13**±1.4	**6.8N**±.12	**73.0W**±.16	**170**±15	**3.8b**	**26**	**2-154**
NEIC	VII	16 04 27 13.5	6.79N	73.05W	175	4.2b		¶97vii2387
EIDC	VII	16 04 27 14.8	6.8N	73.1W	172	3.4b		
NEIC	Less reliable solution.							
ISC	**VII**	**24 07 24 38**±1.4	**6.8N**±.11	**73.0W**±.16	**163**±14	**3.9b**	**30**	**2-154**
NEIC	VII	24 07 24 37.9	6.82N	73.00W	164	4.1b		¶97vii3641
EIDC	VII	24 07 24 38.5	6.8N	73.1W	154	3.7b		
NEIC	Less reliable solution.							
ISC	**VII**	**26 10 41 54.8**±.73	**6.84N**±.079	**73.19W**±.075	**168**±8.7	**4.2b**	**57**	**1-154**
NEIC	VII	26 10 41 53.2	6.97N	73.03W	150	4.3b		¶97vii3954
BJI	VII	26 10 41 56.2	6.90N	73.00W	150			
EIDC	VII	26 10 41 56.3	6.7N	73.2W	171	3.9b		
ISC	**VIII**	**08 18 00 49**±1.4	**6.8N**±.12	**72.9W**±.14	**168**±16	**3.8b**	**28**	**2-154**
NEIC	VIII	08 18 00 49.6	6.77N	73.02W	171	4.2b		¶97viii1143
EIDC	VIII	08 18 00 50.9	6.8N	73.1W	165	3.7b		
NEIC	Less reliable solution.							
ISC	**VIII**	**20 12 26 35**±1.6	**6.9N**±.15	**72.9W**±.17	**163**±19	**3.7b**	**20**	**2-154**
NEIC	VIII	20 12 26 33.9	7.00N	72.81W	150	4.0b		¶97viii2960
EIDC	VIII	20 12 26 37.3	6.9N	72.9W	168	3.5b		
NEIC	Less reliable solution.							
EIDC	**IX**	**01 07 10 59.4**	**8.4N**	**74.2W**	**0**	**3.6b**		**¶97ix0067**
ISC	**IX**	**10 07 40 22**±2.0	**8.0N**±.14	**73.9W**±.17	**49**±25	**3.9b**	**15**	**1-149**
EIDC	IX	10 07 41 10.8	8.0N	74.5W	578	2.8b		¶97ix1491
ISC	**IX**	**11 00 29 52**±1.3	**6.0N**±.35	**72.2W**±.62	**33**	**3.9b**	**7**	**35-151**
EIDC	IX	11 00 29 49.8	6.2N	72.0W	0	3.8b		¶97ix1602
ISC	**IX**	**13 19 16 56**±1.1	**6.9N**±.14	**73.0W**±.24	**155**±11	**4.0b**	**21**	**0-154**
EIDC	IX	13 19 17 46.0	8.0N	74.2W	595	3.3b		¶97ix2021
ISC	**IX**	**16 12 01 04**±2.7	**7.2N**±.13	**76.8W**±.21	**54**±25	**3.9b**	**12**	**3-147**
EIDC	IX	16 12 00 57.7	7.1N	77.2W	0	3.9b,4.8L		¶97ix2380
NEIC	IX	16 12 01 01.3	7.22N	77.05W	33			
NEIC	Less reliable solution.							
ISC	**X**	**01 22 35 22**±3.1	**7.1N**±.18	**72.8W**±.25	**124**±33	**4.0b**	**21**	**3-153**
EIDC	X	01 22 35 06.0	6.3N	73.0W	0	4.2b		¶97x0168
NEIC	X	01 22 35 24.6	7.04N	73.00W	150	4.3b		
NEIC	Less reliable solution.							
ISC	**X**	**10 12 53 10.2**±.99	**7.1N**±.14	**72.7W**±.12	**100**	**3.8b**	**17**	**4-151**
NEIC	X	10 12 53 10.8	7.15N	72.74W	100	4.1b		¶97x1753
EIDC	X	10 12 53 21.4	6.9N	72.9W	202	3.5b		
NEIC	Less reliable solution.							
ISC	**X**	**16 02 46 45**±1.8	**6.9N**±.11	**73.0W**±.16	**144**±18	**4.2b**	**30**	**2-150**
NEIC	X	16 02 46 44.8	7.05N	73.08W	136	4.7b		¶97x2774
EIDC	X	16 02 46 50.6	6.8N	73.0W	195	3.8b		
NEIC	Less reliable solution.							
ISC	**X**	**20 00 20 18**±1.7	**7.1N**±.29	**72.6W**±.70	**150**	**3.7b**	**5**	**24-150**
EIDC	X	20 00 20 24.5	6.8N	72.8W	203	3.4b		¶97x3408
ISC	Poorly determined							
ISC	**X**	**26 18 09 14**±6.1	**7.4N**±.30	**72.7W**±.48	**96**±56	**4.0b**	**15**	**3-151**
NEIC	X	26 18 09 16.9	6.98N	72.77W	150	4.1b		¶97x4506
EIDC	X	26 18 10 08.5	7.8N	74.7W	584	3.1b		
NEIC	Less reliable solution.							
ISC	**XI**	**03 04 07 50.2**±.66	**6.85N**±.076	**73.43W**±.062	**186**±9.1	**3.9b**	**28**	**2-154**
NEIC	XI	03 04 07 50.7	6.73N	73.35W	200	4.5b		¶97xi0402
EIDC	XI	03 04 07 53.8	6.8N	73.0W	210	3.6b		
NEIC	Less reliable solution.							
ISC	**XI**	**14 21 22 05**±3.1	**6.9N**±.21	**72.7W**±.37	**162**±28	**3.6b**	**12**	**2-151**
EIDC	XI	14 21 22 01.9	6.7N	73.0W	119	3.5b		¶97xi2349
NEIC	XI	14 21 22 04.8	6.83N	72.71W	165			
NEIC	Poor solution.							
ISC	**XI**	**15 06 06 56**±2.7	**6.9N**±.30	**72.8W**±.40	**158**±33	**3.8b**	**12**	**2-151**
EIDC	XI	15 06 06 34.3	6.3N	72.2W	0	4.0b		¶97xi2429
NEIC	XI	15 06 06 58.7	6.60N	72.91W	200	3.5b		
NEIC	Less reliable solution.							
ISC	**XI**	**16 12 59 37**±1.6	**6.8N**±.10	**73.1W**±.16	**164**±14	**3.9b**	**21**	**1-149**
NEIC	XI	16 12 59 36.3	6.81N	72.97W	159	4.1b		¶97xi2651
EIDC	XI	16 12 59 38.5	6.8N	73.0W	160	3.6b		
ISC	**XI**	**27 15 03 04**±1.6	**8.0N**±.11	**73.6W**±.32	**33**	**3.8b**	**12**	**3-153**
EIDC	XI	27 15 04 01.1	7.8N	74.8W	639	2.7b		¶97xi4881
ISC	**XII**	**05 14 02 53**±5.9	**7.3N**±.76	**72.8W**±.29	**100**	**4.0b**	**15**	**6-151**
EIDC	XII	05 14 02 37.5±2.02	6.5N	72.4W	0	4.0b		¶97xii0893
NEIC	XII	05 14 02 54.7	7.42N	72.83W	100			
EIDC	Error ellipse is semi−major=90.8km semi−minor=33.5km azimuth=76							
ISC	**XII**	**14 21 02 25**±2.6	**6.5N**±.18	**72.7W**±.26	**195**±28	**3.6b**	**14**	**2-154**
EIDC	XII	14 21 02 05.4±.84	6.4N	72.9W	0	3.9b		¶97xii3195
NEIC	XII	14 21 02 23.8	6.66N	72.67W	173	4.0b		
EIDC	Error ellipse is semi−major=55.7km semi−minor=18.1km azimuth=63							
NEIC	Poor solution.							
ISC	**XII**	**15 10 04 08**±3.0	**7.1N**±.17	**72.8W**±.68	**150**	**3.5b**	**6**	**3-149**
EIDC	XII	15 10 03 47.7±2.51	6.6N	72.4W	0	3.8b		¶97xii3263
NEIC	XII	15 10 04 07.7	7.06N	72.88W	150			
EIDC	Error ellipse is semi−major=92.2km semi−minor=49.3km azimuth=81							
NEIC	Poor solution.							
EIDC	**XII**	**21 09 20 12.0**±2.02	**6.5N**	**72.5W**	**0**	**3.9b**		**37-151**
EIDC	Error ellipse is semi−major=89.9km semi−minor=36.1km azimuth=80							¶97xii4236

(101) Venezuela.

ISC	**VII**	**30 22 41 18.1**±.38	**9.46N**±.063	**69.45W**±.086	**33**	**4.2b**	**50**	**7-155**
NEIC	VII	30 22 41 18.0	9.47N	69.41W	33	4.4b		¶97vii4643
EIDC	VII	30 22 41 22.8	9.5N	69.4W	64	3.9b		
ISC	**VIII**	**22 19 02 05**±2.6	**8.47N**±.062	**63.22W**±.081	**27**±20	**4.0b,3.5s**	**28**	**3-148**
NEIC	VIII	22 19 02 02.3	8.45N	63.26W	10	4.2b		¶97viii3266
EIDC	VIII	22 19 02 05.6	8.5N	63.3W	19	3.9b,3.5s		
TRN	VIII	22 19 02 15.8	9.0N	62.3W	3	4.9D		
NEIC	Felt in the San Jose de Guanipa area.							
TRN	**X**	**05 08 48 51.2**	**9.3N**	**69.7W**	**33**			**¶97x0837**
TRN	**X**	**08 02 14 28.8**	**10.3N**	**69.7W**	**11**			**¶97x1340**
ISC	**XII**	**14 09 10 43**±1.4	**8.2N**±.17	**72.3W**±.52	**33**	**3.7b**	**6**	**21-62**
EIDC	XII	14 09 10 40.4±1.54	8.2N	72.2W	0	3.7b		¶97xii3123
EIDC	Error ellipse is semi−major=75.8km semi−minor=17.7km azimuth=78							
TRN	**XII**	**21 11 37 19.5**	**9.8N**	**65.5W**	**20**			**¶97xii4249**

SEISMIC REGION 8.
ANDEAN SOUTH AMERICA.

(102) Near west coast of Colombia.

ISC	**IX**	**09 05 45 48**±1.5	**5.79N**±.042	**77.49W**±.040	**23**±11	**4.9b,4.1s**	**219**	**2-156**
BJI	IX	09 05 45 47.3	5.80N	77.50W	21			¶97ix1332
NEIC	IX	09 05 45 47.3	5.79N	77.52W	21	5.1b		
EIDC	IX	09 05 45 48.1	5.8N	77.4W	19	4.5b,4.8L		
HRVD	IX	09 05 45 50.1±1.0	5.47N±.14	77.82W±.15	24±9.5			
NEIC	Mw5.1(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s12,c16; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.80±.36; $M_{\theta\theta}$0.96±.60; $M_{\phi\phi}$−3.76±.56; $M_{r\theta}$−2.59±1.18; $M_{r\phi}$−3.19±1.30; $M_{\theta\phi}$−0.38±.41. Principal Axes: T 5.31,Plg57°,Azm150°; N 0.05,Plg21°,Azm24°; P −5.36,Plg25°,Azm284°. Best double couple: $M_0$5.3×10^{16}Nm, NP1: ϕ_S338°,δ28°,λ40°. NP2:ϕ_S211°,δ73°,λ112°.							
ISC	**IX**	**23 15 35 58**±2.8	**5.54N**±.074	**77.79W**±.072	**17**±22	**4.4b,3.9s**	**52**	**2-146**
NEIC	IX	23 15 35 59.6	5.48N	77.80W	33	4.6b		¶97ix3446
EIDC	IX	23 15 36 05.8	5.6N	77.7W	65	3.9b,3.9s		
ISC	**IX**	**23 16 26 14.6**±.28	**5.50N**±.051	**77.74W**±.060	**33**	**4.7b**,3.8s	**87**	**2-156**
NEIC	IX	23 16 26 14.2	5.44N	77.81W	33	4.8b,3.8s		¶97ix3450
EIDC	IX	23 16 26 20.6	5.5N	77.8W	69	4.1b,4.8L		

ISC	**X**	**17 04 01 05.8**±.29	**5.88N**±.052	**77.52W**±.073	**10**	**4.4b,3.7s**	**59**	**2-156**
NEIC	X	17 04 01 05.3	5.84N	77.60W	10	4.5b		¶**97x2926**
EIDC	X	17 04 01 05.3	5.8N	77.4W	0	4.2b,3.7s		
NEIC	M_D4.9(UPA).							
ISC	**XI**	**02 21 54 01.1**±.78	**4.91N**±.053	**77.42W**±.052	**66**±8.2	**4.5b**	**100**	**1-157**
EIDC	XI	02 21 53 57.7	4.9N	77.6W	27	4.3b,4.3s		¶**97xi0343**
NEIC	XI	02 21 54 01.0	4.86N	77.44W	69	4.8b		

(103) Colombia.

ISC	**VII**	**09 22 20 26**±2.1	**5.5N**±.56	**72.9W**±.44	**267**±36	**3.5b**	**5**	**2-91**
NEIC	VII	09 22 20 26.0	5.49N	72.88W	265	3.4b		¶**97vii1401**
EIDC	VII	09 22 20 27.2	5.3N	73.0W	269	3.3b		
ISC	Poorly determined							
NEIC	Poor solution.							
EIDC	**VII**	**12 09 49 44.3**	**1.4N**	**75.3W**	**0**	3.1b,3.8L		**4-146**
								¶**97vii1798**
ISC	**VII**	**13 05 59 15**±3.7	**6.0N**±.14	**73.1W**±.24	**50**±36	**3.7b**,2.6s	**18**	**2-150**
EIDC	VII	13 05 59 10.2	6.0N	73.1W	0	3.7b,2.8L		¶**97vii1932**
NEIC	VII	13 05 59 13.1	6.03N	72.98W	33	4.0b		
NEIC	Less reliable solution.							
ISC	**VII**	**15 03 23 59**±1.2	**4.50N**±.070	**76.7W**±.11	**74**±14	**3.7b**	**20**	**1-146**
NEIC	VII	15 03 24 00.7	4.51N	76.58W	93	3.6b		¶**97vii2246**
EIDC	VII	15 03 24 03.0	4.6N	76.5W	96	3.5b,3.5s		
NEIC	Less reliable solution.							
ISC	**VII**	**15 07 18 57**±1.2	**1.6N**±.12	**77.6W**±.18	**33**	**4.0b**	**8**	**5-38**
EIDC	VII	15 07 18 54.2	1.6N	77.6W	0	3.6b		¶**97vii2267**
ISC	**VII**	**15 10 41 52**±2.1	**3.46N**±.094	**73.8W**±.20	**35**±22	**3.6b**	**10**	**1-148**
EIDC	VII	15 10 41 49.4	3.5N	74.0W	0	3.5b,4.1L		¶**97vii2292**
NEIC	VII	15 10 41 51.7	3.45N	73.76W	33			
NEIC	Less reliable solution.							
ISC	**VII**	**17 12 45 36.3**±.72	**3.78N**±.039	**74.01W**±.051	**41**±6.6	**4.7b,4.0s**	**143**	**1-157**
EIDC	VII	17 12 45 32.1	3.8N	74.0W	0	4.4b,4.1s		¶**97vii2596**
NEIC	VII	17 12 45 36.3	3.77N	74.03W	42	4.9b,4.0s		
BJI	VII	17 12 45 40.8	3.80N	74.00W	42			
NEIC	Felt at Bogota and Villavicencio. Also felt in Caqueta Department.							
ISC	**VII**	**19 16 57 55.2**±.81	**5.9N**±.12	**76.7W**±.12	**33**		**9**	**1-5**
NEIC	VII	19 16 57 55.2	5.94N	76.71W	33			¶**97vii2916**
NEIC	Less reliable solution.							
ISC	**VIII**	**07 13 12 38.5**±.97	**3.56N**±.082	**76.77W**±.091	**104**±9.5	**4.0b**	**26**	**2-146**
NEIC	VIII	07 13 12 38.7	3.59N	76.79W	105	4.1b		¶**97viii0942**
EIDC	VIII	07 13 12 41.9	3.5N	76.6W	124	3.7b,3.0s		
NEIC	Less reliable solution.							
ISC	**VIII**	**10 17 50 46.9**±.76	**4.6N**±.11	**75.6W**±.11	**161**±7.6	**3.5b**	**17**	**0-147**
NEIC	VIII	10 17 50 45.8	4.71N	75.48W	150			¶**97viii1432**
EIDC	VIII	10 17 50 48.4	4.6N	75.6W	156	3.3b		
NEIC	Poor solution.							
ISC	**IX**	**02 12 13 23.1**±.26	**3.88N**±.025	**75.70W**±.021	**196**±2.5	**6.2b**	**782**	**0-178**
BJI	IX	02 12 13 21.7	3.74N	75.76W	201			¶**97ix0276**
NEIC	IX	02 12 13 22.9	3.85N	75.75W	199	6.5b		
MOS	IX	02 12 13 23.5	3.8N	75.8W	208	7.0b		
EIDC	IX	02 12 13 24.3	3.8N	75.6W	202	5.8b,6.0s		
HRVD	IX	02 12 13 33.6±.1	4.00N	75.57W±.01	213±.3			
NEIC	Mw6.8(GS), Me6.5(GS)							

NEIC Radiated energy from the P−wave first−motion solution: 1.2±0.3×10^{14}Nm/20

NEIC Mw 6.8 (HRV). Mb 6.0 (BRK). Felt at Armenia, Bogota, Cali, Ibague, Manizales, Medellin, Pereira and many other parts of central and western Colombia. Also felt I=II MM at Panama City and Penonome, Panama. Mo=8.0×10^{18}Nm (PPT).

NEIC Moment tensor solution: s49, scale 10^{19}Nm; M_{rr}1.20; $M_{\theta\theta}$−2.01; $M_{\phi\phi}$0.81; $M_{r\theta}$0.41; $M_{r\phi}$−0.33; $M_{\theta\phi}$0.49. Depth 211km; Principal axes: T 1.40,Plg62°,Azm86°; N 0.76,Plg27°, Azm284°; P −2.15,Plg8°,Azm190°. Best double couple: M$_0$1.8×10^{19}Nm; NP1:ϕ_S252°,δ44°, λ49°. NP2:ϕ_S123°,δ58°,λ122°.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S122°,δ67°,λ120°. NP2:ϕ_S246°,δ37°,λ40°. Principal axes: T Plg57°,Azm73°; P Plg17°,Azm190°. Complex earthquake. A small event is followed by at least three larger events about 1.0, 4.0 and 7.0 seconds later. Depth and focal mechanism based on first of the larger events.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c135; Mantle waves: s54,c134; Half duration: 5s5. Moment tensor: Scale 10^{19}Nm; M_{rr}1.16±.01; $M_{\theta\theta}$−2.00±.01; $M_{\phi\phi}$0.84±.01; $M_{r\theta}$0.01±.00; $M_{r\phi}$−0.13±.01; $M_{\theta\phi}$0.28±.01. Principal Axes: T 1.21,Plg70°,Azm95°; N 0.82,Plg20°,Azm276°; P −2.03,Plg0°,Azm186°. Best double couple: M$_0$1.6×10^{19}Nm, NP1:ϕ_S256°,δ48°,λ62°. NP2:ϕ_S115°,δ49°,λ117°.

BOG	Felt at Cali, Lbague, Bogota, and in epicentral area							
EIDC	**IX**	**19 08 30 29.5**	**4.7N**	**75.5W**	**168**	2.9b		¶**97ix2763**
ISC	**X**	**19 12 58 09**±1.9	**2.8N**±.14	**75.1W**±.13	**33**		**7**	**1-3**
NEIC	X	19 12 58 08.2	2.76N	75.14W	33			¶**97x3351**
NEIC	Less reliable solution.							
ISC	**X**	**20 10 55 19.6**±.41	**4.85N**±.057	**76.30W**±.059	**120**±5.6	**3.8b**	**34**	**1-156**
EIDC	X	20 10 55 09.9	4.9N	76.1W	18	4.0b		¶**97x3486**
NEIC	X	20 10 55 19.4	4.86N	76.28W	118			
NEIC	M_D4.8(UPA).							
ISC	**XI**	**19 10 34 17.7**±.47	**3.30N**±.055	**76.46W**±.073	**86**±4.3	**4.4b**	**56**	**0-154**
BJI	XI	19 10 34 16.7	2.64N	75.79W	79			¶**97xi3192**
NEIC	XI	19 10 34 17.0	3.23N	76.47W	86	4.5b		
EIDC	XI	19 10 34 20.6	3.3N	76.4W	103	4.1b,3.4s		
NEIC	Felt at Cali.							
ISC	**XII**	**10 20 12 14.2**±.40	**4.75N**±.032	**76.02W**±.049	**101**±4.7	**4.3b**	**96**	**0-151**
NEIC	XII	10 20 12 13.9	4.68N	76.07W	103	4.5b		¶**97xii2420**
BJI	XII	10 20 12 14.9	4.70N	76.10W	103			
EIDC	XII	10 20 12 19.0±5.21	4.6N	76.1W	134±48.8	4.0b,3.4s		
IGQ	XII	10 20 12 22.5	4.3N	76.4W	55	4.9b		
NEIC	M_D4.6(UPA)							
NEIC	Felt in Risaralda and Valle del Cauca Departments.							
EIDC	Error ellipse is semi−major=23.3km semi−minor=12.8km azimuth=63							
BOG	Felt at Cali and Pereira							
ISC	**XII**	**11 07 56 29.7**±.23	**3.97N**±.020	**75.77W**±.020	**182**±2.5	**5.9b**	**765**	**0-174**
BJI	XII	11 07 56 28.8	3.90N	75.80W	178			¶**97xii2519**
NEIC	XII	11 07 56 28.8	3.93N	75.79W	178	6.0b		
MOS	XII	11 07 56 29.8	4.0N	75.8W	185	6.5b		
EIDC	XII	11 07 56 33.6±.46	4.0N	75.7W	209±3.4	5.2b		
HRVD	XII	11 07 56 35.8±.1	4.11N±.01	75.84W±.01	190±.5			
IGQ	XII	11 07 56 36.8	3.4N	76.6W	246	6.0b		
NEIC	Mw6.4(GS), Me6.1(GS). Damage.							

NEIC Radiated energy from the P−wave first−motion solution: 3.0±0.6×10^{13}Nm/15

NEIC Mw 6.4 (HRV). Minor damage at Cali. Felt at Bogota, Ibague, Manizales, Medellin and Pereira.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S250°,δ54°,λ45°. NP2:ϕ_S130°,δ55°,λ134°. Principal axes: T Plg55°,Azm99°; P Plg1°,Azm190°. Depth from broadband displacement seismograms.

NEIC Moment tensor solution: s34, scale 10^{18}Nm; M_{rr}2.33; $M_{\theta\theta}$−3.29; $M_{\phi\phi}$0.97; $M_{r\theta}$0.36; $M_{r\phi}$−1.96; $M_{\theta\phi}$1.24. Depth 183km; Principal axes: T 3.75,Plg53°,Azm96°; N 0.01,Plg35°, Azm295°; P −3.76,Plg9°,Azm198°. Best double couple: M$_0$3.8×10^{18}Nm; NP1:ϕ_S254°,δ47°, λ38°. NP2:ϕ_S136°,δ63°,λ130°.

EIDC Error ellipse is semi−major=13.9km semi−minor=8.6km azimuth=66

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c102; Mantle waves: s34,c76; Half duration: 3s7. Moment tensor: Scale 10^{18}Nm; M_{rr}2.01±.03; $M_{\theta\theta}$−3.61±.03; $M_{\phi\phi}$1.60±.03; $M_{r\theta}$0.25±.02; $M_{r\phi}$−2.01±.03; $M_{\theta\phi}$1.49±.03. Principal Axes: T 3.92,Plg46°,Azm99°; N 0.19,Plg43°,Azm295°; P −4.11,Plg8°,Azm197°. Best double couple: M$_0$4.0×10^{18}Nm, NP1:ϕ_S249°,δ53°,λ31°. NP2:ϕ_S140°,δ66°,λ139°.

BOG	Felt at Bogota and Medellin							
ISC	**XII**	**11 17 27 50**±3.0	**4.4N**±.44	**76.2W**±.34	**150**	**3.5b**	**11**	**5-146**
EIDC	XII	11 17 27 32.9±6.25	4.1N	76.7W	0	3.8b		¶**97xii2607**
EIDC	Error ellipse is semi−major=391.2km semi−minor=41.2km azimuth=91							

(104) Off coast of Ecuador.

ISC	**VII**	**13 23 09 42.5**±.49	**1.33N**±.098	**85.1W**±.13	**10**	**4.3b**	**53**	**8-151**
EIDC	VII	13 23 09 41.8	1.7N	84.8W	0	3.9b,4.6L		¶**97vii2038**
NEIC	VII	13 23 09 45.3	1.27N	85.15W	33	4.5b		
BJI	VII	13 23 09 48.3	1.30N	85.20W	33			
NEIC	Less reliable solution.							
IGQ	**VII**	**31 04 05 11.6**	**1.6S**	**81.7W**	**55**	**4.3b**		¶**97vii4673**
ISC	**VIII**	**03 07 16 10.1**±.93	**0.5N**±.23	**85.3W**±.42	**10**	**3.7b**,3.7s	**9**	**24-78**
NEIC	VIII	03 07 16 09.2	0.47N	85.54W	10			¶**97viii0328**
EIDC	VIII	03 07 16 10.4	0.3N	86.1W	0	3.7b,3.6s		
NEIC	Poor solution.							
IGQ	**VIII**	**18 08 32 39.6**	**1.2S**	**81.2W**	**12**	**4.5b**		¶**97viii2645**
IGQ	**VIII**	**20 00 22 22.8**	**1.6S**	**81.2W**	**52**	**4.0b**		¶**97viii2887**
IGQ	**VIII**	**31 02 59 28.4**	**1.5S**	**81.4W**	**52**	**4.3b**		¶**97viii4576**
IGQ	**IX**	**30 04 21 27.4**	**1.4S**	**81.3W**	**5**	**4.2b**		¶**97ix5122**
IGQ	**X**	**22 16 30 40.7**	**0.8S**	**81.1W**	**45**	**4.0b**		¶**97x3848**
ISC	**XI**	**02 00 55 50.9**±.91	**1.4S**±.33	**81.3W**±.57	**33**	**3.8b**	**6**	**20-81**
EIDC	XI	02 00 55 47.7	1.4S	81.5W	0	3.7b,3.5L		¶**97xi0170**
ISC	**XI**	**11 10 15 07**±2.9	**1.5S**±.11	**81.4W**±.24	**43**		**17**	**2-20**
IGQ	XI	11 10 15 03.3	1.6S	81.6W	43	4.9b		¶**97xi1771**
IGQ	**XI**	**12 13 26 10.0**	**2.0S**	**82.4W**	**50**	**4.4b**		¶**97xi1989**
IGQ	**XI**	**12 19 58 54.6**	**1.7S**	**81.8W**	**45**	**4.4b**		¶**97xi2031**
IGQ	**XI**	**13 05 12 33.2**	**1.6S**	**81.5W**	**52**	**4.1b**		¶**97xi2081**
IGQ	**XI**	**13 08 26 31.9**	**1.7S**	**82.0W**	**52**	**4.0b**		¶**97xi2100**
ISC	**XI**	**16 08 28 02**±2.1	**0.86N**±.075	**85.3W**±.11	**47**±18	**4.2b,4.5s**	**66**	**8-150**
EIDC	XI	16 08 27 57.0	0.8N	85.4W	0	4.2b,4.4s		¶**97xi2618**
BJI	XI	16 08 28 00.6	0.86N	85.50W	49			
NEIC	XI	16 08 28 01.2	0.83N	85.34W	47	4.6b,4.5s		
ISC	**XI**	**16 10 14 22**±1.0	**0.4N**±.28	**85.9W**±.44	**33**	**3.6b**	**7**	**24-78**
EIDC	XI	16 10 14 18.7	0.5N	85.6W	0	3.7b		¶**97xi2630**
NEIC	XI	16 10 14 21.7	0.46N	85.72W	33	3.9b		
NEIC	Poor solution.							
ISC	**XI**	**16 10 19 31.2**±.58	**1.7N**±.23	**84.3W**±.38	**33**	**4.0b**,3.9s	**15**	**15-77**
EIDC	XI	16 10 19 28.4	1.7N	84.4W	0	4.0s,4.0b		¶**97xi2631**
NEIC	XI	16 10 19 30.7	1.96N	83.79W	33	4.3b		
NEIC	Less reliable solution.							
ISC	**XI**	**16 11 41 41.6**±.93	**1.2N**±.28	**84.9W**±.46	**33**	**3.7b**	**7**	**24-77**
EIDC	XI	16 11 41 38.4	1.2N	84.8W	0	3.7b		¶**97xi2640**
NEIC	XI	16 11 41 41.4	1.20N	84.81W	33	3.8b		
NEIC	Poor solution.							
ISC	**XI**	**16 13 13 44**±1.9	**0.91N**±.080	**85.2W**±.11	**65**±17	**4.4b**	**43**	**8-160**
NEIC	XI	16 13 13 39.9	0.85N	85.20W	33	4.6b,3.9s		¶**97xi2652**
EIDC	XI	16 13 13 45.1	0.9N	85.2W	64	4.1b,3.8s		
ISC	**XI**	**16 14 48 13.7**±.87	**1.4N**±.25	**84.4W**±.40	**33**	**4.0b**,3.1s	**10**	**15-77**
EIDC	XI	16 14 48 10.4	1.5N	84.3W	0	4.0b,3.1s		¶**97xi2658**
NEIC	XI	16 14 48 13.5	1.43N	84.36W	33	4.2b		
NEIC	Poor solution.							
ISC	**XI**	**21 09 34 38.1**±.77	**1.2N**±.24	**84.8W**±.40	**33**	**4.0b**,3.3s	**13**	**24-136**
EIDC	XI	21 09 34 34.6	1.2N	84.7W	0	3.9b,3.3s		¶**97xi3631**
NEIC	XI	21 09 34 37.9	1.17N	84.79W	33	4.1b		
NEIC	Poor solution.							
ISC	**XII**	**19 21 41 38**±1.5	**1.06S**±.086	**81.2W**±.11	**4**	4.2b	**32**	**1-148**
IGQ	XII	19 21 41 35.3	1.1S	81.3W	4	4.7b		¶**97xii4039**
IGQ	**XII**	**19 23 07 37.6**	**1.3S**	**81.8W**	**52**	**4.2b**		¶**97xii4044**
ISC	**XII**	**22 04 13 13**±2.0	**1.1S**±.14	**81.1W**±.14	**21**	3.6b	**28**	**1-148**
IGQ	XII	22 04 13 08.8	1.1S	81.2W	21	4.1b		¶**97xii4351**

(105) Near coast of Ecuador.

ISC	**VII**	**13 06 11 30**±3.8	**2.2S**±.29	**79.9W**±.14	**32**		**16**	**1-3**
IGQ	VII	13 06 11 27.9	2.2S	79.9W	32	4.2b		¶**97vii1934**
ISC	**VII**	**13 23 51 16**±1.8	**1.16S**±.094	**80.2W**±.15	**76**±18	**4.0b**	**43**	**1-140**
NEIC	VII	13 23 51 11.6	1.27S	80.49W	33	4.3b		¶**97vii2042**
EIDC	VII	13 23 51 18.1	1.2S	80.3W	83	3.8b,4.4L		
IGQ	VII	13 23 51 21.0	1.0S	79.7W	18	4.3b		
NEIC	Less reliable solution.							
ISC	**VII**	**14 08 55 11**±2.7	**1.0N**±.18	**79.0W**±.11	**12**		**11**	**1-2**
IGQ	VII	14 08 55 09.4	0.9N	79.1W	12	4.1b		¶**97vii2088**
IGQ	**VII**	**15 16 54 45.2**	**2.4S**	**80.6W**	**50**	**4.2b**		¶**97vii2323**
ISC	**VII**	**16 21 19 07**±6.2	**1.2S**±.20	**80.5W**±.42	**22**		**20**	**1-3**
IGQ	VII	16 21 18 56.1	1.5S	81.1W	22	4.1b		¶**97vii2496**
ISC	**VII**	**24 17 48 13**±2.0	**1.29S**±.074	**80.9W**±.17	**12**		**23**	**0-20**
IGQ	VII	24 17 48 12.9	1.4S	80.8W	12	4.4b		¶**97vii3707**
ISC	**VII**	**27 18 00 13**±2.5	**0.7N**±.17	**79.41W**±.089	**58**±27		**20**	**0-2**
IGQ	VII	27 18 00 11.2	0.7N	79.4W	23	4.2b		¶**97vii4145**
IGQ	**VIII**	**24 03 41 28.7**	**2.7S**	**79.9W**	**52**	**4.2b**		¶**97viii3478**
ISC	**VIII**	**28 11 43 13**±9.2	**2.2S**±.48	**80.0W**±.47	**6**		**16**	**1-4**
IGQ	VIII	28 11 43 12.2	2.1S	79.9W	6	4.3b		¶**97viii4123**
ISC	**VIII**	**30 06 49 30**±1.8	**2.90S**±.072	**80.6W**±.13	**55**±17	**4.3b**,3.8s	**53**	**2-165**
IGQ	VIII	30 06 49 21.6	3.3S	81.1W	52	4.9b		¶**97viii4449**
EIDC	VIII	30 06 49 24.8	2.7S	80.4W	0	4.2b,4.3L		
NEIC	VIII	30 06 49 27.4	2.78S	80.49W	33	4.5b		
ISC	**IX**	**04 16 29 11**±1.5	**3.49S**±.076	**79.7W**±.21	**51**		**22**	**2-9**
IGQ	IX	04 16 29 04.6	4.0S	79.8W	51	4.4b		¶**97ix0607**
IGQ	**IX**	**05 14 39 55.1**	**2.1S**	**80.6W**	**5**	**4.2b**		¶**97ix0756**
ISC	**IX**	**09 16 17 36.3**±.53	**0.82N**±.068	**80.59W**±.070	**3**	**3.8b**,3.6s	**29**	**1-51**
IGQ	IX	09 16 17 34.0	0.9N	80.6W	3	4.6b		¶**97ix1406**
EIDC	IX	09 16 17 37.5	0.7N	80.6W	0	3.8b,3.5s		
NEIC	IX	09 16 17 39.4	0.72N	80.44W	33	4.1b		
NEIC	Poor solution.							
ISC	**IX**	**11 01 03 30**±1.2	**2.80S**±.076	**79.5W**±.13	**13**		**22**	**2-9**
IGQ	IX	11 01 03 28.9	2.7S	79.4W	13	4.4b		¶**97ix1604**
ISC	**IX**	**11 05 12 26**±12	**1.3S**±.30	**80.9W**±.67	**16**±33		**16**	**0-3**
IGQ	IX	11 05 12 28.8	1.3S	80.5W	12	4.0b		¶**97ix1637**
ISC	**IX**	**20 20 17 33**±5.2	**1.4S**±.16	**81.0W**±.36	**9**		**17**	**1-4**
IGQ	IX	20 20 17 25.2	1.5S	81.4W	9	4.2b		¶**97ix3000**

Agency		Origin Time mo	d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**IX**	**21 01 20 27**±4.2					**1.3N**±.28	**79.9W**±.17	**3**		**20**	**2-3**
IGQ	IX	21 01 20 29.8					1.0N	79.7W	3	4.1b		¶97ix3025
IGQ	**IX**	**22 00 40 35.7**					**2.6S**	**80.3W**	**52**	**4.0b**		¶97ix3194
ISC	**IX**	**22 04 17 40**±3.4					**2.2S**±.26	**79.8W**±.12	**22**		**21**	**1-3**
IGQ	IX	22 04 17 38.2					2.2S	79.8W	22	4.0b		¶97ix3208
IGQ	**IX**	**23 04 18 12.9**					**3.5S**	**79.9W**	**52**	**4.4b**		¶97ix3372
ISC	**IX**	**26 00 36 01**±8.2					**1.3S**±.32	**80.6W**±.52	**10**		**14**	**0-3**
IGQ	IX	26 00 36 02.4					1.1S	80.3W	10	4.1b		¶97ix3816
ISC	**IX**	**30 02 00 07**±1.3					**3.87S**±.076	**79.7W**±.17	**52**		**20**	**3-9**
IGQ	IX	30 02 00 02.4					4.3S	79.5W	52	4.7b		¶97ix5097
ISC	**X**	**03 09 29 40**±8.0					**1.0S**±.19	**80.8W**±.56	**16**		**19**	**0-3**
IGQ	X	03 09 29 34.0					1.1S	81.2W	16	4.1b		¶97x0437
ISC	**X**	**07 16 53 56**±4.2					**2.0S**±.29	**80.1W**±.18	**8**		**16**	**1-3**
IGQ	X	07 16 53 54.1					2.1S	80.1W	8	4.1b		¶97x1280
ISC	**X**	**15 12 11 54**±2.9					**2.0S**±.22	**79.9W**±.11	**38**		**22**	**1-3**
IGQ	X	15 12 11 51.6					2.1S	79.9W	38	4.1b		¶97x2629
ISC	**X**	**23 12 33 57**±7.9					**1.5S**±.27	**80.9W**±.53	**45**		**19**	**1-4**
IGQ	X	23 12 33 48.0					1.8S	81.4W	45	4.1b		¶97x3995
ISC	**X**	**24 15 33 37**±4.5					**0.2S**±.15	**80.8W**±.31	**18**		**22**	**1-3**
IGQ	X	24 15 33 32.8					0.1S	81.0W	18	4.2b		¶97x4191
ISC	**X**	**25 00 41 23.7**±.90					**0.31N**±.055	**79.17W**±.062	**11**		**25**	**1-2**
IGQ	X	25 00 41 23.3					0.3N	79.1W	11	4.2b		¶97x4245
ISC	**X**	**31 04 32 44**±11					**2.9S**±.75	**79.8W**±.34	**51**		**23**	**2-4**
IGQ	X	31 04 32 42.8					3.0S	79.7W	51	4.4b		¶97x5127
IGQ	**XI**	**03 01 39 43.4**					**1.8S**	**80.0W**		**4.0b**		¶97xi0372
ISC	**XI**	**04 22 09 03**±9.6					**2.2S**±.53	**79.8W**±.46	**6**		**16**	**1-3**
IGQ	XI	04 22 09 00.2					2.2S	79.9W	6	4.0b		¶97xi0694
ISC	**XI**	**06 19 39 29**±9.0					**2.2S**±.48	**79.8W**±.45	**4**		**19**	**1-4**
IGQ	XI	06 19 39 27.3					2.2S	79.8W	4	4.1b		¶97xi1018
ISC	**XI**	**07 21 14 42**±3.6					**0.1N**±.11	**80.3W**±.26	**6**		**17**	**0-2**
IGQ	XI	07 21 14 43.2					0.1N	80.1W	6	4.0b		¶97xi1170
ISC	**XI**	**08 06 56 52**±2.3					**0.3N**±.11	**80.1W**±.15	**5**		**16**	**1-2**
IGQ	XI	08 06 56 52.4					0.3N	79.9W	5	4.0b		¶97xi1228
ISC	**XI**	**08 23 50 32**±11					**2.6S**±.72	**80.1W**±.42	**12**		**20**	**2-4**
IGQ	XI	08 23 50 31.4					2.6S	80.0W	12	4.2b		¶97xi1365
ISC	**XI**	**10 16 53 40**±9.0					**2.6S**±.59	**79.9W**±.32	**5**		**21**	**2-4**
IGQ	XI	10 16 53 42.8					2.2S	79.7W	5	4.0b		¶97xi1643
ISC	**XI**	**11 16 54 56**±1.8					**0.12N**±.096	**80.1W**±.12	**4**		**18**	**0-2**
IGQ	XI	11 16 54 55.8					0.1N	80.0W	4	4.4b		¶97xi1828
IGQ	**XI**	**12 14 54 43.5**					**3.0S**	**79.4W**	**12**	**4.3b**		¶97xi1998
IGQ	**XI**	**13 04 42 50.9**					**2.3S**	**80.1W**	**5**	**4.4b**		¶97xi2077
ISC	**XI**	**17 13 31 13**±5.1					**1.2S**±.17	**80.5W**±.35	**11**		**25**	**1-3**
IGQ	XI	17 13 31 11.0					1.3S	80.4W	11	4.3b		¶97xi2805
ISC	**XII**	**08 08 20 39**±1.5					**0.29N**±.087	**79.86W**±.096	**1**		**20**	**1-2**
IGQ	XII	08 08 20 39.1					0.2N	79.8W	1	4.5b		¶97xii1891
ISC	**XII**	**11 09 10 43**±3.1					**1.0N**±.17	**79.9W**±.18	**12**		**15**	**1-3**
IGQ	XII	11 09 10 42.9					0.9N	79.7W	12	4.0b		¶97xii2527
IGQ	**XII**	**14 20 01 39.7**					**2.4S**	**79.7W**	**33**	**4.5b**		¶97xii3190
ISC	**XII**	**17 03 57 56**±9.8					**0.8S**±.17	**80.6W**±.70	**12**		**19**	**1-3**
IGQ	XII	17 03 57 53.9					0.9S	80.7W	12	4.1b		¶97xii3547
ISC	**XII**	**17 05 36 34**±9.5					**2.2S**±.51	**79.7W**±.46	**6**		**17**	**1-3**
IGQ	XII	17 05 36 31.9					2.1S	79.8W	6	4.0b		¶97xii3557
IGQ	**XII**	**21 00 55 26.0**					**2.6S**	**79.3W**	**12**	**4.1b**		¶97xii4188
ISC	**XII**	**23 00 57 08**±9.9					**1.1S**±.20	**81.0W**±.69	**12**		**22**	**1-4**
IGQ	XII	23 00 56 58.3					1.0S	81.6W	12	4.6b		¶97xii4510
ISC	**XII**	**30 19 58 27**±2.6					**0.08N**±.084	**79.8W**±.18	**4**		**17**	**1-2**
IGQ	XII	30 19 58 23.1					0.1N	79.9W	4	4.1b		¶97xii5781

(106) Colombia-Ecuador border region.

ISC	**VII**	**19 07 54 01**±1.4					**0.09N**±.049	**77.4W**±.11	**13**		**22**	**1-2**
IGQ	VII	19 07 53 59.4					0.1N	77.3W	13	4.0b		¶97vii2844
ISC	**VIII**	**06 18 53 54**±2.4					**0.7N**±.15	**78.5W**±.12	**6**		**21**	**0-20**
IGQ	VIII	06 18 53 52.0					0.8N	78.6W	6	4.3b		¶97viii0829
ISC	**X**	**27 01 09 09.6**±.83					**0.82N**±.054	**78.93W**±.064	**0**		**25**	**0-2**
IGQ	X	27 01 09 08.2					0.8N	79.0W		4.2b		¶97x4548
ISC	**XII**	**08 00 35 46.4**±.76					**0.10N**±.040	**78.45W**±.070	**1**±9.0		**18**	**0-2**
IGQ	XII	08 00 35 46.2					0.1N	78.4W	11	4.1b		¶97xii1829

(107) Ecuador.

ISC	**VII**	**01 21 41 08.4**±.57					**1.32S**±.058	**78.45W**±.073	**14**±7.3		**21**	**0-2**
IGQ	VII	01 21 41 07.6					1.3S	78.5W	18	4.1b		¶97vii0144
ISC	**VII**	**02 19 31 37.5**±.74					**0.71S**±.035	**78.69W**±.057	**13**±6.3		**20**	**0-1**
IGQ	VII	02 19 31 36.7					0.7S	78.7W	17	4.0b		¶97vii0289
ISC	**VII**	**09 14 14 31**±1.1					**1.95S**±.082	**79.75W**±.089	**99**±19		**26**	**1-10**
IGQ	VII	09 14 14 32.4					1.8S	79.7W	40	4.3b		¶97vii1351
ISC	**VII**	**25 19 37 58.1**±.63					**0.11S**±.043	**78.41W**±.050	**6**±8.5		**15**	**0-1**
IGQ	VII	25 19 37 57.4					0.1S	78.4W	12	4.0b		¶97vii3866
ISC	**VII**	**30 16 06 23**±1.1					**1.11S**±.090	**79.67W**±.074	**19**±15		**18**	**1-3**
IGQ	VII	30 16 06 21.9					1.1S	79.7W	40	4.1b		¶97vii4600
ISC	**VIII**	**09 02 28 24.3**±.93					**1.08S**±.034	**78.30W**±.087	**1**±11		**20**	**0-2**
IGQ	VIII	09 02 28 23.6					1.1S	78.3W	3	4.1b		¶97viii1191
ISC	**VIII**	**10 13 55 39**±6.7					**1.2S**±.12	**78.3W**±.92	**18**		**6**	**0-1**
IGQ	VIII	10 13 55 38.7					1.2S	78.4W	18	4.8b		¶97viii1399
ISC	**VIII**	**13 05 04 16**±1.8					**0.6S**±.14	**79.1W**±.42	**186**		**17**	**0-1**
IGQ	VIII	13 05 04 15.3					0.6S	79.0W	186	4.4b		¶97viii1854
ISC	**VIII**	**15 19 02 43**±1.4					**0.34S**±.052	**77.4W**±.11	**11**		**22**	**1-2**
IGQ	VIII	15 19 02 41.9					0.4S	77.4W	11	4.0b		¶97viii2258
ISC	**VIII**	**20 20 58 07.6**±.68					**2.99S**±.083	**78.0W**±.22	**16**	**4.1b**	**30**	**2-97**
IGQ	VIII	20 20 58 08.6					2.7S	78.0W	16	4.2b		¶97viii3016
ISC	**VIII**	**23 17 37 33**±1.4					**2.9S**±.13	**78.1W**±.27	**5**		**19**	**1-17**
IGQ	VIII	23 17 37 29.9					2.8S	78.0W	5	4.9b		¶97viii3429
IGQ	**VIII**	**26 06 27 00.8**					**1.8S**	**77.0W**	**52**	**4.0b**		¶97viii3797
IGQ	**VIII**	**26 07 47 57.7**					**2.8S**	**78.2W**	**12**	**4.1b**		¶97viii3806
ISC	**VIII**	**27 05 56 28**±1.0					**0.57S**±.040	**78.85W**±.080	**10**±8.1		**17**	**0-1**
IGQ	VIII	27 05 56 27.3					0.6S	78.8W	11	4.1b		¶97viii3945
ISC	**VIII**	**31 04 41 23**±10					**2.3S**±.70	**78.0W**±.23	**5**		**10**	**1-2**
IGQ	VIII	31 04 41 08.2					3.2S	78.0W	5	4.1b		¶97viii4583
ISC	**VIII**	**31 05 16 34.6**±.81					**1.07S**±.036	**78.30W**±.087	**8**±9.4		**18**	**0-2**
IGQ	VIII	31 05 16 34.0					1.1S	78.3W	5	4.0b		¶97viii4588
ISC	**IX**	**01 03 07 53**±1.7					**1.15S**±.066	**78.2W**±.19	**33**		**10**	**0-1**
IGQ	IX	01 03 08 40.7					0.0S	80.9W	19	4.0b		¶97ix0032
IGQ	**IX**	**02 08 05 40.9**					**2.7S**	**78.7W**	**5**	**4.2b**		¶97ix0241
IGQ	**IX**	**02 10 26 43.6**					**2.7S**	**78.7W**	**5**	**4.0b**		¶97ix0259
ISC	**IX**	**03 17 21 54**±13					**1.9S**±.70	**77.6W**±.63	**27**		**15**	**1-2**
IGQ	IX	03 17 21 41.3					2.6S	77.2W	27	4.1b		¶97ix0452
ISC	**IX**	**03 21 19 39**±5.7					**1.6S**±.25	**77.8W**±.23	**193**±42		**22**	**1-3**
IGQ	IX	03 21 19 38.5					1.6S	77.8W	195	4.2b		¶97ix0493
IGQ	**IX**	**08 20 45 18.5**					**2.9S**	**79.0W**	**28**	**4.3b**		¶97ix1277
IGQ	**IX**	**09 19 54 53.7**					**2.6S**	**78.7W**	**5**	**4.0b**		¶97ix1434
IGQ	**IX**	**12 20 21 25.7**					**2.9S**	**78.1W**	**5**	**4.2b**		¶97ix1871
ISC	**IX**	**13 13 58 33**±1.9					**1.8S**±.20	**77.7W**±.23	**232**		**21**	**1-3**
IGQ	IX	13 13 58 32.8					1.7S	77.8W	232	4.3b		¶97ix1982
IGQ	**IX**	**15 23 51 10.4**					**2.0S**	**78.7W**	**12**	**4.1b**		¶97ix2299
ISC	**IX**	**23 00 08 29.2**±.74					**1.7S**±.12	**78.2W**±.13	**174**±8.3		**25**	**0-74**
IGQ	IX	23 00 08 28.4					1.7S	78.1W	172	4.4b		¶97ix3341
ISC	**IX**	**24 20 15 11**±3.1					**1.0S**±.13	**79.34W**±.098	**89**±39		**14**	**0-2**
IGQ	IX	24 20 15 06.2					0.9S	79.6W	94	4.2b		¶97ix3625
ISC	**IX**	**29 02 35 23**±6.8					**0.2S**±.14	**77.8W**±.42	**2**		**4**	**0-1**
IGQ	IX	29 02 35 21.7					0.2S	77.8W	2	4.1b		¶97ix4837
ISC		Poorly determined										
IGQ	**X**	**02 11 23 27.5**					**2.8S**	**78.1W**	**12**	**4.2b**		¶97x0269
IGQ	**X**	**05 19 01 00.0**					**2.8S**	**78.0W**	**7**	**4.2b**		¶97x0915
IGQ	**X**	**05 23 41 30.2**					**3.0S**	**78.1W**	**12**	**4.4b**		¶97x0952
ISC	**X**	**07 05 58 08.8**±.61					**0.02S**±.036	**78.41W**±.044	**4**±5.9		**26**	**0-2**
IGQ	X	07 05 58 08.4					0.0S	78.4W	10	4.2b		¶97x1189
ISC	**X**	**09 12 14 31.0**±.50					**0.60S**±.031	**78.39W**±.061	**9**±5.4		**19**	**0-1**
IGQ	X	09 12 14 30.5					0.6S	78.4W	6	4.2b		¶97x1581
ISC	**X**	**30 20 01 07.9**±.87					**0.23S**±.050	**78.28W**±.056	**2**		**11**	**0-1**
IGQ	X	30 20 01 07.1					0.2S	78.3W	2	4.0b		¶97x5083
IGQ	**X**	**31 03 10 14.4**					**1.7S**	**77.9W**	**47**	**4.4b**		¶97x5119
ISC	**XI**	**02 23 10 56.9**±.87					**1.8S**±.11	**78.2W**±.13	**189**		**27**	**0-74**
IGQ	XI	02 23 10 55.0					1.8S	78.0W	189	4.3b		¶97xi0355
ISC	**XI**	**03 19 51 53**±1.6					**1.5S**±.12	**78.51W**±.083	**17**		**22**	**0-2**
IGQ	XI	03 19 51 53.1					1.5S	78.5W	17	4.0b		¶97xi0511
ISC	**XI**	**05 10 37 53.0**±.53					**2.38S**±.046	**78.71W**±.059	**110**±4.0	**4.6b**	**118**	**1-164**
IGQ	XI	05 10 37 52.3					2.4S	78.9W	102	4.7b		¶97xi0776
NEIC	XI	05 10 37 52.7					2.40S	78.75W	108	4.7b		
EIDC	XI	05 10 37 54.0					2.3S	78.6W	104	4.2b		
BJI	XI	05 10 37 55.2					2.40S	78.80W	107			
IGQ	**XI**	**08 16 16 11.1**					**2.9S**	**78.2W**	**8**	**4.4b**		¶97xi1315
ISC	**XI**	**08 23 40 12**±7.0					**1.5S**±.29	**78.1W**±.30	**179**±51		**18**	**0-3**
IGQ	XI	08 23 40 11.3					1.4S	78.0W	177	4.1b		¶97xi1363
ISC	**XI**	**23 04 46 34**±1.3					**0.85S**±.055	**77.7W**±.11	**28**		**21**	**0-2**
IGQ	XI	23 04 46 32.6					0.8S	77.7W	28	4.1b		¶97xi4035
ISC	**XI**	**23 23 23 16**±2.5					**1.5S**±.14	**78.0W**±.12	**9**		**21**	**0-2**
IGQ	XI	23 23 23 14.4					1.5S	77.9W	9	4.1b		¶97xi4221
ISC	**XI**	**24 01 51 43**±7.5					**1.6S**±.28	**77.8W**±.31	**214**±55		**22**	**1-3**
IGQ	XI	24 01 51 45.7					1.4S	77.8W	195	4.1b		¶97xi4242
ISC	**XI**	**27 18 33 24.9**±.52					**1.04S**±.028	**78.31W**±.054	**3**		**25**	**0-2**
IGQ	XI	27 18 33 24.5					1.0S	78.3W	3	4.4b		¶97xi4919
ISC	**XI**	**28 23 28 13.0**±.57					**1.06S**±.030	**78.32W**±.069	**12**		**23**	**0-2**
IGQ	XI	28 23 28 12.9					1.0S	78.4W	12	4.1b		¶97xi5156
ISC	**XI**	**29 00 22 39.1**±.55					**1.04S**±.028	**78.31W**±.060	**2**		**22**	**0-2**
IGQ	XI	29 00 22 38.9					1.0S	78.3W	2	4.2b		¶97xi5163
ISC	**XI**	**29 07 52 50.6**±.65					**1.06S**±.033	**78.29W**±.067	**8**		**19**	**0-1**
IGQ	XI	29 07 52 50.5					1.0S	78.3W	8	4.0b		¶97xi5221
ISC	**XII**	**03 03 53 00**±1.5					**0.32S**±.045	**77.8W**±.10	**0**		**18**	**0-1**
IGQ	XII	03 03 52 59.4					0.3S	77.9W		4.0b		¶97xii0358
IGQ	**XII**	**03 06 23 45.3**					**2.0S**	**79.9W**	**12**	**4.1b**		¶97xii0369
ISC	**XII**	**11 14 40 24.2**±.60					**1.06S**±.033	**78.31W**±.070	**14**		**21**	**0-2**
IGQ	XII	11 14 40 23.8					1.0S	78.3W	14	4.0b		¶97xii2583
ISC	**XII**	**11 15 25 07.6**±.63					**1.05S**±.032	**78.29W**±.063	**8**±9.4		**21**	**0-2**
IGQ	XII	11 15 25 07.3					1.0S	78.3W	12	4.0b		¶97xii2593
ISC	**XII**	**15 12 43 55.7**±.79					**1.08S**±.037	**78.77W**±.068	**9**±8.3		**20**	**0-1**
IGQ	XII	15 12 43 54.8					1.1S	78.8W	19	4.1b		¶97xii3286
ISC	**XII**	**19 05 37 38**±1.3					**1.09S**±.062	**79.42W**±.079	**4**		**23**	**1-3**
IGQ	XII	19 05 37 38.6					1.0S	79.4W	4	4.2b		¶97xii3898
ISC	**XII**	**25 14 16 55.6**±.65					**1.09S**±.032	**78.30W**±.059	**1**±7.5		**25**	**0-69**
IGQ	XII	25 14 16 55.5					1.1S	78.3W	11	4.7b		¶97xii4943
ISC	**XII**	**25 23 11 33.3**±.85					**1.10S**±.031	**78.31W**±.084	**0**±9.9		**23**	**0-2**
IGQ	XII	25 23 11 32.7					1.1S	78.3W	2	4.7b		¶97xii5002
IGQ	**XII**	**26 09 01 57.9**					**1.8S**	**78.1W**	**10**	**4.6b**		¶97xii5089
ISC	**XII**	**31 12 42 13**±4.6					**1.7S**±.29	**78.7W**±.11	**12**		**23**	**0-3**
IGQ	XII	31 12 42 03.4					2.1S	79.0W	12	4.0b		¶97xii5896

(108) Off coast of Northern Peru.

ISC	**VII**	**08 03 23 18**±4.1					**9.43S**±.063	**80.49W**±.090	**4**±24	**4.6b,4.6s**	**135**	**4-171**
EIDC	VII	08 03 23 18.5					9.4S	80.4W	0	4.4b,3.9L		¶97vii1136
NEIC	VII	08 03 23 22.9					9.38S	80.39W	38	4.9b,4.6s		
BJI	VII	08 03 23 26.9					9.40S	80.40W	38	5.5s		
IGQ	VII	08 03 23 57.1					6.8S	80.3W	159	5.1b		
ISC	**X**	**22 18 08 03**±3.3					**7.6S**±.18	**80.6W**±.26	**49**±35	**4.2b**	**18**	**6-134**
NEIC	X	22 18 08 01.3					7.55S	80.63W	33	4.3b		¶97x3864
EIDC	X	22 18 08 10.6					7.6S	80.3W	104	3.6b,3.7L		
NEIC		Less reliable solution.										
ISC	**XI**	**26 06 00 09**±1.4					**7.8S**±.45	**80.3W**±.55	**39**±2.4*	**3.9b**	**10**	**5-136**
NEIC	XI	26 06 00 08.2					7.90S	80.37W	39			¶97xi4644
EIDC	XI	26 06 00 10.6					7.8S	80.1W	38	3.8b,4.0L		
NEIC		Less reliable solution.										
IGQ	**XII**	**15 17 26 00.8**					**3.1S**	**83.3W**	**16**	**4.1b**		¶97xii3314
ISC	**XII**	**17 11 34 40**±3.5					**9.89S**±.098	**79.8W**±.16	**21**±22	**4.3b**	**44**	**4-155**
NEIC	XII	17 11 34 42.2					9.81S	79.68W	33	4.6b		¶97xii3596
BJI	XII	17 11 34 44.2					9.80S	79.70W	33			
EIDC	XII	17 11 34 50.0±1.17					9.7S	79.7W	84±7.4	3.9b		
IGQ	XII	17 11 35 49.7					4.9S	79.0W	129	5.4b		
NEIC		Less reliable solution.										
EIDC		Error ellipse is semi−major=40.2km semi−minor=18.6km azimuth=48										

(109) Near coast of Northern Peru.

ISC	**VII**	**23 14 52 04**±1.5					**9.17S**±.082	**78.81W**±.084	**63**±15	**5.0b**	**140**	**3-171**
NEIC	VII	23 14 52 03.6					9.23S	78.85W	66	5.0b		¶97vii3547
EIDC	VII	23 14 52 05.2					9.3S	78.9W	67	4.5b,3.8s		
BJI	VII	23 14 52 05.6					9.20S	78.80W	66			
NEIC		Felt strongly at Chimbote. Also felt along the coast of central Peru.										
ISC	**VIII**	**15 22 53 31**±2.3					**5.85S**±.045	**81.02W**±.056	**32**±16	**4.7b,5.1s**	**188**	**7-167**
EIDC	VIII	15 22 53 27.3					5.8S	81.1W	0	4.6b,4.5L		¶97viii2285
NEIC	VIII	15 22 53 31.2					5.90S	81.03W	33	4.8b,5.1s		
BJI	VIII	15 22 53 33.0					5.88S	80.92W	39	5.9s		
HRVD	VIII	15 22 53 33.6±.2					6.22S±.02	81.36W±.02	20			
NEIC		Mw5.7(HRV).										
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c82; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}3.11±.06; $M_{\theta\theta}$−0.30±.07; $M_{\phi\phi}$−2.81±.09; $M_{r\theta}$0.50±.17; $M_{r\phi}$−2.84±.16; $M_{\theta\phi}$0.95±.06. Principal Axes: T 4.25,Plg68°,Azm86°; N −0.01, Plg4°,Azm345°; P −4.24,Plg21°,Azm254°. Best double couple: $M_0$4.2×10^{17}Nm, NP1: ϕ_S336°,δ24°,λ80°. NP2:ϕ_S167°,δ66°,λ95°.											

ISC	**VIII**	**26 14 27 00**±3.5	**5.56S**±.077	**81.31W**±.094	**26**±26	**4.5b,4.6s**	**64**	**8-149**
BJI	VIII	26 14 27 00.9	5.60S	81.30W	33			¶97viii3861
NEIC	VIII	26 14 27 00.9	5.59S	81.33W	33	4.8b,4.5s		
EIDC	VIII	26 14 27 02.7	5.6S	81.3W	27	4.1b,4.0L		
ISC	**IX**	**08 14 23 55.8**±.59	**3.4S**±.12	**81.5W**±.17	**33**	**4.1b**,3.6s	**28**	**10-138**
NEIC	IX	08 14 23 55.0	3.50S	81.66W	33	4.4b		¶97ix1234
EIDC	IX	08 14 23 57.1	3.4S	81.6W	31	3.8b,3.6s		
IGQ	**X**	**26 02 33 06.5**	**3.4S**	**81.1W**	**52**	**4.4b**		¶97x4405
EIDC	**XI**	**04 10 23 19.1**	**9.6S**	**79.0W**	**0**	3.4b,4.0L		¶97xi0615
IGQ	**XI**	**07 10 20 08.6**	**3.9S**	**81.1W**	**55**	**4.6b**		¶97xi1115
ISC	**XI**	**11 13 10 15**±3.4	**3.4S**±.10	**81.1W**±.39	**55**		**19**	**3-10**
IGQ	XI	11 13 10 07.1	3.8S	81.5W	55	4.6b		¶97xi1793

(110) Peru-Ecuador border region.

ISC	**VII**	**04 03 36 24**±4.5	**4.0S**±.22	**80.8W**±.29	**68**±46	**3.9b**	**12**	**9-138**
NEIC	VII	04 03 36 20.3	3.99S	80.82W	33			¶97vii0490
EIDC	VII	04 03 36 22.4	4.0S	80.8W	31	3.6b,3.5s		
NEIC	Poor solution.							
ISC	**VII**	**05 00 10 12**±1.2	**3.97S**±.098	**77.4W**±.34	**52**		**17**	**3-8**
IGQ	VII	05 00 10 09.3	4.1S	77.4W	52	4.5b		¶97vii0645
ISC	**VII**	**29 01 47 06**±3.0	**2.1S**±.25	**77.6W**±.26	**199**		**21**	**1-3**
IGQ	VII	29 01 47 09.0	1.9S	77.7W	175	4.3b		¶97vii4363
IGQ	**VIII**	**09 13 59 28.7**	**3.4S**	**80.3W**	**40**	**4.7b**		¶97viii1261
IGQ	**VIII**	**10 18 39 47.7**	**3.5S**	**80.4W**	**50**	**4.5b**		¶97viii1440
ISC	**VIII**	**11 12 55 08**±1.5	**2.72S**±.063	**77.72W**±.068	**62**±13	**4.8b**	**134**	**4-164**
NEIC	VIII	11 12 55 04.1	2.93S	77.81W	35	5.0b,4.1s		¶97viii1568
BJI	VIII	11 12 55 05.1	2.90S	77.80W	35			
MOS	VIII	11 12 55 05.5	3.0S	77.9W	33	5.2b		
EIDC	VIII	11 12 55 06.6	2.7S	77.6W	34	4.4b,4.1s		
IGQ	**VIII**	**11 16 14 15.6**	**3.3S**	**80.4W**	**52**	**4.2b**		¶97viii1584
IGQ	**VIII**	**12 01 39 02.4**	**2.8S**	**77.9W**	**5**	**4.1b**		¶97viii1659
IGQ	**VIII**	**19 12 30 32.7**	**3.1S**	**78.2W**	**5**	**4.1b**		¶97viii2809
IGQ	**VIII**	**21 10 56 05.9**	**4.9S**	**80.4W**	**52**	**4.5b**		¶97viii3087
ISC	**VIII**	**21 23 17 36.5**±.57	**2.44S**±.086	**77.6W**±.13	**33**	**3.9b**	**16**	**8-84**
EIDC	VIII	21 23 17 33.5	2.4S	77.5W	0	3.9b,4.1L		¶97viii3158
NEIC	VIII	21 23 17 36.1	2.46S	77.56W	33	4.3b		
NEIC	Less reliable solution.							
IGQ	**VIII**	**22 16 42 05.5**	**2.9S**	**77.9W**	**12**	**4.0b**		¶97viii3251
IGQ	**VIII**	**24 10 08 54.3**	**2.6S**	**78.0W**	**5**	**4.2b**		¶97viii3514
ISC	**VIII**	**31 06 30 13**±3.1	**4.59S**±.077	**79.9W**±.57	**28**		**20**	**3-8**
IGQ	VIII	31 06 30 04.8	5.1S	80.0W	28	4.9b		¶97viii4599
IGQ	**IX**	**01 00 32 01.9**	**2.9S**	**78.0W**	**12**	**4.0b**		¶97ix0009
ISC	**IX**	**03 23 37 55**±1.8	**3.1S**±.13	**77.1W**±.33	**25**		**15**	**2-9**
IGQ	IX	03 23 38 00.2	2.5S	77.2W	25	4.2b		¶97ix0513
IGQ	**IX**	**15 18 18 12.5**	**3.1S**	**78.1W**	**5**	**4.1b**		¶97ix2271
IGQ	**IX**	**20 18 46 52.2**	**3.2S**	**78.4W**	**12**	**4.0b**		¶97ix2987
IGQ	**IX**	**22 04 33 23.0**	**3.8S**	**77.8W**	**52**	**4.0b**		¶97ix3211
ISC	**IX**	**22 09 28 18**±1.0	**2.06S**±.096	**77.6W**±.21	**183**±6.9	**3.6b**	**27**	**1-142**
IGQ	IX	22 09 28 17.6	2.0S	77.6W	188	4.6b		¶97ix3257
EIDC	IX	22 09 28 20.9	2.2S	76.9W	217	3.4b		
IGQ	**IX**	**30 06 11 35.3**	**3.2S**	**80.0W**	**50**	**4.1b**		¶97ix5142
ISC	**X**	**13 17 14 57**±1.3	**2.72S**±.083	**77.1W**±.17	**12**		**23**	**2-9**
IGQ	X	13 17 14 56.0	2.7S	77.2W	12	4.4b		¶97x2255
IGQ	**X**	**22 00 34 16.6**	**3.2S**	**77.0W**	**26**	**4.2b**		¶97x3729
IGQ	**X**	**24 08 59 26.8**	**4.4S**	**79.7W**	**55**	**4.1b**		¶97x4133
IGQ	**X**	**28 14 27 04.6**	**1.6S**	**75.6W**	**52**	**4.1b**		¶97x4771
IGQ	**X**	**31 04 17 51.9**	**3.0S**	**78.3W**	**12**	**4.2b**		¶97x5124
IGQ	**XI**	**08 10 10 39.3**	**3.3S**	**80.7W**	**52**	**4.2b**		¶97xi1255
ISC	**XI**	**12 21 57 40.5**±.86	**4.9S**±.17	**80.3W**±.24	**33**	**4.6b**	**12**	**16-138**
EIDC	XI	12 21 57 37.8	4.9S	80.3W	0	4.6b,4.1L		¶97xi2039
NEIC	XI	12 21 57 40.4	4.89S	80.27W	33			
NEIC	Single network solution.							
ISC	**XI**	**16 18 35 06**±5.4	**2.3S**±.36	**77.5W**±.40	**160**		**20**	**1-3**
IGQ	XI	16 18 35 06.8	2.2S	77.6W	160	4.0b		¶97xi2682
IGQ	**XI**	**29 15 51 54.6**	**3.0S**	**77.9W**	**9**	**4.4b**		¶97xi5287
ISC	**XII**	**06 17 46 49**±5.9	**2.6S**±.39	**77.5W**±.43	**163**		**20**	**1-3**
IGQ	XII	06 17 46 52.1	2.3S	77.7W	163	4.1b		¶97xii1482
IGQ	**XII**	**07 03 48 30.3**	**2.9S**	**77.7W**	**17**	**4.2b**		¶97xii1600
IGQ	**XII**	**09 06 20 20.2**	**2.7S**	**77.6W**	**25**	**4.1b**		¶97xii2116
IGQ	**XII**	**11 04 21 51.2**	**4.4S**	**78.4W**	**55**	**4.2b**		¶97xii2488
IGQ	**XII**	**11 07 01 16.4**	**4.5S**	**78.4W**	**55**	**4.3b**		¶97xii2509
IGQ	**XII**	**18 02 49 00.4**	**3.9S**	**78.2W**	**49**	**4.7b**		¶97xii3702
ISC	**XII**	**31 01 42 42**±2.3	**4.0S**±.20	**79.1W**±.25	**33**	**3.5b**	**26**	**3-84**
IGQ	XII	31 01 42 22.0	5.3S	79.0W	30	4.8b		¶97xii5820
EIDC	XII	31 01 42 41.1±8.80	2.6S	77.0W	0	3.5b		
EIDC	Error ellipse is semi−major=238.8km semi−minor=191.9km azimuth=51							

(111) Northern Peru.

ISC	**VII**	**07 08 24 16.3**±.74	**6.2S**±.12	**75.9W**±.25	**137**	**3.6b**	**12**	**6-140**
NEIC	VII	07 08 24 16.0	6.25S	75.87W	137	3.5b		¶97vii1014
EIDC	VII	07 08 24 17.5	6.4S	76.0W	138	3.5b		
NEIC	Poor solution.							
ISC	**VII**	**23 14 03 28**±1.1	**6.07S**±.035	**75.92W**±.046	**15**±7.6	**5.2b,4.3s**	**273**	**5-167**
NEIC	VII	23 14 03 29.9	6.10S	75.95W	30	5.3b,4.2s		¶97vii3538
MOS	VII	23 14 03 30.7	6.1S	75.9W	33	5.5b,4.2s		
EIDC	VII	23 14 03 31.9	6.0S	75.8W	31	4.8b,4.4s		
IGQ	VII	23 14 03 33.0	6.1S	75.9W	33	5.3b		
BJI	VII	23 14 03 33.9	6.00S	75.90W	30			
ISC	**VII**	**31 04 43 22**±2.1	**5.82S**±.093	**75.4W**±.23	**45**±24	**3.7b**	**10**	**6-141**
EIDC	VII	31 04 43 17.7	6.0S	76.0W	0	3.6b,3.5L		¶97vii4675
NEIC	VII	31 04 43 22.3	5.84S	75.36W	50	4.1b		
NEIC	Less reliable solution.							
ISC	**VIII**	**09 21 19 55**±1.3	**5.52S**±.073	**76.88W**±.085	**137**±14	**4.2b**	**71**	**6-167**
NEIC	VIII	09 21 19 52.6	5.55S	76.88W	116	4.4b		¶97viii1309
EIDC	VIII	09 21 19 54.9	5.5S	76.8W	122	3.9b		
ISC	**IX**	**09 18 54 16.2**±.41	**5.80S**±.063	**76.15W**±.085	**119**±1.1*	**4.4b**	**68**	**5-167**
NEIC	IX	09 18 54 15.9	5.75S	76.28W	119	4.5b		¶97ix1425
EIDC	IX	09 18 54 17.8	5.7S	76.2W	120	3.9b		
BJI	IX	09 18 54 18.9	5.80S	76.30W	119			
IGQ	IX	09 18 54 33.4	4.7S	76.7W	55	5.1b		
IGQ	**IX**	**11 02 44 35.4**	**3.6S**	**76.9W**	**29**	**5.0b**		¶97ix1617
ISC	**X**	**28 06 15 19.2**±.37	**4.35S**±.023	**76.68W**±.024	**128**±3.1	**6.5b**	**888**	**3-178**
BJI	X	28 06 15 17.1	4.24S	76.73W	107			¶97x4719
NEIC	X	28 06 15 17.3	4.37S	76.68W	112	6.6b,6.3s		
MOS	X	28 06 15 17.4	4.3S	76.6W	111	6.8b		
EIDC	X	28 06 15 22.1	4.3S	76.6W	135	5.8b		
HRVD	X	28 06 15 28.4±.1	4.44S±.01	76.55W±.01	119±.2			
IGQ	X	28 06 15 32.4	3.6S	77.4W	80	6.5b		
NEIC	Mw7.2(HRV), Me6.7(GS). Damage.							
NEIC	Radiated energy from the P−wave first−motion solution: 2.9±0.3×10^{14}Nm/15							
NEIC	Mw 7.1 (GS). Mb 6.8 (BRK). Slight damage at Chachapoyas. Mo=6.0×10^{19}Nm (PPT).							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S355°,δ50°,λ−90°. NP2:ϕ_S175°,δ40°,λ−90°. Principal axes: T Plg5°,Azm85°; P Plg62°,Azm337°. Two events about 6.5 seconds apart. Depth from broadband displacement seismograms based on first event.							
NEIC	Moment tensor solution: s47, scale 10^{19}Nm; M_{rr}−3.81; $M_{\theta\theta}$−0.52; $M_{\phi\phi}$4.32; $M_{r\theta}$−0.87; $M_{r\phi}$1.29; $M_{\theta\phi}$−2.76. Depth 115km; Principal axes: T 5.82,Plg9°,Azm245°; N −1.74,Plg6°, Azm154°; P −4.08,Plg79°,Azm31°. Best double couple: $M_0$5.0×10^{19}Nm; NP1:ϕ_S343°,δ36°, λ−80°. NP2:ϕ_S150°,δ54°,λ−98°.							
EIDC	Multiple, same az							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c153; Mantle waves: s55,c146; Half duration: 9s8. Moment tensor: Scale 10^{19}Nm; M_{rr}−6.82±.03; $M_{\theta\theta}$0.60±.02; $M_{\phi\phi}$6.21±.03; $M_{r\theta}$−0.71±.02; $M_{r\phi}$1.52±.02; $M_{\theta\phi}$−2.64±.02. Principal Axes: T 7.46,Plg7°,Azm248°; N −0.44,Plg1°,Azm158°; P −7.01,Plg83°,Azm61°. Best double couple: $M_0$7.2×10^{19}Nm, NP1:ϕ_S339°,δ38°,λ−89°. NP2:ϕ_S158°,δ52°,λ−91°.							
ISC	**XI**	**07 14 38 17**±1.8	**3.95S**±.096	**75.6W**±.24	**51**		**23**	**4-8**
IGQ	XI	07 14 38 15.7	4.0S	75.5W	51	4.6b		¶97xi1135
ISC	**XI**	**22 21 36 45.8**±.77	**4.69S**±.095	**76.8W**±.22	**26**		**24**	**4-14**
IGQ	XI	22 21 36 43.9	4.8S	77.1W	26	4.6b		¶97xi3964
ISC	**XI**	**27 19 47 42**±2.9	**6.3S**±.21	**77.3W**±.21	**164**±33	**3.6b**	**14**	**6-139**
EIDC	XI	27 19 47 40.1	6.3S	77.2W	129	3.5b		¶97xi4924
NEIC	XI	27 19 47 40.8	6.23S	77.26W	150			
NEIC	Less reliable solution.							

(112) Peru-Brazil border region.

ISC	**VII**	**16 07 32 22**±1.4	**7.99S**±.075	**74.24W**±.066	**137**±14	**4.4b**	**116**	**5-168**
NEIC	VII	16 07 32 24.2	8.12S	74.32W	159	4.6b		¶97vii2403
EIDC	VII	16 07 32 25.6	8.2S	74.3W	159	4.1b		
BJI	VII	16 07 32 26.2	8.10S	74.30W	159			
ISC	**VII**	**29 18 59 25**±6.9	**11.2S**±.11	**70.1W**±.14	**3**±44	**4.0b**	**10**	**5-87**
EIDC	VII	29 18 59 26.4	11.2S	70.1W	0	3.9b,4.2L		¶97vii4470
NEIC	VII	29 18 59 28.5	11.23S	70.17W	33			
NEIC	Single network solution.							
ISC	**IX**	**16 02 36 34**±2.1	**8.6S**±.16	**74.4W**±.12	**147**±26	**4.3b**	**66**	**4-168**
NEIC	IX	16 02 36 34.0	8.65S	74.46W	153	4.5b		¶97ix2316
EIDC	IX	16 02 36 34.7	8.7S	74.5W	145	4.2b		
ISC	**XI**	**10 21 05 47.0**±.90	**9.57S**±.066	**73.9W**±.13	**36**±14	**4.1b**	**33**	**4-152**
EIDC	XI	10 21 05 43.8	9.6S	74.1W	0	4.1b,4.1L		¶97xi1674
NEIC	XI	10 21 05 46.4	9.57S	73.93W	33			
IGQ	XI	10 21 07 43.5	1.8S	77.7W	12	4.7b		
NEIC	Less reliable solution.							
ISC	**XII**	**22 16 42 10.5**±.82	**8.7S**±.12	**74.8W**±.15	**33**	**4.1b**	**7**	**4-77**
EIDC	XII	22 16 42 22.8±8.59	9.7S	75.3W	165±113.0	3.7b		¶97xii4451
EIDC	Error ellipse is semi−major=125.1km semi−minor=23.6km azimuth=31							

(114) Off coast of Peru.

ISC	**VIII**	**21 14 39 43**±1.9	**16.3S**±.29	**75.6W**±.22	**33**	**4.0b**	**7**	**4-95**
EIDC	VIII	21 14 39 38.7	16.6S	75.7W	0	4.0b,4.1L		¶97viii3107
NEIC	VIII	21 14 39 42.1	16.51S	75.65W	33			
NEIC	Poor solution.							
ISC	**IX**	**30 19 36 54**±1.6	**13.22S**±.069	**77.3W**±.10	**37**±14	**4.4b**	**52**	**1-174**
EIDC	IX	30 19 36 50.0	13.2S	77.2W	0	4.4b,4.2L		¶97ix5301
NEIC	IX	30 19 36 53.2	13.19S	77.23W	33	4.5b		
BJI	IX	30 19 36 58.2	13.20S	77.20W	33			
ISC	**X**	**25 20 55 31**±1.7	**16.61S**±.063	**75.22W**±.093	**44**±16	**4.4b**	**47**	**4-174**
NEIC	X	25 20 55 30.0	16.55S	75.21W	37	4.6b		¶97x4373
EIDC	X	25 20 55 31.6	16.6S	75.2W	34	4.1b		
BJI	X	25 20 55 33.0	16.60S	75.20W	37			
EIDC	Multiple, mixed az							
ISC	**XII**	**31 13 47 56**±3.5	**17.3S**±.50	**74.3W**±.26	**69**	3.5b	**4**	**6-86**
EIDC	XII	31 13 47 57.6	17.3S	74.2W	69±68.1	4.0L,3.3b		¶97xii5909
ISC	Poorly determined							
EIDC	Origin time error = 10.21Error ellipse is semi−major=154.4km semi−minor=25.6km azimuth=38							

(115) Near coast of Peru.

ISC	**VII**	**03 06 34 31**±1.6	**16.3S**±.15	**73.6W**±.12	**67**±13	**3.9b**	**18**	**2-135**
NEIC	VII	03 06 34 31.1	16.24S	73.57W	62			¶97vii0368
EIDC	VII	03 06 34 33.1	16.2S	73.6W	67	3.8b,2.9s		
NEIC	Less reliable solution.							
ISC	**VII**	**15 19 27 14**±1.3	**16.9S**±.10	**72.57W**±.097	**79**±11	**4.3b**	**35**	**1-153**
NEIC	VII	15 19 27 13.1	16.88S	72.63W	73	4.3b		¶97vii2341
EIDC	VII	15 19 27 16.7	16.8S	72.5W	82	4.0b,3.9s		
NEIC	Less reliable solution.							
ISC	**VIII**	**04 06 03 37**±1.1	**13.4S**±.13	**76.8W**±.16	**33**	**3.7b**	**8**	**1-94**
EIDC	VIII	04 06 03 33.9	13.4S	76.9W	0	3.9b,4.2L		¶97viii0463
NEIC	VIII	04 06 03 36.5	13.41S	76.73W	33			
NEIC	Less reliable solution.							
ISC	**VIII**	**12 11 31 26.6**±.94	**16.53S**±.043	**73.33W**±.047	**47**±9.1	**5.1b,4.4s**	**187**	**2-172**
NEIC	VIII	12 11 31 27.3	16.56S	73.40W	55	5.3b		¶97viii1738
BJI	VIII	12 11 31 27.8	16.66S	73.07W	52	5.2s		
EIDC	VIII	12 11 31 27.8	16.5S	73.2W	50	4.8b,3.8s		
MOS	VIII	12 11 31 31.2	16.3S	73.2W	79	5.3b		
NEIC	Felt I=II MM at Arequipa.							
ISC	**IX**	**18 00 54 17**±1.4	**17.5S**±.15	**70.9W**±.13	**100**±15	**3.8b**	**9**	**1-80**
NEIC	IX	18 00 54 16.3	17.48S	70.83W	97			¶97ix2588
EIDC	IX	18 00 54 20.1	17.6S	70.6W	117	3.6b		
NEIC	Less reliable solution.							
ISC	**IX**	**18 20 53 43**±2.2	**15.5S**±.16	**75.6W**±.18	**62**±20	**3.8b**	**8**	**4-101**
NEIC	IX	18 20 53 43.4	15.50S	75.57W	61			¶97ix2714
EIDC	IX	18 20 53 44.8	15.5S	75.6W	60	3.5b,4.3L		
NEIC	Less reliable solution.							
ISC	**X**	**01 00 52 53**±1.2	**16.88S**±.077	**72.69W**±.068	**60**±10	**4.7b**	**83**	**1-172**
BJI	X	01 00 52 49.9	16.90S	72.70W	29			¶97x0003
NEIC	X	01 00 52 49.9	16.87S	72.71W	29	4.8b,4.3s		
EIDC	X	01 00 52 52.4	16.8S	72.4W	35	4.4b,4.2L		
ISC	**X**	**10 17 32 13**±3.0	**16.0S**±.14	**74.5W**±.20	**87**±28	**4.1b**	**16**	**3-134**
NEIC	X	10 17 32 14.4	16.00S	74.35W	100	4.0b		¶97x1781
EIDC	X	10 17 32 17.2	16.1S	74.4W	116	3.9b		
NEIC	Less reliable solution.							
ISC	**X**	**15 02 54 19.8**±.93	**16.10S**±.049	**73.60W**±.045	**46**±8.2	**5.7b,6.1s**	**358**	**2-176**
NEIC	X	15 02 54 20.8	16.12S	73.59W	56	5.7b		¶97x2545
BJI	X	15 02 54 21.0	15.64S	73.66W	38	7.0s		
MOS	X	15 02 54 21.2	15.8S	73.6W	47	6.0b		
EIDC	X	15 02 54 24.6	16.0S	73.6W	76	5.2b,6.0s		
NEIC	Felt I=III MM at Arequipa.							

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**23 09 54 22**±1.4	**15.28S**±.086	**75.2W**±.10	**37**±13	**4.5b,4.0s**	**53**	**4-174**
EIDC	X	23 09 54 18.0	15.4S	75.3W	0	4.5b,4.0s		¶97x3963
NEIC	X	23 09 54 21.6	15.29S	75.23W	33	4.6b		
ISC	**XI**	**01 13 16 27**±1.3	**12.41S**±.087	**77.0W**±.15	**75**±11	**4.5b**	**46**	**0-147**
NEIC	XI	01 13 16 25.5	12.43S	77.09W	63	4.9b		¶97xi0082
EIDC	XI	01 13 16 27.3	12.3S	76.8W	65	4.0b,3.8s		
NEIC	Less reliable solution.							
ISC	**XI**	**04 00 28 55**±3.9	**16.94S**±.064	**72.87W**±.066	**9**±23	**5.1b,4.4s**	**144**	**1-172**
NEIC	XI	04 00 28 58.0	17.00S	72.98W	33	5.1b,4.4s		¶97xi0543
EIDC	XI	04 00 28 59.1	16.9S	72.8W	30	4.7b,4.4s		
BJI	XI	04 00 29 04.5	17.00S	73.00W	33			
ISC	**XI**	**04 03 10 02**±1.5	**17.1S**±.13	**72.5W**±.10	**65**±12	**4.0b**	**26**	**1-153**
NEIC	XI	04 03 09 58.4	17.24S	72.56W	33	4.7b		¶97xi0562
EIDC	XI	04 03 10 00.7	17.1S	72.3W	33	4.0b,4.2L		
NEIC	Less reliable solution.							
ISC	**XI**	**08 00 16 30.0**±.65	**17.4S**±.12	**72.4W**±.11	**33**	**4.0b**,3.7s	**28**	**1-153**
NEIC	XI	08 00 16 36.8	17.40S	72.41W	100	4.2b		¶97xi1189
EIDC	XI	08 00 16 37.4	17.3S	72.4W	92	3.7b,3.7s		
NEIC	Less reliable solution.							
ISC	**XI**	**21 07 03 31.8**±.92	**15.61S**±.044	**74.41W**±.057	**56**±9.0	**5.0b,4.5s**	**132**	**3-173**
BJI	XI	21 07 03 29.9	15.54S	74.05W	36			¶97xi3613
NEIC	XI	21 07 03 30.7	15.61S	74.46W	47	5.1b,4.5s		
EIDC	XI	21 07 03 32.7	15.7S	74.5W	51	4.5b,4.5s		
HRVD	XI	21 07 03 39.3±.8	15.64S±.07	74.77W±.06	51±4.7			
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c34; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.08±.06; $M_{\theta\theta}$−0.47±.08; $M_{\phi\phi}$0.40±.11; $M_{r\theta}$0.55±.10; $M_{r\phi}$−0.23±.09; $M_{\theta\phi}$1.37±.06. Principal Axes: T 1.41,Plg6°,Azm307°; N 0.25, Plg71°,Azm56°; P −1.66,Plg18°,Azm215°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S353°,δ73°,λ−171°. NP2:ϕ_S260°,δ82°,λ−18°.							
BOG	Felt at Cali and on the Pacific Coast of Colombia							
ISC	**XI**	**23 11 35 46**±2.3	**15.2S**±.19	**75.4W**±.21	**67**±23	**4.2b**	**7**	**3-150**
NEIC	XI	23 11 35 43.9	15.21S	75.40W	48			¶97xi4107
EIDC	XI	23 11 35 46.4	15.3S	75.4W	47	4.0b,4.2L		
NEIC	Less reliable solution.							
EIDC	**XI**	**27 13 21 00.5**	**12.1S**	**77.9W**	**485**	**2.7b**		**¶97xi4868**
ISC	**XII**	**07 04 22 06**±1.7	**16.4S**±.16	**73.6W**±.13	**70**±14	**3.9b**	**17**	**2-145**
NEIC	XII	07 04 22 07.3	16.35S	73.50W	85	4.1b		¶97xii1611
EIDC	XII	07 04 22 08.8±1.20	16.4S	73.5W	82±9.4	3.7b,3.0s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=30.2km semi−minor=17.6km azimuth=32							
ISC	**XII**	**10 07 46 24**±1.5	**16.0S**±.13	**73.6W**±.12	**69**±14	**4.0b**	**21**	**2-152**
NEIC	XII	10 07 46 22.1	16.04S	73.71W	52	4.3b		¶97xii2311
EIDC	XII	10 07 46 24.1±.55	16.1S	73.7W	52±4.3	3.9b,3.0s		
BJI	XII	10 07 46 28.1	16.00S	73.70W	52			
NEIC	Less reliable solution.							
NEIC	Felt I=II MM at Arequipa.							
EIDC	Error ellipse is semi−major=21.2km semi−minor=14.1km azimuth=55							
ISC	**XII**	**12 07 15 07**±1.1	**13.68S**±.040	**76.32W**±.063	**41**±10	**5.3b,4.8s**	**178**	**2-173**
EIDC	XII	12 07 15 02.8±.60	13.7S	76.4W	0	5.1b,4.8s		¶97xii2711
NEIC	XII	12 07 15 06.8	13.70S	76.37W	38	5.4b,4.9s		
BJI	XII	12 07 15 08.4	13.97S	76.14W	45			
MOS	XII	12 07 15 08.5	13.6S	76.3W	55	5.6b		
HRVD	XII	12 07 15 09.9±.4	13.68S±.06	76.86W±.07	44±4.4			
EIDC	Error ellipse is semi−major=28.0km semi−minor=14.1km azimuth=55							
NEIC	Mw5.4(HRV)							
NEIC	Felt strongly at Pisco. Also felt at Chincha Alta, Ica and Lima.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c45; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}7.78±.57; $M_{\theta\theta}$−2.99±.76; $M_{\phi\phi}$−4.79±.97; $M_{r\theta}$−0.87±1.16; $M_{r\phi}$−8.40±1.22; $M_{\theta\phi}$6.74±.68. Principal Axes: T 13.0,Plg56°,Azm117°; N −0.4,Plg28°,Azm336°; P −12.6,Plg18°,Azm236°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S291°,δ36°,λ39°. NP2:ϕ_S168°,δ68°,λ120°.							
ISC	**XII**	**12 15 45 21**±1.8	**15.0S**±.19	**74.2W**±.17	**99**±20	**3.9b**	**8**	**4-133**
NEIC	XII	12 15 45 21.2	15.05S	74.18W	100			¶97xii2774
EIDC	XII	12 15 45 24.1±5.60	15.0S	74.1W	113±53.6	3.4b		
NEIC	Poor solution.							
EIDC	Error ellipse is semi−major=46.5km semi−minor=29.8km azimuth=60							
ISC	**XII**	**30 14 54 33**±1.7	**17.0S**±.17	**71.4W**±.13	**124**±18	**3.8b**	**15**	**3-153**
NEIC	XII	30 14 54 33.2	16.98S	71.39W	128	3.9b		¶97xii5749
EIDC	XII	30 14 54 33.7±2.14	17.1S	71.4W	117±19.0	3.7b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=26.9km semi−minor=14.6km azimuth=18							

(116) Peru.

ISC	**VII**	**03 23 28 36.0**±.91	**9.5S**±.11	**75.0W**±.16	**33**	**3.8b**	**9**	**3-139**
EIDC	VII	03 23 28 33.7	9.5S	75.2W	0	3.7b,3.8L		¶97vii0466
NEIC	VII	03 23 28 36.2	9.47S	74.98W	33			
NEIC	Less reliable solution.							
ISC	**VII**	**27 17 10 14.0**±.85	**14.10S**±.067	**73.58W**±.062	**96**±8.2	**4.7b**	**132**	**3-172**
NEIC	VII	27 17 10 13.8	14.09S	73.60W	93	4.9b		¶97vii4141
EIDC	VII	27 17 10 14.8	14.1S	73.6W	92	4.4b,3.8s		
BJI	VII	27 17 10 15.1	13.67S	73.75W	88			
HRVD	VII	27 17 10 20.1±1.0	14.18S±.08	73.57W±.09	118±2.9			
NEIC	Mw5.2(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.66±.43; $M_{\theta\theta}$6.86±.82; $M_{\phi\phi}$−1.20±1.01; $M_{r\theta}$0.68±.48; $M_{r\phi}$−0.95±.72; $M_{\theta\phi}$2.64±.61. Principal Axes: T 7.66,Plg2°,Azm344°; N −1.69, Plg15°,Azm74°; P −5.97,Plg74°,Azm248°. Best double couple: $M_0$6.8×10^{16}Nm, NP1:ϕ_S58°, δ45°,λ−112°. NP2:ϕ_S268°,δ49°,λ−69°.							
ISC	**VIII**	**08 06 44 42**±1.6	**14.33S**±.097	**72.2W**±.12	**131**±15	**4.0b**	**42**	**4-171**
NEIC	VIII	08 06 44 38.6	14.40S	72.42W	99	4.3b		¶97viii1066
EIDC	VIII	08 06 44 39.5	14.5S	72.6W	94	3.9b		
NEIC	Less reliable solution.							
ISC	**VIII**	**15 17 59 55.8**±.67	**9.2S**±.12	**76.9W**±.18	**100**	**3.8b**	**15**	**3-138**
EIDC	VIII	15 17 59 54.3	9.2S	76.4W	76	3.6b,4.0L		¶97viii2247
NEIC	VIII	15 17 59 55.5	9.18S	76.75W	100	4.3b		
NEIC	Less reliable solution.							
ISC	**VIII**	**31 06 12 59.9**±.82	**8.3S**±.12	**75.3W**±.15	**150**	**3.8b**	**7**	**4-72**
NEIC	VIII	31 06 12 59.8	8.34S	75.28W	150			¶97viii4596
EIDC	VIII	31 06 13 00.9	8.4S	75.3W	142	3.6b		
NEIC	Single network solution.							
ISC	**IX**	**05 19 27 18**±3.0	**8.1S**±.22	**75.9W**±.18	**137**±33	**3.7b**	**11**	**4-139**
NEIC	IX	05 19 27 14.4	7.87S	75.77W	100			¶97ix0787
EIDC	IX	05 19 27 17.5	8.0S	75.9W	114	3.6b		
NEIC	Less reliable solution.							
ISC	**IX**	**08 15 33 24**±1.7	**14.0S**±.13	**71.7W**±.11	**102**±20	**4.2b**	**43**	**2-170**
EIDC	IX	08 15 33 19.7	13.8S	71.9W	50	3.9b,4.3s		¶97ix1242
NEIC	IX	08 15 33 23.0	13.91S	71.72W	87	4.3b		
BJI	IX	08 15 33 26.0	13.90S	71.70W	87			
NEIC	Less reliable solution.							
ISC	**X**	**01 19 08 23**±7.2	**11.3S**±.76	**75.3W**±.87	**33**	**4.0b**	**7**	**2-147**
EIDC	X	01 19 08 20.3	11.2S	75.1W	0	4.0b		¶97x0141
ISC	Poorly determined							
ISC	**X**	**12 05 55 31**±1.2	**10.82S**±.081	**74.20W**±.078	**49**±13	**4.4b,4.1s**	**73**	**3-171**
EIDC	X	12 05 55 25.3	10.9S	74.3W	0	4.2b,4.2s		¶97x1997
NEIC	X	12 05 55 28.9	10.84S	74.29W	33	4.8b,4.3s		
BJI	X	12 05 55 33.9	10.80S	74.30W	33	5.8s		
EIDC	**XI**	**05 12 35 51.9**	**12.5S**	**74.4W**	**0**	4.2b,3.9L		**¶97xi0799**
ISC	**XI**	**27 09 09 27**±4.2	**11.9S**±.63	**74.5W**±.30	**43**±57	**4.1b**	**7**	**2-94**
EIDC	XI	27 09 09 24.8	11.4S	74.1W	0	4.1b,4.0L		¶97xi4836
NEIC	XI	27 09 09 27.1	11.56S	74.16W	33			
NEIC	Poor solution.							
ISC	**XII**	**14 10 44 44.7**±.78	**9.22S**±.099	**75.1W**±.17	**33**	**3.7b**	**13**	**3-151**
EIDC	XII	14 10 44 41.9±1.11	9.2S	75.2W	0	3.6b,3.7L		¶97xii3134
NEIC	XII	14 10 44 44.3	9.22S	75.08W	33	3.7b		
EIDC	Error ellipse is semi−major=38.4km semi−minor=16.7km azimuth=90							
NEIC	Less reliable solution.							
ISC	**XII**	**18 19 27 45**±2.6	**8.9S**±.16	**76.1W**±.13	**86**±28	**4.4b**	**61**	**3-169**
EIDC	XII	18 19 27 36.0±.72	8.7S	75.8W	0	4.3b,4.0s		¶97xii3810
NEIC	XII	18 19 27 39.6	8.76S	75.95W	33	4.6b		
BJI	XII	18 19 27 45.6	8.70S	75.90W	33			
EIDC	Error ellipse is semi−major=62.7km semi−minor=18.2km azimuth=65							
ISC	**XII**	**18 20 05 05.7**±.64	**8.88S**±.099	**75.8W**±.12	**33**	**4.0b**,3.7s	**20**	**3-152**
NEIC	XII	18 20 05 05.0	8.84S	75.83W	33	3.6b		¶97xii3816
EIDC	XII	18 20 05 06.0±.72	8.9S	75.8W	23±5.5	3.9b,3.4L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=34.0km semi−minor=15.0km azimuth=48							

(117) Southern Peru.

ISC	**VII**	**15 12 32 46.7**±.86	**15.97S**±.075	**72.73W**±.071	**108**±8.0	**4.5b**	**87**	**1-172**
NEIC	VII	15 12 32 46.1	15.87S	72.77W	97	4.7b		¶97vii2303
EIDC	VII	15 12 32 46.8	15.9S	72.8W	97	4.3b,3.9s		
BJI	VII	15 12 32 47.4	16.41S	72.78W	95			
ISC	**VIII**	**10 04 09 37**±1.4	**15.1S**±.37	**72.3W**±.24	**144**±16	**3.2b**	**8**	**4-67**
NEIC	VIII	10 04 09 38.2	15.04S	72.13W	156			¶97viii1349
EIDC	VIII	10 04 09 40.9	14.8S	71.8W	149	3.0b		
NEIC	Poor solution.							
ISC	**VIII**	**31 13 41 40**±1.4	**15.2S**±.15	**72.1W**±.13	**126**±14	**3.8b**	**18**	**4-152**
NEIC	VIII	31 13 41 39.6	15.18S	72.11W	122	3.7b		¶97viii4659
EIDC	VIII	31 13 41 41.0	15.1S	72.0W	117	3.7b		
NEIC	Less reliable solution.							
ISC	**X**	**12 15 08 37**±1.1	**16.1S**±.15	**70.0W**±.12	**204**±9.5	**4.1b**	**28**	**2-154**
NEIC	X	12 15 08 26.7	16.06S	70.12W	100	4.0b		¶97x2061
EIDC	X	12 15 08 31.5	16.1S	70.1W	133	4.0b		
NEIC	Less reliable solution.							
ISC	**X**	**26 16 32 26.9**±.90	**15.3S**±.26	**70.3W**±.14	**221**±13	3.9b	**10**	**2-137**
NEIC	X	26 16 32 26.6	15.11S	70.14W	200			¶97x4497
EIDC	X	26 16 32 28.9	15.0S	69.9W	207	3.5b		
NEIC	Less reliable solution.							
ISC	**X**	**27 06 44 18**±1.2	**15.3S**±.15	**73.4W**±.13	**104**±12	**4.1b**	**22**	**2-151**
NEIC	X	27 06 44 18.1	15.27S	73.39W	108	4.3b		¶97x4581
EIDC	X	27 06 44 19.5	15.3S	73.4W	105	3.9b		
NEIC	Less reliable solution.							
EIDC	**XII**	**29 19 20 48.4**	**16.4S**	**71.6W**	**488**±99.7	**3.0b**		**23-147**
								¶97xii5622
EIDC	Origin time error = 10.23Error ellipse is semi−major=111.0km semi−minor=29.9km azimuth=29							

(118) Peru-Bolivia border region.

ISC	**VII**	**31 04 52 28.7**±.79	**16.38S**±.080	**69.74W**±.084	**201**±7.7	**4.1b**	**43**	**2-169**
NEIC	VII	31 04 52 28.1	16.37S	69.76W	196	4.4b		¶97vii4677
EIDC	VII	31 04 52 30.0	16.4S	69.6W	203	3.9b		
BJI	VII	31 04 52 31.1	16.40S	69.70W	196			
ISC	**VIII**	**18 00 13 55.2**±.88	**13.33S**±.099	**68.9W**±.14	**100**	**3.8b**	**9**	**3-140**
EIDC	VIII	18 00 13 53.4	13.1S	69.0W	61	3.4b,3.8L		¶97viii2601
NEIC	VIII	18 00 13 55.3	13.35S	68.87W	100			
NEIC	Less reliable solution.							
ISC	**VIII**	**29 08 18 34.6**±.93	**15.7S**±.15	**69.4W**±.13	**269**±11	**3.6b**	**14**	**1-138**
NEIC	VIII	29 08 18 33.1	15.64S	69.41W	250	3.9b		¶97viii4251
EIDC	VIII	29 08 18 35.2	15.6S	69.3W	259	3.4b		
NEIC	Less reliable solution.							
ISC	**IX**	**01 21 43 03**±6.1	**18.0S**±.78	**69.7W**±.24	**162**±36	4.7b	**9**	**2-68**
NEIC	IX	01 21 43 01.3	18.07S	69.71W	150			¶97ix0170
EIDC	IX	01 21 43 03.0	17.9S	69.5W	143	4.2b		
NEIC	Poor solution.							
ISC	**IX**	**14 18 38 43**±1.0	**16.9S**±.11	**69.72W**±.098	**121**±12	**4.6b**	**54**	**2-169**
NEIC	IX	14 18 38 42.6	16.89S	69.71W	116	4.8b		¶97ix2158
BJI	IX	14 18 38 44.6	16.80S	69.70W	116			
EIDC	IX	14 18 38 46.7	17.1S	69.8W	141	4.1b		
ISC	**IX**	**24 20 16 39**±1.7	**17.7S**±.12	**69.4W**±.16	**155**±12	**4.3b**	**15**	**2-87**
NEIC	IX	24 20 16 38.9	17.67S	69.43W	150	4.3b		¶97ix3626
EIDC	IX	24 20 16 40.0	17.7S	69.5W	148	4.0b		
NEIC	Less reliable solution.							
ISC	**XI**	**25 14 11 20**±1.2	**16.8S**±.18	**68.5W**±.19	**219**±11	**3.5b**	**7**	**1-87**
NEIC	XI	25 14 11 19.2	16.80S	68.48W	213			¶97xi4531
EIDC	XI	25 14 11 20.3	16.8S	68.6W	207	3.3b		
NEIC	Poor solution.							
ISC	**XI**	**28 22 53 42.6**±.31	**13.77S**±.027	**68.80W**±.030	**600**±4.4	**6.3b**	**765**	**3-175**
BJI	XI	28 22 53 41.4	13.77S	68.81W	584			¶97xi5151
NEIC	XI	28 22 53 41.5	13.74S	68.79W	586	6.4b		
MOS	XI	28 22 53 42.6	13.8S	68.9W	600	6.7b		
HRVD	XI	28 22 53 46.8±.1	13.70S±.01	68.90W±.01	601±.6			
NEIC	Mw6.7(HRV), Me6.5(GS).							
NEIC	Mw 6.6 (GS). Mb 6.3 (BRK).							
NEIC	Radiated energy from the P−wave first−motion solution: 1.3±0.3×10^{14}Nm/19							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S118°,δ87°,λ−90°. NP2:ϕ_S298°,δ3°,λ−90°. Principal axes: T Plg42°,Azm208°; P Plg48°,Azm28°. Depth from broadband displacement seismograms.							
NEIC	Moment tensor solution: s47, scale 10^{18}Nm; M_{rr}−0.40; $M_{\theta\theta}$−0.40; $M_{\phi\phi}$0.80; $M_{r\theta}$−9.20; $M_{r\phi}$4.10; $M_{\theta\phi}$−0.80. Depth 589km; Principal axes: T 10.1,Plg44°,Azm209°; N 0.0,Plg5°, Azm114°; P −10.1,Plg46°,Azm18°. Best double couple: $M_0$1.0×10^{19}Nm; NP1:ϕ_S12°,δ6°, λ−12°. NP2:ϕ_S114°,δ89°,λ−95°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c106; Mantle waves: s41,c84; Half duration: 5s0. Moment tensor: Scale 10^{18}Nm; M_{rr}−1.11±.05; $M_{\theta\theta}$1.89±.06; $M_{\phi\phi}$−0.78±.07; $M_{r\theta}$−9.09±.05; $M_{r\phi}$5.20±.06; $M_{\theta\phi}$1.14±.06. Principal Axes: T 10.2,Plg42°,Azm199°; N 0.8,Plg9°,Azm298°; P −11.0,Plg46°,Azm38°. Best double couple: $M_0$1.1×10^{19}Nm, NP1:ϕ_S220°,δ10°,λ−168°. NP2:ϕ_S118°,δ88°,λ−81°.							

ISC	**XII**	**06 16 58 52**±4.1	**16.3S**±.80	**69.4W**±.45	**180**±13	**3.9b**	**10**	**1-89**
NEIC	XII	06 16 58 45.0	17.26S	69.95W	150	4.5b		**¶97xii1469**
EIDC	XII	06 16 58 49.9±6.31	16.9S	69.7W	165±33.5	3.6b		

NEIC Poor solution.
EIDC Error ellipse is semi−major=103.5km semi−minor=22.7km azimuth=29

(120) Bolivia.

ISC	**VIII**	**20 01 45 43.1**±.91	**18.06S**±.082	**63.2W**±.13	**33**	**3.8b**	**12**	**5-135**	
EIDC	VIII	20 01 45 40.4	17.8S	63.1W	0	3.8b,4.2L			**¶97viii2893**
NEIC	VIII	20 01 45 44.0	17.76S	63.24W	33				

NEIC Poor solution.

ISC	**IX**	**04 21 23 28.3**±.98	**17.60S**±.078	**68.89W**±.099	**168**±8.8	**4.2b**	**34**	**1-150**	
NEIC	IX	04 21 23 26.1	17.67S	69.09W	150	4.7b			**¶97ix0638**
EIDC	IX	04 21 23 28.5	17.6S	69.0W	158	4.0b			

NEIC Less reliable solution.

ISC	**X**	**17 08 46 30.4**±.96	**19.00S**±.078	**65.9W**±.12	**64**±11	**4.0b**	**18**	**2-90**	
EIDC	X	17 08 46 30.8	19.0S	66.0W	62	3.6b,3.5s			**¶97x2949**

(121) Off coast of Northern Chile.

ISC	**VII**	**10 14 55 50.0**±.23	**23.05S**±.037	**71.09W**±.052	**47**±1.6*	**5.0b,5.3s**	**154**	**5-174**	
BJI	VII	10 14 55 49.4	22.70S	70.90W	33	5.9s			**¶97vii1526**
NEIC	VII	10 14 55 49.4	22.73S	70.89W	33	5.1b,5.3s			
HRVD	VII	10 14 55 52.6±.1	22.95S±.02	71.25W±.02	15				
EIDC	VII	10 14 55 53.3	22.7S	71.0W	53	4.5b,5.5s			

NEIC Mw5.9(HRV).
NEIC Felt I=IV MM at Mejillones and III MM at Maria Elena and Michilla.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c102; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}4.07±.07; $M_{\theta\theta}$−0.07±.09; $M_{\phi\phi}$−4.00±.12; $M_{r\theta}$−0.29±.22; $M_{r\phi}$−6.05±.24; $M_{\theta\phi}$−0.63±.07. Principal Axes: T 7.31,Plg62°,Azm89°; N 0.00, Plg3°,Azm185°; P −7.30,Plg28°,Azm276°. Best double couple: $M_0$7.3×10^{17}Nm, NP1:ϕ_S14°, δ17°,λ100°. NP2:ϕ_S184°,δ73°,λ87°.

ISC	**VIII**	**11 15 19 01**±2.6	**24.2S**±.11	**71.0W**±.19	**40**±25	**3.7b**	**11**	**5-130**	
EIDC	VIII	11 15 18 58.0	24.3S	70.7W	0	3.9L,3.7b			**¶97viii1578**
NEIC	VIII	11 15 19 00.6	24.23S	70.66W	33				

NEIC Less reliable solution.
NEIC Felt I=II MM at Antofagasta.

ISC	**VIII**	**21 01 42 41**±1.6	**18.68S**±.099	**71.00W**±.096	**67**±14	**4.0b**	**27**	**3-151**	
EIDC	VIII	21 01 42 38.6	18.6S	71.2W	31	4.0b,3.6s			**¶97viii3043**
NEIC	VIII	21 01 42 41.4	18.62S	71.01W	71	4.2b			

NEIC Less reliable solution.

EIDC	**XI**	**12 01 03 09.7**	**24.0S**	**74.9W**	**0**	4.2L,3.7b			**¶97xi1911**
ISC	**XII**	**03 09 12 29**±1.6	**26.70S**±.085	**71.3W**±.16	**86**±18	**4.0b**	**26**	**3-127**	
EIDC	XII	03 09 12 24.8±1.43	27.0S	70.5W	0	3.5L,3.9b			**¶97xii0394**
NEIC	XII	03 09 12 32.3	26.52S	70.71W	70				

EIDC Error ellipse is semi−major=47.7km semi−minor=29.9km azimuth=133
NEIC Less reliable solution.

ISC	**XII**	**13 10 33 36**±1.3	**18.4S**±.18	**71.9W**±.21	**33**	**3.3b**	**4**	**4-87**	
EIDC	XII	13 10 33 33.1±1.40	18.4S	71.9W	0	3.2b,2.8L			**¶97xii2934**

ISC Poorly determined
EIDC Error ellipse is semi−major=44.2km semi−minor=28.2km azimuth=84

(122) Near coast of Northern Chile.

ISC	**VII**	**22 11 56 30**±1.4	**20.0S**±.14	**70.6W**±.16	**33**	3.5b	**8**	**4-73**	
EIDC	VII	22 11 56 27.8	19.8S	70.6W	0	4.3L,3.5b			**¶97vii3370**
NEIC	VII	22 11 56 29.9	19.93S	70.56W	33				

NEIC Poor solution.

ISC	**VII**	**29 18 57 37**±2.5	**28.0S**±.15	**71.6W**±.22	**33**		**18**	**3-25**	
NEIC	VII	29 18 57 40.1	28.17S	71.12W	33				**¶97vii4469**

NEIC Less reliable solution.

ISC	**VIII**	**24 23 56 53**±2.1	**18.3S**±.17	**70.3W**±.18	**95**±24	**3.9b**	**6**	**3-88**	
NEIC	VIII	24 23 56 53.4	18.30S	70.43W	100	3.7b			**¶97viii3607**
EIDC	VIII	24 23 56 54.2	18.3S	70.4W	94	3.7b			

NEIC Less reliable solution.
NEIC Felt I=III MM at Arica.

ISC	**VIII**	**29 06 11 13**±1.1	**19.7S**±.13	**70.7W**±.15	**100**	**3.3b**	**8**	**4-134**	
NEIC	VIII	29 06 11 14.5	19.76S	70.46W	100				**¶97viii4243**
EIDC	VIII	29 06 11 16.1	19.7S	70.4W	100	3.1b			

NEIC Poor solution.

ISC	**IX**	**07 20 10 44**±4.2	**24.37S**±.091	**70.4W**±.18	**28**±33	**4.0b**	**13**	**6-163**	
NEIC	IX	07 20 10 44.6	24.34S	70.45W	33	4.6b			**¶97ix1123**
EIDC	IX	07 20 10 49.6	24.4S	70.3W	61	3.6b,4.0L			

NEIC Less reliable solution.

EIDC	**IX**	**09 19 02 37.3**	**26.6S**	**70.6W**	**36**	3.6b,3.0s			**¶97ix1430**
ISC	**IX**	**30 10 24 40**±1.5	**27.55S**±.078	**71.2W**±.13	**44**±15	**4.0b**	**31**	**5-148**	
NEIC	IX	30 10 24 39.3	27.42S	71.09W	33				**¶97ix5200**
EIDC	IX	30 10 24 50.9	27.2S	70.8W	117	3.7b			

NEIC Less reliable solution.
NEIC Felt I=III MM at Caldera and Copiapo; II MM at Tierra Amarilla.

ISC	**X**	**10 03 24 39**±1.6	**19.8S**±.18	**70.1W**±.19	**33**	**4.1b**	**8**	**4-85**	
EIDC	X	10 03 24 36.6	19.8S	69.9W	0	4.1b,4.0L			**¶97x1685**
EIDC	**X**	**12 00 03 43.8**	**18.2S**	**70.5W**	**0**	**4.1b**			**¶97x1960**
ISC	**X**	**13 22 24 16**±1.9	**23.44S**±.094	**70.6W**±.15	**71**±19	**3.8b**	**13**	**5-127**	
NEIC	X	13 22 24 18.0	23.39S	70.47W	100	3.8b			**¶97x2295**
EIDC	X	13 22 24 20.4	23.4S	70.5W	107	3.7b			

NEIC Less reliable solution.

ISC	**X**	**14 07 40 12**±2.4	**26.3S**±.13	**70.9W**±.23	**73**±22	**3.5b**	**12**	**3-147**	
EIDC	X	14 07 40 02.7	26.5S	71.1W	0	3.8b,3.3L			**¶97x2356**
NEIC	X	14 07 40 06.7	26.46S	71.06W	33				

NEIC Less reliable solution.

ISC	**X**	**19 11 10 15**±1.3	**24.95S**±.061	**70.46W**±.099	**60**±13	**4.5b,4.3s**	**57**	**4-168**	
EIDC	X	19 11 10 08.7	25.1S	70.6W	0	4.5b,4.5s			**¶97x3336**
NEIC	X	19 11 10 12.0	24.87S	70.55W	33	4.6b,4.2s			
BJI	X	19 11 10 17.0	24.90S	70.60W	33				

ISC	**X**	**19 12 03 01.8**±.94	**23.24S**±.048	**70.34W**±.067	**66**±9.2	**4.6b**	**94**	**5-169**	
EIDC	X	19 12 03 01.4	23.2S	70.4W	44	4.4b,4.1L			**¶97x3344**
BJI	X	19 12 03 03.5	23.30S	70.40W	80				
NEIC	X	19 12 03 03.5	23.27S	70.42W	80	4.9b			

ISC	**X**	**19 12 14 40**±2.1	**22.9S**±.11	**70.4W**±.17	**90**±19	**3.9b**	**13**	**5-144**	
NEIC	X	19 12 14 32.2	23.18S	70.84W	33				**¶97x3345**
EIDC	X	19 12 14 42.1	23.0S	70.4W	95	3.7b			

NEIC Less reliable solution.

ISC	**X**	**26 01 35 36.7**±.79	**26.34S**±.040	**70.15W**±.051	**45**±8.0	**5.0b,4.6s**	**146**	**3-172**	
EIDC	X	26 01 35 36.6	26.3S	70.1W	32	4.6b,4.5s			**¶97x4400**
BJI	X	26 01 35 38.2	26.30S	70.20W	58				
NEIC	X	26 01 35 38.2	26.33S	70.15W	58	5.1b			
HRVD	X	26 01 35 46.4±.4	26.47S±.04	70.50W±.08	66±5.1				
GUC	X	26 01 36 39.1	30.95S	71.34W	28	5.0b			

NEIC Mw5.3(HRV)
NEIC Felt I=VI MM at Inca de Oro; V MM at Caldera, Copiapo, El Salvador, Paipote and Potrerillos; IV MM at Chanaral and Taltal.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c38; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.97±.50; $M_{\theta\theta}$5.98±.74; $M_{\phi\phi}$−1.01±1.04; $M_{r\theta}$2.04±.72; $M_{r\phi}$6.39±.45; $M_{\theta\phi}$−2.41±.59. Principal Axes: T 6.7,Plg1°,Azm17°; N 3.5, Plg38°,Azm287°; P −10.3,Plg52°,Azm108°. Best double couple: $M_0$8.5×10^{16}Nm, NP1: ϕ_S139°,δ56°,λ−42°. NP2:ϕ_S255°,δ57°,λ−138°.

ISC	**XI**	**24 22 13 39**±1.8	**24.87S**±.093	**70.6W**±.17	**64**±17	**4.0b**	**22**	**4-146**	
EIDC	XI	24 22 13 31.2	25.1S	70.6W	0	4.0b,3.9L			**¶97xi4396**
NEIC	XI	24 22 13 39.1	24.94S	70.66W	71	4.0b			

NEIC Less reliable solution.

ISC	**XII**	**08 04 41 29**±2.0	**22.1S**±.11	**70.2W**±.14	**85**±18	**3.9b**	**19**	**4-143**	
NEIC	XII	08 04 41 29.9	22.09S	70.15W	100	4.5b			**¶97xii1865**
EIDC	XII	08 04 41 32.3±3.36	22.0S	70.2W	108±27.3	3.7b			

NEIC Less reliable solution.
EIDC Error ellipse is semi−major=32.4km semi−minor=23.2km azimuth=42

ISC	**XII**	**09 06 32 04**±1.3	**20.9S**±.16	**70.6W**±.46	**63**	4.0b	**4**	**5-90**	
EIDC	XII	09 06 32 05.5±1.96	20.8S	70.4W	63±26.5	4.0L,3.8b			**¶97xii2118**

ISC Poorly determined
EIDC Error ellipse is semi−major=83.3km semi−minor=15.1km azimuth=106

(123) Northern Chile.

ISC	**VII**	**08 17 57 07**±1.5	**22.5S**±.11	**68.0W**±.15	**161**±12	**3.8b**	**17**	**2-132**	
NEIC	VII	08 17 57 05.5	22.55S	67.96W	141	4.0b			**¶97vii1216**
EIDC	VII	08 17 57 06.8	22.5S	67.9W	145	3.8b			

NEIC Less reliable solution.

ISC	**VII**	**11 02 32 39.9**±.90	**18.78S**±.039	**69.33W**±.048	**83**±9.0	**5.1b**	**230**	**3-172**	
BJI	VII	11 02 32 41.4	19.03S	68.60W	88	5.7s			**¶97vii1618**
NEIC	VII	11 02 32 42.2	18.86S	69.44W	106	5.1b			
EIDC	VII	11 02 32 43.6	18.9S	69.4W	106	4.9b,4.3s			
HRVD	VII	11 02 32 47.8±.4	18.93S±.04	69.71W±.05	131±1.9				

NEIC Mw5.4(HRV)
NEIC Felt I=IV MM at Arica and II MM at Pisagua. Also felt II MM at Arequipa (after ARE).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c41; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.53±.05; $M_{\theta\theta}$−0.14±.07; $M_{\phi\phi}$0.67±.08; $M_{r\theta}$0.22±.04; $M_{r\phi}$−1.42±.06; $M_{\theta\phi}$−0.23±.08. Principal Axes: T 1.67,Plg33°,Azm78°; N −0.19, Plg3°,Azm170°; P −1.48,Plg57°,Azm265°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S154°,δ12°,λ−106°. NP2:ϕ_S351°,δ78°,λ−86°.

ISC	**VII**	**13 18 10 15.3**±.88	**23.56S**±.040	**68.10W**±.050	**82**±8.7	**5.2b**	**231**	**2-169**	
MOS	VII	13 18 10 19.5	23.7S	68.2W	129	5.5b			**¶97vii2005**
NEIC	VII	13 18 10 19.9	23.63S	68.12W	125	5.2b			
EIDC	VII	13 18 10 20.4	23.6S	68.0W	116	4.9b			
BJI	VII	13 18 10 22.5	23.93S	68.75W	137				
HRVD	VII	13 18 10 25.5±.6	23.34S±.09	68.53W±.14	141±4.7				

NEIC Mw5.3(HRV)
NEIC Felt I=IV MM at San Pedro de Atacama and III MM at Calama.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c16; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}0.69±.70; $M_{\theta\theta}$−2.74±1.01; $M_{\phi\phi}$2.05±1.14; $M_{r\theta}$4.97±.58; $M_{r\phi}$−5.11±.86; $M_{\theta\phi}$−8.23±1.36. Principal Axes: T 12.5,Plg31°,Azm52°; N −3.4, Plg58°,Azm249°; P −9.0,Plg8°,Azm146°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S193°, δ63°,λ18°. NP2:ϕ_S95°,δ74°,λ152°.

ISC	**VII**	**23 16 45 43**±1.2	**19.27S**±.090	**69.2W**±.12	**150**±9.8	**4.0b**	**32**	**3-150**	
NEIC	VII	23 16 45 38.4	19.44S	69.31W	113	4.6b			**¶97vii3556**
EIDC	VII	23 16 45 39.6	19.5S	69.3W	109	3.9b			

NEIC Less reliable solution.

ISC	**VII**	**27 09 07 54.6**±.80	**26.16S**±.043	**69.20W**±.072	**44**±8.6	**4.4b,3.8s**	**68**	**3-167**	
NEIC	VII	27 09 07 55.3	26.18S	69.25W	52	4.7b			**¶97vii4087**
EIDC	VII	27 09 07 57.5	25.9S	69.0W	52	4.2b,3.8s			
BJI	VII	27 09 08 04.3	26.20S	69.30W	52				

ISC	**VII**	**29 17 35 39.0**±.81	**22.77S**±.048	**68.60W**±.063	**110**±7.7	**4.8b**	**134**	**3-169**	
NEIC	VII	29 17 35 38.9	22.76S	68.81W	107	4.9b			**¶97vii4457**
EIDC	VII	29 17 35 40.0	22.8S	68.5W	107	4.5b			
BJI	VII	29 17 35 41.0	22.51S	69.21W	107				

NEIC Felt I=IV MM at Antofagasta, Calama, Chuquicamata and Socaire; III MM at San Pedro de Atacama.

ISC	**VIII**	**16 20 03 24.0**±.92	**22.01S**±.059	**68.35W**±.078	**124**±9.6	**4.2b**	**42**	**3-142**	
NEIC	VIII	16 20 03 23.8	21.99S	68.34W	121	4.6b			**¶97viii2414**
EIDC	VIII	16 20 03 25.6	21.9S	68.3W	122	4.1b			

ISC	**VIII**	**16 21 18 19**±1.7	**18.0S**±.20	**69.2W**±.27	**184**±15	**3.7b**	**6**	**2-88**	
EIDC	VIII	16 21 18 18.0	18.0S	69.3W	169	3.4b			**¶97viii2420**
NEIC	VIII	16 21 18 18.4	18.05S	69.18W	181				

NEIC Poor solution.

ISC	**VIII**	**29 05 05 53.9**±.96	**22.07S**±.048	**68.51W**±.058	**80**±9.4	**5.1b**	**157**	**3-168**	
BJI	VIII	29 05 05 57.9	22.10S	68.40W	117				**¶97viii4237**
NEIC	VIII	29 05 05 57.9	22.06S	68.43W	117	5.3b			
EIDC	VIII	29 05 06 00.0	22.1S	68.6W	119	4.8b			
HRVD	VIII	29 05 06 01.6±.8	22.12S±.09	68.68W±.11	127±5.6				

NEIC Mw5.2(HRV)
NEIC Felt I=IV MM at Calama and Quillagua, III MM at Maria Elena and II MM at San Pedro de Atacama.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c16; Mantle waves: s7,c7; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.02±.60; $M_{\theta\theta}$−0.32±1.08; $M_{\phi\phi}$4.35±.94; $M_{r\theta}$−0.31±.66; $M_{r\phi}$−7.11±.67; $M_{\theta\phi}$−1.25±.98. Principal Axes: T 8.51,Plg30°,Azm83°; N −0.32,Plg9°,Azm178°; P −8.19,Plg59°,Azm283°. Best double couple: $M_0$8.4×10^{16}Nm, NP1:ϕ_S149°,δ17°,λ−120°. NP2:ϕ_S0°,δ75°,λ−81°.

ISC	**IX**	**06 23 13 07**±2.0	**18.5S**±.20	**69.6W**±.14	**132**±16	**3.7b**	**10**	**3-88**	
EIDC	IX	06 23 13 08.5	18.5S	69.5W	125	3.6b			**¶97ix0983**

ISC	**IX**	**09 23 59 25**±2.6	**18.7S**±.20	**69.4W**±.25	**143**±26	3.9b	**6**	**3-135**	
EIDC	IX	09 23 59 25.6	18.8S	69.4W	127	3.3b			**¶97ix1456**

ISC Poorly determined

ISC	**IX**	**18 20 35 52**±1.2	**19.1S**±.10	**69.0W**±.13	**142**±13	**3.8b**	**17**	**3-151**	
NEIC	IX	18 20 35 51.5	19.12S	69.02W	138				**¶97ix2713**
EIDC	IX	18 20 35 53.4	19.1S	69.0W	139	3.5b			

NEIC Less reliable solution.

ISC	**IX**	**22 09 56 18**±2.0	**23.1S**±.12	**68.8W**±.18	**155**±20	**3.7b**	**17**	**3-132**	
NEIC	IX	22 09 56 00.4	21.99S	70.08W	75				**¶97ix3260**
EIDC	IX	22 09 56 21.0	22.9S	68.6W	183	3.4b			

NEIC Less reliable solution.

ISC	**IX**	**26 03 57 09**±6.6	**23.1S**±.40	**68.7W**±.60	**150**±20		**9**	**3-132**	
EIDC	IX	26 03 57 09.3	23.1S	68.7W	138	3.6b			**¶97ix3867**

ISC	**IX**	**28 23 13 13.8**±.17	**22.44S**±.033	**68.42W**±.037	**107**±.4*	**5.6b**	**447**	**3-176**	
BJI	IX	28 23 13 13.9	22.40S	68.50W	107				**¶97ix4785**
NEIC	IX	28 23 13 13.9	22.41S	68.45W	107	5.7b			
EIDC	IX	28 23 13 14.3	22.4S	68.4W	97	5.4b,4.4s			
MOS	IX	28 23 13 17.7	22.3S	68.5W	136	5.8b			
HRVD	IX	28 23 13 24.5±.3	22.22S±.04	68.31W±.04	146±1.5				

NEIC Mw5.6(GS), Mw5.6(HRV)
NEIC Felt I=V MM at Calama and Chuquicamata, III MM at San Pedro de Atacama and II MM at Antofagasta.
NEIC Moment tensor solution: s23, scale 10^{17}Nm; M_{rr}−2.44; $M_{\theta\theta}$0.01; $M_{\phi\phi}$2.43; $M_{r\theta}$0.67;

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
		mo d h m s		°	°	km			°

Mrθ−0.46; Mθθ−0.48. Depth 109km; Principal axes: T 2.59,Plg7°,Azm78°; N 0.04,Plg12°, Azm346°; P −2.64,Plg76°,Azm196°. Best double couple: M0 2.6×10^17Nm; NP1:φs181°,δ40°, λ−71°. NP2:φs337°,δ53°,λ−105°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c67; Mantle waves: s8,c8; Half duration: 1s4. Moment tensor: Scale 10^17Nm; Mrr−2.15±.07; Mθθ−0.20±.13; Mφφ 2.35±.13; Mrθ 0.41±.08; Mrφ 0.94±.09; Mθφ−0.72±.12. Principal Axes: T 2.68,Plg10°,Azm257°; N −0.20,Plg16°,Azm350°; P −2.48,Plg71°,Azm137°. Best double couple: M0 2.6×10^17Nm, NP1:φs328°,δ38°,λ−117°. NP2:φs181°,δ57°,λ−71°.

ISC	**IX**	**29 03 45 25**±1.8	**23.39S**±.088	**70.0W**±.16	**41**±24	4.2b	**12**	**7-131**	
NEIC	IX	29 03 45 23.9	23.35S	70.10W	33				**¶97ix4859**
EIDC	IX	29 03 45 29.7	23.4S	70.0W	70	4.0L,3.9b			
NEIC	Less reliable solution.								
EIDC	**X**	**01 22 06 17.3**	**22.9S**	**68.6W**	**0**	4.1b,4.2L			**¶97x0163**
EIDC	**X**	**02 20 46 18.1**	**18.6S**	**69.4W**	**0**	**4.2b**			**¶97x0341**
ISC	**X**	**17 00 28 48**±2.1	**19.7S**±.18	**69.2W**±.23	**124**±23	3.9b	**8**	**3-89**	
NEIC	X	17 00 28 46.7	19.79S	69.17W	100				**¶97x2907**
EIDC	X	17 00 28 48.9	19.8S	69.1W	107	3.6b			
NEIC	Less reliable solution.								
ISC	**X**	**20 23 56 11**±1.0	**19.49S**±.097	**69.3W**±.12	**133**±12	**4.0b**	**12**	**3-131**	
NEIC	X	20 23 56 11.5	19.47S	69.20W	128	4.4b			**¶97x3576**
EIDC	X	20 23 56 14.6	19.4S	69.1W	132	3.9b			
NEIC	Less reliable solution.								
ISC	**X**	**29 08 37 56.3**±.91	**18.67S**±.060	**69.01W**±.063	**127**±8.3	**4.8b**	**85**	**2-151**	
BJI	X	29 08 37 56.8	18.70S	69.20W	132				**¶97x4881**
NEIC	X	29 08 37 56.8	18.72S	69.12W	132	4.8b			
EIDC	X	29 08 37 58.2	18.8S	69.1W	130	4.5b			
ISC	**XI**	**16 08 10 57**±1.7	**20.84S**±.099	**69.3W**±.18	**141**±14	4.1b	**11**	**4-90**	
NEIC	XI	16 08 10 57.3	20.80S	69.21W	150	4.3b			**¶97xi2613**
EIDC	XI	16 08 10 57.5	20.7S	69.4W	140	4.0b			
NEIC	Less reliable solution.								
ISC	**XII**	**12 17 07 54**±1.1	**23.51S**±.048	**69.22W**±.067	**41**±11	**5.0b,4.0s**	**120**	**4-168**	
MOS	XII	12 17 07 54.4	23.6S	69.2W	33	5.7b			**¶97xii2786**
BJI	XII	12 17 07 57.7	23.60S	69.50W	81				
NEIC	XII	12 17 07 57.7	23.64S	69.45W	81	5.0b			
EIDC	XII	12 17 07 58.4±.35	23.5S	69.4W	73±2.7	4.7b,4.0s			
NEIC	Felt I=IV MM at Mejillones and III MM at Antofagasta, Calama, Taltal and Tocopilla.								
EIDC	Error ellipse is semi−major=20.1km semi−minor=12.4km azimuth=63								
ISC	**XII**	**15 14 27 55**±1.0	**24.29S**±.052	**69.23W**±.066	**70**±10	**4.8b**	**93**	**3-171**	
BJI	XII	15 14 27 56.1	24.40S	69.50W	82	5.4s			**¶97xii3297**
NEIC	XII	15 14 27 56.1	24.38S	69.52W	82	5.0b			
EIDC	XII	15 14 27 57.4±.38	24.2S	69.4W	83±3.0	4.6b,3.9s			
NEIC	Felt I=III MM at Antofagasta, Calama, Chuquicamata, Mejillones, Sierra Gorda and Tocopilla.								
EIDC	Error ellipse is semi−major=21.6km semi−minor=15.1km azimuth=56								
ISC	**XII**	**25 08 51 40**±1.1	**19.0S**±.11	**69.1W**±.11	**113**±12	**4.1b**	**26**	**3-155**	
NEIC	XII	25 08 51 38.8	19.02S	69.07W	102	4.2b			**¶97xii4901**
EIDC	XII	25 08 51 38.8±3.73	19.1S	69.2W	92±36.3	4.0b,3.4s			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=26.5km semi−minor=18.2km azimuth=40								

(124) Chile-Bolivia border region.

ISC	**VII**	**02 07 28 14**±1.5	**19.9S**±.10	**68.8W**±.13	**147**±14	**3.8b**	**19**	**3-151**	
NEIC	VII	02 07 28 10.8	20.05S	68.90W	119	4.1b			**¶97vii0200**
EIDC	VII	02 07 28 12.4	20.0S	68.9W	124	3.8b			
NEIC	Less reliable solution.								
ISC	**VII**	**05 14 23 35**±3.5	**21.8S**±.24	**68.5W**±.24	**89**±26	**3.9b**	**12**	**5-92**	
EIDC	VII	05 14 23 36.4	21.9S	68.5W	75	3.7b			**¶97vii0740**
NEIC	VII	05 14 23 36.5	21.80S	68.41W	100	4.2b			
NEIC	Less reliable solution.								
ISC	**VII**	**07 01 03 37**±1.2	**20.42S**±.089	**68.9W**±.12	**155**±10	**3.9b**	**24**	**4-158**	
NEIC	VII	07 01 03 36.4	20.36S	68.86W	144	4.2b			**¶97vii0962**
EIDC	VII	07 01 03 37.0	19.5S	67.5W	128	3.6b			
NEIC	Less reliable solution.								
ISC	**VII**	**08 05 57 38**±1.1	**21.7S**±.10	**68.1W**±.10	**151**±10	**3.7b**	**23**	**2-133**	
NEIC	VII	08 05 57 37.1	21.68S	68.10W	134				**¶97vii1144**
EIDC	VII	08 05 57 38.2	21.6S	68.1W	130	3.6b			
NEIC	Less reliable solution.								
ISC	**VII**	**10 18 52 52.4**±.88	**21.3S**±.12	**67.4W**±.17	**33**	**3.7b**	**8**	**2-91**	
EIDC	VII	10 18 52 49.8	21.2S	67.4W	0	3.7b,3.6L			**¶97vii1546**
NEIC	VII	10 18 52 53.7	21.28S	67.44W	50	3.9b			
NEIC	Less reliable solution.								
ISC	**VII**	**12 16 24 12.3**±.67	**21.19S**±.049	**68.13W**±.053	**141**±5.7	**5.1b**	**228**	**3-168**	
EIDC	VII	12 16 24 10.2	21.3S	68.2W	115	4.9b,3.9s			**¶97vii1836**
NEIC	VII	12 16 24 10.3	21.23S	68.15W	123	5.2b			
BJI	VII	12 16 24 11.4	20.82S	68.28W	122				
HRVD	VII	12 16 24 14.5±.4	21.50S±.04	68.39W±.08	141±2.1				
NEIC	Mw5.3(HRV)								
NEIC	Felt I=IV MM at San Pedro de Atacama and III MM at Calama and Chuquicamata, Chile.								

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c32; Half duration: 1s0. Moment tensor: Scale 10^16Nm; Mrr−6.36±.36; Mθφ1.97±.59; Mφφ 4.39±.73; Mrθ−0.07±.35; Mrφ−3.94±.53; Mθθ−5.64±.60. Principal Axes: T 9.54,Plg11°,Azm53°; N −1.48,Plg23°,Azm148°; P −8.06,Plg64°,Azm300°. Best double couple: M0 8.8×10^16Nm, NP1:φs117°,δ40°,λ−129°. NP2:φs343°,δ60°,λ−63°.

ISC	**VII**	**16 16 31 53.1**±.83	**22.72S**±.062	**67.96W**±.087	**153**±7.8	**4.2b**	**53**	**2-160**	
EIDC	VII	16 16 31 52.4	22.7S	67.9W	132	4.1b			**¶97vii2466**
NEIC	VII	16 16 31 53.6	22.64S	67.92W	157	4.5b			
BJI	VII	16 16 31 58.6	22.60S	67.90W	157				
ISC	**VII**	**21 10 26 43**±1.3	**21.81S**±.093	**68.3W**±.16	**159**±11	**3.9b**	**14**	**3-89**	
EIDC	VII	21 10 26 43.0	21.8S	68.4W	144	4.0b			**¶97vii3228**
NEIC	VII	21 10 26 43.3	21.82S	68.31W	159				
NEIC	Less reliable solution.								
ISC	**VII**	**24 16 05 36**±1.5	**20.38S**±.099	**68.7W**±.16	**144**±13	**3.9b**	**17**	**3-152**	
EIDC	VII	24 16 05 34.6	20.4S	68.7W	111	3.9b			**¶97vii3695**
NEIC	VII	24 16 05 35.8	20.38S	68.66W	140	4.3b			
NEIC	Less reliable solution.								
ISC	**VII**	**24 23 33 40**±1.3	**20.66S**±.088	**68.6W**±.12	**157**±12	**4.0b**	**26**	**3-152**	
NEIC	VII	24 23 33 36.2	20.73S	68.82W	113	4.1b			**¶97vii3739**
EIDC	VII	24 23 33 38.6	20.7S	68.8W	119	3.7b,3.0s			
NEIC	Less reliable solution.								
ISC	**VII**	**27 05 06 06**±1.8	**21.2S**±.11	**68.7W**±.15	**145**±17	**3.7b**	**11**	**5-91**	
NEIC	VII	27 05 06 03.5	21.30S	68.75W	121	4.1b			**¶97vii4060**
EIDC	VII	27 05 06 05.8	21.2S	68.7W	127	3.6b			
NEIC	Less reliable solution.								
ISC	**VIII**	**08 11 57 21.7**±.87	**21.63S**±.066	**68.36W**±.077	**135**±7.7	**4.5b**	**106**	**3-168**	
NEIC	VIII	08 11 57 18.5	21.78S	68.44W	112	4.7b			**¶97viii1113**
EIDC	VIII	08 11 57 20.2	21.8S	68.5W	114	4.2b,3.7s			
BJI	VIII	08 11 57 20.5	21.80S	68.40W	112				
ISC	**VIII**	**15 02 35 40.0**±.73	**21.10S**±.089	**67.4W**±.12	**203**±8.0	**3.6b**	**19**	**2-141**	
NEIC	VIII	15 02 35 41.2	21.04S	67.32W	213				**¶97viii2150**
EIDC	VIII	15 02 35 41.4	21.0S	67.4W	199	3.7b			
NEIC	Less reliable solution.								
ISC	**VIII**	**16 21 40 18.1**±.99	**21.51S**±.083	**68.2W**±.11	**157**±8.3	**3.9b**	**26**	**3-91**	
NEIC	VIII	16 21 40 16.8	21.56S	68.24W	145	4.4b			**¶97viii2421**
EIDC	VIII	16 21 40 18.3	21.5S	68.2W	138	3.8b			
NEIC	Less reliable solution.								
ISC	**VIII**	**20 14 49 42**±1.4	**21.1S**±.10	**68.8W**±.12	**104**±14	**3.8b**	**19**	**5-149**	
NEIC	VIII	20 14 49 40.8	21.18S	68.75W	100	4.3b			**¶97viii2977**
EIDC	VIII	20 14 49 44.8	21.3S	68.8W	121	3.7b			
NEIC	Less reliable solution.								
ISC	**VIII**	**25 03 34 22**±1.0	**19.55S**±.049	**68.97W**±.054	**82**±10	**4.7b**	**148**	**3-169**	
BJI	VIII	25 03 34 24.7	19.60S	69.00W	107				**¶97viii3638**
NEIC	VIII	25 03 34 24.7	19.62S	69.00W	107	4.8b			
EIDC	VIII	25 03 34 26.9	19.6S	69.1W	111	4.2b,4.0s			
NEIC	Felt I=III MM at Arica and Iquique.								
ISC	**VIII**	**26 13 17 49**±1.1	**21.13S**±.066	**68.12W**±.084	**146**±11	**4.4b**	**62**	**3-168**	
NEIC	VIII	26 13 17 47.8	21.14S	68.18W	134	4.9b			**¶97viii3852**
EIDC	VIII	26 13 17 49.7	21.2S	68.2W	135	4.3b			
BJI	VIII	26 13 17 50.8	21.10S	68.20W	134				
ISC	**VIII**	**27 16 18 32**±1.1	**21.76S**±.091	**68.10W**±.093	**153**±10	**4.1b**	**36**	**3-130**	
NEIC	VIII	27 16 18 29.4	21.80S	68.20W	133	4.4b			**¶97viii4012**
EIDC	VIII	27 16 18 32.2	21.7S	68.1W	141	4.0b			
ISC	**IX**	**01 06 18 57**±2.1	**20.6S**±.12	**68.0W**±.20	**42**±26	3.3b	**6**	**4-60**	
EIDC	IX	01 06 18 54.1	20.6S	68.1W	0	3.8L,3.3b			**¶97ix0058**
ISC	**IX**	**04 23 57 58**±1.5	**21.0S**±.12	**68.4W**±.13	**155**±14	**3.8b**	**12**	**3-80**	
NEIC	IX	04 23 57 57.7	20.98S	68.43W	150				**¶97ix0653**
EIDC	IX	04 23 57 57.9	21.0S	68.4W	133	3.7b			
NEIC	Less reliable solution.								
ISC	**IX**	**20 15 52 35**±1.3	**21.67S**±.090	**68.1W**±.13	**153**±13	**3.8b**	**23**	**2-142**	
NEIC	IX	20 15 52 32.3	21.70S	68.29W	132	4.1b			**¶97ix2958**
EIDC	IX	20 15 52 36.2	21.6S	68.2W	149	3.7b			
NEIC	Less reliable solution.								
ISC	**IX**	**24 20 46 26**±1.5	**19.36S**±.092	**68.8W**±.15	**151**±11	**4.3b**	**22**	**3-135**	
EIDC	IX	24 20 46 24.6	19.4S	68.9W	125	4.2b			**¶97ix3630**
NEIC	IX	24 20 46 25.5	19.35S	68.81W	142	4.8b			
NEIC	Less reliable solution.								
ISC	**IX**	**25 03 12 52**±1.6	**20.4S**±.10	**68.7W**±.16	**151**±15	**3.9b**	**12**	**3-134**	
NEIC	IX	25 03 12 51.2	20.41S	68.82W	140	4.0b			**¶97ix3670**
EIDC	IX	25 03 12 52.6	20.4S	68.8W	135	3.7b			
NEIC	Less reliable solution.								
ISC	**IX**	**30 06 08 06**±1.2	**19.4S**±.11	**68.6W**±.15	**188**±13		**10**	**3-20**	
									¶97ix5141
ISC	**X**	**10 08 17 46.7**±.90	**22.1S**±.13	**67.2W**±.18	**192**±9.6	**3.4b**	**14**	**2-133**	
NEIC	X	10 08 17 47.1	22.00S	67.06W	200	3.6b			**¶97x1722**
EIDC	X	10 08 17 51.4	21.7S	66.9W	214	3.2b			
NEIC	Less reliable solution.								
ISC	**X**	**10 14 33 53.1**±.83	**21.13S**±.065	**68.32W**±.094	**154**±8.0	**4.1b**	**47**	**3-168**	
NEIC	X	10 14 33 50.8	21.15S	68.54W	131	4.6b			**¶97x1761**
EIDC	X	10 14 33 53.1	21.1S	68.3W	140	4.1b			
ISC	**X**	**11 22 12 39**±1.2	**22.0S**±.11	**68.1W**±.12	**162**±9.5	**3.9b**	**21**	**2-133**	
EIDC	X	11 22 12 33.5	22.1S	68.3W	97	3.8b,4.2L			**¶97x1946**
NEIC	X	11 22 12 37.5	22.17S	68.20W	150	4.3b			
NEIC	Less reliable solution.								
ISC	**X**	**18 15 24 53.8**±.90	**19.73S**±.089	**68.8W**±.13	**154**±11	**4.2b**	**32**	**3-151**	
NEIC	X	18 15 24 50.5	19.68S	69.16W	123	4.5b			**¶97x3185**
EIDC	X	18 15 24 51.3	19.7S	69.1W	117	3.9b			
NEIC	Less reliable solution.								
ISC	**X**	**21 10 59 25.2**±.78	**22.20S**±.085	**67.54W**±.086	**180**±6.7	**4.4b**	**60**	**2-167**	
EIDC	X	21 10 59 16.1	22.3S	67.8W	88	4.2b			**¶97x3642**
NEIC	X	21 10 59 24.5	22.22S	67.60W	174	4.6b			
ISC	**X**	**24 05 41 59**±1.7	**21.5S**±.16	**68.3W**±.20	**148**±14	**3.8b**	**15**	**3-133**	
EIDC	X	24 05 41 57.1	21.7S	68.4W	115	3.6b			**¶97x4113**
NEIC	X	24 05 41 59.1	21.46S	68.24W	145	4.2b			
NEIC	Less reliable solution.								
ISC	**X**	**30 14 14 05**±1.4	**21.2S**±.10	**68.3W**±.15	**140**±12	**3.9b**	**17**	**3-133**	
NEIC	X	30 14 14 04.6	21.23S	68.35W	134				**¶97x5052**
EIDC	X	30 14 14 06.8	21.2S	68.3W	138	3.8b			
NEIC	Less reliable solution.								
ISC	**XI**	**15 02 48 44**±1.0	**20.77S**±.072	**68.9W**±.10	**143**±8.9	**4.3b**	**29**	**3-152**	
NEIC	XI	15 02 48 43.9	20.79S	68.93W	139	4.5b			**¶97xi2405**
EIDC	XI	15 02 48 44.0	20.7S	68.9W	125	4.2b			
ISC	**XI**	**21 19 36 04**±1.1	**21.51S**±.092	**68.1W**±.13	**155**±9.6	**3.9b**	**19**	**2-130**	
NEIC	XI	21 19 36 03.7	21.51S	68.13W	150	4.7b			**¶97xi3722**
EIDC	XI	21 19 36 05.1	21.5S	68.1W	146	3.5b			
ISC	**XI**	**25 11 21 26**±1.3	**21.1S**±.11	**68.0W**±.20	**170**±14	**3.8b**	**9**	**3-91**	
NEIC	XI	25 11 21 25.3	21.11S	68.02W	167				**¶97xi4494**
EIDC	XI	25 11 21 27.8	21.0S	68.1W	172	3.6b			
NEIC	Less reliable solution.								
ISC	**XII**	**03 08 04 28**±1.5	**21.3S**±.11	**68.3W**±.19	**156**±15	4.1b	**10**	**3-133**	
NEIC	XII	03 08 04 28.5	21.30S	68.26W	145				**¶97xii0380**
EIDC	XII	03 08 04 28.9±3.23	21.3S	68.2W	129±32.3	4.0b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=39.3km semi−minor=26.4km azimuth=114								
ISC	**XII**	**06 07 18 43**±1.0	**22.0S**±.10	**67.3W**±.17	**192**±11	**3.5b**	**11**	**2-92**	
NEIC	XII	06 07 18 42.8	21.98S	67.28W	191	3.7b			**¶97xii1288**
EIDC	XII	06 07 18 43.7±3.28	21.9S	67.3W	181±27.2	3.5b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=33.9km semi−minor=21.6km azimuth=47								
ISC	**XII**	**09 14 23 40.7**±.89	**20.25S**±.037	**68.31W**±.042	**92**±8.6	**5.4b**	**291**	**3-168**	
MOS	XII	09 14 23 43.4	20.2S	68.3W	116	5.7b			**¶97xii2188**
BJI	XII	09 14 23 45.2	20.20S	68.40W	133				
NEIC	XII	09 14 23 45.2	20.24S	68.37W	133	5.7b			
EIDC	XII	09 14 23 47.7±.27	20.2S	68.4W	143±2.2	4.8b			
HRVD	XII	09 14 23 52.5±.3	20.14S±.04	68.70W±.04	152±1.4				
NEIC	Mw5.7(GS), Mw5.7(HRV)								
NEIC	Felt I=V MM at Guatacondo, IV MM at Tocopilla and III MM at Arica, Iquique and Quillagua, Chile. Also felt II MM at Arequipa, Peru.								

NEIC Moment tensor solution: s8, scale 10^17Nm; Mrr−0.30; Mθθ−2.99; Mφφ 3.29; Mrθ 0.43; Mrφ−2.05; Mθφ 1.70. Depth 147km; Principal axes: T 4.48,Plg22°,Azm102°; N −0.77,Plg61°, Azm324°; P −3.71,Plg17°,Azm199°. Best double couple: M0 4.1×10^17Nm; NP1:φs241°,δ62°, λ3°. NP2:φs149°,δ87°,λ152°.

EIDC Error ellipse is semi−major=11.8km semi−minor=8.0km azimuth=88

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c40; Mantle waves: s4,c4; Half duration: 1s6. Moment tensor: Scale 10^17Nm; Mrr 0.16±.09; Mθθ−1.86±.12; Mφφ 1.70±.13; Mrθ 0.61±.09; Mrφ−2.57±.10; Mθφ 2.08±.13. Principal Axes: T 3.93,Plg31°,Azm106°; N −0.27,Plg46°,Azm337°; P −3.66,Plg27°,Azm214°. Best double couple: M0 3.8×10^17Nm, NP1:φs252°,δ46°,λ4°. NP2:φs160°,δ87°,λ136°.

ISC	**XII**	**13 18 57 06**±2.0	**20.9S**±.13	**68.62W**±.093	**162**±20	**4.1b**	**34 12-153**
NEIC	XII	13 18 57 00.3	20.71S	68.70W	106	4.6b	**¶97xii2997**
EIDC	XII	13 18 57 02.3±.59	20.7S	68.8W	110±5.0	4.2b	
EIDC	Error ellipse is semi−major=18.8km semi−minor=14.8km azimuth=49						
ISC	**XII**	**23 23 15 29**±6.5	**19.9S**±.14	**68.9W**±.17	**62**±57	**4.1b**	**15 20-152**
NEIC	XII	23 23 15 35.0	20.03S	68.85W	114	4.0b	**¶97xii4666**
EIDC	XII	23 23 15 36.5±.88	20.1S	68.9W	114±6.7	3.7b	
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=25.3km semi−minor=20.6km azimuth=51						

(125) Southern Bolivia.

ISC	**VIII**	**18 18 01 43.3**±.65	**21.46S**±.081	**66.5W**±.10	**245**±7.9	**4.1b**	**30 2-154**
NEIC	VIII	18 18 01 45.8	21.10S	66.36W	253	4.6b	**¶97viii2702**
EIDC	VIII	18 18 01 47.5	21.1S	66.4W	252	3.8b	
NEIC	Less reliable solution.						
ISC	**VIII**	**19 03 25 45**±1.5	**21.5S**±.19	**66.7W**±.28	**136**±16	3.7b	**6 1-92**
							¶97viii2755
ISC	**VIII**	**26 01 09 39**±1.1	**22.0S**±.14	**64.7W**±.26	**33**	**3.8b**	**5 7-77**
EIDC	VIII	26 01 09 36.6	22.0S	64.6W	0	3.7b,3.9L	**¶97viii3766**
ISC	**IX**	**10 21 02 43.4**±.56	**21.43S**±.068	**66.68W**±.084	**225**±6.2	**4.2b**	**57 1-166**
NEIC	IX	10 21 02 42.9	21.42S	66.73W	220	4.5b	**¶97ix1579**
EIDC	IX	10 21 02 44.8	21.4S	66.7W	225	3.9b	
ISC	**IX**	**27 06 41 28.9**±.91	**21.9S**±.13	**65.9W**±.19	**270**±11	3.1b	**9 0-134**
NEIC	IX	27 06 41 28.0	21.88S	65.78W	271		**¶97ix4274**
EIDC	IX	27 06 41 30.4	21.8S	65.9W	275	2.9b	
NEIC	Less reliable solution.						
ISC	**X**	**24 14 29 41.1**±.72	**19.16S**±.083	**67.3W**±.12	**242**±7.5	**3.6b**	**16 2-136**
NEIC	X	24 14 29 40.7	19.13S	67.26W	237		**¶97x4183**
EIDC	X	24 14 29 41.0	19.2S	67.3W	224	3.4b	
NEIC	Less reliable solution.						
ISC	**XI**	**27 02 45 50.5**±.57	**20.54S**±.076	**66.52W**±.090	**242**±6.3	**4.1b**	**37 2-140**
NEIC	XI	27 02 45 50.7	20.58S	66.48W	248	4.5b	**¶97xi4784**
EIDC	XI	27 02 45 52.5	20.5S	66.6W	249	3.9b	

(127) Chile-Argentina border region.

ISC	**VII**	**02 02 15 17.5**±.68	**31.66S**±.079	**70.3W**±.12	**129**±12	4.6b	**27 1-68**
EIDC	VII	02 02 15 10.8	31.7S	69.3W	0	4.2L,3.7b	**¶97vii0167**
NEIC	VII	02 02 15 18.4	31.83S	70.45W	151		
GUC	VII	02 02 15 19.6	31.81S	70.61W	133	4.2D	
NEIC	Less reliable solution.						
ISC	**VII**	**04 06 13 37**±6.9	**31.5S**±.57	**70.6W**±.38	**150**		**13 1-3**
GUC	VII	04 06 13 33.3	31.33S	70.31W	168	3.2D	**¶97vii0516**
NEIC	VII	04 06 13 34.2	31.28S	70.47W	150		
NEIC	Poor solution.						
ISC	**VII**	**04 10 07 25**±3.6	**34.5S**±.16	**70.4W**±.24	**8**±8.7		**11 0-2**
NEIC	VII	04 10 07 22.6	34.54S	70.34W	5		**¶97vii0535**
GUC	VII	04 10 07 24.8	34.45S	70.45W	3	3.6D	
NEIC	Poor solution.						
ISC	**VII**	**04 13 38 22**±3.9	**33.63S**±.083	**70.6W**±.19	**93**±38		**12 0-1**
GUC	VII	04 13 38 22.8	33.61S	70.60W	83		**¶97vii0568**
NEIC	VII	04 13 38 23.2	33.61S	70.62W	80		
NEIC	Single network solution.						
ISC	**VII**	**05 16 53 22**±1.1	**24.30S**±.086	**67.03W**±.088	**184**±10	**3.9b**	**33 2-155**
NEIC	VII	05 16 53 21.5	24.28S	67.00W	180	4.3b	**¶97vii0754**
EIDC	VII	05 16 53 22.2	24.2S	67.1W	175	3.7b	
ISC	**VII**	**05 19 57 46**±7.4	**36.1S**±.65	**70.9W**±.46	**173**±15		**14 2-20**
GUC	VII	05 19 57 40.7	36.34S	71.10W	210	3.4D	**¶97vii0781**
EIDC	**VII**	**06 09 59 49.5**	**28.4S**	**69.8W**	**0**	**4.3b**,3.9L	**18-97**
							¶97vii0863
ISC	**VII**	**07 09 24 06**±3.4	**34.5S**±.16	**70.4W**±.22	**10**±7.8		**14 0-2**
NEIC	VII	07 09 24 06.5	34.44S	70.37W	10		**¶97vii1022**
GUC	VII	07 09 24 06.6	34.47S	70.42W	5		
NEIC	Poor solution.						
ISC	**VII**	**09 18 42 03**±3.7	**33.63S**±.085	**70.7W**±.17	**100**±36		**13 0-1**
NEIC	VII	09 18 42 05.3	33.61S	70.68W	80		**¶97vii1379**
GUC	VII	09 18 42 05.5	33.68S	70.71W	80	2.5D	
NEIC	Single network solution.						
ISC	**VII**	**10 22 04 44**±4.0	**33.3S**±.12	**70.5W**±.21	**94**±37		**13 0-1**
NEIC	VII	10 22 04 43.0	33.27S	70.41W	100		**¶97vii1575**
GUC	VII	10 22 04 43.9	33.29S	70.47W	93	2.6D	
NEIC	Single network solution.						
ISC	**VII**	**12 01 57 21**±3.9	**33.2S**±.12	**70.5W**±.20	**83**±38		**10 0-1**
NEIC	VII	12 01 57 18.9	33.18S	70.37W	100		**¶97vii1760**
GUC	VII	12 01 57 19.7	33.22S	70.43W	99	2.3D	
NEIC	Single network solution.						
ISC	**VII**	**12 22 20 37**±5.0	**31.8S**±.28	**70.2W**±.21	**141**±47		**14 1-3**
NEIC	VII	12 22 20 40.7	31.91S	70.18W	100		**¶97vii1877**
GUC	VII	12 22 20 42.0	32.08S	70.33W	118	3.3D	
NEIC	Less reliable solution.						
ISC	**VII**	**13 03 13 21**±2.0	**32.7S**±.16	**70.2W**±.26	**113**		**12 0-2**
NEIC	VII	13 03 13 19.1	32.65S	70.11W	120		**¶97vii1917**
GUC	VII	13 03 13 20.6	32.71S	70.18W	113	2.9D	
NEIC	Poor solution.						
ISC	**VII**	**13 18 01 48**±5.0	**33.5S**±.10	**70.3W**±.27	**107**±44		**13 0-1**
GUC	VII	13 18 01 48.4	33.50S	70.27W	106	2.8D	**¶97vii2004**
NEIC	VII	13 18 01 48.7	33.50S	70.25W	100		
NEIC	Single network solution.						
ISC	**VII**	**14 04 54 07**±4.5	**32.0S**±.37	**70.7W**±.27	**100**		**12 1-3**
NEIC	VII	14 04 54 05.6	31.93S	70.72W	100		**¶97vii2069**
GUC	VII	14 04 54 08.2	32.12S	70.68W	96	2.7D	
NEIC	Poor solution.						
ISC	**VII**	**14 13 29 00**±1.8	**23.7S**±.12	**67.3W**±.17	**200**±20	**3.8b**	**9 7-88**
NEIC	VII	14 13 28 59.4	23.74S	67.19W	194	4.2b	**¶97vii2135**
EIDC	VII	14 13 29 01.4	23.6S	67.3W	198	3.8b	
NEIC	Less reliable solution.						
ISC	**VII**	**15 18 52 26**±4.7	**31.6S**±.30	**70.8W**±.33	**107**±39		**14 1-3**
NEIC	VII	15 18 52 27.1	31.70S	70.79W	90		**¶97vii2336**
GUC	VII	15 18 52 27.5	31.73S	70.69W	90	3.4D	
NEIC	Less reliable solution.						
ISC	**VII**	**17 21 41 35**±2.7	**34.4S**±.14	**70.4W**±.18	**9**±7.3		**13 0-2**
NEIC	VII	17 21 41 33.5	34.51S	70.38W	5		**¶97vii2650**
GUC	VII	17 21 41 34.8	34.47S	70.44W	6	3.8D	
NEIC	Single network solution.						
ISC	**VII**	**17 21 54 58**±2.6	**34.4S**±.14	**70.4W**±.18	**10**±7.1		**14 0-2**
NEIC	VII	17 21 54 55.5	34.52S	70.37W	5		**¶97vii2651**
GUC	VII	17 21 54 57.1	34.47S	70.43W	6	3.9D	
NEIC	Single network solution.						
ISC	**VII**	**18 05 22 56**±3.3	**33.2S**±.12	**71.0W**±.13	**65**±35		**13 0-1**
NEIC	VII	18 05 22 55.5	33.18S	70.96W	70		**¶97vii2696**
GUC	VII	18 05 22 55.8	33.19S	70.94W	67	2.5D	
NEIC	Single network solution.						
ISC	**VII**	**20 11 51 02**±4.2	**31.9S**±.34	**70.2W**±.39	**140**		**12 1-3**
GUC	VII	20 11 51 01.3	31.84S	70.07W	135	2.9D	**¶97vii3083**
NEIC	VII	20 11 51 01.3	31.86S	70.12W	140		
NEIC	Poor solution.						
ISC	**VII**	**20 14 00 17**±6.6	**24.2S**±.55	**67.1W**±.81	**214**±28		**6 1-20**
							¶97vii3099
ISC	**VII**	**21 12 24 38**±4.2	**31.7S**±.37	**70.1W**±.19	**135**		**14 1-3**
NEIC	VII	21 12 24 39.5	31.79S	70.20W	135		**¶97vii3244**
GUC	VII	21 12 24 40.8	31.89S	70.29W	135	3.5D	
NEIC	Poor solution.						
ISC	**VII**	**24 07 44 40**±2.8	**34.10S**±.094	**70.1W**±.22	**12**±11		**12 0-1**
GUC	VII	24 07 44 39.9	34.09S	70.10W	6		**¶97vii3642**
NEIC	VII	24 07 44 40.5	34.07S	70.14W	10		
NEIC	Single network solution.						
ISC	**VII**	**24 16 14 10**±4.6	**33.4S**±.11	**70.5W**±.24	**90**±42		**8 0-1**
NEIC	VII	24 16 14 07.9	33.47S	70.37W	100		**¶97vii3697**
GUC	VII	24 16 14 08.6	33.44S	70.43W	98		
NEIC	Poor solution.						
ISC	**VII**	**24 16 39 32**±7.9	**32.9S**±.27	**70.3W**±.33	**115**±64		**11 0-2**
NEIC	VII	24 16 39 31.8	32.89S	70.24W	110		**¶97vii3700**
GUC	VII	24 16 39 31.9	32.89S	70.23W	111	2.5D	
NEIC	Single network solution.						
ISC	**VII**	**25 04 21 40**±5.3	**33.5S**±.11	**70.3W**±.32	**108**±47		**11 0-1**
NEIC	VII	25 04 21 40.5	33.48S	70.25W	100		**¶97vii3769**
NEIC	Single network solution.						
ISC	**VII**	**25 15 03 49**±2.3	**25.89S**±.056	**68.99W**±.089	**23**±17	**4.3b,4.0s**	**36 4-167**
NEIC	VII	25 15 03 52.1	26.02S	69.27W	53	5.0b,4.2s	**¶97vii3835**
EIDC	VII	25 15 03 53.1	25.9S	69.0W	54	4.1b,4.0s	
NEIC	Less reliable solution.						
ISC	**VII**	**25 16 42 39.3**±.46	**33.96S**±.061	**70.41W**±.080	**115**±5.0	**4.1b**	**30 0-154**
NEIC	VII	25 16 42 38.9	34.03S	70.27W	100	4.6b	**¶97vii3847**
EIDC	VII	25 16 42 40.3	34.0S	70.2W	103	4.0b	
GUC	VII	25 16 42 40.8	33.91S	70.53W	102	4.1D	
NEIC	Felt I=III MM at Rancagua and Santiago; II MM at Buin and Maipo, Chile.						
ISC	**VII**	**26 05 09 27**±3.6	**32.0S**±.20	**70.4W**±.19	**134**±33		**17 1-3**
GUC	VII	26 05 09 30.9	32.20S	70.47W	105	3.9D	**¶97vii3917**
NEIC	VII	26 05 09 31.6	32.27S	70.35W	100		
NEIC	Less reliable solution.						
ISC	**VII**	**26 17 23 45**±3.5	**34.0S**±.11	**70.8W**±.14	**80**±35		**12 0-1**
NEIC	VII	26 17 23 45.2	33.97S	70.81W	80		**¶97vii3986**
GUC	VII	26 17 23 45.5	33.94S	70.81W	79	2.5D	
NEIC	Single network solution.						
ISC	**VII**	**28 14 25 41**±4.1	**33.1S**±.16	**69.3W**±.30	**2**		**12 1-2**
GUC	VII	28 14 25 37.2	33.03S	68.97W	2	3.7D	**¶97vii4289**
ISC	**VII**	**29 05 34 56**±4.6	**31.7S**±.41	**70.2W**±.21	**138**		**13 1-3**
NEIC	VII	29 05 34 55.1	31.65S	70.23W	140		**¶97vii4386**
GUC	VII	29 05 34 57.2	31.79S	70.38W	138	3.1D	
NEIC	Poor solution.						
ISC	**VII**	**29 20 17 08**±2.9	**33.3S**±.11	**71.0W**±.12	**63**±31		**12 0-1**
NEIC	VII	29 20 17 07.7	33.26S	70.95W	70		**¶97vii4476**
GUC	VII	29 20 17 07.9	33.25S	70.97W	67	3.3D	
NEIC	Single network solution.						
ISC	**VII**	**30 15 42 06**±3.0	**31.3S**±.29	**70.0W**±.21	**139**		**13 1-3**
NEIC	VII	30 15 42 09.0	31.61S	70.03W	140		**¶97vii4598**
GUC	VII	30 15 42 10.9	31.71S	70.20W	139	3.6D	
NEIC	Poor solution.						
ISC	**VII**	**30 21 31 19**±8.1	**34.6S**±.44	**71.0W**±.20	**90**±57		**11 0-2**
NEIC	VII	30 21 31 18.9	34.64S	70.96W	90		**¶97vii4639**
GUC	VII	30 21 31 20.0	34.59S	70.94W	82	2.8D	
NEIC	Poor solution.						
ISC	**VIII**	**01 05 37 08**±3.6	**34.5S**±.20	**70.4W**±.26	**11**±8.3		**11 0-2**
GUC	VIII	01 05 37 07.5	34.47S	70.44W	5	3.3D	**¶97viii0030**
NEIC	VIII	01 05 37 07.5	34.42S	70.43W	5		
NEIC	Poor solution.						
ISC	**VIII**	**02 11 24 51**±3.1	**34.5S**±.17	**70.4W**±.22	**10**±8.7		**10 0-2**
GUC	VIII	02 11 24 51.2	34.46S	70.45W	5		**¶97viii0204**
NEIC	VIII	02 11 24 51.5	34.43S	70.43W	10		
NEIC	Poor solution.						
ISC	**VIII**	**02 23 54 56**±4.3	**33.4S**±.11	**70.8W**±.16	**94**±43		**10 0-1**
GUC	VIII	02 23 54 57.3	33.43S	70.77W	83		**¶97viii0273**
NEIC	VIII	02 23 54 57.5	33.41S	70.80W	80		
NEIC	Single network solution.						
ISC	**VIII**	**03 20 40 57**±2.6	**34.4S**±.15	**70.5W**±.19	**9**±8.4		**12 0-2**
GUC	VIII	03 20 40 56.5	34.44S	70.47W	4	3.6D	**¶97viii0410**
NEIC	VIII	03 20 40 57.5	34.37S	70.47W	10		
NEIC	Single network solution.						
ISC	**VIII**	**03 22 50 52**±2.0	**34.7S**±.19	**70.3W**±.30	**138**		**12 0-2**
NEIC	VIII	03 22 50 50.3	34.78S	70.25W	150		**¶97viii0424**
GUC	VIII	03 22 50 53.0	34.61S	70.31W	138	3.1D	
NEIC	Poor solution.						
ISC	**VIII**	**04 04 33 36**±3.0	**34.5S**±.16	**70.4W**±.21	**10**±7.7		**12 0-2**
NEIC	VIII	04 04 33 35.3	34.44S	70.42W	5		**¶97viii0457**
GUC	VIII	04 04 33 35.8	34.45S	70.46W	5	3.7D	
NEIC	Poor solution.						
ISC	**VIII**	**04 06 07 03.7**±.64	**33.58S**±.047	**70.68W**±.075	**11**±8.2		**12 0-1**
GUC	VIII	04 06 07 03.6	33.59S	70.66W	13		**¶97viii0464**
NEIC	VIII	04 06 07 03.7	33.57S	70.68W	10		
NEIC	Single network solution.						
ISC	**VIII**	**04 21 25 03**±1.8	**33.14S**±.082	**70.3W**±.17	**9**±11		**10 0-1**
GUC	VIII	04 21 25 03.1	33.14S	70.32W	5		**¶97viii0554**
NEIC	VIII	04 21 25 03.4	33.15S	70.31W	5		
NEIC	Single network solution.						
ISC	**VIII**	**05 01 36 46**±7.9	**33.0S**±.26	**70.3W**±.37	**115**±63		**11 0-2**
GUC	VIII	05 01 36 45.9	32.96S	70.18W	110	2.5D	**¶97viii0596**
NEIC	VIII	05 01 36 46.0	32.97S	70.22W	110		
NEIC	Single network solution.						
ISC	**VIII**	**05 18 24 03**±2.7	**33.72S**±.080	**70.9W**±.14	**71**±30		**11 0-1**
NEIC	VIII	05 18 24 03.0	33.72S	70.87W	70		**¶97viii0697**
GUC	VIII	05 18 24 03.3	33.71S	70.91W	66	2.7D	
NEIC	Single network solution.						
ISC	**VIII**	**06 00 57 56.4**±.88	**33.08S**±.096	**69.2W**±.10	**15**		**14 0-2**
GUC	VIII	06 00 57 56.8	33.09S	69.18W	15	3.8D	**¶97viii0741**
ISC	**VIII**	**08 00 35 58**±1.0	**23.10S**±.061	**67.9W**±.10	**141**±9.6	**3.9b**	**26 2-89**
NEIC	VIII	08 00 35 55.6	23.01S	67.92W	118	4.7b	**¶97viii1024**
EIDC	VIII	08 00 35 57.9	23.0S	67.8W	126	3.8b	
NEIC	Less reliable solution.						
ISC	**VIII**	**08 21 16 21**±2.6	**32.3S**±.17	**71.0W**±.23	**62**±23		**14 0-2**
NEIC	VIII	08 21 16 19.5	32.28S	70.96W	70		**¶97viii1165**
GUC	VIII	08 21 16 20.2	32.30S	70.98W	58	3.5D	

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	Poor solution.						
ISC	**VIII 09 06 36 58**±5.0	**32.0S**±.41	**70.9W**±.26	**98**		**13**	**1-3**
NEIC	VIII 09 06 36 57.2	32.02S	70.85W	100			**¶97viii1212**
GUC	VIII 09 06 36 57.5	32.02S	70.86W	98	3.6D		
NEIC	Poor solution.						
ISC	**VIII 09 08 35 12**±3.2	**33.92S**±.073	**70.0W**±.22	**12**±16		**12**	**0-1**
NEIC	VIII 09 08 35 08.4	34.00S	69.85W	5			**¶97viii1224**
GUC	VIII 09 08 35 11.8	33.91S	70.07W	4	3.3D		
NEIC	Single network solution.						
ISC	**VIII 09 18 06 36**±9.4	**32.4S**±.55	**70.6W**±.30	**95**±54		**12**	**0-2**
GUC	VIII 09 18 06 33.9	32.29S	70.51W	106	2.8D		**¶97viii1299**
NEIC	VIII 09 18 06 34.5	32.33S	70.48W	100			
NEIC	Poor solution.						
ISC	**VIII 10 13 40 03**±6.9	**34.3S**±.24	**70.8W**±.21	**112**±61		**12**	**0-2**
NEIC	VIII 10 13 40 04.7	34.28S	70.74W	100			**¶97viii1397**
GUC	VIII 10 13 40 05.3	34.30S	70.78W	94	2.8D		
NEIC	Single network solution.						
ISC	**VIII 10 16 23 03**±3.0	**32.4S**±.25	**70.3W**±.34	**112**		**11**	**0-2**
GUC	VIII 10 16 23 02.8	32.41S	70.36W	112	2.2D		**¶97viii1424**
NEIC	VIII 10 16 23 02.8	32.43S	70.31W	110			
NEIC	Poor solution.						
ISC	**VIII 10 19 08 06**±3.7	**33.3S**±.11	**70.6W**±.19	**85**±39		**10**	**0-1**
NEIC	VIII 10 19 08 04.2	33.32S	70.58W	100			**¶97viii1443**
GUC	VIII 10 19 08 06.3	33.32S	70.62W	82			
NEIC	Single network solution.						
ISC	**VIII 10 20 46 25**±6.9	**32.6S**±.40	**70.6W**±.21	**89**±43		**13**	**0-2**
NEIC	VIII 10 20 46 22.3	32.47S	70.49W	100			**¶97viii1458**
GUC	VIII 10 20 46 24.7	32.59S	70.57W	89	3.0D		
NEIC	Poor solution.						
ISC	**VIII 11 03 50 13**±1.1	**33.58S**±.047	**70.4W**±.11	**21**±14		**14**	**0-1**
GUC	VIII 11 03 50 12.7	33.58S	70.33W	14	3.2D		**¶97viii1501**
NEIC	VIII 11 03 50 13.1	33.57S	70.36W	15			
NEIC	Single network solution.						
ISC	**VIII 11 07 29 02**±2.8	**33.91S**±.065	**70.1W**±.21	**12**±11		**12**	**0-1**
NEIC	VIII 11 07 29 00.8	33.94S	70.02W	10			**¶97viii1524**
GUC	VIII 11 07 29 02.4	33.90S	70.15W	8	3.0D		
NEIC	Single network solution.						
ISC	**VIII 11 08 25 36**±3.8	**32.1S**±.32	**70.4W**±.32	**115**		**12**	**1-3**
GUC	VIII 11 08 25 32.7	31.81S	70.37W	117	3.4D		**¶97viii1531**
NEIC	VIII 11 08 25 33.8	31.90S	70.40W	115			
NEIC	Poor solution.						
ISC	**VIII 12 00 10 43**±4.1	**34.6S**±.21	**70.5W**±.24	**5**±10		**12**	**0-2**
GUC	VIII 12 00 10 40.2	34.71S	70.29W	0	3.2D		**¶97viii1651**
NEIC	VIII 12 00 10 43.0	34.54S	70.38W	5			
NEIC	Poor solution.						
ISC	**VIII 13 01 03 56**±4.4	**32.0S**±.37	**70.3W**±.37	**130**		**10**	**1-3**
GUC	VIII 13 01 03 53.8	31.78S	70.31W	135	2.3D		**¶97viii1833**
NEIC	VIII 13 01 03 54.6	31.85S	70.22W	130			
NEIC	Poor solution.						
ISC	**VIII 13 05 16 55**±2.0	**34.7S**±.20	**70.8W**±.22	**90**		**9**	**0-1**
GUC	VIII 13 05 16 55.4	34.67S	70.81W	90			**¶97viii1855**
ISC	**VIII 13 21 19 48.7**±.73	**33.18S**±.062	**70.85W**±.084	**9**±12		**11**	**0-1**
GUC	VIII 13 21 19 48.5	33.19S	70.86W	7	3.1D		**¶97viii1959**
NEIC	VIII 13 21 19 48.5	33.18S	70.85W	10			
NEIC	Single network solution.						
ISC	**VIII 13 23 32 35**±8.7	**33.0S**±.28	**70.4W**±.49	**98**±63		**8**	**0-1**
NEIC	VIII 13 23 32 34.5	32.97S	70.35W	100			**¶97viii1982**
GUC	VIII 13 23 32 35.0	33.00S	70.38W	99	1.9D		
NEIC	Single network solution.						
ISC	**VIII 14 10 10 25**±4.8	**34.2S**±.17	**70.6W**±.23	**99**±40		**13**	**0-2**
GUC	VIII 14 10 10 24.1	34.21S	70.52W	105	3.2D		**¶97viii2043**
NEIC	VIII 14 10 10 24.5	34.21S	70.54W	100			
NEIC	Single network solution.						
ISC	**VIII 14 15 34 38**±2.8	**32.5S**±.24	**70.4W**±.28	**110**		**10**	**0-2**
GUC	VIII 14 15 34 36.4	32.36S	70.32W	112	2.9D		**¶97viii2088**
NEIC	VIII 14 15 34 37.1	32.44S	70.32W	110			
NEIC	Poor solution.						
ISC	**VIII 14 20 23 00**±1.1	**36.8S**±.13	**70.8W**±.16	**177**±14	**4.5b**	**30**	**2-119**
GUC	VIII 14 20 23 01.5	36.75S	71.15W	134	4.4D		**¶97viii2107**
ISC	**VIII 14 23 12 51**±1.5	**34.4S**±.16	**70.7W**±.23	**115**		**10**	**0-2**
GUC	VIII 14 23 12 50.7	34.43S	70.60W	115			**¶97viii2126**
NEIC	VIII 14 23 12 51.0	34.44S	70.63W	110			
NEIC	Poor solution.						
ISC	**VIII 18 10 10 54**±1.1	**24.05S**±.058	**68.54W**±.076	**95**±11	**4.4b**	**65**	**3-167**
NEIC	VIII 18 10 10 55.3	23.99S	68.54W	103	4.6b		**¶97viii2659**
EIDC	VIII 18 10 10 56.5	24.0S	68.6W	103	4.1b		
NEIC	Felt I=IV MM in the epicentral area and II MM at Antofagasta.						
ISC	**VIII 20 06 17 13.1**±.87	**32.8S**±.12	**70.1W**±.17	**115**		**13**	**0-2**
NEIC	VIII 20 06 17 13.4	32.84S	70.15W	115			**¶97viii2921**
GUC	VIII 20 06 17 13.6	32.82S	70.16W	115	3.6D		
NEIC	Single network solution.						
ISC	**VIII 20 18 01 31**±1.5	**33.2S**±.14	**70.4W**±.36	**94**		**6**	**0-1**
GUC	VIII 20 18 01 30.7	33.20S	70.33W	94	2.3D		**¶97viii2998**
NEIC	VIII 20 18 01 30.7	33.19S	70.31W	90			
NEIC	Poor solution.						
ISC	**VIII 21 23 42 00**±6.1	**33.8S**±.24	**70.7W**±.26	**96**±50		**9**	**0-1**
NEIC	VIII 21 23 42 00.9	33.75S	70.66W	90			**¶97viii3163**
GUC	VIII 21 23 42 01.4	33.74S	70.69W	87	2.7D		
NEIC	Single network solution.						
ISC	**VIII 24 07 16 07**±4.9	**33.4S**±.13	**70.8W**±.22	**98**±44		**9**	**0-1**
GUC	VIII 24 07 16 08.3	33.42S	70.77W	83	2.2D		**¶97viii3491**
NEIC	VIII 24 07 16 08.5	33.42S	70.78W	80			
NEIC	Single network solution.						
ISC	**VIII 24 09 15 55**±8.1	**35.2S**±.68	**70.3W**±.47	**150**		**9**	**1-3**
NEIC	VIII 24 09 15 54.9	35.18S	70.28W	150			**¶97viii3509**
GUC	VIII 24 09 15 57.2	34.95S	70.40W	154	2.6D		
NEIC	Poor solution.						
ISC	**VIII 24 17 00 07**±13	**34.4S**±.65	**70.5W**±.39	**9**±30		**9**	**0-2**
NEIC	VIII 24 17 00 04.3	34.49S	70.41W	5			**¶97viii3565**
GUC	VIII 24 17 00 05.4	34.46S	70.42W	6	3.3D		
NEIC	Poor solution.						
GUC	**VIII 25 14 40 46.7**	**30.81S**	**70.66W**	**1**	**3.7D**		**¶97viii3704**
GUC	**VIII 28 00 09 00.6**	**36.05S**	**70.49W**	**216**	**3.9D**		**¶97viii4060**
ISC	**VIII 28 05 53 28**±9.1	**34.7S**±.55	**70.9W**±.22	**90**±55		**11**	**1-2**
NEIC	VIII 28 05 53 25.9	34.77S	70.89W	100			**¶97viii4090**
GUC	VIII 28 05 53 26.6	34.72S	70.91W	99	2.9D		
NEIC	Poor solution.						
ISC	**VIII 28 11 05 57**±4.0	**35.1S**±.36	**70.3W**±.37	**148**		**11**	**1-2**
GUC	VIII 28 11 05 57.9	35.00S	70.34W	148	3.1D		**¶97viii4119**
ISC	**VIII 28 15 05 32**±7.8	**34.5S**±.43	**70.5W**±.21	**7**±15		**11**	**0-2**
GUC	VIII 28 15 05 26.2	34.89S	70.31W	0	3.9D		**¶97viii4147**
ISC	**VIII 30 08 28 03**±4.1	**32.9S**±.19	**70.9W**±.16	**76**±35		**12**	**0-1**
GUC	VIII 30 08 28 03.6	32.92S	70.88W	72	3.0D		**¶97viii4457**
NEIC	VIII 30 08 28 03.8	32.93S	70.89W	70			
NEIC	Single network solution.						
ISC	**VIII 31 11 21 07**±3.6	**33.8S**±.11	**70.9W**±.13	**72**±37		**11**	**0-1**
NEIC	VIII 31 11 21 07.1	33.83S	70.89W	70			**¶97viii4644**
GUC	VIII 31 11 21 07.3	33.82S	70.91W	68	2.6D		
NEIC	Single network solution.						
ISC	**IX 01 05 48 38.1**±.64	**34.99S**±.066	**70.78W**±.091	**105**±5.6	**3.9b**	**29**	**1-85**
NEIC	IX 01 05 48 37.7	35.00S	70.72W	100	4.3b		**¶97ix0054**
GUC	IX 01 05 48 38.3	34.96S	71.03W	97	4.4D		
EIDC	IX 01 05 48 38.4	35.1S	70.8W	101	3.8b		
NEIC	Felt I=III MM at Talca, Chile.						
ISC	**IX 02 18 59 56**±3.0	**32.5S**±.25	**70.1W**±.35	**127**		**10**	**0-2**
NEIC	IX 02 18 59 54.9	32.48S	70.05W	130			**¶97ix0314**
GUC	IX 02 18 59 55.8	32.51S	70.10W	127	2.8D		
NEIC	Poor solution.						
ISC	**IX 02 22 15 42**±3.6	**33.54S**±.094	**70.8W**±.14	**73**±39		**10**	**0-1**
GUC	IX 02 22 15 41.8	33.52S	70.81W	71	2.5D		**¶97ix0338**
NEIC	IX 02 22 15 41.8	33.54S	70.81W	70			
NEIC	Single network solution.						
ISC	**IX 03 04 00 43.0**±.39	**33.71S**±.062	**70.28W**±.069	**108**±4.2	**3.9b**	**35**	**0-85**
NEIC	IX 03 04 00 42.4	33.74S	70.17W	107	4.3b		**¶97ix0375**
GUC	IX 03 04 00 44.0	33.70S	70.45W	104	4.4D		
EIDC	IX 03 04 00 44.5	33.7S	70.3W	107	3.9b		
NEIC	Felt I=III MM at Santiago and Talagante; II MM at Valparaiso, Chile.						
ISC	**IX 03 06 54 47**±6.4	**33.2S**±.15	**70.5W**±.26	**95**±54		**11**	**0-1**
NEIC	IX 03 06 54 46.2	33.17S	70.40W	100			**¶97ix0390**
GUC	IX 03 06 54 46.3	33.18S	70.46W	103	3.0D		
NEIC	Single network solution.						
ISC	**IX 03 08 29 13**±1.5	**33.0S**±.16	**70.3W**±.27	**107**		**9**	**0-1**
GUC	IX 03 08 29 13.0	32.95S	70.22W	107	2.8D		**¶97ix0400**
NEIC	IX 03 08 29 13.1	32.95S	70.25W	105			
NEIC	Single network solution.						
ISC	**IX 04 03 49 47**±1.6	**33.3S**±.14	**70.1W**±.27	**119**		**9**	**0-1**
NEIC	IX 04 03 49 46.7	33.31S	70.07W	120			**¶97ix0541**
GUC	IX 04 03 49 47.5	33.30S	70.16W	119	2.8D		
NEIC	Single network solution.						
ISC	**IX 06 05 54 55.9**±.94	**25.30S**±.055	**68.74W**±.085	**104**±10	**3.9b**	**36**	**3-146**
EIDC	IX 06 05 55 00.4	25.1S	68.7W	125	3.8b		**¶97ix0864**
ISC	**IX 06 19 30 59**±5.4	**31.7S**±.33	**70.7W**±.35	**129**±53		**11**	**1-2**
NEIC	IX 06 19 31 03.6	31.97S	70.68W	110			**¶97ix0957**
GUC	IX 06 19 31 04.0	31.98S	70.73W	110	3.5D		
NEIC	Poor solution.						
ISC	**IX 08 01 47 26**±4.2	**33.9S**±.16	**70.9W**±.14	**72**±41		**10**	**0-1**
GUC	IX 08 01 47 25.6	33.87S	70.93W	73	2.1D		**¶97ix1153**
NEIC	IX 08 01 47 25.8	33.87S	70.91W	70			
NEIC	Single network solution.						
ISC	**IX 08 07 55 30.6**±.62	**35.11S**±.059	**70.88W**±.091	**95**±5.6	**3.9b**	**31**	**1-85**
NEIC	IX 08 07 55 30.2	35.13S	70.83W	91	3.8b		**¶97ix1193**
GUC	IX 08 07 55 31.0	35.07S	71.15W	86	4.1D		
EIDC	IX 08 07 55 31.3	35.2S	71.0W	92	3.9b		
NEIC	Felt I=III MM at Curico and Talca, Chile.						
ISC	**IX 08 11 54 22.8**±.73	**34.51S**±.081	**70.8W**±.20	**98**±7.8	**3.6b**	**18**	**1-85**
EIDC	IX 08 11 54 15.4	34.4S	72.7W	0	3.8b,3.3L		**¶97ix1216**
NEIC	IX 08 11 54 22.6	34.50S	70.77W	99			
GUC	IX 08 11 54 23.0	34.44S	70.77W	103	3.8D		
NEIC	Less reliable solution.						
NEIC	Felt I=III MM at Curico and Talca, Chile.						
ISC	**IX 09 10 14 15**±12	**31.0S**±.96	**70.1W**±.59	**185**		**10**	**2-3**
GUC	IX 09 10 14 12.6	30.83S	70.11W	185			**¶97ix1356**
ISC	**IX 10 02 55 51**±2.9	**32.6S**±.23	**70.1W**±.33	**124**		**11**	**0-2**
NEIC	IX 10 02 55 48.7	32.54S	70.02W	130			**¶97ix1467**
GUC	IX 10 02 55 49.5	32.52S	70.05W	124	2.8D		
NEIC	Poor solution.						
ISC	**IX 10 08 34 51**±4.1	**33.1S**±.14	**70.9W**±.15	**76**±40		**10**	**0-1**
NEIC	IX 10 08 34 51.3	33.14S	70.92W	70			**¶97ix1501**
GUC	IX 10 08 34 51.7	33.16S	70.93W	67	1.9D		
NEIC	Single network solution.						
ISC	**IX 10 11 22 39**±1.2	**33.1S**±.13	**70.4W**±.22	**101**		**9**	**0-1**
GUC	IX 10 11 22 39.1	33.15S	70.33W	101			**¶97ix1518**
NEIC	IX 10 11 22 39.1	33.13S	70.35W	100			
NEIC	Single network solution.						
ISC	**IX 10 15 16 27**±5.8	**33.5S**±.13	**70.3W**±.32	**127**±49		**11**	**0-1**
NEIC	IX 10 15 16 27.1	33.55S	70.24W	120			**¶97ix1539**
GUC	IX 10 15 16 27.9	33.54S	70.34W	117	2.2D		
NEIC	Single network solution.						
ISC	**IX 10 18 43 35**±5.2	**33.4S**±.11	**70.4W**±.26	**90**±47		**10**	**0-1**
NEIC	IX 10 18 43 33.3	33.39S	70.24W	100			**¶97ix1561**
GUC	IX 10 18 43 33.9	33.37S	70.36W	100	1.9D		
NEIC	Single network solution.						
ISC	**IX 12 04 42 23**±4.6	**33.4S**±.10	**70.6W**±.18	**86**±46		**11**	**0-1**
NEIC	IX 12 04 42 22.5	33.35S	70.56W	90			**¶97ix1772**
GUC	IX 12 04 42 22.9	33.36S	70.61W	89	2.6D		
NEIC	Single network solution.						
ISC	**IX 12 10 25 38**±7.2	**31.8S**±.58	**70.1W**±.45	**142**		**10**	**1-3**
GUC	IX 12 10 25 35.5	31.56S	70.03W	142	3.4D		**¶97ix1804**
ISC	**IX 13 14 03 07**±7.2	**32.6S**±.39	**70.4W**±.25	**88**±47		**11**	**0-2**
GUC	IX 13 14 03 03.9	32.45S	70.29W	102	3.0D		**¶97ix1983**
NEIC	IX 13 14 03 04.4	32.51S	70.30W	100			
NEIC	Poor solution.						
ISC	**IX 14 16 10 02**±5.7	**33.8S**±.13	**70.7W**±.16	**86**±54		**11**	**0-1**
GUC	IX 14 16 10 02.1	33.85S	70.72W	80	2.8D		**¶97ix2146**
NEIC	IX 14 16 10 02.1	33.82S	70.74W	80			
NEIC	Single network solution.						
ISC	**IX 15 04 07 12**±4.6	**33.4S**±.12	**70.1W**±.33	**124**±36		**13**	**0-1**
GUC	IX 15 04 07 12.2	33.37S	70.06W	123	2.6D		**¶97ix2201**
NEIC	IX 15 04 07 12.3	33.39S	70.05W	120			
NEIC	Single network solution.						
ISC	**IX 15 12 09 01**±7.5	**31.8S**±.62	**70.5W**±.39	**130**		**11**	**1-3**
GUC	IX 15 12 08 59.0	31.59S	70.34W	129	3.1D		**¶97ix2242**
NEIC	IX 15 12 08 59.8	31.67S	70.38W	130			
NEIC	Poor solution.						
ISC	**IX 18 17 14 53**±6.9	**34.2S**±.21	**70.2W**±.36	**117**±54		**13**	**0-2**
NEIC	IX 18 17 14 50.7	34.31S	70.02W	130			**¶97ix2690**
GUC	IX 18 17 14 51.4	34.28S	70.02W	127	3.0D		
NEIC	Poor solution.						

ISC IX 18 18 26 37±4.2 **35.2S**±.41 **70.0W**±.74 **231** **7 1-2**
GUC IX 18 18 26 35.0 35.26S 69.77W 231 **¶97ix2696**
ISC IX 19 04 32 30±6.9 **32.5S**±.37 **70.5W**±.24 **100**±46 **12 0-2**
GUC IX 19 04 32 25.6 32.32S 70.28W 123 3.2D **¶97ix2748**
NEIC IX 19 04 32 26.0 32.34S 70.34W 120
NEIC Poor solution.
ISC IX 19 18 36 02±3.5 **34.5S**±.17 **70.4W**±.25 **15** **9 0-1**
GUC IX 19 18 36 01.4 34.51S 70.36W 15 2.9D **¶97ix2827**
ISC IX 20 09 20 59±4.0 **33.4S**±.11 **70.5W**±.23 **97**±36 **13 0-1**
NEIC IX 20 09 20 59.2 33.36S 70.40W 95 **¶97ix2921**
GUC IX 20 09 20 59.4 33.36S 70.41W 95 2.6D
NEIC Single network solution.
ISC IX 20 11 28 06±4.4 **33.9S**±.12 **70.8W**±.16 **78**±44 **11 0-1**
NEIC IX 20 11 28 06.0 33.96S 70.78W 80 **¶97ix2937**
GUC IX 20 11 28 06.3 33.92S 70.80W 78 2.6D
NEIC Single network solution.
ISC IX 20 19 50 28±6.9 **34.2S**±.22 **70.4W**±.33 **114**±56 **11 0-1**
NEIC IX 20 19 50 25.3 34.26S 70.25W 125 **¶97ix2995**
GUC IX 20 19 50 26.5 34.17S 70.32W 123
NEIC Poor solution.
ISC IX 20 23 37 24±1.1 **33.73S**±.047 **70.4W**±.12 **17**±24 **13 0-1**
GUC IX 20 23 37 22.9 33.72S 70.39W 10 3.1D **¶97ix3015**
NEIC IX 20 23 37 23.7 33.71S 70.41W 10
NEIC Single network solution.
ISC IX 21 07 36 46±3.8 **33.78S**±.093 **70.7W**±.16 **83**±37 **12 0-1**
NEIC IX 21 07 36 45.5 33.78S 70.70W 80 **¶97ix3058**
GUC IX 21 07 36 45.6 33.78S 70.70W 81 2.9D
NEIC Single network solution.
ISC IX 21 07 52 09±6.7 **34.3S**±.25 **70.6W**±.25 **108**±54 **13 0-2**
GUC IX 21 07 52 09.6 34.29S 70.63W 105 3.3D **¶97ix3063**
NEIC IX 21 07 52 10.1 34.26S 70.60W 100
NEIC Single network solution.
ISC IX 21 17 14 18±4.4 **31.8S**±.37 **70.3W**±.40 **144** **11 1-3**
GUC IX 21 17 14 15.8 31.65S 70.20W 144 2.8D **¶97ix3133**
NEIC IX 21 17 14 15.9 31.70S 70.19W 150
NEIC Poor solution.
ISC IX 25 05 13 46±4.8 **32.0S**±.38 **70.3W**±.41 **130** **13 1-3**
GUC IX 25 05 13 43.3 31.83S 70.10W 134 3.0D **¶97ix3684**
NEIC IX 25 05 13 44.3 31.88S 70.18W 130
NEIC Poor solution.
ISC IX 26 18 10 12±2.5 **33.15S**±.093 **70.3W**±.14 **112**±28 **15 0-2**
GUC IX 26 18 10 12.6 33.17S 70.34W 104 4.2D **¶97ix4101**
NEIC IX 26 18 10 12.8 33.13S 70.31W 100
NEIC Less reliable solution.
ISC IX 28 09 02 05±3.8 **34.1S**±.13 **70.8W**±.14 **85**±35 **13 0-1**
GUC IX 28 09 02 04.8 34.13S 70.83W 82 2.8D **¶97ix4599**
ISC IX 28 23 08 30±4.1 **32.2S**±.21 **70.0W**±.24 **134**±45 **14 1-3**
GUC IX 28 23 08 32.0 32.35S 70.05W 118 4.0D **¶97ix4784**
ISC IX 29 02 38 09±1.4 **32.1S**±.16 **70.1W**±.16 **119** **15 1-3**
GUC IX 29 02 38 09.9 32.12S 70.05W 119 3.8D **¶97ix4839**
ISC IX 29 12 24 13±8.7 **33.0S**±.30 **70.0W**±.45 **120**±63 **13 0-2**
GUC IX 29 12 24 13.0 32.96S 70.01W 119 2.5D **¶97ix4947**
ISC IX 30 00 18 02±2.9 **34.4S**±.15 **70.4W**±.21 **10**±7.4 **12 0-2**
GUC IX 30 00 18 01.5 34.46S 70.45W 6 3.5D **¶97ix5072**
ISC IX 30 23 59 43±3.7 **32.5S**±.26 **70.0W**±.40 **124** **12 1-2**
GUC IX 30 23 59 42.7 32.43S 69.94W 124 2.9D **¶97ix5337**
ISC X 01 16 36 21±3.3 **30.9S**±.31 **69.2W**±.19 **133**±27 **15 1-4**
NEIC X 01 16 36 20.3 30.86S 69.18W 150 **¶97x0121**
GUC X 01 16 36 24.8 31.21S 69.63W 178 3.8D
NEIC Poor solution.
ISC X 05 15 23 57±1.0 **32.77S**±.070 **70.7W**±.11 **42**±17 **17 0-5**
GUC X 05 15 23 57.0 32.76S 70.63W 41 **¶97x0880**
NEIC X 05 15 23 57.3 32.77S 70.60W 33
ISC X 07 10 53 09±3.1 **33.93S**±.099 **70.9W**±.13 **74**±33 **10 0-1**
GUC X 07 10 53 09.2 33.92S 70.89W 73 **¶97x1234**
NEIC X 07 10 53 09.6 33.91S 70.88W 70
NEIC Single network solution.
EIDC X 07 13 38 18.3 **24.0S** **67.7W** **32** 3.8b **¶97x1260**
ISC X 07 19 45 43±2.3 **34.4S**±.13 **70.5W**±.17 **10**±7.2 **13 0-2**
NEIC X 07 19 45 42.5 34.46S 70.43W 5 **¶97x1290**
GUC X 07 19 45 42.8 34.47S 70.43W 6 3.7D
NEIC Poor solution.
ISC X 07 22 37 09±4.6 **33.70S**±.093 **70.5W**±.23 **107**±42 **13 0-1**
GUC X 07 22 37 08.5 33.69S 70.46W 106 2.8D **¶97x1316**
NEIC X 07 22 37 09.0 33.69S 70.44W 100
NEIC Single network solution.
ISC X 09 08 42 12±3.0 **32.6S**±.14 **70.1W**±.15 **134**±35 **14 0-2**
NEIC X 09 08 42 12.7 32.58S 70.07W 120 **¶97x1560**
GUC X 09 08 42 14.0 32.65S 70.10W 116 3.3D
ISC X 10 05 48 53±6.7 **31.5S**±.42 **70.2W**±.32 **163**±49 **14 1-3**
NEIC X 10 05 48 56.3 31.63S 70.17W 130 **¶97x1699**
GUC X 10 05 48 58.8 31.79S 70.29W 127 3.3D
NEIC Less reliable solution.
ISC X 10 23 29 17±7.2 **32.9S**±.27 **70.3W**±.37 **107**±54 **13 0-2**
GUC X 10 23 29 16.7 32.93S 70.25W 104 3.5D **¶97x1811**
NEIC X 10 23 29 17.2 32.95S 70.30W 100
NEIC Single network solution.
ISC X 11 08 39 26±3.1 **33.27S**±.080 **70.1W**±.23 **13**±12 **13 0-2**
NEIC X 11 08 39 25.2 33.26S 70.05W 10 **¶97x1868**
GUC X 11 08 39 25.4 33.26S 70.07W 8 3.7D
NEIC Single network solution.
ISC X 11 16 02 37±3.3 **34.5S**±.15 **70.4W**±.22 **10** **11 0-1**
NEIC X 11 16 02 37.4 34.45S 70.37W 10 **¶97x1910**
GUC X 11 16 02 37.9 34.45S 70.42W 7 3.1D
NEIC Single network solution.
ISC X 12 14 54 31±6.0 **32.7S**±.31 **70.5W**±.20 **93**±41 **13 0-2**
NEIC X 12 14 54 29.8 32.64S 70.46W 100 **¶97x2059**
GUC X 12 14 54 30.2 32.69S 70.39W 99 3.0D
NEIC Single network solution.
ISC X 12 16 56 37±3.9 **32.3S**±.32 **70.5W**±.29 **100** **13 0-2**
GUC X 12 16 56 35.9 32.18S 70.39W 101 3.1D **¶97x2073**
NEIC X 12 16 56 36.4 32.23S 70.41W 100
NEIC Poor solution.
ISC X 13 02 53 14±4.7 **33.1S**±.18 **70.6W**±.20 **81**±44 **11 0-2**
GUC X 13 02 53 13.1 33.04S 70.52W 87 **¶97x2149**
NEIC X 13 02 53 13.8 33.05S 70.55W 80
NEIC Single network solution.
ISC X 13 08 15 12±2.4 **35.1S**±.23 **70.3W**±.35 **156** **14 1-2**
NEIC X 13 08 15 10.7 35.10S 70.18W 160 **¶97x2188**
GUC X 13 08 15 13.1 34.93S 70.35W 156 2.9D
NEIC Poor solution.
ISC X 15 01 53 45±4.8 **31.3S**±.30 **70.8W**±.84 **33** 4.1b **4 15-92**
EIDC X 15 01 53 40.4 31.4S 71.0W 0 4.3b,3.7L **¶97x2532**
ISC Poorly determined
ISC X 15 04 47 34±2.7 **31.0S**±.24 **70.7W**±.34 **33** 4.2b **6 2-92**
EIDC X 15 04 47 28.9 31.1S 71.0W 0 4.4b,3.4L **¶97x2567**
ISC X 16 10 14 52±2.2 **30.4S**±.12 **69.6W**±.29 **53**±29 **3.9b** **10 3-136**
NEIC X 16 10 14 51.6 30.41S 69.57W 50 **¶97x2821**
EIDC X 16 10 14 54.6 30.4S 69.5W 59 3.7b,3.5L
NEIC Less reliable solution.
ISC X 17 16 44 35.7±.73 **35.14S**±.061 **70.41W**±.081 **3** **4.0b,**3.6S **24 1-92**
GUC X 17 16 44 35.2 35.21S 70.62W 3 4.4D **¶97x3021**
NEIC X 17 16 44 41.0 35.16S 70.12W 47 3.8b
EIDC X 17 16 44 42.7 35.2S 70.0W 45 3.7b,3.6L
NEIC Less reliable solution.
ISC X 17 20 01 55±1.2 **30.84S**±.068 **70.95W**±.098 **103**±9.6 **4.9b** **58 2-165**
EIDC X 17 20 01 51.5 31.0S 71.2W 66 4.3b **¶97x3053**
NEIC X 17 20 01 54.3 30.85S 70.99W 100 5.0b
NEIC Felt I=IV MM at Coquimbo, Combarbala, Illapel, La Serena, Los Vilos, Ovalle, Punitaqui and Salamanca; III MM at Panquehue and San Felipe, Chile.
ISC X 18 10 58 45±1.1 **31.00S**±.063 **71.0W**±.11 **100**±9.8 **4.5b** **47 2-151**
EIDC X 18 10 58 41.2 31.1S 71.2W 63 4.5b,3.2s **¶97x3145**
NEIC X 18 10 58 44.5 31.01S 70.99W 100 4.6b
ISC X 19 04 11 33±2.3 **34.04S**±.079 **70.1W**±.19 **15** **12 0-1**
GUC X 19 04 11 33.4 34.05S 70.09W 15 3.2D **¶97x3284**
ISC X 19 05 30 26±6.7 **34.8S**±.41 **70.7W**±.19 **5**±12 **9 0-1**
GUC X 19 05 30 19.6 35.17S 70.60W 1 **¶97x3297**
ISC X 19 10 12 27.4±.58 **36.30S**±.052 **70.37W**±.073 **155**±4.7 **4.5b** **82 2-165**
GUC X 19 10 12 27.8 36.12S 70.86W 184 4.8D **¶97x3328**
NEIC X 19 10 12 28.0 36.31S 70.30W 161 4.9b
EIDC X 19 10 12 29.8 36.4S 70.3W 161 4.4b
ISC X 19 13 06 49±5.2 **30.6S**±.57 **69.0W**±.33 **183** **12 3-4**
GUC X 19 13 06 58.7 31.23S 69.59W 183 **¶97x3353**
ISC X 20 01 38 13±6.1 **32.1S**±.48 **71.0W**±.28 **98** **11 1-3**
GUC X 20 01 38 13.1 32.07S 70.97W 98 3.3D **¶97x3417**
ISC X 20 03 56 39±2.7 **33.90S**±.070 **70.0W**±.24 **15** **10 0-1**
GUC X 20 03 56 39.0 33.92S 70.05W 15 3.1D **¶97x3430**
ISC X 20 05 10 04±2.4 **33.46S**±.070 **70.0W**±.20 **10** **11 0-1**
GUC X 20 05 10 04.8 33.46S 70.06W 10 3.3D **¶97x3443**
ISC X 21 07 22 13±8.6 **32.1S**±.65 **70.9W**±.63 **87** **8 1-3**
GUC X 21 07 22 05.5 31.61S 71.39W 87 **¶97x3620**
ISC X 21 15 45 32±3.4 **34.1S**±.12 **70.9W**±.14 **78**±34 **12 0-1**
GUC X 21 15 45 31.6 34.11S 70.88W 77 3.3D **¶97x3674**
GUC X 22 02 45 15.3 **30.75S** **70.59W** **73** **3.6D** **¶97x3740**
GUC X 23 00 01 12.0 **31.81S** **70.00W** **151** **¶97x3901**
GUC X 23 01 59 47.4 **33.92S** **70.11W** **5** **¶97x3907**
GUC X 23 06 20 03.6 **35.19S** **70.60W** **1** **¶97x3935**
GUC X 23 10 16 02.9 **33.92S** **70.10W** **7** **¶97x3968**
GUC X 23 10 41 08.0 **33.91S** **70.11W** **5** **¶97x3971**
GUC X 23 21 44 11.3 **32.15S** **70.26W** **122** **3.4D** **¶97x4071**
GUC X 23 22 34 48.6 **30.44S** **70.97W** **49** **3.8D** **¶97x4077**
ISC X 24 08 29 54±2.8 **32.5S**±.23 **70.9W**±.22 **77** **11 0-2**
GUC X 24 08 29 54.5 32.52S 70.84W 77 3.0D **¶97x4126**
GUC X 25 01 28 19.2 **32.30S** **70.07W** **124** **2.6D** **¶97x4249**
ISC X 25 07 31 02±3.6 **32.0S**±.22 **70.4W**±.21 **121**±35 **14 1-3**
GUC X 25 07 31 04.7 32.16S 70.47W 103 3.8D **¶97x4294**
ISC X 25 09 51 44±4.2 **34.7S**±.26 **70.7W**±.15 **3**±10 **12 0-2**
GUC X 25 09 51 35.6 35.19S 70.62W 0 3.7D **¶97x4309**
ISC X 25 09 59 34±3.0 **34.6S**±.20 **70.8W**±.13 **5**±9.6 **12 0-2**
GUC X 25 09 59 24.7 35.20S 70.61W 0 3.5D **¶97x4311**
ISC X 25 12 20 01±4.3 **34.7S**±.26 **70.7W**±.15 **3**±10 **12 0-2**
GUC X 25 12 19 52.7 35.18S 70.58W 0 3.6D **¶97x4322**
ISC X 25 19 56 24±4.2 **34.3S**±.16 **70.9W**±.15 **84**±38 **12 0-2**
GUC X 25 19 56 24.4 34.27S 70.92W 81 3.0D **¶97x4366**
ISC X 26 14 57 09±3.6 **34.6S**±.27 **70.8W**±.24 **1**±20 **7 0-2**
GUC X 26 14 56 59.9 35.18S 70.65W 0 **¶97x4479**
ISC X 28 08 16 38±1.9 **23.8S**±.14 **67.1W**±.20 **242**±22 3.6b **8 8-132**
NEIC X 28 08 16 37.2 23.81S 67.11W 236 **¶97x4730**
EIDC X 28 08 16 38.9 23.8S 67.0W 237 3.5b
NEIC Single network solution.
ISC X 28 16 22 15±7.0 **33.8S**±.12 **70.2W**±.35 **116**±60 **12 0-1**
GUC X 28 16 22 14.7 33.79S 70.16W 117 3.1D **¶97x4789**
ISC X 29 03 27 53±3.9 **33.3S**±.12 **70.5W**±.23 **99**±34 **12 0-1**
GUC X 29 03 27 53.3 33.28S 70.50W 94 3.0D **¶97x4847**
ISC X 30 22 34 23±7.3 **34.7S**±.44 **70.7W**±.23 **5**±11 **10 0-2**
GUC X 30 22 34 15.7 35.15S 70.55W 0 3.8D **¶97x5098**
ISC XI 02 01 01 12±2.5 **34.4S**±.14 **70.5W**±.18 **9**±8.1 **11 0-2**
GUC XI 02 01 01 11.7 34.46S 70.45W 4 3.5D **¶97xi0175**
NEIC XI 02 01 01 12.2 34.43S 70.50W 5
NEIC Single network solution.
ISC XI 03 03 14 24±6.8 **32.9S**±.30 **70.3W**±.34 **100**±47 **12 0-2**
NEIC XI 03 03 14 22.0 32.80S 70.21W 110 **¶97xi0389**
GUC XI 03 03 14 22.6 32.82S 70.19W 106 2.7D
NEIC Single network solution.
ISC XI 05 03 27 57±12 **30.9S**±.96 **69.9W**±.68 **199** **9 2-3**
GUC XI 05 03 27 54.8 30.72S 69.77W 199 3.4D **¶97xi0723**
ISC XI 05 08 13 04±1.2 **24.3S**±.11 **67.2W**±.17 **184**±12 3.0b **10 2-131**
EIDC XI 05 08 13 03.2 24.2S 67.1W 161 3.0b **¶97xi0755**
NEIC XI 05 08 13 03.4 24.23S 67.15W 181
NEIC Less reliable solution.
ISC XI 05 08 44 16±3.6 **34.4S**±.23 **70.4W**±.18 **10**±9.3 **10 0-2**
GUC XI 05 08 44 15.9 34.41S 70.41W 8 4.0D **¶97xi0757**
NEIC XI 05 08 44 16.0 34.39S 70.43W 10
NEIC Single network solution.
ISC XI 05 23 14 15±1.4 **33.59S**±.060 **70.4W**±.13 **19**±21 **9 0-1**
GUC XI 05 23 14 14.8 33.58S 70.37W 13 3.4D **¶97xi0878**
NEIC XI 05 23 14 15.1 33.59S 70.37W 15
NEIC Single network solution.
ISC XI 09 10 49 30±3.2 **31.5S**±.33 **70.2W**±.29 **135** **11 1-3**
NEIC XI 09 10 49 30.8 31.48S 70.14W 130 **¶97xi1437**
GUC XI 09 10 49 33.6 31.70S 70.31W 135 3.3D
NEIC Poor solution.
ISC XI 09 23 35 02±8.0 **32.9S**±.31 **70.3W**±.40 **97**±55 **10 0-1**
NEIC XI 09 23 34 59.6 32.78S 70.17W 110 **¶97xi1526**
GUC XI 09 23 35 00.2 32.80S 70.19W 107 3.3D
NEIC Single network solution.
ISC XI 11 05 43 46±2.8 **33.3S**±.12 **70.0W**±.14 **131**±30 **13 0-2**
NEIC XI 11 05 43 46.5 33.28S 69.98W 120 **¶97xi1745**
GUC XI 11 05 43 47.3 33.28S 70.08W 120 3.5D
NEIC Less reliable solution.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XI 13 23 27 18**±1.0	**24.31S**±.056	**68.73W**±.084	**89**±10	**4.4b**	**59**	**3-167**
NEIC	XI 13 23 27 18.4	24.32S	68.76W	95	4.6b		**¶97xi2204**
EIDC	XI 13 23 27 20.0	24.4S	69.0W	96	4.2b		
ISC	**XI 14 11 36 25**±6.4	**32.8S**±.29	**70.8W**±.21	**79**±55		**9**	**0-1**
NEIC	XI 14 11 36 23.9	32.78S	70.80W	80			**¶97xi2281**
GUC	XI 14 11 36 24.4	32.80S	70.84W	76	2.6D		
NEIC	Single network solution.						
ISC	**XI 17 15 50 28**±8.6	**34.4S**±.51	**70.4W**±.37	**12**±11		**8**	**0-1**
NEIC	XI 17 15 50 26.3	34.50S	70.36W	10			**¶97xi2823**
GUC	XI 17 15 50 27.8	34.44S	70.37W	9	3.7D		
NEIC	Poor solution.						
ISC	**XI 19 19 47 25**±12	**34.8S**±.79	**70.9W**±.29	**89**±53		**9**	**1-2**
NEIC	XI 19 19 47 24.9	34.79S	70.89W	90			**¶97xi3300**
GUC	XI 19 19 47 26.3	34.66S	70.96W	92	3.5D		
NEIC	Poor solution.						
ISC	**XI 20 08 51 24**±6.2	**33.8S**±.20	**70.0W**±.42	**9**		**9**	**1-1**
NEIC	XI 20 08 51 24.6	33.82S	70.02W	10			**¶97xi3425**
GUC	XI 20 08 51 27.2	33.74S	70.19W	9	3.7D		
NEIC	Single network solution.						
ISC	**XI 20 17 20 26**±18	**34.2S**±.65	**70.1W**±.81	**4**±38		**8**	**1-1**
NEIC	XI 20 17 20 26.2	34.19S	70.06W	5			**¶97xi3505**
GUC	XI 20 17 20 27.0	34.13S	70.09W	2	3.6D		
NEIC	Poor solution.						
ISC	**XI 20 17 42 41**±6.2	**33.6S**±.21	**70.9W**±.17	**71**±59		**7**	**0-1**
NEIC	XI 20 17 42 41.3	33.62S	70.87W	70			**¶97xi3510**
GUC	XI 20 17 42 41.6	33.61S	70.88W	67			
NEIC	Single network solution.						
ISC	**XI 20 22 06 58.3**±.79	**24.41S**±.068	**67.1W**±.14	**189**±8.0	4.1b	**19**	**2-145**
NEIC	XI 20 22 06 58.2	24.40S	67.12W	184	4.4b		**¶97xi3539**
EIDC	XI 20 22 06 58.2	24.3S	67.1W	164	4.1b		
NEIC	Less reliable solution.						
ISC	**XI 21 02 58 06**±1.2	**30.2S**±.15	**69.2W**±.30	**186**		**13**	**1-5**
NEIC	XI 21 02 58 06.7	30.26S	69.16W	180			**¶97xi3571**
GUC	XI 21 02 58 10.3	30.38S	69.84W	186	3.8D		
NEIC	Less reliable solution.						
ISC	**XI 21 12 59 52**±5.2	**30.8S**±.47	**69.9W**±.25	**149**		**11**	**1-3**
GUC	XI 21 13 00 00.6	31.53S	69.99W	149	3.4D		**¶97xi3657**
ISC	**XI 22 15 24 26**±3.4	**34.87S**±.075	**70.24W**±.097	**13**±24	**3.7b**,3.7s	**21**	**1-92**
GUC	XI 22 15 24 26.0	34.84S	70.26W	0			**¶97xi3901**
NEIC	XI 22 15 24 26.4	34.81S	70.19W	10	3.5b		
EIDC	XI 22 15 24 31.7	34.9S	70.4W	50	3.4b,3.6L		
ISC	**XI 22 18 28 25**±3.2	**31.4S**±.33	**70.1W**±.26	**139**		**11**	**1-3**
GUC	XI 22 18 28 29.6	31.86S	69.98W	139	3.5D		**¶97xi3937**
GUC	**XI 23 10 21 54.5**	**34.97S**	**70.16W**	**15**	**3.9b**		**¶97xi4092**
GUC	**XI 23 21 49 37.3**	**35.18S**	**70.55W**	**125**			**¶97xi4205**
ISC	**XI 25 08 53 34**±9.8	**32.4S**±.60	**70.8W**±.24	**66**±56		**9**	**0-2**
NEIC	XI 25 08 53 28.5	32.11S	70.69W	90			**¶97xi4477**
GUC	XI 25 08 53 29.1	32.14S	70.70W	87	3.3D		
NEIC	Poor solution.						
ISC	**XI 25 16 25 56**±1.3	**33.8S**±.14	**70.3W**±.23	**110**		**8**	**0-1**
NEIC	XI 25 16 25 55.4	33.81S	70.24W	110			**¶97xi4546**
GUC	XI 25 16 25 55.7	33.87S	70.29W	112			
NEIC	Single network solution.						
ISC	**XI 26 18 45 42**±1.2	**24.2S**±.11	**67.1W**±.18	**194**±12	**3.4b**	**12**	**2-145**
NEIC	XI 26 18 45 41.9	24.19S	67.08W	192			**¶97xi4733**
EIDC	XI 26 18 45 43.0	24.2S	67.0W	185	3.4b		
NEIC	Less reliable solution.						
ISC	**XI 27 01 32 23**±4.9	**31.8S**±.41	**70.0W**±.43	**154**		**9**	**1-2**
GUC	XI 27 01 32 21.7	31.78S	69.99W	154			**¶97xi4774**
NEIC	XI 27 01 32 22.5	31.83S	69.98W	150			
NEIC	Poor solution.						
GUC	**XI 27 20 54 57.1**	**30.80S**	**70.76W**	**32**			**¶97xi4937**
ISC	**XI 30 12 52 15**±2.1	**34.3S**±.14	**70.53W**±.083	**3**±9.8		**13**	**0-3**
GUC	XI 30 12 52 13.5	34.46S	70.40W	7	4.3D		**¶97xi5413**
NEIC	XI 30 12 52 14.1	34.41S	70.44W	10			
NEIC	Less reliable solution.						
ISC	**XII 04 00 28 40**±7.8	**32.7S**±.41	**70.4W**±.27	**93**±53		**11**	**0-2**
GUC	XII 04 00 28 37.5	32.54S	70.26W	107	2.9D		**¶97xii0523**
NEIC	XII 04 00 28 38.4	32.58S	70.32W	100			
NEIC	Single network solution.						
ISC	**XII 07 18 34 17**±2.1	**32.7S**±.18	**70.2W**±.27	**113**		**12**	**0-2**
GUC	XII 07 18 34 17.3	32.66S	70.22W	113			**¶97xii1762**
NEIC	XII 07 18 34 17.3	32.64S	70.22W	110			
NEIC	Single network solution.						
ISC	**XII 09 19 09 58**±4.9	**32.7S**±.29	**70.9W**±.17	**57**±37		**12**	**0-2**
NEIC	XII 09 19 09 56.5	32.60S	70.88W	70			**¶97xii2221**
GUC	XII 09 19 09 56.8	32.62S	70.92W	67	2.6D		
NEIC	Single network solution.						
ISC	**XII 10 05 14 41.3**±.44	**32.58S**±.064	**70.34W**±.088	**103**±6.7	**3.9b**	**29**	**0-152**
NEIC	XII 10 05 14 40.9	32.55S	70.33W	102	4.1b		**¶97xii2296**
GUC	XII 10 05 14 41.4	32.56S	70.49W	103	4.4D		
EIDC	XII 10 05 14 41.8±3.93	32.6S	70.2W	94±38.7	3.7b		
EIDC	Error ellipse is semi−major=36.4km semi−minor=31.9km azimuth=164						
ISC	**XII 10 06 55 03**±4.7	**34.7S**±.27	**70.6W**±.18	**4**±9.9		**13**	**0-2**
GUC	XII 10 06 54 58.6	34.93S	70.52W	0	3.4D		**¶97xii2310**
NEIC	XII 10 06 55 02.4	34.70S	70.64W	5			
NEIC	Single network solution.						
ISC	**XII 11 06 16 47**±3.6	**32.2S**±.30	**70.6W**±.26	**102**		**14**	**0-2**
GUC	XII 11 06 16 46.4	32.21S	70.54W	102	3.5D		**¶97xii2506**
NEIC	XII 11 06 16 46.8	32.25S	70.57W	100			
NEIC	Poor solution.						
ISC	**XII 11 21 18 24**±7.7	**32.5S**±.45	**70.4W**±.30	**95**±43		**13**	**0-2**
GUC	XII 11 21 18 17.5	32.11S	70.07W	120	3.7D		**¶97xii2640**
NEIC	XII 11 21 18 18.3	32.16S	70.18W	120			
NEIC	Poor solution.						
ISC	**XII 15 16 15 24**±4.4	**34.2S**±.15	**70.6W**±.20	**92**±38		**13**	**0-1**
NEIC	XII 15 16 15 23.5	34.16S	70.58W	90			**¶97xii3309**
GUC	XII 15 16 15 23.7	34.15S	70.60W	89	3.4D		
NEIC	Single network solution.						
ISC	**XII 16 06 53 42**±1.0	**33.74S**±.043	**70.4W**±.11	**17**±25		**13**	**0-1**
GUC	XII 16 06 53 41.4	33.74S	70.38W	14	3.4D		**¶97xii3398**
NEIC	XII 16 06 53 41.9	33.74S	70.41W	13			
NEIC	Single network solution.						
ISC	**XII 16 07 55 33**±3.7	**33.36S**±.097	**70.8W**±.15	**80**±38		**13**	**0-1**
NEIC	XII 16 07 55 32.3	33.35S	70.76W	80			**¶97xii3409**
GUC	XII 16 07 55 32.6	33.35S	70.74W	78	2.4D		
NEIC	Single network solution.						
ISC	**XII 16 08 24 38**±2.6	**34.3S**±.11	**70.3W**±.20	**14**±7.1		**13**	**0-2**
GUC	XII 16 08 24 37.1	34.36S	70.24W	11	3.5D		**¶97xii3416**
NEIC	XII 16 08 24 37.7	34.33S	70.30W	16			
NEIC	Single network solution.						
ISC	**XII 16 08 43 07**±2.8	**34.3S**±.11	**70.3W**±.21	**12**±7.6		**13**	**0-2**
NEIC	XII 16 08 43 05.0	34.37S	70.17W	6			**¶97xii3418**
GUC	XII 16 08 43 06.3	34.36S	70.23W	11	3.5D		
NEIC	Single network solution.						
ISC	**XII 17 05 45 23**±1.6	**24.1S**±.25	**67.1W**±.21	**200**	**3.4b**	**7**	**8-94**
EIDC	XII 17 05 45 22.6	24.2S	67.1W	188±128.2	3.3b		**¶97xii3560**
NEIC	XII 17 05 45 23.0	24.04S	67.02W	200			
EIDC	Origin time error = 19.13Error ellipse is semi−major=213.8km semi−minor=28.1km azimuth=22						
NEIC	Poor solution.						
ISC	**XII 17 13 00 29**±3.6	**32.3S**±.29	**71.0W**±.22	**79**		**13**	**0-2**
GUC	XII 17 13 00 27.8	32.28S	71.01W	79	3.3D		**¶97xii3608**
NEIC	XII 17 13 00 28.1	32.31S	70.99W	80			
NEIC	Poor solution.						
ISC	**XII 18 02 12 01**±3.9	**32.1S**±.33	**70.4W**±.41	**114**		**9**	**1-3**
GUC	XII 18 02 12 00.5	32.04S	70.45W	114	2.6D		**¶97xii3694**
NEIC	XII 18 02 12 00.8	32.07S	70.40W	110			
NEIC	Poor solution.						
ISC	**XII 18 02 35 19**±7.9	**30.9S**±.29	**71.0W**±.78	**97**±45	4.6b	**6**	**2-74**
							¶97xii3699
ISC	**XII 18 11 10 01**±2.5	**34.4S**±.14	**70.5W**±.18	**9**±7.8		**12**	**0-2**
GUC	XII 18 11 10 00.5	34.47S	70.43W	4	3.3D		**¶97xii3754**
NEIC	XII 18 11 10 01.0	34.43S	70.47W	5			
NEIC	Single network solution.						
ISC	**XII 19 01 39 10**±6.0	**34.2S**±.21	**70.5W**±.25	**106**±49		**13**	**0-2**
GUC	XII 19 01 39 08.6	34.26S	70.39W	113			**¶97xii3870**
NEIC	XII 19 01 39 10.0	34.23S	70.49W	100			
NEIC	Single network solution.						
ISC	**XII 20 01 20 54**±1.2	**23.5S**±.16	**67.6W**±.12	**167**±8.8	**4.0b**	**29**	**2-144**
NEIC	XII 20 01 20 45.5	23.64S	67.79W	100	4.2b		**¶97xii4068**
EIDC	XII 20 01 20 48.7	23.6S	67.8W	115±104.1	4.0b		
NEIC	Less reliable solution.						
EIDC	Origin time error = 12.68Error ellipse is semi−major=66.0km semi−minor=19.0km azimuth=36						
ISC	**XII 21 19 05 38**±1.4	**33.1S**±.12	**70.3W**±.25	**111**		**11**	**0-2**
GUC	XII 21 19 05 37.9	33.07S	70.27W	111			**¶97xii4294**
NEIC	XII 21 19 05 38.7	33.09S	70.25W	100			
NEIC	Single network solution.						
ISC	**XII 23 03 15 14**±3.8	**34.3S**±.17	**71.0W**±.14	**74**±36		**12**	**0-2**
NEIC	XII 23 03 15 12.8	34.36S	70.94W	80			**¶97xii4528**
GUC	XII 23 03 15 13.1	34.34S	70.92W	78			
NEIC	Single network solution.						
ISC	**XII 23 09 15 47**±3.3	**34.2S**±.13	**70.9W**±.14	**74**±33		**13**	**0-2**
NEIC	XII 23 09 15 46.6	34.20S	70.93W	80			**¶97xii4576**
GUC	XII 23 09 15 47.1	34.19S	70.91W	76			
NEIC	Single network solution.						
ISC	**XII 23 13 27 18**±2.7	**34.3S**±.11	**70.3W**±.24	**13**±8.0		**11**	**0-2**
GUC	XII 23 13 27 16.7	34.36S	70.22W	9	3.1D		**¶97xii4605**
NEIC	XII 23 13 27 17.0	34.34S	70.24W	10			
NEIC	MD3.1(SAN), Single network solution.						
ISC	**XII 25 09 11 45**±7.6	**32.5S**±.42	**70.5W**±.24	**102**±49		**13**	**0-2**
GUC	XII 25 09 11 44.0	32.49S	70.46W	102	2.6D		**¶97xii4902**
NEIC	XII 25 09 11 44.2	32.51S	70.45W	100			
NEIC	Single network solution.						
ISC	**XII 26 15 35 02**±1.9	**32.8S**±.11	**70.4W**±.14	**125**±20		**17**	**0-5**
NEIC	XII 26 15 35 04.5	32.85S	70.39W	100			**¶97xii5166**
GUC	XII 26 15 35 05.5	32.88S	70.38W	92	4.1D		
NEIC	Less reliable solution.						
NEIC	Felt I=II MM at Santiago, Chile.						
ISC	**XII 27 14 46 09**±4.0	**31.9S**±.35	**70.5W**±.20	**116**		**13**	**1-3**
NEIC	XII 27 14 46 08.3	31.82S	70.46W	120			**¶97xii5305**
GUC	XII 27 14 46 08.6	31.83S	70.45W	116			
NEIC	Poor solution.						
ISC	**XII 28 05 03 39**±5.6	**33.5S**±.10	**70.3W**±.29	**118**±48		**14**	**0-1**
GUC	XII 28 05 03 38.9	33.49S	70.22W	113	3.3D		**¶97xii5399**
NEIC	XII 28 05 03 39.1	33.50S	70.25W	110			
NEIC	Single network solution.						
ISC	**XII 28 19 57 26**±5.1	**34.7S**±.26	**70.5W**±.24	**3**±11		**12**	**0-2**
GUC	XII 28 19 57 22.8	34.84S	70.32W	0			**¶97xii5489**
NEIC	XII 28 19 57 26.8	34.64S	70.50W	10			
NEIC	Single network solution.						
ISC	**XII 29 00 48 21**±4.2	**34.3S**±.14	**70.1W**±.28	**12**±11		**11**	**0-1**
NEIC	XII 29 00 48 19.7	34.31S	70.10W	10			**¶97xii5522**
GUC	XII 29 00 48 21.0	34.29S	70.18W	11	3.2D		
NEIC	Single network solution.						
ISC	**XII 29 01 47 15**±4.8	**33.63S**±.092	**70.4W**±.24	**109**±44		**13**	**0-1**
GUC	XII 29 01 47 15.8	33.61S	70.41W	103	2.1D		**¶97xii5527**
NEIC	XII 29 01 47 15.9	33.63S	70.42W	100			
NEIC	Single network solution.						
ISC	**XII 29 09 35 05**±6.2	**31.8S**±.48	**70.0W**±.45	**150**		**12**	**1-3**
GUC	XII 29 09 35 02.0	31.62S	69.93W	156	3.0D		**¶97xii5569**
NEIC	XII 29 09 35 03.2	31.70S	69.92W	150			
NEIC	Poor solution.						
ISC	**XII 30 05 34 42**±3.4	**33.83S**±.083	**70.8W**±.13	**84**±34		**14**	**0-1**
NEIC	XII 30 05 34 40.0	33.85S	70.76W	100			**¶97xii5686**
GUC	XII 30 05 34 42.0	33.82S	70.80W	81	3.0D		
NEIC	Single network solution.						
ISC	**XII 30 10 16 29**±3.9	**33.71S**±.080	**70.6W**±.19	**89**±37		**13**	**0-1**
GUC	XII 30 10 16 28.2	33.70S	70.54W	92	2.3D		**¶97xii5721**
NEIC	XII 30 10 16 28.2	33.71S	70.53W	90			
ISC	**XII 31 06 40 36**±3.3	**34.4S**±.16	**70.4W**±.23	**10**±8.6		**10**	**0-1**
NEIC	XII 31 06 40 35.4	34.46S	70.39W	10			**¶97xii5846**
GUC	XII 31 06 40 35.8	34.46S	70.43W	4			
NEIC	Single network solution.						
ISC	**XII 31 06 47 12**±2.5	**34.4S**±.13	**70.5W**±.18	**9**±8.1		**13**	**0-2**
GUC	XII 31 06 47 10.9	34.48S	70.40W	5	3.0D		**¶97xii5848**
NEIC	XII 31 06 47 11.5	34.44S	70.44W	10			
NEIC	Single network solution.						
ISC	**XII 31 07 56 43**±6.3	**31.7S**±.52	**70.3W**±.53	**153**		**11**	**1-3**
GUC	XII 31 07 56 41.0	31.54S	70.24W	153	2.1D		**¶97xii5858**
NEIC	XII 31 07 56 41.5	31.58S	70.19W	150			
NEIC	Poor solution.						
ISC	**XII 31 15 29 05**±3.4	**34.3S**±.12	**70.2W**±.24	**11**±10		**13**	**0-2**
NEIC	XII 31 15 29 04.9	34.30S	70.17W	10			**¶97xii5920**
GUC	XII 31 15 29 05.2	34.28S	70.18W	7	3.7D		
NEIC	Single network solution.						
ISC	**XII 31 22 30 37**±7.3	**33.1S**±.19	**70.0W**±.47	**113**±59		**11**	**0-2**
NEIC	XII 31 22 30 36.6	33.10S	69.96W	110			**¶97xii5989**
GUC	XII 31 22 30 36.9	33.07S	70.00W	110	2.5D		

NEIC Single network solution.

(128) Jujuy Province, Argentina.

ISC	**VII**	**02 11 46 41.3**±.73	**22.84S**±.085	**66.59W**±.087	**231**±6.5	**3.9b**	**38**	**1-143**
EIDC	VII	02 11 46 40.6	22.8S	66.6W	209	3.7b		¶97vii0233
NEIC	VII	02 11 46 41.0	22.86S	66.62W	230	4.2b		
NEIC	Less reliable solution.							
ISC	**VII**	**05 16 32 56.2**±.54	**22.61S**±.067	**65.98W**±.076	**261**±5.8	**3.8b**	**32**	**1-143**
NEIC	VII	05 16 32 54.8	22.67S	66.00W	250	4.1b		¶97vii0750
EIDC	VII	05 16 32 55.7	22.6S	66.1W	244	3.6b		
ISC	**VII**	**05 18 33 04.5**±.99	**24.00S**±.086	**66.85W**±.086	**199**±8.2	**4.3b**	**66**	**2-166**
NEIC	VII	05 18 33 01.9	24.11S	66.95W	179	4.5b		¶97vii0767
EIDC	VII	05 18 33 02.8	24.1S	67.0W	174	4.2b,3.7s		
ISC	**VII**	**08 12 48 53.8**±.84	**22.5S**±.10	**66.2W**±.12	**263**±8.6	**3.9b**	**29**	**1-166**
NEIC	VII	08 12 48 52.6	22.59S	66.16W	250	4.2b		¶97vii1189
EIDC	VII	08 12 48 53.4	22.5S	66.1W	242	3.6b		
NEIC	Less reliable solution.							
ISC	**VII**	**13 15 13 41.2**±.85	**23.98S**±.090	**66.9W**±.10	**194**±7.3	**3.9b**	**37**	**1-144**
NEIC	VII	13 15 13 39.5	24.01S	66.94W	181	4.3b		¶97vii1985
EIDC	VII	13 15 13 40.7	24.0S	67.0W	180	3.8b		
NEIC	Less reliable solution.							
ISC	**VII**	**15 17 35 37.3**±.73	**23.20S**±.080	**66.52W**±.092	**223**±6.4	**4.0b**	**38**	**1-166**
NEIC	VII	15 17 35 34.3	23.41S	66.66W	200	4.4b		¶97vii2329
EIDC	VII	15 17 35 37.8	23.2S	66.5W	212	3.7b		
NEIC	Less reliable solution.							
ISC	**VII**	**16 20 35 22.0**±.46	**23.32S**±.040	**66.95W**±.068	**195**±5.3	**4.2b**	**48**	**1-144**
NEIC	VII	16 20 35 20.4	23.33S	66.87W	180	4.6b		¶97vii2491
EIDC	VII	16 20 35 23.2	23.2S	66.9W	189	4.1b		
ISC	**VII**	**20 10 14 19.7**±.54	**22.84S**±.030	**66.22W**±.033	**222**±5.7	**5.7b**	**520**	**1-175**
BJI	VII	20 10 14 22.0	22.77S	66.63W	240			¶97vii3070
EIDC	VII	20 10 14 22.3	22.9S	66.3W	236	5.5b		
NEIC	VII	20 10 14 22.8	22.98S	66.30W	256	5.7b		
MOS	VII	20 10 14 23.1	22.7S	66.2W	250	5.9b		
HRVD	VII	20 10 14 29.5±.1	22.82S±.01	66.12W±.01	271±.6			

NEIC Mw6.1(GS), Me5.6(GS)

NEIC Radiated energy from the P−wave first−motion solution: 6.1±1.4×10^{12}Nm/17

NEIC Mw 6.1 (HRV). Mb 6.0 (BRK). Felt in parts of Jujuy Province. Felt I=IV MM at Calama and Mejillones; III MM at Antofagasta, San Pedro de Atacama and Tocopilla, Chile.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S55°,δ75°,λ−110°. NP2:ϕ_S290°,δ25°,λ−38°. Principal axes: T Plg27°,Azm161°; P Plg56°,Azm300°. Depth from synthetics of broadband displacement seismograms.

NEIC Moment tensor solution: s38, scale 10^{17}Nm; M_{rr}−9.60; $M_{\theta\theta}$7.70; $M_{\phi\phi}$1.90; $M_{r\theta}$−9.50; $M_{r\phi}$−9.10; $M_{\theta\phi}$0.00. Depth 264km; Principal axes: T 13.4,Plg29°,Azm155°; N 4.1,Plg11°, Azm58°; P −17.4,Plg59°,Azm309°. Best double couple: M$_0$1.5×10^{18}Nm; NP1:ϕ_S273°,δ19°, λ−54°. NP2:ϕ_S55°,δ74°,λ−102°.

NEIC Felt I=II MM at Arequipa (after ARE)

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c114; Mantle waves: s47,c72; Half duration: 2s6. Moment tensor: Scale 10^{17}Nm; M_{rr}−6.84±.10; $M_{\theta\theta}$9.39±.15; $M_{\phi\phi}$−2.55±.16; $M_{r\theta}$−9.93±.11; $M_{r\phi}$−7.95±.12; $M_{\theta\phi}$2.08±.15. Principal Axes: T 15.8,Plg28°,Azm160°; N −0.8,Plg18°,Azm60°; P −15.0,Plg56°,Azm302°. Best double couple: M$_0$1.5×10^{18}Nm, NP1:ϕ_S289°,δ24°,λ−39°. NP2:ϕ_S55°,δ75°,λ−109°.

ISC	**VII**	**22 19 34 49.4**±.63	**23.14S**±.082	**66.53W**±.097	**230**±5.8	**4.0b**	**39**	**1-144**
NEIC	VII	22 19 34 49.1	23.13S	66.54W	229	4.1b		¶97vii3420
EIDC	VII	22 19 34 49.3	23.1S	66.5W	216	3.8b		
ISC	**VIII**	**09 16 08 11**±1.6	**22.8S**±.30	**65.5W**±.85	**300**		**5**	**0-7**
								¶97viii1278
ISC	**VIII**	**14 04 47 11**±2.4	**23.5S**±.34	**64.6W**±.20	**33**	**3.8b**	**6**	**8-94**
EIDC	VIII	14 04 47 05.9	23.8S	64.7W	0	3.9b,3.9$_L$		¶97viii2005
ISC	**VIII**	**19 18 18 44.1**±.51	**23.63S**±.054	**66.42W**±.072	**224**±5.1	**4.2b**	**59**	**1-155**
NEIC	VIII	19 18 18 42.6	23.60S	66.39W	211	4.4b		¶97viii2850
EIDC	VIII	19 18 18 44.0	23.5S	66.5W	210	4.1b		
ISC	**VIII**	**31 08 07 11**±1.1	**24.0S**±.11	**66.7W**±.12	**216**±11	**3.6b**	**12**	**1-80**
NEIC	VIII	31 08 07 10.1	24.00S	66.70W	205			¶97viii4615
EIDC	VIII	31 08 07 11.2	23.9S	66.7W	195	3.5b		
NEIC	Less reliable solution.							
ISC	**IX**	**19 17 52 27.8**±.89	**23.40S**±.096	**66.5W**±.12	**223**±6.7	**3.8b**	**21**	**1-144**
EIDC	IX	19 17 52 25.8	23.4S	66.6W	186	3.7b		¶97ix2822
NEIC	IX	19 17 52 26.9	23.42S	66.63W	221	4.0b		
NEIC	Less reliable solution.							
ISC	**IX**	**20 18 12 24**±1.3	**23.8S**±.14	**66.8W**±.20	**199**±14		**9**	**1-132**
NEIC	IX	20 18 12 23.1	23.77S	66.91W	205			¶97ix2983
EIDC	IX	20 18 12 27.1	23.6S	67.0W	233			
NEIC	Less reliable solution.							
ISC	**IX**	**26 13 09 18**±1.1	**23.2S**±.13	**66.4W**±.15	**225**±10	**3.5b**	**10**	**1-133**
NEIC	IX	26 13 09 17.8	23.19S	66.37W	226	4.5b		¶97ix4011
EIDC	IX	26 13 09 19.5	23.1S	66.4W	220	3.3b		
NEIC	Less reliable solution.							
ISC	**IX**	**30 13 15 08.9**±.90	**23.95S**±.090	**66.50W**±.087	**228**±8.1	**3.9b**	**33**	**1-154**
NEIC	IX	30 13 15 08.6	23.96S	66.43W	229	4.0b		¶97ix5235
EIDC	IX	30 13 15 13.9	23.9S	66.5W	267	3.8b		
ISC	**X**	**14 19 55 14.5**±.82	**22.91S**±.093	**66.7W**±.11	**220**±6.6	**3.7b**	**23**	**1-147**
NEIC	X	14 19 55 14.1	22.93S	66.73W	215	4.3b		¶97x2483
EIDC	X	14 19 55 14.5	22.9S	66.7W	202	3.6b		
NEIC	Less reliable solution.							
ISC	**X**	**22 09 50 50**±1.4	**22.4S**±.19	**66.7W**±.22	**225**±10	**3.5b**	**10**	**1-77**
EIDC	X	22 09 50 15.9	24.8S	67.7W	0	3.7b,3.9$_L$		¶97x3789
NEIC	X	22 09 50 49.6	22.43S	66.72W	223	3.7b		
NEIC	Poor solution.							
ISC	**X**	**24 21 25 25**±1.1	**24.0S**±.10	**66.7W**±.17	**197**±12	4.0b	**13**	**1-147**
NEIC	X	24 21 25 24.2	23.98S	66.78W	204	4.6b		¶97x4226
EIDC	X	24 21 25 27.6	23.9S	66.8W	221	3.9b		
NEIC	Less reliable solution.							
ISC	**X**	**26 05 43 49.7**±.56	**23.88S**±.050	**66.55W**±.064	**214**±5.6	**4.3b**	**66**	**1-165**
NEIC	X	26 05 43 49.7	23.86S	66.55W	215	4.5b		¶97x4421
EIDC	X	26 05 43 49.9	23.8S	66.6W	199	4.1b		
BJI	X	26 05 43 53.7	23.80S	66.50W	200			
ISC	**X**	**27 08 21 15**±1.4	**23.1S**±.11	**66.6W**±.14	**218**±16	**3.3b**	**12**	**7-133**
NEIC	X	27 08 21 13.0	23.15S	66.70W	200			¶97x4588
EIDC	X	27 08 21 15.0	23.1S	66.6W	202	3.2b		
NEIC	Less reliable solution.							
ISC	**XI**	**12 06 06 47.5**±.54	**22.50S**±.073	**66.17W**±.080	**256**±5.1	**4.2b**	**41**	**1-147**
NEIC	XI	12 06 06 47.0	22.50S	66.19W	253	4.5b		¶97xi1944
EIDC	XI	12 06 06 47.8	22.5S	66.2W	247	3.9b		
ISC	**XI**	**16 06 51 15.5**±.88	**24.00S**±.090	**66.6W**±.12	**214**±7.9	**3.8b**	**19**	**1-165**
NEIC	XI	16 06 51 14.3	24.00S	66.69W	200	4.7b		¶97xi2609
EIDC	XI	16 06 51 15.8	23.9S	66.6W	199	3.7b		
NEIC	Less reliable solution.							
ISC	**XII**	**03 14 22 19**±1.3	**24.0S**±.12	**66.8W**±.17	**210**±13	**3.5b**	**11**	**2-143**
NEIC	XII	03 14 22 18.2	23.95S	66.84W	208			¶97xii0440
EIDC	XII	03 14 22 19.1±2.97	23.9S	66.9W	196±27.5	3.4b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=31.7km semi−minor=20.3km azimuth=58							
ISC	**XII**	**07 19 41 20**±2.2	**22.6S**±.35	**66.0W**±.28	**261**±12	3.3b	**8**	**1-133**
EIDC	XII	07 19 41 18.8±7.62	22.7S	66.1W	237±59.5	3.2b		¶97xii1775
NEIC	XII	07 19 41 19.0	22.65S	66.04W	255			
EIDC	Error ellipse is semi−major=83.1km semi−minor=30.9km azimuth=26							
NEIC	Poor solution.							
ISC	**XII**	**20 09 23 23.7**±.71	**22.5S**±.17	**65.9W**±.12	**275**±8.6	**3.5b**	**27**	**0-153**
NEIC	XII	20 09 23 27.7	22.34S	65.83W	314	4.0b		¶97xii4101
EIDC	XII	20 09 23 29.4±4.49	22.4S	65.8W	316±42.7	3.3b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=64.5km semi−minor=24.1km azimuth=30							
ISC	**XII**	**24 21 54 28**±1.2	**22.4S**±.15	**66.0W**±.12	**268**±11	**3.8b**	**23**	**1-151**
NEIC	XII	24 21 54 25.9	22.35S	66.10W	245	4.1b		¶97xii4829
EIDC	XII	24 21 54 27.0±4.78	22.3S	66.1W	239±46.5	3.6b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=32.6km semi−minor=28.8km azimuth=14							
ISC	**XII**	**25 03 31 23**±1.3	**23.8S**±.14	**66.8W**±.14	**203**±12	**3.5b**	**20**	**1-152**
NEIC	XII	25 03 31 27.1	23.90S	66.65W	250	3.5b		¶97xii4861
EIDC	XII	25 03 31 30.5±4.11	23.9S	66.8W	262±40.9	3.3b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=29.6km semi−minor=26.0km azimuth=178							
ISC	**XII**	**26 02 23 11**±1.2	**22.5S**±.18	**66.1W**±.19	**256**±12	**3.8b**	**16**	**1-151**
NEIC	XII	26 02 23 11.1	22.51S	66.08W	254	3.6b		¶97xii5028
EIDC	XII	26 02 23 14.4±7.43	22.5S	66.1W	270±75.6	3.5b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=44.4km semi−minor=33.6km azimuth=164							

(129) Salta Province, Argentina.

ISC	**VII**	**01 11 30 17**±2.9	**22.7S**±.25	**63.8W**±.31	**567**±29	**3.6b**	**9**	**7-94**
NEIC	VII	01 11 30 18.2	22.77S	63.64W	573	3.9b		¶97vii0077
EIDC	VII	01 11 30 18.7	22.7S	63.6W	568	3.3b		
NEIC	Poor solution.							
ISC	**VII**	**08 12 45 06.5**±.65	**25.00S**±.062	**64.59W**±.085	**33**	4.2b	**12**	**1-145**
EIDC	VII	08 12 45 00.1	25.3S	65.0W	0	4.6$_L$,4.1b		¶97vii1188
ISC	**VII**	**15 03 53 57.1**±.34	**23.53S**±.065	**63.56W**±.084	**33**	**4.3b**,4.4s	**53**	**2-86**
EIDC	VII	15 03 53 55.3	23.1S	63.4W	0	4.2b,4.3s		¶97vii2251
NEIC	VII	15 03 53 58.3	23.18S	63.42W	33	4.7b		
ISC	**VIII**	**06 11 40 03**±2.7	**24.0S**±.17	**66.8W**±.35	**191**±51	3.8b	**6**	**8-88**
NEIC	VIII	06 11 40 02.7	23.99S	66.86W	200			¶97viii0794
EIDC	VIII	06 11 40 04.1	23.8S	67.0W	200	3.6b		
NEIC	Less reliable solution.							
ISC	**VIII**	**16 02 12 40.9**±.98	**24.1S**±.10	**66.8W**±.15	**215**±8.8	**3.5b**	**13**	**1-132**
NEIC	VIII	16 02 12 40.0	24.15S	66.80W	202	4.4b		¶97viii2306
EIDC	VIII	16 02 12 40.6	24.1S	66.8W	191	3.4b		
NEIC	Less reliable solution.							
ISC	**VIII**	**21 03 22 12**±1.3	**24.00S**±.087	**66.7W**±.11	**200**±13	**3.7b**	**21**	**8-144**
NEIC	VIII	21 03 22 11.4	23.99S	66.73W	200	4.3b		¶97viii3047
EIDC	VIII	21 03 22 12.3	23.9S	66.8W	193	3.4b		
ISC	**VIII**	**30 23 35 28.3**±.87	**24.2S**±.10	**66.81W**±.099	**200**±8.9	**3.3b**	**20**	**1-145**
NEIC	VIII	30 23 35 26.6	24.23S	66.80W	188	4.2b		¶97viii4553
EIDC	VIII	30 23 35 27.4	24.2S	66.9W	178	3.1b		
NEIC	Less reliable solution.							
ISC	**IX**	**17 05 08 25**±1.2	**22.8S**±.28	**63.7W**±.16	**541**±15	**3.4b**	**10**	**2-134**
NEIC	IX	17 05 08 24.7	22.66S	63.73W	533	4.6b		¶97ix2469
EIDC	IX	17 05 08 25.4	22.5S	63.6W	522	3.1b		
NEIC	Less reliable solution.							
ISC	**IX**	**20 04 30 04**±1.2	**24.1S**±.10	**66.9W**±.15	**202**±10	3.8b	**12**	**1-132**
NEIC	IX	20 04 30 03.8	24.08S	66.97W	200			¶97ix2899
EIDC	IX	20 04 30 04.0	24.1S	67.0W	180	3.7b		
NEIC	Less reliable solution.							
ISC	**IX**	**20 23 35 03**±1.3	**24.3S**±.14	**67.0W**±.17	**200**±13	3.0b	**11**	**1-145**
EIDC	IX	20 23 35 01.2	24.2S	67.1W	158	2.9b		¶97ix3013
NEIC	IX	20 23 35 03.2	24.23S	67.06W	194			
NEIC	Less reliable solution.							
ISC	**X**	**06 06 07 38.2**±.92	**24.17S**±.093	**66.9W**±.12	**195**±8.1	**4.1b**	**39**	**1-155**
EIDC	X	06 06 07 37.7	24.2S	67.0W	179	4.0b		¶97x1001
NEIC	X	06 06 07 38.1	24.27S	66.89W	200	4.4b		
ISC	**X**	**19 09 45 24**±1.2	**24.1S**±.13	**66.7W**±.21	**212**±13	3.0b	**9**	**1-144**
NEIC	X	19 09 45 22.8	24.11S	66.77W	200	3.9b		¶97x3325
EIDC	X	19 09 45 24.2	24.0S	66.7W	193	2.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**07 18 17 57.3**±.69	**24.15S**±.048	**66.85W**±.068	**183**±6.8	**4.4b**	**74**	**1-166**
NEIC	XI	07 18 17 59.2	24.09S	66.82W	200	4.6b		¶97xi1154
EIDC	XI	07 18 17 59.6	24.0S	66.9W	188	4.1b		
BJI	XI	07 18 18 02.2	24.10S	66.80W	200			
ISC	**XII**	**07 06 33 15**±3.8	**23.2S**±.17	**63.6W**±.93	**33**	3.7b	**4**	**8-78**
EIDC	XII	07 06 33 10.3±4.18	23.1S	63.0W	0	3.8$_L$,3.8b		¶97xii1634
ISC	Poorly determined							
EIDC	Error ellipse is semi−major=155.6km semi−minor=34.4km azimuth=84							
ISC	**XII**	**19 06 18 15.8**±.57	**23.0S**±.11	**63.64W**±.083	**542**±9.1	**3.8b**	**42**	**2-163**
EIDC	XII	19 06 18 13.1±4.23	23.0S	63.7W	498±49.6	3.5b		¶97xii3906
NEIC	XII	19 06 18 14.7	23.06S	63.69W	531	4.8b		
EIDC	Error ellipse is semi−major=33.4km semi−minor=18.2km azimuth=35							

(130) Catamarca Province, Argentina.

ISC	**VIII**	**04 01 41 52.7**±.65	**27.86S**±.067	**66.91W**±.096	**171**±9.5	**3.6b**	**26**	**3-147**
EIDC	VIII	04 01 41 50.3	27.9S	67.0W	136	3.5b		¶97viii0441
NEIC	VIII	04 01 41 50.9	27.81S	66.84W	150			
ISC	**IX**	**14 14 56 01.1**±.55	**28.10S**±.065	**66.7W**±.10	**169**±6.8	**3.8b**	**34**	**1-148**
NEIC	IX	14 14 56 00.7	28.11S	66.62W	168	3.9b		¶97ix2136
EIDC	IX	14 14 56 03.8	27.8S	66.4W	181	3.6b		
NEIC	Less reliable solution.							
ISC	**IX**	**27 12 09 33.6**±.38	**27.88S**±.034	**66.61W**±.047	**174**±4.2	**4.9b**	**156**	**1-171**
BJI	IX	27 12 09 33.8	27.80S	66.60W	176			¶97ix4350
NEIC	IX	27 12 09 33.8	27.89S	66.66W	176	5.0b		
EIDC	IX	27 12 09 34.9	27.7S	66.4W	170	4.6b		
ISC	**X**	**04 05 30 54**±1.2	**27.6S**±.30	**67.5W**±.62	**200**		**14**	**3-8**
NEIC	X	04 05 30 53.7	27.61S	67.56W	200			¶97x0590
NEIC	Poor solution.							
ISC	**XII**	**26 21 30 00.1**±.44	**28.02S**±.052	**66.72W**±.082	**179**±5.5	**4.3b**	**58**	**1-153**
NEIC	XII	26 21 29 59.8	28.02S	66.75W	174	4.6b		¶97xii5200
GUC	XII	26 21 30 01.2	28.13S	67.79W	301	4.7b		
EIDC	XII	26 21 30 02.0±.41	27.9S	66.6W	177±3.4	4.1b		
EIDC	Error ellipse is semi−major=22.2km semi−minor=17.5km azimuth=99							

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °

(132) Santiago del Estero Province, Argentina.

ISC	**VIII 19 02 55 36**±1.9	**28.78S**±.046	**64.49W**±.079	**30**±14	**4.3b**	**43**	**1-149**
NEIC	VIII 19 02 55 36.3	28.77S	64.46W	33	4.3b		¶97viii2750
EIDC	VIII 19 02 55 37.0	28.8S	64.6W	26	4.2b,3.8L		
NEIC	Slight damage in the Frias-Choya-Lavalle area. Felt at La Banda and Santiago del Estero.						

(134) Off coast of Central Chile.

ISC	**VII 06 10 32 14.2**±.63	**30.37S**±.095	**72.4W**±.25	**58**	**4.3b**	**24**	**3-151**
EIDC	VII 06 10 32 11.8	30.2S	71.1W	25	4.5b		¶97vii0871
NEIC	VII 06 10 32 12.2	30.21S	72.37W	33			
GUC	VII 06 10 32 12.4	30.21S	72.52W	58	4.1D		
NEIC	Less reliable solution.						
GUC	**VII 06 11 25 46.2**	**30.05S**	**72.49W**	**51**			¶97vii0876
ISC	**VII 06 12 07 52**±1.5	**29.90S**±.078	**72.4W**±.23	**33**		**16**	**3-14**
GUC	VII 06 12 08 23.8	32.11S	71.55W	33			¶97vii0881
ISC	**VII 07 03 25 11**±6.9	**29.7S**±.31	**73.0W**±.58	**33**		**14**	**4-5**
							¶97vii0984
ISC	**VII 07 12 31 17.1**±.99	**30.34S**±.054	**72.08W**±.090	**42**±11	**4.2b**	**51**	**3-151**
NEIC	VII 07 12 31 15.3	30.29S	72.07W	27	4.5b		¶97vii1042
EIDC	VII 07 12 31 16.3	30.3S	72.1W	25	4.1b,4.3L		
ISC	**VII 07 19 30 35**±2.1	**29.96S**±.039	**72.32W**±.096	**16**±17	**4.3b,4.5s**	**45**	**3-151**
EIDC	VII 07 19 30 34.1	30.0S	72.3W	0	4.3b,4.6s		¶97vii1081
NEIC	VII 07 19 30 36.7	29.99S	72.19W	33	4.5b		
ISC	**VII 08 01 15 02.6**±.92	**30.39S**±.055	**72.12W**±.077	**48**±9.9	**4.4b**,2.9s	**70**	**3-150**
EIDC	VII 08 01 14 57.3	30.2S	72.2W	0	4.5b,4.2L		¶97vii1115
NEIC	VII 08 01 15 01.0	30.26S	72.01W	33	4.5b		
GUC	VII 08 01 15 01.7	30.43S	72.58W	52	4.4D		
GUC	**VII 10 16 00 20.6**	**33.15S**	**73.06W**	**24**	**3.6D**		¶97vii1533
GUC	**VII 11 01 39 07.2**	**30.47S**	**72.56W**	**50**	**3.9D**		¶97vii1608
GUC	**VII 11 03 23 35.6**	**34.58S**	**73.61W**	**1**	**3.9D**		¶97vii1623
ISC	**VII 11 21 33 59**±14	**32.5S**±.64	**72.0W**±.76	**15**±24		**12**	**1-2**
GUC	VII 11 21 34 03.7	32.72S	71.75W	29	3.4D		¶97vii1731
GUC	**VII 11 23 02 37.9**	**30.04S**	**72.71W**	**52**	**4.2D**		¶97vii1739
ISC	**VII 12 05 09 46**±16	**30.1S**±.91	**72.7W**±.93	**53**		**13**	**3-5**
NEIC	VII 12 05 09 47.9	30.26S	72.57W	33			¶97vii1776
GUC	VII 12 05 09 51.4	30.40S	72.41W	53	4.3D		
NEIC	Poor solution.						
GUC	**VII 13 08 49 33.5**	**30.24S**	**72.45W**	**51**	**4.4D**		¶97vii1950
ISC	**VII 13 20 28 18**±5.1	**30.79S**±.074	**72.0W**±.19	**32**±45	4.1b	**22**	**2-59**
NEIC	VII 13 20 28 17.0	30.77S	72.14W	33	4.0b		¶97vii2022
GUC	VII 13 20 28 19.7	30.90S	72.02W	52	4.6D		
ISC	**VII 19 04 30 59**±8.0	**31.3S**±.42	**72.3W**±.52	**21**		**18**	**2-7**
GUC	VII 19 04 31 02.7	31.49S	72.05W	21	4.2D		¶97vii2829
ISC	**VII 21 17 43 45**±1.2	**30.08S**±.066	**72.0W**±.12	**49**±14	**4.0b**	**29**	**3-159**
NEIC	VII 21 17 43 42.9	29.99S	72.09W	33			¶97vii3270
EIDC	VII 21 17 43 43.9	30.0S	72.2W	30	4.1b,4.1L		
ISC	**VII 21 18 19 34**±1.6	**30.21S**±.072	**72.2W**±.26	**33**	3.6b	**13**	**3-26**
EIDC	VII 21 18 19 30.6	30.2S	72.3W	0	4.0L,3.9b		¶97vii3275
NEIC	VII 21 18 19 33.1	30.20S	72.25W	33	3.5b		
NEIC	Less reliable solution.						
ISC	**VII 21 19 31 05**±1.2	**30.00S**±.066	**72.0W**±.11	**55**±14	**4.0b**	**30**	**3-151**
NEIC	VII 21 19 31 03.3	29.93S	72.21W	33			¶97vii3282
EIDC	VII 21 19 31 07.4	30.0S	72.0W	56	3.8b,4.1L		
ISC	**VII 22 03 32 55.3**±.46	**30.39S**±.038	**72.08W**±.079	**35**	**4.0b**,3.9s	**37**	**3-93**
GUC	VII 22 03 32 54.9	30.47S	72.37W	35	4.6D		¶97vii3322
NEIC	VII 22 03 32 55.0	30.37S	71.97W	33	4.3b		
EIDC	VII 22 03 32 55.7	30.3S	72.0W	27	3.9b,4.3L		
ISC	**VII 22 05 29 28**±1.8	**30.54S**±.088	**72.5W**±.17	**46**±22	**3.7b,**2.9s	**21**	**3-93**
EIDC	VII 22 05 29 23.5	30.4S	72.6W	0	3.7b,3.9L		¶97vii3329
GUC	VII 22 05 29 25.7	30.43S	72.54W	36	4.4D		
NEIC	VII 22 05 29 25.8	30.40S	72.39W	33			
NEIC	Less reliable solution.						
ISC	**VII 22 13 23 24**±1.1	**30.63S**±.097	**72.2W**±.13	**33**	**4.3b**	**16**	**3-151**
EIDC	VII 22 13 23 19.9	30.5S	72.1W	0	4.3b,3.8L		¶97vii3381
ISC	**VII 23 22 34 55**±1.1	**30.41S**±.060	**72.2W**±.15	**3**	**4.5b**	**27**	**3-151**
EIDC	VII 23 22 34 56.6	30.7S	71.6W	0	4.5b,4.0L		¶97vii3585
NEIC	VII 23 22 34 58.0	30.42S	72.16W	33	3.9b		
GUC	VII 23 22 34 59.8	30.88S	72.33W	3	4.6D		
ISC	**VII 24 00 05 36**±1.6	**30.43S**±.084	**72.2W**±.17	**34**±20	**3.9b**	**26**	**3-151**
NEIC	VII 24 00 05 37.3	30.47S	72.04W	33			¶97vii3590
EIDC	VII 24 00 05 38.7	31.0S	71.0W	0	4.0b,3.7L		
NEIC	Less reliable solution.						
GUC	**VII 24 04 13 25.0**	**30.83S**	**72.29W**	**2**	**4.0D**		¶97vii3610
ISC	**VII 24 04 22 59**±12	**30.7S**±.66	**72.6W**±.77	**12**		**13**	**3-4**
GUC	VII 24 04 23 02.7	30.90S	72.34W	12	4.2D		¶97vii3612
ISC	**VII 24 04 26 29.5**±.98	**30.54S**±.096	**72.3W**±.14	**33**	**4.0b,**2.8s	**12**	**3-99**
NEIC	VII 24 04 26 29.4	30.53S	72.21W	33			¶97vii3613
EIDC	VII 24 04 26 32.7	30.5S	72.1W	42	3.9b,4.0L		
NEIC	Less reliable solution.						
ISC	**VII 24 06 27 45**±1.5	**30.59S**±.081	**72.1W**±.14	**51**±18	**3.9b,**3.1s	**22**	**2-93**
NEIC	VII 24 06 27 44.1	30.54S	72.03W	33			¶97vii3631
EIDC	VII 24 06 27 44.9	30.5S	72.0W	30	4.0L,3.9b		
GUC	VII 24 06 27 45.4	30.88S	72.19W	7	4.6D		
ISC	**VII 24 10 30 59**±1.5	**29.68S**±.073	**72.4W**±.16	**33**		**19**	**3-14**
NEIC	VII 24 10 30 58.6	29.67S	72.31W	33			¶97vii3660
NEIC	Less reliable solution.						
ISC	**VII 24 19 54 39**±1.8	**30.55S**±.038	**72.03W**±.077	**25**±13	**4.8b,5.1s**	**180**	**2-176**
GUC	VII 24 19 54 35.7	30.45S	72.40W	33			¶97vii3714
EIDC	VII 24 19 54 36.1	30.5S	71.9W	0	4.6b,4.6L		
NEIC	VII 24 19 54 39.6	30.58S	72.02W	33	5.0b,5.0s		
BJI	VII 24 19 54 40.6	30.73S	72.27W	32	5.7s		
MOS	VII 24 19 54 41.2	30.5S	71.8W	33	5.3b,5.2s		
HRVD	VII 24 19 54 43.2±.1	30.63S±.02	72.63W±.02	15			
NEIC	Mw5.7(HRV)						
NEIC	Felt I=IV MM at La Serena and III MM at Ovalle, Paihuano and Papudo.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c90; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}3.26±.06; $M_{\theta\theta}$0.25±.08; $M_{\phi\phi}$−3.51±.07; $M_{r\theta}$0.07±.19; $M_{r\phi}$−1.77±.21; $M_{\theta\phi}$0.05±.06. Principal Axes: T 3.70,Plg76°,Azm86°; N 0.25, Plg1°,Azm179°; P −3.94,Plg14°,Azm269°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S0°, δ31°,λ91°. NP2:ϕ_S179°,δ59°,λ89°.						
ISC	**VII 24 20 11 44**±6.4	**30.6S**±.10	**72.2W**±.17	**10**±41	**4.1b**	**13**	**4-151**
EIDC	VII 24 20 11 44.1	30.6S	72.1W	0	4.1b,3.8L		¶97vii3715
NEIC	VII 24 20 11 46.8	30.58S	72.12W	33			
NEIC	Less reliable solution.						
GUC	**VII 24 20 59 42.6**	**31.48S**	**72.08W**	**23**			¶97vii3718
ISC	**VII 24 21 25 12.0**±.98	**30.63S**±.088	**72.6W**±.14	**33**	**3.7b**	**17**	**4-166**
EIDC	VII 24 21 25 09.0	30.6S	72.8W	0	4.0b,4.1L		¶97vii3721
NEIC	VII 24 21 25 11.9	30.61S	72.46W	33			
NEIC	Less reliable solution.						
GUC	**VII 24 21 43 36.3**	**29.34S**	**73.05W**	**12**	**4.6D**		¶97vii3727
ISC	**VII 25 00 00 28**±1.7	**30.61S**±.079	**72.6W**±.22	**33**		**14**	**3-15**
NEIC	VII 25 00 00 29.5	30.55S	72.13W	33			¶97vii3742
NEIC	Less reliable solution.						
ISC	**VII 25 00 51 46**±1.7	**30.76S**±.093	**72.3W**±.17	**53**±19	**4.0b,**3.5s	**29**	**2-152**
EIDC	VII 25 00 51 41.4	30.5S	72.0W	0	3.8s,4.0b		¶97vii3746
NEIC	VII 25 00 51 45.0	30.64S	72.19W	33	4.8b		
ISC	**VII 25 01 30 36**±1.6	**30.49S**±.079	**72.7W**±.19	**100**		**17**	**3-15**
							¶97vii3750
ISC	**VII 25 04 03 35**±2.0	**30.62S**±.086	**72.8W**±.31	**33**		**13**	**3-15**
NEIC	VII 25 04 03 34.5	30.61S	72.83W	33			¶97vii3767
NEIC	Less reliable solution.						
ISC	**VII 25 04 44 07.5**±.73	**30.53S**±.050	**72.4W**±.13	**33**	**3.5b**	**26**	**3-159**
EIDC	VII 25 04 44 06.6	30.4S	72.5W	0	3.8L,3.3b		¶97vii3770
NEIC	VII 25 04 44 07.9	30.56S	72.47W	33			
ISC	**VII 25 06 56 45**±7.8	**30.55S**±.093	**72.5W**±.28	**3**±50	**4.0b**	**19**	**3-151**
NEIC	VII 25 06 56 48.7	30.59S	72.34W	33			¶97vii3784
EIDC	VII 25 06 56 49.6	30.5S	72.0W	23	3.8b,4.2L		
NEIC	Less reliable solution.						
ISC	**VII 25 07 23 05**±9.1	**30.5S**±.12	**72.0W**±.29	**9**±57	**3.9b**	**8**	**10-151**
NEIC	VII 25 07 23 08.4	30.56S	72.00W	33			¶97vii3791
EIDC	VII 25 07 23 09.8	30.5S	72.0W	27	3.7b,4.0L		
NEIC	Poor solution.						
ISC	**VII 25 07 27 50**±7.3	**30.49S**±.090	**72.3W**±.24	**11**±47	**3.9b**	**17**	**3-93**
EIDC	VII 25 07 27 50.2	30.5S	72.1W	0	3.9b,3.9L		¶97vii3792
NEIC	VII 25 07 27 52.8	30.51S	72.22W	33			
NEIC	Less reliable solution.						
ISC	**VII 25 07 34 33.5**±.40	**30.57S**±.084	**72.4W**±.12	**33**	**5.1b,5.6s**	**100**	**10-174**
NEIC	VII 25 07 34 30.7	30.49S	71.95W	33	5.4b,5.5s		¶97vii3794
EIDC	VII 25 07 34 31.6	30.5S	72.1W	0	5.0b,5.6s		
NEIC	Felt I=IV MM, Less reliable solution.						
ISC	**VII 25 07 51 22**±1.3	**30.6S**±.12	**72.1W**±.32	**33**	**4.0b**	**7**	**10-151**
EIDC	VII 25 07 51 19.2	30.5S	72.1W	0	4.1b,4.0L		¶97vii3797
NEIC	VII 25 07 51 21.9	30.60S	72.10W	33			
NEIC	Poor solution.						
ISC	**VII 25 07 53 16**±8.2	**30.6S**±.12	**72.2W**±.26	**6**±51	**4.2b**	**9**	**10-151**
NEIC	VII 25 07 53 19.2	30.61S	72.14W	33			¶97vii3798
EIDC	VII 25 07 53 19.9	30.6S	72.1W	21	4.0b,3.9L		
NEIC	Single network solution.						
ISC	**VII 25 07 57 57**±9.1	**30.6S**±.12	**72.1W**±.29	**12**±57	**4.0b**	**8**	**10-151**
NEIC	VII 25 07 57 59.3	30.59S	72.07W	33			¶97vii3799
EIDC	VII 25 07 58 01.3	30.5S	72.0W	31	3.9b,4.1L		
NEIC	Single network solution.						
ISC	**VII 25 08 27 28**±1.1	**30.59S**±.065	**72.3W**±.24	**33**	3.7b	**19**	**3-151**
EIDC	VII 25 08 27 24.3	30.8S	72.0W	0	3.8b,3.3L		¶97vii3806
NEIC	VII 25 08 27 27.5	30.58S	72.21W	33			
NEIC	Less reliable solution.						
ISC	**VII 25 10 08 35**±15	**30.5S**±.80	**72.8W**±.96	**33**		**12**	**3-4**
							¶97vii3815
ISC	**VII 26 04 30 22**±15	**29.8S**±.77	**73.1W**±.99	**33**		**14**	**4-7**
							¶97vii3916
ISC	**VII 26 11 11 57**±1.7	**30.61S**±.036	**72.02W**±.074	**28**±13	**4.6b,4.5s**	**109**	**2-169**
EIDC	VII 26 11 11 53.7	30.7S	72.0W	0	4.7b,4.6s		¶97vii3957
NEIC	VII 26 11 11 57.4	30.64S	72.02W	33	4.8b,4.5s		
BJI	VII 26 11 11 58.7	31.25S	71.28W	33			
NEIC	Felt I=II MM at La Serena.						
ISC	**VII 27 05 35 14.8**±.69	**30.53S**±.094	**72.1W**±.17	**33**	**4.1b**	**12**	**4-93**
EIDC	VII 27 05 35 12.8	30.4S	72.5W	0	4.2b,4.0L		¶97vii4067
NEIC	VII 27 05 35 14.6	30.52S	71.98W	33	3.8b		
NEIC	Less reliable solution.						
ISC	**VII 27 06 35 07**±1.9	**30.55S**±.038	**72.05W**±.079	**28**±14	**4.6b**	**104**	**2-173**
EIDC	VII 27 06 35 03.7	30.5S	72.1W	0	4.5b,4.7L		¶97vii4072
NEIC	VII 27 06 35 07.3	30.56S	72.02W	33	4.9b		
MOS	VII 27 06 35 08.3	31.1S	72.9W	33	5.2b		
BJI	VII 27 06 35 09.1	31.04S	72.88W	22			
ISC	**VII 27 11 30 33**±7.8	**32.3S**±.39	**72.1W**±.49	**10**		**11**	**1-2**
NEIC	VII 27 11 30 32.7	32.34S	72.08W	10			¶97vii4100
GUC	VII 27 11 30 39.9	32.62S	71.73W	26	3.7D		
NEIC	Poor solution.						
ISC	**VII 27 18 12 36**±2.2	**30.47S**±.091	**72.0W**±.19	**52**±19	**4.2b**	**16**	**3-124**
NEIC	VII 27 18 12 29.9	30.39S	72.86W	50	4.3b		¶97vii4149
EIDC	VII 27 18 12 30.8	30.5S	72.1W	0	4.3b,4.0L		
NEIC	Poor solution.						
ISC	**VII 28 13 56 24**±3.9	**30.6S**±.18	**72.3W**±.33	**125**±52		**16**	**3-7**
NEIC	VII 28 13 56 24.7	30.76S	72.16W	150			¶97vii4284
NEIC	Poor solution.						
ISC	**VII 28 17 12 07**±3.6	**30.79S**±.062	**72.3W**±.14	**30**±28	**3.8b**	**31**	**2-152**
NEIC	VII 28 17 12 07.3	30.72S	72.17W	33	4.4b		¶97vii4306
EIDC	VII 28 17 12 08.2	30.8S	72.0W	25	3.8b,3.8L		
ISC	**VII 29 00 31 20**±1.8	**30.59S**±.036	**72.10W**±.081	**27**±14	**4.5b,4.5s**	**60**	**2-159**
BJI	VII 29 00 31 20.2	30.03S	72.18W	33			¶97vii4351
NEIC	VII 29 00 31 20.7	30.61S	72.13W	33	4.9b,4.3s		
EIDC	VII 29 00 31 21.1	30.6S	72.1W	27	4.2b,4.1L		
HRVD	VII 29 00 31 21.4±.6	30.87S±.10	72.96W±.07	42±5.8			
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.94±.61; $M_{\theta\theta}$3.32±1.14; $M_{\phi\phi}$−8.25±.73; $M_{r\theta}$−0.57±1.18; $M_{r\phi}$−0.39±1.10; $M_{\theta\phi}$0.48±.63. Principal Axes: T 5.14,Plg72°,Azm173°; N 3.15,Plg18°,Azm358°; P −8.28,Plg2°,Azm268°. Best double couple: $M_0$6.7×10^{16}Nm, NP1: ϕ_S340°,δ46°,λ65°. NP2:ϕ_S194°,δ49°,λ114°.						
ISC	**VII 29 03 41 34**±4.5	**30.69S**±.076	**72.3W**±.17	**23**±36	**3.9b,**3.1s	**21**	**2-152**
NEIC	VII 29 03 41 35.7	30.67S	72.16W	33	4.4b		¶97vii4378
EIDC	VII 29 03 41 41.9	30.3S	72.0W	57	3.7b,3.7L		
NEIC	Less reliable solution.						
ISC	**VII 29 13 46 12**±1.2	**30.61S**±.051	**72.3W**±.18	**33**	4.0b	**22**	**3-67**
EIDC	VII 29 13 46 11.9	30.8S	71.6W	0	3.8L,4.1b		¶97vii4436
NEIC	VII 29 13 46 15.1	30.62S	71.79W	33	4.4b		
NEIC	Less reliable solution.						
ISC	**VII 30 06 17 03**±2.6	**30.6S**±.11	**72.8W**±.19	**56**±31	**3.7b**	**10**	**4-80**
NEIC	VII 30 06 17 02.2	30.62S	72.84W	50			¶97vii4542
EIDC	VII 30 06 17 05.7	30.5S	72.8W	59	3.8L,3.5b		
NEIC	Less reliable solution.						
ISC	**VIII 02 06 10 41**±1.2	**30.80S**±.062	**72.0W**±.11	**51**±13	**4.1b**	**39**	**2-151**
NEIC	VIII 02 06 10 35.6	30.66S	72.12W	5	4.2b		¶97viii0182
GUC	VIII 02 06 10 40.1	31.07S	72.26W	1			
EIDC	VIII 02 06 10 41.0	30.8S	72.0W	35	4.0b,4.1L		

EIDC	**VIII 02 08 36 51.1**	**29.8S**	**73.4W**	**0**	3.2b,3.5L	**14-80**		
						¶97viii0192		
GUC	**VIII 05 05 03 38.5**	**31.79S**	**72.14W**	**27**	**3.8D**	¶97viii0618		
ISC	**VIII 06 08 46 45**±2.6	**30.68S**±.050	**72.1W**±.12	**28**±19	**4.2b,4.6s**	**41 2-151**		
EIDC	VIII 06 08 46 41.9	30.7S	72.1W	0	4.2b,4.6s	¶97viii0774		
NEIC	VIII 06 08 46 45.4	30.69S	72.00W	33	4.5b			
ISC	**VIII 06 10 35 02**±1.4	**30.77S**±.064	**72.2W**±.14	**48**±18	**3.7b**,3.1s	**30 2-152**		
EIDC	VIII 06 10 34 58.1	30.7S	72.2W	0	3.8b,4.0L	¶97viii0784		
NEIC	VIII 06 10 35 00.8	30.71S	72.21W	33				
ISC	**VIII 06 21 34 35**±2.3	**30.51S**±.044	**72.06W**±.094	**28**±18	**4.6b,4.5s**	**99 2-159**		
EIDC	VIII 06 21 34 31.9	30.5S	72.1W	0	4.4b,4.7s	¶97viii0841		
NEIC	VIII 06 21 34 35.5	30.49S	71.90W	33	4.7b,4.5s			
BJI	VIII 06 21 34 35.7	30.37S	71.71W	37				
ISC	**VIII 06 23 17 15**±13	**30.7S**±.70	**72.6W**±.86	**33**		**11 3-4**		
						¶97viii0851		
ISC	**VIII 09 06 18 43**±9.0	**32.5S**±.47	**72.0W**±.52	**15**		**11 1-2**		
NEIC	VIII 09 06 18 41.9	32.48S	72.06W	15		¶97viii1211		
GUC	VIII 09 06 18 47.6	32.70S	71.73W	26	3.3D			
NEIC	Poor solution.							
ISC	**VIII 10 02 55 49**±12	**30.8S**±.73	**72.4W**±.82	**150**		**13 2-4**		
						¶97viii1342		
ISC	**VIII 11 08 00 53**±17	**32.5S**±.58	**72.1W**±.76	**10**±59		**13 1-2**		
NEIC	VIII 11 08 00 55.5	32.63S	71.96W	20		¶97viii1529		
GUC	VIII 11 08 00 58.9	32.76S	71.77W	15	3.6D			
NEIC	Poor solution.							
ISC	**VIII 11 10 22 17**±1.4	**30.26S**±.064	**72.7W**±.21	**33**	**3.8b**	**23 3-75**		
NEIC	VIII 11 10 22 12.5	30.37S	73.62W	33		¶97viii1545		
EIDC	VIII 11 10 22 17.1	30.2S	73.8W	53	3.7b,4.0L			
NEIC	Less reliable solution.							
ISC	**VIII 11 21 14 29**±7.0	**32.5S**±.35	**72.0W**±.45	**20**		**12 1-2**		
NEIC	VIII 11 21 14 28.4	32.51S	72.02W	20		¶97viii1627		
GUC	VIII 11 21 14 31.3	32.61S	71.86W	15	3.5D			
NEIC	Poor solution.							
ISC	**VIII 17 11 30 03**±10	**33.7S**±.20	**72.4W**±.85	**10**		**6 1-2**		
NEIC	VIII 17 11 29 59.3	33.82S	72.70W	10		¶97viii2533		
GUC	VIII 17 11 30 08.5	33.75S	72.01W	8	3.5D			
NEIC	Poor solution.							
GUC	**VIII 28 04 54 31.6**	**32.92S**	**72.00W**	**37**	**4.3D**	¶97viii4085		
ISC	**VIII 29 00 03 46**±11	**30.9S**±.59	**72.5W**±.76	**2**		**11 2-4**		
GUC	VIII 29 00 03 47.4	30.85S	72.08W	2	4.4D	¶97viii4205		
ISC	**VIII 29 06 04 58**±7.2	**32.6S**±.32	**72.1W**±.49	**15**		**12 1-2**		
NEIC	VIII 29 06 04 59.6	32.63S	72.02W	20		¶97viii4242		
GUC	VIII 29 06 05 03.1	32.76S	71.81W	15	3.7D			
NEIC	Poor solution.							
ISC	**IX 05 05 39 52**±7.3	**32.6S**±.33	**72.0W**±.50	**20**		**10 1-2**		
NEIC	IX 05 05 39 52.9	32.63S	71.98W	20		¶97ix0701		
GUC	IX 05 05 39 56.0	32.76S	71.81W	27	3.5D			
NEIC	Poor solution.							
ISC	**IX 07 19 46 57**±5.3	**30.3S**±.25	**72.6W**±.43	**5**		**15 3-7**		
NEIC	IX 07 19 46 59.4	30.43S	72.34W	5		¶97ix1119		
GUC	IX 07 19 47 06.9	31.06S	72.32W	2	4.3D			
NEIC	Less reliable solution.							
ISC	**IX 16 08 01 29.9**±.96	**30.84S**±.053	**72.0W**±.13	**33**	3.7b,3.1s	**23 2-152**		
EIDC	IX 16 08 01 26.5	30.9S	72.0W	0	3.6L,3.8b	¶97ix2349		
NEIC	IX 16 08 01 29.8	30.85S	72.02W	33	3.5b			
ISC	**IX 20 12 26 32**±1.5	**30.59S**±.080	**72.1W**±.13	**43**±16	**3.9b**	**23 2-81**		
GUC	IX 20 12 26 16.0	29.64S	72.83W	25	4.7D	¶97ix2942		
NEIC	IX 20 12 26 32.0	30.55S	72.04W	39				
EIDC	IX 20 12 26 34.6	30.5S	71.9W	38	3.6b,3.8L			
GUC	**IX 21 07 39 22.1**	**31.89S**	**72.02W**	**33**	**3.6D**	¶97ix3059		
ISC	**IX 24 09 24 23**±6.4	**33.0S**±.21	**72.1W**±.51	**20**		**11 1-2**		
GUC	IX 24 09 24 23.3	33.08S	72.12W	32	3.5D	¶97ix3560		
NEIC	IX 24 09 24 24.7	33.05S	71.96W	20				
NEIC	Poor solution.							
ISC	**IX 25 00 35 05**±11	**33.0S**±.25	**72.2W**±.59	**4**±30		**11 1-2**		
GUC	IX 25 00 35 07.1	33.06S	72.15W	16	3.7D	¶97ix3655		
NEIC	IX 25 00 35 07.1	33.06S	72.05W	10				
NEIC	Poor solution.							
ISC	**IX 25 00 48 34**±11	**33.0S**±.28	**72.1W**±.62	**4**±28		**11 1-2**		
GUC	IX 25 00 48 35.3	33.09S	72.09W	10	4.2D	¶97ix3657		
NEIC	IX 25 00 48 37.0	33.04S	71.86W	10				
NEIC	Poor solution.							
ISC	**IX 25 22 43 33**±4.9	**33.4S**±.13	**72.3W**±.41	**15**		**12 1-2**		
GUC	IX 25 22 43 32.7	33.43S	72.35W	15	3.9D	¶97ix3799		
NEIC	IX 25 22 43 33.6	33.39S	72.23W	15				
NEIC	Poor solution.							
ISC	**IX 27 10 42 35**±10	**32.9S**±.32	**72.4W**±.82	**30**		**13 1-2**		
GUC	IX 27 10 42 37.2	33.06S	72.13W	30	3.7D	¶97ix4334		
GUC	**IX 29 03 06 08.4**	**29.93S**	**72.57W**	**59**	**4.3D**	¶97ix4847		
ISC	**X 02 19 35 13**±4.2	**31.7S**±.16	**72.3W**±.37	**10**		**17 2-7**		
GUC	X 02 19 35 10.2	31.37S	72.12W	14	4.1D	¶97x0329		
NEIC	X 02 19 35 11.9	31.68S	72.40W	10				
NEIC	Poor solution.							
GUC	**X 02 19 52 26.0**	**31.41S**	**72.08W**	**20**	**4.0D**	¶97x0334		
GUC	**X 02 20 28 16.4**	**31.61S**	**72.38W**	**14**	**4.1D**	¶97x0339		
ISC	**X 03 05 28 57**±2.7	**31.9S**±.11	**72.0W**±.28	**29**		**15 1-5**		
GUC	X 03 05 28 52.6	31.67S	72.19W	29	4.1D	¶97x0401		
NEIC	X 03 05 28 57.5	31.90S	72.00W	30				
NEIC	Less reliable solution.							
ISC	**X 04 08 02 27**±5.0	**33.0S**±.17	**72.1W**±.38	**15**		**14 1-2**		
NEIC	X 04 08 02 26.2	32.98S	72.13W	15		¶97x0610		
GUC	X 04 08 02 26.9	32.99S	72.13W	15	3.9D			
NEIC	Poor solution.							
ISC	**X 04 08 51 27**±5.0	**33.0S**±.17	**72.1W**±.38	**15**		**12 1-2**		
NEIC	X 04 08 51 25.9	32.99S	72.14W	15		¶97x0615		
GUC	X 04 08 51 26.1	33.00S	72.17W	16				
NEIC	Poor solution.							
ISC	**X 11 06 08 25**±1.0	**29.70S**±.052	**72.01W**±.097	**38**±9.6	**4.4b**	**45 3-150**		
EIDC	X 11 06 08 21.1	29.7S	72.0W	0	4.6b,4.7L	¶97x1857		
NEIC	X 11 06 08 21.9	29.64S	72.12W	15	4.5b			
GUC	X 11 06 08 25.6	29.99S	72.48W	15	4.8D			
ISC	**X 12 03 33 22**±2.9	**32.77S**±.081	**72.7W**±.28	**33**		**21 1-28**		
NEIC	X 12 03 33 21.6	32.77S	72.70W	33		¶97x1980		
GUC	X 12 03 33 27.3	32.88S	72.11W	38	4.6D			
NEIC	Poor solution.							
ISC	**X 12 10 50 13**±6.0	**31.8S**±.29	**72.1W**±.44	**16**		**13 1-3**		
GUC	X 12 10 50 13.1	31.89S	72.12W	16	4.0D	¶97x2026		
NEIC	X 12 10 50 14.7	31.87S	72.05W	33				
NEIC	Poor solution.							
ISC	**X 14 04 12 45**±2.6	**30.4S**±.12	**72.3W**±.25	**33**		**19 3-27**		
NEIC	X 14 04 12 45.8	30.44S	72.14W	33		¶97x2334		
NEIC	Less reliable solution.							
ISC	**X 15 03 09 27**±13	**33.8S**±.15	**72.3W**±.97	**19**±27		**11 1-2**		
GUC	X 15 03 09 23.0	33.68S	72.63W	15		¶97x2552		
NEIC	X 15 03 09 24.6	33.74S	72.48W	15				
NEIC	Poor solution.							
ISC	**X 17 14 52 22**±7.5	**32.3S**±.31	**72.3W**±.58	**25**		**13 1-7**		
GUC	X 17 14 52 28.8	32.67S	71.83W	25	4.0D	¶97x3008		
ISC	**X 20 22 27 54**±3.4	**31.9S**±.12	**72.5W**±.35	**15**		**13 2-28**		
GUC	X 20 22 27 53.0	31.75S	72.36W	15	4.3D	¶97x3564		
GUC	**X 21 02 14 23.6**	**31.80S**	**72.58W**	**19**	**3.9D**	¶97x3589		
GUC	**X 25 06 30 41.8**	**30.33S**	**72.34W**	**54**	**4.1D**	¶97x4285		
ISC	**X 26 06 49 58**±11	**33.9S**±.16	**72.3W**±.89	**20**±24		**9 1-2**		
GUC	X 26 06 50 00.3	33.82S	72.11W	24		¶97x4428		
GUC	**X 28 08 44 16.3**	**35.78S**	**73.57W**	**5**	**3.9D**	¶97x4734		
ISC	**XI 01 09 20 46.7**±.80	**33.76S**±.091	**73.28W**±.084	**26**	**4.0b**	**19 1-83**		
EIDC	XI 01 09 20 44.3	33.8S	73.7W	0	4.1b,4.0L	¶97xi0051		
GUC	XI 01 09 20 47.6	33.69S	73.13W	26	4.3D			
NEIC	XI 01 09 20 47.7	33.73S	73.23W	33	4.8b			
ISC	**XI 01 23 06 46**±3.9	**33.2S**±.13	**72.3W**±.32	**9**		**12 1-2**		
GUC	XI 01 23 06 45.7	33.24S	72.31W	9	4.1D	¶97xi0156		
NEIC	XI 01 23 06 46.9	33.22S	72.33W	33				
ISC	**XI 03 19 43 46**±1.4	**30.13S**±.079	**73.1W**±.16	**64**±15	**4.1b**	**26 3-151**		
NEIC	XI 03 19 43 45.5	30.10S	73.07W	60		¶97xi0510		
EIDC	XI 03 19 43 47.7	30.1S	73.1W	57	3.9b,4.2L			
GUC	XI 03 19 43 49.6	30.29S	72.93W	54	4.5D			
ISC	**XI 04 03 35 34**±13	**30.2S**±.80	**72.2W**±.70	**49**		**14 3-5**		
NEIC	XI 04 03 35 39.6	30.51S	71.83W	40		¶97xi0567		
GUC	XI 04 03 35 44.4	30.80S	71.70W	49	4.2D			
NEIC	Poor solution.							
ISC	**XI 04 03 57 03**±12	**30.5S**±.74	**72.0W**±.71	**50**		**11 3-4**		
NEIC	XI 04 03 57 03.7	30.51S	71.99W	50		¶97xi0570		
GUC	XI 04 03 57 09.8	30.90S	71.84W	54	4.3D			
NEIC	Poor solution.							
ISC	**XI 04 07 01 54**±14	**30.3S**±.82	**72.1W**±.77	**50**		**10 3-4**		
NEIC	XI 04 07 01 56.9	30.51S	71.98W	50		¶97xi0592		
GUC	XI 04 07 02 03.0	30.88S	71.82W	50	4.2D			
NEIC	Poor solution.							
GUC	**XI 05 13 44 55.1**	**33.13S**	**72.09W**	**38**	**3.6D**	¶97xi0807		
ISC	**XI 05 16 26 15**±12	**30.4S**±.75	**72.1W**±.67	**50**		**12 3-4**		
NEIC	XI 05 16 26 15.8	30.41S	72.03W	50		¶97xi0829		
GUC	XI 05 16 26 23.6	30.89S	71.79W	52	4.3D			
NEIC	Poor solution.							
ISC	**XI 06 00 59 33**±10	**32.4S**±.53	**72.0W**±.56	**15**		**9 1-2**		
NEIC	XI 06 00 59 37.2	32.65S	71.83W	15		¶97xi0893		
GUC	XI 06 00 59 38.6	32.68S	71.76W	14	3.4D			
NEIC	Poor solution.							
ISC	**XI 06 02 43 32**±11	**30.6S**±.65	**72.1W**±.63	**55**		**12 2-4**		
NEIC	XI 06 02 43 35.3	30.76S	71.86W	55		¶97xi0909		
GUC	XI 06 02 43 39.3	30.99S	71.72W	53	4.0D			
NEIC	Poor solution.							
GUC	**XI 07 01 11 34.4**	**30.93S**	**72.00W**	**52**	**4.0D**	¶97xi1057		
ISC	**XI 12 07 14 10**±13	**30.2S**±.82	**72.1W**±.71	**57**		**13 3-4**		
NEIC	XI 12 07 14 14.9	30.52S	71.81W	70		¶97xi1949		
GUC	XI 12 07 14 19.7	30.80S	71.60W	57	3.9D			
NEIC	Poor solution.							
ISC	**XI 12 18 17 25**±9.4	**31.4S**±.46	**72.1W**±.67	**20**		**9 2-3**		
GUC	XI 12 18 17 25.5	31.41S	72.02W	22	3.9D	¶97xi2020		
NEIC	XI 12 18 17 25.6	31.41S	72.05W	20				
NEIC	Poor solution.							
ISC	**XI 16 14 55 02**±3.7	**34.9S**±.15	**73.0W**±.46	**25**		**9 2-6**		
GUC	XI 16 14 55 01.5	35.00S	72.95W	25	4.1D	¶97xi2660		
NEIC	XI 16 14 55 03.0	34.88S	73.02W	33				
NEIC	Single network solution.							
GUC	**XI 24 20 42 28.9**	**34.28S**	**73.60W**	**14**	**4.1D**	¶97xi4384		
GUC	**XI 25 07 11 56.9**	**31.14S**	**72.11W**	**117**	**2.9D**	¶97xi4465		
GUC	**XI 27 06 46 36.9**	**30.47S**	**72.00W**	**41**		¶97xi4816		
ISC	**XII 01 20 45 08**±6.5	**33.0S**±.20	**72.1W**±.50	**15**		**9 1-2**		
GUC	XII 01 20 45 08.9	32.98S	72.06W	15	3.5D	¶97xii0145		
ISC	**XII 02 00 51 12**±6.2	**33.0S**±.19	**72.1W**±.47	**16**		**10 1-2**		
GUC	XII 02 00 51 13.4	33.01S	72.01W	16	3.8D	¶97xii0165		
ISC	**XII 02 08 36 14**±6.2	**33.0S**±.19	**72.1W**±.47	**15**		**11 1-2**		
GUC	XII 02 08 36 15.2	33.00S	72.03W	15	3.7D	¶97xii0216		
ISC	**XII 03 13 05 50**±11	**33.0S**±.29	**72.1W**±.63	**5**±28		**12 1-2**		
NEIC	XII 03 13 05 52.4	33.03S	72.03W	10		¶97xii0426		
NEIC	Single network solution.							
ISC	**XII 07 03 24 05**±1.1	**37.53S**±.087	**75.0W**±.17	**33**	**3.5b**	**14 5-72**		
EIDC	XII 07 03 24 02.5±1.35	37.5S	75.1W	0	3.5b,4.1L	¶97xii1597		
NEIC	XII 07 03 24 05.1	37.53S	74.94W	33	3.5b			
EIDC	Error ellipse is semi-major=42.9km semi-minor=23.5km azimuth=77							
NEIC	Less reliable solution.							
GUC	**XII 09 02 41 50.3**	**33.06S**	**72.16W**	**39**	**3.7D**	¶97xii2082		
NEIC	XII 09 02 41 47.3	32.92S	72.43W	33				
NEIC	Poor solution.							
ISC	**XII 12 03 39 18**±12	**30.8S**±.66	**72.1W**±.75	**44**		**12 2-4**		
GUC	XII 12 03 39 21.7	31.02S	72.01W	44	4.2D	¶97xii2689		
ISC	**XII 13 14 18 21**±9.2	**30.2S**±.53	**72.1W**±.58	**57**		**14 3-7**		
GUC	XII 13 14 18 30.5	30.86S	71.86W	57	4.3D	¶97xii2955		
ISC	**XII 15 18 31 16**±9.6	**32.2S**±.53	**72.0W**±.49	**10**		**9 1-2**		
NEIC	XII 15 18 31 15.8	32.24S	71.99W	10		¶97xii3320		
GUC	XII 15 18 31 17.5	32.23S	71.92W	17	4.0D			
NEIC	Poor solution.							
ISC	**XII 17 02 16 16**±6.4	**34.0S**±.12	**72.1W**±.54	**20**		**10 1-2**		
GUC	XII 17 02 16 14.3	34.00S	72.26W	26	3.5D	¶97xii3537		
NEIC	XII 17 02 16 15.4	33.99S	72.13W	20				
NEIC	Poor solution.							
GUC	**XII 21 21 19 29.6**	**30.75S**	**72.26W**	**1**		¶97xii4304		
GUC	**XII 24 14 33 37.1**	**30.33S**	**72.05W**	**11**	**4.4D**	¶97xii4772		
ISC	**XII 24 14 47 28**±7.1	**38.1S**±.11	**74.2W**±.54	**23**±40	**3.9b**,3.4s	**19 4-80**		
GUC	XII 24 14 47 35.8	37.74S	73.28W	7	4.4D	¶97xii4775		
NEIC	XII 24 14 47 36.1	37.97S	73.07W	33				
EIDC	XII 24 14 47 45.3±3.91	38.7S	73.0W	126±35.2	3.6b,3.3s			
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi-major=58.0km semi-minor=37.7km azimuth=47							

(135) Near coast of Central Chile.

GUC	**VII 01 12 37 00.5**	**30.23S**	**71.28W**	**53**	**3.9D**	¶97vii0088		
ISC	**VII 03 12 04 48**±14	**32.5S**±.51	**71.8W**±.52	**9**±55		**11 1-2**		
NEIC	VII 03 12 04 48.5	32.49S	71.77W	10		¶97vii0406		
GUC	VII 03 12 04 51.0	32.58S	71.68W	32	3.7D			
NEIC	Poor solution.							

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
ISC	**VII**	**03 23 12 56**±6.5		**34.0S**±.14	**72.1W**±.51	**23**±17		**13**	**1-2**
GUC	VII	03 23 12 57.0		33.96S	72.00W	31	4.2D		¶97vii0464
ISC	**VII**	**04 12 56 39**±3.4		**34.0S**±.11	**71.1W**±.14	**78**±34		**14**	**0-1**
GUC	VII	04 12 56 39.1		33.98S	71.07W	72	3.3D		¶97vii0563
NEIC	VII	04 12 56 39.5		33.96S	71.09W	70			
NEIC	Single network solution.								
ISC	**VII**	**06 09 54 00**±2.0		**30.05S**±.030	**71.81W**±.049	**14**±12	**5.8b,6.5s**	**399**	**3-176**
EIDC	VII	06 09 53 58.8		30.2S	72.1W	0	5.3b,6.8s		¶97vii0861
NEIC	VII	06 09 54 00.7		30.06S	71.87W	19	5.8b,6.5s		
MOS	VII	06 09 54 01.2		29.8S	71.7W	17	5.9b,6.7s		
BJI	VII	06 09 54 01.4		30.00S	71.84W	29	6.9s		
GUC	VII	06 09 54 01.5		30.18S	72.60W	53			
HRVD	VII	06 09 54 09.5±.1		30.22S±.01	72.21W	15			
NEIC	Mw6.8(GS), Me6.1(GS)								
NEIC	Radiated energy from the P−wave first−motion solution: 3.7±0.6×10^{13}Nm/24								
NEIC	Mw 6.8 (HRV). Ms 6.3 (BRK). Felt I=III MM at Coquimbo, La Serena, Ovalle and Vicuna. Mo=4.0×10^{19}Nm (PPT).								
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S350°,δ25°,λ90°. NP2:ϕ_S170°,δ65°,λ90°. Principal axes: T Plg70°,Azm80°; P Plg20°,Azm260°. Two events about 3.0 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event.								
NEIC	Moment tensor solution: s55, scale 10^{19}Nm; M_{rr}1.20; $M_{\theta\theta}$−0.43; $M_{\phi\phi}$−0.77; $M_{r\theta}$0.64; $M_{r\phi}$−1.39; $M_{\theta\phi}$0.38. Depth 5km; Principal axes: T 1.98,Plg63°,Azm69°; N −0.19,Plg3°, Azm333°; P −1.79,Plg27°,Azm241°. Best double couple: M$_0$1.9×10^{19}Nm; NP1:ϕ_S323°,δ18°, λ80°. NP2:ϕ_S154°,δ72°,λ93°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s65,c167; Mantle waves: s71,c175; Half duration: 5s0. Moment tensor: Scale 10^{19}Nm; M_{rr}1.32±.00; $M_{\theta\theta}$−0.09±.00; $M_{\phi\phi}$−1.23±.00; $M_{r\theta}$0.06±.02; $M_{r\phi}$−1.45±.02; $M_{\theta\phi}$0.02±.00. Principal Axes: T 1.97,Plg66°,Azm86°; N −0.09,Plg1°,Azm178°; P −1.88,Plg24°,Azm269°. Best double couple: M$_0$1.9×10^{19}Nm, NP1:ϕ_S0°,δ21°,λ92°. NP2:ϕ_S178°,δ69°,λ89°.								
ISC	**VII**	**06 10 16 05.5**±.91		**30.10S**±.052	**71.9W**±.10	**38**±9.6	**4.6b**	**65**	**3-166**
EIDC	VII	06 10 16 01.1		30.2S	72.1W	0	4.5b,4.0L		¶97vii0865
NEIC	VII	06 10 16 05.0		30.06S	71.87W	33	4.8b		
GUC	VII	06 10 16 06.1		30.26S	72.50W	56			
ISC	**VII**	**06 10 24 27**±1.6		**30.1S**±.10	**71.9W**±.18	**35**±18	**4.4b**	**30**	**3-151**
NEIC	VII	06 10 24 26.5		30.09S	72.05W	27	4.6b		¶97vii0868
GUC	VII	06 10 24 29.2		30.29S	72.36W	53			
EIDC	VII	06 10 24 31.6		28.8S	70.5W	27	3.8b		
NEIC	Less reliable solution.								
ISC	**VII**	**06 11 06 01**±1.1		**29.95S**±.062	**71.8W**±.10	**38**±12	**4.3b**	**52**	**3-154**
NEIC	VII	06 11 05 59.9		29.92S	71.82W	33	4.5b		¶97vii0875
EIDC	VII	06 11 05 59.9		30.5S	72.6W	30	4.2b		
GUC	VII	06 11 06 02.4		30.22S	72.48W	48	4.3D		
ISC	**VII**	**06 17 44 41**±2.1		**30.0S**±.10	**71.6W**±.22	**81**±18	4.4b	**11**	**3-73**
									¶97vii0914
ISC	**VII**	**06 18 47 38**±1.9		**30.24S**±.077	**71.6W**±.17	**74**±19	**4.4b**	**22**	**3-93**
NEIC	VII	06 18 47 33.5		30.28S	71.79W	33	4.5b		¶97vii0919
NEIC	Less reliable solution.								
ISC	**VII**	**06 21 48 10**±2.5		**29.9S**±.12	**71.4W**±.28	**33**		**8**	**3-26**
									¶97vii0942
ISC	**VII**	**06 23 15 18**±1.4		**30.13S**±.032	**71.89W**±.062	**17**±11	**5.2b,5.3s**	**210**	**3-176**
NEIC	VII	06 23 15 20.4		30.16S	71.86W	33	5.3b,5.2s		¶97vii0949
BJI	VII	06 23 15 20.9		30.07S	71.81W	40	5.8s		
HRVD	VII	06 23 15 23.7±.1		30.26S±.02	72.46W±.02	15			
EIDC	VII	06 23 15 32.9		29.9S	71.8W	124	4.6b		
NEIC	Mw5.8(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c101; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}3.73±.07; $M_{\theta\theta}$0.22±.09; $M_{\phi\phi}$−3.95±.09; $M_{r\theta}$−0.32±.21; $M_{r\phi}$−3.46±.22; $M_{\theta\phi}$0.19±.07. Principal Axes: T 5.08,Plg69°,Azm102°; N 0.20, Plg4°,Azm1°; P −5.28,Plg21°,Azm269°. Best double couple: M$_0$5.2×10^{17}Nm, NP1:ϕ_S352°, δ24°,λ80°. NP2:ϕ_S183°,δ66°,λ95°.								
GUC	**VII**	**07 02 11 54.0**		**32.45S**	**71.76W**	**43**			¶97vii0973
NEIC	VII	07 02 11 52.5		32.32S	71.88W	33			
NEIC	Poor solution.								
ISC	**VII**	**07 02 37 45**±3.5		**36.12S**±.091	**73.4W**±.51	**20**		**11**	**1-4**
NEIC	VII	07 02 37 45.9		36.13S	73.22W	20			¶97vii0978
NEIC	Poor solution.								
ISC	**VII**	**10 13 06 26.5**±.96		**29.92S**±.052	**71.88W**±.092	**35**±10	**4.4b,**4.6s	**50**	**3-154**
GUC	VII	10 13 06 26.0		30.02S	72.57W	52	4.7D		¶97vii1513
NEIC	VII	10 13 06 26.2		29.91S	71.84W	33	4.5b		
EIDC	VII	10 13 06 26.7		30.0S	71.9W	24	4.3b,4.4L		
NEIC	Felt I=III MM at Coquimbo.								
ISC	**VII**	**10 15 58 35**±1.1		**33.38S**±.071	**71.3W**±.13	**45**±15	3.6b	**12**	**0-27**
GUC	VII	10 15 58 34.0		33.37S	71.24W	54	3.2D		¶97vii1532
NEIC	VII	10 15 58 34.4		33.36S	71.26W	50			
NEIC	Single network solution.								
ISC	**VII**	**12 12 17 12**±4.0		**33.1S**±.16	**71.4W**±.23	**56**±39		**12**	**0-2**
GUC	VII	12 12 17 12.3		33.12S	71.36W	53	3.4D		¶97vii1814
NEIC	VII	12 12 17 12.4		33.10S	71.40W	50			
NEIC	Single network solution.								
ISC	**VII**	**14 01 35 31**±6.9		**31.8S**±.52	**71.1W**±.32	**100**		**13**	**1-3**
NEIC	VII	14 01 35 30.6		31.79S	71.06W	100			¶97vii2054
GUC	VII	14 01 35 32.1		31.89S	71.02W	96	3.0D		
NEIC	Poor solution.								
ISC	**VII**	**14 04 03 07**±9.8		**32.2S**±.64	**71.7W**±.35	**18**		**13**	**1-3**
GUC	VII	14 04 03 06.2		32.14S	71.76W	18	3.8D		¶97vii2065
GUC	**VII**	**14 05 03 55.8**		**31.66S**	**71.83W**	**23**	**3.9b**		¶97vii2070
ISC	**VII**	**14 06 15 20**±9.9		**32.1S**±.65	**71.7W**±.36	**17**		**13**	**1-3**
GUC	VII	14 06 15 19.7		32.15S	71.74W	17	3.7D		¶97vii2076
ISC	**VII**	**17 02 33 14**±6.9		**32.4S**±.42	**71.5W**±.29	**17**		**13**	**1-2**
GUC	VII	17 02 33 11.9		32.26S	71.65W	17	4.1D		¶97vii2533
NEIC	VII	17 02 33 11.9		32.32S	71.61W	10			
NEIC	Poor solution.								
ISC	**VII**	**17 08 54 42**±3.7		**34.3S**±.16	**71.1W**±.14	**69**±37		**13**	**0-2**
NEIC	VII	17 08 54 41.8		34.25S	71.04W	70			¶97vii2577
GUC	VII	17 08 54 42.0		34.25S	71.05W	67	3.0D		
NEIC	Single network solution.								
ISC	**VII**	**17 18 23 56**±1.8		**30.7S**±.10	**71.5W**±.18	**5**		**20**	**2-8**
NEIC	VII	17 18 23 48.9		30.26S	71.81W	5			¶97vii2624
GUC	VII	17 18 23 54.8		30.73S	71.85W	4	4.3D		
NEIC	Poor solution.								
ISC	**VII**	**19 12 22 54**±1.9		**29.20S**±.028	**71.59W**±.046	**4**±12	**5.8b,5.6s**	**385**	**3-177**
EIDC	VII	19 12 22 54.2		29.4S	71.7W	0	5.6b,5.3L		¶97vii2872
BJI	VII	19 12 22 57.2		29.22S	71.72W	30	6.0s		
NEIC	VII	19 12 22 57.3		29.28S	71.68W	26	5.8b,5.5s		
MOS	VII	19 12 23 00.2		28.8S	71.6W	31	6.4b,5.7s		
HRVD	VII	19 12 23 03.6±.1		29.54S±.02	72.05W±.02	33			
NEIC	Mw5.9(GS), Me5.8(GS)								
NEIC	Radiated energy from the P−wave first−motion solution: 1.1±0.2×10^{13}Nm/14								
NEIC	Mw 5.9 (HRV). Felt I=V MM at Vallenar; IV MM at Caldera, Chanaral, Copiapo, El Salvador and Ovalle; III MM at Coquimbo and La Serena.								
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S315°,δ55°,λ60°. NP2:ϕ_S180°,δ45°,λ126°. Principal axes: T Plg65°,Azm168°; P Plg6°,Azm66°. Depth from synthetics of broadband displacement seismograms.								
NEIC	Moment tensor solution: s28, scale 10^{17}Nm; M_{rr}4.20; $M_{\theta\theta}$1.78; $M_{\phi\phi}$−5.98; $M_{r\theta}$−2.93; $M_{r\phi}$−1.81; $M_{\theta\phi}$3.34. Depth 29km; Principal axes: T 7.06,Plg50°,Azm156°; N 0.21,Plg40°, Azm344°; P −7.26,Plg4°,Azm251°. Best double couple: M$_0$7.2×10^{17}Nm; NP1:ϕ_S307°,δ54°, λ38°. NP2:ϕ_S192°,δ60°,λ137°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c88; Mantle waves: s5,c8; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; M_{rr}4.92±.09; $M_{\theta\theta}$1.91±.14; $M_{\phi\phi}$−6.83±.15; $M_{r\theta}$−2.90±.19; $M_{r\phi}$−2.58±.22; $M_{\theta\phi}$2.50±.09. Principal Axes: T 7.54,Plg55°,Azm156°; N 0.22,Plg34°,Azm354°; P −7.76,Plg9°,Azm258°. Best double couple: M$_0$7.7×10^{17}Nm, NP1:ϕ_S315°,δ47°,λ40°. NP2:ϕ_S195°,δ62°,λ129°.								
ISC	**VII**	**20 19 18 16**±4.3		**31.7S**±.26	**71.3W**±.31	**33**		**14**	**1-3**
GUC	VII	20 19 18 14.7		31.70S	71.40W	33	3.9D		¶97vii3138
ISC	**VII**	**20 19 50 33**±3.7		**33.1S**±.16	**71.3W**±.19	**61**±35		**12**	**0-2**
GUC	VII	20 19 50 33.1		33.12S	71.22W	55	3.3D		¶97vii3144
NEIC	VII	20 19 50 33.6		33.11S	71.24W	50			
NEIC	Single network solution.								
EIDC	**VII**	**21 01 15 50.4**		**40.1S**	**73.2W**	**0**	3.6b,3.9L		**2-33**
									¶97vii3169
ISC	**VII**	**21 17 54 15**±1.6		**29.94S**±.035	**71.84W**±.068	**16**±12	**4.8b,4.8s**	**144**	**3-173**
EIDC	VII	21 17 54 13.5		29.9S	71.8W	0	4.6b,5.2s		¶97vii3271
NEIC	VII	21 17 54 17.1		29.97S	71.78W	33	4.9b,4.8s		
BJI	VII	21 17 54 18.1		29.90S	71.80W	33	5.4s		
HRVD	VII	21 17 54 21.5±.3		29.86S±.04	72.52W±.05	15			
NEIC	Mw5.5(HRV)								
NEIC	Felt I=II MM at Coquimbo and La Serena.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c51; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.17±.04; $M_{\theta\theta}$−0.13±.06; $M_{\phi\phi}$−1.04±.05; $M_{r\theta}$0.25±.14; $M_{r\phi}$−1.24±.15; $M_{\theta\phi}$−0.09±.04. Principal Axes: T 1.76,Plg65°,Azm71°; N −0.17, Plg7°,Azm176°; P −1.60,Plg24°,Azm269°. Best double couple: M$_0$1.7×10^{17}Nm, NP1:ϕ_S14°, δ22°,λ109°. NP2:ϕ_S173°,δ70°,λ83°.								
ISC	**VII**	**21 23 19 38**±1.6		**30.31S**±.032	**71.91W**±.066	**24**±12	**5.0b,5.6s**	**212**	**3-176**
EIDC	VII	21 23 19 35.6		30.4S	72.0W	0	4.7b,5.8s		¶97vii3297
NEIC	VII	21 23 19 39.3		30.33S	71.92W	33	5.2b,5.5s		
MOS	VII	21 23 19 43.4		30.3S	73.5W	33	5.5b,5.8s		
BJI	VII	21 23 19 44.3		30.30S	71.90W	40	6.1s		
HRVD	VII	21 23 19 49.8±.4		30.72S±.03	71.79W±.05	15			
NEIC	Mw6.0(GS), Mw5.9(HRV)								
NEIC	Felt I=III MM at La Serena.								
NEIC	Moment tensor solution: s24, scale 10^{18}Nm; M_{rr}0.37; $M_{\theta\theta}$−0.10; $M_{\phi\phi}$−0.27; $M_{r\theta}$0.30; $M_{r\phi}$−1.01; $M_{\theta\phi}$0.07. Depth 4km; Principal axes: T 1.14,Plg54°,Azm74°; N −0.07,Plg0°, Azm343°; P −1.06,Plg36°,Azm253°. Best double couple: M$_0$1.1×10^{18}Nm; NP1:ϕ_S341°,δ9°, λ87°. NP2:ϕ_S163°,δ81°,λ90°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c46; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}5.86±.15; $M_{\theta\theta}$1.05±.15; $M_{\phi\phi}$−6.91±.23; $M_{r\theta}$1.44±.38; $M_{r\phi}$−5.88±.48; $M_{\theta\phi}$−1.37±.14. Principal Axes: T 8.61,Plg64°,Azm57°; N 0.66, Plg14°,Azm179°; P −9.26,Plg21°,Azm275°. Best double couple: M$_0$8.9×10^{17}Nm, NP1: ϕ_S29°,δ27°,λ123°. NP2:ϕ_S173°,δ67°,λ74°.								
ISC	**VII**	**22 02 09 32.2**±.75		**30.36S**±.040	**71.84W**±.072	**36**±7.9	**4.8b,4.7s**	**122**	**3-169**
EIDC	VII	22 02 09 27.6		30.5S	71.9W	0	4.6b,5.0s		¶97vii3314
GUC	VII	22 02 09 29.3		30.32S	72.52W	49	5.1D		
BJI	VII	22 02 09 31.7		30.40S	71.80W	33	5.4s		
NEIC	VII	22 02 09 31.7		30.36S	71.83W	33	4.9b,4.7s		
HRVD	VII	22 02 09 35.2±.4		30.71S±.06	72.38W±.06	15			
NEIC	Mw5.4(HRV)								
NEIC	Felt I=III MM at Coquimbo, La Serena, Ovalle and Santiago.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c43; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}1.12±.05; $M_{\theta\theta}$−0.33±.07; $M_{\phi\phi}$−0.78±.05; $M_{r\theta}$−1.04±.20; $M_{r\phi}$−0.63±.19; $M_{\theta\phi}$−0.05±.05. Principal Axes: T 1.77,Plg61°,Azm154°; N −0.56,Plg11°,Azm43°; P −1.21,Plg26°,Azm308°. Best double couple: M$_0$1.5×10^{17}Nm, NP1: ϕ_S14°,δ21°,λ59°. NP2:ϕ_S227°,δ72°,λ101°.								
ISC	**VII**	**22 04 25 42**±1.8		**30.01S**±.082	**71.7W**±.15	**56**±16	**4.1b,**3.7s	**22**	**3-151**
NEIC	VII	22 04 25 38.9		30.17S	71.90W	33	4.5b		¶97vii3327
EIDC	VII	22 04 25 40.8		30.1S	72.0W	32	3.9b,3.8s		
NEIC	Less reliable solution.								
ISC	**VII**	**22 07 16 39**±1.2		**29.37S**±.078	**71.2W**±.18	**45**		**17**	**3-13**
NEIC	VII	22 07 16 37.4		29.32S	71.71W	33			¶97vii3337
GUC	VII	22 07 16 39.1		29.33S	71.38W	45	4.4D		
NEIC	Poor solution.								
ISC	**VII**	**22 10 02 00**±1.9		**30.35S**±.090	**71.8W**±.15	**58**±18	**4.1b**	**26**	**3-151**
NEIC	VII	22 10 01 56.1		30.44S	71.93W	33	4.2b		¶97vii3356
EIDC	VII	22 10 01 57.6		30.4S	72.0W	29	4.0b,4.1L		
NEIC	Less reliable solution.								
ISC	**VII**	**22 13 45 01.0**±.66		**31.79S**±.046	**71.37W**±.081	**72**±7.7	**4.4b**	**76**	**1-164**
NEIC	VII	22 13 45 00.1		31.74S	71.41W	63	4.5b		¶97vii3383
EIDC	VII	22 13 45 01.1		31.9S	71.3W	66	4.2b		
GUC	VII	22 13 45 03.2		32.03S	71.58W	39	4.7D		
NEIC	Felt I=IV MM at Catemu, Illapel, Llay Llay, Los Vilos, Panquehue and Salamanca; III MM at La Ligua, Papudo, Quillota, San Felipe, Santa Maria and Santiago; II MM at Coquimbo, La Serena and Ovalle.								
NEIC	**VII**	**23 18 06 18.8**		**30.72S**	**71.22W**	**100**			**2-15**
NEIC	Less reliable solution.								¶97vii3561
ISC	**VII**	**23 22 14 19**±1.6		**30.50S**±.065	**71.8W**±.13	**60**±15	**4.3b**	**41**	**3-151**
EIDC	VII	23 22 14 11.3		30.6S	72.0W	0	4.2b,4.8s		¶97vii3581
NEIC	VII	23 22 14 15.4		30.58S	71.94W	33	4.8b,4.3s		
ISC	**VII**	**23 22 23 30**±1.0		**30.62S**±.055	**72.0W**±.11	**57**±12	**4.1b,**3.7s	**37**	**2-151**
NEIC	VII	23 22 23 28.1		30.53S	72.01W	33	4.8b		¶97vii3584
GUC	VII	23 22 23 29.1		30.95S	72.23W	0	4.8D		
EIDC	VII	23 22 23 29.1		30.5S	72.0W	29	4.1b,4.4L		
ISC	**VII**	**23 23 08 06.7**±.97		**34.81S**±.065	**71.7W**±.12	**59**±7.3	**4.2b,**3.6s	**34**	**1-148**
NEIC	VII	23 23 08 03.3		35.01S	71.81W	33	3.9b		¶97vii3586
EIDC	VII	23 23 08 07.4		34.8S	71.7W	46	4.0b,4.4L		
GUC	VII	23 23 08 07.5		34.70S	71.69W	40	4.6D		
NEIC	Felt I=IV MM at San Fernando; III MM at Curico, Hualane, Licanten, Rancagua and Talca; II MM at Santiago.								
ISC	**VII**	**24 01 10 57**±8.5		**34.8S**±.48	**71.7W**±.51	**39**		**13**	**1-2**
GUC	VII	24 01 10 56.2		34.82S	71.74W	39	3.7D		¶97vii3597
ISC	**VII**	**24 05 36 53**±1.1		**30.63S**±.062	**72.0W**±.11	**59**±14	**3.9b**	**29**	**2-151**
NEIC	VII	24 05 36 51.4		30.55S	72.07W	33	4.4b		¶97vii3625
GUC	VII	24 05 36 53.0		31.01S	72.31W	1	4.5D		
EIDC	VII	24 05 36 53.7		30.6S	72.0W	44	3.8b,3.8L		
GUC	**VII**	**24 07 07 36.3**		**31.67S**	**71.85W**	**24**	**3.8D**		¶97vii3637
ISC	**VII**	**24 18 07 08**±7.4		**32.5S**±.42	**71.5W**±.35	**19**±16		**11**	**1-2**
GUC	VII	24 18 07 09.9		32.61S	71.48W	25			¶97vii3711
NEIC	VII	24 18 07 09.9		32.61S	71.45W	20			
NEIC	Poor solution.								

GUC VII 24 20 35 29.4 31.79S 71.84W 29 ¶97vii3716
ISC VII 25 05 18 43±4.7 **32.8S**±.25 **71.0W**±.17 **67**±39 **11 0-2**
NEIC VII 25 05 18 45.8 32.97S 70.95W 33 **¶97vii3778**
NEIC Single network solution.
ISC VII 25 05 50 08±1.0 **30.54S**±.058 **71.9W**±.10 **47**±12 **4.2b**,4.0s **37 2-151**
NEIC VII 25 05 50 06.2 30.48S 71.97W 33 4.4b **¶97vii3780**
EIDC VII 25 05 50 08.1 30.5S 71.8W 34 4.0b,4.0L
ISC VII 25 06 47 03.0±.18 **30.48S**±.028 **71.88W**±.052 **37**±2.7* **5.4b,5.6s 280 2-176**
EIDC VII 25 06 46 58.8 30.5S 72.0W 0 5.2b,5.8s **¶97vii3783**
NEIC VII 25 06 47 02.6 30.46S 71.91W 33 5.6b,5.5s
BJI VII 25 06 47 03.2 30.38S 71.94W 42 6.2s
MOS VII 25 06 47 03.8 30.3S 72.1W 33 5.9b,5.7s
HRVD VII 25 06 47 06.4±.1 30.54S±.01 72.37W±.01 15
NEIC Mw6.2(GS), Mw6.1(HRV)
NEIC Felt I=III MM at Coquimbo and La Serena; II MM at Valparaiso.
NEIC Moment tensor solution: s37, scale 10^{18}Nm; M_{rr}1.08; $M_{\theta\theta}$−0.42; $M_{\phi\phi}$−0.66; $M_{r\theta}$0.76; $M_{r\phi}$−2.16; $M_{\theta\phi}$0.59. Depth 3km; Principal axes: T 2.57,Plg57°,Azm79°; N −0.05,Plg8°, Azm337°; P −2.52,Plg32°,Azm242°. Best double couple: $M_0$2.5×10^{18}Nm; NP1:ϕ_S305°,δ15°, λ57°. NP2:ϕ_S158°,δ78°,λ98°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c115; Mantle waves: s53,c84; Half duration: 2s3. Moment tensor: Scale 10^{18}Nm; M_{rr}1.16±.01; $M_{\theta\theta}$−0.08±.01; $M_{\phi\phi}$−1.08±.01; $M_{r\theta}$−0.05±.04; $M_{r\phi}$−0.93±.04; $M_{\theta\phi}$0.15±.01. Principal Axes: T 1.50,Plg70°,Azm100°; N −0.07,Plg5°,Azm356°; P −1.43,Plg20°,Azm264°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S345°,δ26°,λ78°. NP2:ϕ_S178°,δ65°,λ96°.
ISC VII 25 07 16 10±1.2 **30.51S**±.064 **72.0W**±.11 **34**±14 **4.4b 45 2-151**
NEIC VII 25 07 16 10.0 30.53S 72.05W 33 4.6b **¶97vii3786**
EIDC VII 25 07 16 11.0 30.5S 72.0W 28 4.4b,4.1L
ISC VII 25 07 20 01±4.5 **30.62S**±.098 **71.9W**±.19 **31**±35 **4.2b 13 3-151**
NEIC VII 25 07 20 00.6 30.58S 71.98W 33 **¶97vii3789**
EIDC VII 25 07 20 01.8 30.5S 72.0W 25 4.2b,4.2L
NEIC Less reliable solution.
ISC VII 25 07 33 27±1.8 **30.49S**±.038 **71.98W**±.083 **17**±14 **4.8b,6.0s 135 2-176**
EIDC VII 25 07 33 26.0 30.4S 71.8W 0 4.6b,4.4L **¶97vii3793**
NEIC VII 25 07 33 29.0 30.55S 72.02W 33 5.1b
MOS VII 25 07 33 29.6 30.5S 71.7W 33 5.4b
BJI VII 25 07 33 30.8 30.69S 72.18W 40 6.3s
HRVD VII 25 07 33 37.8±.2 30.69S±.04 72.30W±.04 15
NEIC Mw6.1(HRV).
NEIC Felt I=IV MM at Coquimbo, La Serena and Ovalle; III MM at Canela, Combarbala, Illapel, Monte Patria, Paihuano and Punitaqui; II MM at Salamanca and Valparaiso.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c62; Mantle waves: s1,c1; Half duration: 2s2. Moment tensor: Scale 10^{18}Nm; M_{rr}1.09±.03; $M_{\theta\theta}$−0.08±.05; $M_{\phi\phi}$−1.01±.04; $M_{r\theta}$−0.23±.10; $M_{r\phi}$−0.89±.14; $M_{\theta\phi}$−0.06±.03. Principal Axes: T 1.44,Plg69°,Azm111°; N −0.09,Plg5°,Azm8°; P −1.35,Plg20°,Azm277°. Best double couple: $M_0$1.4×10^{18}Nm, NP1:ϕ_S358°,δ25°,λ79°. NP2:ϕ_S191°,δ66°,λ95°.
ISC VII 25 07 43 06±1.7 **30.5S**±.10 **71.9W**±.18 **40**±19 **4.3b 23 2-151**
NEIC VII 25 07 43 05.8 30.51S 71.89W 33 **¶97vii3795**
EIDC VII 25 07 43 06.3 30.5S 71.8W 22 4.3b,4.0L
NEIC Less reliable solution.
ISC VII 25 08 14 16±1.3 **30.58S**±.074 **71.8W**±.12 **39**±15 **4.2b 38 2-151**
EIDC VII 25 08 14 14.2 30.6S 72.1W 26 4.3b,4.1L **¶97vii3804**
NEIC VII 25 08 14 15.2 30.54S 71.76W 33 4.4b
ISC VII 25 08 18 57±1.2 **30.6S**±.11 **71.9W**±.30 **33 4.0b 8 3-151**
NEIC VII 25 08 18 56.8 30.57S 71.88W 33 **¶97vii3805**
EIDC VII 25 08 18 57.8 30.5S 71.9W 25 3.9b,3.8L
NEIC Poor solution.
ISC VII 25 13 15 10±4.4 **30.25S**±.065 **71.8W**±.10 **11**±26 **4.7b,4.2s 86 4-159**
EIDC VII 25 13 15 12.8 30.3S 71.9W 25 4.5b,4.4s **¶97vii3831**
NEIC VII 25 13 15 13.0 30.34S 71.90W 33 4.7b,4.1s
ISC VII 27 05 21 27±1.5 **30.50S**±.031 **71.89W**±.060 **18**±11 **5.3b,5.9s 269 2-176**
EIDC VII 27 05 21 25.7 30.3S 71.9W 0 4.8b,6.0s **¶97vii4064**
BJI VII 27 05 21 29.1 30.41S 71.82W 34 6.2s
NEIC VII 27 05 21 29.2 30.52S 71.86W 33 5.6b,5.8s
MOS VII 27 05 21 30.1 30.4S 71.9W 33 5.7b
HRVD VII 27 05 21 33.8±.1 30.64S±.01 72.41W±.01 15
NEIC Mw6.3(HRV), Mw6.2(GS). Felt I=II MM.
NEIC Felt I=II MM at La Serena.
NEIC Moment tensor solution: s38, scale 10^{18}Nm; M_{rr}0.58; $M_{\theta\theta}$−0.31; $M_{\phi\phi}$−0.28; $M_{r\theta}$0.59; $M_{r\phi}$−1.75; $M_{\theta\phi}$−1.37. Depth 11km; Principal axes: T 2.58,Plg42°,Azm55°; N −0.54,Plg39°, Azm190°; P −2.04,Plg24°,Azm301°. Best double couple: $M_0$2.3×10^{18}Nm; NP1:ϕ_S80°,δ40°, λ164°. NP2:ϕ_S182°,δ80°,λ51°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c131; Mantle waves: s56,c108; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}1.92±.01; $M_{\theta\theta}$−0.11±.01; $M_{\phi\phi}$−1.80±.01; $M_{r\theta}$0.05±.05; $M_{r\phi}$−2.35±.05; $M_{\theta\phi}$0.13±.01. Principal Axes: T 3.05,Plg64°,Azm90°; N −0.11,Plg1°,Azm358°; P −2.94,Plg26°,Azm267°. Best double couple: $M_0$3.0×10^{18}Nm, NP1:ϕ_S354°,δ19°,λ86°. NP2:ϕ_S178°,δ71°,λ91°.
ISC VII 27 05 36 46±7.1 **30.5S**±.11 **71.9W**±.19 **2**±44 **4.2b 13 4-124**
NEIC VII 27 05 36 49.9 30.55S 71.88W 33 **¶97vii4068**
EIDC VII 27 05 36 51.0 30.5S 71.9W 25 4.1b,4.4L
NEIC Poor solution.
ISC VII 27 12 01 23±4.8 **34.4S**±.16 **71.9W**±.35 **8 9 1-2**
NEIC VII 27 12 01 22.7 34.36S 72.01W 10 **¶97vii4105**
GUC VII 27 12 01 23.5 34.37S 71.96W 8 3.5D
NEIC Poor solution.
ISC VII 27 14 31 14±1.9 **30.45S**±.096 **71.8W**±.16 **66**±16 **3.7b 26 3-151**
EIDC VII 27 14 31 05.4 30.7S 71.9W 0 4.0b,4.2L **¶97vii4121**
NEIC VII 27 14 31 15.3 30.35S 71.80W 78 4.5b
NEIC Less reliable solution.
ISC VII 27 21 58 25±1.3 **29.97S**±.072 **71.6W**±.16 **33 3.6b**,3.4s **17 3-93**
NEIC VII 27 21 58 25.5 29.97S 71.49W 33 4.0b **¶97vii4168**
EIDC VII 27 21 58 36.7 29.4S 69.6W 0 3.7b,3.7L
NEIC Less reliable solution.
GUC VII 28 09 34 20.5 34.62S 72.58W 30 4.4b ¶97vii4242
ISC VII 28 12 27 06±1.5 **30.68S**±.081 **72.0W**±.14 **55**±17 **4.2b**,3.4s **25 2-151**
NEIC VII 28 12 27 03.8 30.58S 72.01W 33 **¶97vii4271**
EIDC VII 28 12 27 05.8 30.6S 71.5W 27 4.4b,3.6L
NEIC Less reliable solution.
ISC VII 29 07 07 19±6.8 **32.5S**±.34 **72.0W**±.44 **20 12 1-2**
NEIC VII 29 07 07 18.4 32.55S 71.99W 20 **¶97vii4396**
GUC VII 29 07 07 22.5 32.72S 71.75W 29 3.8D
NEIC Poor solution.
ISC VII 29 18 54 50±15 **35.0S**±.80 **72.1W**±.92 **48 12 1-3**
GUC VII 29 18 54 53.6 34.83S 71.75W 48 3.6D **¶97vii4468**
ISC VII 30 01 52 34±4.2 **32.9S**±.23 **71.0W**±.17 **61**±36 **10 0-2**
NEIC VII 30 01 52 33.6 32.85S 71.04W 60 **¶97vii4518**
GUC VII 30 01 52 33.9 32.89S 71.04W 59 2.3D
NEIC Single network solution.
ISC VIII 01 03 07 26±6.6 **32.7S**±.32 **71.9W**±.45 **26 11 1-2**
GUC VIII 01 03 07 27.6 32.77S 71.78W 26 3.8D **¶97viii0018**
ISC VIII 02 00 11 52±1.0 **31.60S**±.061 **71.6W**±.15 **40 3.8b 23 1-152**
NEIC VIII 02 00 11 52.1 31.62S 71.50W 40 **¶97viii0138**
GUC VIII 02 00 11 57.4 31.97S 71.20W 40
EIDC VIII 02 00 12 01.1 30.3S 71.3W 52 3.6b
NEIC Felt I=II MM at Illapel, La Ligua, Quintero, Salamanca, San Felipe, Santa Maria and Vina del Mar.
ISC VIII 02 21 20 22±3.4 **30.0S**±.16 **71.4W**±.38 **62**±20 **9 3-73**
¶97viii0260
ISC VIII 03 08 59 43±11 **32.0S**±.74 **71.3W**±.35 **88**±59 **11 1-3**
GUC VIII 03 08 59 45.2 32.13S 71.22W 72 2.6D **¶97viii0342**
NEIC VIII 03 08 59 48.1 32.31S 71.21W 50
NEIC Poor solution.
ISC VIII 03 15 03 02±1.5 **28.44S**±.083 **71.6W**±.34 **100 12 4-13**
¶97viii0377
ISC VIII 05 08 19 11±2.9 **33.37S**±.089 **71.3W**±.17 **55**±34 **13 0-1**
NEIC VIII 05 08 19 10.4 33.37S 71.34W 60 **¶97viii0636**
GUC VIII 05 08 19 10.8 33.37S 71.30W 55 2.6D
NEIC Single network solution.
ISC VIII 06 05 20 24±14 **31.9S**±.98 **71.3W**±.43 **84**±50 **10 1-2**
NEIC VIII 06 05 20 24.2 31.93S 71.23W 80 **¶97viii0757**
GUC VIII 06 05 20 24.6 31.94S 71.25W 78 3.1D
NEIC Poor solution.
ISC VIII 06 07 33 26±7.3 **32.6S**±.40 **71.7W**±.39 **20 11 1-2**
GUC VIII 06 07 33 24.2 32.50S 71.81W 23 3.5D **¶97viii0770**
NEIC VIII 06 07 33 25.3 32.57S 71.72W 20
NEIC Poor solution.
ISC VIII 06 22 50 12.5±.85 **30.67S**±.044 **71.86W**±.072 **33**±8.8 **4.7b,4.5s 116 2-177**
EIDC VIII 06 22 50 07.5 30.6S 72.1W 0 4.8b,4.6L **¶97viii0848**
HRVD VIII 06 22 50 11.2±.5 30.67S 71.89W 15
NEIC VIII 06 22 50 12.1 30.67S 71.89W 33 4.9b,4.5s
BJI VIII 06 22 50 13.2 30.58S 71.41W 28
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c31; Half duration: 1s0. Moment tensor: Scale 10^{17}Nm; M_{rr}0.61±.06; $M_{\theta\theta}$−0.33±.09; $M_{\phi\phi}$−0.28±.08; $M_{r\theta}$−0.30±.19; $M_{r\phi}$−2.52±.15; $M_{\theta\phi}$0.12±.06. Principal Axes: T 2.75,Plg50°,Azm99°; N −0.35, Plg2°,Azm6°; P −2.40,Plg40°,Azm274°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S339°, δ5°,λ63°. NP2:ϕ_S186°,δ85°,λ92°.
NEIC Mw5.6(HRV).
ISC VIII 09 14 23 41±1.5 **32.45S**±.098 **71.8W**±.18 **50**±23 3.3b **20 1-68**
EIDC VIII 09 14 23 36.3 32.4S 72.6W 0 3.8L,3.3b **¶97viii1266**
NEIC VIII 09 14 23 39.4 32.37S 71.84W 33
GUC VIII 09 14 23 42.0 32.47S 71.60W 35 4.4D
NEIC Felt I=III MM at Quillota, Quilpue, Villa Alemana and Vina del Mar; II MM at Concon, La Ligua, Llaillay, Puchuncavi, San Felipe, Valparaiso and Zapallar.
ISC VIII 09 16 40 49±1.7 **30.54S**±.037 **71.96W**±.075 **21**±13 **4.5b,4.4s 84 2-169**
NEIC VIII 09 16 40 49.5 30.53S 71.84W 26 4.7b **¶97viii1283**
EIDC VIII 09 16 40 50.8 30.6S 71.9W 25 4.5b,4.6L
BJI VIII 09 16 40 56.0 30.50S 71.80W 26
ISC VIII 10 19 38 49±6.7 **32.6S**±.35 **71.6W**±.34 **16**±17 **11 1-2**
NEIC VIII 10 19 38 48.1 32.60S 71.60W 10 **¶97viii1448**
GUC VIII 10 19 38 51.2 32.69S 71.48W 17
NEIC Single network solution.
ISC VIII 10 23 42 23±6.8 **34.1S**±.16 **72.1W**±.52 **16**±15 **13 1-2**
GUC VIII 10 23 42 24.1 34.08S 72.05W 33 3.4D **¶97viii1477**
NEIC VIII 10 23 42 24.2 34.06S 72.06W 26
NEIC Poor solution.
ISC VIII 11 06 10 37±9.5 **32.3S**±.60 **71.6W**±.38 **20 11 1-2**
NEIC VIII 11 06 10 35.9 32.29S 71.71W 20 **¶97viii1512**
GUC VIII 11 06 10 36.5 32.32S 71.73W 19 3.1D
NEIC Poor solution.
ISC VIII 13 19 26 49.6±.84 **28.66S**±.047 **71.20W**±.072 **56**±9.0 **4.5b,4.0s 74 3-166**
NEIC VIII 13 19 26 48.1 28.61S 71.25W 41 4.6b **¶97viii1948**
EIDC VIII 13 19 26 49.8 28.5S 71.1W 42 4.3b,4.0s
BJI VIII 13 19 26 50.1 28.53S 71.14W 31
NEIC Felt I=V MM at Freirina, Huasco and Vallenar; IV MM at Alto del Carmen and Copiapo.
GUC VIII 14 09 33 35.7 31.41S 71.91W 26 ¶97viii2037
ISC VIII 15 00 14 07±1.2 **28.46S**±.064 **71.2W**±.11 **53**±16 **4.0b 33 3-149**
EIDC VIII 15 00 14 00.2 28.7S 71.2W 0 3.9b,4.2L **¶97viii2136**
NEIC VIII 15 00 14 04.8 28.37S 71.15W 33 4.5b
ISC VIII 15 02 04 31±3.5 **33.63S**±.078 **71.8W**±.32 **20**±13 **10 0-1**
GUC VIII 15 02 04 30.2 33.59S 71.91W 22 3.1D **¶97viii2145**
NEIC VIII 15 02 04 31.8 33.62S 71.73W 20
NEIC Single network solution.
GUC VIII 15 06 25 55.7 34.76S 72.68W 22 ¶97viii2169
ISC VIII 15 13 08 26±3.1 **33.35S**±.091 **71.2W**±.15 **59**±34 **12 0-1**
GUC VIII 15 13 08 25.4 33.35S 71.18W 60 **¶97viii2223**
NEIC VIII 15 13 08 25.5 33.36S 71.21W 60
NEIC Single network solution.
ISC VIII 17 10 40 39±7.9 **34.2S**±.31 **72.0W**±.63 **30 7 1-1**
GUC VIII 17 10 40 34.7 34.29S 72.27W 30 3.7D **¶97viii2524**
ISC VIII 18 12 24 26.6±.21 **29.90S**±.032 **71.96W**±.053 **33 4.9b,5.1s 182 3-168**
EIDC VIII 18 12 24 22.4 29.8S 72.0W 0 4.7b,5.3s **¶97viii2678**
NEIC VIII 18 12 24 26.2 29.93S 72.01W 33 5.0b,5.0s
MOS VIII 18 12 24 26.8 29.9S 71.6W 33 5.2b,4.9s
BJI VIII 18 12 24 27.7 29.88S 71.85W 41 6.0s
HRVD VIII 18 12 24 30.8±.2 30.08S±.02 72.42W±.02 15
NEIC Mw5.7(HRV)
NEIC Felt I=IV MM at La Higuera and La Serena.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c84; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}3.15±.06; $M_{\theta\theta}$−0.18±.09; $M_{\phi\phi}$−2.96±.08; $M_{r\theta}$0.24±.19; $M_{r\phi}$−2.77±.21; $M_{\theta\phi}$−0.03±.06. Principal Axes: T 4.23,Plg69°,Azm82°; N −0.19, Plg3°,Azm178°; P −4.03,Plg21°,Azm269°. Best double couple: $M_0$4.1×10^{17}Nm, NP1:ϕ_S4°, δ24°,λ96°. NP2:ϕ_S177°,δ66°,λ87°.
ISC VIII 19 17 49 31±4.3 **32.1S**±.22 **71.7W**±.33 **32 12 1-3**
GUC VIII 19 17 49 30.1 32.02S 71.56W 32 4.3D **¶97viii2845**
ISC VIII 20 09 30 29±2.9 **32.6S**±.14 **71.7W**±.21 **10 13 1-3**
NEIC VIII 20 09 30 24.1 32.36S 71.90W 10 **¶97viii2936**
GUC VIII 20 09 30 29.5 32.57S 71.64W 11 4.1D
NEIC Poor solution.
ISC VIII 22 13 12 27±8.3 **32.5S**±.43 **71.9W**±.47 **10 9 1-2**
NEIC VIII 22 13 12 26.6 32.53S 71.93W 10 **¶97viii3227**
GUC VIII 22 13 12 28.1 32.55S 71.91W 15 4.0D
NEIC Poor solution.
ISC VIII 23 23 52 36±6.5 **34.7S**±.55 **71.1W**±.26 **82 9 1-2**
NEIC VIII 23 23 52 34.7 34.81S 71.12W 80 **¶97viii3466**
GUC VIII 23 23 52 35.2 34.76S 71.15W 82
NEIC Poor solution.
GUC VIII 24 09 47 22.3 32.21S 71.60W 34 3.8D ¶97viii3513
GUC VIII 24 11 47 31.4 31.81S 71.76W 30 3.6D ¶97viii3523
ISC VIII 24 12 38 19.0±.50 **30.12S**±.042 **71.84W**±.088 **33 4.0b**,3.6s **29 3-151**
EIDC VIII 24 12 38 13.9 30.3S 72.2W 0 4.0b,4.0L **¶97viii3531**
NEIC VIII 24 12 38 17.7 30.36S 71.95W 33 4.3b
NEIC Less reliable solution.

Agency	mo	d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII**	**24**	**14**	**35**	**34**±5.9	**31.8S**±.30	**72.0W**±.44	**30**		**10**	**1-3**
GUC	VIII	24	14	35	33.6	31.77S	71.81W	30	4.0D		¶97viii3549
GUC	**VIII**	**24**	**21**	**17**	**36.8**	**32.00S**	**71.75W**	**31**			¶97viii3592
GUC	**VIII**	**25**	**17**	**12**	**32.2**	**36.22S**	**72.88W**	**60**	**3.6D**		¶97viii3716
ISC	**VIII**	**26**	**16**	**46**	**47**±6.4	**33.6S**±.11	**71.8W**±.56	**41**±36		**11**	**0-1**
NEIC	VIII	26	16	46	47.0	33.58S	71.78W	40			¶97viii3879
GUC	VIII	26	16	46	47.5	33.58S	71.66W	43	3.8D		
NEIC	Single network solution.										
ISC	**VIII**	**31**	**08**	**40**	**38**±3.8	**36.26S**±.097	**73.4W**±.59	**38**		**11**	**1-4**
NEIC	VIII	31	08	40	38.4	36.26S	73.34W	33			¶97viii4623
GUC	VIII	31	08	40	39.3	36.34S	73.14W	38	4.1D		
NEIC	Poor solution.										
ISC	**VIII**	**31**	**19**	**44**	**23**±4.8	**31.6S**±.32	**71.1W**±.36	**87**		**13**	**1-3**
GUC	VIII	31	19	44	31.9	32.27S	71.03W	87	3.6D		¶97viii4699
NEIC	VIII	31	19	44	33.2	32.36S	71.04W	80			
NEIC	Poor solution.										
GUC	**IX**	**01**	**02**	**36**	**35.4**	**32.21S**	**71.95W**	**13**	**4.0D**		¶97ix0026
ISC	**IX**	**01**	**06**	**49**	**40**±9.5	**32.2S**±.65	**71.5W**±.39	**60**		**10**	**1-2**
NEIC	IX	01	06	49	40.5	32.17S	71.51W	50			¶97ix0063
GUC	IX	01	06	49	40.7	32.18S	71.46W	60	3.3D		
NEIC	Poor solution.										
ISC	**IX**	**02**	**02**	**17**	**06**±12	**32.3S**±.70	**71.8W**±.63	**33**		**12**	**1-2**
NEIC	IX	02	02	17	05.4	32.25S	71.83W	33			¶97ix0206
GUC	IX	02	02	17	08.6	32.45S	71.62W	33	4.0D		
NEIC	Poor solution.										
ISC	**IX**	**02**	**02**	**41**	**39.7**±.74	**29.27S**±.043	**71.30W**±.079	**68**±7.6	**4.6b**	**52**	**3-150**
NEIC	IX	02	02	41	39.0	29.26S	71.30W	63	4.8b		¶97ix0209
EIDC	IX	02	02	41	40.9	29.2S	71.3W	63	4.6b,3.9s		
GUC	IX	02	02	41	41.9	29.57S	71.95W	33	4.8D		
NEIC	Felt I=III MM at Andacollo, Coquimbo, La Serena and Tongoy.										
ISC	**IX**	**02**	**10**	**53**	**49.0**±.50	**31.83S**±.042	**71.01W**±.069	**81**±5.8	**4.5b**	**77**	**1-164**
NEIC	IX	02	10	53	48.0	31.78S	71.02W	72	4.6b		¶97ix0263
EIDC	IX	02	10	53	49.2	31.9S	71.1W	73	4.5b,3.6s		
GUC	IX	02	10	53	50.1	31.90S	71.24W	63	4.9D		
NEIC	Felt I=V MM at Illapel and Los Vilos; IV MM at Cabildo, Canela, La Ligua, Papudo, Petorca, Salamanca and Zapallar; III MM at Chincolco, Los Andes, Quintero, San Felipe and Santiago; II MM at Concon.										
ISC	**IX**	**04**	**01**	**02**	**15**±13	**32.1S**±.86	**71.6W**±.58	**45**		**8**	**1-2**
NEIC	IX	04	01	02	15.7	32.14S	71.57W	45			¶97ix0524
GUC	IX	04	01	02	16.6	32.22S	71.52W	46	3.7D		
NEIC	Poor solution.										
ISC	**IX**	**04**	**23**	**20**	**42**±2.3	**33.66S**±.089	**71.7W**±.23	**38**		**12**	**0-1**
GUC	IX	04	23	20	42.0	33.66S	71.59W	38	3.9D		¶97ix0651
NEIC	IX	04	23	20	42.2	33.65S	71.61W	33			
NEIC	Single network solution.										
ISC	**IX**	**05**	**15**	**40**	**45**±7.3	**32.5S**±.35	**72.0W**±.48	**20**		**11**	**1-2**
NEIC	IX	05	15	40	45.8	32.58S	71.90W	20			¶97ix0762
GUC	IX	05	15	40	49.5	32.73S	71.71W	17	3.9D		
NEIC	Poor solution.										
ISC	**IX**	**05**	**20**	**57**	**29.1**±.67	**28.96S**±.037	**71.24W**±.060	**47**±6.8	**4.7b,4.3s**	**123**	**3-172**
NEIC	IX	05	20	57	27.6	28.92S	71.22W	33	5.0b,4.3s		¶97ix0800
EIDC	IX	05	20	57	28.4	29.0S	71.3W	29	4.5b,4.5s		
BJI	IX	05	20	57	30.6	28.90S	71.20W	33			
NEIC	Felt I=IV MM at Copiapo and III MM at Freirina, Huasco, Tierra Amarilla and Vallenar.										
ISC	**IX**	**07**	**15**	**38**	**17**±8.0	**32.6S**±.42	**71.9W**±.45	**10**		**10**	**1-2**
NEIC	IX	07	15	38	17.1	32.60S	71.87W	10			¶97ix1096
GUC	IX	07	15	38	18.4	32.63S	71.82W	10	3.3D		
NEIC	Poor solution.										
ISC	**IX**	**09**	**07**	**17**	**12**±6.3	**32.4S**±.41	**71.5W**±.36	**58**		**11**	**1-2**
NEIC	IX	09	07	17	11.5	32.33S	71.49W	60			¶97ix1338
GUC	IX	09	07	17	12.3	32.40S	71.45W	58			
NEIC	Poor solution.										
GUC	**IX**	**10**	**08**	**31**	**15.8**	**32.10S**	**71.20W**	**70**			¶97ix1498
GUC	**IX**	**10**	**14**	**50**	**17.5**	**36.17S**	**72.76W**	**64**	**3.4D**		¶97ix1534
GUC	**IX**	**10**	**18**	**38**	**34.1**	**31.96S**	**71.52W**	**38**	**3.7D**		¶97ix1559
ISC	**IX**	**10**	**18**	**58**	**18**±6.4	**32.6S**±.31	**71.2W**±.31	**9**±18		**7**	**0-1**
NEIC	IX	10	18	58	16.8	32.57S	71.20W	5			¶97ix1564
GUC	IX	10	18	58	19.2	32.65S	71.06W	7			
NEIC	Single network solution.										
ISC	**IX**	**11**	**05**	**23**	**52**±4.7	**33.41S**±.095	**71.3W**±.23	**58**±50		**10**	**0-1**
GUC	IX	11	05	23	51.8	33.43S	71.28W	61			¶97ix1639
NEIC	IX	11	05	23	52.1	33.41S	71.30W	60			
NEIC	Single network solution.										
ISC	**IX**	**12**	**18**	**02**	**01**±4.1	**32.7S**±.25	**71.1W**±.20	**5**		**7**	**0-2**
NEIC	IX	12	18	02	00.4	32.67S	71.11W	5			¶97ix1855
GUC	IX	12	18	02	00.6	32.63S	71.08W	5			
NEIC	Single network solution.										
ISC	**IX**	**13**	**05**	**38**	**23**±7.9	**32.5S**±.42	**71.9W**±.44	**15**		**12**	**1-2**
GUC	IX	13	05	38	25.9	32.68S	71.71W	15	3.7D		¶97ix1926
ISC	**IX**	**13**	**07**	**23**	**55**±4.8	**32.0S**±.25	**71.8W**±.36	**37**		**16**	**1-6**
NEIC	IX	13	07	23	55.5	32.00S	71.77W	35			¶97ix1947
GUC	IX	13	07	23	59.9	32.30S	71.52W	37	4.4D		
NEIC	Less reliable solution.										
NEIC	Felt I=II MM at La Ligua.										
ISC	**IX**	**13**	**08**	**32**	**20**±4.9	**33.53S**±.086	**71.8W**±.40	**18**±13		**13**	**0-1**
NEIC	IX	13	08	32	19.1	33.53S	71.93W	15			¶97ix1954
GUC	IX	13	08	32	19.8	33.55S	71.91W	13	3.7D		
NEIC	Single network solution.										
ISC	**IX**	**15**	**20**	**59**	**51**±3.1	**33.63S**±.080	**71.7W**±.26	**17**±16		**10**	**0-1**
GUC	IX	15	20	59	48.5	33.65S	71.90W	14	3.4D		¶97ix2285
NEIC	IX	15	20	59	50.3	33.63S	71.71W	20			
NEIC	Single network solution.										
ISC	**IX**	**17**	**09**	**03**	**56.9**±.79	**34.41S**±.060	**71.1W**±.11	**81**±10		**18**	**0-18**
NEIC	IX	17	09	03	56.8	34.41S	71.02W	80	3.6b		¶97ix2490
GUC	IX	17	09	03	58.2	34.36S	71.09W	64			
NEIC	Felt I=IV MM at Curico, Iloca, Licanten and Rancagua, III MM at Santiago and II MM at Talca.										
ISC	**IX**	**18**	**10**	**02**	**31**±10	**32.1S**±.66	**71.8W**±.39	**16**		**14**	**1-3**
NEIC	IX	18	10	02	30.1	32.10S	71.85W	10			¶97ix2644
GUC	IX	18	10	02	30.8	32.09S	71.85W	16			
NEIC	Poor solution.										
ISC	**IX**	**20**	**00**	**52**	**04**±1.4	**33.67S**±.070	**71.5W**±.18	**33**±9.2		**12**	**0-1**
GUC	IX	20	00	52	03.1	33.67S	71.54W	44	3.5D		¶97ix2877
NEIC	IX	20	00	52	03.5	33.67S	71.57W	40			
NEIC	Single network solution.										
ISC	**IX**	**20**	**13**	**42**	**26**±14	**32.1S**±.90	**71.5W**±.59	**41**		**9**	**1-3**
GUC	IX	20	13	42	27.3	32.19S	71.48W	41	3.6D		¶97ix2947
ISC	**IX**	**20**	**17**	**12**	**21**±5.6	**32.6S**±.31	**71.7W**±.31	**10**		**11**	**1-2**
NEIC	IX	20	17	12	20.1	32.57S	71.76W	10			¶97ix2972
GUC	IX	20	17	12	20.3	32.58S	71.74W	4	3.3D		
NEIC	Poor solution.										
ISC	**IX**	**20**	**23**	**12**	**43**±1.4	**37.0S**±.14	**72.3W**±.17	**80**±12	**4.5b**	**21**	**1-76**
NEIC	IX	20	23	12	41.9	37.05S	72.39W	100			¶97ix3009
GUC	IX	20	23	12	43.0	36.94S	72.62W	105	4.3D		
NEIC	Less reliable solution.										
NEIC	Felt I=III MM at Concepcion and Chillan; II MM at Angol, Coronel and Los Angeles.										
GUC	**IX**	**21**	**07**	**32**	**54.9**	**32.73S**	**71.71W**	**29**	**3.7D**		¶97ix3056
ISC	**IX**	**22**	**07**	**00**	**23**±5.2	**33.74S**±.092	**72.0W**±.42	**22**±14		**12**	**0-2**
GUC	IX	22	07	00	23.5	33.72S	71.95W	29	3.3D		¶97ix3237
ISC	**IX**	**23**	**04**	**55**	**46**±6.0	**32.8S**±.26	**71.9W**±.42	**29**±14		**14**	**1-2**
NEIC	IX	23	04	55	45.7	32.82S	71.89W	40			¶97ix3376
GUC	IX	23	04	55	47.9	32.94S	71.67W	39	3.4D		
NEIC	Poor solution.										
ISC	**IX**	**23**	**05**	**46**	**25**±7.3	**32.4S**±.43	**71.7W**±.35	**15**		**12**	**1-2**
NEIC	IX	23	05	46	22.1	32.36S	71.83W	10			¶97ix3382
GUC	IX	23	05	46	26.6	32.54S	71.67W	15	3.7D		
NEIC	Poor solution.										
GUC	**IX**	**23**	**14**	**21**	**09.6**	**32.16S**	**71.86W**	**20**	**3.4D**		¶97ix3434
NEIC	IX	23	14	21	09.4	32.15S	71.86W	20			
NEIC	Poor solution.										
ISC	**IX**	**24**	**22**	**06**	**56.9**±.76	**31.74S**±.047	**71.48W**±.078	**57**±7.2	**4.9b**	**74**	**1-170**
GUC	IX	24	22	06	56.4	31.84S	71.64W	26	5.0D		¶97ix3641
BJI	IX	24	22	06	56.4	31.70S	71.50W	54	5.5s		
NEIC	IX	24	22	06	56.4	31.74S	71.55W	54	4.9b		
EIDC	IX	24	22	06	56.7	31.8S	71.5W	42	4.7b,4.6L		
NEIC	Felt I=IV MM at La Ligua, Petorca, Quillota and Valparaiso; III MM at Canela, Illapel, Los Vilos, Salamanca, San Felipe and Santiago; II MM at Los Andes, Rancagua and San Antonio.										
ISC	**IX**	**25**	**12**	**00**	**14**±4.8	**33.1S**±.16	**72.0W**±.38	**20**		**12**	**1-2**
GUC	IX	25	12	00	11.9	33.02S	72.11W	28	3.4D		¶97ix3735
NEIC	IX	25	12	00	13.7	33.08S	71.95W	20			
NEIC	Poor solution.										
ISC	**IX**	**26**	**09**	**09**	**59**±6.3	**33.4S**±.12	**71.9W**±.49	**16**±18		**10**	**0-2**
GUC	IX	26	09	09	59.6	33.40S	71.92W	21	3.4D		¶97ix3930
NEIC	IX	26	09	10	01.2	33.36S	71.74W	20			
NEIC	Single network solution.										
ISC	**IX**	**26**	**10**	**57**	**50**±4.0	**33.1S**±.17	**71.3W**±.21	**61**±35		**11**	**0-2**
GUC	IX	26	10	57	50.6	33.11S	71.27W	54	3.4D		¶97ix3960
NEIC	IX	26	10	57	51.0	33.09S	71.28W	50			
NEIC	Single network solution.										
ISC	**IX**	**26**	**17**	**16**	**47**±2.9	**32.7S**±.14	**71.6W**±.22	**20**		**13**	**1-3**
GUC	IX	26	17	16	44.4	32.54S	71.73W	25	3.8D		¶97ix4091
NEIC	IX	26	17	16	47.5	32.73S	71.57W	20			
NEIC	Less reliable solution.										
ISC	**IX**	**27**	**16**	**03**	**33**±9.5	**32.5S**±.35	**71.6W**±.33	**8**±44		**12**	**1-2**
NEIC	IX	27	16	03	33.8	32.57S	71.58W	20			¶97ix4402
GUC	IX	27	16	03	34.4	32.59S	71.58W	22	3.5D		
NEIC	Poor solution.										
ISC	**IX**	**27**	**16**	**47**	**30**±6.3	**32.7S**±.31	**71.7W**±.39	**10**		**12**	**1-2**
NEIC	IX	27	16	47	29.8	32.72S	71.70W	10			¶97ix4413
GUC	IX	27	16	47	30.8	32.69S	71.70W	15	3.3D		
NEIC	Poor solution.										
GUC	**IX**	**27**	**16**	**54**	**50.5**	**33.27S**	**71.89W**	**18**	**3.7D**		¶97ix4414
NEIC	IX	27	16	54	49.2	33.26S	71.95W	20			
NEIC	Single network solution.										
ISC	**IX**	**27**	**17**	**39**	**05**±9.6	**32.6S**±.45	**71.9W**±.63	**72**±52		**13**	**1-2**
NEIC	IX	27	17	39	08.1	32.73S	71.75W	50			¶97ix4422
GUC	IX	27	17	39	09.7	32.82S	71.60W	53	3.6D		
NEIC	Poor solution.										
ISC	**IX**	**28**	**11**	**13**	**58**±1.3	**30.65S**±.074	**71.6W**±.13	**55**±13	**4.0b**,3.3s	**33**	**2-151**
NEIC	IX	28	11	13	59.6	30.67S	71.51W	68	3.5b		¶97ix4626
EIDC	IX	28	11	14	01.8	30.7S	71.5W	71	3.7b,3.3s		
ISC	**IX**	**29**	**06**	**11**	**09**±2.7	**33.68S**±.075	**71.1W**±.15	**74**±30		**13**	**0-1**
GUC	IX	29	06	11	09.0	33.68S	71.08W	68	3.3D		¶97ix4883
GUC	**X**	**01**	**21**	**12**	**31.5**	**34.58S**	**72.12W**	**30**	**3.8D**		¶97x0152
GUC	**X**	**01**	**22**	**32**	**09.3**	**34.88S**	**72.62W**	**25**	**3.9D**		¶97x0167
ISC	**X**	**02**	**05**	**44**	**37**±10	**32.3S**±.64	**71.6W**±.48	**33**		**12**	**1-2**
GUC	X	02	05	44	37.7	32.37S	71.51W	33	4.0D		¶97x0217
NEIC	X	02	05	44	38.1	32.35S	71.49W	33			
NEIC	Poor solution.										
ISC	**X**	**03**	**08**	**07**	**26**±11	**32.0S**±.71	**71.9W**±.41	**5**		**9**	**1-2**
NEIC	X	03	08	07	26.1	31.99S	71.88W	5			¶97x0420
GUC	X	03	08	07	28.1	32.09S	71.79W	4	3.6D		
NEIC	Poor solution.										
ISC	**X**	**04**	**02**	**55**	**12**±3.2	**30.9S**±.17	**71.5W**±.42	**74**		**14**	**2-4**
NEIC	X	04	02	55	12.4	30.97S	71.45W	70			¶97x0566
GUC	X	04	02	55	14.3	31.07S	71.33W	74	3.6D		
NEIC	Less reliable solution.										
ISC	**X**	**04**	**07**	**46**	**15**±3.5	**33.1S**±.11	**72.0W**±.28	**15**		**15**	**0-3**
NEIC	X	04	07	46	12.3	32.99S	72.13W	15			¶97x0609
GUC	X	04	07	46	13.2	33.01S	72.11W	15	4.2D		
NEIC	Less reliable solution.										
ISC	**X**	**07**	**11**	**50**	**52**±7.8	**32.2S**±.47	**71.8W**±.34	**10**		**12**	**1-2**
NEIC	X	07	11	50	51.8	32.24S	71.76W	10			¶97x1242
GUC	X	07	11	50	52.2	32.19S	71.77W	23			
NEIC	Poor solution.										
ISC	**X**	**08**	**11**	**43**	**45**±9.3	**32.8S**±.42	**71.8W**±.60	**67**±49		**13**	**1-2**
NEIC	X	08	11	43	46.9	32.84S	71.67W	50			¶97x1407
GUC	X	08	11	43	48.0	32.91S	71.53W	54	3.9D		
NEIC	Single network solution.										
ISC	**X**	**09**	**04**	**04**	**25**±3.8	**32.0S**±.23	**71.3W**±.31	**87**±28		**15**	**1-3**
NEIC	X	09	04	04	25.6	32.05S	71.22W	80			¶97x1521
GUC	X	09	04	04	26.5	32.09S	71.17W	75	3.6D		
NEIC	Less reliable solution.										
ISC	**X**	**09**	**21**	**24**	**05**±6.2	**32.9S**±.24	**71.9W**±.44	**15**		**12**	**1-2**
NEIC	X	09	21	24	04.7	32.91S	71.98W	15			¶97x1645
GUC	X	09	21	24	05.7	32.94S	71.94W	15	3.8D		
NEIC	Single network solution.										
ISC	**X**	**11**	**03**	**13**	**57**±4.5	**32.8S**±.24	**71.3W**±.20	**60**±34		**12**	**0-2**
NEIC	X	11	03	13	56.4	32.82S	71.29W	60			¶97x1838
GUC	X	11	03	13	57.2	32.88S	71.22W	57	2.8D		
NEIC	Single network solution.										
GUC	**X**	**11**	**14**	**01**	**24.3**	**30.84S**	**71.83W**	**52**	**4.0D**		¶97x1900
ISC	**X**	**14**	**11**	**04**	**48**±6.8	**31.6S**±.38	**71.5W**±.52	**33**		**10**	**2-3**
NEIC	X	14	11	04	48.1	31.67S	71.44W	33			¶97x2386
NEIC	Poor solution.										
ISC	**X**	**15**	**01**	**03**	**33.0**±.47	**30.89S**±.025	**71.14W**±.035	**54**±4.5	**6.7b,6.8s**	**738**	**2-177**
EIDC	X	15	01	03	26.8	30.9S	71.1W	0	6.4b,7.2s		¶97x2523
GUC	X	15	01	03	31.3	30.77S	71.32W	56	6.8D		
BJI	X	15	01	03	33.4	30.90S	71.20W	58	7.4s		

NEIC X 15 01 03 33.4 30.93S 71.22W 58 6.8b,6.8s
MOS X 15 01 03 34.5 30.9S 71.0W 60 7.0b
HRVD X 15 01 03 42.6±.1 31.06S±.01 71.42W±.01 70±.5
NEIC Me7.6(GS), Mw7.1(GS). Casualties I=VII MM, landslide/avalanche observed.
NEIC Radiated energy from the P−wave first−motion solution: 5.3±1.5×10^{15}Nm/16
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S175°,δ85°,λ−120°. NP2:ϕ_S76°,δ30°,λ−10°. Principal axes: T Plg33°,Azm290°; P Plg42°,Azm56°. Two events about 5 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event.
NEIC Moment tensor solution: s28, scale 10^{19}Nm; M_{rr}−1.30; $M_{\theta\theta}$−0.29; $M_{\phi\phi}$1.59; $M_{r\theta}$−0.79; $M_{r\phi}$4.55; $M_{\theta\phi}$0.90. Depth 67km; Principal axes: T 4.93,Plg36°,Azm274°; N −0.01,Plg13°, Azm174°; P −4.92,Plg51°,Azm67°. Best double couple: M$_O$4.9×10^{19}Nm; NP1:ϕ_S52°,δ15°, λ−31°. NP2:ϕ_S172°,δ82°,λ−103°.
NEIC Mw 7.1 (HRV). Ms 6.7 (BRK). Five people killed at Pueblo Nuevo, one person killed at Coquimbo, one person killed at La Chimba and another died of a heart attack at Punitaqui. More than 300 people injured, 5,000 houses destroyed, 15,700 houses damaged, numerous power and telephone outages, landslides and rockslides in the epicentral region. Some damage I=VII MM at La Serena and VI MM at Ovalle. Felt VI MM at Alto del Carmen and Illapel; V MM at Copiapo, Huasco, San Antonio, Santiago and Vallenar; IV MM at Caldera, Chanaral, Rancagua and Tierra Amarilla; III MM at Talca; II MM at Concepcion and Taltal. Felt as far south as Valdivia. Felt V MM in Mendoza and San Juan Provinces, Argentina. Felt in Buenos Aires, Catamarca, Cordoba and La Rioja Provinces and Distrito Federal, Argentina. Also felt in parts of Bolivia and Peru. Mo=6.6×10^{19}Nm (PPT).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s59,c163; Mantle waves: s60,c155; Half duration: 9^{S}0. Moment tensor: Scale 10^{19}Nm; M_{rr}−1.59±.02; $M_{\theta\theta}$0.17±.01; $M_{\phi\phi}$1.42±.01; $M_{r\theta}$−0.45±.02; $M_{r\phi}$4.59±.03; $M_{\theta\phi}$−0.80±.01. Principal Axes: T 4.92,Plg35°,Azm257°; N 0.00,Plg7°,Azm352°; P −4.91,Plg54°,Azm92°. Best double couple: M$_O$4.9×10^{19}Nm, NP1:ϕ_S315°,δ12°,λ−128°. NP2:ϕ_S173°,δ80°,λ−83°.

GUC X 15 01 15 49.6 31.14S 71.71W 23 ¶97x2526
ISC X 15 01 18 41±1.3 **30.77S**±.088 **71.16W**±.099 **50**±14 **5.1b** **53 2-151**
NEIC X 15 01 18 40.9 30.78S 71.21W 49 5.0b **¶97x2527**
EIDC X 15 01 18 41.0 30.9S 71.3W 45 5.0b
GUC X 15 01 18 43.4 31.24S 71.75W 11
ISC X 15 01 29 14±1.6 **31.2S**±.12 **71.5W**±.31 **109**±23 4.5b **17 2-26**
EIDC X 15 01 29 08.5 31.1S 71.1W 0 4.0L,4.9b **¶97x2528**
GUC X 15 01 29 12.1 30.91S 71.43W 50
NEIC X 15 01 29 12.6 30.93S 71.03W 33
NEIC Less reliable solution.
ISC X 15 01 38 15±1.2 **30.82S**±.081 **71.3W**±.14 **61**±12 **4.5b** **30 2-149**
NEIC X 15 01 38 13.9 30.73S 71.25W 45 5.1b **¶97x2530**
GUC X 15 01 38 14.8 31.01S 71.83W 22
EIDC X 15 01 38 15.4 30.8S 71.2W 44 4.3b,4.0L
GUC X 15 02 05 46.8 31.07S 71.63W 53 ¶97x2534
ISC X 15 02 08 00±1.1 **30.86S**±.076 **71.1W**±.11 **69**±11 **4.3b** **38 2-149**
NEIC X 15 02 07 57.7 30.71S 71.18W 50 4.7b **¶97x2536**
EIDC X 15 02 07 58.9 30.9S 71.2W 50 4.2b
GUC X 15 02 08 00.7 31.08S 71.52W 20
ISC X 15 03 53 34±1.5 **30.9S**±.11 **71.5W**±.22 **92**±17 4.3b **22 2-93**
EIDC X 15 03 53 22.2 31.5S 71.6W 0 3.8L,4.7b **¶97x2558**
NEIC X 15 03 53 28.8 30.49S 71.53W 33 3.8b
GUC X 15 03 53 32.8 30.93S 71.62W 15
NEIC Less reliable solution.
GUC X 15 04 22 12.3 31.05S 71.65W 45 ¶97x2562
ISC X 15 04 28 48.7±.53 **30.87S**±.033 **71.17W**±.050 **64**±5.6 **5.4b** **224 2-177**
GUC X 15 04 28 45.8 30.78S 71.67W 32 **¶97x2565**
BJI X 15 04 28 46.7 29.89S 72.13W 48
NEIC X 15 04 28 47.0 30.81S 71.25W 48 5.5b
EIDC X 15 04 28 47.5 31.0S 71.5W 49 5.1b,4.9s
MOS X 15 04 28 50.3 31.0S 71.1W 79 5.9b
NEIC Felt I=V MM at Hurtado; IV MM at Combarbala, Coquimbo and La Serena; II MM at Los Andes, Quillota, Quintero, San Felipe, Vina del Mar and Zapallar.
GUC X 15 04 42 13.5 30.90S 71.65W 54 4.2D ¶97x2566
ISC X 15 04 50 38.3±.81 **30.93S**±.061 **71.36W**±.080 **77**±9.0 **4.3b** **54 2-147**
NEIC X 15 04 50 35.5 30.76S 71.30W 46 4.4b **¶97x2568**
GUC X 15 04 50 35.8 30.77S 71.64W 48
EIDC X 15 04 50 36.3 30.9S 71.4W 45 4.2b
NEIC Felt I=V MM at Illapel, Ovalle and Salamanca; IV MM at Coquimbo, La Serena and Los Vilos; III MM at La Ligua and Vina del Mar; II MM at San Felipe and Valparaiso.
ISC X 15 05 13 05±1.6 **31.2S**±.11 **71.6W**±.22 **92**±16 3.9b **20 2-93**
EIDC X 15 05 13 00.6 31.2S 70.6W 0 4.2b,4.0L **¶97x2569**
GUC X 15 05 13 03.6 31.04S 71.67W 46 4.3D
NEIC X 15 05 13 05.3 31.04S 70.85W 50
NEIC Less reliable solution.
ISC X 15 05 26 44±15 **31.2S**±.97 **71.7W**±.62 **54** **14 2-3**
GUC X 15 05 26 42.1 30.99S 71.66W 54 4.0D **¶97x2572**
ISC X 15 05 54 14±4.6 **30.4S**±.22 **72.0W**±.51 **50** **14 3-21**
NEIC X 15 05 54 13.9 30.39S 71.94W 50 **¶97x2573**
GUC X 15 05 54 21.7 30.89S 71.76W 53
NEIC Poor solution.
ISC X 15 06 05 25±1.5 **31.1S**±.12 **71.5W**±.23 **104**±18 4.8b **19 2-75**
NEIC X 15 06 05 19.3 30.63S 71.54W 50 **¶97x2575**
NEIC Poor solution.
GUC X 15 06 25 59.6 30.82S 71.70W 54 4.0D ¶97x2577
ISC X 15 06 43 53±2.7 **30.7S**±.14 **71.9W**±.31 **53** **15 2-27**
GUC X 15 06 43 52.8 30.56S 71.85W 53 4.5D **¶97x2579**
NEIC X 15 06 43 53.1 30.65S 71.91W 50
NEIC Less reliable solution.
GUC X 15 06 54 06.1 30.77S 71.90W 48 ¶97x2581
ISC X 15 07 04 01±1.2 **30.99S**±.082 **71.2W**±.14 **76**±12 **4.2b** **27 2-94**
NEIC X 15 07 03 58.8 30.85S 71.25W 50 4.4b **¶97x2582**
GUC X 15 07 03 59.5 30.99S 71.71W 38 4.8D
EIDC X 15 07 04 05.8 31.0S 71.1W 98 4.4b
ISC X 15 07 26 50±15 **31.2S**±.95 **71.7W**±.60 **53** **14 2-3**
GUC X 15 07 26 44.8 30.78S 71.69W 53 4.3D **¶97x2586**
GUC X 15 08 12 30.2 30.90S 71.62W 54 4.4D ¶97x2589
GUC X 15 09 19 19.6 30.82S 71.75W 51 4.3D ¶97x2595
GUC X 15 09 32 12.7 30.87S 71.64W 50 ¶97x2597
ISC X 15 09 39 37.0±.84 **31.06S**±.057 **71.3W**±.11 **84**±8.3 **4.4b** **40 2-151**
GUC X 15 09 39 28.4 30.46S 71.80W 50 **¶97x2599**
NEIC X 15 09 39 35.5 30.95S 71.30W 70 4.8b
EIDC X 15 09 39 37.1 31.0S 71.4W 69 4.2b
ISC X 15 10 04 23±14 **31.3S**±.90 **71.5W**±.55 **50** **13 2-3**
GUC X 15 10 04 12.6 30.49S 71.44W 50 4.0D **¶97x2603**
ISC X 15 10 17 17±12 **31.5S**±.77 **71.4W**±.46 **50** **13 1-3**
GUC X 15 10 17 07.1 30.68S 71.34W 50 4.2D **¶97x2605**
ISC X 15 10 41 44.0±.98 **31.02S**±.071 **71.9W**±.20 **33** **3.9b** **21 2-151**
GUC X 15 10 41 43.6 30.94S 71.79W 49 4.3D **¶97x2607**
NEIC X 15 10 41 44.4 30.95S 71.52W 50 3.4b
EIDC X 15 10 42 37.7 28.1S 70.1W 433 3.2b
NEIC Less reliable solution.

GUC X 15 11 03 46.8 30.65S 71.54W 50 4.1D ¶97x2611
GUC X 15 11 43 47.4 32.03S 71.11W 30 3.7D ¶97x2619
NEIC X 15 11 43 50.2 32.15S 71.08W 33
NEIC Poor solution.
ISC X 15 12 11 04±8.2 **30.6S**±.20 **72.0W**±.33 **31**±53 4.6b **21 2-75**
NEIC X 15 12 11 06.2 30.66S 71.85W 50 **¶97x2628**
GUC X 15 12 11 10.9 30.95S 71.76W 48 4.5D
NEIC Less reliable solution.
GUC X 15 12 52 53.0 31.06S 71.67W 48 ¶97x2639
GUC X 15 13 12 34.3 30.95S 71.54W 51 ¶97x2642
ISC X 15 14 30 04±1.2 **30.96S**±.082 **71.4W**±.15 **83**±13 **4.0b** **31 2-151**
NEIC X 15 14 30 03.0 30.89S 71.38W 71 4.1b **¶97x2656**
EIDC X 15 14 30 03.9 31.0S 71.3W 68 3.8b
GUC X 15 14 30 04.3 30.98S 71.62W 48 4.5D
ISC X 15 14 44 52±4.5 **30.8S**±.22 **71.8W**±.46 **30** **13 2-6**
NEIC X 15 14 44 52.8 30.82S 71.76W 50 **¶97x2658**
GUC X 15 14 44 59.1 31.32S 71.63W 30 4.3D
NEIC Less reliable solution.
ISC X 15 14 50 35.7±.76 **31.06S**±.052 **71.18W**±.083 **76**±7.5 **4.4b** **59 2-165**
GUC X 15 14 50 28.4 30.56S 71.62W 82 4.8D **¶97x2659**
NEIC X 15 14 50 33.6 31.05S 71.27W 61 4.5b
EIDC X 15 14 50 34.8 31.1S 71.3W 59 4.2b,4.0s
NEIC Felt I=III MM at Coquimbo, Combarbala, Illapel, La Serena, Papudo, Petorca and Salamanca; II MM at Llaillay, Los Andes, Panquehue, San Esteban, San Felipe and Zapallar.
ISC X 15 14 58 22±3.7 **30.7S**±.19 **71.8W**±.35 **49** **16 2-6**
GUC X 15 14 58 24.1 30.80S 71.61W 49 4.4D **¶97x2661**
GUC X 15 15 16 33.9 30.85S 71.00W 136 4.0D ¶97x2665
ISC X 15 15 51 41±9.7 **30.8S**±.56 **71.8W**±.61 **40** **11 2-4**
GUC X 15 15 51 47.1 31.14S 71.40W 40 4.0D **¶97x2670**
ISC X 15 16 07 09±1.4 **31.08S**±.071 **71.6W**±.24 **82** 3.7b **18 2-152**
NEIC X 15 16 07 03.3 30.72S 71.87W 33 **¶97x2672**
GUC X 15 16 07 04.9 30.72S 71.54W 82
EIDC X 15 16 07 10.8 31.1S 71.2W 73 3.7L,3.2s
NEIC Less reliable solution.
GUC X 15 16 56 01.3 30.50S 71.28W 47 4.3D ¶97x2679
ISC X 15 17 26 06±1.4 **31.0S**±.11 **71.5W**±.18 **93**±17 **4.0b** **21 2-151**
NEIC X 15 17 26 02.2 30.76S 71.64W 50 4.5b **¶97x2683**
EIDC X 15 17 26 06.6 30.9S 71.3W 66 3.8b,4.0L
GUC X 15 17 26 07.1 31.08S 71.62W 53
NEIC Less reliable solution.
GUC X 15 18 14 53.3 29.70S 71.88W 59 ¶97x2691
GUC X 15 18 30 37.3 30.77S 71.76W 12 ¶97x2693
GUC X 15 19 15 12.1 30.61S 71.69W 16 4.2D ¶97x2697
ISC X 15 19 40 25±1.2 **30.88S**±.081 **71.7W**±.19 **67**±15 **3.5b** **24 2-151**
GUC X 15 19 40 21.6 30.71S 71.69W 18 4.4D **¶97x2700**
NEIC X 15 19 40 24.2 30.82S 71.60W 55
EIDC X 15 19 40 25.5 30.9S 71.4W 52 3.5b,3.0s
NEIC Less reliable solution.
GUC X 15 20 12 50.3 30.15S 71.77W 40 4.4D ¶97x2704
GUC X 15 20 32 45.4 30.57S 71.67W 13 ¶97x2711
ISC X 15 21 27 51±2.1 **30.6S**±.10 **71.9W**±.30 **33** 4.6b **15 2-75**
GUC X 15 21 27 58.2 31.02S 71.59W 68 4.1D **¶97x2727**
ISC X 15 21 52 39±1.1 **30.85S**±.068 **71.2W**±.12 **72**±9.5 **4.2b** **38 2-151**
NEIC X 15 21 52 36.6 30.90S 71.33W 55 4.3b **¶97x2731**
EIDC X 15 21 52 38.2 30.9S 71.3W 55 4.1b
GUC X 15 21 52 38.9 31.06S 71.60W 13 4.6D
GUC X 16 00 06 14.8 31.27S 71.72W 20 ¶97x2751
GUC X 16 00 12 03.7 30.79S 71.53W 48 4.2D ¶97x2754
GUC X 16 00 39 19.0 30.88S 71.73W 47 3.9D ¶97x2757
ISC X 16 00 45 38.7±.52 **31.07S**±.034 **71.09W**±.059 **78**±5.4 **5.1b** **155 2-177**
BJI X 16 00 45 37.2 31.00S 71.10W 64 **¶97x2759**
NEIC X 16 00 45 37.2 30.99S 71.13W 64 5.4b,4.5s
EIDC X 16 00 45 38.2 31.1S 71.4W 67 4.8b,4.6s
GUC X 16 00 45 39.4 31.25S 71.57W 30 5.1D
MOS X 16 00 45 39.5 31.1S 71.1W 82 5.5b
NEIC Felt I=V MM at Los Vilos; III MM at La Ligua, Los Andes, Papudo, Quillota, San Felipe and Valparaiso; II MM at Santiago.
GUC X 16 01 27 00.6 31.23S 71.72W 28 4.0D ¶97x2762
GUC X 16 01 38 38.8 31.15S 71.65W 41 3.6D ¶97x2763
GUC X 16 01 54 33.0 31.11S 71.64W 51 ¶97x2767
ISC X 16 02 53 34±1.4 **30.93S**±.097 **71.5W**±.17 **75**±15 **4.0b** **25 2-151**
NEIC X 16 02 53 31.0 30.97S 71.32W 48 4.8b **¶97x2775**
GUC X 16 02 53 31.9 30.93S 71.61W 19 4.4D
EIDC X 16 02 53 32.6 31.0S 71.4W 49 4.2b
NEIC Less reliable solution.
GUC X 16 03 22 47.3 31.18S 71.47W 25 3.6D ¶97x2778
GUC X 16 04 04 48.8 31.26S 71.51W 16 ¶97x2781
GUC X 16 04 14 34.8 31.33S 71.72W 24 4.0D ¶97x2782
GUC X 16 04 33 42.8 31.13S 71.72W 23 4.1D ¶97x2784
ISC X 16 05 10 52±1.1 **31.02S**±.077 **71.3W**±.15 **76**±11 **4.1b** **30 2-151**
GUC X 16 05 10 46.1 30.79S 71.73W 16 **¶97x2792**
NEIC X 16 05 10 50.4 31.12S 71.22W 63 4.0b
EIDC X 16 05 10 51.8 31.0S 71.2W 60 3.9b,3.2s
NEIC Less reliable solution.
GUC X 16 06 03 05.5 30.61S 71.57W 15 ¶97x2799
GUC X 16 08 29 17.4 31.08S 71.61W 19 4.2D ¶97x2812
GUC X 16 09 16 15.7 31.09S 71.65W 20 4.2D ¶97x2815
ISC X 16 12 38 50.7±.96 **30.89S**±.059 **71.4W**±.11 **70**±8.8 **4.4b** **45 2-151**
GUC X 16 12 38 39.8 30.30S 71.84W 16 4.0D **¶97x2837**
NEIC X 16 12 38 48.7 30.77S 71.46W 51 4.2b
EIDC X 16 12 38 49.4 31.0S 71.4W 46 4.2b,3.6s
GUC X 16 12 53 53.3 31.08S 71.62W 53 4.6D ¶97x2839
ISC X 16 15 58 24±1.2 **31.16S**±.089 **71.2W**±.19 **111**±16 4.5b **19 2-75**
NEIC X 16 15 58 14.3 30.46S 71.66W 33 **¶97x2854**
GUC X 16 15 58 17.5 30.78S 71.60W 20 4.5D
NEIC Less reliable solution.
GUC X 16 19 30 36.2 31.22S 71.54W 33 4.3D ¶97x2872
ISC X 17 00 07 31±1.1 **31.10S**±.076 **71.2W**±.15 **91**±16 3.6b **24 2-75**
GUC X 17 00 07 23.1 30.66S 71.41W 14 4.5D **¶97x2904**
EIDC X 17 00 07 34.2 30.8S 69.6W 0 3.8b,3.9L
GUC X 17 02 37 01.2 30.69S 71.76W 7 3.9D ¶97x2921
GUC X 17 05 32 57.5 30.92S 71.74W 14 4.2D ¶97x2932
GUC X 17 10 09 45.1 30.94S 71.88W 23 4.2D ¶97x2960
GUC X 17 11 18 17.1 31.11S 71.54W 29 4.1D ¶97x2973
ISC X 17 14 10 46±11 **30.4S**±.64 **71.7W**±.72 **46** **9 3-6**
GUC X 17 14 10 53.3 30.82S 71.44W 46 4.0D **¶97x3001**
ISC X 17 16 35 33.8±.91 **30.93S**±.058 **71.4W**±.11 **77**±8.8 **4.5b** **42 2-150**
NEIC X 17 16 35 31.6 30.94S 71.50W 60 4.7b **¶97x3018**
EIDC X 17 16 35 33.3 31.0S 71.4W 61 4.3b,3.2s
GUC X 17 16 35 33.6 31.00S 71.51W 26 4.5D

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
GUC	**X**	**17 17 01 22.8**	**32.69S**	**71.83W**	**25**	**4.1D**		**¶97x3026**
GUC	**X**	**17 17 15 32.0**	**31.03S**	**71.56W**	**28**	**4.1D**		**¶97x3028**
ISC	**X**	**17 21 43 10**±1.3	**30.83S**±.068	**71.2W**±.11	**74**±12	**4.6b**	**38**	**2-151**
NEIC	X	17 21 43 07.2	30.79S	71.34W	48	4.9b		¶97x3064
EIDC	X	17 21 43 08.2	30.8S	71.3W	47	4.4b,3.9s		
NEIC	Felt I=IV MM at Limari and Punitaqui; III MM at Choapa and La Serena.							
ISC	**X**	**18 21 05 43**±1.9	**28.90S**±.078	**71.5W**±.16	**44**±16	**4.1b**	**23**	**3-150**
NEIC	X	18 21 05 41.6	28.89S	71.53W	33	4.7b		¶97x3236
EIDC	X	18 21 05 43.7	28.9S	71.4W	33	3.9b,4.1L		
NEIC	Less reliable solution.							
ISC	**X**	**19 05 07 39**±9.5	**30.8S**±.59	**71.8W**±.56	**71**		**12**	**2-4**
GUC	X	19 05 07 44.4	31.08S	71.61W	71	3.2D		¶97x3293
GUC	**X**	**19 10 00 02.8**	**31.29S**	**71.57W**	**20**	**3.2D**		**¶97x3327**
GUC	**X**	**19 12 56 13.0**	**31.10S**	**71.64W**	**23**	**3.7D**		**¶97x3350**
ISC	**X**	**19 15 16 53**±3.3	**30.7S**±.19	**71.6W**±.25	**49**±23	**4.1b**	**26**	**2-165**
GUC	X	19 15 16 57.5	31.16S	71.68W	20	4.4D		¶97x3363
NEIC	X	19 15 17 15.1	31.38S	69.08W	144	4.4b		
EIDC	X	19 15 17 23.2	31.3S	69.0W	200	3.6b		
NEIC	Less reliable solution.							
GUC	**X**	**19 22 09 19.2**	**31.16S**	**71.90W**	**9**	**4.2D**		**¶97x3394**
GUC	**X**	**20 00 07 01.6**	**30.96S**	**71.76W**	**52**	**3.7D**		**¶97x3406**
ISC	**X**	**20 03 31 10.4**±.68	**30.81S**±.044	**71.27W**±.071	**66**±7.3	**4.8b**	**91**	**2-165**
GUC	X	20 03 31 08.0	30.75S	71.91W	48	5.0D		¶97x3427
NEIC	X	20 03 31 08.5	30.71S	71.35W	45	5.0b		
EIDC	X	20 03 31 09.0	30.7S	71.3W	43	4.8b,4.4L		
NEIC	Felt I=V MM at Ovalle, IV MM at Paihuano and III MM at Coquimbo, Illapel, La Serena and Monte Patria.							
ISC	**X**	**20 03 46 52**±4.6	**29.3S**±.27	**71.8W**±.35	**55**		**15**	**3-7**
GUC	X	20 03 46 56.2	29.53S	71.74W	55	4.4D		¶97x3428
GUC	**X**	**20 05 24 07.8**	**30.97S**	**71.64W**	**56**	**3.7D**		**¶97x3446**
ISC	**X**	**20 06 32 19**±4.3	**30.6S**±.25	**71.7W**±.29	**45**±30	**4.3b**	**29**	**2-93**
NEIC	X	20 06 32 16.4	30.85S	71.86W	33			¶97x3453
GUC	X	20 06 32 25.2	31.21S	71.65W	20	4.6D		
EIDC	X	20 06 32 27.7	31.7S	69.4W	26	4.1b,3.4L		
NEIC	Less reliable solution.							
GUC	**X**	**20 10 04 16.6**	**30.73S**	**71.36W**	**11**	**4.1D**		**¶97x3475**
GUC	**X**	**20 10 58 34.2**	**31.13S**	**71.76W**	**14**	**4.2D**		**¶97x3488**
ISC	**X**	**20 11 04 20**±1.1	**31.01S**±.072	**71.3W**±.11	**79**±9.6	**4.0b**	**43**	**2-151**
GUC	X	20 11 04 15.9	30.96S	71.62W	11	4.6D		¶97x3489
NEIC	X	20 11 04 16.7	30.77S	71.32W	52	4.6b		
EIDC	X	20 11 04 18.4	30.9S	71.3W	52	3.9b,3.5s		
NEIC	Felt I=V MM at Paihuano, IV MM at Ovalle and III MM at Coquimbo and La Serena.							
ISC	**X**	**20 17 46 15.9**±.98	**30.90S**±.061	**71.3W**±.11	**76**±9.0	**4.0b**	**40**	**2-151**
GUC	X	20 17 46 12.7	30.92S	71.63W	10	4.7D		¶97x3536
NEIC	X	20 17 46 13.7	30.77S	71.45W	57	4.4b		
EIDC	X	20 17 46 15.5	30.9S	71.3W	60	4.0b,3.3s		
NEIC	Felt I=III MM at Coquimbo, La Serena, Ovalle, Paihuano and Punitaqui.							
GUC	**X**	**20 21 26 20.3**	**30.67S**	**71.39W**	**15**	**4.1D**		**¶97x3560**
ISC	**X**	**20 21 37 33**±8.1	**30.9S**±.49	**71.8W**±.45	**31**		**15**	**2-5**
GUC	X	20 21 37 37.6	31.19S	71.55W	31	4.3D		¶97x3561
ISC	**X**	**20 23 34 59**±11	**30.7S**±.66	**71.9W**±.63	**20**		**12**	**2-4**
GUC	X	20 23 34 58.5	30.55S	71.64W	20	4.1D		¶97x3572
ISC	**X**	**21 01 54 40**±15	**31.2S**±.97	**71.6W**±.59	**31**		**12**	**2-4**
GUC	X	21 01 54 38.2	31.08S	71.62W	31	4.2D		¶97x3585
ISC	**X**	**21 04 00 47**±11	**30.4S**±.70	**71.9W**±.59	**58**		**13**	**3-4**
GUC	X	21 04 00 49.9	30.49S	71.58W	58	4.0D		¶97x3597
ISC	**X**	**21 04 19 18**±1.6	**31.09S**±.095	**71.4W**±.18	**75**±11	**4.0b**	**29**	**2-92**
GUC	X	21 04 19 18.6	31.17S	71.54W	48	4.6D		¶97x3602
NEIC	X	21 04 19 21.4	31.13S	71.03W	100			
EIDC	X	21 04 19 30.6	31.8S	69.4W	101	3.8b,3.3s		
NEIC	Less reliable solution.							
GUC	**X**	**21 05 07 32.1**	**30.83S**	**71.14W**	**25**			**¶97x3610**
ISC	**X**	**21 05 23 37**±10	**30.7S**±.61	**71.9W**±.57	**13**		**13**	**2-4**
GUC	X	21 05 23 38.3	30.74S	71.65W	13	4.2D		¶97x3613
ISC	**X**	**21 06 02 02**±2.5	**34.8S**±.23	**71.1W**±.28	**88**		**8**	**0-2**
GUC	X	21 06 02 02.1	34.76S	71.16W	88			¶97x3616
GUC	**X**	**21 06 22 34.6**	**31.23S**	**71.94W**	**19**			**¶97x3618**
ISC	**X**	**21 08 52 06**±9.1	**30.8S**±.56	**71.8W**±.54	**69**		**12**	**2-4**
GUC	X	21 08 52 08.1	30.94S	71.65W	69	3.8D		¶97x3626
GUC	**X**	**21 14 21 00.4**	**31.07S**	**71.76W**	**49**	**4.0D**		**¶97x3661**
ISC	**X**	**21 14 29 17.4**±.94	**31.02S**±.068	**71.24W**±.093	**77**±9.8	**4.3b**	**47**	**2-165**
GUC	X	21 14 29 13.7	30.99S	71.64W	11	4.8D		¶97x3663
NEIC	X	21 14 29 16.5	30.96S	71.27W	68	4.6b		
EIDC	X	21 14 29 17.6	31.1S	71.2W	65	4.1b		
NEIC	Felt I=IV MM at Canela, Combarbala, Illapel, Ovalle and Salamanca; III MM at Hurtado and Monte Patria.							
GUC	**X**	**21 17 49 19.9**	**31.15S**	**71.56W**	**25**	**4.0D**		**¶97x3689**
GUC	**X**	**21 23 07 48.1**	**30.81S**	**71.51W**	**54**	**4.0D**		**¶97x3716**
GUC	**X**	**21 23 47 52.7**	**31.27S**	**71.51W**	**31**	**4.2D**		**¶97x3720**
ISC	**X**	**22 04 32 26.2**±.89	**30.90S**±.056	**71.38W**±.093	**69**±8.9	**4.1b**	**41**	**2-147**
NEIC	X	22 04 32 24.1	30.88S	71.45W	51	4.7b		¶97x3750
EIDC	X	22 04 32 26.0	30.9S	71.4W	52	4.1b		
GUC	X	22 04 32 26.5	30.96S	71.73W	54	4.7D		
NEIC	Felt I=IV MM at Los Vilos, Monte Patria, Punitaqui and Salamanca; III MM at Canela, Combarbala, Hurtado and Ovalle.							
ISC	**X**	**22 05 46 59**±3.3	**33.3S**±.11	**71.2W**±.16	**58**±40		**10**	**0-1**
GUC	X	22 05 46 59.4	33.34S	71.14W	57	2.6D		¶97x3755
ISC	**X**	**22 06 26 50**±1.2	**31.91S**±.089	**71.6W**±.14	**81**±16	**4.1b**	**29**	**1-152**
NEIC	X	22 06 26 47.3	31.84S	71.62W	50	4.6b		¶97x3759
EIDC	X	22 06 26 50.8	32.0S	71.4W	71	3.9b		
GUC	X	22 06 26 51.4	32.04S	71.63W	40	4.5D		
NEIC	Less reliable solution.							
NEIC	Felt I=V MM at Illapel; IV MM at Los Vilos, Monte Patria, Punitaqui and Salamanca; III MM at Canela, Combarbala, Hurtado, Ovalle, Panquehue, Quillota, San Felipe and Santa Maria; II MM at Hijuelas.							
ISC	**X**	**22 07 39 35**±10	**30.7S**±.63	**71.9W**±.61	**49**		**12**	**2-4**
GUC	X	22 07 39 41.1	31.02S	71.78W	49	3.8D		¶97x3768
ISC	**X**	**22 10 23 27**±2.3	**33.91S**±.086	**71.5W**±.20	**42**±27		**11**	**0-1**
GUC	X	22 10 23 27.0	33.87S	71.41W	44	3.6D		¶97x3791
ISC	**X**	**22 11 00 00**±9.9	**30.7S**±.60	**71.8W**±.58	**49**		**12**	**2-4**
GUC	X	22 11 00 04.9	30.96S	71.59W	49	3.9D		¶97x3794
ISC	**X**	**22 13 35 05**±2.7	**31.0S**±.14	**71.4W**±.25	**107**±47		**15**	**2-5**
GUC	X	22 13 35 04.5	30.96S	71.68W	41	4.4D		¶97x3823
ISC	**X**	**22 17 17 08**±9.9	**30.9S**±.58	**71.7W**±.61	**32**		**11**	**2-4**
GUC	X	22 17 17 14.7	31.38S	71.50W	32	3.8D		¶97x3854
ISC	**X**	**22 23 31 22**±8.5	**32.4S**±.52	**71.6W**±.44	**30**		**11**	**1-2**
GUC	X	22 23 31 23.8	32.60S	71.53W	30			¶97x3896
GUC	**X**	**23 04 02 40.7**	**30.85S**	**71.73W**	**16**			**¶97x3922**
GUC	**X**	**23 06 50 26.0**	**31.29S**	**71.64W**	**23**			**¶97x3940**
GUC	**X**	**23 09 40 02.6**	**31.78S**	**71.83W**	**21**			**¶97x3959**
ISC	**X**	**23 10 09 22**±7.3	**31.1S**±.16	**71.7W**±.72	**35**		**5**	**3-27**
GUC	X	23 10 09 24.5	31.18S	71.64W	35			¶97x3966
GUC	**X**	**23 11 27 15.1**	**30.74S**	**71.45W**	**36**			**¶97x3983**
GUC	**X**	**23 21 14 37.4**	**32.78S**	**71.00W**	**63**			**¶97x4067**
GUC	**X**	**23 23 48 43.1**	**31.15S**	**71.28W**	**34**			**¶97x4086**
ISC	**X**	**24 08 49 00**±2.6	**31.0S**±.14	**71.6W**±.25	**28**		**14**	**2-4**
GUC	X	24 08 49 00.7	31.10S	71.77W	28	4.1D		¶97x4132
ISC	**X**	**24 15 25 06.0**±.90	**31.02S**±.054	**71.7W**±.14	**53**	**3.9b**	**22**	**2-152**
GUC	X	24 15 25 01.5	30.66S	71.75W	53	4.5D		¶97x4189
NEIC	X	24 15 25 04.8	31.11S	71.86W	33			
EIDC	X	24 15 25 07.7	31.1S	71.2W	52	3.7b		
NEIC	Less reliable solution.							
GUC	**X**	**24 16 53 05.8**	**31.13S**	**71.58W**	**34**	**4.0D**		**¶97x4197**
ISC	**X**	**24 20 23 45.6**±.95	**30.04S**±.054	**71.56W**±.090	**49**±9.8	**4.5b,3.8s**	**55**	**3-166**
EIDC	X	24 20 23 42.7	30.1S	71.6W	17	4.5b,3.8s		¶97x4218
NEIC	X	24 20 23 43.5	30.07S	71.57W	33	4.7b		
NEIC	Felt I=IV MM at Andacollo, Coquimbo, La Serena, Monte Patria and Ovalle; III MM at Illapel, Salamanca and Vicuna; II MM at Santiago and Vallenar.							
GUC	**X**	**25 00 59 09.7**	**31.26S**	**71.56W**	**31**			**¶97x4247**
GUC	**X**	**25 05 06 00.4**	**31.22S**	**71.62W**	**28**			**¶97x4277**
GUC	**X**	**25 05 23 36.6**	**32.17S**	**71.32W**	**21**			**¶97x4280**
ISC	**X**	**25 05 35 03**±9.2	**34.9S**±.53	**71.1W**±.30	**87**±58		**9**	**0-2**
GUC	X	25 05 35 02.1	34.92S	71.14W	94			¶97x4281
ISC	**X**	**25 06 11 04**±2.8	**34.0S**±.10	**71.3W**±.18	**55**±30		**12**	**0-1**
GUC	X	25 06 11 04.2	34.03S	71.32W	55	3.4D		¶97x4284
GUC	**X**	**25 09 04 16.8**	**31.18S**	**71.82W**	**21**	**3.8D**		**¶97x4304**
ISC	**X**	**25 11 47 13**±10	**30.6S**±.61	**71.9W**±.56	**34**		**14**	**2-4**
GUC	X	25 11 47 22.3	31.31S	71.49W	34	4.2D		¶97x4317
ISC	**X**	**25 20 59 02.3**±.86	**32.12S**±.055	**71.46W**±.094	**55**±8.3	**4.4b**,4.0s	**43**	**1-152**
NEIC	X	25 20 59 01.3	32.10S	71.46W	46	4.5b		¶97x4374
EIDC	X	25 20 59 02.2	32.1S	71.5W	40	4.2b,4.0s		
GUC	X	25 20 59 02.3	32.21S	71.57W	29	4.8D		
NEIC	Less reliable solution.							
NEIC	Felt I=IV MM on Isla Cachagua. Also felt IV MM at Canela, Illapel, Los Vilos and Salamanca; III MM at Papudo, Quintero, Vina del Mar and Zapallar; II MM at Monte Patria and Quilpue.							
EIDC	Multiple, mixed az							
GUC	**X**	**26 11 52 20.1**	**31.02S**	**71.40W**	**24**			**¶97x4455**
GUC	**X**	**26 14 41 45.3**	**31.30S**	**71.74W**	**23**			**¶97x4477**
GUC	**X**	**26 15 47 34.7**	**31.01S**	**71.51W**	**15**			**¶97x4492**
ISC	**X**	**26 19 57 18**±11	**32.3S**±.66	**71.7W**±.53	**9**		**9**	**1-2**
GUC	X	26 19 57 18.1	32.23S	71.64W	9	3.5D		¶97x4519
GUC	**X**	**26 20 03 13.2**	**32.23S**	**71.67W**	**21**	**3.3D**		**¶97x4520**
GUC	**X**	**27 00 50 51.6**	**31.18S**	**71.61W**	**26**	**3.8D**		**¶97x4543**
ISC	**X**	**27 04 38 21**±15	**32.1S**±.99	**71.4W**±.47	**32**		**10**	**1-3**
GUC	X	27 04 38 20.7	32.16S	71.42W	32	3.6D		¶97x4571
GUC	**X**	**27 04 42 18.8**	**30.69S**	**71.59W**	**16**	**3.8D**		**¶97x4573**
ISC	**X**	**27 04 53 08**±1.0	**31.00S**±.065	**71.2W**±.13	**82**±10	**4.1b**	**31**	**2-151**
GUC	X	27 04 53 02.3	30.77S	71.73W	18	4.5D		¶97x4574
NEIC	X	27 04 53 06.6	31.01S	71.30W	67			
EIDC	X	27 04 53 08.5	31.0S	71.2W	66	4.0b		
NEIC	Less reliable solution.							
GUC	**X**	**27 13 53 10.6**	**31.35S**	**71.49W**	**22**	**4.0D**		**¶97x4614**
GUC	**X**	**27 19 31 12.8**	**31.16S**	**71.62W**	**26**	**4.0D**		**¶97x4651**
GUC	**X**	**27 23 09 51.1**	**31.36S**	**71.58W**	**28**	**3.9D**		**¶97x4672**
ISC	**X**	**28 03 18 02**±1.2	**31.12S**±.064	**71.7W**±.17	**28**	**3.7b**,2.9s	**23**	**2-81**
GUC	X	28 03 18 04.0	31.29S	71.70W	28	4.5D		¶97x4695
EIDC	X	28 03 18 04.1	31.5S	69.8W	0	3.8b,4.6L		
EIDC	LO CONF Location							
GUC	**X**	**28 10 12 50.8**	**31.28S**	**71.55W**	**34**	**3.8D**		**¶97x4742**
GUC	**X**	**28 10 49 11.5**	**30.92S**	**71.59W**	**52**	**3.8D**		**¶97x4746**
ISC	**X**	**28 11 11 13**±1.3	**31.08S**±.084	**71.4W**±.17	**87**±15	**3.7b**	**24**	**2-151**
GUC	X	28 11 11 12.6	31.05S	71.64W	46	4.5D		¶97x4751
EIDC	X	28 11 11 15.8	30.8S	69.1W	0	3.9b,3.7L		
NEIC	X	28 11 11 17.5	30.84S	69.32W	33			
NEIC	Poor solution.							
ISC	**X**	**28 13 12 19**±3.9	**32.9S**±.19	**71.6W**±.25	**15**		**12**	**1-2**
GUC	X	28 13 12 19.0	32.89S	71.64W	15	3.3D		¶97x4763
GUC	**X**	**28 14 00 38.7**	**31.22S**	**71.84W**	**24**	**3.8D**		**¶97x4769**
GUC	**X**	**29 00 23 24.6**	**30.74S**	**71.43W**	**53**	**4.0D**		**¶97x4835**
GUC	**X**	**29 04 30 33.3**	**32.09S**	**71.74W**	**35**	**4.0D**		**¶97x4852**
ISC	**X**	**29 08 53 05**±14	**30.3S**±.86	**71.8W**±.80	**46**		**11**	**3-6**
GUC	X	29 08 53 13.3	30.81S	71.65W	46	4.1D		¶97x4885
GUC	**X**	**29 18 22 18.6**	**31.09S**	**71.67W**	**23**	**4.1D**		**¶97x4936**
GUC	**X**	**29 22 26 13.7**	**30.80S**	**71.51W**	**57**	**3.7D**		**¶97x4958**
ISC	**X**	**30 00 46 17**±2.7	**31.0S**±.14	**71.6W**±.30	**15**		**13**	**2-5**
GUC	X	30 00 46 13.8	30.80S	71.51W	15	4.3D		¶97x4968
ISC	**X**	**30 03 52 40**±3.4	**31.0S**±.15	**71.9W**±.36	**25**		**12**	**2-4**
GUC	X	30 03 52 44.0	31.24S	71.69W	25	4.3D		¶97x4986
ISC	**X**	**30 07 05 23.7**±.60	**30.83S**±.039	**71.18W**±.076	**79**±6.2	**4.6b**	**65**	**2-165**
NEIC	X	30 07 05 20.5	30.83S	71.33W	50	4.7b		¶97x5011
GUC	X	30 07 05 23.4	31.01S	71.68W	21	4.8D		
EIDC	X	30 07 05 24.1	30.7S	71.2W	70	4.6b,4.3L		
NEIC	Felt I=V MM at Ovalle, IV MM at Illapel, III MM at La Serena and II MM at Los Vilos.							
GUC	**X**	**30 14 13 50.0**	**30.94S**	**71.39W**	**19**	**4.1D**		**¶97x5051**
GUC	**X**	**30 18 28 25.9**	**31.15S**	**71.61W**	**30**	**4.3D**		**¶97x5077**
ISC	**XI**	**01 11 05 07**±8.4	**31.3S**±.49	**71.6W**±.58	**23**		**8**	**2-3**
GUC	XI	01 11 05 03.7	31.09S	71.32W	23	3.8D		¶97xi0069
NEIC	XI	01 11 05 06.4	31.29S	71.55W	20			
NEIC	Poor solution.							
ISC	**XI**	**01 18 12 35**±2.6	**30.9S**±.14	**71.4W**±.25	**15**		**15**	**2-5**
GUC	XI	01 18 12 29.9	30.52S	70.65W	15	4.3D		¶97xi0117
GUC	**XI**	**01 22 45 53.6**	**31.22S**	**71.57W**	**26**	**3.8D**		**¶97xi0153**
ISC	**XI**	**02 01 27 51**±1.2	**30.94S**±.078	**71.5W**±.12	**78**±12	**4.0b**	**28**	**2-151**
NEIC	XI	02 01 27 49.4	30.81S	71.54W	50			¶97xi0179
GUC	XI	02 01 27 49.5	30.81S	71.80W	49	4.4D		
EIDC	XI	02 01 28 00.6	30.3S	71.2W	121	3.8b		
ISC	**XI**	**02 04 25 02.5**±.64	**30.92S**±.043	**71.18W**±.073	**79**±7.1	**4.5b**	**64**	**2-151**
GUC	XI	02 04 24 57.1	30.51S	71.38W	58	4.2D		¶97xi0195
NEIC	XI	02 04 25 00.4	30.81S	71.28W	55	4.6b		
EIDC	XI	02 04 25 00.8	31.0S	71.3W	53	4.4b,3.8s		
NEIC	Felt I=IV MM at Punitaqui.							
ISC	**XI**	**02 09 06 03**±13	**30.3S**±.80	**72.0W**±.70	**50**		**13**	**3-4**
NEIC	XI	02 09 06 04.7	30.35S	71.91W	50			¶97xi0226
GUC	XI	02 09 06 12.4	30.82S	71.69W	54	4.1D		
NEIC	Poor solution.							
ISC	**XI**	**03 02 13 35.2**±.95	**32.28S**±.052	**71.7W**±.11	**52**±9.3	**4.1b**	**39**	**1-153**
NEIC	XI	03 02 13 33.8	32.25S	71.86W	33	4.3b		¶97xi0375
GUC	XI	03 02 13 34.5	32.25S	71.68W	31	4.6D		

EIDC XI 03 02 13 35.4 32.2S 71.7W 32 3.8b,4.2L
NEIC Felt I=III MM at Concon, Papudo, Santiago, Valparaiso and Vina del Mar; II MM at La Calera, Llaillay and Quillota.
GUC XI 03 02 38 37.5 32.20S 71.70W 23 3.7D ¶97xi0382
GUC XI 03 10 00 35.0 32.21S 71.74W 21 3.5D ¶97xi0451
ISC XI 03 19 17 35.0±.51 30.76S±.030 71.16W±.040 55±5.1 6.2b,5.7s 447 2-175
GUC XI 03 19 17 32.0 30.66S 71.79W 44 5.8D **¶97xi0505**
BJI XI 03 19 17 32.2 30.60S 70.84W 37 6.2s
NEIC XI 03 19 17 33.8 30.74S 71.22W 45 6.2b,5.6s
MOS XI 03 19 17 35.4 30.8S 71.3W 57 6.5b
EIDC XI 03 19 17 36.3 30.9S 71.3W 60 5.5b,5.2L
HRVD XI 03 19 17 39.8±1.0 30.99S 71.69W 51
NEIC Mw6.2(GS), Damage I=VII MM, landslide/avalanche observed.
NEIC Radiated energy from the P−wave first−motion solution: $4.5\pm1.3\times10^{13}$Nm/13
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S15°,δ30°,λ120°. NP2:ϕ_S161°,δ64°,λ74°. Principal axes: T Plg67°,Azm42°; P Plg4°,Azm249°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s39, scale 10^{18}Nm; M_{rr}2.17; $M_{\theta\theta}$0.03; $M_{\phi\phi}$−2.19; $M_{r\theta}$0.14; $M_{r\theta}$−0.68; $M_{\theta\phi}$0.09. Depth 43km; Principal axes: T 2.28,Plg81°,Azm70°; N 0.02,Plg3°, Azm177°; P −2.30,Plg9°,Azm267°. Best double couple: $M_0$2.3×10^{18}Nm; NP1:ϕ_S1°,δ36°, λ95°. NP2:ϕ_S175°,δ54°,λ87°.
NEIC Mw 6.2 (HRV). Me 6.2 (GS). Ms 5.5 (BRK). Additional damage I=VII MM at Punitaqui. Felt VI MM at Hurtado, Illapel, La Serena, Monte Patria, Ovalle and Vicuna; V MM at Copiapo and Coquimbo; IV MM at Petorca; III MM at San Antonio, Santiago and Valparaiso. Power and telephone outages occurred at Coquimbo, La Serena and Ovalle. Landslides occurred along Route 5 North in the epicentral area. Also felt III MM at Mendoza, Argentina.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s48,c108; Mantle waves: s30,c54; Half duration: 13$\hat{s}$0. Moment tensor: Scale 10^{18}Nm; M_{rr}1.80±.02; $M_{\theta\theta}$0.12±.02; $M_{\phi\phi}$−1.93±.03; $M_{r\theta}$0.07±.04; $M_{r\hat{\phi}}$−1.01±.03; $M_{\theta\hat{\phi}}$0.23±.02. Principal Axes: T 2.06,Plg76°,Azm89°; N 0.15,Plg1°,Azm354°; P −2.21,Plg14°,Azm264°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S352°,δ31°,λ88°. NP2:ϕ_S175°,δ59°,λ91°.
ISC XI 03 20 12 53.9±.53 30.83S±.032 71.24W±.050 63±5.5 5.5b 209 2-177
MOS XI 03 20 12 50.4 30.9S 71.4W 33 5.7b **¶97xi0514**
BJI XI 03 20 12 52.0 30.80S 71.30W 45
NEIC XI 03 20 12 52.0 30.77S 71.34W 45 5.6b
EIDC XI 03 20 12 52.5 31.0S 71.3W 43 5.3b,5.1s
GUC XI 03 20 12 53.5 30.88S 71.76W 48 5.2D
NEIC Felt I=IV MM at Choapa and Ovalle; III MM at La Serena and Papudo; II MM at Valparaiso. Also felt III MM at Mendoza, Argentina.
ISC XI 03 21 05 35.2±.91 30.86S±.063 71.38W±.080 69±9.2 4.3b 50 2-151
GUC XI 03 21 05 32.2 30.70S 71.72W 45 4.8D **¶97xi0520**
NEIC XI 03 21 05 33.0 30.75S 71.37W 46 4.5b
EIDC XI 03 21 05 33.8 30.8S 71.4W 47 4.2b
NEIC Felt I=V MM at Vicuna, IV MM at Ovalle, III MM at La Ligua and II MM at Papudo.
GUC XI 04 03 30 26.6 31.01S 71.63W 52 3.7D ¶97xi0566
ISC XI 04 05 18 48±1.3 30.86S±.079 71.5W±.15 70±14 3.9b 23 2-84
NEIC XI 04 05 18 46.0 30.78S 71.65W 50 **¶97xi0580**
GUC XI 04 05 18 47.7 30.92S 71.90W 52 4.6D
EIDC XI 04 05 18 47.7 30.8S 71.3W 49 3.9b,3.5L
ISC XI 04 07 51 25±8.2 32.5S±.48 71.7W±.49 40 10 1-2
NEIC XI 04 07 51 25.1 32.47S 71.72W 40 **¶97xi0595**
GUC XI 04 07 51 27.6 32.63S 71.51W 47 3.8D
NEIC Poor solution.
ISC XI 04 18 59 15.9±.84 30.81S±.053 71.40W±.082 68±8.5 4.6b 54 2-151
NEIC XI 04 18 59 14.1 30.75S 71.47W 52 4.7b **¶97xi0675**
GUC XI 04 18 59 15.5 30.80S 71.58W 47 4.7D
EIDC XI 04 18 59 15.8 30.8S 71.4W 53 4.5b
NEIC Felt I=IV MM at Combarbala, Monte Patria and Ovalle; III MM at Hurtado, Illapel, La Serena, Punitaqui and Salamanca; II MM at Petorca.
ISC XI 04 19 49 23±1.3 30.90S±.079 71.6W±.14 87±15 4.0b 24 2-75
GUC XI 04 19 49 21.7 30.85S 71.69W 38 4.6D **¶97xi0682**
NEIC XI 04 19 49 22.3 30.82S 71.39W 50 4.2b
NEIC Felt I=III MM at Combarbala, Hurtado, Monte Patria, Ovalle and Punitaqui.
ISC XI 05 05 33 32±1.0 30.86S±.064 71.4W±.11 70±11 4.1b 35 2-151
NEIC XI 05 05 33 29.5 30.75S 71.48W 45 4.3b **¶97xi0735**
EIDC XI 05 05 33 30.8 30.8S 71.3W 46 4.0b,3.6s
GUC XI 05 05 33 31.4 30.90S 71.82W 53 4.7D
ISC XI 05 12 30 16±5.2 33.6S±.12 71.8W±.46 23±12 8 0-1
GUC XI 05 12 30 12.9 33.57S 72.04W 37 3.3D **¶97xi0798**
ISC XI 05 23 18 34±12 30.8S±.69 72.0W±.75 60 10 2-4
NEIC XI 05 23 18 35.5 30.84S 71.88W 60 **¶97xi0880**
GUC XI 05 23 18 40.1 31.14S 71.77W 55 3.5D
NEIC Poor solution.
ISC XI 06 00 38 30±11 32.7S±.35 71.8W±.48 13±50 10 1-2
NEIC XI 06 00 38 30.2 32.71S 71.79W 15 **¶97xi0890**
GUC XI 06 00 38 30.9 32.68S 71.75W 15 3.6D
NEIC Single network solution.
ISC XI 06 00 47 55±10 32.6S±.58 71.9W±.52 15 9 1-2
NEIC XI 06 00 47 56.9 32.65S 71.82W 15 **¶97xi0891**
GUC XI 06 00 47 58.1 32.65S 71.76W 17 3.3D
NEIC Poor solution.
ISC XI 06 03 18 51±1.6 29.5S±.10 71.6W±.15 70±20 3.7b 25 3-150
NEIC XI 06 03 18 46.5 29.23S 71.75W 33 **¶97xi0914**
EIDC XI 06 03 18 59.5 29.0S 71.4W 113 3.5b
NEIC Less reliable solution.
ISC XI 06 06 12 45±5.6 34.7S±.42 71.2W±.26 66 9 1-2
GUC XI 06 06 12 44.0 34.73S 71.19W 66 3.3D **¶97xi0933**
NEIC XI 06 06 12 44.7 34.68S 71.16W 65
NEIC Poor solution.
ISC XI 06 12 54 42±11 30.5S±.69 72.0W±.62 56 12 2-4
NEIC XI 06 12 54 46.0 30.71S 71.71W 70 **¶97xi0980**
GUC XI 06 12 54 47.7 30.79S 71.59W 56 3.9D
NEIC Poor solution.
ISC XI 06 19 02 15±2.8 33.6S±.11 71.7W±.28 43 10 0-1
GUC XI 06 19 02 15.1 33.59S 71.65W 43 3.5D **¶97xi1013**
NEIC XI 06 19 02 15.5 33.60S 71.67W 40
NEIC Single network solution.
ISC XI 07 02 20 37±9.9 32.2S±.65 71.7W±.35 17 10 1-2
GUC XI 07 02 20 37.5 32.19S 71.64W 17 3.6D **¶97xi1062**
GUC XI 07 09 56 32.8 31.20S 71.62W 52 3.7D ¶97xi1111
GUC XI 08 03 09 11.3 31.00S 71.82W 53 3.8D ¶97xi1203
ISC XI 08 11 12 22±1.2 31.76S±.062 71.9W±.14 57±10 4.3b 36 1-152
EIDC XI 08 11 12 16.7 31.6S 71.8W 0 4.9b,4.4L **¶97xi1269**
NEIC XI 08 11 12 20.7 31.68S 71.96W 40
GUC XI 08 11 12 21.4 31.66S 71.81W 46 4.5D
ISC XI 09 03 57 23±7.0 32.6S±.39 71.6W±.36 21±15 10 1-2
NEIC XI 09 03 57 23.7 32.65S 71.53W 20 **¶97xi1391**
GUC XI 09 03 57 25.4 32.72S 71.48W 22 3.7D
NEIC Single network solution.
GUC XI 09 06 51 35.7 30.89S 71.69W 50 4.0D ¶97xi1413
NEIC XI 09 06 51 30.1 30.56S 71.89W 50
NEIC Poor solution.
ISC XI 09 20 23 41±1.6 30.01S±.034 71.84W±.058 27±12 5.1b,4.5s 170 3-176
EIDC XI 09 20 23 37.1 30.1S 71.9W 0 5.1b,4.6L **¶97xi1505**
NEIC XI 09 20 23 40.5 30.02S 71.87W 28 5.2b,4.5s
BJI XI 09 20 23 41.0 29.85S 71.38W 28
HRVD XI 09 20 23 41.6±.1 30.06S±.01 72.18W±.01 32±1.1
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s7,c8; Half duration: 1$\hat{s}$1. Moment tensor: Scale 10^{16}Nm; M_{rr}4.70±.62; $M_{\theta\theta}$1.83±.91; $M_{\phi\phi}$−6.52±.82; $M_{r\theta}$−4.82±2.16; $M_{r\hat{\theta}}$−6.35±1.84; $M_{\theta\hat{\theta}}$1.12±.81. Principal Axes: T 10.3,Plg53°,Azm146°; N −0.9,Plg24°,Azm19°; P −9.5,Plg26°,Azm276°. Best double couple: $M_0$9.9×10^{16}Nm, NP1: ϕ_S325°,δ29°,λ32°. NP2:ϕ_S206°,δ75°,λ115°.
ISC XI 10 02 29 16±5.5 33.1S±.19 71.5W±.32 62±47 11 0-2
GUC XI 10 02 29 16.8 33.13S 71.47W 54 3.5D **¶97xi1546**
NEIC XI 10 02 29 17.2 33.14S 71.44W 50
NEIC Single network solution.
ISC XI 10 03 04 16±11 30.7S±.64 71.9W±.62 60 11 2-4
NEIC XI 10 03 04 18.0 30.75S 71.76W 60 **¶97xi1548**
GUC XI 10 03 04 22.3 31.01S 71.58W 57 3.8D
NEIC Poor solution.
GUC XI 10 03 47 19.3 30.82S 71.72W 48 4.1D ¶97xi1553
NEIC XI 10 03 47 14.1 30.51S 71.92W 50
NEIC Poor solution.
ISC XI 10 09 58 45±1.3 31.08S±.076 71.6W±.17 28 14 2-15
NEIC XI 10 09 58 45.1 31.07S 71.54W 33 **¶97xi1594**
GUC XI 10 09 58 45.9 31.20S 71.61W 28 4.4D
ISC XI 10 14 13 07.3±.77 31.07S±.055 71.17W±.083 80±8.1 4.7b 58 2-154
GUC XI 10 14 13 01.6 30.72S 71.76W 60 4.8D **¶97xi1620**
NEIC XI 10 14 13 05.6 30.97S 71.26W 63 4.9b
EIDC XI 10 14 13 06.3 31.1S 71.3W 61 4.8b
NEIC Felt I=V MM at Punitaqui; IV MM at Canela, Combarbala, Hurtado, Illapel, Monte Patria, Ovalle and Salamanca; II MM at La Serena.
ISC XI 11 07 29 00±9.5 32.3S±.59 71.7W±.50 47 10 1-2
NEIC XI 11 07 28 59.5 32.33S 71.65W 50 **¶97xi1755**
GUC XI 11 07 29 00.7 32.41S 71.56W 47 3.3D
NEIC Poor solution.
ISC XI 11 11 57 42±4.1 29.7S±.23 71.9W±.34 50 14 3-6
NEIC XI 11 11 57 43.1 29.80S 71.78W 50 **¶97xi1780**
GUC XI 11 11 57 44.8 29.90S 71.99W 50 4.1D
NEIC Less reliable solution.
GUC XI 11 23 01 07.1 31.26S 71.65W 52 4.0D ¶97xi1890
GUC XI 12 02 12 10.0 31.01S 71.72W 51 4.0D ¶97xi1921
NEIC XI 12 02 12 02.4 30.53S 71.94W 50
NEIC Poor solution.
GUC XI 12 14 27 06.9 30.93S 71.57W 53 4.0D ¶97xi1995
ISC XI 13 05 35 53±9.9 30.8S±.58 72.0W±.57 23 11 2-3
NEIC XI 13 05 35 56.4 30.93S 71.74W 33 **¶97xi2083**
GUC XI 13 05 35 57.3 31.08S 71.68W 23 4.1D
NEIC Poor solution.
ISC XI 13 13 26 27±1.7 30.2S±.11 71.7W±.35 70±23 3.2b 14 3-151
EIDC XI 13 13 26 18.0 30.5S 71.6W 0 3.3b,4.2L **¶97xi2141**
NEIC XI 13 13 26 25.2 30.10S 71.69W 50
GUC XI 13 13 26 27.5 30.23S 71.82W 53 4.1D
NEIC Less reliable solution.
ISC XI 13 16 35 29±10 28.3S±.54 71.2W±.78 200 6 3-7
¶97xi2169
ISC XI 14 02 02 23±7.5 31.4S±.41 71.9W±.53 10 9 2-3
NEIC XI 14 02 02 22.6 31.44S 71.87W 10 **¶97xi2223**
GUC XI 14 02 02 25.0 31.56S 71.89W 24 4.0D
NEIC Poor solution.
ISC XI 14 03 32 07±8.2 32.7S±.41 71.4W±.36 65±63 8 0-1
NEIC XI 14 03 32 07.9 32.72S 71.38W 50 **¶97xi2231**
GUC XI 14 03 32 08.2 32.76S 71.32W 53 3.4D
NEIC Single network solution.
GUC XI 15 15 22 07.2 31.04S 71.79W 56 3.5D ¶97xi2498
ISC XI 16 08 34 14±3.2 30.8S±.15 72.0W±.30 53 13 2-4
NEIC XI 16 08 34 14.4 30.83S 71.86W 33 **¶97xi2619**
GUC XI 16 08 34 15.9 30.91S 71.85W 53 4.2D
NEIC Poor solution.
ISC XI 16 14 05 16±5.2 34.9S±.43 71.1W±.28 99 10 1-2
NEIC XI 16 14 05 16.4 34.92S 71.08W 100 **¶97xi2656**
GUC XI 16 14 05 17.1 34.87S 71.08W 99 3.3D
NEIC Poor solution.
GUC XI 16 21 42 19.8 31.00S 71.61W 49 3.9D ¶97xi2698
GUC XI 17 02 06 53.0 32.51S 71.76W 31 3.9D ¶97xi2728
ISC XI 17 12 29 13±2.9 31.2S±.14 71.3W±.26 124±41 14 2-6
NEIC XI 17 12 29 13.6 31.10S 71.51W 50 **¶97xi2796**
GUC XI 17 12 29 14.5 31.15S 71.54W 53 4.3D
NEIC Less reliable solution.
ISC XI 20 03 33 42.4±.65 30.72S±.049 71.8W±.10 33 4.0b 28 2-151
GUC XI 20 03 33 34.8 30.26S 71.60W 17 4.6D **¶97xi3380**
NEIC XI 20 03 33 42.0 30.71S 71.76W 33
EIDC XI 20 03 33 45.2 30.7S 71.6W 44 3.9b,4.0L
ISC XI 20 12 59 20±10 30.8S±.60 71.8W±.59 25 9 2-3
NEIC XI 20 12 59 21.7 30.86S 71.71W 33 **¶97xi3468**
GUC XI 20 12 59 25.0 31.16S 71.63W 25 3.8D
NEIC Poor solution.
ISC XI 21 06 35 16±3.6 31.1S±.16 71.9W±.37 2 10 2-4
GUC XI 21 06 35 12.8 30.71S 71.45W 2 4.2D **¶97xi3605**
NEIC XI 21 06 35 16.8 31.07S 71.88W 5
NEIC Less reliable solution.
ISC XI 21 13 09 24±7.3 32.6S±.34 72.0W±.49 20 9 1-2
NEIC XI 21 13 09 24.1 32.59S 71.97W 20 **¶97xi3658**
GUC XI 21 13 09 26.9 32.68S 71.81W 17
NEIC Poor solution.
ISC XI 22 00 23 52±2.5 31.9S±.11 71.8W±.26 38 11 1-4
GUC XI 22 00 23 51.4 31.90S 71.75W 38 4.0D **¶97xi3761**
NEIC XI 22 00 23 51.5 31.86S 71.74W 33
NEIC Less reliable solution.
ISC XI 22 10 18 42±1.1 30.84S±.067 71.4W±.13 68±12 4.0b 25 2-92
EIDC XI 22 10 18 35.0 30.9S 71.4W 0 4.1b,3.7L **¶97xi3852**
NEIC XI 22 10 18 36.3 30.65S 71.72W 10
GUC XI 22 10 18 38.5 30.76S 71.70W 15 4.5D
ISC XI 22 13 41 09.5±.77 28.89S±.039 71.34W±.069 43±7.9 5.0b,4.4s 122 4-175
NEIC XI 22 13 41 08.3 28.85S 71.38W 33 5.2b,4.4s **¶97xi3885**
BJI XI 22 13 41 09.1 28.98S 71.95W 25
EIDC XI 22 13 41 09.4 28.8S 71.2W 29 4.8b,4.4s
NEIC Felt I=III MM at Copiapo and Tierra Amarilla.

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XI**	**22 22 49 40**±1.2	**28.88S**±.068	**71.4W**±.11	**41**±13	**4.2b**	**37**	**3-149**
NEIC	XI	22 22 49 38.2	28.84S	71.42W	25	4.4b		¶97xi3978
EIDC	XI	22 22 49 39.4	28.9S	71.3W	23	4.1b,3.9L		
ISC	**XI**	**23 02 50 28**±5.9	**34.9S**±.51	**71.1W**±.28	**97**		**8**	**1-2**
NEIC	XI	23 02 50 27.2	34.89S	71.08W	100			¶97xi4010
GUC	XI	23 02 50 28.3	34.83S	71.05W	97	2.6D		
NEIC	Poor solution.							
ISC	**XI**	**23 09 42 07**±12	**30.4S**±.75	**71.9W**±.69	**10**		**11**	**3-4**
NEIC	XI	23 09 42 08.5	30.51S	71.86W	10			¶97xi4088
GUC	XI	23 09 42 13.4	30.78S	71.65W	19	4.0D		
NEIC	Poor solution.							
ISC	**XI**	**25 03 00 02**±2.0	**30.8S**±.11	**71.5W**±.22	**73**±22	4.3b	**17**	**2-75**
GUC	XI	25 02 59 58.0	30.68S	71.72W	15	4.4D		¶97xi4435
NEIC	XI	25 02 59 59.3	30.64S	71.65W	33			
NEIC	Less reliable solution.							
GUC	**XI**	**25 04 04 05.0**	**30.88S**	**71.89W**	**14**	**4.1D**		**¶97xi4441**
ISC	**XI**	**25 12 13 42.6**±.88	**30.88S**±.060	**71.3W**±.10	**80**±10	**4.1b**	**35**	**2-84**
NEIC	XI	25 12 13 38.2	30.57S	71.41W	33	4.5b		¶97xi4506
GUC	XI	25 12 13 41.4	31.08S	71.86W	11	4.8D		
EIDC	XI	25 12 13 45.1	30.6S	71.2W	77	4.0b,4.0L		
NEIC	Felt I=V MM at Combarbala, Hurtado, Monte Patria, Ovalle and Punitaqui; IV MM at Andacollo, Canela, Coquimbo, Illapel, La Serena, Los Vilos, Salamanca and Vicuna; III MM at La Higuera and Paihuano; II MM at Papudo.							
ISC	**XI**	**25 21 47 43**±9.9	**30.8S**±.58	**71.9W**±.60	**22**		**10**	**2-4**
NEIC	XI	25 21 47 45.3	30.90S	71.85W	33			¶97xi4585
GUC	XI	25 21 47 48.5	31.23S	71.79W	22	4.3D		
NEIC	Poor solution.							
ISC	**XI**	**26 03 24 39**±11	**32.3S**±.67	**71.7W**±.53	**35**		**10**	**1-2**
NEIC	XI	26 03 24 40.2	32.37S	71.60W	33			¶97xi4618
GUC	XI	26 03 24 42.4	32.54S	71.47W	35	3.8D		
NEIC	Poor solution.							
GUC	**XI**	**26 08 37 27.2**	**32.57S**	**71.65W**	**23**	**3.7D**		**¶97xi4655**
ISC	**XI**	**26 16 21 33**±8.1	**32.6S**±.43	**71.6W**±.41	**18**±17		**10**	**1-2**
NEIC	XI	26 16 21 33.6	32.59S	71.60W	20			¶97xi4718
GUC	XI	26 16 21 36.0	32.70S	71.49W	19			
NEIC	Poor solution.							
ISC	**XI**	**28 06 14 20**±8.3	**32.6S**±.42	**72.0W**±.48	**10**		**10**	**1-2**
NEIC	XI	28 06 14 20.1	32.56S	71.99W	10			¶97xi5026
GUC	XI	28 06 14 21.9	32.61S	71.96W	27			
NEIC	Poor solution.							
ISC	**XI**	**28 15 30 11**±9.8	**34.8S**±.67	**71.2W**±.38	**41**		**9**	**1-2**
GUC	XI	28 15 30 03.4	35.28S	71.46W	41			¶97xi5110
NEIC	XI	28 15 30 03.5	35.24S	71.27W	100			
NEIC	Poor solution.							
ISC	**XI**	**29 01 41 24.0**±.64	**31.17S**±.047	**71.21W**±.077	**86**±7.4	**4.5b**	**62**	**2-159**
GUC	XI	29 01 41 11.4	30.52S	71.78W	7	4.8D		¶97xi5170
BJI	XI	29 01 41 22.0	31.10S	71.40W	61			
NEIC	XI	29 01 41 22.0	31.05S	71.36W	61	4.6b		
EIDC	XI	29 01 41 23.3	31.1S	71.2W	64	4.4b,3.9s		
NEIC	Felt I=V MM at Punitaqui; IV MM at Ovalle; III MM at Coquimbo, La Serena and Vicuna; II MM at Illapel, La Higuera and Salamanca.							
ISC	**XI**	**29 11 48 46**±7.6	**34.2S**±.30	**71.9W**±.59	**26**		**10**	**0-2**
NEIC	XI	29 11 48 42.6	34.33S	72.05W	10			¶97xi5255
GUC	XI	29 11 48 45.3	34.28S	71.94W	26			
NEIC	Poor solution.							
ISC	**XI**	**29 18 07 24**±7.3	**32.6S**±.40	**71.6W**±.38	**19**±16		**10**	**1-2**
NEIC	XI	29 18 07 24.2	32.60S	71.57W	20			¶97xi5302
GUC	XI	29 18 07 26.3	32.70S	71.49W	17	3.4D		
NEIC	Poor solution.							
ISC	**XI**	**30 04 38 17**±1.0	**30.89S**±.063	**71.3W**±.11	**69**±9.7	**4.1b**	**33**	**2-124**
GUC	XI	30 04 38 09.4	30.41S	71.89W	48	4.7D		¶97xi5362
NEIC	XI	30 04 38 14.6	30.76S	71.43W	48	4.3b		
EIDC	XI	30 04 38 16.2	30.9S	71.3W	50	4.2b,3.7s		
ISC	**XI**	**30 06 19 17**±2.7	**31.0S**±.14	**71.7W**±.26	**16**		**13**	**2-4**
GUC	XI	30 06 19 15.3	30.90S	71.75W	16	4.3D		¶97xi5372
NEIC	XI	30 06 19 15.8	30.95S	71.65W	10			
NEIC	Less reliable solution.							
ISC	**XI**	**30 14 17 34**±7.3	**34.5S**±.44	**71.1W**±.21	**54**±63		**10**	**1-2**
GUC	XI	30 14 17 30.7	34.75S	71.19W	63	2.9D		¶97xi5420
NEIC	XI	30 14 17 32.7	34.62S	71.13W	60			
NEIC	Single network solution.							
ISC	**XII**	**01 05 34 46**±5.6	**31.6S**±.31	**71.7W**±.40	**31**		**11**	**1-3**
GUC	XII	01 05 34 45.6	31.67S	71.60W	31	4.2D		¶97xii0039
ISC	**XII**	**02 05 12 16**±8.9	**30.9S**±.53	**71.8W**±.52	**23**		**12**	**2-4**
GUC	XII	02 05 12 19.4	31.12S	71.58W	23			¶97xii0186
GUC	**XII**	**02 07 43 54.5**	**31.00S**	**71.63W**	**22**			**¶97xii0208**
GUC	**XII**	**02 21 09 04.5**	**31.16S**	**71.82W**	**17**			**¶97xii0310**
GUC	**XII**	**03 00 57 00.0**	**31.04S**	**71.97W**	**18**	**3.9b**		**¶97xii0343**
ISC	**XII**	**03 14 20 12**±17	**34.4S**±.34	**72.4W**±.91	**2**±57		**11**	**1-2**
GUC	XII	03 14 20 11.2	34.53S	72.57W	26	3.8D		¶97xii0438
NEIC	XII	03 14 20 13.3	34.41S	72.35W	10			
NEIC	Poor solution.							
ISC	**XII**	**04 01 20 12**±3.7	**30.9S**±.17	**71.8W**±.43	**20**		**13**	**2-4**
NEIC	XII	04 01 20 12.0	30.87S	71.77W	20			¶97xii0528
GUC	XII	04 01 20 14.0	31.00S	71.68W	23	4.0D		
NEIC	Less reliable solution.							
GUC	**XII**	**04 10 25 30.0**	**31.14S**	**71.81W**	**15**	**4.2D**		**¶97xii0599**
ISC	**XII**	**04 13 05 30**±14	**32.3S**±.71	**71.9W**±.67	**15**±23		**13**	**1-2**
GUC	XII	04 13 05 36.0	32.62S	71.58W	29	4.1D		¶97xii0619
ISC	**XII**	**04 18 59 44**±2.8	**32.4S**±.15	**71.4W**±.22	**31**		**14**	**1-3**
GUC	XII	04 18 59 42.8	32.42S	71.48W	31	4.2D		¶97xii0670
ISC	**XII**	**04 20 59 27**±1.2	**31.23S**±.079	**71.3W**±.13	**93**±13	**4.1b**	**29**	**2-152**
GUC	XII	04 20 59 25.3	31.25S	71.62W	25	4.3D		¶97xii0692
NEIC	XII	04 20 59 26.3	31.19S	71.33W	85	4.5b		
EIDC	XII	04 20 59 27.7±4.60	31.3S	71.2W	83±38.6	4.0b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi-major=57.1km semi-minor=30.7km azimuth=122							
GUC	**XII**	**05 20 25 37.6**	**32.45S**	**71.57W**	**44**	**3.3D**		**¶97xii1077**
NEIC	XII	05 20 25 34.5	32.25S	71.78W	40			
NEIC	Poor solution.							
ISC	**XII**	**05 23 47 42**±2.8	**31.0S**±.14	**71.7W**±.27	**20**		**15**	**2-4**
NEIC	XII	05 23 47 41.6	30.96S	71.73W	20			¶97xii1155
GUC	XII	05 23 47 45.0	31.21S	71.67W	23	4.0D		
NEIC	Less reliable solution.							
GUC	**XII**	**06 00 18 22.8**	**31.10S**	**71.74W**	**17**	**3.9D**		**¶97xii1170**
ISC	**XII**	**06 01 21 59.2**±.94	**30.80S**±.061	**71.3W**±.10	**73**±9.1	**4.1b**	**39**	**2-151**
NEIC	XII	06 01 21 55.1	30.57S	71.49W	33	4.9b		¶97xii1191
GUC	XII	06 01 21 59.2	31.00S	71.64W	18	4.6D		
EIDC	XII	06 01 22 03.9±4.24	30.7S	71.1W	94±37.3	4.0b		
EIDC	Error ellipse is semi-major=29.1km semi-minor=20.8km azimuth=65							
ISC	**XII**	**06 04 42 10**±1.1	**29.85S**±.079	**71.2W**±.14	**129**±17	**3.5b**	**29**	**3-150**
NEIC	XII	06 04 42 07.6	29.66S	71.29W	33			¶97xii1250
GUC	XII	06 04 42 08.4	29.80S	72.17W	59	4.2D		
EIDC	XII	06 04 42 08.4±1.30	30.0S	69.3W	20±4.9	3.5b,3.7L		
EIDC	Error ellipse is semi-major=34.0km semi-minor=26.9km azimuth=10							
GUC	**XII**	**06 05 52 17.5**	**31.64S**	**71.80W**	**1**	**4.0D**		**¶97xii1265**
ISC	**XII**	**06 11 21 52**±6.9	**32.6S**±.35	**71.4W**±.39	**22**±21		**11**	**0-2**
GUC	XII	06 11 21 51.6	32.63S	71.48W	22	3.3D		¶97xii1382
ISC	**XII**	**07 09 43 04**±2.9	**33.38S**±.098	**71.7W**±.27	**25**±8.6		**13**	**0-1**
NEIC	XII	07 09 43 03.8	33.36S	71.72W	30			¶97xii1670
GUC	XII	07 09 43 04.0	33.37S	71.69W	29			
NEIC	Single network solution.							
GUC	**XII**	**07 11 18 51.7**	**31.74S**	**71.63W**	**38**			**¶97xii1684**
ISC	**XII**	**07 14 09 08.4**±.68	**28.48S**±.079	**71.5W**±.12	**33**	**4.0b**	**22**	**4-149**
NEIC	XII	07 14 09 07.9	28.42S	71.47W	33	4.0b		¶97xii1714
EIDC	XII	07 14 09 14.6±1.46	28.1S	72.4W	44±10.7	3.9b,3.7L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi-major=40.7km semi-minor=25.4km azimuth=37							
ISC	**XII**	**07 20 30 23**±5.7	**32.6S**±.31	**71.7W**±.31	**10**		**12**	**1-2**
NEIC	XII	07 20 30 22.5	32.60S	71.68W	10			¶97xii1785
GUC	XII	07 20 30 25.3	32.69S	71.56W	32			
NEIC	Single network solution.							
GUC	**XII**	**08 18 38 43.7**	**31.11S**	**71.72W**	**10**	**4.1D**		**¶97xii1987**
ISC	**XII**	**09 15 57 53**±8.4	**30.5S**±.51	**71.7W**±.54	**82**		**14**	**2-6**
NEIC	XII	09 15 57 51.7	30.47S	71.76W	80			¶97xii2198
GUC	XII	09 15 57 52.7	30.42S	71.11W	82	4.3D		
NEIC	Poor solution.							
GUC	**XII**	**09 21 04 00.7**	**30.86S**	**71.73W**	**6**	**4.6D**		**¶97xii2238**
NEIC	XII	09 21 04 07.0	31.26S	71.67W	10			
NEIC	Poor solution.							
ISC	**XII**	**10 02 08 29**±2.9	**30.9S**±.14	**71.7W**±.28	**25**		**13**	**2-4**
NEIC	XII	10 02 08 28.9	30.90S	71.69W	25			¶97xii2277
GUC	XII	10 02 08 31.7	31.15S	71.69W	24	4.2D		
NEIC	Less reliable solution.							
ISC	**XII**	**10 15 45 49**±1.6	**31.1S**±.11	**71.3W**±.19	**117**±35		**20**	**2-8**
NEIC	XII	10 15 45 48.3	30.99S	71.53W	40			¶97xii2380
GUC	XII	10 15 45 49.3	31.18S	71.67W	27	4.5D		
ISC	**XII**	**10 19 57 51**±11	**30.6S**±.68	**71.9W**±.64	**29**		**13**	**2-4**
NEIC	XII	10 19 57 51.7	30.64S	71.87W	33			¶97xii2418
GUC	XII	10 19 57 59.1	31.17S	71.50W	29	4.3D		
NEIC	Poor solution.							
GUC	**XII**	**10 23 47 03.8**	**30.11S**	**71.93W**	**55**	**4.0D**		**¶97xii2446**
GUC	**XII**	**11 01 41 24.1**	**30.77S**	**71.57W**	**52**	**4.0D**		**¶97xii2466**
ISC	**XII**	**11 14 15 08**±12	**32.0S**±.79	**71.0W**±.27	**89**±47		**14**	**1-3**
NEIC	XII	11 14 15 11.3	32.24S	70.99W	75			¶97xii2580
GUC	XII	11 14 15 11.8	32.27S	70.95W	76	3.9D		
NEIC	Poor solution.							
ISC	**XII**	**11 16 01 34**±3.5	**33.1S**±.15	**71.6W**±.26	**15**		**7**	**0-2**
GUC	XII	11 16 01 33.0	33.09S	71.68W	17	3.1D		¶97xii2598
NEIC	XII	11 16 01 33.6	33.10S	71.56W	15			
NEIC	Single network solution.							
ISC	**XII**	**11 17 44 12**±6.7	**34.3S**±.20	**72.2W**±.58	**40**		**13**	**1-2**
NEIC	XII	11 17 44 11.3	34.27S	72.23W	40			¶97xii2611
GUC	XII	11 17 44 12.8	34.26S	72.03W	42	3.5D		
NEIC	Poor solution.							
ISC	**XII**	**12 18 47 31**±1.1	**31.11S**±.073	**71.3W**±.14	**95**±12	**3.5b**	**26**	**2-151**
GUC	XII	12 18 47 28.4	31.03S	71.61W	21	4.6D		¶97xii2802
NEIC	XII	12 18 47 28.8	30.95S	71.54W	62			
EIDC	XII	12 18 47 29.7±.72	31.1S	71.3W	63±6.4	3.5b		
EIDC	Error ellipse is semi-major=29.3km semi-minor=27.2km azimuth=94							
ISC	**XII**	**14 04 10 35**±8.6	**30.9S**±.52	**71.7W**±.52	**48**		**13**	**2-4**
GUC	XII	14 04 10 39.0	31.11S	71.57W	48	4.2D		¶97xii3082
ISC	**XII**	**14 16 52 51**±5.1	**32.7S**±.28	**71.6W**±.35	**40**		**10**	**1-2**
NEIC	XII	14 16 52 51.0	32.74S	71.60W	40			¶97xii3172
GUC	XII	14 16 52 52.3	32.83S	71.48W	39	3.4D		
NEIC	Single network solution.							
ISC	**XII**	**15 07 56 51**±11	**32.3S**±.71	**71.6W**±.51	**36**		**10**	**1-2**
NEIC	XII	15 07 56 52.0	32.35S	71.53W	33			¶97xii3256
GUC	XII	15 07 56 52.9	32.45S	71.48W	36	3.6D		
NEIC	Poor solution.							
ISC	**XII**	**15 13 07 39.0**±.69	**34.30S**±.055	**71.64W**±.078	**63**±5.5	**5.0b**	**102**	**0-179**
BJI	XII	15 13 07 36.5	34.40S	71.90W	44			¶97xii3291
NEIC	XII	15 13 07 36.5	34.39S	71.86W	44	4.9b,4.2s		
EIDC	XII	15 13 07 37.8±.43	34.3S	71.7W	43±3.5	4.6b,5.1L		
GUC	XII	15 13 07 38.7	34.29S	71.76W	46	4.8D		
NEIC	Felt I=V MM at Licanten, Pichilemu and Rancagua; IV MM at Curepto, Curico, Marchihue and San Fernando; III MM at Convento Viejo, Chimbarongo, San Antonio, Santiago, Talca and Valparaiso; II MM at Linares and Papudo; I MM at Parral and San Javier.							
EIDC	Error ellipse is semi-major=21.9km semi-minor=15.4km azimuth=83							
ISC	**XII**	**15 18 20 43**±8.3	**32.4S**±.47	**71.8W**±.40	**10**		**9**	**1-2**
GUC	XII	15 18 20 41.7	32.23S	71.93W	22	4.2D		¶97xii3319
NEIC	XII	15 18 20 42.8	32.35S	71.82W	10			
NEIC	Poor solution.							
ISC	**XII**	**16 13 20 08**±5.5	**33.0S**±.19	**71.7W**±.33	**3**±15		**11**	**1-2**
NEIC	XII	16 13 20 09.1	33.00S	71.70W	10			¶97xii3454
NEIC	Single network solution.							
ISC	**XII**	**16 14 31 35**±9.4	**32.9S**±.38	**71.9W**±.74	**33**		**9**	**1-2**
								¶97xii3464
ISC	**XII**	**17 00 29 40**±11	**34.0S**±.18	**72.5W**±.80	**15**±28		**12**	**1-2**
NEIC	XII	17 00 29 41.0	34.01S	72.39W	20			¶97xii3529
GUC	XII	17 00 29 41.7	33.99S	72.36W	15	4.3D		
NEIC	Poor solution.							
ISC	**XII**	**17 12 44 15**±2.2	**33.39S**±.078	**71.3W**±.14	**48**±30		**14**	**0-1**
GUC	XII	17 12 44 14.2	33.38S	71.27W	50	3.9D		¶97xii3605
NEIC	XII	17 12 44 14.3	33.38S	71.31W	50			
NEIC	Single network solution.							
ISC	**XII**	**17 14 33 17**±4.2	**32.7S**±.24	**71.5W**±.23	**20**		**14**	**1-2**
NEIC	XII	17 14 33 16.8	32.68S	71.50W	20			¶97xii3616
GUC	XII	17 14 33 17.9	32.71S	71.45W	24	4.3D		
NEIC	Single network solution.							
NEIC	Felt I=III MM at Limache, Petorca, Quillota, Quilpue, Valparaiso, Vina del Mar and Zapallar.							
ISC	**XII**	**18 06 16 40**±10	**32.1S**±.67	**71.7W**±.34	**5**		**13**	**1-3**
NEIC	XII	18 06 16 40.1	32.07S	71.71W	5			¶97xii3721
GUC	XII	18 06 16 40.3	32.10S	71.79W	6	3.8D		
NEIC	Poor solution.							
ISC	**XII**	**19 12 52 54**±5.0	**32.8S**±.14	**71.7W**±.26	**8**±20		**15**	**1-3**
NEIC	XII	19 12 52 52.5	32.69S	71.79W	10			¶97xii3966
GUC	XII	19 12 52 54.6	32.73S	71.70W	26	4.1D		

NEIC Single network solution.
GUC XII 22 07 28 59.0 37.45S 73.32W 71 ¶97xii4378
GUC XII 22 12 27 55.3 31.21S 71.61W 26 ¶97xii4421
ISC XII 22 15 01 01±8.8 **34.6S**±.35 **72.4W**±.65 **15 9 1-2**
GUC XII 22 15 01 01.1 34.60S 72.40W 15 **¶97xii4437**
NEIC XII 22 15 01 02.1 34.59S 72.28W 20
NEIC Poor solution.
GUC XII 22 17 39 08.9 31.21S 71.46W 33 ¶97xii4458
GUC XII 23 02 37 52.3 30.90S 71.72W 52 ¶97xii4524
ISC XII 23 03 09 46±14 **31.2S**±.92 **71.7W**±.58 **27 13 2-3**
GUC XII 23 03 09 43.9 31.10S 71.66W 27 4.0D **¶97xii4527**
ISC XII 23 12 21 58±7.9 **32.6S**±.47 **71.0W**±.21 **80**±52 **13 0-2**
NEIC XII 23 12 21 57.9 32.53S 70.99W 80 **¶97xii4597**
GUC XII 23 12 21 58.4 32.56S 70.98W 76 3.0D
NEIC Single network solution.
ISC XII 24 02 37 51±3.3 **30.7S**±.18 **71.3W**±.36 **163**±55 **7 2-8**
¶97xii4691
GUC XII 24 18 04 45.2 31.15S 71.63W 25 4.2D ¶97xii4797
NEIC XII 24 18 04 47.7 31.33S 71.61W 20
NEIC Poor solution.
ISC XII 25 07 35 22±7.6 **32.6S**±.41 **71.9W**±.42 **10 12 1-2**
NEIC XII 25 07 35 22.0 32.55S 71.91W 10 **¶97xii4886**
GUC XII 25 07 35 23.5 32.58S 71.86W 15 3.4D
NEIC Poor solution.
ISC XII 25 14 03 55±3.3 **34.2S**±.14 **71.3W**±.17 **60**±32 **13 0-2**
GUC XII 25 14 03 54.4 34.25S 71.33W 63 2.3D **¶97xii4939**
NEIC XII 25 14 03 55.0 34.25S 71.28W 60
NEIC Single network solution.
GUC XII 26 01 37 49.1 31.27S 71.64W 26 3.7D ¶97xii5023
GUC XII 28 00 48 31.2 30.77S 71.80W 56 3.7D ¶97xii5369
GUC XII 28 08 23 01.7 32.68S 71.74W 27 3.8D ¶97xii5423
ISC XII 28 16 46 46±6.2 **34.5S**±.31 **71.2W**±.21 **63**±49 **11 0-1**
GUC XII 28 16 46 45.1 34.55S 71.19W 64 2.7D **¶97xii5477**
NEIC XII 28 16 46 45.6 34.53S 71.19W 60
NEIC Single network solution.
ISC XII 29 00 29 40±5.0 **34.3S**±.19 **71.9W**±.43 **38 13 1-2**
NEIC XII 29 00 29 40.3 34.30S 71.94W 33 **¶97xii5518**
GUC XII 29 00 29 41.2 34.26S 71.80W 38 3.7D
NEIC Single network solution.
GUC XII 29 08 00 48.9 32.52S 71.78W 30 4.0D ¶97xii5560
GUC XII 29 19 20 59.3 31.15S 71.75W 20 4.2D ¶97xii5623
GUC XII 30 07 36 22.3 30.88S 71.51W 22 4.0D ¶97xii5702
ISC XII 30 07 43 44±7.2 **32.4S**±.43 **71.7W**±.33 **10 13 1-2**
NEIC XII 30 07 43 44.1 32.41S 71.65W 10 **¶97xii5704**
GUC XII 30 07 43 46.4 32.53S 71.57W 9 3.3D
NEIC Poor solution.
GUC XII 31 05 22 13.9 31.06S 71.56W 26 3.7D ¶97xii5840
GUC XII 31 12 08 56.9 30.77S 71.76W 15 4.2D ¶97xii5892
ISC XII 31 21 11 28±2.2 **33.71S**±.072 **71.3W**±.15 **49**±29 **12 0-1**
GUC XII 31 21 11 27.1 33.71S 71.31W 53 **¶97xii5970**
NEIC XII 31 21 11 27.7 33.70S 71.30W 50
NEIC Single network solution.

(136) Central Chile.

GUC VII 01 06 17 06.6 35.88S 71.54W 128 3.1D ¶97vii0038
NEIC VII 01 06 17 05.7 35.91S 71.58W 140
NEIC Poor solution.
ISC VII 03 10 53 31±6.6 **35.5S**±.54 **71.1W**±.34 **122 12 1-3**
GUC VII 03 10 53 30.2 35.58S 71.14W 122 3.1D **¶97vii0397**
ISC VII 15 22 35 03±6.6 **35.3S**±.49 **71.4W**±.35 **98 13 1-3**
NEIC VII 15 22 35 02.3 35.31S 71.35W 110 **¶97vii2362**
GUC VII 15 22 35 02.6 35.30S 71.49W 98 3.5D
NEIC Poor solution.
ISC VIII 11 16 34 56±1.2 **28.29S**±.087 **71.0W**±.19 **200 12 4-12**
¶97viii1589
GUC VIII 12 08 35 37.0 35.50S 71.70W 34 3.8D ¶97viii1702
ISC VIII 15 07 56 27±11 **36.0S**±.84 **71.5W**±.53 **154 9 1-3**
GUC VIII 15 07 56 27.8 35.95S 71.41W 154 **¶97viii2185**
GUC VIII 19 06 10 03.0 36.53S 71.22W 174 2.8D ¶97viii2768
ISC VIII 20 22 28 54.4±.77 **29.53S**±.056 **70.35W**±.079 **95**±8.1 **4.4b 54 2-155**
NEIC VIII 20 22 28 54.1 29.53S 70.32W 93 4.7b **¶97viii3026**
EIDC VIII 20 22 28 55.6 29.5S 70.4W 93 4.2b
NEIC Felt I=III MM at Copiapo, Huasco, La Serena and Vallenar.
ISC IX 13 11 22 11±10 **35.6S**±.77 **71.5W**±.50 **117 11 2-3**
GUC IX 13 11 22 13.0 35.38S 71.48W 117 3.0D **¶97ix1966**
ISC IX 23 06 49 10±4.0 **35.1S**±.32 **71.2W**±.27 **102 14 0-2**
GUC IX 23 06 49 10.9 34.98S 71.15W 102 3.5D **¶97ix3386**
NEIC IX 23 06 49 11.3 34.96S 71.11W 100
NEIC Poor solution.
ISC X 09 15 02 13±8.3 **35.3S**±.65 **71.4W**±.38 **92 10 1-2**
NEIC X 09 15 02 12.0 35.37S 71.42W 100 **¶97x1598**
GUC X 09 15 02 12.8 35.35S 71.40W 92
NEIC Poor solution.
ISC X 11 17 47 20±6.6 **35.9S**±.57 **71.1W**±.42 **160 13 1-3**
NEIC X 11 17 47 18.7 35.96S 71.04W 160 **¶97x1918**
GUC X 11 17 47 19.1 35.89S 71.09W 166 2.6D
NEIC Poor solution.
GUC X 24 20 39 11.3 35.34S 71.32W 103 3.6D ¶97x4219
ISC X 25 14 44 36±5.9 **35.5S**±.49 **71.2W**±.35 **127 11 1-3**
GUC X 25 14 44 32.8 35.69S 71.30W 127 2.9D **¶97x4340**
ISC X 30 17 22 18±1.3 **37.88S**±.076 **72.9W**±.18 **63**±9.5 **4.3b 28 1-94**
NEIC X 30 17 22 14.1 37.83S 73.10W 33 **¶97x5070**
GUC X 30 17 22 15.8 37.84S 73.47W 94 4.3D
EIDC X 30 17 22 19.0 37.9S 72.9W 58 4.1b,4.1L
NEIC Felt I=IV MM, Less reliable solution.
NEIC Felt I=IV MM at Collipulli, Los Sauces and Puren; III MM at Angol and Renaico; II MM at Curacautin and Victoria.
ISC XI 02 14 07 05±7.4 **35.5S**±.55 **71.7W**±.43 **110 12 1-3**
NEIC XI 02 14 07 04.7 35.56S 71.66W 110 **¶97xi0273**
GUC XI 02 14 07 06.1 35.47S 71.56W 111 3.2D
NEIC Poor solution.
ISC XI 14 12 03 52±12 **35.4S**±.94 **71.4W**±.49 **121 8 1-3**
GUC XI 14 12 03 52.1 35.41S 71.44W 121 3.0D **¶97xi2285**
ISC XI 17 00 11 56±11 **35.3S**±.87 **71.3W**±.37 **100 8 1-2**
NEIC XI 17 00 11 56.6 35.17S 71.22W 100 **¶97xi2710**
GUC XI 17 00 11 57.0 35.12S 71.22W 104 3.3D
NEIC Poor solution.
GUC XI 23 12 07 50.0 35.31S 71.99W 1 3.8D ¶97xi4116
GUC XI 27 17 24 28.8 38.58S 72.39W 91 3.8D ¶97xi4906
ISC XI 27 22 49 04±8.8 **35.2S**±.67 **71.2W**±.32 **90 10 1-3**
NEIC XI 27 22 49 04.8 35.11S 71.15W 90 **¶97xi4953**
GUC XI 27 22 49 06.6 34.97S 71.12W 88
NEIC Poor solution.
GUC XII 23 07 17 41.6 37.01S 72.27W 168 3.4D ¶97xii4560
ISC XII 25 03 26 44±8.6 **35.7S**±.66 **71.5W**±.53 **119 10 1-3**
GUC XII 25 03 26 44.8 35.68S 71.36W 119 **¶97xii4860**
ISC XII 28 16 04 49±3.6 **35.1S**±.30 **71.2W**±.27 **107 13 0-2**
NEIC XII 28 16 04 49.0 35.09S 71.16W 110 **¶97xii5475**
GUC XII 28 16 04 49.9 35.04S 71.17W 107 3.1D
NEIC Poor solution.
ISC XII 31 22 02 41±6.3 **35.3S**±.47 **71.4W**±.34 **95 13 1-3**
NEIC XII 31 22 02 39.4 35.33S 71.38W 100 **¶97xii5980**
GUC XII 31 22 02 39.9 35.31S 71.42W 95
NEIC Single network solution.

(137) San Juan Province, Argentina.

ISC VII 01 09 05 38±4.9 **31.5S**±.43 **69.9W**±.21 **145 14 1-3**
NEIC VII 01 09 05 40.1 31.62S 70.11W 145 **¶97vii0054**
GUC VII 01 09 05 41.8 31.76S 70.17W 145 3.4D
NEIC Poor solution.
ISC VII 02 09 43 43.8±.52 **31.93S**±.065 **67.14W**±.079 **143**±7.5 3.8b **31 1-86**
EIDC VII 02 09 43 38.4 31.6S 70.0W 0 3.9b,4.1L **¶97vii0214**
NEIC VII 02 09 43 42.3 32.00S 66.93W 133 4.5b
GUC VII 02 09 43 44.8 31.92S 67.90W 250 4.2D
NEIC Less reliable solution.
ISC VII 07 04 31 19±4.2 **31.7S**±.37 **69.2W**±.25 **160 13 1-3**
NEIC VII 07 04 31 24.5 31.99S 69.72W 160 **¶97vii0991**
GUC VII 07 04 31 25.0 32.02S 69.85W 163
NEIC Poor solution.
ISC VII 07 22 43 17±12 **31.1S**±.81 **68.1W**±.63 **150 14 2-4**
NEIC VII 07 22 43 18.0 31.18S 68.14W 150 **¶97vii1100**
GUC VII 07 22 43 22.3 31.40S 68.96W 211 3.7D
NEIC Poor solution.
ISC VII 14 21 54 21±6.7 **31.4S**±.39 **69.8W**±.22 **154**±60 **14 1-3**
NEIC VII 14 21 54 22.4 31.51S 69.78W 140 **¶97vii2210**
GUC VII 14 21 54 26.5 31.78S 70.11W 142 3.4D
NEIC Less reliable solution.
ISC VII 18 05 57 43.8±.39 **31.59S**±.061 **69.19W**±.088 **136**±6.3 **3.6b 34 0-152**
NEIC VII 18 05 57 43.8 31.63S 69.17W 136 4.2b **¶97vii2702**
EIDC VII 18 05 57 44.4 31.7S 69.0W 124 3.6b
GUC VII 18 05 57 44.9 31.54S 69.84W 163 4.1D
ISC VII 22 11 11 02.5±.77 **31.1S**±.11 **68.6W**±.10 **111**±16 2.9b **21 0-151**
NEIC VII 22 11 11 00.9 31.36S 68.59W 200 **¶97vii3365**
GUC VII 22 11 11 03.0 31.21S 69.27W 202 4.4D
EIDC VII 22 11 11 45.2 28.2S 66.5W 394 2.4b
ISC VII 29 01 01 42±8.6 **31.0S**±.72 **69.1W**±.32 **169 13 2-4**
NEIC VII 29 01 01 46.4 31.28S 69.17W 150 **¶97vii4355**
GUC VII 29 01 01 50.2 31.51S 69.65W 169 3.2D
NEIC Poor solution.
ISC VIII 02 02 28 11.9±.57 **31.81S**±.064 **68.75W**±.084 **10 17 0-25**
GUC VIII 02 02 28 11.5 31.71S 68.97W 4 **¶97viii0156**
NEIC VIII 02 02 28 12.4 31.78S 68.89W 10
NEIC Less reliable solution.
GUC VIII 04 02 05 37.4 31.02S 68.95W 229 ¶97viii0445
ISC VIII 08 02 31 57±2.5 **31.3S**±.25 **69.6W**±.20 **143 14 1-3**
GUC VIII 08 02 32 01.0 31.64S 69.84W 143 3.7D **¶97viii1042**
NEIC VIII 08 02 32 01.0 31.69S 69.83W 150
NEIC Poor solution.
ISC VIII 10 15 28 17±1.8 **31.6S**±.24 **68.9W**±.18 **33 14 0-3**
NEIC VIII 10 15 28 41.3 32.86S 70.42W 33 **¶97viii1414**
NEIC Single network solution.
GUC VIII 11 12 51 25.8 31.35S 69.64W 187 3.7D ¶97viii1566
GUC VIII 17 03 04 22.9 31.11S 69.15W 200 3.6D ¶97viii2469
NEIC VIII 17 03 04 24.0 31.23S 68.68W 150
NEIC Poor solution.
ISC VIII 20 07 56 59±4.1 **31.7S**±.41 **69.7W**±.20 **160 12 1-3**
GUC VIII 20 07 56 57.5 31.65S 69.63W 161 3.2D **¶97viii2927**
NEIC VIII 20 07 56 58.6 31.73S 69.70W 160
NEIC Poor solution.
ISC VIII 27 14 31 14±2.3 **31.4S**±.27 **69.6W**±.27 **140 12 1-3**
NEIC VIII 27 14 31 18.6 31.78S 69.86W 150 **¶97viii4001**
GUC VIII 27 14 31 19.0 31.75S 69.86W 140 3.2D
NEIC Poor solution.
ISC VIII 29 00 59 48±1.3 **31.3S**±.23 **69.0W**±.31 **151**±16 **13 0-100**
GUC VIII 29 00 59 53.5 31.57S 69.60W 166 3.8D **¶97viii4211**
NEIC VIII 29 00 59 55.5 31.75S 69.56W 160
NEIC Poor solution.
ISC VIII 30 06 38 45±2.2 **31.4S**±.29 **69.1W**±.29 **172 12 0-3**
GUC VIII 30 06 38 52.5 31.83S 69.60W 172 3.2D **¶97viii4446**
NEIC VIII 30 06 38 53.0 31.87S 69.59W 170
NEIC Poor solution.
ISC VIII 31 11 15 44±4.2 **30.7S**±.47 **69.0W**±.35 **170 11 1-4**
GUC VIII 31 11 15 53.9 31.37S 69.52W 170 3.3D **¶97viii4643**
NEIC VIII 31 11 15 58.1 31.64S 69.70W 160
NEIC Poor solution.
ISC IX 01 16 00 06±4.7 **31.5S**±.45 **68.78W**±.094 **1 10 0-3**
GUC IX 01 16 00 06.3 31.57S 68.81W 1 3.8D **¶97ix0133**
ISC IX 09 06 47 13±7.7 **31.6S**±.60 **69.9W**±.52 **156 11 1-3**
GUC IX 09 06 47 10.4 31.49S 69.66W 156 3.5D **¶97ix1335**
NEIC IX 09 06 47 10.5 31.52S 69.70W 160
NEIC Poor solution.
ISC IX 10 12 37 58±10 **31.1S**±.75 **69.1W**±.85 **220 11 2-3**
GUC IX 10 12 37 59.4 31.26S 69.25W 220 3.8D **¶97ix1523**
ISC IX 15 04 38 35±12 **31.2S**±.88 **69.6W**±.74 **180 10 2-3**
GUC IX 15 04 38 34.0 31.15S 69.53W 177 3.2D **¶97ix2202**
NEIC IX 15 04 38 34.6 31.23S 69.47W 180
NEIC Poor solution.
ISC IX 20 08 53 10±6.9 **31.6S**±.54 **69.9W**±.53 **170 12 1-3**
NEIC IX 20 08 53 07.3 31.40S 69.73W 170 **¶97ix2917**
GUC IX 20 08 53 08.7 31.53S 69.87W 175 3.7D
NEIC Poor solution.
GUC IX 21 14 34 02.0 31.31S 69.52W 189 3.6D ¶97ix3114
NEIC IX 21 14 33 45.6 30.24S 68.45W 190
NEIC Poor solution.
ISC IX 25 07 10 23±4.9 **31.5S**±.42 **69.7W**±.21 **139 13 1-3**
NEIC IX 25 07 10 25.0 31.68S 69.96W 140 **¶97ix3699**
GUC IX 25 07 10 25.2 31.67S 69.99W 139 3.6D
NEIC Poor solution.

Agency	mo	Origin Time d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**IX**	**26 12 28 13**±2.7	**31.2S**±.28	**68.6W**±.13	**123**±22		**16**	**0-4**
GUC	IX	26 12 28 15.9	31.41S	69.32W	196	3.9D		¶97ix3992
ISC	**IX**	**30 06 36 25**±2.5	**31.3S**±.26	**69.6W**±.21	**148**		**13**	**1-4**
GUC	IX	30 06 36 29.7	31.58S	69.92W	148	3.2D		¶97ix5147
ISC	**IX**	**30 16 56 32**±2.7	**31.3S**±.27	**69.7W**±.22	**152**		**14**	**1-4**
GUC	IX	30 16 56 36.6	31.59S	69.98W	152	4.0D		¶97ix5280
ISC	**X**	**04 12 57 05**±3.5	**31.2S**±.33	**68.5W**±.33	**100**		**12**	**0-4**
NEIC	X	04 12 57 04.2	31.14S	68.56W	100			¶97x0648
GUC	X	04 12 57 04.3	31.28S	69.22W	219			
NEIC	Poor solution.							
ISC	**X**	**07 19 33 32**±1.8	**31.6S**±.23	**69.3W**±.25	**141**		**13**	**0-3**
GUC	X	07 19 33 35.5	31.76S	69.59W	141			¶97x1289
GUC	**X**	**17 05 56 57.2**	**31.34S**	**69.22W**	**181**	**4.0D**		¶97x2934
ISC	**X**	**19 05 20 15**±2.7	**31.1S**±.31	**68.7W**±.27	**183**		**13**	**0-4**
GUC	X	19 05 20 24.9	31.71S	69.59W	183	3.6D		¶97x3295
ISC	**X**	**22 18 01 07**±3.8	**30.7S**±.38	**69.0W**±.26	**170**		**13**	**1-4**
GUC	X	22 18 01 15.7	31.36S	69.52W	170	3.9D		¶97x3862
GUC	**X**	**23 20 15 21.9**	**31.53S**	**68.93W**	**205**			¶97x4056
ISC	**X**	**24 09 42 54**±9.5	**31.1S**±.70	**69.2W**±.79	**223**		**12**	**2-4**
GUC	X	24 09 42 54.0	31.19S	69.22W	223	3.5D		¶97x4142
ISC	**X**	**27 09 38 47**±3.8	**31.9S**±.34	**69.4W**±.21	**146**		**13**	**1-3**
GUC	X	27 09 38 52.5	32.22S	69.87W	146	3.5D		¶97x4596
ISC	**XI**	**01 05 26 54.8**±.50	**31.16S**±.067	**68.89W**±.094	**124**±9.4	**3.8b**	**27**	**0-125**
NEIC	XI	01 05 26 54.7	31.15S	68.90W	123	4.6b		¶97xi0033
GUC	XI	01 05 26 55.2	31.20S	69.66W	199	4.1D		
EIDC	XI	01 05 26 55.5	31.2S	68.9W	116	3.2b		
ISC	**XI**	**03 14 17 30**±2.5	**31.5S**±.28	**69.7W**±.30	**137**		**12**	**1-3**
GUC	XI	03 14 17 32.8	31.66S	69.95W	137	3.2D		¶97xi0478
NEIC	XI	03 14 17 33.4	31.67S	69.66W	100			
NEIC	Poor solution.							
ISC	**XI**	**10 09 56 56**±2.4	**31.3S**±.27	**69.5W**±.21	**156**		**12**	**1-3**
GUC	XI	10 09 57 00.3	31.64S	69.89W	156	3.6D		¶97xi1593
NEIC	XI	10 09 57 01.1	31.60S	69.57W	100			
NEIC	Poor solution.							
ISC	**XI**	**15 09 52 03**±7.7	**31.1S**±.69	**69.5W**±.27	**174**		**11**	**2-3**
GUC	XI	15 09 52 07.9	31.39S	69.96W	174	3.3D		¶97xi2455
NEIC	XI	15 09 52 09.2	31.48S	69.96W	170			
NEIC	Poor solution.							
ISC	**XI**	**15 15 49 19**±2.9	**31.2S**±.30	**69.7W**±.22	**148**		**12**	**1-3**
NEIC	XI	15 15 49 19.0	31.21S	69.65W	150			¶97xi2502
GUC	XI	15 15 49 24.1	31.56S	69.90W	148	3.3D		
NEIC	Poor solution.							
ISC	**XI**	**16 00 46 37**±6.3	**31.8S**±.52	**70.0W**±.47	**160**		**10**	**1-3**
GUC	XI	16 00 46 33.4	31.57S	69.78W	160	3.2D		¶97xi2577
NEIC	XI	16 00 46 35.2	31.72S	69.85W	160			
NEIC	Poor solution.							
ISC	**XI**	**27 16 17 25**±8.5	**31.5S**±.66	**69.7W**±.61	**170**		**10**	**1-3**
GUC	XI	27 16 17 22.7	31.30S	69.68W	172			¶97xi4896
NEIC	XI	27 16 17 22.9	31.33S	69.60W	170			
NEIC	Poor solution.							
ISC	**XI**	**28 06 05 49**±6.3	**31.7S**±.53	**70.0W**±.48	**164**		**10**	**1-3**
GUC	XI	28 06 05 46.8	31.53S	69.99W	164			¶97xi5023
NEIC	XI	28 06 05 47.9	31.64S	69.90W	160			
NEIC	Poor solution.							
ISC	**XI**	**29 05 49 46**±5.2	**31.7S**±.48	**69.6W**±.20	**130**		**9**	**1-3**
NEIC	XI	29 05 49 45.3	31.70S	69.61W	130			¶97xi5205
GUC	XI	29 05 49 47.4	31.81S	69.76W	130	3.2D		
NEIC	Poor solution.							
ISC	**XII**	**01 20 04 56**±1.8	**31.6S**±.26	**69.2W**±.29	**158**		**11**	**0-3**
GUC	XII	01 20 05 01.3	31.89S	69.76W	158	3.3D		¶97xii0140
ISC	**XII**	**04 07 21 28**±2.2	**31.84S**±.090	**67.7W**±.10	**151**±58		**20**	**1-4**
GUC	XII	04 07 21 24.2	31.23S	67.77W	115	3.9D		¶97xii0571
NEIC	XII	04 07 21 28.3	31.83S	67.72W	130			
NEIC	Less reliable solution.							
ISC	**XII**	**04 09 33 33**±1.8	**31.7S**±.11	**69.8W**±.17	**133**±31		**16**	**1-3**
NEIC	XII	04 09 33 32.4	31.73S	69.74W	140			¶97xii0589
GUC	XII	04 09 33 33.8	31.76S	69.98W	138	3.7D		
ISC	**XII**	**04 12 39 37**±1.3	**31.7S**±.10	**69.4W**±.13	**129**±22		**17**	**1-4**
GUC	XII	04 12 39 37.8	31.79S	69.89W	162	3.9D		¶97xii0616
ISC	**XII**	**08 20 45 12**±1.8	**31.1S**±.12	**68.6W**±.30	**103**±26		**15**	**0-4**
GUC	XII	08 20 45 09.0	31.04S	69.13W	210			¶97xii2012
NEIC	XII	08 20 45 11.8	31.15S	68.60W	102			
NEIC	Less reliable solution.							
ISC	**XII**	**08 22 46 49**±5.1	**31.5S**±.45	**69.6W**±.22	**149**		**13**	**1-3**
NEIC	XII	08 22 46 48.1	31.36S	69.60W	150			¶97xii2034
GUC	XII	08 22 46 51.7	31.55S	69.93W	149	3.3D		
NEIC	Poor solution.							
ISC	**XII**	**09 17 37 58.6**±.56	**31.85S**±.065	**68.81W**±.099	**10**		**18**	**0-4**
GUC	XII	09 17 37 56.3	31.41S	69.13W	145	4.2D		¶97xii2209
NEIC	XII	09 17 37 58.4	31.86S	68.80W	10			
ISC	**XII**	**10 17 57 04**±2.0	**31.5S**±.21	**69.2W**±.16	**100**		**15**	**0-3**
NEIC	XII	10 17 57 03.7	31.51S	69.15W	100			¶97xii2398
GUC	XII	10 17 57 04.1	31.63S	69.58W	173	3.6D		
NEIC	Less reliable solution.							
ISC	**XII**	**13 10 05 28**±2.2	**31.5S**±.25	**69.8W**±.26	**147**		**14**	**1-3**
NEIC	XII	13 10 05 32.0	31.77S	70.05W	150			¶97xii2929
GUC	XII	13 10 05 32.9	31.85S	70.06W	147	3.9D		
NEIC	Poor solution.							
ISC	**XII**	**16 09 03 16**±3.4	**30.9S**±.38	**69.0W**±.32	**170**		**13**	**1-4**
GUC	XII	16 09 03 26.5	31.59S	69.62W	174	3.7D		¶97xii3420
NEIC	XII	16 09 03 26.6	31.57S	69.63W	170			
NEIC	Poor solution.							
ISC	**XII**	**27 00 07 05**±3.1	**31.1S**±.33	**68.4W**±.18	**163**±43		**15**	**2-4**
GUC	XII	27 00 07 05.3	31.10S	69.05W	220	3.9D		¶97xii5210
GUC	**XII**	**30 05 50 02.0**	**31.48S**	**68.29W**	**11**	**3.7D**		¶97xii5689
ISC	**XII**	**30 07 33 46**±6.5	**31.7S**±.51	**69.9W**±.48	**160**		**12**	**1-3**
GUC	XII	30 07 33 43.7	31.61S	69.73W	157	2.5D		¶97xii5701
NEIC	XII	30 07 33 44.7	31.67S	69.83W	160			
NEIC	Poor solution.							
ISC	**XII**	**30 09 31 04**±4.1	**31.9S**±.34	**69.1W**±.25	**150**		**14**	**1-3**
NEIC	XII	30 09 31 03.4	31.79S	69.04W	150			¶97xii5714
GUC	XII	30 09 31 07.4	32.01S	69.57W	167	3.7D		
NEIC	Poor solution.							

(138) La Rioja Province, Argentina.

ISC	**VII**	**20 14 51 29.7**±.61	**31.62S**±.074	**66.97W**±.097	**138**±8.1	**3.7b**	**20**	**1-159**
EIDC	VII	20 14 51 28.3	31.6S	66.8W	109	3.6b		¶97vii3106
NEIC	VII	20 14 51 30.3	31.55S	66.80W	145			
NEIC	Less reliable solution.							
ISC	**VII**	**25 12 34 38**±1.3	**28.3S**±.10	**67.3W**±.14	**139**±15	**3.8b**	**11**	**4-82**
NEIC	VII	25 12 34 37.5	28.27S	67.32W	137			¶97vii3828
EIDC	VII	25 12 34 42.0	28.0S	67.2W	157	3.7b		
NEIC	Less reliable solution.							
ISC	**VIII**	**14 00 37 19**±1.4	**29.7S**±.11	**67.9W**±.19	**33**		**5**	**2-5**
								¶97viii1987
ISC	**VIII**	**27 12 55 35.9**±.80	**28.11S**±.063	**68.93W**±.092	**106**±9.0	**4.3b**	**47**	**1-163**
NEIC	VIII	27 12 55 33.2	28.02S	68.85W	82	4.6b		¶97viii3985
EIDC	VIII	27 12 55 40.7	28.0S	68.7W	137	3.8b		
NEIC	Less reliable solution.							
ISC	**IX**	**17 06 25 15**±8.7	**28.8S**±.85	**67.6W**±.18	**250**		**12**	**4-6**
								¶97ix2475
ISC	**IX**	**17 07 17 10.2**±.63	**28.87S**±.073	**67.4W**±.12	**139**±14	**3.3b**	**21**	**4-127**
NEIC	IX	17 07 17 09.9	28.83S	67.46W	133			¶97ix2482
EIDC	IX	17 07 17 13.0	28.7S	67.2W	143	3.0b		
NEIC	Less reliable solution.							
ISC	**IX**	**23 21 55 06**±7.5	**28.9S**±.64	**68.4W**±.17	**100**		**16**	**3-6**
								¶97ix3483
ISC	**XII**	**07 11 46 00.6**±.40	**29.05S**±.043	**67.13W**±.069	**140**±5.1	**4.3b**	**60**	**1-149**
GUC	XII	07 11 46 00.4	29.25S	68.69W	354	4.7D		¶97xii1691
NEIC	XII	07 11 46 00.5	29.03S	67.19W	139	4.6b		
EIDC	XII	07 11 46 01.8±.35	29.0S	67.2W	132±3.6	4.1b		
BJI	XII	07 11 46 06.5	29.00S	67.20W	139			
EIDC	Error ellipse is semi−major=25.5km semi−minor=18.9km azimuth=54							
ISC	**XII**	**27 13 11 18.2**±.54	**31.72S**±.076	**66.73W**±.094	**145**±7.8	**3.7b**	**32**	**2-152**
NEIC	XII	27 13 11 18.4	31.76S	66.72W	148	4.0b		¶97xii5292
EIDC	XII	27 13 11 19.3±.60	31.7S	66.7W	140±6.3	3.6b		
GUC	XII	27 13 11 30.1	32.12S	68.20W	222	4.1D		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=33.5km semi−minor=30.0km azimuth=118							

(139) Mendoza Province, Argentina.

ISC	**VII**	**10 05 31 25**±3.0	**33.6S**±.12	**68.5W**±.27	**11**		**14**	**1-2**
GUC	VII	10 05 31 24.3	33.60S	68.46W	11	3.9D		¶97vii1457
NEIC	VII	10 05 31 24.8	33.53S	68.52W	10			
NEIC	Less reliable solution.							
ISC	**VII**	**12 09 58 34**±1.0	**33.22S**±.097	**68.06W**±.095	**10**		**16**	**1-3**
NEIC	VII	12 09 58 33.2	33.22S	68.02W	10			¶97vii1801
GUC	VII	12 09 58 34.1	33.28S	68.16W	4	4.0D		
NEIC	Less reliable solution.							
ISC	**VII**	**13 11 21 10.0**±.44	**32.10S**±.056	**68.31W**±.074	**121**±5.6	**3.9b**	**41**	**1-90**
NEIC	VII	13 11 21 09.5	32.13S	68.25W	119	3.9b		¶97vii1963
EIDC	VII	13 11 21 10.2	32.1S	68.2W	113	3.8b,2.9s		
GUC	VII	13 11 21 11.6	32.03S	69.15W	191	4.3D		
GUC	**VIII**	**09 20 42 13.8**	**32.24S**	**68.06W**	**1**	**3.8D**		¶97viii1306
ISC	**VIII**	**11 08 52 56**±4.6	**32.1S**±.33	**69.7W**±.44	**150**		**11**	**1-2**
GUC	VIII	11 08 52 54.6	32.01S	69.69W	148	2.8D		¶97viii1533
NEIC	VIII	11 08 52 54.6	32.04S	69.68W	150			
NEIC	Poor solution.							
GUC	**VIII**	**17 02 23 30.9**	**33.05S**	**68.12W**	**10**	**3.7D**		¶97viii2459
ISC	**VIII**	**19 11 31 54.7**±.65	**32.65S**±.073	**68.84W**±.069	**20**		**15**	**0-4**
GUC	VIII	19 11 31 55.3	32.64S	68.93W	19	4.0D		¶97viii2800
NEIC	VIII	19 11 31 55.9	32.65S	68.98W	20			
NEIC	Less reliable solution.							
ISC	**VIII**	**21 16 02 31**±6.4	**32.1S**±.48	**69.6W**±.59	**160**		**9**	**1-2**
NEIC	VIII	21 16 02 29.6	32.01S	69.54W	160			¶97viii3117
GUC	VIII	21 16 02 29.7	32.02S	69.46W	155	2.5D		
NEIC	Poor solution.							
ISC	**VIII**	**26 10 58 29.8**±.66	**32.69S**±.080	**68.76W**±.072	**5**		**14**	**1-4**
GUC	VIII	26 10 58 31.9	32.66S	68.95W	5	4.2D		¶97viii3836
NEIC	VIII	26 10 58 36.1	32.80S	69.28W	5			
NEIC	Poor solution.							
GUC	**VIII**	**28 12 04 31.8**	**33.89S**	**68.57W**	**3**	**3.2D**		¶97viii4127
ISC	**IX**	**05 20 13 47**±1.2	**32.9S**±.15	**69.2W**±.28	**33**	**3.7b**	**7**	**17-153**
EIDC	IX	05 20 13 44.3	32.9S	69.3W	0	3.7b,3.7L		¶97ix0794
ISC	**IX**	**10 08 26 09**±3.9	**32.5S**±.28	**69.7W**±.50	**135**		**8**	**1-2**
NEIC	IX	10 08 26 09.0	32.46S	69.67W	135			¶97ix1496
GUC	IX	10 08 26 09.2	32.46S	69.68W	135			
NEIC	Poor solution.							
GUC	**IX**	**12 04 39 50.1**	**33.36S**	**68.41W**	**4**	**3.8D**		¶97ix1770
ISC	**IX**	**12 06 41 57.8**±.93	**33.1S**±.19	**68.1W**±.11	**4**		**13**	**2-3**
GUC	IX	12 06 41 56.3	33.23S	67.99W	4	4.0D		¶97ix1779
NEIC	IX	12 06 41 57.9	33.15S	68.12W	5			
NEIC	Single network solution.							
GUC	**IX**	**15 12 58 05.9**	**33.67S**	**68.69W**	**16**	**3.5D**		¶97ix2246
NEIC	IX	15 12 58 11.5	33.64S	69.23W	10			
NEIC	Poor solution.							
ISC	**IX**	**25 12 28 07**±1.5	**32.6S**±.16	**69.9W**±.15	**120**		**12**	**1-2**
NEIC	IX	25 12 28 07.5	32.56S	69.95W	120			¶97ix3738
GUC	IX	25 12 28 07.8	32.58S	69.99W	121	3.2D		
NEIC	Poor solution.							
ISC	**X**	**09 19 19 17.0**±.59	**32.69S**±.070	**67.61W**±.069	**52**±8.4	**4.2b**	**33**	**1-146**
GUC	X	09 19 19 09.9	32.65S	67.38W	204	4.6D		¶97x1627
NEIC	X	09 19 19 16.9	32.68S	67.62W	49	4.2b		
EIDC	X	09 19 19 40.2	31.8S	67.2W	211	3.7b		
GUC	**X**	**16 09 22 09.4**	**33.43S**	**68.87W**	**14**	**3.1D**		¶97x2816
GUC	**X**	**26 20 12 58.0**	**33.21S**	**68.07W**	**8**	**3.8D**		¶97x4521
ISC	**XI**	**12 13 21 16**±2.1	**33.3S**±.13	**68.9W**±.20	**5**		**12**	**0-2**
NEIC	XI	12 13 21 14.6	33.27S	68.87W	5			¶97xi1986
GUC	XI	12 13 21 17.5	33.29S	69.07W	4	3.7D		
NEIC	Less reliable solution.							
ISC	**XI**	**26 13 53 51**±3.0	**32.8S**±.34	**68.3W**±.38	**189**		**9**	**0-3**
NEIC	XI	26 13 53 48.5	32.73S	68.22W	200			¶97xi4694
GUC	XI	26 13 53 49.0	32.60S	68.25W	189			
NEIC	Poor solution.							
ISC	**XII**	**02 22 12 14**±6.4	**33.8S**±.17	**68.4W**±.56	**5**		**13**	**1-3**
NEIC	XII	02 22 12 13.9	33.75S	68.39W	5			¶97xii0321
GUC	XII	02 22 12 16.3	33.79S	68.62W	1	3.8D		
NEIC	Poor solution.							
ISC	**XII**	**04 09 45 40**±3.0	**33.4S**±.11	**68.8W**±.28	**13**		**14**	**1-2**
GUC	XII	04 09 45 40.7	33.47S	68.80W	13	3.9D		¶97xii0591
ISC	**XII**	**12 07 38 04**±4.1	**32.2S**±.30	**70.0W**±.39	**130**		**13**	**1-3**
NEIC	XII	12 07 38 03.2	32.16S	69.90W	130			¶97xii2712
GUC	XII	12 07 38 04.2	32.19S	69.96W	126	3.2D		
NEIC	Poor solution.							
ISC	**XII**	**27 08 31 07**±6.5	**34.2S**±.24	**68.2W**±.54	**10**		**14**	**1-3**
NEIC	XII	27 08 31 04.2	34.27S	68.06W	10			¶97xii5271
GUC	XII	27 08 31 11.2	34.08S	68.55W	11	3.8D		
NEIC	Poor solution.							

GUC	**XII**	**29 22 59 00.8**	**32.76S**	**68.36W**	**15**	**3.5**D	**¶97xii5650**

(141) Cordoba Province, Argentina.

ISC	**VII**	**31 18 03 09.9**±.61	**31.97S**±.073	**64.56W**±.075	**33**	3.9b,3.0s	**24 1-152**
NEIC	VII	31 18 03 09.7	32.00S	64.55W	33		**¶97vii4773**
EIDC	VII	31 18 03 10.8	32.0S	64.7W	33	4.4L,3.7b	
NEIC	Felt I=III MM at Cordoba.						
ISC	**XI**	**04 00 26 29.2**±.55	**31.05S**±.075	**65.65W**±.077	**185**±7.7	**4.1b**	**39 1-151**
NEIC	XI	04 00 26 26.7	30.91S	65.51W	150		**¶97xi0542**
EIDC	XI	04 00 26 27.4	30.9S	65.5W	146	3.9b	
GUC	XI	04 00 26 28.9	31.05S	66.07W	258	4.1D	

SEISMIC REGION 9.
EXTREME SOUTH AMERICA.

(143) Off coast of Southern Chile.

ISC	**VII**	**04 23 52 05.0**±.47	**45.51S**±.063	**76.3W**±.13	**10**	**4.7b,4.6s**	**87 6-153**
EIDC	VII	04 23 52 03.8	45.6S	76.6W	0	4.5b,5.1s	**¶97vii0641**
HRVD	VII	04 23 52 04.4±.3	45.63S±.04	76.92W±.06	15		
NEIC	VII	04 23 52 04.5	45.53S	76.31W	10	4.9b,4.6s	
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c50; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.35±.37; $M_{\theta\theta}$2.97±.39; $M_{\phi\phi}$−0.62±.41; $M_{r\theta}$0.00±.00; $M_{r\phi}$0.00±.00; $M_{\theta\phi}$−7.98±.37. Principal Axes: T 9.36,Plg0°,Azm219°; N −2.35, Plg90°,Azm180°; P −7.01,Plg0°,Azm129°. Best double couple: $M_0$8.2×10^{16}Nm, NP1: ϕ_S264°,δ90°,λ−180°. NP2:ϕ_S354°,δ90°,λ0°.						
NEIC	Mw5.2(HRV).						
ISC	**X**	**25 01 36 01**±1.6	**44.3S**±.22	**80.6W**±.20	**10**	**4.1b**	**19 8-154**
EIDC	X	25 01 36 13.0	43.0S	80.7W	35	3.8b,4.7L	**¶97x4251**
GUC	X	25 01 38 42.6	34.88S	71.92W	28		
ISC	**XI**	**05 06 09 13.3**±.57	**43.85S**±.085	**78.3W**±.13	**10**	**4.5b,5.0s**	**70 7-172**
HRVD	XI	05 06 09 13.4±.2	44.54S±.04	78.73W±.04	15		**¶97xi0742**
NEIC	XI	05 06 09 14.0	43.76S	78.18W	10	4.5b,5.0s	
EIDC	XI	05 06 09 14.4	43.8S	78.0W	0	4.3b,5.2s	
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c55; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.14±.06; $M_{\theta\theta}$1.00±.08; $M_{\phi\phi}$−0.85±.08; $M_{r\theta}$−0.16±.23; $M_{r\phi}$−0.75±.22; $M_{\theta\phi}$−2.39±.06. Principal Axes: T 2.66,Plg6°,Azm35°; N 0.02, Plg73°,Azm146°; P −2.69,Plg15°,Azm304°. Best double couple: $M_0$2.7×10^{17}Nm, NP1: ϕ_S80°,δ75°,λ−173°. NP2:ϕ_S349°,δ84°,λ−15°.						
NEIC	Mw5.6(HRV), Less reliable solution.						
EIDC	**XII**	**26 13 39 49.3**±1.06	**46.2S**	**76.7W**	**18**±4.8	**3.8b,**3.5L	**7-152**
EIDC	Error ellipse is semi−major=57.1km semi−minor=34.6km azimuth=81						**¶97xii5134**

(144) Near coast of Southern Chile.

ISC	**VII**	**01 11 16 18**±8.5	**46.0S**±.20	**72.7W**±.44	**30**±60	**4.0b,**3.4s	**10 5-166**
EIDC	VII	01 11 16 15.2	46.1S	72.6W	0	4.1b,3.4s	**¶97vii0073**
NEIC	VII	01 11 16 18.3	45.98S	72.71W	33	4.1b	
NEIC	Poor solution.						
ISC	**IX**	**21 16 58 36**±1.2	**42.8S**±.21	**74.7W**±.27	**33**	**4.3b,**3.2s	**12 4-82**
EIDC	IX	21 16 58 31.5	42.9S	74.8W	0	4.6b,3.2s	**¶97ix3132**
ISC	**XII**	**18 12 30 03.9**±.41	**41.79S**±.052	**73.1W**±.12	**47**±.6*	**4.8b,4.6s**	**74 2-168**
NEIC	XII	18 12 30 03.4	41.82S	73.04W	48	5.1b	**¶97xii3764**
EIDC	XII	18 12 30 05.8±.41	41.9S	73.2W	50±3.0	4.6b,4.6s	
HRVD	XII	18 12 30 07.4±.6	41.99S±.07	72.92W±.16	44±7.7		
NEIC	Mw5.2(HRV)						
NEIC	Felt I=V MM at Castro; IV MM at Ancud, Chacao, Puerto Montt, Puerto Varas and Quemchi; III MM at Osorno and Valdivia.						
EIDC	Error ellipse is semi−major=18.7km semi−minor=14.6km azimuth=52						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.34±.55; $M_{\theta\theta}$−3.69±.51; $M_{\phi\phi}$0.35±.84; $M_{r\theta}$−2.89±.86; $M_{r\phi}$4.64±.91; $M_{\theta\phi}$2.57±.82. Principal Axes: T 6.80,Plg56°,Azm261°; N 0.38, Plg21°,Azm136°; P −7.18,Plg26°,Azm35°. Best double couple: $M_0$7.0×10^{16}Nm, NP1:ϕ_S87°, δ27°,λ37°. NP2:ϕ_S323°,δ74°,λ112°.						

(145) Southern Chile-Argentina border region.

ISC	**VII**	**31 16 21 51**±2.8	**39.1S**±.16	**71.2W**±.51	**87**±24	**3.7b**	**6 2-77**
EIDC	VII	31 16 21 48.2	38.9S	71.7W	67	3.7b	**¶97vii4762**
NEIC	VII	31 16 21 51.4	39.07S	71.24W	100		
NEIC	Poor solution.						
ISC	**XII**	**11 14 27 26**±1.6	**37.50S**±.085	**71.2W**±.61	**181**±20	**3.8b**	**17 3-76**
EIDC	XII	11 14 27 19.7±1.74	37.4S	68.6W	0	4.0b,4.3L	**¶97xii2581**
NEIC	XII	11 14 27 26.7	37.52S	70.50W	150	3.6b	
GUC	XII	11 14 27 29.7	36.91S	71.16W	239	3.8D	
EIDC	Error ellipse is semi−major=51.9km semi−minor=28.2km azimuth=105						
NEIC	Less reliable solution.						

SEISMIC REGION 10.
SOUTHERN ANTILLES.

(149) Drake Passage.

ISC	**XI**	**21 11 14 33.2**±.47	**59.41S**±.078	**65.8W**±.25	**33**	**4.5b,**4.4s	**23 19-138**
EIDC	XI	21 11 14 29.2	59.5S	65.7W	0	4.5b,4.4s	**¶97xi3639**
NEIC	XI	21 11 14 33.0	59.41S	65.82W	33	4.7b,4.4s	
NEIC	Less reliable solution.						

(150) Scotia Sea.

ISC	**VII**	**09 16 09 10**±1.5	**60.6S**±.21	**50.6W**±.59	**10**	**4.2b**	**10 45-144**
NEIC	VII	09 16 09 08.6	60.62S	50.88W	10		**¶97vii1363**
EIDC	VII	09 16 09 08.7	60.6S	51.0W	0	4.2b,3.2s	
NEIC	Poor solution.						
ISC	**X**	**10 10 21 27.1**±.84	**60.3S**±.15	**45.5W**±.35	**10**	**4.5b,4.0s**	**17 18-149**
NEIC	X	10 10 21 25.0	60.58S	45.88W	10	4.7b	**¶97x1737**
EIDC	X	10 10 21 25.2	60.7S	45.9W	0	4.4b,4.0s	
NEIC	Less reliable solution.						
ISC	**XI**	**01 00 51 46.5**±.63	**60.4S**±.11	**49.6W**±.32	**10**	**4.7b,**4.3s	**18 24-157**
NEIC	XI	01 00 51 45.6	60.36S	49.66W	10	4.2b	**¶97xi0004**
EIDC	XI	01 00 51 45.8	60.5S	50.0W	0	4.4b,4.3s	
NEIC	Poor solution.						
ISC	**XII**	**01 07 12 15.4**±.88	**59.0S**±.12	**58.5W**±.38	**10**	**4.3b,**3.4s	**13 20-101**
NEIC	XII	01 07 12 15.0	59.06S	58.40W	10	4.0b	**¶97xii0049**
EIDC	XII	01 07 12 15.1±1.32	59.1S	58.4W	0	4.3b,3.4s	
NEIC	Poor solution.						
EIDC	Error ellipse is semi−major=42.7km semi−minor=18.4km azimuth=59						
ISC	**XII**	**02 11 18 18.1**±.73	**60.5S**±.11	**50.1W**±.31	**10**	**4.4b,**4.2s	**24 19-152**
NEIC	XII	02 11 18 15.9	60.56S	50.67W	10	4.6b	**¶97xii0233**
BJI	XII	02 11 18 16.9	60.60S	50.70W	10		
EIDC	XII	02 11 18 17.2±.95	60.6S	50.4W	0	4.4b,4.2s	
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=33.0km semi−minor=19.8km azimuth=52						

(153) South Sandwich Islands region.

ISC	**VII**	**03 02 16 19**±2.7	**59.3S**±.12	**26.7W**±.24	**161**±29	**4.1b**	**17 14-127**
NEIC	VII	03 02 16 17.8	59.29S	26.70W	150		**¶97vii0339**
EIDC	VII	03 02 16 24.0	59.3S	26.6W	194	3.8b	
NEIC	Poor solution.						
ISC	**VII**	**04 03 48 22.6**±.85	**57.7S**±.16	**25.9W**±.35	**100**	**4.0b**	**10 45-152**
NEIC	VII	04 03 48 22.3	57.72S	25.95W	100		**¶97vii0492**
EIDC	VII	04 03 48 26.9	57.8S	26.0W	121	3.8b	
NEIC	Single network solution.						
ISC	**VII**	**09 15 57 30.9**±.91	**57.0S**±.18	**26.6W**±.37	**100**	**4.1b**	**9 38-151**
NEIC	VII	09 15 57 30.5	56.99S	26.54W	100	4.6b	**¶97vii1362**
EIDC	VII	09 15 57 37.8	57.0S	26.6W	151	3.8b	
NEIC	Less reliable solution.						
ISC	**VII**	**10 22 46 54**±1.7	**57.0S**±.11	**26.3W**±.65	**33**	**4.3b**	**13 16-151**
NEIC	VII	10 22 46 53.8	56.90S	26.43W	33	4.3b	**¶97vii1581**
EIDC	VII	10 22 47 20.5	57.4S	25.1W	246	3.7b	
NEIC	Poor solution.						
ISC	**VII**	**10 23 29 15**±6.3	**57.96S**±.064	**25.4W**±.15	**10**±38	**4.9b,4.6s**	**81 15-158**
BJI	VII	10 23 29 17.5	57.90S	25.30W	33	5.5s	**¶97vii1587**
NEIC	VII	10 23 29 18.3	57.91S	25.30W	33	4.9b	
EIDC	VII	10 23 29 23.2	57.9S	25.5W	60	4.6b,4.3s	
ISC	**VII**	**14 05 06 02**±5.4	**59.27S**±.088	**26.3W**±.18	**33**±40	**4.5b,3.7s**	**41 14-153**
BJI	VII	14 05 06 06.1	59.30S	26.30W	73		**¶97vii2071**
NEIC	VII	14 05 06 06.1	59.26S	26.32W	73	4.6b	
EIDC	VII	14 05 06 07.4	59.3S	26.4W	71	4.2b,3.7s	
ISC	**VII**	**15 02 04 16.0**±.48	**58.80S**±.080	**25.4W**±.21	**40**±1.7*	**4.4b**	**36 14-159**
NEIC	VII	15 02 04 15.4	58.66S	25.40W	33	4.4b	**¶97vii2234**
EIDC	VII	15 02 04 17.7	58.8S	25.3W	38	4.2b	
NEIC	Less reliable solution.						
ISC	**VII**	**17 14 16 02**±4.2	**57.9S**±.12	**25.4W**±.30	**51**±40	**4.3b,**3.5s	**25 15-158**
NEIC	VII	17 14 15 58.8	57.98S	25.47W	33	4.5b	**¶97vii2603**
EIDC	VII	17 14 16 06.3	57.9S	25.5W	75	4.1b,3.5s	
NEIC	Less reliable solution.						
ISC	**VII**	**18 14 45 51.8**±.37	**60.52S**±.069	**25.0W**±.20	**33**	**4.9b,4.4s**	**72 12-159**
EIDC	VII	18 14 45 47.9	60.6S	24.9W	0	4.9b,4.4s	**¶97vii2756**
HRVD	VII	18 14 45 49.6±.5	61.06S±.08	24.26W±.21	15		
NEIC	VII	18 14 45 51.2	60.53S	24.98W	33	4.9b,4.4s	
BJI	VII	18 14 45 51.6	60.90S	24.14W	32		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c27; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.07±.38; $M_{\theta\theta}$3.11±.47; $M_{\phi\phi}$1.96±.36; $M_{r\theta}$0.64±1.67; $M_{r\phi}$0.07±1.96; $M_{\theta\phi}$1.73±.42. Principal Axes: T 4.39,Plg3°,Azm324°; N 0.73, Plg3°,Azm54°; P −5.12,Plg85°,Azm187°. Best double couple: $M_0$4.8×10^{16}Nm, NP1:ϕ_S51°, δ42°,λ−95°. NP2:ϕ_S237°,δ48°,λ−86°.						
NEIC	Mw5.1(HRV).						
ISC	**VII**	**22 02 51 56**±3.0	**55.7S**±.63	**27.0W**±.31	**33**	**4.2b,**3.8s	**13 37-151**
EIDC	VII	22 02 51 51.4	56.0S	27.2W	0	4.2b,3.8s	**¶97vii3318**
NEIC	VII	22 02 51 55.0	55.91S	27.10W	33	4.1b	
NEIC	Poor solution.						
ISC	**VIII**	**04 19 10 05.7**±.83	**56.2S**±.14	**27.0W**±.35	**268**	**3.9b**	**14 17-150**
NEIC	VIII	04 19 09 58.3	56.16S	27.02W	200	4.0b	**¶97viii0533**
EIDC	VIII	04 19 10 07.1	56.2S	27.1W	268	3.8b	
NEIC	Less reliable solution.						
ISC	**VIII**	**04 20 35 29**±3.8	**55.93S**±.096	**27.6W**±.19	**108**±37	**4.5b**	**32 17-158**
NEIC	VIII	04 20 35 19.9	55.94S	27.46W	33	5.1b	**¶97viii0546**
EIDC	VIII	04 20 35 27.6	56.0S	27.5W	84	4.2b	
NEIC	Less reliable solution.						
ISC	**VIII**	**05 08 06 30**±1.3	**59.8S**±.23	**25.9W**±.67	**33**	**3.9b,**3.8s	**5 13-153**
EIDC	VIII	05 08 06 25.9	59.7S	26.0W	0	3.7s,4.0b	**¶97viii0634**
ISC	Poorly determined						
ISC	**VIII**	**05 20 43 26**±1.2	**55.9S**±.20	**26.7W**±.36	**33**	**4.1b**	**8 32-150**
EIDC	VIII	05 20 43 22.8	55.9S	26.6W	0	4.1b,3.8s	**¶97viii0711**
NEIC	VIII	05 20 43 25.7	55.85S	26.71W	33	4.3b	
NEIC	Poor solution.						
ISC	**VIII**	**09 22 48 13**±3.6	**58.5S**±.11	**26.3W**±.23	**131**±37	**4.3b**	**28 14-159**
NEIC	VIII	09 22 48 09.9	58.54S	26.28W	107		**¶97viii1314**
EIDC	VIII	09 22 48 11.6	58.6S	26.3W	107	4.1b,3.4s	
NEIC	Less reliable solution.						
ISC	**VIII**	**10 18 34 41**±4.3	**56.0S**±.12	**27.4W**±.29	**174**±42	**4.2b**	**21 17-159**
NEIC	VIII	10 18 34 43.4	55.99S	27.67W	200	4.1b	**¶97viii1438**
EIDC	VIII	10 18 34 45.4	56.1S	27.7W	202	4.0b	
NEIC	Less reliable solution.						
ISC	**VIII**	**10 22 03 30**±2.3	**56.24S**±.062	**27.2W**±.15	**83**±21	**4.9b**	**68 17-159**
BJI	VIII	10 22 03 31.0	56.17S	27.68W	92		**¶97viii1464**
NEIC	VIII	10 22 03 31.4	56.23S	27.19W	94	5.3b	
HRVD	VIII	10 22 03 32.6±.9	56.51S±.09	27.20W±.15	76±6.8		
EIDC	VIII	10 22 03 33.5	56.3S	27.4W	99	4.5b	
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}1.87±.60; $M_{\theta\theta}$3.14±1.01; $M_{\phi\phi}$−5.01±.66; $M_{r\theta}$−5.66±.50; $M_{r\phi}$−0.69±.74; $M_{\theta\phi}$3.95±.76. Principal Axes: T 9.05,Plg38°,Azm162°; N −2.08,Plg49°,Azm316°; P −6.96,Plg13°,Azm62°. Best double couple: $M_0$8.0×10^{16}Nm, NP1: ϕ_S195°,δ53°,λ160°. NP2:ϕ_S297°,δ74°,λ38°.						
ISC	**VIII**	**11 01 53 06.3**±.49	**59.76S**±.082	**26.2W**±.23	**33**	**4.4b,**3.6s	**29 13-159**
NEIC	VIII	11 01 53 06.5	59.60S	26.28W	33	4.3b	**¶97viii1491**
EIDC	VIII	11 01 53 11.1	59.6S	26.3W	55	4.2b,3.7s	
NEIC	Single network solution.						
EIDC	**VIII**	**12 09 38 02.7**	**55.5S**	**25.4W**	**0**	**4.3b**	**47-150**
							¶97viii1715
ISC	**VIII**	**13 22 51 54.9**±.83	**58.1S**±.17	**25.2W**±.22	**33**	**4.1b**	**13 33-153**
NEIC	VIII	13 22 51 54.7	58.14S	25.22W	33		**¶97viii1971**
EIDC	VIII	13 22 51 58.0	58.1S	25.1W	44	3.9b	
NEIC	Single network solution.						
EIDC	**VIII**	**16 09 59 47.3**	**56.4S**	**29.4W**	**289**	3.6b	**46-150**
							¶97viii2346
ISC	**VIII**	**18 18 57 14**±3.1	**56.21S**±.090	**27.2W**±.29	**102**±28	**4.6b**	**30 17-151**
NEIC	VIII	18 18 57 13.6	56.23S	27.06W	100	4.8b	**¶97viii2706**
EIDC	VIII	18 18 57 13.9	56.2S	27.2W	90	4.4b	
NEIC	Less reliable solution.						
ISC	**VIII**	**20 05 48 21.4**±.91	**57.7S**±.18	**26.5W**±.36	**100**	**4.0b**	**9 33-151**
EIDC	VIII	20 05 48 11.5	57.7S	26.4W	0	4.1b,3.4s	**¶97viii2917**
NEIC	VIII	20 05 48 21.3	57.72S	26.60W	100		
NEIC	Poor solution.						

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 26 03 27 42.1**±.32	**58.29S**±.061	**25.2W**±.16	**33**	**5.1b,5.2s**	**79**	**14-159**
EIDC	VIII 26 03 27 38.0	58.4S	25.3W	0	5.1b,5.1s		¶97viii3777
BJI	VIII 26 03 27 41.7	58.30S	25.30W	33	5.5s		
NEIC	VIII 26 03 27 41.7	58.29S	25.33W	33	5.4b,4.7s		
HRVD	VIII 26 03 27 46.9±.2	58.44S±.03	25.05W±.06	37±2.3			
NEIC	Mw5.6(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c74; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}0.97±.04; $M_{\theta\theta}$−0.40±.06; $M_{\phi\phi}$−0.57±.06; $M_{r\theta}$−2.19±.14; $M_{r\phi}$0.39±.09; $M_{\theta\phi}$1.33±.06. Principal Axes: T 2.65,Plg50°,Azm165°; N 0.14, Plg26°,Azm291°; P −2.79,Plg28°,Azm36°. Best double couple: $M_0$2.7×10^{17}Nm, NP1: ϕ_S172°,δ29°,λ154°. NP2:ϕ_S285°,δ78°,λ64°.						
ISC	**VIII 26 03 55 14.9**±.72	**58.3S**±.13	**25.3W**±.25	**33**	**4.3b**	**24**	**14-159**
EIDC	VIII 26 03 55 11.2	58.4S	25.2W	0	4.3b		¶97viii3781
NEIC	VIII 26 03 55 14.4	58.37S	25.30W	33	5.0b		
NEIC	Less reliable solution.						
ISC	**VIII 28 12 41 20.0**±.97	**60.9S**±.28	**30.2W**±.75	**33**	**4.1b**	**8**	**13-152**
EIDC	VIII 28 12 41 16.5	61.0S	30.0W	0	4.1b		¶97viii4133
ISC	**IX 04 18 48 46.0**±.90	**55.5S**±.24	**27.0W**±.31	**33**	**4.2b,3.6s**	**12**	**32-150**
EIDC	IX 04 18 48 42.8	55.5S	27.0W	0	4.3b,3.6s		¶97ix0621
NEIC	IX 04 18 48 45.8	55.45S	26.94W	33	3.7b		
NEIC	Less reliable solution.						
ISC	**IX 05 03 23 12**±6.5	**56.23S**±.067	**27.7W**±.15	**11**±39	**5.0b,5.3s**	**92**	**17-162**
NEIC	IX 05 03 23 14.4	56.26S	27.82W	33	5.2b,5.0s		¶97ix0679
BJI	IX 05 03 23 16.4	56.30S	27.80W	33	5.8s		
HRVD	IX 05 03 23 17.4±.2	56.59S±.02	27.60W±.05	15			
EIDC	IX 05 03 23 18.5	56.2S	27.9W	52	4.5b,5.2s		
NEIC	Mw5.4(HRV), Less reliable solution.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c75; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.70±.03; $M_{\theta\theta}$−0.74±.04; $M_{\phi\phi}$−0.96±.04; $M_{r\theta}$−0.77±.12; $M_{r\phi}$0.35±.15; $M_{\theta\phi}$0.13±.04. Principal Axes: T 1.95,Plg73°,Azm201°; N −0.76, Plg8°,Azm317°; P −1.19,Plg15°,Azm49°. Best double couple: $M_0$1.6×10^{17}Nm, NP1:ϕ_S150°, δ31°,λ105°. NP2:ϕ_S313°,δ60°,λ81°.						
ISC	**IX 06 00 49 45.3**±.66	**56.0S**±.11	**26.5W**±.28	**10**	**4.4b**,3.9s	**17**	**17-158**
EIDC	IX 06 00 49 44.9	56.1S	26.5W	0	4.4b,3.7s		¶97ix0825
NEIC	IX 06 00 49 45.4	56.03S	26.45W	10	4.5b		
NEIC	Less reliable solution.						
ISC	**IX 18 18 19 41.2**±.25	**60.72S**±.059	**24.5W**±.12	**33**	**5.3b,5.3s**	**154**	**12-177**
EIDC	IX 18 18 19 38.1	60.8S	24.5W	0	5.3b,5.4s		¶97ix2695
MOS	IX 18 18 19 41.1	61.2S	24.9W	33	5.7b,5.3s		
BJI	IX 18 18 19 41.3	60.70S	24.50W	33	5.8s		
NEIC	IX 18 18 19 41.3	60.72S	24.48W	33	5.4b,5.1s		
HRVD	IX 18 18 19 42.9±.2	61.29S±.02	23.83W±.05	15			
NEIC	Mw5.7(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c88; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.67±.06; $M_{\theta\theta}$2.79±.08; $M_{\phi\phi}$−1.12±.08; $M_{r\theta}$0.94±.23; $M_{r\phi}$0.26±.22; $M_{\theta\phi}$3.19±.07. Principal Axes: T 4.72,Plg8°,Azm331°; N −1.76, Plg76°,Azm96°; P −2.96,Plg11°,Azm239°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S15°, δ76°,λ−178°. NP2:ϕ_S285°,δ88°,λ−14°.						
ISC	**IX 23 22 22 48.4**±.60	**55.6S**±.11	**26.9W**±.26	**33**	**4.5b**	**20**	**35-150**
EIDC	IX 23 22 22 45.0	55.7S	26.9W	0	4.5b		¶97ix3489
NEIC	IX 23 22 22 48.3	55.61S	26.85W	33	4.6b		
NEIC	Less reliable solution.						
ISC	**IX 23 22 25 28.3**±.80	**55.7S**±.17	**26.9W**±.33	**33**	**4.3b**,3.7s	**9**	**37-150**
EIDC	IX 23 22 25 25.1	55.7S	26.9W	0	4.3b,3.7s		¶97ix3490
NEIC	IX 23 22 25 27.9	55.64S	26.80W	33	3.9b		
NEIC	Less reliable solution.						
ISC	**IX 24 17 57 50**±1.1	**57.3S**±.15	**25.5W**±.64	**33**	**4.3b**	**11**	**33-152**
EIDC	IX 24 17 57 45.7	57.4S	25.4W	0	4.3b,3.2s		¶97ix3612
NEIC	IX 24 17 57 49.1	57.31S	25.44W	33	4.2b		
NEIC	Poor solution.						
ISC	**X 05 18 04 31**±1.4	**59.74S**±.033	**29.44W**±.083	**274**±13	**5.8b**	**616**	**14-177**
BJI	X 05 18 04 28.0	59.70S	29.20W	274			¶97x0901
NEIC	X 05 18 04 30.0	59.74S	29.20W	274	6.0b		
MOS	X 05 18 04 31.0	59.6S	29.1W	274	6.1b		
EIDC	X 05 18 04 32.3	59.7S	29.3W	283	5.8b		
HRVD	X 05 18 04 38.1±.1	59.90S±.01	28.92W±.01	285±.4			
NEIC	Mw6.3(GS), Me6.0(GS).						
NEIC	Mw 6.3 (HRV). Mo=4.9×10^{18}Nm (PPT).						
NEIC	Radiated energy from the P−wave first−motion solution: 1.9±0.4×10^{13}Nm/10						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S160°,δ50°,λ−90°. NP2:ϕ_S340°,δ40°,λ−90°. Principal axes: T Plg5°,Azm250°; P Plg85°,Azm70°. Depth from broadband displacement seismograms.						
NEIC	Moment tensor solution: s13, scale 10^{18}Nm; M_{rr}−3.52; $M_{\theta\theta}$0.78; $M_{\phi\phi}$2.76; $M_{r\theta}$−0.75; $M_{r\phi}$1.37; $M_{\theta\phi}$−0.25. Depth 269km; Principal axes: T 3.11,Plg13°,Azm260°; N 0.79,Plg6°, Azm169°; P −3.91,Plg76°,Azm53°. Best double couple: $M_0$3.5×10^{18}Nm; NP1:ϕ_S358°,δ33°, λ−79°. NP2:ϕ_S165°,δ58°,λ−97°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s64,c159; Mantle waves: s63,c117; Half duration: 3s4. Moment tensor: Scale 10^{18}Nm; M_{rr}−3.48±.02; $M_{\theta\theta}$1.02±.03; $M_{\phi\phi}$2.46±.03; $M_{r\theta}$−1.24±.02; $M_{r\phi}$0.88±.02; $M_{\theta\phi}$−0.37±.03. Principal Axes: T 2.78,Plg11°,Azm250°; N 1.11,Plg10°,Azm158°; P −3.89,Plg75°,Azm27°. Best double couple: $M_0$3.3×10^{18}Nm, NP1:ϕ_S353°,δ35°,λ−72°. NP2:ϕ_S152°,δ57°,λ−102°.						
ISC	**X 22 08 31 41**±3.4	**57.92S**±.080	**25.5W**±.21	**37**±30	**4.8b**	**59**	**15-158**
EIDC	X 22 08 31 36.7	58.1S	25.5W	0	4.7b		¶97x3777
NEIC	X 22 08 31 40.4	57.95S	25.50W	33	4.8b		
BJI	X 22 08 31 42.4	58.00S	25.50W	33			
ISC	**XI 12 16 03 47**±1.0	**55.3S**±.18	**28.1W**±.25	**33**	**4.7b**,3.7s	**24**	**41-159**
EIDC	XI 12 16 03 43.9	55.4S	28.3W	0	4.5b,3.9s		¶97xi2008
NEIC	XI 12 16 03 46.9	55.36S	28.25W	33	4.5b		
NEIC	Less reliable solution.						
ISC	**XI 18 10 41 53**±5.3	**60.1S**±.20	**26.4W**±.27	**44**±52	**4.2b**,3.3s	**17**	**13-153**
NEIC	XI 18 10 42 04.7	59.78S	26.63W	150			¶97xi2944
EIDC	XI 18 10 42 13.4	59.8S	26.6W	215	3.7b,3.3s		
NEIC	Poor solution.						
ISC	**XI 19 09 03 29.3**±.63	**58.5S**±.10	**25.3W**±.22	**33**	**4.3b,3.8s**	**18**	**14-153**
EIDC	XI 19 09 03 25.9	58.5S	25.4W	0	4.3b,3.7s		¶97xi3179
NEIC	XI 19 09 03 29.2	58.52S	25.32W	33			
NEIC	Less reliable solution.						
ISC	**XI 20 06 08 11.0**±.28	**59.07S**±.059	**25.6W**±.12	**33**	**5.0b,5.2s**	**142**	**14-159**
BJI	XI 20 06 08 08.1	58.60S	26.25W	37	5.8s		¶97xi3406
NEIC	XI 20 06 08 10.3	59.06S	25.51W	33	5.2b,5.2s		
EIDC	XI 20 06 08 11.1	59.0S	25.7W	22	4.9b		
HRVD	XI 20 06 08 17.0±.3	59.32S±.04	25.14W±.08	27±3.0			
NEIC	Mw5.5(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c52; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}2.24±.08; $M_{\theta\theta}$−0.99±.11; $M_{\phi\phi}$−1.25±.09; $M_{r\theta}$0.29±.14; $M_{r\phi}$1.19±.29; $M_{\theta\phi}$−0.57±.07. Principal Axes: T 2.61,Plg73°,Azm276°; N −0.60, Plg7°,Azm31°; P −2.01,Plg15°,Azm123°. Best double couple: $M_0$2.3×10^{17}Nm, NP1:ϕ_S223°, δ30°,λ105°. NP2:ϕ_S27°,δ61°,λ82°.						
ISC	**XI 20 16 43 00**±2.7	**56.08S**±.080	**27.4W**±.23	**95**±24	**4.7b**	**42**	**17-151**
BJI	XI 20 16 43 00.2	56.10S	27.40W	100			¶97xi3497
NEIC	XI 20 16 43 00.2	56.11S	27.48W	100	4.8b		
EIDC	XI 20 16 43 03.8	56.1S	27.4W	117	4.4b		
ISC	**XI 21 21 32 00.5**±.52	**59.16S**±.080	**25.8W**±.27	**33**	**4.3b**	**27**	**14-153**
NEIC	XI 21 21 32 00.2	59.19S	25.92W	33	4.7b		¶97xi3747
EIDC	XI 21 21 32 09.8	59.2S	26.0W	101	4.1b		
NEIC	Less reliable solution.						
ISC	**XI 22 20 56 44.4**±.80	**59.4S**±.15	**25.7W**±.36	**33**	**4.3b**,3.5s	**13**	**13-153**
NEIC	XI 22 20 56 44.1	59.40S	25.78W	33			¶97xi3961
EIDC	XI 22 20 56 51.9	59.4S	25.9W	84	4.0b,3.5s		
NEIC	Less reliable solution.						
ISC	**XI 24 04 37 04.7**±.56	**58.79S**±.094	**25.3W**±.29	**33**	**4.3b**,3.5s	**27**	**14-158**
NEIC	XI 24 04 37 04.2	58.79S	25.40W	33	4.3b		¶97xi4266
EIDC	XI 24 04 37 11.4	58.9S	25.5W	82	4.0b,3.5s		
NEIC	Less reliable solution.						
EIDC	**XI 26 08 43 10.3**	**55.7S**	**26.7W**	**0**	**4.2b**		¶97xi4657
EIDC	**XII 03 23 43 02.3**	**55.8S**	**28.2W**	**167**±97.8	3.9b		**47-150**
							¶97xii0519
EIDC	Origin time error = 11.03Error ellipse is semi−major=38.9km semi−minor=30.4km azimuth=62						
ISC	**XII 08 13 22 55.8**±.63	**58.79S**±.072	**25.1W**±.26	**33**	**4.3b,4.2s**	**31**	**14-153**
EIDC	XII 08 13 22 52.8±.67	58.8S	25.2W	0	4.4b,4.0s		¶97xii1933
BJI	XII 08 13 22 55.9	58.80S	25.00W	33	5.8s		
NEIC	XII 08 13 22 55.9	58.81S	25.03W	33	4.4b		
EIDC	Error ellipse is semi−major=26.0km semi−minor=22.2km azimuth=6						
ISC	**XII 14 02 39 18.0**±.29	**59.56S**±.054	**26.2W**±.13	**33**	**4.9b,5.3s**	**137**	**13-159**
BJI	XII 14 02 39 17.4	59.60S	26.20W	33	5.8s		¶97xii3068
NEIC	XII 14 02 39 17.4	59.57S	26.19W	33	5.0b,5.3s		
HRVD	XII 14 02 39 25.8±.2	60.04S±.02	25.72W±.04	33±1.6			
EIDC	XII 14 02 39 27.6±5.03	59.6S	26.5W	109±43.9	4.6b,5.1s		
NEIC	Mw5.7(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c86; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}2.86±.06; $M_{\theta\theta}$−0.21±.07; $M_{\phi\phi}$−2.65±.08; $M_{r\theta}$−0.91±.13; $M_{r\phi}$2.67±.19; $M_{\theta\phi}$−1.58±.07. Principal Axes: T 4.40,Plg60°,Azm232°; N −0.33,Plg23°,Azm10°; P −4.08,Plg18°,Azm108°. Best double couple: $M_0$4.2×10^{17}Nm, NP1: ϕ_S230°,δ34°,λ135°. NP2:ϕ_S0°,δ67°,λ65°.						
EIDC	Error ellipse is semi−major=19.4km semi−minor=16.1km azimuth=48						
ISC	**XII 14 03 15 12.6**±.93	**60.4S**±.18	**29.2W**±.41	**300**	**3.6b**	**8**	**32-152**
EIDC	XII 14 03 15 22.6±8.65	60.5S	29.5W	391±92.7	3.3b		¶97xii3073
EIDC	Error ellipse is semi−major=34.8km semi−minor=26.3km azimuth=82						
ISC	**XII 14 05 02 44.0**±.90	**56.1S**±.16	**27.3W**±.40	**33**	**4.2b**	**10**	**40-150**
NEIC	XII 14 05 02 43.7	56.05S	27.49W	33	4.5b		¶97xii3090
EIDC	XII 14 05 02 53.1±8.69	56.1S	27.6W	103±78.4	3.8b		
NEIC	Poor solution.						
EIDC	Error ellipse is semi−major=31.8km semi−minor=19.8km azimuth=64						
ISC	**XII 14 08 59 10**±3.7	**55.80S**±.093	**26.8W**±.18	**53**±36	**4.7b,4.0s**	**53**	**17-159**
BJI	XII 14 08 59 07.3	55.80S	26.90W	33			¶97xii3121
NEIC	XII 14 08 59 07.3	55.80S	26.88W	33	5.0b		
EIDC	XII 14 08 59 14.2±.39	55.9S	26.9W	77±3.0	4.4b,4.0s		
EIDC	Error ellipse is semi−major=17.6km semi−minor=12.9km azimuth=42						
ISC	**XII 17 15 09 36**±3.5	**58.92S**±.083	**25.6W**±.24	**39**±32	**4.5b,3.9s**	**40**	**14-158**
NEIC	XII 17 15 09 36.9	58.96S	25.68W	50	4.6b		¶97xii3619
EIDC	XII 17 15 09 41.2±5.64	59.0S	25.7W	69±48.8	4.2b,3.9s		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=22.5km semi−minor=17.0km azimuth=59						
ISC	**XII 17 18 30 00.2**±.83	**58.9S**±.14	**25.4W**±.61	**33**	**4.4b**	**13**	**14-153**
EIDC	XII 17 18 29 55.9±.84	59.1S	25.7W	0	4.6b		¶97xii3643
NEIC	XII 17 18 29 58.9	58.83S	25.98W	33	4.5b		
EIDC	Error ellipse is semi−major=49.3km semi−minor=33.0km azimuth=69						
NEIC	Poor solution.						
ISC	**XII 19 17 30 16.1**±.79	**57.3S**±.15	**25.7W**±.27	**33**	**4.3b**,3.7s	**15**	**33-152**
NEIC	XII 19 17 30 16.0	57.36S	25.71W	33			¶97xii4004
EIDC	XII 19 17 30 19.7±6.39	57.3S	25.7W	49±59.1	4.1b,3.7s		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=24.6km semi−minor=22.3km azimuth=26						
EIDC	**XII 21 13 00 08.7**±.60	**55.8S**	**24.8W**	**42**±5.8	**4.2b**,4.5s		**45-151**
							¶97xii4255
EIDC	Error ellipse is semi−major=39.8km semi−minor=24.6km azimuth=103						
ISC	**XII 21 13 22 56.7**±.69	**55.5S**±.12	**26.5W**±.30	**33**	**4.2b**,4.0s	**11**	**35-150**
NEIC	XII 21 13 22 56.5	55.55S	26.47W	33	4.8b		¶97xii4256
EIDC	XII 21 13 22 59.9±.64	55.5S	26.4W	42±5.9	4.2b,4.0s		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=28.3km semi−minor=19.8km azimuth=71						
ISC	**XII 22 06 15 44**±2.4	**59.19S**±.082	**26.3W**±.12	**89**±24	**4.8b**	**90**	**14-159**
BJI	XII 22 06 15 45.0	59.20S	26.20W	102			¶97xii4365
NEIC	XII 22 06 15 45.0	59.20S	26.18W	102	5.1b		
EIDC	XII 22 06 15 46.9±.40	59.2S	26.4W	105±3.2	4.7b		
EIDC	Error ellipse is semi−major=26.2km semi−minor=15.2km azimuth=86						
ISC	**XII 25 20 49 16.6**±.44	**59.31S**±.083	**25.1W**±.17	**33**	**4.5b,3.8s**	**85**	**13-159**
BJI	XII 25 20 49 19.1	59.20S	25.20W	50			¶97xii4988
NEIC	XII 25 20 49 19.1	59.21S	25.16W	50	4.7b		
EIDC	XII 25 20 49 21.2±.91	59.3S	25.3W	57±7.7	4.3b,3.9s		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=20.6km semi−minor=16.9km azimuth=64						
ISC	**XII 27 07 47 54.9**±.56	**58.88S**±.098	**25.6W**±.24	**33**	**4.2b,3.9s**	**25**	**31-153**
EIDC	XII 27 07 47 51.1±.54	58.9S	25.6W	0	4.3b,3.9s		¶97xii5268
NEIC	XII 27 07 47 54.4	58.89S	25.63W	33			
EIDC	Error ellipse is semi−major=21.5km semi−minor=17.8km azimuth=53						
NEIC	Less reliable solution.						
ISC	**XII 27 15 10 46.8**±.69	**56.2S**±.14	**26.4W**±.34	**33**	**4.3b**,3.9s	**18**	**37-151**
EIDC	XII 27 15 10 43.2±.59	56.2S	26.4W	0	4.4b,3.7s		¶97xii5309
NEIC	XII 27 15 10 46.5	56.24S	26.47W	33			
EIDC	Error ellipse is semi−major=28.7km semi−minor=18.3km azimuth=61						
NEIC	Less reliable solution.						
ISC	**XII 31 22 12 20.7**±.65	**59.1S**±.11	**25.4W**±.34	**33**	**4.1b**,3.6s	**19**	**14-153**
EIDC	XII 31 22 12 17.5±.85	59.1S	25.4W	0	4.2b,3.6s		¶97xii5983
NEIC	XII 31 22 12 20.7	59.13S	25.43W	33			
EIDC	Error ellipse is semi−major=37.5km semi−minor=26.6km azimuth=11						
NEIC	Less reliable solution.						

(156) South-Western Atlantic Ocean.

ISC	**VII 04 09 54 03.5**±.24	**58.15S**±.049	**11.22W**±.090	**10**	**5.5b,5.2s**	**177**	**13-161**
BJI	VII 04 09 54 00.6	58.18S	10.93W	6	5.4s		¶97vii0534
NEIC	VII 04 09 54 02.7	58.06S	11.18W	10	5.5b,5.2s		
EIDC	VII 04 09 54 08.0	58.1S	11.4W	36	5.0b,5.1s		
HRVD	VII 04 09 54 09.2±.2	58.39S±.02	10.95W±.04	15			
NEIC	Mw5.5(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c85; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}0.43±.03; $M_{\theta\theta}$−0.91±.04; $M_{\phi\phi}$0.48±.04; $M_{r\theta}$0.00±.00; $M_{r\phi}$0.00±.00; $M_{\theta\phi}$1.55±.04. Principal Axes: T 1.48,Plg0°,Azm123°; N 0.43,							

Plg90°,Azm180°; P −1.91,Plg0°,Azm33°. Best double couple: $M_0$1.7×10^{17}Nm, NP1:ϕ_S168°, δ90°,λ−180°. NP2:ϕ_S258°,δ90°,λ0°.

ISC	**VII**	**08 09 48 18.2**±.69	**58.09S**±.080	**9.2W**±.27	**10**	**4.1b,3.5s**	**16 13-145**
NEIC	VII	08 09 48 18.5	57.91S	9.25W	10	4.5b	**¶97vii1170**
EIDC	VII	08 09 48 20.5	57.4S	9.4W	0	4.0b,3.5s	
NEIC	Less reliable solution.						
ISC	**IX**	**11 00 47 25.9**±.34	**59.17S**±.059	**16.6W**±.12	**10**	**4.9b,4.9s**	**61 12-157**
NEIC	IX	11 00 47 26.5	59.05S	16.67W	10	5.1b,4.7s	**¶97ix1603**
BJI	IX	11 00 47 30.5	59.10S	16.70W	10		
EIDC	IX	11 00 47 31.0	59.4S	17.1W	23	4.8b	
HRVD	IX	11 00 47 31.9±.3	59.38S±.03	16.65W±.06	15		
NEIC	Mw5.5(HRV).						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c78; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.02±.05; $M_{\theta\theta}$−0.29±.07; $M_{\phi\phi}$0.31±.06; $M_{r\theta}$−0.66±.19; $M_{r\phi}$−0.38±.16; $M_{\theta\phi}$2.21±.05. Principal Axes: T 2.45,Plg16°,Azm132°; N −0.21,Plg73°,Azm289°; P −2.24,Plg7°,Azm40°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S175°,δ74°,λ173°. NP2:ϕ_S267°,δ83°,λ16°.

ISC	**XII**	**29 20 21 10.0**±.97	**59.5S**±.15	**21.1W**±.57	**33**	**4.0b**	**7 35-141**
EIDC	XII	29 20 21 06.8±1.16	59.6S	21.2W	0	4.0b	**¶97xii5632**

EIDC Error ellipse is semi−major=48.5km semi−minor=23.8km azimuth=82

(157) Weddell Sea.

ISC	**XII**	**25 22 13 07**±1.6	**71.2S**±.28	**22.8W**±.44	**33**	**3.9b**	**9 4-147**
EIDC	XII	25 22 13 02.0±1.22	71.1S	24.2W	0	3.9b	**¶97xii4992**

EIDC Error ellipse is semi−major=70.5km semi−minor=37.6km azimuth=89

SEISMIC REGION 11.
NEW ZEALAND REGION.

(158) Off west coast of North Island, N.Z.

ISC	**IX**	**26 13 07 00**±1.2	**39.6S**±.11	**173.9E**±.20	**193**		**17 1-4**
WEL	IX	26 13 07 00.7	39.60S	174.01E	193	3.7L	**¶97ix4008**
ISC	**X**	**03 01 41 42.2**±.76	**39.94S**±.073	**173.9E**±.12	**137**		**20 1-4**
WEL	X	03 01 41 43.3	39.95S	174.00E	137	4.0L	**¶97x0367**
NEIC	X	03 01 41 43.5	39.94S	174.04E	130		
NEIC	Single network solution.						

(159) North Island, New Zealand.

ISC	**VII**	**02 01 56 36**±1.3	**38.7S**±.14	**175.3E**±.18	**184**		**17 0-7**
WEL	VII	02 01 56 35.5	38.63S	175.69E	184	3.9L	**¶97vii0164**
ISC	**VII**	**03 02 13 29**±1.6	**39.00S**±.085	**175.6E**±.16	**136**±18		**22 0-5**
WEL	VII	03 02 13 31.9	38.98S	175.60E	116	4.1L	**¶97vii0338**
ISC	**VII**	**06 20 33 54.1**±.66	**38.85S**±.050	**176.03E**±.060	**10**±6.8		**17 0-3**
WEL	VII	06 20 33 53.8	38.83S	176.03E	5	4.1L	**¶97vii0933**
ISC	**VII**	**07 19 23 25**±1.4	**37.2S**±.13	**176.9E**±.21	**323**±12	3.1b	**23 1-41**
WEL	VII	07 19 23 27.6	37.02S	176.82E	285	4.2L	**¶97vii1079**
ISC	**VII**	**08 00 31 30.4**±.63	**38.09S**±.088	**176.9E**±.11	**152**		**20 0-4**
WEL	VII	08 00 31 30.4	37.88S	176.81E	152	4.3L	**¶97vii1108**
WEL	**VII**	**09 07 22 08.1**	**38.15S**	**175.97E**	**113**	**3.7L**	**¶97vii1294**
ISC	**VII**	**11 15 05 18**±1.5	**39.1S**±.18	**175.0E**±.34	**224**		**11 0-3**
WEL	VII	11 15 05 18.6	39.14S	175.12E	224	3.7L	**¶97vii1698**
ISC	**VII**	**12 22 18 02.4**±.72	**38.34S**±.095	**176.1E**±.15	**198**		**22 0-6**
WEL	VII	12 22 18 02.4	38.13S	176.09E	198	4.0L	**¶97vii1876**
ISC	**VII**	**13 04 47 34.4**±.91	**38.5S**±.11	**176.0E**±.17	**163**		**17 1-6**
WEL	VII	13 04 47 35.0	38.23S	176.06E	163	3.8L	**¶97vii1923**
ISC	**VII**	**13 09 03 46**±7.2	**37.8S**±.51	**176.0E**±.33	**324**±46		**17 1-6**
WEL	VII	13 09 03 48.3	37.85S	176.08E	310	4.0L	**¶97vii1954**
ISC	**VII**	**13 23 00 01**±1.1	**38.61S**±.099	**175.6E**±.31	**168**		**14 1-6**
WEL	VII	13 23 00 00.7	38.52S	175.89E	168	3.9L	**¶97vii2036**
ISC	**VII**	**16 23 15 54**±3.6	**38.2S**±.39	**175.8E**±.45	**283**		**11 1-6**
WEL	VII	16 23 15 53.7	38.17S	175.72E	283	3.8L	**¶97vii2513**
ISC	**VII**	**17 17 56 12.9**±.92	**38.03S**±.068	**177.9E**±.12	**118**±5.9	**4.4b**	**63 0-156**
NEIC	VII	17 17 56 08.1	37.46S	177.41E	33	4.4b	**¶97vii2620**
WEL	VII	17 17 56 08.7	37.08S	177.85E	62	5.0L	
EIDC	VII	17 17 56 15.3	38.2S	177.9E	134	4.1b	
NEIC	Less reliable solution.						
WEL	Felt Whakatane.						
ISC	**VII**	**18 13 23 18**±2.3	**39.0S**±.14	**174.8E**±.20	**256**±24		**21 1-7**
WEL	VII	18 13 23 24.2	39.10S	174.90E	210	4.0L	**¶97vii2748**
ISC	**VII**	**20 17 05 52.0**±.40	**39.28S**±.050	**174.90E**±.097	**159**±6.0	**4.1b**	**45 1-151**
NEIC	VII	20 17 05 42.0	38.45S	175.99E	100	4.5b	**¶97vii3122**
WEL	VII	20 17 05 53.0	39.23S	174.99E	158	5.0L	
EIDC	VII	20 17 05 53.0	39.1S	174.5E	115	3.7b	
NEIC	Poor solution.						
WEL	Felt I=III MM Marton						
ISC	**VII**	**21 04 44 53**±1.3	**39.53S**±.069	**174.4E**±.11	**164**±14		**28 0-6**
WEL	VII	21 04 44 57.6	39.59S	174.48E	122	4.0L	**¶97vii3193**
ISC	**VII**	**24 07 20 25**±1.6	**38.0S**±.18	**176.0E**±.27	**228**		**10 0-5**
WEL	VII	24 07 20 25.0	38.04S	175.97E	228	3.8L	**¶97vii3640**
ISC	**VII**	**25 12 11 23.1**±.57	**39.02S**±.078	**174.9E**±.11	**229**		**33 1-8**
WEL	VII	25 12 11 24.3	38.89S	174.98E	229	4.4L	**¶97vii3825**
ISC	**VII**	**25 20 07 00.0**±.74	**38.32S**±.073	**177.59E**±.096	**60**		**23 0-7**
WEL	VII	25 20 07 00.7	37.86S	177.38E	60	3.7L	**¶97vii3873**
ISC	**VII**	**26 19 20 55.1**±.73	**38.56S**±.083	**176.0E**±.14	**163**		**22 0-6**
WEL	VII	26 19 20 55.0	38.35S	176.08E	163	3.9L	**¶97vii3998**
ISC	**VII**	**26 20 24 06**±1.9	**37.5S**±.24	**176.7E**±.22	**251**		**21 1-7**
WEL	VII	26 20 24 05.4	37.16S	176.90E	251	4.1L	**¶97vii4007**
ISC	**VII**	**27 02 32 23**±2.9	**38.5S**±.16	**175.9E**±.18	**193**±27		**23 0-3**
WEL	VII	27 02 32 26.0	38.47S	176.00E	166	3.8L	**¶97vii4046**
ISC	**VII**	**27 16 15 55.2**±.77	**38.59S**±.062	**177.05E**±.064	**24**±9.6		**18 1-3**
WEL	VII	27 16 15 54.6	38.58S	177.04E	5	3.7L	**¶97vii4133**
ISC	**VII**	**30 19 12 45.7**±.46	**39.99S**±.035	**175.62E**±.067	**84**±8.3	5.3b	**46 1-153**
WEL	VII	30 19 12 48.0	39.95S	175.66E	61	4.7L	**¶97vii4626**
WEL	Felt central North Island to Levin, maximum intensity I=IV MM						
ISC	**VII**	**31 23 17 51.6**±.45	**38.70S**±.056	**176.40E**±.081	**109**		**29 0-8**
WEL	VII	31 23 17 52.2	38.58S	176.39E	109	4.0L	**¶97vii4800**
ISC	**VIII**	**01 06 15 41**±2.6	**38.7S**±.18	**178.0E**±.23	**42**±28		**9 0-2**
WEL	VIII	01 06 15 40.8	38.80S	178.02E	44	3.8L	**¶97viii0033**
ISC	**VIII**	**02 12 04 23**±3.7	**38.6S**±.22	**175.0E**±.22	**281**±31		**22 1-5**
WEL	VIII	02 12 04 28.4	38.74S	175.22E	236	3.9L	**¶97viii0212**
ISC	**VIII**	**03 23 54 33**±3.2	**37.3S**±.33	**176.0E**±.26	**216**		**13 2-7**
WEL	VIII	03 23 54 35.6	37.52S	176.30E	216	4.0L	**¶97viii0431**
ISC	**VIII**	**04 04 02 31.2**±.46	**38.49S**±.061	**176.30E**±.077	**112**		**31 0-8**
WEL	VIII	04 04 02 31.7	38.34S	176.27E	112	4.3L	**¶97viii0454**
ISC	**VIII**	**04 09 55 16**±1.5	**38.71S**±.084	**175.7E**±.12	**146**±15		**24 0-6**
WEL	VIII	04 09 55 20.8	38.72S	175.85E	105	3.9L	**¶97viii0489**
ISC	**VIII**	**04 23 50 20**±3.2	**38.0S**±.39	**176.1E**±.45	**275**		**9 1-3**
WEL	VIII	04 23 50 20.2	37.98S	176.16E	275	3.7L	**¶97viii0579**
ISC	**VIII**	**05 02 31 31**±1.9	**40.45S**±.054	**176.4E**±.15	**29**±16	3.8b	**29 1-41**
WEL	VIII	05 02 31 32.8	40.43S	176.27E	30	4.0L	**¶97viii0600**
WEL	Felt Dannevirke and Weber.						
ISC	**VIII**	**05 02 42 57**±1.2	**40.43S**±.066	**176.3E**±.18	**20**±13		**18 1-3**
WEL	VIII	05 02 42 58.6	40.44S	176.31E	31	3.8L	**¶97viii0602**
WEL	Felt Dannevirke and Weber.						
ISC	**VIII**	**08 09 49 14**±2.2	**38.8S**±.13	**175.1E**±.17	**271**±20		**27 0-7**
WEL	VIII	08 09 49 20.0	38.82S	175.15E	225	4.2L	**¶97viii1088**
ISC	**VIII**	**08 11 06 25.1**±.58	**37.83S**±.065	**176.4E**±.10	**216**±4.6	**4.1b**	**53 0-72**
EIDC	VIII	08 11 05 18.9	40.0S	177.0W	0	4.2b	**¶97viii1102**
WEL	VIII	08 11 06 24.2	37.52S	176.60E	209	4.9L	
ISC	**VIII**	**08 20 36 08.4**±.64	**38.49S**±.084	**175.8E**±.11	**180**		**28 0-8**
WEL	VIII	08 20 36 08.8	38.30S	175.87E	180	4.5L	**¶97viii1162**
ISC	**VIII**	**09 13 43 50.2**±.45	**38.88S**±.057	**176.44E**±.078	**91**		**23 0-6**
WEL	VIII	09 13 43 51.1	38.78S	176.40E	91	3.9L	**¶97viii1258**
WEL	**VIII**	**09 16 27 43.8**	**37.54S**	**176.72E**	**12**	**3.7L**	**¶97viii1279**
ISC	**VIII**	**09 23 52 05**±1.4	**38.63S**±.077	**176.55E**±.086	**104**±17		**20 0-3**
WEL	VIII	09 23 52 07.3	38.58S	176.55E	76	3.7L	**¶97viii1323**
ISC	**VIII**	**12 02 59 30.1**±.74	**38.2S**±.11	**176.5E**±.13	**167**		**20 0-5**
WEL	VIII	12 02 59 30.0	38.03S	176.54E	167	4.0L	**¶97viii1669**
ISC	**VIII**	**13 06 36 14**±4.3	**38.1S**±.53	**175.7E**±.38	**248**		**10 1-6**
WEL	VIII	13 06 36 14.4	38.00S	175.81E	248	4.0L	**¶97viii1863**
ISC	**VIII**	**13 08 48 47**±4.0	**38.0S**±.22	**175.9E**±.26	**224**±36		**14 0-6**
WEL	VIII	13 08 48 49.6	38.10S	176.01E	200	3.9L	**¶97viii1879**
WEL	**VIII**	**14 13 42 38.6**	**37.02S**	**176.07E**	**172**	**3.8L**	**¶97viii2069**
ISC	**VIII**	**18 09 09 27.3**±.64	**40.83S**±.046	**175.09E**±.078	**40**±16		**21 0-3**
NEIC	VIII	18 09 09 27.3	40.80S	175.09E	33		**¶97viii2651**
WEL	VIII	18 09 09 27.7	40.82S	175.12E	30	3.8L	
NEIC	Single network solution.						
WEL	Felt Wellington.						
ISC	**VIII**	**22 05 29 52**±1.5	**39.6S**±.10	**174.2E**±.17	**226**±17		**25 1-6**
WEL	VIII	22 05 29 56.2	39.61S	174.28E	182	4.2L	**¶97viii3183**
ISC	**VIII**	**23 03 21 53**±4.1	**37.8S**±.44	**176.2E**±.50	**212**		**11 2-5**
WEL	VIII	23 03 21 56.0	38.09S	176.51E	212	3.9L	**¶97viii3332**
ISC	**VIII**	**24 13 41 47**±1.4	**38.5S**±.17	**175.8E**±.19	**204**		**21 0-6**
WEL	VIII	24 13 41 44.4	37.94S	176.11E	204	3.9L	**¶97viii3541**
ISC	**VIII**	**24 17 38 16**±2.2	**38.7S**±.13	**175.1E**±.17	**273**±21		**29 0-5**
WEL	VIII	24 17 38 20.5	38.72S	175.25E	234	4.3L	**¶97viii3568**
ISC	**VIII**	**24 22 48 50**±4.0	**40.9S**±.24	**175.6E**±.22	**12**±18		**7 0-1**
NEIC	VIII	24 22 48 50.0	40.95S	175.56E	10		**¶97viii3602**
NEIC	M_L2.9(WEL), Single network solution.						
ISC	**VIII**	**25 00 54 20**±9.7	**38.0S**±.68	**175.9E**±.51	**289**±63		**11 1-6**
WEL	VIII	25 00 54 23.1	38.06S	175.93E	262	3.8L	**¶97viii3611**
ISC	**VIII**	**25 06 19 31**±3.0	**37.6S**±.15	**175.7E**±.10	**2**±14		**18 0-6**
NEIC	VIII	25 06 19 31.6	37.64S	175.61E	10		**¶97viii3655**
WEL	VIII	25 06 19 32.5	37.65S	175.68E	5	4.3L	
NEIC	Single network solution.						
WEL	Felt Waihi and Te Aroha.						
ISC	**VIII**	**25 10 23 50**±5.9	**37.6S**±.32	**175.7E**±.11	**2**±19		**12 0-2**
WEL	VIII	25 10 23 52.2	37.65S	175.69E	5	3.9L	**¶97viii3680**
ISC	**VIII**	**27 09 27 22**±1.2	**39.35S**±.071	**175.4E**±.11	**141**±15		**22 0-7**
WEL	VIII	27 09 27 25.4	39.36S	175.51E	104	3.7L	**¶97viii3965**
ISC	**VIII**	**27 21 05 55.8**±.42	**40.06S**±.041	**175.73E**±.082	**66**		**28 1-6**
WEL	VIII	27 21 05 57.1	40.01S	175.69E	66	3.7L	**¶97viii4037**
ISC	**VIII**	**30 10 40 24**±2.6	**38.5S**±.15	**175.2E**±.18	**275**±23		**26 0-6**
WEL	VIII	30 10 40 28.7	38.54S	175.31E	240	4.3L	**¶97viii4471**
ISC	**VIII**	**30 12 50 23**±2.1	**38.5S**±.13	**175.6E**±.16	**204**±19		**23 0-6**
WEL	VIII	30 12 50 28.7	38.54S	175.78E	158	3.9L	**¶97viii4481**
ISC	**VIII**	**31 07 09 17**±8.7	**40.8S**±.47	**175.6E**±.69	**33**		**5 0-1**
NEIC	VIII	31 07 09 16.7	40.78S	175.57E	33		**¶97viii4605**
NEIC	M_L2.2(WEL), Poor solution.						
ISC	**IX**	**01 09 03 19**±3.0	**38.8S**±.20	**175.0E**±.29	**244**±26		**17 1-4**
WEL	IX	01 09 03 23.6	38.99S	175.10E	211	3.8L	**¶97ix0079**
ISC	**IX**	**01 22 26 42**±1.7	**37.9S**±.24	**176.8E**±.26	**230**		**13 1-7**
WEL	IX	01 22 26 40.3	37.44S	176.56E	230	4.1L	**¶97ix0173**
ISC	**IX**	**02 01 38 05**±1.6	**38.75S**±.078	**175.9E**±.12	**121**±17		**23 0-6**
WEL	IX	02 01 38 07.6	38.71S	175.98E	94	3.8L	**¶97ix0201**
ISC	**IX**	**05 01 04 29**±1.3	**37.5S**±.44	**176.0E**±.82	**288**±57		**14 2-51**
WEL	IX	05 01 04 35.3	37.48S	175.99E	214	4.1L	**¶97ix0665**
ISC	**IX**	**08 13 31 48.6**±.53	**38.74S**±.071	**175.8E**±.12	**157**		**22 0-6**
WEL	IX	08 13 31 49.2	38.63S	175.82E	157	4.4L	**¶97ix1224**
ISC	**IX**	**09 07 58 29**±1.4	**38.6S**±.10	**175.6E**±.12	**199**±13		**34 0-115**
WEL	IX	09 07 58 33.1	38.63S	175.76E	160	4.9L	**¶97ix1339**
ISC	**IX**	**09 21 32 01**±2.8	**38.2S**±.16	**176.1E**±.15	**199**±24		**23 0-6**
WEL	IX	09 21 32 04.9	38.20S	176.19E	161	4.2L	**¶97ix1443**
ISC	**IX**	**12 20 14 57.1**±.81	**38.02S**±.084	**176.0E**±.16	**295**±9.6	**3.4b**	**32 0-40**
EIDC	IX	12 20 13 26.7	39.7S	174.3W	0	3.9b	**¶97ix1869**
WEL	IX	12 20 14 57.3	37.74S	176.11E	287	5.1L	
ISC	**IX**	**13 12 56 35.0**±.90	**38.1S**±.11	**176.6E**±.12	**148**		**16 1-5**
WEL	IX	13 12 56 34.6	37.73S	176.57E	148	3.7L	**¶97ix1973**
ISC	**IX**	**14 17 00 32.3**±.41	**38.45S**±.051	**175.76E**±.099	**205**±4.9	**4.1b**	**59 0-151**
EIDC	IX	14 17 00 29.8	38.2S	176.0E	171	3.8b	**¶97ix2150**
WEL	IX	14 17 00 32.7	38.28S	175.91E	205	5.2L	
NEIC	IX	14 17 00 34.0	38.49S	175.50E	200	4.2b	
NEIC	Less reliable solution.						
ISC	**IX**	**16 20 20 04**±4.1	**39.1S**±.17	**174.8E**±.32	**252**±34		**16 1-3**
WEL	IX	16 20 20 08.7	39.15S	174.82E	211	3.7L	**¶97ix2424**
ISC	**IX**	**17 10 53 02.1**±.85	**39.10S**±.035	**175.38E**±.080	**8**±8.2		**24 0-4**
NEIC	IX	17 10 53 01.8	39.09S	175.38E	5		**¶97ix2502**
WEL	IX	17 10 53 02.5	39.13S	175.43E	8	3.9L	
NEIC	Single network solution.						
WEL	Felt in National Park						
ISC	**IX**	**18 10 38 31**±2.9	**41.3S**±.13	**175.3E**±.10	**23**±33		**7 0-0**
NEIC	IX	18 10 38 31.1	41.29S	175.30E	20		**¶97ix2647**
NEIC	M_L2.9(WEL), Single network solution.						
ISC	**IX**	**19 14 07 23**±1.4	**38.78S**±.079	**175.7E**±.11	**133**±15		**26 0-5**
WEL	IX	19 14 07 26.9	38.74S	175.91E	94	3.8L	**¶97ix2798**
ISC	**IX**	**20 03 31 51.9**±.84	**38.90S**±.050	**176.56E**±.078	**91**±13		**27 0-6**
WEL	IX	20 03 31 55.0	38.81S	176.55E	51	4.1L	**¶97ix2891**
ISC	**IX**	**20 06 31 53.2**±.77	**38.35S**±.086	**176.5E**±.12	**135**		**17 1-3**
WEL	IX	20 06 31 53.6	38.12S	176.49E	135	3.9L	**¶97ix2910**
ISC	**IX**	**21 17 31 41.9**±.86	**38.5S**±.11	**175.9E**±.15	**189**		**21 0-6**
WEL	IX	21 17 31 42.0	38.30S	175.85E	189	4.1L	**¶97ix3137**
NEIC	Felt I=V−VI MM Blenheim, Seddon, Wellington (after CAW)						
ISC	**IX**	**22 06 43 20**±2.9	**38.0S**±.33	**175.7E**±.39	**246**		**14 1-6**
WEL	IX	22 06 43 20.8	38.01S	175.91E	246	3.9L	**¶97ix3236**
ISC	**IX**	**26 04 32 35**±1.1	**38.7S**±.13	**175.9E**±.24	**168**		**16 0-3**
WEL	IX	26 04 32 36.3	38.59S	175.71E	168	3.7L	**¶97ix3878**

Agency		Origin Time		φ	λ	h	Mag	*n*	Δ-Rng
	mo	d h m s		°	°	km			°
WEL	**IX**	**27 20 52 23.2**		**37.05S**	**176.72E**	**12**	**4.3L**		**¶97ix4456**
ISC	**IX**	**28 23 29 13.8**±.85		**39.10S**±.036	**175.38E**±.073	**8**±7.8		**26**	**0-4**
WEL	IX	28 23 29 14.5		39.10S	175.44E	5	4.6L		**¶97ix4790**
NEIC	IX	28 23 29 14.5		38.99S	175.44E	100			
WEL		Felt I=IV MM Manunui and Waihora Rd							
NEIC		Single network solution.							
NEIC		Felt near Mount Ruapehu.							
ISC	**IX**	**29 03 26 30**±4.9		**38.4S**±.31	**176.0E**±.22	**194**±35		**17**	**0-6**
WEL	IX	29 03 26 34.7		38.39S	176.07E	154	3.8L		**¶97ix4855**
ISC	**IX**	**29 04 24 48**±2.5		**38.5S**±.15	**175.7E**±.15	**204**±22		**24**	**0-6**
WEL	IX	29 04 24 51.2		38.42S	175.75E	170	4.2L		**¶97ix4865**
ISC	**X**	**01 07 57 34.7**±.62		**38.45S**±.081	**176.0E**±.12	**177**		**28**	**0-8**
WEL	X	01 07 57 35.0		38.25S	176.08E	177	4.1L		**¶97x0052**
ISC	**X**	**02 02 24 54.2**±.92		**39.41S**±.049	**176.17E**±.096	**108**±14		**29**	**0-7**
WEL	X	02 02 24 57.4		39.33S	176.17E	76	4.1L		**¶97x0192**
ISC	**X**	**02 09 34 15.1**±.99		**38.8S**±.12	**175.1E**±.15	**218**		**21**	**0-7**
WEL	X	02 09 34 16.6		38.88S	175.13E	218	4.0L		**¶97x0251**
ISC	**X**	**02 22 44 43.1**±.89		**39.96S**±.076	**174.2E**±.15	**108**		**15**	**1-4**
WEL	X	02 22 44 44.7		39.97S	174.40E	108	3.7L		**¶97x0351**
ISC	**X**	**05 03 33 03**±1.3		**40.30S**±.056	**175.8E**±.15	**42**±45		**15**	**0-4**
WEL	X	05 03 33 02.8		40.32S	175.82E	38	3.7L		**¶97x0790**
ISC	**X**	**07 14 42 21.7**±.63		**38.26S**±.081	**176.7E**±.11	**144**		**26**	**0-6**
WEL	X	07 14 42 21.6		37.98S	176.72E	144	3.7L		**¶97x1264**
ISC	**X**	**08 06 12 29**±1.8		**38.5S**±.20	**175.6E**±.23	**190**		**17**	**1-6**
WEL	X	08 06 12 31.2		38.57S	175.99E	190	3.9L		**¶97x1356**
ISC	**X**	**09 10 58 04**±2.6		**38.5S**±.15	**175.7E**±.19	**199**±24		**19**	**0-6**
WEL	X	09 10 58 06.4		38.50S	175.81E	178	4.0L		**¶97x1575**
ISC	**X**	**09 13 12 50**±1.2		**37.4S**±.17	**176.5E**±.19	**221**		**6**	**1-3**
WEL	X	09 13 12 48.5		37.27S	176.34E	221	4.1L		**¶97x1583**
ISC	**X**	**09 13 31 34**±1.1		**38.1S**±.14	**176.5E**±.17	**177**		**11**	**1-3**
WEL	X	09 13 31 34.8		37.89S	176.57E	177	3.8L		**¶97x1586**
ISC	**X**	**09 14 21 23**±1.0		**39.58S**±.084	**174.2E**±.18	**190**		**24**	**1-4**
WEL	X	09 14 21 23.8		39.59S	174.20E	190	4.1L		**¶97x1594**
ISC	**X**	**09 15 09 23**±2.0		**38.1S**±.31	**176.2E**±.32	**224**		**10**	**1-6**
WEL	X	09 15 09 23.4		38.02S	176.12E	224	3.7L		**¶97x1601**
ISC	**X**	**10 02 22 11**±8.5		**39.1S**±.66	**174.9E**±.58	**258**±61		**9**	**1-5**
WEL	X	10 02 22 16.4		39.28S	174.86E	211	3.7L		**¶97x1677**
ISC	**X**	**10 02 46 15**±3.0		**38.5S**±.22	**175.8E**±.28	**208**±31		**16**	**1-6**
WEL	X	10 02 46 19.0		38.54S	176.02E	180	4.0L		**¶97x1681**
ISC	**X**	**10 20 22 38.4**±.62		**38.51S**±.076	**175.8E**±.11	**161**		**29**	**0-6**
WEL	X	10 20 22 38.6		38.35S	175.83E	161	4.2L		**¶97x1796**
ISC	**X**	**12 15 40 42**±3.5		**37.3S**±.29	**176.9E**±.20	**277**±22		**24**	**1-9**
WEL	X	12 15 40 46.5		37.16S	176.75E	216	4.6L		**¶97x2067**
ISC	**X**	**12 21 21 58.2**±.78		**37.43S**±.081	**176.91E**±.096	**147**	**3.6b**	**34**	**0-150**
EIDC	X	12 21 21 35.4		38.1S	177.8E	0	3.7b		**¶97x2106**
WEL	X	12 21 21 57.9		37.18S	177.13E	147	4.5L		
ISC	**X**	**13 05 30 34**±3.8		**37.9S**±.46	**176.6E**±.42	**242**		**10**	**1-7**
WEL	X	13 05 30 33.2		37.78S	176.54E	242	3.8L		**¶97x2166**
ISC	**X**	**14 18 17 47.6**±.83		**39.62S**±.079	**174.2E**±.12	**148**		**20**	**0-6**
WEL	X	14 18 17 49.1		39.62S	174.43E	148	4.0L		**¶97x2465**
ISC	**X**	**16 06 14 04.6**±.48		**39.22S**±.056	**175.1E**±.10	**155**		**34**	**0-7**
WEL	X	16 06 14 05.6		39.19S	175.13E	155	4.3L		**¶97x2800**
ISC	**X**	**17 07 59 38.7**±.65		**38.25S**±.085	**176.0E**±.12	**182**		**29**	**0-6**
WEL	X	17 07 59 38.9		38.08S	176.12E	182	4.3L		**¶97x2943**
ISC	**X**	**17 12 52 35.8**±.87		**38.80S**±.063	**176.69E**±.079	**90**±14		**29**	**0-6**
WEL	X	17 12 52 38.5		38.74S	176.69E	53	3.9L		**¶97x2988**
ISC	**X**	**18 03 36 21**±1.6		**38.7S**±.17	**175.7E**±.31	**171**		**11**	**0-3**
WEL	X	18 03 36 21.6		38.68S	175.77E	171	3.7L		**¶97x3097**
ISC	**X**	**18 13 21 53.4**±.82		**38.44S**±.087	**176.2E**±.16	**168**		**22**	**0-6**
WEL	X	18 13 21 53.0		38.19S	176.27E	168	4.1L		**¶97x3163**
ISC	**X**	**21 13 47 47**±2.6		**38.3S**±.28	**175.8E**±.35	**195**		**12**	**2-4**
WEL	X	21 13 47 47.1		38.34S	175.85E	195	3.7L		**¶97x3657**
ISC	**X**	**22 07 27 08.1**±.66		**38.86S**±.089	**175.2E**±.12	**212**		**32**	**0-8**
WEL	X	22 07 27 09.2		38.76S	175.31E	212	4.7L		**¶97x3766**
ISC	**X**	**22 15 46 13**±2.3		**39.4S**±.11	**174.3E**±.17	**253**±23		**24**	**1-4**
WEL	X	22 15 46 16.3		39.46S	174.30E	222	4.1L		**¶97x3842**
ISC	**X**	**23 23 06 27**±4.2		**38.4S**±.54	**175.6E**±.58	**290**		**11**	**1-6**
WEL	X	23 23 06 28.2		38.44S	175.70E	290	4.0L		**¶97x4079**
WEL	**X**	**24 11 59 00.5**		**37.02S**	**176.75E**	**12**	**3.9L**		**¶97x4161**
ISC	**X**	**25 03 40 17**±5.4		**37.1S**±.54	**176.1E**±.45	**218**		**11**	**2-7**
WEL	X	25 03 40 17.8		36.86S	176.50E	218	3.7L		**¶97x4267**
ISC	**X**	**26 08 58 05**±2.9		**38.0S**±.28	**175.8E**±.30	**175**		**16**	**1-6**
WEL	X	26 08 58 06.9		38.11S	176.00E	175	3.9L		**¶97x4438**
WEL	**X**	**26 09 34 21.3**		**37.28S**	**176.11E**	**12**	**3.8L**		**¶97x4443**
ISC	**X**	**26 13 58 35.9**±.42		**39.60S**±.045	**174.81E**±.085	**104**	3.1b	**35**	**0-40**
WEL	X	26 13 58 37.0		39.60S	174.88E	104	4.3L		**¶97x4472**
ISC	**X**	**26 20 38 10**±2.9		**39.1S**±.16	**174.8E**±.17	**256**±27		**24**	**1-7**
WEL	X	26 20 38 13.9		39.15S	174.91E	222	4.0L		**¶97x4523**
ISC	**X**	**29 13 25 00.7**±.72		**38.2S**±.10	**176.5E**±.14	**191**		**25**	**0-6**
WEL	X	29 13 25 00.2		37.92S	176.41E	191	4.1L		**¶97x4917**
ISC	**X**	**29 14 59 52.2**±.78		**38.38S**±.078	**175.9E**±.14	**248**±8.2	3.5b	**34**	**0-40**
WEL	X	29 14 59 54.6		38.26S	175.89E	226	4.9L		**¶97x4925**
ISC	**X**	**30 06 46 11**±6.5		**37.1S**±.47	**175.4E**±.37	**12**		**10**	**2-6**
WEL	X	30 06 46 18.6		37.46S	175.85E	12	4.1L		**¶97x5008**
ISC	**X**	**30 10 20 20.2**±.75		**38.33S**±.099	**176.3E**±.12	**169**		**26**	**0-6**
WEL	X	30 10 20 19.3		37.97S	176.21E	169	4.2L		**¶97x5023**
ISC	**X**	**31 07 15 19.6**±.44		**38.84S**±.052	**175.58E**±.080	**128**	4.5b	**39**	**0-38**
NEIC	X	31 07 15 20.4		38.80S	175.15E	100	4.6b		**¶97x5150**
WEL	X	31 07 15 20.7		38.73S	175.68E	128	5.1L		
NEIC		Less reliable solution.							
WEL		Felt I=IV MM Patoka and Marton.							
ISC	**X**	**31 22 53 14.9**±.41		**38.24S**±.049	**176.80E**±.078	**151**±4.2	**4.5b**	**80**	**0-168**
NEIC	X	31 22 53 12.9		38.06S	176.89E	127	4.5b		**¶97x5235**
EIDC	X	31 22 53 13.3		38.1S	177.0E	124	4.5b,3.5s		
WEL	X	31 22 53 15.9		38.00S	176.79E	139	5.6L		
NEIC		Less reliable solution.							
ISC	**XI**	**01 03 39 48.0**±.41		**38.87S**±.047	**176.22E**±.071	**85**		**32**	**0-7**
WEL	XI	01 03 39 48.9		38.71S	176.20E	85	3.9L		**¶97xi0025**
ISC	**XI**	**01 13 36 32**±1.1		**39.3S**±.12	**174.5E**±.17	**207**		**19**	**1-5**
WEL	XI	01 13 36 33.0		39.32S	174.68E	207	3.9L		**¶97xi0088**
ISC	**XI**	**04 01 20 36**±2.9		**38.7S**±.36	**175.2E**±.46	**270**		**9**	**1-5**
WEL	XI	04 01 20 36.6		38.75S	175.25E	270	3.7L		**¶97xi0552**
ISC	**XI**	**07 02 26 50**±2.8		**38.6S**±.14	**175.8E**±.16	**186**±25		**22**	**0-6**
WEL	XI	07 02 26 53.9		38.55S	175.90E	152	4.3L		**¶97xi1063**
NEIC	XI	07 02 26 54.9		38.83S	175.88E	150			
NEIC		Poor solution.							
ISC	**XI**	**07 22 30 02.7**±.94		**40.34S**±.036	**176.66E**±.072	**27**±6.4	**5.0b,5.0s**	**106**	**1-166**
WEL	XI	07 22 30 01.6		40.43S	176.84E	16	5.4L		**¶97xi1178**
BJI	XI	07 22 30 03.1		40.49S	176.84E	43	5.6b,5.0s		
NEIC	XI	07 22 30 04.1		40.31S	176.55E	33	5.0b,4.9s		
EIDC	XI	07 22 30 13.4		40.2S	176.3E	96	4.8b,5.0s		
WEL		Felt Hawkes Bay and Manawatu, maximum intensity I=V MM in Napier and Waipawa.							
NEIC		Felt in the Hawkes Bay region.							
ISC	**XI**	**07 23 26 33**±2.2		**40.49S**±.066	**177.0E**±.24	**15**		**21**	**1-5**
WEL	XI	07 23 26 36.0		40.39S	176.79E	15	4.0L		**¶97xi1183**
NEIC	XI	07 23 26 39.2		40.37S	176.51E	33			
NEIC		Single network solution.							
WEL	**XI**	**08 07 58 33.3**		**38.78S**	**175.65E**	**201**	**3.8L**		**¶97xi1233**
ISC	**XI**	**09 03 23 44.2**±.61		**38.24S**±.080	**176.4E**±.10	**163**		**32**	**0-8**
NEIC	XI	09 03 23 39.6		38.03S	176.52E	200			**¶97xi1388**
WEL	XI	09 03 23 44.2		38.04S	176.45E	163	4.4L		
NEIC		Poor solution.							
ISC	**XI**	**10 17 31 47**±6.9		**38.8S**±.35	**175.2E**±.37	**235**±54		**13**	**0-5**
WEL	XI	10 17 31 48.7		38.89S	175.24E	226	3.7L		**¶97xi1649**
ISC	**XI**	**10 20 39 27**±2.0		**38.6S**±.23	**175.0E**±.27	**247**		**13**	**1-5**
WEL	XI	10 20 39 30.6		38.93S	175.17E	247	3.7L		**¶97xi1669**
ISC	**XI**	**11 16 21 31.4**±.64		**38.10S**±.085	**176.6E**±.11	**147**		**23**	**0-6**
WEL	XI	11 16 21 31.6		37.91S	176.62E	147	4.1L		**¶97xi1821**
ISC	**XI**	**13 22 25 44**±1.9		**38.6S**±.13	**175.7E**±.14	**191**±19		**23**	**0-6**
NEIC	XI	13 22 25 42.8		38.49S	175.79E	200			**¶97xi2199**
WEL	XI	13 22 25 48.1		38.61S	175.73E	162	4.2L		
NEIC		Single network solution.							
ISC	**XI**	**15 13 54 12**±2.0		**40.41S**±.067	**176.7E**±.25	**12**		**17**	**1-4**
WEL	XI	15 13 54 12.5		40.44S	176.73E	12	3.8L		**¶97xi2485**
WEL	**XI**	**18 08 45 13.9**		**37.62S**	**176.86E**	**234**	**3.8L**		**¶97xi2933**
ISC	**XI**	**18 12 13 37**±2.5		**37.8S**±.30	**176.1E**±.29	**311**		**16**	**1-6**
WEL	XI	18 12 13 37.7		37.83S	176.31E	311	4.0L		**¶97xi2957**
ISC	**XI**	**18 20 25 08.9**±.66		**38.59S**±.085	**175.7E**±.12	**187**		**29**	**0-7**
NEIC	XI	18 20 25 08.2		38.59S	175.82E	200			**¶97xi3055**
WEL	XI	18 20 25 09.8		38.49S	175.83E	187	4.5L		
NEIC		Poor solution.							
ISC	**XI**	**23 17 06 30.2**±.84		**39.77S**±.046	**176.44E**±.092	**52**±16		**23**	**0-3**
WEL	XI	23 17 06 31.2		39.75S	176.42E	44	3.7L		**¶97xi4157**
ISC	**XI**	**24 21 14 49**±1.8		**39.2S**±.22	**174.7E**±.24	**225**		**12**	**1-5**
WEL	XI	24 21 14 49.9		39.19S	174.75E	225	3.8L		**¶97xi4388**
ISC	**XI**	**26 06 34 26.7**±.73		**38.25S**±.093	**175.8E**±.12	**200**		**28**	**0-6**
WEL	XI	26 06 34 27.3		38.07S	175.96E	196	4.6L		**¶97xi4645**
NEIC	XI	26 06 34 27.7		38.38S	176.01E	200			
NEIC		Single network solution.							
ISC	**XI**	**28 10 02 13.1**±.82		**38.16S**±.087	**177.9E**±.11	**51**		**15**	**0-7**
WEL	XI	28 10 02 13.6		38.10S	177.97E	51	4.0L		**¶97xi5058**
ISC	**XI**	**29 21 47 58**±1.1		**41.2S**±.10	**175.08E**±.080	**27**±12		**10**	**0-1**
NEIC	XI	29 21 47 57.7		41.20S	175.09E	33			**¶97xi5326**
NEIC		M_L3.4(WEL).							
ISC	**XI**	**29 22 08 50.4**±.98		**40.50S**±.054	**176.1E**±.13	**25**±10		**23**	**0-4**
WEL	XI	29 22 08 50.8		40.51S	176.11E	20	4.0L		**¶97xi5330**
ISC	**XI**	**30 16 27 22**±1.1		**37.93S**±.093	**176.3E**±.13	**222**±9.7	3.2b	**33**	**0-40**
WEL	XI	30 16 27 23.9		37.75S	176.31E	202	4.8L		**¶97xi5433**
ISC	**XII**	**01 05 32 15.9**±.77		**39.11S**±.091	**175.2E**±.17	**145**		**15**	**0-5**
WEL	XII	01 05 32 17.0		39.11S	175.22E	145	3.7L		**¶97xii0038**
ISC	**XII**	**01 13 39 28**±3.6		**39.5S**±.12	**174.2E**±.21	**256**±34		**19**	**0-4**
WEL	XII	01 13 39 31.3		39.60S	174.39E	227	3.8L		**¶97xii0092**
ISC	**XII**	**02 22 00 23**±1.2		**39.52S**±.078	**174.3E**±.13	**244**±14		**35**	**0-7**
WEL	XII	02 22 00 26.7		39.57S	174.40E	212	4.8L		**¶97xii0320**
NEIC	XII	02 22 00 27.6		39.61S	174.44E	200			
NEIC		Less reliable solution.							
ISC	**XII**	**04 03 08 43**±9.1		**41.6S**±.60	**175.7E**±.53	**31**±19		**5**	**0-1**
NEIC	XII	04 03 08 42.5		41.58S	175.77E	33			**¶97xii0545**
ISC		Poorly determined							
NEIC		M_L3.1(WEL), Poor solution.							
ISC	**XII**	**06 21 06 28.9**±.89		**38.5S**±.10	**175.7E**±.12	**163**		**24**	**1-6**
WEL	XII	06 21 06 29.8		38.39S	175.77E	163	4.1L		**¶97xii1528**
WEL	**XII**	**08 18 41 32.6**		**37.28S**	**176.57E**	**232**	**3.7L**		**¶97xii1989**
ISC	**XII**	**09 00 25 17**±2.5		**38.5S**±.15	**175.6E**±.14	**247**±23		**25**	**1-6**
WEL	XII	09 00 25 23.2		38.54S	175.69E	189	4.0L		**¶97xii2051**
ISC	**XII**	**09 10 04 45.0**±.73		**38.26S**±.092	**176.2E**±.11	**176**		**25**	**0-6**
NEIC	XII	09 10 04 42.5		38.17S	176.27E	200			**¶97xii2148**
WEL	XII	09 10 04 45.3		38.10S	176.29E	176	4.3L		
NEIC		Poor solution.							
ISC	**XII**	**10 04 25 26**±3.6		**38.7S**±.15	**175.6E**±.17	**179**±34		**20**	**0-5**
NEIC	XII	10 04 25 21.7		38.46S	175.80E	200			**¶97xii2288**
WEL	XII	10 04 25 29.7		38.70S	175.67E	145	3.8L		
NEIC		Poor solution.							
ISC	**XII**	**11 06 11 48**±2.4		**38.6S**±.11	**177.5E**±.22	**33**		**32**	**0-9**
NEIC	XII	11 06 11 47.9		38.59S	177.56E	33			**¶97xii2505**
NEIC		Poor solution.							
ISC	**XII**	**11 09 24 01**±1.4		**38.6S**±.15	**176.1E**±.23	**160**		**14**	**1-6**
WEL	XII	11 09 24 00.0		38.39S	176.17E	160	3.7L		**¶97xii2532**
ISC	**XII**	**13 02 54 07.9**±.78		**39.80S**±.035	**174.61E**±.058	**29**±8.4	**3.3b**	**37**	**0-150**
EIDC	XII	13 02 54 02.8±2.19		39.8S	174.9E	0	3.4b		**¶97xii2865**
NEIC	XII	13 02 54 07.6		39.76S	174.58E	33			
WEL	XII	13 02 54 08.0		39.83S	174.69E	19	4.3L		
EIDC		Error ellipse is semi−major=134.4km semi−minor=40.3km azimuth=27							
NEIC		M_L4.3(WEL). Felt.							
WEL		Felt I=IV MM Wanganui and Marton							
ISC	**XII**	**13 10 14 04.5**±.70		**40.17S**±.044	**176.81E**±.096	**54**±8.4	**3.7b**	**38**	**1-41**
NEIC	XII	13 10 14 04.4		40.11S	176.66E	100			**¶97xii2931**
WEL	XII	13 10 14 05.9		40.13S	176.76E	25	4.4L		
EIDC	XII	13 10 15 05.1±3.43		37.5S	168.5E	40±11.5	3.6b		
NEIC		Single network solution.							
WEL		Felt I=IV MM Waipawa							
EIDC		Error ellipse is semi−major=153.1km semi−minor=44.7km azimuth=30							
ISC	**XII**	**14 13 02 44.2**±.74		**38.74S**±.053	**177.79E**±.093	**56**		**28**	**0-6**
WEL	XII	14 13 02 46.4		38.52S	177.66E	56	4.1L		**¶97xii3152**
ISC	**XII**	**17 23 53 08**±1.2		**38.2S**±.10	**176.3E**±.12	**10**		**5**	**0-1**
NEIC	XII	17 23 53 07.4		38.25S	176.32E	10			**¶97xii3680**
NEIC		Single network solution.							
ISC	**XII**	**18 00 37 58.1**±.81		**38.28S**±.050	**176.26E**±.074	**2**±11		**12**	**0-2**
WEL	XII	18 00 37 58.0		38.24S	176.27E	5	4.0L		**¶97xii3686**
WEL		Felt I=IV MM Rotorua							
ISC	**XII**	**18 07 00 53**±1.2		**38.29S**±.097	**176.3E**±.13	**5**		**4**	**0-1**
NEIC	XII	18 07 00 52.7		38.30S	176.31E	5			**¶97xii3733**
ISC		Poorly determined							
NEIC		Poor solution.							
ISC	**XII**	**19 05 56 05**±8.7		**38.1S**±.62	**176.2E**±.48	**255**±58		**11**	**1-6**
WEL	XII	19 05 56 08.0		38.23S	176.26E	235	3.7L		**¶97xii3902**
ISC	**XII**	**19 17 21 14.6**±.49		**38.73S**±.053	**175.7E**±.10	**167**±6.0	**3.5b**	**59**	**0-156**
EIDC	XII	19 17 20 51.8±1.25		39.0S	176.8E	0	3.8b		**¶97xii4001**
NEIC	XII	19 17 21 15.2		38.70S	175.67E	158	3.6b		
WEL	XII	19 17 21 15.4		38.56S	175.80E	162	5.2L		

EIDC Error ellipse is semi−major=72.0km semi−minor=33.3km azimuth=7
WEL Felt I=IV MM Waitarere Beach
ISC XII 20 15 47 17±7.0 **37.9S**±.75 **176.4E**±.49 **245** **11 1-5**
WEL XII 20 15 47 09.8 37.15S 176.48E 245 3.7L **¶97xii4137**
ISC XII 21 18 23 01±1.9 **38.9S**±.13 **174.9E**±.15 **240**±18 **28 0-7**
WEL XII 21 18 23 05.4 39.08S 174.85E 201 4.5L **¶97xii4290**
ISC XII 22 22 23 39.7±.54 **38.64S**±.072 **175.7E**±.10 **165** **33 0-7**
NEIC XII 22 22 23 36.2 38.50S 175.75E 200 **¶97xii4495**
WEL XII 22 22 23 40.6 38.50S 175.83E 165 4.8L
NEIC Single network solution.
ISC XII 24 01 14 33±1.1 **37.5S**±.10 **176.8E**±.18 **275**±9.6 3.2b **35 1-144**
EIDC XII 24 01 13 59.1±6.71 37.4S 178.0E 0 3.7b **¶97xii4681**
WEL XII 24 01 14 33.2 36.94S 176.91E 242 5.0L
NEIC XII 24 01 14 40.8 38.12S 175.85E 300
EIDC Error ellipse is semi−major=500.2km semi−minor=66.0km azimuth=178
NEIC Less reliable solution.
ISC XII 24 13 34 57±5.3 **38.4S**±.28 **175.6E**±.22 **224**±46 **12 1-6**
WEL XII 24 13 35 00.2 38.56S 175.63E 194 3.7L **¶97xii4763**
WEL XII 28 20 07 48.9 **38.27S** **176.11E** **170** **4.0L** **¶97xii5490**
ISC XII 31 07 44 46±1.3 **38.81S**±.076 **175.69E**±.099 **138**±15 **28 0-4**
WEL XII 31 07 44 49.0 38.77S 175.75E 110 3.9L **¶97xii5856**

(160) Off east coast of North Island, N.Z.

ISC VII 01 18 28 53±3.1 **37.3S**±.39 **177.6E**±.28 **176** **5 1-7**
WEL VII 01 18 28 54.1 37.39S 177.60E 176 3.7L **¶97vii0127**
ISC Poorly determined
ISC VII 01 19 36 28±2.2 **37.3S**±.18 **177.2E**±.19 **5** **4 0-1**
WEL VII 01 19 36 28.6 37.33S 177.13E 5 3.9L **¶97vii0134**
ISC Poorly determined
ISC VII 02 16 45 07±1.5 **37.2S**±.21 **177.3E**±.20 **177** **5 1-4**
WEL VII 02 16 45 06.1 36.91S 177.45E 177 3.9L **¶97vii0268**
WEL VII 05 07 23 50.6 **35.47S** **178.18E** **198** **4.2L** **¶97vii0696**
ISC VII 06 02 18 32±1.7 **37.5S**±.24 **177.1E**±.21 **231** **12 1-7**
WEL VII 06 02 18 30.0 37.04S 177.15E 231 3.9L **¶97vii0825**
WEL VII 08 17 23 14.3 **36.41S** **178.44E** **140** **3.7L** **¶97vii1212**
WEL VII 12 04 19 29.2 **36.63S** **177.49E** **33** **3.9L** **¶97vii1773**
ISC VII 12 14 06 05±2.7 **36.4S**±.18 **178.7E**±.37 **226**±15 3.2b **16 1-42**
WEL VII 12 14 06 03.3 35.94S 178.60E 196 4.2L **¶97vii1825**
ISC VII 13 08 39 48±1.5 **37.4S**±.17 **177.2E**±.19 **201** **16 1-6**
WEL VII 13 08 39 45.0 36.95S 177.18E 201 3.9L **¶97vii1948**
ISC VII 14 01 57 00±1.1 **37.59S**±.095 **177.5E**±.11 **26** **16 1-9**
WEL VII 14 01 57 01.3 37.30S 177.76E 26 4.3L **¶97vii2056**
WEL VII 14 03 07 18.7 **35.26S** **178.21E** **288** **4.4L** **¶97vii2064**
ISC VII 17 22 55 12±1.1 **37.6S**±.11 **177.78E**±.088 **49** **22 0-7**
WEL VII 17 22 55 09.4 37.15S 177.83E 49 4.0L **¶97vii2656**
ISC VII 18 00 00 02±1.2 **39.88S**±.050 **177.2E**±.14 **47**±8.0 **4.1b** **34 1-165**
EIDC VII 17 23 59 47.5 40.3S 178.7E 0 4.2b **¶97vii2666**
WEL VII 18 00 00 04.0 39.75S 176.89E 98 4.4L
WEL Felt northern and central Hawkes Bay.
ISC VII 18 18 20 41±2.6 **39.2S**±.23 **177.7E**±.31 **12** **4 1-2**
WEL VII 18 18 20 42.0 39.19S 177.72E 12 3.7L **¶97vii2774**
ISC Poorly determined
ISC VII 20 03 37 01±1.3 **37.7S**±.14 **177.7E**±.15 **129** **14 0-7**
WEL VII 20 03 36 58.4 37.08S 177.69E 129 3.8L **¶97vii2996**
ISC VII 20 20 49 06±2.2 **41.08S**±.086 **176.2E**±.27 **65**±16 **18 0-4**
WEL VII 20 20 49 08.0 40.91S 176.05E 31 3.8L **¶97vii3149**
WEL VII 25 07 20 16.2 **39.06S** **177.25E** **12** **3.7L** **¶97vii3790**
WEL VII 25 17 03 50.9 **35.49S** **179.29E** **235** **4.6L** **¶97vii3849**
WEL VII 25 17 54 17.3 **36.22S** **177.22E** **33** **3.8L** **¶97vii3855**
ISC VII 28 22 58 11±10 **36.6S**±.99 **176.5E**±.76 **240** **5 2-4**
WEL VII 28 22 58 11.7 36.62S 176.48E 240 3.7L **¶97vii4337**
WEL VII 30 16 42 14.7 **37.07S** **177.37E** **155** **3.7L** **¶97vii4608**
ISC VII 31 18 29 54±1.7 **37.6S**±.16 **177.5E**±.16 **154** **14 1-7**
WEL VII 31 18 29 47.8 36.71S 177.73E 154 3.9L **¶97vii4775**
ISC VIII 01 12 34 02±5.3 **35.7S**±.46 **179.0E**±.41 **247** **11 2-6**
WEL VIII 01 12 34 00.5 35.67S 179.20E 247 4.0L **¶97viii0063**
ISC VIII 02 11 33 25±8.1 **36.5S**±.73 **176.1E**±.58 **257** **15 2-8**
WEL VIII 02 11 33 31.2 36.99S 176.74E 257 4.0L **¶97viii0206**
ISC VIII 03 05 02 27±3.0 **37.5S**±.33 **177.1E**±.14 **14**±11 **5 0-1**
WEL VIII 03 05 02 25.8 37.38S 177.12E 5 3.8L **¶97viii0300**
ISC Poorly determined
ISC VIII 03 05 13 42±2.5 **37.4S**±.21 **177.2E**±.10 **13**±9.5 **7 0-2**
WEL VIII 03 05 13 41.8 37.43S 177.15E 5 3.9L **¶97viii0304**
ISC VIII 03 23 42 32.2±.93 **37.51S**±.093 **177.10E**±.075 **5** **3.9b** **14 1-149**
EIDC VIII 03 23 42 20.3 36.0S 179.5E 0 4.1b **¶97viii0429**
WEL VIII 03 23 42 32.6 37.45S 177.15E 5 4.6L
ISC VIII 04 22 40 57±1.3 **35.37S**±.080 **179.4E**±.12 **116**±10 **4.8b** **104 2-175**
BJI VIII 04 22 40 52.9 35.62S 179.28E 90 5.3b **¶97viii0567**
EIDC VIII 04 22 40 54.2 35.3S 179.5E 90 4.5b,4.1s
NEIC VIII 04 22 40 54.3 35.36S 179.56E 100 4.9b
HRVD VIII 04 22 40 57.8±.9 35.10S±.12 179.47E±.15 105±8.1
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c16; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.02±.78; $M_{\theta\theta}$−2.88±1.39; $M_{\phi\phi}$5.90±1.25; $M_{r\theta}$0.85±.90; $M_{r\phi}$7.60±.85; $M_{\theta\phi}$−0.42±.93. Principal Axes: T 10.3,Plg30°,Azm270°; N −2.7, Plg10°,Azm6°; P −7.6,Plg58°,Azm112°. Best double couple: $M_0$8.9×10^{16}Nm, NP1:ϕ_S332°, δ18°,λ−125°. NP2:ϕ_S188°,δ76°,λ−80°.
ISC VIII 05 03 29 06±4.2 **37.3S**±.49 **178.3E**±.68 **98** **4 0-4**
WEL VIII 05 03 29 05.7 37.30S 178.63E 98 3.7L **¶97viii0608**
ISC Poorly determined
WEL VIII 06 20 09 03.6 **37.66S** **179.69E** **12** **3.7L** **¶97viii0838**
ISC VIII 08 04 01 06±1.5 **37.7S**±.14 **177.6E**±.14 **128** **18 1-6**
WEL VIII 08 04 01 00.9 37.01S 177.67E 128 3.8L **¶97viii1050**
ISC VIII 08 05 26 30±3.3 **35.9S**±.20 **179.7E**±.44 **239**±15 3.6b **25 2-154**
EIDC VIII 08 05 26 19.1 34.8S 179.4E 84 3.7b,3.7L **¶97viii1062**
WEL VIII 09 13 30 48.7 **37.72S** **179.13E** **30** **4.4L** **¶97viii1255**
ISC VIII 11 03 08 29±4.7 **37.3S**±.52 **178.3E**±.64 **91** **6 0-8**
WEL VIII 11 03 08 28.8 37.27S 178.53E 91 3.7L **¶97viii1500**
ISC Poorly determined
ISC VIII 12 13 04 09±8.6 **36.5S**±.74 **176.3E**±.45 **173** **9 2-6**
WEL VIII 12 13 04 12.9 36.79S 176.56E 173 4.0L **¶97viii1755**
ISC VIII 12 20 53 43±1.1 **37.8S**±.12 **177.7E**±.11 **102** **19 0-7**
WEL VIII 12 20 53 42.4 37.45S 177.69E 102 4.1L **¶97viii1807**
WEL VIII 14 01 51 40.7 **36.27S** **177.22E** **294** **3.8L** **¶97viii1991**
WEL VIII 14 14 55 13.9 **36.44S** **176.27E** **200** **3.7L** **¶97viii2083**
ISC VIII 16 13 39 26±2.4 **38.8S**±.18 **178.1E**±.25 **32**±12 **10 0-2**
WEL VIII 16 13 39 26.9 38.81S 178.07E 30 3.7L **¶97viii2375**
ISC VIII 16 14 12 07.9±.89 **37.49S**±.058 **177.5E**±.14 **200** **4.1b** **62 0-151**
EIDC VIII 16 14 12 00.8 36.8S 178.2E 148 4.2b **¶97viii2380**
WEL VIII 16 14 12 07.3 36.87S 177.62E 147 4.9L
NEIC VIII 16 14 12 10.8 37.53S 177.03E 200 4.2b
NEIC Less reliable solution.
ISC VIII 18 15 53 36±1.4 **37.5S**±.11 **177.4E**±.16 **199**±11 3.2b **22 0-41**
WEL VIII 18 15 53 38.0 37.15S 177.29E 157 4.2L **¶97viii2693**
ISC VIII 20 11 03 45±1.3 **37.5S**±.13 **177.7E**±.14 **148** **18 0-6**
WEL VIII 20 11 03 42.9 37.00S 177.72E 148 4.0L **¶97viii2949**
WEL VIII 21 13 13 43.9 **36.08S** **179.22E** **12** **4.3L** **¶97viii3099**
WEL VIII 22 06 31 44.9 **37.59S** **178.67E** **12** **3.8L** **¶97viii3188**
ISC VIII 22 06 35 29±1.3 **37.6S**±.15 **177.3E**±.15 **154** **12 1-7**
WEL VIII 22 06 35 26.9 37.03S 177.39E 154 3.9L **¶97viii3189**
ISC VIII 22 17 21 23±4.1 **37.6S**±.28 **177.6E**±.22 **12** **6 0-7**
WEL VIII 22 17 21 26.8 37.67S 177.81E 12 4.0L **¶97viii3255**
ISC Poorly determined
ISC VIII 22 19 51 29±3.4 **39.80S**±.098 **177.2E**±.37 **33** **13 1-5**
WEL VIII 22 19 51 30.4 39.77S 177.09E 33 3.7L **¶97viii3277**
WEL VIII 22 21 06 56.8 **37.59S** **178.35E** **165** **4.0L** **¶97viii3286**
ISC VIII 24 19 05 33±1.0 **37.01S**±.091 **177.4E**±.20 **285**±8.4 **3.9b** **43 1-150**
EIDC VIII 24 19 05 31.9 36.9S 177.7E 270 3.8b **¶97viii3580**
WEL VIII 24 19 05 34.4 36.72S 177.33E 249 4.9L
ISC VIII 24 20 23 22.2±.74 **39.91S**±.043 **177.08E**±.095 **36** **31 0-8**
WEL VIII 24 20 23 24.7 39.79S 176.98E 36 4.1L **¶97viii3586**
WEL Felt I=IV MM Patoka, Hastings and Napier
WEL VIII 24 23 11 29.1 **37.92S** **179.17E** **12** **4.3L** **¶97viii3604**
WEL VIII 25 06 01 46.6 **36.18S** **179.39E** **12** **3.8L** **¶97viii3654**
ISC VIII 28 06 20 59±1.9 **37.4S**±.22 **177.5E**±.23 **185** **7 1-4**
WEL VIII 28 06 20 59.6 37.31S 177.55E 185 3.7L **¶97viii4095**
WEL VIII 28 09 36 30.7 **36.49S** **178.61E** **12** **3.7L** **¶97viii4111**
ISC VIII 30 01 00 06.6±.84 **39.18S**±.055 **177.63E**±.093 **29** **23 1-6**
WEL VIII 30 01 00 09.4 38.99S 177.50E 29 3.9L **¶97viii4401**
WEL VIII 30 22 26 54.6 **36.66S** **177.60E** **12** **4.0L** **¶97viii4548**
WEL IX 01 16 18 19.4 **37.82S** **179.20E** **46** **3.7L** **¶97ix0136**
WEL IX 03 09 55 38.5 **36.68S** **178.27E** **23** **3.7L** **¶97ix0415**
WEL IX 04 06 37 02.0 **36.31S** **178.03E** **259** **3.8L** **¶97ix0556**
ISC IX 04 07 23 29±8.2 **36.8S**±.68 **177.4E**±.47 **316**±50 **14 1-8**
WEL IX 04 07 23 40.0 36.95S 176.96E 203 4.1L **¶97ix0561**
WEL IX 04 08 24 02.2 **36.47S** **177.18E** **190** **3.7L** **¶97ix0570**
EIDC IX 05 03 44 22.5 **36.1S** **178.7E** **700** **3.2b** **¶97ix0686**
WEL IX 07 07 05 49.5 **37.34S** **179.44E** **110** **3.8L** **¶97ix1022**
ISC IX 08 15 56 22±2.1 **36.2S**±.21 **178.6E**±.35 **258**±17 **3.3b** **14 1-42**
EIDC IX 08 15 55 11.8 36.6S 174.5W 0 3.9b **¶97ix1243**
WEL IX 08 15 56 20.9 35.90S 178.61E 241 4.3L
EIDC LO CONF Location
WEL IX 09 21 10 35.4 **36.92S** **178.30E** **57** **3.8L** **¶97ix1439**
WEL IX 09 23 13 24.0 **36.81S** **177.59E** **187** **4.0L** **¶97ix1451**
WEL IX 10 15 21 12.9 **36.49S** **178.23E** **284** **3.8L** **¶97ix1540**
WEL IX 13 21 27 52.2 **35.21S** **177.62E** **249** **4.2L** **¶97ix2038**
WEL IX 15 10 46 15.9 **37.30S** **177.27E** **103** **3.9L** **¶97ix2230**
WEL IX 16 02 11 48.1 **37.17S** **177.37E** **5** **3.7L** **¶97ix2313**
WEL IX 16 22 09 11.3 **35.59S** **179.50E** **176** **4.1L** **¶97ix2434**
WEL IX 16 23 43 15.4 **35.83S** **179.61E** **178** **4.4L** **¶97ix2442**
WEL IX 17 08 25 56.9 **37.52S** **179.59E** **12** **3.7L** **¶97ix2487**
ISC IX 17 22 16 09±3.4 **37.1S**±.16 **178.5E**±.33 **12** 3.0b **11 0-100**
WEL IX 17 22 16 10.8 37.19S 178.38E 12 4.2L **¶97ix2565**
EIDC IX 17 22 17 14.3 36.8S 169.1E 0 3.6b
ISC IX 18 06 02 49.5 **35.20S** **177.43E** **12** **4.7L** **¶97ix2620**
ISC IX 19 02 54 27.2±.75 **37.70S**±.088 **177.10E**±.087 **90** **16 0-7**
WEL IX 19 02 54 27.6 37.63S 177.10E 90 3.9L **¶97ix2745**
ISC IX 19 18 17 24±1.5 **37.8S**±.19 **177.3E**±.20 **184** **10 1-4**
WEL IX 19 18 17 24.3 37.66S 177.28E 184 3.8L **¶97ix2825**
ISC IX 19 19 09 21±2.4 **36.9S**±.26 **177.6E**±.26 **221** **10 1-6**
WEL IX 19 19 09 21.6 36.81S 177.53E 221 3.7L **¶97ix2832**
ISC IX 20 05 33 09±1.5 **37.2S**±.20 **177.4E**±.15 **142** **7 1-4**
WEL IX 20 05 33 09.3 37.18S 177.47E 142 3.9L **¶97ix2904**
ISC IX 20 11 15 57.2±.58 **37.53S**±.052 **177.10E**±.078 **93** **4.4b** **65 0-163**
WEL IX 20 11 15 59.1 37.30S 177.61E 93 5.1L **¶97ix2935**
EIDC IX 20 11 16 06.7 37.2S 177.4E 189 3.9b
NEIC IX 20 11 16 18.8 37.60S 176.78E 300 4.0b
NEIC Less reliable solution.
WEL IX 25 05 08 01.8 **36.70S** **179.57E** **12** **3.7L** **¶97ix3682**
ISC IX 26 03 45 59±1.2 **39.85S**±.056 **177.1E**±.14 **58**±22 **20 0-3**
WEL IX 26 03 46 00.6 39.82S 177.04E 43 3.8L **¶97ix3863**
ISC IX 27 06 19 32.4±.91 **37.94S**±.080 **177.7E**±.12 **117**±7.9 **3.5b** **36 0-145**
EIDC IX 27 06 19 22.0 36.2S 178.0E 0 3.7b **¶97ix4270**
WEL IX 27 06 19 34.5 37.52S 177.46E 60 4.3L
NEIC IX 27 06 19 45.5 39.04S 176.76E 200 3.2b
NEIC Poor solution.
WEL X 01 09 42 37.1 **35.92S** **179.41E** **133** **3.8L** **¶97x0068**
ISC X 02 08 49 52±3.3 **36.7S**±.29 **177.2E**±.16 **5** **5 1-3**
WEL X 02 08 49 50.5 36.53S 177.33E 5 3.7L **¶97x0245**
WEL X 07 21 14 29.0 **35.57S** **176.96E** **166** **4.1L** **¶97x1301**
WEL X 08 13 36 25.9 **35.28S** **177.54E** **12** **4.5L** **¶97x1425**
WEL X 10 10 29 41.3 **35.27S** **177.47E** **194** **4.1L** **¶97x1739**
ISC X 10 16 19 53±1.2 **37.7S**±.13 **177.5E**±.14 **150** **13 1-4**
WEL X 10 16 19 51.5 37.15S 177.57E 150 3.9L **¶97x1771**
ISC X 11 19 41 54±2.3 **37.4S**±.39 **177.2E**±.15 **151** **6 1-7**
WEL X 11 19 41 54.5 37.40S 177.23E 151 3.9L **¶97x1930**
ISC X 13 07 18 00.3±.87 **37.81S**±.071 **177.7E**±.13 **157**±5.6 **4.3b** **60 0-164**
EIDC X 13 07 17 51.6 37.1S 178.1E 70 4.3b,4.5L **¶97x2172**
NEIC X 13 07 17 53.9 37.34S 177.88E 100 4.5b
WEL X 13 07 18 01.1 37.25S 177.58E 103 5.0L
NEIC Less reliable solution.
WEL Felt Opotiki district.
ISC X 13 20 13 46±4.1 **36.8S**±.31 **177.2E**±.21 **323**±25 **34 1-10**
WEL X 13 20 13 52.5 36.71S 177.18E 249 4.8L **¶97x2279**
WEL X 14 03 48 41.7 **37.54S** **178.41E** **231** **4.1L** **¶97x2332**
WEL X 15 12 38 54.1 **36.71S** **177.85E** **12** **3.7L** **¶97x2634**
WEL X 16 11 03 55.9 **35.83S** **179.89E** **258** **3.7L** **¶97x2827**
WEL X 17 19 45 58.2 **35.69S** **179.42E** **33** **4.2L** **¶97x3050**
WEL X 21 03 47 58.0 **37.62S** **178.83E** **78** **3.7L** **¶97x3594**
WEL X 22 13 56 46.4 **37.19S** **178.99E** **12** **4.2L** **¶97x3828**
ISC X 23 07 44 26±3.9 **37.1S**±.20 **179.7E**±.44 **12** 3.8b **10 1-43**
WEL X 23 07 44 32.6 37.21S 179.23E 12 4.1L **¶97x3947**
ISC X 24 08 27 09±6.2 **36.8S**±.61 **176.2E**±.46 **258** **12 2-7**
WEL X 24 08 27 11.6 36.88S 176.51E 258 4.2L **¶97x4125**
WEL X 26 12 50 08.6 **37.08S** **177.47E** **148** **4.0L** **¶97x4462**
ISC X 28 10 59 58±3.6 **38.1S**±.13 **179.7E**±.33 **10** 3.7b **22 1-43**
NEIC X 28 11 00 03.9 38.06S 178.83E 10 **¶97x4747**
WEL X 28 11 00 04.9 37.81S 179.16E 12 4.1L
NEIC Poor solution.

Agency		Origin Time				φ	λ	h	Mag		n	Δ-Rng
		mo	d	h	m	s	°	°	km				°
ISC	**X**	**31**	**03**	**40**	**07.7**±.99	**37.9S**±.11	**177.2E**±.13	**140**			**15**	**1-7**
WEL	X	31	03	40	07.5	37.56S	177.29E	140	4.0L			¶97x5122
WEL	**XI**	**01**	**18**	**01**	**57.3**	**37.71S**	**178.92E**	**26**	**3.7L**			¶97xi0115
ISC	**XI**	**01**	**20**	**01**	**51**±1.5	**37.5S**±.15	**177.3E**±.13	**153**			**17**	**1-6**
WEL	XI	01	20	01	48.2	36.93S	177.51E	153	4.0L			¶97xi0133
ISC	**XI**	**02**	**20**	**49**	**39**±5.0	**37.6S**±.47	**177.1E**±.48	**117**			**5**	**1-3**
WEL	XI	02	20	49	41.2	37.69S	177.35E	117	3.7L			¶97xi0333
WEL	**XI**	**03**	**22**	**58**	**51.1**	**36.83S**	**177.08E**	**12**	**3.8L**			¶97xi0533
ISC	**XI**	**03**	**23**	**22**	**38**±7.0	**37.2S**±.43	**177.1E**±.12	**12**±29			**6**	**0-2**
WEL	XI	03	23	22	38.7	37.19S	177.13E	5	3.8L			¶97xi0537
ISC	**XI**	**05**	**13**	**35**	**39**±3.6	**36.6S**±.14	**179.3E**±.44	**12**	3.7b		**9**	**1-43**
WEL	XI	05	13	35	43.9	36.67S	179.03E	12	3.9L			¶97xi0806
ISC	**XI**	**06**	**06**	**23**	**01**±2.8	**37.2S**±.24	**177.37E**±.092	**12**			**10**	**1-4**
WEL	XI	06	06	23	02.7	37.26S	177.40E	12	3.8L			¶97xi0936
ISC	**XI**	**07**	**16**	**57**	**23**±2.3	**35.5S**±.10	**178.8E**±.35	**200**	**4.4b**		**28**	**2-153**
NEIC	XI	07	16	57	22.1	35.47S	178.93E	200	4.5b			¶97xi1148
NEIC	Poor solution.											
ISC	**XI**	**08**	**21**	**39**	**30**±2.3	**36.9S**±.15	**178.8E**±.32	**183**±13	3.5b		**22**	**1-155**
EIDC	XI	08	21	39	09.1	36.3S	179.3E	0	3.7b			¶97xi1356
WEL	XI	08	21	39	23.7	35.93S	179.15E	109	4.5L			
ISC	**XI**	**09**	**08**	**28**	**54.3**±.61	**37.95S**±.069	**177.1E**±.11	**168**±4.9	**3.9b**		**49**	**0-152**
NEIC	XI	09	08	28	54.5	37.82S	176.94E	155	4.2b			¶97xi1420
WEL	XI	09	08	28	55.1	37.58S	177.18E	139	5.0L			
EIDC	XI	09	08	29	15.6	37.7S	176.5E	338	3.5b			
NEIC	Less reliable solution.											
WEL	Felt I=IV MM Ruatuna Rd											
ISC	**XI**	**09**	**14**	**06**	**30**±1.3	**37.4S**±.13	**177.4E**±.14	**157**			**20**	**0-7**
WEL	XI	09	14	06	27.4	36.92S	177.58E	157	4.3L			¶97xi1454
WEL	**XI**	**10**	**19**	**35**	**40.6**	**38.12S**	**179.03E**	**12**	**3.9L**			¶97xi1662
ISC	**XI**	**15**	**21**	**40**	**12**±1.3	**40.49S**±.059	**177.0E**±.16	**42**±11	**3.6b**		**32**	**1-147**
WEL	XI	15	21	40	12.6	40.45S	176.92E	12	4.1L			¶97xi2542
EIDC	XI	15	21	40	12.8	40.0S	177.0E	21	3.2b			
NEIC	XI	15	21	40	13.4	40.41S	176.91E	33	3.8b			
NEIC	Less reliable solution.											
ISC	**XI**	**16**	**21**	**57**	**47**±2.6	**37.1S**±.14	**179.0E**±.30	**187**±10	3.6b		**33**	**1-155**
EIDC	XI	16	21	57	33.9	35.5S	179.8E	74	3.5b			¶97xi2701
WEL	XI	16	21	57	34.3	35.73S	179.62E	97	4.5L			
WEL	**XI**	**17**	**01**	**15**	**39.5**	**37.79S**	**179.11E**	**12**	**3.7L**			¶97xi2722
ISC	**XI**	**17**	**13**	**04**	**17**±1.9	**37.4S**±.23	**177.7E**±.15	**132**			**9**	**1-7**
WEL	XI	17	13	04	16.6	37.20S	177.71E	132	3.7L			¶97xi2801
ISC	**XI**	**18**	**15**	**39**	**43**±3.0	**37.4S**±.28	**178.0E**±.13	**12**			**9**	**0-4**
WEL	XI	18	15	39	41.1	37.17S	178.10E	12	4.0L			¶97xi2999
ISC	**XI**	**18**	**15**	**42**	**20**±1.1	**37.69S**±.090	**178.1E**±.12	**27**			**26**	**0-9**
WEL	XI	18	15	42	15.5	37.11S	178.29E	27	4.2L			¶97xi3001
ISC	**XI**	**20**	**14**	**23**	**56.2**±.83	**39.47S**±.046	**177.57E**±.098	**28**			**27**	**1-6**
NEIC	XI	20	14	23	54.9	39.44S	177.74E	33				¶97xi3476
WEL	XI	20	14	23	59.3	39.29S	177.41E	28	4.0L			
NEIC	Single network solution.											
ISC	**XI**	**22**	**12**	**35**	**02**±2.7	**36.0S**±.15	**179.3E**±.39	**249**±15	**4.3b**		**34**	**2-154**
NEIC	XI	22	12	35	02.1	36.02S	179.26E	250	4.3b			¶97xi3874
EIDC	XI	22	12	35	17.2	35.3S	178.2E	316	4.0b			
NEIC	Less reliable solution.											
WEL	**XI**	**23**	**05**	**59**	**45.6**	**36.63S**	**176.49E**	**265**	**3.7L**			¶97xi4050
ISC	**XI**	**26**	**11**	**34**	**12.2**±.97	**39.89S**±.062	**177.1E**±.13	**61**±19			**21**	**0-5**
WEL	XI	26	11	34	13.9	39.88S	177.01E	38	3.8L			¶97xi4678
WEL	Felt I=IV MM Patoka											
ISC	**XI**	**30**	**06**	**32**	**40**±1.6	**39.97S**±.051	**177.1E**±.19	**28**			**21**	**0-7**
WEL	XI	30	06	32	42.4	39.89S	176.96E	28	3.9L			¶97xi5374
WEL	Felt I=III MM Waipawa											
ISC	**XII**	**02**	**17**	**28**	**19**±2.3	**37.4S**±.23	**177.10E**±.090	**5**			**5**	**0-2**
WEL	XII	02	17	28	19.5	37.45S	177.07E	5	3.8L			¶97xii0288
ISC	**XII**	**06**	**20**	**45**	**41**±1.3	**37.65S**±.099	**177.3E**±.14	**176**±11	3.4b		**24**	**0-41**
WEL	XII	06	20	45	42.9	37.46S	177.20E	146	4.1L			¶97xii1522
WEL	**XII**	**09**	**08**	**59**	**24.2**	**36.13S**	**179.71E**	**12**	**3.8L**			¶97xii2135
WEL	**XII**	**09**	**10**	**10**	**38.6**	**35.96S**	**177.56E**	**12**	**3.9L**			¶97xii2150
WEL	**XII**	**16**	**03**	**29**	**49.0**	**37.90S**	**179.29E**	**25**	**4.2L**			¶97xii3378
ISC	**XII**	**16**	**10**	**21**	**09**±1.7	**36.8S**±.27	**177.0E**±.49	**294**±35	3.0b		**17**	**2-41**
WEL	XII	16	10	21	09.9	36.71S	177.23E	276	4.2L			¶97xii3435
ISC	**XII**	**16**	**13**	**21**	**28**±3.8	**35.4S**±.16	**179.3E**±.57	**300**	3.7b		**15**	**3-42**
												¶97xii3455
ISC	**XII**	**17**	**19**	**16**	**18**±2.3	**39.3S**±.13	**178.1E**±.24	**33**			**12**	**1-6**
WEL	XII	17	19	16	21.0	39.13S	178.01E	33	3.7L			¶97xii3649
WEL	**XII**	**18**	**14**	**00**	**57.4**	**37.62S**	**179.42E**	**33**	**3.8L**			¶97xii3776
ISC	**XII**	**18**	**22**	**21**	**19**±1.5	**39.64S**±.060	**177.4E**±.12	**26**±12			**21**	**0-5**
WEL	XII	18	22	21	19.7	39.57S	177.42E	20	3.9L			¶97xii3843
ISC	**XII**	**19**	**05**	**59**	**17**±1.7	**37.9S**±.15	**177.2E**±.11	**68**			**15**	**1-7**
WEL	XII	19	05	59	12.7	37.14S	177.53E	68	4.0L			¶97xii3903
ISC	**XII**	**20**	**05**	**44**	**22**±1.1	**39.86S**±.053	**177.1E**±.15	**73**±19			**23**	**0-5**
WEL	XII	20	05	44	24.4	39.82S	177.09E	41	3.8L			¶97xii4085
WEL	**XII**	**21**	**15**	**30**	**58.4**	**35.16S**	**177.32E**	**150**	**4.1L**			¶97xii4268
ISC	**XII**	**23**	**02**	**23**	**18**±1.4	**37.9S**±.16	**177.7E**±.14	**33**			**8**	**0-7**
WEL	XII	23	02	23	18.8	37.92S	177.73E	33	3.7L			¶97xii4522
WEL	**XII**	**27**	**03**	**25**	**03.0**	**35.10S**	**178.12E**	**201**	**3.9L**			¶97xii5238
ISC	**XII**	**29**	**01**	**47**	**46**±5.6	**37.3S**±.41	**178.7E**±.87	**80**			**5**	**0-3**
WEL	XII	29	01	47	45.6	37.25S	178.88E	80	3.8L			¶97xii5529
ISC	**XII**	**29**	**19**	**40**	**56**±2.9	**35.3S**±.35	**178.7E**±.95	**260**±54	3.1b		**14**	**2-42**
												¶97xii5626
ISC	**XII**	**30**	**13**	**20**	**00**±11	**36.8S**±.87	**176.3E**±.65	**142**			**4**	**2-4**
WEL	XII	30	13	19	59.4	36.70S	176.26E	142	3.7L			¶97xii5738
ISC	Poorly determined											

(161) Off west coast of South Island, N.Z.

ISC	**VII**	**27**	**13**	**30**	**25**±6.8	**46.3S**±.29	**166.7E**±.61	**135**±41			**11**	**1-6**
WEL	VII	27	13	30	29.2	46.33S	166.84E	96	4.2L			¶97vii4114
ISC	**VIII**	**22**	**22**	**09**	**29**±5.2	**44.6S**±.12	**166.2E**±.59	**5**			**9**	**1-6**
WEL	VIII	22	22	09	34.4	44.82S	166.58E	5	4.2L			¶97viii3296
WEL	**VIII**	**23**	**11**	**06**	**08.3**	**47.19S**	**165.19E**	**12**	**4.2L**			¶97viii3395
WEL	**IX**	**09**	**03**	**32**	**09.7**	**46.84S**	**165.37E**	**12**	**3.8L**			¶97ix1317
ISC	**IX**	**22**	**15**	**44**	**08**±5.6	**42.9S**±.15	**168.5E**±.46	**18**±28			**13**	**1-6**
WEL	IX	22	15	44	13.6	43.17S	168.86E	12	3.7L			¶97ix3300
ISC	**IX**	**23**	**16**	**24**	**51**±2.1	**49.0S**±.28	**164.7E**±.17	**33**	**4.3b**		**22**	**4-152**
EIDC	IX	23	16	24	47.2	49.4S	164.5E	0	4.4b,4.2L			¶97ix3449
ISC	**IX**	**23**	**16**	**26**	**44.0**±.55	**48.73S**±.078	**164.38E**±.078	**10**	**4.9b**,5.9s		**65**	**4-170**
NEIC	IX	23	16	26	44.7	48.85S	164.01E	10	4.8b			¶97ix3451
EIDC	IX	23	16	26	52.8	48.5S	164.5E	66	4.5b,4.6s			
NEIC	Less reliable solution.											
ISC	**IX**	**30**	**19**	**18**	**05**±1.2	**43.47S**±.072	**168.1E**±.15	**12**			**25**	**1-7**
WEL	IX	30	19	18	07.5	43.55S	168.16E	12	4.6L			¶97ix5299
WEL	**X**	**01**	**11**	**49**	**37.6**	**47.34S**	**165.76E**	**33**	**3.7L**			¶97x0078
ISC	**X**	**18**	**15**	**48**	**44**±1.0	**40.76S**±.086	**172.8E**±.12	**250**±13			**32**	**0-6**
WEL	X	18	15	48	48.9	40.76S	172.93E	208	4.5L			¶97x3188
ISC	**XI**	**05**	**20**	**42**	**17**±1.8	**46.1S**±.17	**166.2E**±.15	**5**	3.5b		**9**	**1-37**
WEL	XI	05	20	42	22.3	45.92S	166.60E	5	4.0L			¶97xi0861
WEL	**XI**	**10**	**03**	**52**	**54.1**	**44.79S**	**166.60E**	**12**	**3.9L**			¶97xi1554
ISC	**XI**	**15**	**09**	**38**	**02**±8.2	**44.6S**±.12	**166.0E**±.91	**5**			**7**	**1-6**
WEL	XI	15	09	38	10.3	44.86S	166.62E	5	4.1L			¶97xi2453
WEL	**XII**	**14**	**19**	**34**	**15.8**	**45.66S**	**165.38E**	**33**	**3.9L**			¶97xii3185

(162) South Island, New Zealand.

ISC	**VII**	**02**	**20**	**29**	**12.1**±.84	**45.9S**±.11	**168.3E**±.13	**23**±19			**9**	**0-4**
WEL	VII	02	20	29	12.4	45.93S	168.24E	12	4.0L			¶97vii0298
WEL	Felt strongly at Ohai.											
ISC	**VII**	**05**	**06**	**39**	**33**±1.4	**45.0S**±.13	**167.7E**±.21	**125**			**8**	**0-4**
WEL	VII	05	06	39	34.2	45.07S	167.51E	125	3.8L			¶97vii0694
ISC	**VII**	**05**	**23**	**24**	**55**±1.2	**41.6S**±.11	**172.3E**±.16	**12**			**10**	**1-4**
WEL	VII	05	23	24	57.1	41.75S	172.40E	12	3.7L			¶97vii0809
ISC	**VII**	**12**	**06**	**23**	**09**±1.7	**44.93S**±.087	**167.5E**±.22	**85**±20			**12**	**0-11**
WEL	VII	12	06	23	10.8	44.97S	167.49E	66	4.2L			¶97vii1780
ISC	**VII**	**13**	**03**	**38**	**45**±1.4	**41.2S**±.13	**172.6E**±.17	**211**±22			**24**	**1-7**
WEL	VII	13	03	38	49.6	41.25S	172.75E	178	4.2L			¶97vii1920
ISC	**VII**	**16**	**16**	**34**	**15**±1.6	**45.64S**±.099	**167.2E**±.22	**75**			**9**	**0-5**
WEL	VII	16	16	34	14.4	45.71S	166.92E	75	4.0L			¶97vii2467
ISC	**VII**	**21**	**13**	**34**	**03.4**±.92	**41.22S**±.063	**173.29E**±.095	**138**±16			**28**	**1-5**
WEL	VII	21	13	34	06.1	41.16S	173.28E	106	4.2L			¶97vii3250
ISC	**VII**	**23**	**14**	**19**	**02**±3.2	**44.9S**±.10	**167.3E**±.34	**116**±28			**13**	**1-5**
WEL	VII	23	14	19	05.9	45.04S	167.49E	78	4.0L			¶97vii3542
ISC	**VII**	**24**	**15**	**08**	**01**±1.3	**45.16S**±.088	**167.4E**±.20	**69**			**10**	**0-5**
WEL	VII	24	15	08	01.9	45.21S	167.33E	69	3.8L			¶97vii3686
ISC	**VII**	**27**	**14**	**44**	**26**±4.0	**44.9S**±.12	**167.3E**±.37	**147**±37			**9**	**1-5**
WEL	VII	27	14	44	30.4	45.06S	167.53E	113	3.7L			¶97vii4122
ISC	**VII**	**29**	**02**	**37**	**41**±1.8	**44.33S**±.090	**168.6E**±.14	**9**±18			**11**	**1-3**
WEL	VII	29	02	37	40.7	44.37S	168.67E	5	3.7L			¶97vii4368
WEL	Felt I=IV MM Mt Aspiring Stn											
ISC	**VII**	**29**	**15**	**07**	**17**±1.0	**41.42S**±.071	**173.50E**±.096	**108**±20			**22**	**1-4**
WEL	VII	29	15	07	18.3	41.34S	173.44E	89	4.0L			¶97vii4445
EIDC	**VIII**	**02**	**03**	**09**	**23.1**	**41.9S**	**173.7E**	**0**	**4.0b**			**5-40**
												¶97viii0162
ISC	**VIII**	**07**	**09**	**07**	**12.9**±.90	**42.99S**±.082	**171.5E**±.10	**20**±14			**10**	**1-3**
WEL	VIII	07	09	07	12.8	42.97S	171.45E	12	3.7L			¶97viii0913
ISC	**VIII**	**07**	**20**	**40**	**50**±1.6	**45.1S**±.13	**167.4E**±.25	**116**			**8**	**0-3**
WEL	VIII	07	20	40	51.5	45.13S	167.42E	116	3.8L			¶97viii1002
ISC	**VIII**	**10**	**00**	**42**	**44**±1.6	**41.3S**±.13	**172.5E**±.17	**242**±21			**21**	**1-6**
WEL	VIII	10	00	42	48.3	41.29S	172.62E	208	4.0L			¶97viii1326
ISC	**VIII**	**19**	**15**	**07**	**13**±1.3	**42.34S**±.088	**174.0E**±.11	**22**±13			**19**	**0-5**
WEL	VIII	19	15	07	12.5	42.31S	173.98E	13	3.7L			¶97viii2825
ISC	**VIII**	**19**	**16**	**39**	**03**±3.0	**44.9S**±.11	**167.3E**±.32	**104**±28			**10**	**0-5**
WEL	VIII	19	16	39	07.4	44.99S	167.49E	71	3.8L			¶97viii2838
ISC	**VIII**	**20**	**16**	**15**	**20**±1.3	**43.1S**±.14	**171.4E**±.15	**5**			**8**	**1-3**
WEL	VIII	20	16	15	20.8	43.13S	171.43E	5	3.8L			¶97viii2987
ISC	**VIII**	**22**	**13**	**24**	**01.8**±.35	**41.58S**±.053	**173.98E**±.077	**58**±7.0	**4.4b**		**44**	**0-153**
NEIC	VIII	22	13	24	01.7	41.46S	173.92E	52				¶97viii3229
EIDC	VIII	22	13	24	01.9	41.2S	174.1E	42	4.3b,3.3L			
WEL	VIII	22	13	24	03.1	41.47S	173.97E	41	4.7L			
NEIC	Felt from Christchurch on the South Island to Wellington on the North Island.											
WEL	Felt I=IV MM Raumati to Blenheim											
ISC	**VIII**	**23**	**02**	**56**	**08**±3.4	**44.9S**±.13	**167.3E**±.36	**125**±29			**9**	**0-4**
WEL	VIII	23	02	56	13.2	45.04S	167.56E	84	4.0L			¶97viii3328
ISC	**VIII**	**31**	**07**	**49**	**48**±1.0	**42.33S**±.074	**173.9E**±.11	**26**±10			**23**	**0-5**
WEL	VIII	31	07	49	47.9	42.29S	173.93E	16	4.1L			¶97viii4609
ISC	**VIII**	**31**	**08**	**02**	**25**±1.4	**42.37S**±.087	**174.0E**±.13	**22**±14			**20**	**0-4**
WEL	VIII	31	08	02	26.1	42.29S	173.93E	16	3.9L			¶97viii4612
ISC	**IX**	**03**	**13**	**53**	**15**±1.2	**42.32S**±.087	**172.7E**±.16	**10**±12			**15**	**1-5**
WEL	IX	03	13	53	15.3	42.26S	172.62E	12	3.7L			¶97ix0429
ISC	**IX**	**03**	**17**	**41**	**25**±3.2	**44.5S**±.15	**168.0E**±.30	**117**±35			**9**	**0-4**
WEL	IX	03	17	41	29.4	44.63S	168.19E	84	3.8L			¶97ix0455
ISC	**IX**	**03**	**18**	**04**	**07**±3.4	**41.2S**±.20	**172.5E**±.33	**233**±35			**13**	**1-5**
WEL	IX	03	18	04	09.9	41.48S	172.86E	226	3.7L			¶97ix0462
ISC	**IX**	**06**	**17**	**52**	**43**±2.4	**44.8S**±.11	**167.2E**±.29	**5**			**9**	**1-5**
WEL	IX	06	17	52	45.2	44.94S	167.44E	5	3.7L			¶97ix0952
ISC	**IX**	**08**	**09**	**43**	**32**±1.5	**41.9S**±.11	**172.7E**±.15	**111**±23			**15**	**0-4**
WEL	IX	08	09	43	33.4	41.82S	172.56E	87	3.7L			¶97ix1205
ISC	**IX**	**16**	**10**	**08**	**15**±2.1	**43.54S**±.065	**170.18E**±.097	**8**±15	**4.1b,3.5s**		**37**	**0-152**
NEIC	IX	16	10	08	16.4	43.39S	170.19E	10	4.3b			¶97ix2371
EIDC	IX	16	10	08	16.7	43.3S	170.2E	0	4.1b,3.5s			
WEL	IX	16	10	08	17.5	43.67S	170.29E	5	5.0L			
NEIC	Less reliable solution.											
WEL	Felt I=IV MM Greymouth to Mt Cook											
ISC	**IX**	**16**	**10**	**57**	**31**±2.7	**43.6S**±.12	**170.2E**±.18	**6**±19			**10**	**1-3**
WEL	IX	16	10	57	32.5	43.67S	170.29E	5	3.8L			¶97ix2374
ISC	**IX**	**16**	**15**	**24**	**04.1**±.38	**43.55S**±.051	**170.18E**±.070	**10**	**4.1b**		**42**	**0-152**
NEIC	IX	16	15	24	04.3	43.48S	170.18E	10	4.7b			¶97ix2403
EIDC	IX	16	15	24	04.5	43.3S	170.2E	0	4.1b,3.6L			
WEL	IX	16	15	24	05.4	43.64S	170.26E	5	5.0L			
NEIC	Less reliable solution.											
NEIC	Felt along the west coast of the South Island.											
WEL	Felt I=IV MM Greymouth to Mt Cook											
ISC	**IX**	**18**	**01**	**37**	**35**±1.6	**41.3S**±.10	**172.7E**±.13	**153**±23			**20**	**0-5**
WEL	IX	18	01	37	37.4	41.23S	172.75E	132	4.1L			¶97ix2594
WEL	IX	18	01	37	39.3	41.19S	172.68E	221	3.8L			
ISC	**IX**	**19**	**21**	**37**	**22.0**±.89	**43.23S**±.056	**171.61E**±.070	**28**±9.3	**4.1b,3.6s**		**43**	**1-153**
NEIC	IX	19	21	37	20.5	43.08S	171.52E	10	4.0b			¶97ix2853
EIDC	IX	19	21	37	21.1	42.8S	171.4E	0	4.0b,3.6s			
WEL	IX	19	21	37	22.8	43.19S	171.57E	12	4.9L			
NEIC	Felt at Arthur's Pass, Christchurch and many other parts of Canterbury.											
WEL	Felt I=IV MM Lake Coleridge and Christchurch											
ISC	**IX**	**22**	**10**	**43**	**05**±4.3	**44.8S**±.13	**167.2E**±.41	**135**±37			**11**	**1-4**
WEL	IX	22	10	43	10.0	44.95S	167.49E	91	4.3L			¶97ix3267
ISC	**IX**	**24**	**13**	**12**	**35**±1.3	**45.1S**±.12	**167.6E**±.20	**115**			**9**	**0-4**
WEL	IX	24	13	12	35.7	45.17S	167.42E	115	3.7L			¶97ix3582
ISC	**IX**	**25**	**05**	**07**	**44**±1.5	**42.69S**±.076	**173.5E**±.12	**14**±11			**16**	**0-4**
WEL	IX	25	05	07	44.8	42.62S	173.40E	12	3.8L			¶97ix3681
ISC	**IX**	**25**	**05**	**08**	**13**±1.1	**42.6S**±.11	**173.4E**±.15	**24**±12			**9**	**0-3**
WEL	IX	25	05	08	13.6	42.62S	173.39E	12	4.2L			¶97ix3683
ISC	**IX**	**29**	**02**	**52**	**13.2**±.82	**45.61S**±.087	**168.3E**±.10	**30**			**10**	**0-4**
WEL	IX	29	02	52	14.1	45.67S	168.16E	30	4.0L			¶97ix4842
ISC	**IX**	**30**	**06**	**28**	**01**±2.6	**45.36S**±.096	**167.2E**±.43	**17**±23			**10**	**0-4**
WEL	IX	30	06	27	58.6	45.39S	166.78E	12	4.0L			¶97ix5145

ISC	**X**	**01 09 35 56**±2.2	**45.7S**±.21	**167.1E**±.28	**90**		**6**	**0-3**
WEL	X	01 09 35 55.7	45.90S	166.94E	90	3.7L		¶97x0066
ISC	**X**	**02 17 38 31.0**±.58	**43.54S**±.064	**170.18E**±.086	**6**		**17**	**0-6**
WEL	X	02 17 38 32.5	43.59S	170.21E	6	4.1L		¶97x0321
WEL	Felt I=IV MM Mahitahi							
ISC	**X**	**07 06 16 10**±1.3	**44.9S**±.10	**167.6E**±.19	**85**		**11**	**0-4**
WEL	X	07 06 16 11.3	45.02S	167.53E	85	3.9L		¶97x1191
ISC	**X**	**10 00 14 03**±1.3	**45.1S**±.12	**167.5E**±.20	**119**		**10**	**0-4**
WEL	X	10 00 14 03.3	45.21S	167.44E	119	4.1L		¶97x1665
ISC	**X**	**15 01 37 52**±1.6	**42.30S**±.054	**172.63E**±.095	**9**±12		**25**	**1-5**
WEL	X	15 01 37 52.1	42.25S	172.59E	5	4.0L		¶97x2529
ISC	**X**	**16 21 59 45.8**±.98	**43.30S**±.065	**171.44E**±.093	**27**±12		**26**	**0-6**
WEL	X	16 21 59 46.4	43.29S	171.35E	12	4.6L		¶97x2885
WEL	Felt lake Coleridge and Christchurch.							
ISC	**X**	**16 23 27 09**±1.1	**43.29S**±.068	**171.4E**±.10	**24**±13		**19**	**0-5**
WEL	X	16 23 27 08.9	43.29S	171.35E	12	4.1L		¶97x2898
WEL	Felt I=IV MM Lake Coleridge							
ISC	**X**	**27 20 14 42**±1.8	**45.6S**±.15	**167.3E**±.25	**94**		**7**	**0-5**
WEL	X	27 20 14 42.3	45.66S	167.10E	94	3.9L		¶97x4655
ISC	**X**	**28 02 44 31**±1.4	**41.77S**±.093	**172.3E**±.13	**135**±21		**16**	**0-4**
WEL	X	28 02 44 34.1	41.72S	172.26E	98	3.7L		¶97x4691
ISC	**XI**	**04 09 02 39**±2.7	**43.0S**±.11	**171.4E**±.22	**17**±36		**10**	**1-4**
WEL	XI	04 09 02 39.5	42.99S	171.36E	12	3.7L		¶97xi0606
ISC	**XI**	**04 13 55 43**±1.3	**43.01S**±.053	**171.41E**±.074	**21**±13	**4.2b,4.0s**	**56**	**1-163**
NEIC	XI	04 13 55 42.5	42.98S	171.33E	10	4.2b		¶97xi0649
WEL	XI	04 13 55 43.2	43.00S	171.37E	5	5.1L		
EIDC	XI	04 13 55 46.9	42.8S	171.3E	30	4.1b,4.0s		
NEIC	Felt from Harihari to Westport.							
WEL	Felt widely from West Coast to Lake Coleridge, I=IV MM maximum intensity							
ISC	**XI**	**15 18 46 09**±6.1	**45.0S**±.19	**167.4E**±.49	**137**±56		**7**	**0-4**
WEL	XI	15 18 46 10.6	45.04S	167.47E	127	3.9L		¶97xi2518
ISC	**XI**	**20 06 36 34**±2.3	**44.9S**±.23	**167.4E**±.29	**97**		**5**	**1-3**
WEL	XI	20 06 36 35.7	45.06S	167.48E	97	3.8L		¶97xi3409
ISC	**XI**	**21 15 21 51.8**±.83	**41.86S**±.071	**171.9E**±.11	**15**±12		**15**	**0-3**
WEL	XI	21 15 21 52.2	41.84S	171.99E	5	3.7L		¶97xi3677
ISC	**XI**	**22 08 31 47**±1.1	**42.54S**±.062	**172.9E**±.11	**18**±15		**22**	**0-5**
WEL	XI	22 08 31 46.6	42.48S	172.85E	5	4.2L		¶97xi3838
NEIC	XI	22 08 31 46.9	42.53S	172.92E	10			
NEIC	Single network solution.							
ISC	**XI**	**24 04 24 52**±1.1	**41.3S**±.15	**172.9E**±.18	**169**		**11**	**0-2**
WEL	XI	24 04 24 53.4	41.16S	172.89E	169	3.7L		¶97xi4264
ISC	**XI**	**29 21 03 31.3**±.26	**41.18S**±.043	**173.53E**±.061	**99**±4.4	**4.9b**	**109**	**0-165**
NEIC	XI	29 21 03 31.8	41.21S	173.54E	104	5.3b		¶97xi5322
WEL	XI	29 21 03 31.9	41.05S	173.50E	101	5.7L		
EIDC	XI	29 21 03 32.4	41.0S	173.7E	96	4.3b,4.0s		
HRVD	XI	29 21 03 33.7±.5	41.19S±.09	173.34E±.07	79±6.6			
BJI	XI	29 21 03 33.8	40.42S	173.06E	78	5.2b		
NEIC	Mw5.2(HRV)							
NEIC	Felt strongly in the Marlborough region. Felt from Wanganui on the North Island to Christchurch on the South Island.							
WEL	Felt Taranaki to Christchurch, maximum intensity I=V MM in Marlborough.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}1.83±.40; $M_{\theta\theta}$4.28±.96; $M_{\phi\phi}$−6.11±.73; $M_{r\theta}$1.40±.48; $M_{r\phi}$5.19±.47; $M_{\theta\phi}$2.04±.39. Principal Axes: T 6.55,Plg38°,Azm332°; N 2.24, Plg41°,Azm198°; P −8.79,Plg25°,Azm84°. Best double couple: $M_0$7.7×10^{16}Nm, NP1: ϕ_S124°,δ42°,λ12°. NP2:ϕ_S25°,δ82°,λ132°.							
ISC	**XI**	**30 11 27 44**±1.5	**45.1S**±.16	**167.5E**±.21	**96**		**6**	**0-2**
WEL	XI	30 11 27 44.0	45.14S	167.43E	96	3.8L		¶97xi5408
ISC	**XI**	**30 18 58 48**±3.4	**45.14S**±.097	**167.0E**±.41	**12**		**8**	**0-5**
WEL	XI	30 18 58 49.6	45.19S	167.06E	12	3.9L		¶97xi5449
ISC	**XII**	**09 21 17 20.2**±.89	**44.89S**±.058	**168.1E**±.12	**5**		**10**	**0-5**
WEL	XII	09 21 17 20.8	44.90S	168.01E	5	4.0L		¶97xii2240
ISC	**XII**	**12 11 49 38.3**±.86	**41.56S**±.065	**173.85E**±.091	**75**±16		**17**	**0-4**
WEL	XII	12 11 49 40.0	41.47S	173.80E	56	3.7L		¶97xii2743
WEL	Felt I=IV MM rarangi							
ISC	**XII**	**17 16 08 11.4**±.99	**41.07S**±.071	**173.1E**±.12	**170**±14		**28**	**0-5**
NEIC	XII	17 16 08 11.5	41.05S	173.06E	166			¶97xii3628
WEL	XII	17 16 08 14.5	41.05S	173.15E	142	4.7L		
NEIC	Single network solution.							
NEIC	Felt at Lower Hutt on the North Island.							
WEL	Felt I=IV MM Wellington to Blenheim							
ISC	**XII**	**19 02 12 02**±2.4	**45.5S**±.15	**167.3E**±.37	**103**		**5**	**1-2**
WEL	XII	19 02 12 02.0	45.49S	167.20E	103	3.7L		¶97xii3875
ISC	**XII**	**20 23 25 39**±1.4	**41.85S**±.084	**172.6E**±.13	**116**±20		**16**	**0-4**
WEL	XII	20 23 25 41.0	41.78S	172.60E	90	3.7L		¶97xii4182
ISC	**XII**	**21 17 11 36.4**±.49	**42.26S**±.048	**172.97E**±.075	**12**		**24**	**0-4**
WEL	XII	21 17 11 37.4	42.24S	172.97E	12	4.0L		¶97xii4283
ISC	**XII**	**22 02 42 44.0**±.81	**43.91S**±.083	**169.5E**±.13	**5**		**14**	**1-5**
WEL	XII	22 02 42 45.1	43.96S	169.57E	5	3.8L		¶97xii4339
ISC	**XII**	**22 23 07 56**±1.3	**44.5S**±.13	**168.3E**±.20	**18**±22		**7**	**0-5**
WEL	XII	22 23 07 55.6	44.58S	168.39E	5	3.7L		¶97xii4501
ISC	**XII**	**31 00 37 49**±2.1	**45.0S**±.10	**167.6E**±.31	**84**		**7**	**0-6**
WEL	XII	31 00 37 49.6	45.10S	167.45E	84	4.2L		¶97xii5810
ISC	**XII**	**31 19 21 14.2**±.89	**42.13S**±.065	**173.95E**±.094	**23**±9.9		**22**	**0-4**
WEL	XII	31 19 21 15.0	42.05S	173.91E	21	4.0L		¶97xii5955

(163) Cook Strait, New Zealand.

ISC	**VII**	**01 02 58 23.4**±.41	**41.25S**±.048	**174.44E**±.087	**57**±8.4	**3.9b**	**30**	**0-152**
EIDC	VII	01 02 58 00.2	41.8S	176.9E	0	4.1b		¶97vii0018
WEL	VII	01 02 58 25.0	41.13S	174.52E	43	4.2L		
WEL	Felt I=IV MM Paraparaumu to Blenheim							
ISC	**VIII**	**03 18 10 34.6**±.90	**40.68S**±.058	**174.6E**±.11	**126**±13		**22**	**0-6**
WEL	VIII	03 18 10 38.6	40.60S	174.60E	83	3.7L		¶97viii0391
WEL	Felt I=III MM Marton							
ISC	**VIII**	**11 16 09 01.2**±.44	**40.02S**±.043	**174.58E**±.086	**101**		**26**	**0-4**
NEIC	VIII	11 16 09 01.4	39.99S	174.64E	100			¶97viii1582
WEL	VIII	11 16 09 02.2	40.02S	174.65E	101	4.0L		
NEIC	Single network solution.							
ISC	**VIII**	**22 18 04 40.5**±.67	**41.60S**±.066	**174.02E**±.095	**75**±14		**23**	**0-5**
WEL	VIII	22 18 04 42.4	41.46S	173.94E	42	4.2L		¶97viii3261
NEIC	VIII	22 18 04 43.0	41.41S	174.06E	33			
WEL	Felt I=IV MM Blenheim and Picton							
NEIC	Single network solution.							
ISC	**VIII**	**25 02 08 13**±1.6	**41.7S**±.23	**174.3E**±.46	**9**±24		**5**	**0-1**
NEIC	VIII	25 02 08 13.3	41.67S	174.29E	10			¶97viii3624
ISC	Poorly determined							
NEIC	M_L2.5(WEL), Single network solution.							
ISC	**VIII**	**26 03 33 46**±2.9	**41.1S**±.24	**174.5E**±.17	**37**±43		**6**	**0-1**
NEIC	VIII	26 03 33 46.2	41.09S	174.50E	33			¶97viii3778
NEIC	M_L2.7(WEL), Single network solution.							
ISC	**VIII**	**27 08 44 52**±12	**40.1S**±.73	**174.9E**±.32	**10**		**5**	**1-1**
NEIC	VIII	27 08 44 51.5	40.11S	174.93E	10			¶97viii3960
NEIC	M_L3.3(WEL), Poor solution.							
ISC	**VIII**	**30 08 40 21.1**±.70	**41.58S**±.064	**174.02E**±.096	**68**±15		**23**	**0-4**
WEL	VIII	30 08 40 22.4	41.45S	173.93E	41	4.0L		¶97viii4459
NEIC	VIII	30 08 40 22.9	41.42S	174.02E	33			
WEL	Felt I=IV MM Blenheim and Picton							
NEIC	Single network solution.							
ISC	**VIII**	**31 22 26 19**±1.5	**41.4S**±.16	**174.96E**±.083	**26**±13		**9**	**0-1**
NEIC	VIII	31 22 26 18.6	41.38S	174.97E	33			¶97viii4718
NEIC	M_L2.6(WEL), Single network solution.							
ISC	**IX**	**03 22 43 07**±1.0	**40.22S**±.054	**174.3E**±.11	**142**±16		**28**	**1-4**
WEL	IX	03 22 43 09.9	40.22S	174.32E	105	3.9L		¶97ix0504
ISC	**IX**	**04 12 34 49.3**±.96	**41.3S**±.12	**174.9E**±.12	**33**		**8**	**0-1**
NEIC	IX	04 12 34 49.2	41.25S	174.88E	33			¶97ix0591
NEIC	M_L3.2(WEL), Single network solution.							
ISC	**IX**	**13 19 40 26.3**±.93	**40.22S**±.038	**174.68E**±.091	**30**±11		**21**	**0-4**
WEL	IX	13 19 40 26.4	40.23S	174.76E	21	3.7L		¶97ix2028
ISC	**IX**	**16 03 32 39**±2.6	**40.44S**±.085	**173.6E**±.14	**168**±34		**17**	**1-3**
WEL	IX	16 03 32 42.7	40.43S	173.65E	121	3.7L		¶97ix2324
ISC	**IX**	**18 13 07 28**±5.5	**41.3S**±.16	**174.8E**±.31	**23**±46		**7**	**0-1**
NEIC	IX	18 13 07 28.0	41.28S	174.84E	20			¶97ix2660
NEIC	M_L2.8(WEL), Single network solution.							
ISC	**IX**	**19 16 59 32**±1.6	**40.24S**±.054	**174.2E**±.13	**119**±28		**21**	**1-4**
WEL	IX	19 16 59 33.7	40.23S	174.28E	104	3.7L		¶97ix2818
ISC	**IX**	**20 00 47 12.5**±.69	**41.61S**±.073	**174.02E**±.099	**78**±15		**24**	**0-4**
WEL	IX	20 00 47 14.5	41.47S	173.95E	41	3.8L		¶97ix2876
WEL	Felt I=IV MM Fighting Bay							
ISC	**IX**	**26 11 55 50**±1.2	**40.3S**±.12	**173.3E**±.16	**191**		**20**	**1-5**
WEL	IX	26 11 55 52.5	40.42S	173.55E	191	3.9L		¶97ix3981
ISC	**X**	**01 03 48 17.1**±.80	**41.73S**±.057	**174.21E**±.072	**14**±7.1		**27**	**0-5**
NEIC	X	01 03 48 15.8	41.71S	174.10E	10			¶97x0019
WEL	X	01 03 48 17.0	41.65S	174.18E	5	4.5L		
NEIC	Single network solution.							
NEIC	Felt at Blenheim on the South Island and Wellington on the North Island.							
WEL	Felt Wellington to Seddon, maximum intensity I=IV MM near Seddon.							
ISC	**X**	**01 03 48 38**±1.0	**41.68S**±.085	**174.2E**±.17	**5**		**7**	**0-2**
WEL	X	01 03 48 38.3	41.66S	174.21E	5	4.2L		¶97x0020
ISC	**X**	**01 03 54 42.6**±.52	**41.73S**±.056	**174.19E**±.076	**16**±7.5		**25**	**0-4**
NEIC	X	01 03 54 42.6	41.64S	174.17E	10			¶97x0021
WEL	X	01 03 54 42.9	41.64S	174.19E	5	4.4L		
NEIC	Single network solution.							
NEIC	Felt at Blenheim on the South Island and Wellington on the North Island.							
WEL	Felt Wellington to Seddon.							
ISC	**X**	**01 04 05 32.8**±.84	**41.69S**±.060	**174.20E**±.075	**14**±8.2		**21**	**0-3**
WEL	X	01 04 05 32.8	41.67S	174.22E	5	3.7L		¶97x0022
ISC	**X**	**05 05 04 50.4**±.54	**41.75S**±.057	**174.20E**±.078	**17**±6.5	**3.7b**	**30**	**0-148**
NEIC	X	05 05 04 49.1	41.70S	174.08E	10			¶97x0800
WEL	X	05 05 04 50.8	41.65S	174.19E	5	4.7L		
EIDC	X	05 05 04 51.2	40.9S	174.2E	0	3.8b		
NEIC	Felt I=II MM Raoul Island (after TUZ)							
WEL	Felt I=IV MM Wellington to Seddon							
ISC	**X**	**05 05 10 28.4**±.86	**41.67S**±.063	**174.20E**±.084	**12**±8.7		**16**	**0-3**
WEL	X	05 05 10 28.4	41.63S	174.20E	5	3.8L		¶97x0804
WEL	Felt Blind River district. There were numerous small shakes felt during the previous hour and a half.							
ISC	**X**	**05 06 53 18.2**±.93	**41.78S**±.063	**174.26E**±.081	**11**±7.4		**22**	**0-4**
NEIC	X	05 06 53 16.7	41.68S	174.07E	10			¶97x0821
WEL	X	05 06 53 18.3	41.66S	174.22E	5	4.4L		
NEIC	M_L4.4(WEL)							
NEIC	Felt at Blenheim and Seddon on the South Island.							
WEL	Felt Seddon district.							
ISC	**X**	**05 11 31 40.0**±.83	**41.70S**±.061	**174.23E**±.076	**11**±8.0		**22**	**0-4**
NEIC	X	05 11 31 38.9	41.71S	174.11E	14			¶97x0859
WEL	X	05 11 31 40.0	41.64S	174.20E	5	4.0L		
ISC	**X**	**18 11 32 47.6**±.86	**41.46S**±.064	**174.18E**±.077	**65**±17		**21**	**0-3**
WEL	X	18 11 32 48.9	41.43S	174.17E	50	3.7L		¶97x3149
NEIC	X	18 11 32 49.3	41.35S	174.19E	33			
WEL	Felt I=IV MM Fighting Bay							
NEIC	Single network solution.							
ISC	**X**	**25 08 57 52.1**±.48	**41.11S**±.054	**174.78E**±.062	**33**±5.4		**19**	**0-3**
NEIC	X	25 08 57 51.9	41.07S	174.79E	33			¶97x4303
WEL	X	25 08 57 52.3	41.07S	174.80E	30	3.7L		
NEIC	Felt at Whitby on the North Island.							
ISC	**X**	**29 13 13 49.4**±.71	**40.08S**±.075	**173.7E**±.13	**167**		**22**	**1-5**
WEL	X	29 13 13 50.5	40.10S	173.73E	167	3.9L		¶97x4915
ISC	**XI**	**03 08 03 26.8**±.75	**41.66S**±.048	**174.18E**±.066	**10**±7.3		**20**	**0-4**
NEIC	XI	03 08 03 26.8	41.65S	174.17E	10			¶97xi0432
WEL	XI	03 08 03 27.1	41.65S	174.21E	5	4.1L		
NEIC	Single network solution.							
WEL	Felt aboard the Marlborough Express.							
ISC	**XI**	**07 11 43 42.7**±.94	**42.00S**±.073	**174.20E**±.083	**19**±10		**19**	**0-4**
NEIC	XI	07 11 43 42.7	41.94S	174.10E	23			¶97xi1120
WEL	XI	07 11 43 44.3	41.84S	174.15E	12	3.8L		
NEIC	Single network solution.							
ISC	**XI**	**18 21 50 48.6**±.67	**40.61S**±.072	**173.3E**±.11	**156**		**23**	**1-5**
WEL	XI	18 21 50 49.8	40.62S	173.32E	156	3.9L		¶97xi3069
ISC	**XI**	**24 02 23 55.8**±.29	**40.49S**±.037	**174.65E**±.070	**72**±5.6	**4.4b**	**66**	**0-157**
NEIC	XI	24 02 23 56.0	40.47S	174.61E	70	4.6b		¶97xi4249
WEL	XI	24 02 23 56.5	40.49S	174.65E	74	5.2L		
EIDC	XI	24 02 24 15.7	40.3S	174.3E	230	3.9b		
NEIC	Felt at Palmerston North, Wanganui and Wellington.							
WEL	Felt Lower North Island, maximum intensity I=V MM near Foxton.							
ISC	**XI**	**24 17 45 53**±1.1	**40.45S**±.054	**174.60E**±.090	**64**±24		**18**	**0-2**
WEL	XI	24 17 45 53.7	40.48S	174.60E	60	3.7L		¶97xi4356
ISC	**XI**	**27 20 20 41**±1.4	**41.3S**±.10	**174.4E**±.11	**38**±19		**11**	**0-1**
NEIC	XI	27 20 20 41.3	41.31S	174.37E	37			¶97xi4929
NEIC	Single network solution.							
ISC	**XI**	**30 04 38 15.5**±.49	**40.82S**±.035	**174.78E**±.054	**5**		**20**	**0-3**
WEL	XI	30 04 38 15.5	40.81S	174.77E	5	3.8L		¶97xi5361
ISC	**XII**	**02 02 22 01.0**±.44	**40.50S**±.047	**174.6E**±.10	**82**±7.9	**4.0b**	**33**	**0-166**
EIDC	XII	02 02 21 55.0±1.47	40.7S	174.2E	0	4.1b		¶97xii0171
NEIC	XII	02 02 22 01.5	40.46S	174.44E	71	4.2b		
WEL	XII	02 02 22 02.9	40.47S	174.63E	62	4.5L		
EIDC	Error ellipse is semi−major=52.3km semi−minor=33.4km azimuth=48							
WEL	Felt Wanganui to Wellington, maximum intensity I=IV MM							
ISC	**XII**	**05 20 12 01.7**±.37	**40.47S**±.035	**174.60E**±.065	**63**		**37**	**0-5**
WEL	XII	05 20 12 02.7	40.49S	174.66E	63	4.3L		¶97xii1070
NEIC	XII	05 20 12 02.8	40.44S	174.61E	33			
NEIC	Single network solution.							

Agency	mo	Origin Time d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**05 20 57 18**±1.6	**40.15S**±.034	**174.44E**±.071	**8**±14		**24**	**1-3**
NEIC	XII	05 20 57 17.7	40.11S	174.39E	10			¶97xii1090
WEL	XII	05 20 57 18.6	40.16S	174.46E	5	3.8L		
NEIC	Single network solution.							
ISC	**XII**	**07 18 13 37**±1.7	**40.18S**±.085	**173.6E**±.13	**201**±20		**23**	**1-4**
WEL	XII	07 18 13 42.1	40.23S	173.66E	150	3.8L		¶97xii1756
ISC	**XII**	**17 06 39 36**±3.0	**40.6S**±.37	**173.7E**±.34	**100**		**8**	**0-1**
NEIC	XII	17 06 39 35.8	40.66S	173.74E	100			¶97xii3564
NEIC	Poor solution.							
ISC	**XII**	**20 20 14 49**±1.3	**41.1S**±.11	**174.99E**±.087	**33**±19		**10**	**0-1**
NEIC	XII	20 20 14 48.6	41.15S	175.00E	33			¶97xii4163
NEIC	M_L3.5(WEL), Single network solution.							
ISC	**XII**	**28 16 39 31.6**±.81	**40.41S**±.042	**174.69E**±.085	**95**±14		**27**	**0-6**
NEIC	XII	28 16 39 32.9	40.26S	174.70E	33			¶97xii5476
WEL	XII	28 16 39 33.2	40.40S	174.71E	79	4.2L		
NEIC	Poor solution.							

(164) Off east coast of South Island, N.Z.

ISC	**VIII**	**20 12 46 33**±1.4	**42.39S**±.073	**174.0E**±.10	**19**±14		**27**	**0-5**
WEL	VIII	20 12 46 33.5	42.32S	173.99E	12	4.4L		¶97viii2964
ISC	**VIII**	**24 22 22 33**±1.3	**42.41S**±.078	**174.1E**±.12	**24**±13		**20**	**0-5**
WEL	VIII	24 22 22 33.1	42.33S	174.02E	12	4.0L		¶97viii3600

(165) North of Macquarie Island.

EIDC	**VIII**	**31 14 20 37.6**	**49.7S**	**159.3E**	**0**	**3.3b**		**22-36**
								¶97viii4665

(166) Auckland Islands region.

ISC	**VII**	**05 14 30 20**±4.7	**49.1S**±.56	**164.5E**±.33	**33**	3.7b	**5**	**3-38**
								¶97vii0742
ISC	**VII**	**06 02 39 53**±1.3	**49.5S**±.15	**164.8E**±.28	**58**±29	**4.2b**	**12**	**3-38**
								¶97vii0828
ISC	**VIII**	**01 23 09 31.6**±.77	**49.62S**±.097	**164.35E**±.082	**10**	**4.7b,4.3s**	**60**	**4-161**
NEIC	VIII	01 23 09 32.5	49.61S	164.04E	10	4.6b		¶97viii0129
EIDC	VIII	01 23 09 32.7	49.6S	164.1E	0	4.3s,4.8b		
NEIC	Less reliable solution.							

(167) Macquarie Island region.

EIDC	**VII**	**02 02 05 24.5**	**55.0S**	**158.1E**	**0**	**4.0b,4.4s**		**36-43**
								¶97vii0165
EIDC	**VII**	**02 08 36 17.6**	**53.5S**	**159.9E**	**0**	**3.8b,**3.4s		**8-154**
								¶97vii0206
EIDC	**X**	**26 10 20 47.9**	**57.6S**	**161.0E**	**0**	**3.8b**		¶97x4449
EIDC	LO CONF Location							

SEISMIC REGION 12. KERMADEC-TONGA-SAMOA AREA.

(169) Samoa region.

ISC	**VII**	**01 11 37 34.2**±.71	**14.9S**±.22	**173.9W**±.18	**33**	**4.0b,3.8s**	**13**	**2-90**
EIDC	VII	01 11 37 30.5	14.8S	174.0W	0	3.9b,4.0s		¶97vii0078
NEIC	VII	01 11 37 34.2	14.96S	173.91W	33	4.2b		
NEIC	Less reliable solution.							
ISC	**VII**	**07 01 43 45**±3.8	**11.4S**±.83	**175.8W**±.87	**33**	**4.4b**	**7**	**44-79**
EIDC	VII	07 01 43 43.5	10.8S	176.4W	0	4.2b		¶97vii0969
EIDC	**VII**	**07 22 06 37.8**	**16.4S**	**171.6W**	**0**	**4.2b**		**40-51**
								¶97vii1096
EIDC	**VII**	**10 09 20 32.6**	**16.2S**	**170.5W**	**0**	**3.7b**		**41-79**
								¶97vii1486
EIDC	**VII**	**26 13 04 52.1**	**16.0S**	**173.0W**	**687**	**2.9b**		**44-165**
								¶97vii3969
ISC	**VII**	**27 12 18 46**±2.1	**14.8S**±.69	**175.3W**±.53	**33**	**4.1b**	**8**	**43-145**
EIDC	VII	27 12 18 41.8	14.8S	175.1W	0	4.0b		¶97vii4106
NEIC	VII	27 12 18 45.7	14.88S	175.25W	33	4.4b		
NEIC	Poor solution.							
EIDC	**VII**	**28 17 18 20.7**	**16.5S**	**172.5W**	**0**	**4.2b**		**37-51**
								¶97vii4307
EIDC	**VII**	**29 22 57 14.8**	**15.8S**	**170.7W**	**0**	**4.1b**		**41-63**
								¶97vii4498
ISC	**VII**	**30 00 21 48**±1.8	**15.4S**±.64	**169.5W**±.47	**33**	**3.6b**	**5**	**47-82**
EIDC	VII	30 00 21 44.8	15.3S	169.5W	0	3.6b		¶97vii4508
ISC	**VII**	**31 15 17 21**±1.5	**16.2S**±.27	**172.6W**±.27	**33**	**3.9b**	**6**	**50-83**
EIDC	VII	31 15 17 18.1	16.1S	172.6W	0	3.8b		¶97vii4746
NEIC	VII	31 15 17 21.4	16.24S	172.63W	33	4.2b		
NEIC	Poor solution.							
ISC	**VIII**	**04 19 39 06.8**±.97	**14.8S**±.27	**175.7W**±.30	**33**	**3.9b**	**9**	**4-145**
EIDC	VIII	04 19 39 03.5	14.7S	175.7W	0	3.9b		¶97viii0537
NEIC	VIII	04 19 39 06.6	14.75S	175.73W	33			
NEIC	Poor solution.							
EIDC	**VIII**	**06 13 02 34.1**	**15.6S**	**172.9W**	**0**	**4.4b**		**41-146**
								¶97viii0799
EIDC	**VIII**	**13 13 55 49.3**	**13.9S**	**174.6W**	**0**	**3.8b**		**49-82**
								¶97viii1914
ISC	**VIII**	**16 18 31 59.7**±.81	**16.5S**±.23	**172.7W**±.19	**33**	**3.9b**	**9**	**44-147**
EIDC	VIII	16 18 31 56.7	16.4S	172.7W	0	3.9b		¶97viii2401
NEIC	VIII	16 18 31 59.7	16.49S	172.70W	33			
NEIC	Poor solution.							
ISC	**VIII**	**19 16 59 45**±1.8	**11.0S**±.68	**172.8W**±.45	**33**	**3.9b**	**5**	**52-79**
EIDC	VIII	19 16 59 40.7	11.2S	172.5W	0	4.1b		¶97viii2841
EIDC	**VIII**	**19 17 54 19.1**	**16.1S**	**173.0W**	**0**	**4.4b**		**39-50**
								¶97viii2846
EIDC	**VIII**	**22 21 41 33.3**	**16.2S**	**170.4W**	**0**	**3.8b**		**46-79**
								¶97viii3289
EIDC	**VIII**	**23 06 47 59.9**	**15.0S**	**172.1W**	**0**	**4.1b**		**45-51**
								¶97viii3359
ISC	**VIII**	**25 16 34 03**±1.6	**15.9S**±.30	**172.4W**±.38	**33**	**3.8b**	**6**	**2-147**
NEIC	VIII	25 16 34 02.1	15.96S	172.39W	33	4.2b		¶97viii3713
EIDC	VIII	25 16 34 07.6	15.8S	172.4W	65	3.4b,3.8L		
NEIC	Poor solution.							
EIDC	**VIII**	**28 16 26 04.8**	**15.0S**	**169.4W**	**0**	**3.9b**		**48-54**
								¶97viii4165
ISC	**VIII**	**29 17 33 48.6**±.97	**15.6S**±.24	**172.8W**±.21	**10**	**4.2b,**4.0s	**22**	**2-146**
NEIC	VIII	29 17 33 48.3	15.39S	172.88W	10	4.1b		¶97viii4354
EIDC	VIII	29 17 33 48.7	15.2S	172.9W	0	4.2b,4.2s		
NEIC	Less reliable solution.							
ISC	**VIII**	**31 21 45 52.5**±.59	**14.9S**±.22	**173.7W**±.17	**33**	**4.3b,4.1s**	**28**	**2-150**
EIDC	VIII	31 21 45 48.7	15.1S	173.5W	0	3.9s,4.2b		¶97viii4715
NEIC	VIII	31 21 45 52.6	14.99S	173.64W	33	4.4b,4.3s		
NEIC	Less reliable solution.							
EIDC	**IX**	**03 15 41 44.6**	**16.6S**	**172.8W**	**0**	**3.7b**		**¶97ix0443**
EIDC	**IX**	**12 02 40 04.4**	**15.6S**	**172.6W**	**0**	**4.2b**		**¶97ix1762**
EIDC	LO CONF Location							
EIDC	**IX**	**14 04 33 46.0**	**15.1S**	**168.3W**	**0**	**4.1b**		**¶97ix2070**
EIDC	LO CONF Location							
EIDC	**IX**	**16 15 38 19.5**	**16.5S**	**172.2W**	**0**	3.7b		**¶97ix2404**
EIDC	LO CONF Location							
EIDC	**IX**	**17 17 40 12.1**	**15.5S**	**171.7W**	**0**	**3.7b**		**¶97ix2540**
EIDC	**IX**	**17 17 50 37.3**	**15.1S**	**170.9W**	**0**	**3.5b**		**¶97ix2542**
EIDC	**IX**	**19 07 24 31.0**	**17.0S**	**173.0W**	**0**	**4.2b**		**¶97ix2757**
ISC	**IX**	**19 09 15 34.9**±.60	**15.9S**±.20	**172.2W**±.15	**36**±3.1*	**4.1b,**3.9s	**27**	**2-154**
NEIC	IX	19 09 15 34.7	15.97S	172.18W	33	4.2b		¶97ix2769
EIDC	IX	19 09 15 37.3	15.9S	172.4W	33	4.0b,3.9s		
NEIC	Poor solution.							
EIDC	**IX**	**21 21 44 19.1**	**15.2S**	**170.4W**	**0**	**3.9b**		**¶97ix3169**
EIDC	LO CONF Location							
EIDC	**IX**	**22 06 02 50.9**	**15.0S**	**173.2W**	**0**	**3.9b**		**¶97ix3228**
EIDC	LO CONF Location							
ISC	**IX**	**23 02 45 02**±1.3	**16.5S**±.16	**172.3W**±.24	**33**	**4.5b**	**11**	**3-62**
NEIC	IX	23 02 45 01.7	16.50S	172.37W	33	4.6b		¶97ix3362
EIDC	IX	23 02 45 08.9	16.0S	172.0W	114	4.0b,3.8L		
NEIC	Less reliable solution.							
ISC	**IX**	**23 11 55 58.6**±.60	**15.0S**±.23	**173.8W**±.15	**33**	**4.2b**	**15**	**2-145**
EIDC	IX	23 11 55 55.4	14.9S	173.9W	0	4.0b,4.0L		¶97ix3412
NEIC	IX	23 11 55 58.5	14.99S	173.81W	33	4.4b		
NEIC	Less reliable solution.							
EIDC	**IX**	**25 20 10 55.5**	**16.3S**	**170.4W**	**0**	**3.8b**		**¶97ix3787**
EIDC	LO CONF Location							
EIDC	**IX**	**26 18 47 48.7**	**15.0S**	**171.4W**	**0**	**4.2b**		**¶97ix4112**
EIDC	**IX**	**28 12 39 24.1**	**16.4S**	**170.1W**	**0**	**3.5b**		**¶97ix4650**
EIDC	LO CONF Location							
EIDC	**IX**	**28 17 01 05.2**	**13.5S**	**174.3W**	**0**	**4.0b**		**¶97ix4709**
EIDC	LO CONF Location							
EIDC	**X**	**05 06 09 19.2**	**16.7S**	**171.5W**	**0**	**4.5b**		**¶97x0814**
EIDC	LO CONF Location							
EIDC	**X**	**05 06 10 28.0**	**16.2S**	**171.1W**	**0**	**4.5b**		**¶97x0815**
EIDC	LO CONF Location							
ISC	**X**	**05 17 49 52**±1.7	**14.2S**±.76	**174.4W**±.46	**33**	**4.1b**	**14**	**49-149**
EIDC	X	05 17 49 47.6	14.3S	174.3W	0	4.0b		¶97x0897
NEIC	X	05 17 49 51.4	14.29S	174.38W	33	4.3b		
NEIC	Poor solution.							
EIDC	**X**	**05 17 53 16.1**	**13.2S**	**175.4W**	**0**	**3.4b**		**¶97x0898**
EIDC	**X**	**12 12 39 26.9**	**17.0S**	**172.9W**	**0**	**3.6b**		**¶97x2042**
EIDC	**X**	**12 22 10 50.5**	**15.4S**	**171.1W**	**0**	**4.0b**		**¶97x2114**
ISC	**X**	**24 19 55 55**±1.3	**16.6S**±.16	**171.8W**±.25	**52**	**4.0b**	**5**	**3-88**
EIDC	X	24 19 55 56.5	16.6S	171.7W	52	4.0b		¶97x4216
EIDC	**X**	**30 11 58 56.0**	**15.2S**	**168.7W**	**0**	**3.8b**		**¶97x5035**
EIDC	LO CONF Location							
ISC	**X**	**31 06 05 48.9**±.87	**13.8S**±.27	**174.2W**±.20	**33**	**4.2b**	**10**	**44-94**
EIDC	X	31 06 06 27.6	14.5S	174.2W	394	3.5b		¶97x5143
ISC	**XI**	**01 00 02 51.7**±.27	**16.65S**±.074	**172.78W**±.060	**33**	**5.0b,5.3s**	**243**	**3-166**
EIDC	XI	01 00 02 47.0	16.9S	172.7W	0	4.8b,5.3s		¶97xi0001
BJI	XI	01 00 02 51.3	16.60S	172.90W	33	5.2b,5.5s		
NEIC	XI	01 00 02 51.3	16.61S	172.95W	33	5.0b,5.4s		
MOS	XI	01 00 02 56.2	16.3S	174.0W	33	5.8b		
HRVD	XI	01 00 02 56.2±.2	16.70S±.03	172.18W±.03	15			
NEIC	Mw5.6(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c49; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}2.08±.05; $M_{\theta\theta}$−0.15±.07; $M_{\phi\phi}$−1.93±.07; $M_{r\theta}$0.22±.15; $M_{r\phi}$1.29±.15; $M_{\theta\phi}$−0.29±.06. Principal Axes: T 2.46,Plg74°,Azm280°; N −0.10, Plg0°,Azm189°; P −2.36,Plg16°,Azm99°. Best double couple: M_O2.4×10^{17}Nm, NP1:ϕ_S189°, δ29°,λ90°. NP2:ϕ_S9°,δ61°,λ90°.							
EIDC	**XI**	**02 06 48 50.4**	**15.4S**	**170.9W**	**0**	**4.1b**		**¶97xi0210**
EIDC	**XI**	**05 17 53 09.4**	**15.3S**	**167.4W**	**0**	**3.6b**		**¶97xi0838**
EIDC	LO CONF Location							
EIDC	**XI**	**08 18 25 27.0**	**14.4S**	**174.8W**	**0**	**3.8b**		**¶97xi1331**
EIDC	LO CONF Location							
ISC	**XI**	**09 15 47 31.5**±.68	**15.0S**±.22	**173.9W**±.16	**33**	**4.3b**	**15**	**2-146**
EIDC	XI	09 15 47 27.8	15.1S	173.7W	0	4.3b		¶97xi1467
NEIC	XI	09 15 47 31.4	15.04S	173.86W	33	4.3b		
NEIC	Less reliable solution.							
EIDC	**XI**	**12 11 03 30.8**	**16.6S**	**172.2W**	**0**	**3.9b**		**¶97xi1971**
EIDC	LO CONF Location							
EIDC	**XI**	**13 18 13 48.8**	**15.8S**	**171.8W**	**0**	**4.3b**		**¶97xi2177**
EIDC	**XI**	**14 10 43 10.1**	**15.4S**	**166.2W**	**0**	**3.8b**		**¶97xi2277**
EIDC	LO CONF Location							
ISC	**XI**	**19 12 09 25.4**±.34	**14.7S**±.10	**175.79W**±.065	**33**	**4.9b,5.4s**	**217**	**4-168**
EIDC	XI	19 12 09 20.9	15.2S	175.5W	0	4.7b		¶97xi3213
BJI	XI	19 12 09 24.4	14.71S	175.96W	18	5.2b,5.5s		
NEIC	XI	19 12 09 26.0	14.50S	175.88W	33	5.1b,5.4s		
HRVD	XI	19 12 09 28.5±.2	14.64S±.03	175.54W±.02	15			
NEIC	Mw5.7(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c61; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.31±.05; $M_{\theta\theta}$0.08±.07; $M_{\phi\phi}$0.23±.08; $M_{r\theta}$−0.57±.19; $M_{r\phi}$0.58±.24; $M_{\theta\phi}$3.80±.05. Principal Axes: T 3.96,Plg0°,Azm314°; N −0.12, Plg77°,Azm223°; P −3.84,Plg13°,Azm44°. Best double couple: M_O3.9×10^{17}Nm, NP1:ϕ_S89°, δ81°,λ−9°. NP2:ϕ_S180°,δ81°,λ−171°.							
ISC	**XI**	**20 17 14 13.6**±.73	**14.9S**±.36	**175.4W**±.18	**33**	**3.9b**	**13**	**4-145**
EIDC	XI	20 17 14 10.5	14.6S	175.6W	0	3.9b,4.2L		¶97xi3503
NEIC	XI	20 17 14 13.2	14.80S	175.45W	33	4.0b		
NEIC	Poor solution.							
EIDC	**XI**	**21 15 16 30.2**	**15.4S**	**165.7W**	**0**	**4.4b**		**¶97xi3675**
EIDC	LO CONF Location							
EIDC	**XI**	**23 02 33 14.5**	**15.1S**	**172.5W**	**0**	**3.8b**		**¶97xi4008**
EIDC	LO CONF							
ISC	**XI**	**23 20 04 06.3**±.99	**14.9S**±.33	**173.8W**±.26	**33**	**4.1b,**3.8s	**11**	**44-146**
EIDC	XI	23 20 04 02.2	15.1S	173.5W	0	4.2b,3.8s		¶97xi4186
NEIC	XI	23 20 04 06.2	14.98S	173.74W	33	4.0b		
NEIC	Poor solution.							
ISC	**XII**	**07 18 03 01**±1.1	**14.9S**±.41	**174.8W**±.25	**33**	**3.8b**	**5**	**49-95**
EIDC	XII	07 18 02 57.1±3.24	15.0S	174.7W	0	3.8b		¶97xii1752
EIDC	Error ellipse is semi−major=181.8km semi−minor=27.7km azimuth=146							
EIDC	**XII**	**10 00 41 35.2**±4.04	**14.4S**	**165.7W**	**0**	**4.0b**		**57-132**
								¶97xii2270
EIDC	Error ellipse is semi−major=478.8km semi−minor=27.0km azimuth=154LO CONF							

Location
EIDC XII 10 14 32 25.2 15.4S 165.1W 0 4.1b 28-61
¶97xii2369

EIDC Origin time error = 87.70Error ellipse is semi−major=1823.5km semi−minor=236.0km azimuth=83LO CONF

ISC XII 14 23 08 17±1.3 **15.0S**±.50 **174.1W**±.35 **33 3.9b 10 3-145**
EIDC XII 14 23 08 13.6±1.58 14.9S 174.1W 0 3.9b **¶97xii3206**
EIDC Error ellipse is semi−major=96.4km semi−minor=23.7km azimuth=146
ISC XII 16 16 57 35±2.2 **14.3S**±.29 **174.0W**±.38 **33 4.1b 5 44-86**
EIDC XII 16 16 57 35.5 14.9S 174.3W 0 4.0b **¶97xii3480**
EIDC Origin time error = 11.75Error ellipse is semi−major=281.1km semi−minor=43.1km azimuth=32
EIDC XII 27 02 10 19.0 14.8S 166.6W 0 3.8b 50-57
¶97xii5230

EIDC Origin time error = 89.74Error ellipse is semi−major=1842.0km semi−minor=218.4km azimuth=82LO CONF Location
EIDC XII 28 17 58 44.5±5.82 **15.1S 170.9W 0 3.9b 46-82**
¶97xii5479

EIDC Error ellipse is semi−major=256.6km semi−minor=35.7km azimuth=136LO CONF Location
EIDC XII 31 21 30 54.5 15.4S 172.1W 0 4.2b 45-51
¶97xii5974

EIDC Origin time error = 98.81Error ellipse is semi−major=1912.4km semi−minor=190.9km azimuth=79LO CONF LocationMultiple, same az

(170) Samoa.

EIDC VII 23 18 16 29.5 14.4S 169.4W 0 3.7b 48-54
¶97vii3564
EIDC VIII 06 11 28 51.7 13.5S 169.2W 0 4.0b 54-66
¶97viii0792
EIDC VIII 15 19 35 59.9 14.0S 170.9W 0 3.5b 53-81
¶97viii2262
EIDC VIII 22 14 42 20.5 14.3S 171.7W 0 4.3b 39-52
¶97viii3240
EIDC IX 10 09 49 34.1 14.5S 168.0W 0 3.7b ¶97ix1509
EIDC LO CONF Location
EIDC IX 10 11 29 38.4 14.8S 170.5W 0 4.0b ¶97ix1520
EIDC LO CONF
EIDC IX 12 23 09 45.9 14.4S 168.4W 0 4.5b ¶97ix1885
EIDC LO CONF Location
EIDC IX 18 03 50 44.6 15.0S 170.4W 0 4.4b ¶97ix2610
EIDC LO CONF Location
EIDC X 24 09 26 05.8 15.0S 170.4W 0 4.2b ¶97x4139
EIDC LO CONF Location
EIDC XI 03 16 53 18.9 14.9S 170.3W 0 3.8b ¶97xi0496
EIDC LO CONF
ISC XI 14 22 43 43.7±.62 **15.0S**±.23 **172.6W**±.17 **33 4.3b 50 1-165**
EIDC XI 14 22 43 40.2 14.8S 172.6W 0 4.3b **¶97xi2368**
NEIC XI 14 22 43 43.8 14.92S 172.63W 33 4.5b
EIDC Multiple, mixed az
NEIC Less reliable solution.
EIDC XII 01 06 36 39.0 14.6S 169.7W 0 4.3b,4.3s **48-54**
¶97xii0045

EIDC Origin time error = 96.80Error ellipse is semi−major=1920.5km semi−minor=224.3km azimuth=80Aftershock: abbreviated analysisLO CONF Location
ISC XII 02 07 49 54±1.6 **15.0S**±.90 **172.6W**±.52 **33 4.1b 7 45-80**
EIDC XII 02 07 49 50.8±1.82 15.1S 172.5W 0 4.2b **¶97xii0213**
EIDC Error ellipse is semi−major=168.8km semi−minor=21.8km azimuth=150
EIDC XII 14 12 31 08.1 14.8S 171.5W 0 4.4b 46-52
¶97xii3146

EIDC Origin time error = 106.00Error ellipse is semi−major=2064.2km semi−minor=188.3km azimuth=79LO CONF Location
EIDC XII 19 17 14 19.5±3.92 **13.3S 171.0W 0 3.7b 53-78**
¶97xii3999

EIDC Error ellipse is semi−major=569.1km semi−minor=27.9km azimuth=155
EIDC XII 23 19 12 22.5 14.8S 169.3W 0 4.1b 43-54
¶97xii4646

EIDC Origin time error = 25.24Error ellipse is semi−major=485.1km semi−minor=195.9km azimuth=69LO CONF Location
EIDC XII 31 08 04 11.9 14.9S 172.6W 0 4.3b 45-53
¶97xii5862

EIDC Origin time error = 101.62Error ellipse is semi−major=1958.8km semi−minor=190.5km azimuth=79LO CONF Location

(171) South of Fiji.

ISC VII 01 21 39 31±5.1 **24.3S**±.23 **177.6W**±.22 **268**±48 **3.6b 10 15-91**
EIDC VII 01 21 39 02.5 23.8S 177.3W 0 4.0b **¶97vii0142**
NEIC VII 01 21 39 23.3 24.85S 177.13W 200 4.1b
NEIC Poor solution.
ISC VII 03 22 52 39±1.2 **23.9S**±.41 **179.9W**±.20 **454 4.1b 13 32-143**
NEIC VII 03 22 52 38.4 23.95S 179.93W 454 4.2b **¶97vii0463**
EIDC VII 03 22 52 40.8 24.0S 179.9W 472 3.7b
NEIC Poor solution.
EIDC VII 04 23 11 00.4 24.2S 179.7E 0 3.6b 42-92
¶97vii0634

ISC VII 05 23 21 29.4±.85 **22.06S**±.052 **179.28W**±.047 **576**±12 **4.9b 313 11-164**
BJI VII 05 23 21 29.8 22.05S 179.35W 584 5.2b **¶97vii0807**
NEIC VII 05 23 21 30.1 22.02S 179.33W 587 4.9b
EIDC VII 05 23 21 31.1 22.0S 179.3W 586 4.3b
HRVD VII 05 23 21 34.3±.5 21.89S±.04 179.07W±.04 607±2.2
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c54; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.04±.04; $M_{\theta\theta}$0.31±.06; $M_{\phi\phi}$0.73±.06; $M_{r\theta}$−0.23±.06; $M_{r\phi}$−0.28±.06; $M_{\theta\phi}$0.39±.07. Principal Axes: T 1.02,Plg10°,Azm121°; N 0.09, Plg2°,Azm211°; P −1.11,Plg80°,Azm315°. Best double couple: M0 1.1×10^{17}Nm, NP1: ϕ_S208°,δ35°,λ−94°. NP2:ϕ_S33°,δ55°,λ−87°.
ISC VII 09 00 28 08±2.6 **24.2S**±.14 **179.8E**±.14 **562**±35 **3.9b 54 12-164**
EIDC VII 09 00 28 02.7 24.3S 180.0W 495 3.5b **¶97vii1255**
NEIC VII 09 00 28 06.9 24.25S 179.81E 550 4.0b
ISC VII 09 11 54 16±1.4 **23.6S**±.58 **179.7E**±.28 **600 3.9b 13 28-154**
NEIC VII 09 11 54 15.8 23.62S 179.71E 600 4.0b **¶97vii1331**
EIDC VII 09 11 54 16.0 23.5S 179.7E 587 3.3b
NEIC Poor solution.
ISC VII 10 15 16 26±4.2 **24.1S**±.13 **177.9W**±.16 **326**±40 **3.9b 32 15-154**
NEIC VII 10 15 16 22.7 24.02S 177.81W 300 4.3b **¶97vii1527**
EIDC VII 10 15 16 24.8 24.0S 177.8W 302 3.7b
NEIC Less reliable solution.
ISC VII 10 21 41 15±4.0 **23.8S**±.22 **179.8W**±.16 **533**±48 **3.9b 23 15-155**
NEIC VII 10 21 41 15.9 23.70S 179.83W 550 4.1b **¶97vii1571**
EIDC VII 10 21 41 16.5 23.6S 179.8W 542 3.3b
NEIC Less reliable solution.
EIDC VII 12 06 17 55.0 23.5S 179.8W 0 4.0b 35-142
¶97vii1779
ISC VII 12 06 34 49±1.9 **21.8S**±.47 **179.0E**±.34 **376 3.4b 13 35-155**
EIDC VII 12 06 34 50.0 22.0S 179.1E 376 3.2b **¶97vii1782**
EIDC VII 12 13 04 27.8 20.9S 178.0E 0 3.7b 34-41
¶97vii1820
EIDC VII 13 22 49 27.9 24.3S 178.2W 0 4.1b 36-143
¶97vii2034
EIDC VII 14 12 04 31.8 21.7S 179.6E 0 3.9b 35-42
¶97vii2126
EIDC VII 14 12 15 08.6 22.5S 179.6W 0 3.7b 36-43
¶97vii2127
ISC VII 14 14 47 19±2.0 **23.9S**±.33 **179.5W**±.14 **490**±30 **3.7b 19 5-164**
NEIC VII 14 14 47 29.2 23.26S 179.75E 600 **¶97vii2152**
EIDC VII 14 14 47 32.4 23.6S 179.8E 620 3.2b
NEIC Poor solution.
ISC VII 17 13 35 15±5.2 **25.7S**±.46 **179.1E**±.40 **551**±53 **3.9b 16 12-152**
EIDC VII 17 13 35 15.2 25.8S 179.2E 551 3.2b **¶97vii2602**
NEIC VII 17 13 35 18.8 25.47S 178.88E 600 4.0b
NEIC Poor solution.
EIDC VII 17 23 53 48.5 25.1S 178.2W 0 4.3b 36-144
¶97vii2665
ISC VII 18 15 14 24±1.7 **22.7S**±.65 **176.5W**±.36 **33 4.0b 8 38-90**
EIDC VII 18 15 14 20.3 22.7S 176.4W 0 4.0b **¶97vii2759**
ISC VII 21 00 53 55±4.2 **25.1S**±.28 **179.9E**±.18 **490**±57 **3.5b 10 14-143**
NEIC VII 21 00 53 54.8 25.01S 179.87E 500 3.6b **¶97vii3167**
EIDC VII 21 00 53 57.8 24.8S 179.9E 525 3.0b
NEIC Poor solution.
ISC VII 22 21 22 13±7.0 **24.1S**±.46 **177.5W**±.28 **77**±56 **4.3b 28 15-164**
EIDC VII 22 21 22 02.1 24.3S 177.3W 0 4.2s,4.4b **¶97vii3433**
NEIC VII 22 21 22 07.8 24.07S 177.40W 33 4.5b
NEIC Poor solution.
ISC VII 23 09 26 51±1.8 **23.2S**±.75 **176.2W**±.35 **33 4.0b 7 35-93**
EIDC VII 23 09 26 48.3 22.8S 176.3W 0 4.0b **¶97vii3508**
ISC VII 24 03 48 07±1.6 **23.6S**±.64 **180.0E**±.34 **482 3.6b 10 28-142**
EIDC VII 24 03 48 07.9 23.6S 179.9W 482 3.2b **¶97vii3605**
ISC VII 24 23 30 40±1.0 **24.6S**±.23 **177.6W**±.19 **100 3.8b 10 5-143**
EIDC VII 24 23 30 28.6 24.6S 177.4W 0 3.9b **¶97vii3737**
NEIC VII 24 23 30 40.1 24.59S 177.61W 100 4.0b
NEIC Poor solution.
ISC VII 25 03 44 12±1.9 **26.1S**±.18 **178.8W**±.26 **375**±17 **3.5b 15 3-154**
NEIC VII 25 03 44 19.4 25.99S 178.99W 450 3.9b **¶97vii3765**
EIDC VII 25 03 44 33.4 26.3S 179.6W 573 3.1b
NEIC Poor solution.
ISC VII 26 03 51 04.0±.96 **24.6S**±.13 **179.8E**±.16 **550 3.8b 16 16-153**
NEIC VII 26 03 51 00.5 24.34S 179.80E 500 4.0b **¶97vii3909**
EIDC VII 26 03 51 13.4 24.3S 179.4E 645 3.0b
NEIC Poor solution.
ISC VII 26 08 53 45±1.2 **24.99S**±.081 **179.6W**±.10 **517**±14 **4.5b 80 5-154**
EIDC VII 26 08 53 41.8 24.7S 179.5W 471 4.0b **¶97vii3943**
NEIC VII 26 08 53 48.3 24.71S 179.89W 550 4.8b
ISC VII 28 15 45 18±3.9 **25.8S**±.20 **177.9W**±.18 **245**±32 **4.1b 40 15-157**
BJI VII 28 15 45 21.7 26.43S 177.65W 313 **¶97vii4297**
NEIC VII 28 15 45 23.8 25.55S 178.18W 300 4.2b
EIDC VII 28 15 45 27.0 25.8S 178.1W 322 3.7b
NEIC Less reliable solution.
ISC VII 28 19 57 09±1.6 **26.2S**±.11 **178.09W**±.074 **192**±16 **4.4b 142 3-166**
EIDC VII 28 19 57 02.4 26.4S 177.7W 135 4.4b **¶97vii4322**
NEIC VII 28 19 57 10.0 26.17S 178.12W 200 4.3b
BJI VII 28 19 57 10.1 25.74S 177.80W 197 5.0b
ISC VII 28 23 23 32.4±.55 **25.1S**±.16 **176.0W**±.10 **33 4.3b,4.5s 29 16-156**
EIDC VII 28 23 23 27.3 25.5S 175.5W 0 4.2b,4.0s **¶97vii4340**
NEIC VII 28 23 23 31.8 25.20S 175.97W 33 4.4b
NEIC Less reliable solution.
ISC VII 31 18 38 01±1.6 **23.5S**±.32 **179.9E**±.26 **550 3.6b 15 35-150**
EIDC VII 31 18 38 00.7 23.3S 179.8E 519 3.1b **¶97vii4776**
NEIC VII 31 18 38 01.1 23.56S 179.93E 550 4.1b
NEIC Poor solution.
EIDC VIII 01 12 16 42.1 24.0S 179.8E 655 2.7b 34-91
¶97viii0060
ISC VIII 01 14 12 19±2.1 **23.5S**±.12 **179.8E**±.11 **608**±28 **4.2b 45 6-150**
EIDC VIII 01 14 12 13.2 23.4S 180.0W 520 3.5b **¶97viii0075**
NEIC VIII 01 14 12 18.1 23.51S 179.87E 600 4.6b
EIDC VIII 01 15 11 07.8 21.4S 177.7E 0 3.6b 34-41
¶97viii0082
EIDC VIII 02 01 09 30.5 20.2S 177.9E 0 3.9b 41-58
¶97viii0142
ISC VIII 02 02 48 15±3.7 **22.0S**±.86 **176.5W**±.80 **33 4.2b 6 35-89**
EIDC VIII 02 02 48 11.5 21.9S 176.6W 0 4.0b **¶97viii0160**
ISC VIII 03 18 53 06±2.0 **24.3S**±.67 **179.7W**±.38 **33 4.0b 5 35-90**
EIDC VIII 03 18 53 03.2 23.7S 179.9W 0 4.0b **¶97viii0397**
ISC VIII 06 07 09 04±1.1 **23.94S**±.071 **179.74W**±.093 **542**±13 **4.4b 59 6-154**
NEIC VIII 06 07 09 04.7 23.79S 179.84W 550 4.5b **¶97viii0767**
EIDC VIII 06 07 09 07.2 23.8S 179.9W 563 3.8b
NEIC Less reliable solution.
ISC VIII 06 09 50 34±1.2 **24.3S**±.13 **179.3E**±.17 **500 3.6b 15 14-154**
EIDC VIII 06 09 50 38.8 24.3S 179.2E 545 3.1b **¶97viii0782**
ISC VIII 07 01 04 09.4±.81 **23.65S**±.050 **179.13E**±.048 **558**±11 **4.8b 347 6-164**
NEIC VIII 07 01 04 08.7 23.51S 179.10E 550 4.9b **¶97viii0866**
BJI VIII 07 01 04 09.3 23.27S 178.98E 543 4.7b
EIDC VIII 07 01 04 10.3 23.5S 179.2E 558 4.1b
HRVD VIII 07 01 04 14.9±.2 23.49S±.02 179.26E±.02 578±1.1
NEIC Mw5.6(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c76; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.33±.04; $M_{\theta\theta}$1.90±.07; $M_{\phi\phi}$0.44±.08; $M_{r\theta}$0.93±.07; $M_{r\phi}$0.23±.07; $M_{\theta\phi}$−1.00±.06. Principal Axes: T 2.52,Plg9°,Azm25°; N 0.08, Plg13°,Azm293°; P −2.59,Plg74°,Azm147°. Best double couple: M0 2.5×10^{17}Nm, NP1: ϕ_S130°,δ38°,λ−68°. NP2:ϕ_S283°,δ55°,λ−106°.
ISC VIII 07 05 48 33.1±.56 **25.70S**±.075 **179.5E**±.12 **550 3.8b 28 4-153**
EIDC VIII 07 05 48 34.1 24.2S 179.2E 527 3.4b **¶97viii0890**
NEIC VIII 07 05 48 36.0 23.96S 178.98E 550 3.7b
NEIC Poor solution.
EIDC VIII 11 12 08 12.2 19.1S 176.8E 0 3.9b 40-88
¶97viii1557
ISC VIII 11 23 58 10±4.3 **24.5S**±.46 **179.7E**±.34 **579**±48 **4.0b 15 12-93**
NEIC VIII 11 23 58 16.2 24.07S 179.27E 650 4.1b **¶97viii1647**
EIDC VIII 11 23 58 18.4 24.5S 179.4E 672 3.2b
NEIC Poor solution.

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
ISC	**VIII**	**12 01 21 19**±1.8		**24.6S**±.12	**179.7E**±.10	**562**±25	**4.2b**	**44**	**12-152**
EIDC	VIII	12 01 21 15.9		24.5S	179.9E	518	3.7b		¶97viii1657
NEIC	VIII	12 01 21 21.7		24.65S	179.64E	600	4.3b		
NEIC	Less reliable solution.								
ISC	**VIII**	**12 11 58 04**±1.0		**23.6S**±.34	**178.6E**±.22	**600**	**4.0b**	**15**	**28-153**
NEIC	VIII	12 11 58 03.8		23.63S	178.54E	600	4.3b		¶97viii1744
EIDC	VIII	12 11 58 12.0		23.7S	178.3E	695	3.2b		
NEIC	Less reliable solution.								
ISC	**VIII**	**13 10 01 28**±2.3		**25.1S**±.15	**177.3W**±.12	**144**±22	**3.8b**	**17**	**4-155**
EIDC	VIII	13 10 01 11.8		24.9S	177.1W	0	4.0b		¶97viii1888
NEIC	VIII	13 10 01 28.6		25.03S	177.31W	150	4.2b		
NEIC	Less reliable solution.								
EIDC	**VIII**	**13 14 57 47.5**		**22.6S**	**179.8E**	**0**	**3.6b**		**35-77**
									¶97viii1923
ISC	**VIII**	**13 17 17 57**±2.8		**23.8S**±.47	**179.6W**±.45	**530**±51	**4.2b**	**14**	**12-155**
NEIC	VIII	13 17 17 56.0		23.72S	179.76W	500	4.1b		¶97viii1940
EIDC	VIII	13 17 17 56.2		23.8S	179.7W	488	3.5b		
NEIC	Poor solution.								
EIDC	**VIII**	**14 09 35 59.7**		**22.2S**	**178.5W**	**139**	**3.2b**,3.5s		**44-91**
									¶97viii2038
EIDC	**VIII**	**16 17 33 01.9**		**24.0S**	**176.7W**	**0**	**4.3b**		**35-92**
									¶97viii2397
EIDC	**VIII**	**17 23 22 57.7**		**22.3S**	**177.5W**	**0**	**3.8b**		**37-45**
									¶97viii2600
ISC	**VIII**	**20 01 10 55**±1.3		**23.8S**±.29	**179.9W**±.19	**492**	**3.6b**	**8**	**35-90**
EIDC	VIII	20 01 10 56.2		23.6S	180.0W	492	3.0b		¶97viii2890
ISC	**VIII**	**20 13 19 58**±1.6		**23.3S**±.18	**179.4W**±.22	**500**	**4.1b**	**17**	**18-155**
NEIC	VIII	20 13 19 57.0		23.42S	179.27W	500	4.1b		¶97viii2968
EIDC	VIII	20 13 19 57.8		23.5S	179.3W	491	3.6b		
NEIC	Poor solution.								
EIDC	**VIII**	**21 15 02 28.1**		**20.8S**	**179.8E**	**0**	**3.9b**		**36-43**
									¶97viii3111
EIDC	**VIII**	**22 15 33 36.8**		**23.9S**	**179.7W**	**0**	**3.8b**		**42-90**
									¶97viii3247
ISC	**VIII**	**22 17 06 37**±2.9		**26.6S**±.25	**177.9E**±.37	**621**±19	**4.2b**	**28**	**11-151**
EIDC	VIII	22 17 06 42.3		26.2S	177.8E	689	3.3b		¶97viii3252
ISC	**VIII**	**23 01 22 13**±1.4		**25.0S**±.31	**178.9W**±.22	**33**	**3.8b**	**5**	**43-90**
EIDC	VIII	23 01 22 09.3		24.8S	178.8W	0	3.8b		¶97viii3317
ISC	**VIII**	**23 04 32 43**±1.3		**22.7S**±.13	**179.5W**±.21	**234**	**3.3b**	**16**	**18-155**
EIDC	VIII	23 04 32 44.5		23.1S	179.4W	234	3.2b		¶97viii3339
ISC	**VIII**	**26 15 22 08.1**±.54		**25.54S**±.038	**178.37E**±.036	**597**±7.6	**5.4b**	**536**	**5-166**
MOS	VIII	26 15 22 07.9		25.4S	178.4E	589	5.6b		¶97viii3869
EIDC	VIII	26 15 22 08.0		25.4S	178.5E	580	4.8b		
BJI	VIII	26 15 22 09.1		25.17S	178.32E	600	5.5b		
NEIC	VIII	26 15 22 09.1		25.51S	178.33E	610	5.5b		
HRVD	VIII	26 15 22 13.6±.3		25.43S±.03	178.34E±.03	605±1.6			
NEIC	Mw5.7(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c66; Mantle waves: s13,c13; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.16±.07; $M_{\theta\theta}$−0.84±.09; $M_{\phi\phi}$1.01±.10; $M_{r\theta}$−0.77±.09; $M_{r\phi}$−3.57±.08; $M_{\theta\phi}$−0.48±.08. Principal Axes: T 4.04,Plg41°,Azm92°; N −0.54,Plg13°,Azm194°; P −3.50,Plg47°,Azm298°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S117°,δ13°,λ−167°. NP2:ϕ_S14°,δ87°,λ−77°.								
ISC	**VIII**	**27 14 29 26.1**±.91		**23.7S**±.23	**179.8W**±.17	**500**	**3.9b**	**16**	**26-92**
NEIC	VIII	27 14 29 25.9		23.70S	179.80W	500	4.0b		¶97viii3999
EIDC	VIII	27 14 29 34.4		23.8S	179.9W	588	3.4b		
NEIC	Less reliable solution.								
ISC	**VIII**	**28 17 55 17**±2.6		**22.74S**±.092	**176.7W**±.13	**177**±22	**4.5b**	**57**	**7-153**
EIDC	VIII	28 17 55 19.0		22.8S	176.6W	187	4.3b		¶97viii4171
NEIC	VIII	28 17 55 20.2		22.47S	176.89W	200	4.4b		
NEIC	Less reliable solution.								
NEIC	**VIII**	**30 02 43 21.5**		**24.39S**	**179.07E**	**600**	**4.0b**		**31-149**
EIDC	VIII	30 02 43 33.3		24.4S	178.4E	700	3.2b		¶97viii4413
NEIC	Poor solution.								
ISC	**VIII**	**31 09 14 10**±1.4		**22.8S**±.59	**176.1W**±.35	**33**	**4.0b**	**12**	**38-151**
EIDC	VIII	31 09 14 07.3		22.6S	176.1W	0	3.9b		¶97viii4627
NEIC	VIII	31 09 14 10.9		22.56S	176.24W	33	4.3b		
NEIC	Poor solution.								
EIDC	**IX**	**01 11 41 08.3**		**22.7S**	**179.2W**	**0**	**3.9b**		**¶97ix0100**
ISC	**IX**	**01 14 53 22**±5.5		**20.9S**±.25	**176.7E**±.27	**112**±45	**3.8b**	**11**	**10-149**
EIDC	IX	01 14 53 08.7		20.9S	177.0E	0	4.1b		**¶97ix0120**
EIDC	**IX**	**02 20 26 29.3**		**26.2S**	**177.9W**	**37**	**3.7b**		**¶97ix0323**
ISC	**IX**	**03 01 13 52**±3.7		**22.9S**±.76	**178.7E**±.64	**33**	**4.1b**	**8**	**34-152**
EIDC	IX	03 01 13 46.2		23.2S	179.1E	0	4.3b		**¶97ix0359**
ISC	**IX**	**04 04 23 35.7**±.46		**26.50S**±.036	**178.32E**±.031	**608**±6.7	**6.3b**	**889**	**4-173**
MOS	IX	04 04 23 35.3		26.3S	178.3E	596	6.7b		**¶97ix0543**
BJI	IX	04 04 23 36.8		26.33S	178.42E	625	6.3b		
NEIC	IX	04 04 23 37.0		26.57S	178.34E	625	6.3b		
EIDC	IX	04 04 23 37.1		26.5S	178.2E	611	5.7b		
HRVD	IX	04 04 23 42.2±.1		26.45S±.01	178.52E±.01	621±.5			
NEIC	Mw6.8(GS), Me6.5(GS).								
NEIC	Mw 6.8 (HRV). Mb 6.4 (BRK). Mo=2.2×10^{19}Nm (PPT).								
NEIC	Radiated energy from the P−wave first−motion solution: 1.1±0.1×10^{14}Nm/16								
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S30°,δ80°,λ−90°. NP2:ϕ_S210°,δ10°,λ−90°. Principal axes: T Plg35°,Azm120°; P Plg55°,Azm300°. Complex earthquake observed on broadband velocity seismograms.								
NEIC	Moment tensor solution: s25, scale 10^{19}Nm; M_{rr}−1.27; $M_{\theta\theta}$0.61; $M_{\phi\phi}$0.66; $M_{r\theta}$−0.79; $M_{r\phi}$−1.56; $M_{\theta\phi}$−0.24. Depth 611km; Principal axes: T 1.57,Plg31°,Azm105°; N 0.79,Plg7°, Azm199°; P −2.36,Plg58°,Azm300°. Best double couple: $M_0$2.0×10^{19}Nm; NP1:ϕ_S174°,δ15°, λ−116°. NP2:ϕ_S21°,δ76°,λ−83°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c155; Mantle waves: s54,c127; Half duration: 6s3. Moment tensor: Scale 10^{19}Nm; M_{rr}−0.93±.01; $M_{\theta\theta}$0.57±.01; $M_{\phi\phi}$0.36±.01; $M_{r\theta}$−0.84±.01; $M_{r\phi}$−1.74±.01; $M_{\theta\phi}$0.16±.01. Principal Axes: T 1.88,Plg34°,Azm123°; N 0.39,Plg5°,Azm29°; P −2.27,Plg55°,Azm292°. Best double couple: $M_0$2.1×10^{19}Nm, NP1:ϕ_S235°,δ12°,λ−64°. NP2:ϕ_S28°,δ80°,λ−95°.								
ISC	**IX**	**04 04 30 24.8**±.94		**26.2S**±.10	**178.3E**±.13	**607**±13	**5.1b**	**69**	**5-163**
EIDC	IX	04 04 30 20.8		26.1S	178.5E	547	4.6b		**¶97ix0544**
NEIC	IX	04 04 30 24.4		26.26S	178.39E	600	4.8b		
EIDC	Aftershock: abbreviated analysis								
NEIC	Less reliable solution.								
ISC	**IX**	**04 05 04 49**±6.5		**26.0S**±.19	**178.6E**±.35	**135**±61	**4.3b**	**20**	**12-160**
EIDC	IX	04 05 05 31.3		26.0S	178.6E	532	3.8b		**¶97ix0547**
ISC	**IX**	**04 05 40 44**±3.6		**26.7S**±.32	**178.1E**±.49	**660**±25	**4.2b**	**21**	**12-160**
NEIC	IX	04 05 40 37.1		26.24S	178.61E	600	4.4b		**¶97ix0551**
EIDC	IX	04 05 40 41.1		26.5S	178.3E	607	3.5b		
NEIC	Poor solution.								
EIDC	Aftershock: abbreviated analysis								
ISC	**IX**	**04 06 02 24.6**±.62		**26.25S**±.052	**178.22E**±.050	**631**±9.0	**5.2b**	**281**	**5-166**
BJI	IX	04 06 02 24.4		25.86S	178.47E	626	5.2b		**¶97ix0553**
NEIC	IX	04 06 02 24.5		26.18S	178.21E	628	5.1b		
EIDC	IX	04 06 02 25.9		26.2S	178.2E	630	4.3b		
ISC	**IX**	**05 10 02 23**±2.4		**20.8S**±.42	**177.4E**±.37	**33**	**3.9b**	**7**	**31-90**
EIDC	IX	05 10 02 18.9		20.9S	177.5E	0	4.0b		**¶97ix0730**
EIDC	**IX**	**06 02 13 22.3**		**24.5S**	**179.1W**	**212**	**3.6b**		**¶97ix0841**
ISC	**IX**	**06 07 30 10.4**±.95		**23.1S**±.26	**179.2W**±.17	**33**	**4.1b**	**8**	**36-92**
EIDC	IX	06 07 30 06.9		22.9S	179.1W	0	4.0b		**¶97ix0878**
ISC	**IX**	**06 22 53 00**±2.5		**24.9S**±.14	**179.9W**±.21	**519**±24	**4.0b**	**40**	**13-143**
NEIC	IX	06 22 52 57.8		24.82S	179.79W	500	4.2b		**¶97ix0980**
EIDC	IX	06 22 53 01.9		24.7S	179.9W	535	3.4b		
NEIC	Less reliable solution.								
ISC	**IX**	**09 11 40 25.8**±.89		**23.0S**±.22	**179.3W**±.17	**33**	**4.0b**	**9**	**36-99**
EIDC	IX	09 11 40 22.3		22.9S	179.2W	0	4.0b		**¶97ix1370**
ISC	**IX**	**10 11 11 11**±1.5		**23.8S**±.10	**179.84E**±.083	**572**±22	**4.5b**	**62**	**12-157**
NEIC	IX	10 11 11 13.6		23.76S	179.69E	600	4.6b		**¶97ix1516**
EIDC	IX	10 11 11 15.6		23.7S	179.8E	614	3.7b		
ISC	**IX**	**11 02 30 51**±2.6		**23.7S**±.43	**180.0W**±.24	**569**±28	**4.3b**	**20**	**12-142**
EIDC	IX	11 02 30 48.5		23.4S	179.9W	521	3.8b		**¶97ix1616**
NEIC	IX	11 02 30 48.8		23.99S	179.78W	550	4.4b		
NEIC	Poor solution.								
EIDC	**IX**	**11 20 52 20.2**		**22.9S**	**176.2W**	**0**	**3.9b**		**¶97ix1734**
EIDC	**IX**	**12 14 37 13.5**		**22.6S**	**178.7W**	**0**	**4.0b**		**¶97ix1827**
ISC	**IX**	**13 02 19 36**±3.8		**24.4S**±.21	**179.9E**±.22	**558**±47	**3.9b**	**16**	**13-93**
EIDC	IX	13 02 19 35.4		24.3S	180.0E	533	3.2b		**¶97ix1900**
NEIC	IX	13 02 19 39.5		24.35S	179.75E	600	4.1b		
NEIC	Less reliable solution.								
ISC	**IX**	**13 09 00 40**±5.5		**26.0S**±.48	**178.9E**±.60	**692**±63	**4.1b**	**24**	**12-47**
EIDC	IX	13 08 59 59.0		24.8S	176.7E	0	4.5b,5.1L		**¶97ix1956**
NEIC	IX	13 09 00 35.9		25.73S	178.73E	600	4.3b		
NEIC	Poor solution.								
ISC	**IX**	**13 15 44 00.4**±.84		**23.8S**±.12	**179.3W**±.13	**400**	**3.7b**	**21**	**14-153**
NEIC	IX	13 15 44 00.1		23.74S	179.34W	400	4.0b		**¶97ix1990**
EIDC	IX	13 15 44 08.8		23.8S	179.5W	479	3.2b		
NEIC	Less reliable solution.								
ISC	**IX**	**14 15 32 43**±3.0		**25.9S**±.25	**176.7W**±.43	**33**	**3.8b**	**7**	**3-144**
EIDC	IX	14 15 32 34.8		25.2S	176.1W	0	3.9b		**¶97ix2141**
EIDC	**IX**	**14 23 02 47.7**		**19.3S**	**176.6E**	**0**	**4.3b**		**¶97ix2176**
EIDC	LO CONF								
ISC	**IX**	**15 00 07 40**±4.3		**24.5S**±.11	**177.6W**±.13	**188**±38	**4.5b**	**85**	**12-164**
NEIC	IX	15 00 07 39.7		24.58S	177.62W	188	4.8b		**¶97ix2178**
EIDC	IX	15 00 07 40.3		24.4S	177.6W	180	4.1b		
EIDC	**IX**	**16 14 34 50.3**		**22.5S**	**178.5W**	**0**	**4.5b**		**¶97ix2398**
ISC	**IX**	**17 04 42 31**±1.0		**24.56S**±.077	**179.86E**±.069	**528**±14	**4.2b**	**66**	**5-165**
EIDC	IX	17 04 42 28.6		24.3S	180.0W	491	3.8b		**¶97ix2466**
NEIC	IX	17 04 42 32.6		24.46S	179.77E	550	4.3b		
ISC	**IX**	**18 21 02 51**±2.0		**24.08S**±.083	**179.41W**±.079	**448**±22	**4.7b**	**82**	**5-156**
EIDC	IX	18 21 02 50.8		23.9S	179.4W	429	4.1b		**¶97ix2715**
NEIC	IX	18 21 02 51.3		23.99S	179.43W	450	4.8b		
BJI	IX	18 21 02 51.9		23.41S	179.33W	434	4.7b		
ISC	**IX**	**21 20 12 39**±3.0		**22.4S**±.63	**176.4E**±.50	**33**	**4.2b**	**15**	**25-163**
EIDC	IX	21 20 12 37.0		22.2S	176.2E	0	4.1b		**¶97ix3153**
ISC	**IX**	**21 20 55 03**±1.0		**24.02S**±.062	**179.87W**±.058	**519**±13	**4.7b**	**149**	**5-162**
EIDC	IX	21 20 55 00.9		23.8S	179.7W	478	4.0b		**¶97ix3162**
BJI	IX	21 20 55 01.5		23.55S	179.76W	488	4.6b		
NEIC	IX	21 20 55 01.5		23.97S	179.81W	500	4.8b		
ISC	**IX**	**21 23 39 33**±1.7		**22.33S**±.095	**179.95W**±.089	**582**±23	**4.5b**	**136**	**13-166**
EIDC	IX	21 23 39 30.8		22.2S	179.8W	549	3.9b		**¶97ix3187**
NEIC	IX	21 23 39 34.3		22.33S	179.97E	600	4.6b		
BJI	IX	21 23 39 37.0		21.56S	179.19E	568	4.8b		
ISC	**IX**	**22 09 45 12**±5.4		**23.6S**±.28	**179.1W**±.29	**439**±53	**4.1b**	**21**	**13-153**
NEIC	IX	22 09 45 24.8		24.38S	179.23W	600	4.3b		**¶97ix3258**
EIDC	IX	22 09 45 25.7		24.5S	179.2W	597	3.6b		
NEIC	Less reliable solution.								
ISC	**IX**	**22 15 11 17**±1.4		**25.66S**±.098	**178.6W**±.15	**341**±19	**4.1b**	**30**	**4-145**
NEIC	IX	22 15 11 18.0		25.55S	178.59W	350	4.2b		**¶97ix3298**
EIDC	IX	22 15 11 20.7		25.5S	178.8W	352	3.9b		
NEIC	Less reliable solution.								
ISC	**IX**	**23 00 10 40**±4.4		**23.6S**±.19	**179.2E**±.17	**481**±51	**3.7b**	**23**	**15-150**
NEIC	IX	23 00 10 49.8		23.64S	178.85E	600	4.0b		**¶97ix3342**
EIDC	IX	23 00 10 54.4		23.7S	178.7E	635	3.1b		
NEIC	Less reliable solution.								
ISC	**IX**	**23 07 54 46**±1.9		**24.20S**±.072	**177.19W**±.069	**130**±18	**4.6b**	**132**	**5-164**
EIDC	IX	23 07 54 40.8		24.0S	177.1W	66	4.5b,5.4L		**¶97ix3391**
BJI	IX	23 07 54 47.5		24.20S	177.20W	140	5.0b		
NEIC	IX	23 07 54 47.5		24.20S	177.20W	140	4.9b		
ISC	**IX**	**23 20 00 10**±1.1		**26.16S**±.095	**179.7E**±.10	**494**±12	**4.1b**	**47**	**4-166**
NEIC	IX	23 20 00 10.0		26.08S	179.67E	500	4.3b		**¶97ix3468**
EIDC	IX	23 20 00 13.2		26.0S	179.7E	522	3.7b		
NEIC	Less reliable solution.								
ISC	**IX**	**25 06 11 43**±2.9		**26.4S**±.43	**177.7W**±.44	**33**	**4.0b**	**11**	**15-145**
EIDC	IX	25 06 11 37.7		26.2S	177.4W	0	4.1b		**¶97ix3690**
NEIC	IX	25 06 11 41.2		26.20S	177.49W	33			
NEIC	Poor solution.								
EIDC	**IX**	**25 06 18 33.7**		**23.6S**	**179.7W**	**0**	**3.7b**		**¶97ix3692**
EIDC	LO CONF Location								
EIDC	**IX**	**25 23 11 30.9**		**23.4S**	**179.7E**	**692**	**2.9b**		**¶97ix3803**
ISC	**IX**	**26 16 47 35**±9.8		**24.52S**±.094	**176.2W**±.12	**12**±58	**4.7b**	**59**	**15-164**
BJI	IX	26 16 47 38.5		24.50S	176.30W	39	5.0b		**¶97ix4082**
NEIC	IX	26 16 47 38.5		24.53S	176.34W	39	4.7b		
EIDC	IX	26 16 47 40.1		24.3S	176.4W	43	4.4b,4.7L		
NEIC	Less reliable solution.								
EIDC	**IX**	**27 10 14 27.7**		**23.5S**	**179.7W**	**643**	**3.1b**		**¶97ix4327**
ISC	**IX**	**28 00 05 38**±2.1		**22.2S**±.69	**175.2E**±.42	**33**	**3.8b**	**6**	**31-95**
EIDC	IX	28 00 05 35.1		22.0S	175.2E	0	3.9b		**¶97ix4488**
NEIC	IX	28 00 05 38.3		22.22S	175.26E	33	3.4b		
NEIC	Poor solution.								
ISC	**IX**	**29 00 15 07**±1.2		**23.4S**±.11	**179.3W**±.18	**631**±32	**4.2b**	**20**	**12-58**
EIDC	IX	29 00 14 33.2		23.2S	178.1E	0	4.6b,4.7L		**¶97ix4803**
NEIC	IX	29 00 15 06.0		23.35S	179.44W	600	4.2b		
NEIC	Less reliable solution.								
ISC	**IX**	**29 05 48 23**±3.0		**22.1S**±.13	**179.8W**±.16	**610**±37	**4.0b**	**37**	**13-151**
EIDC	IX	29 05 48 19.2		21.9S	179.4W	555	3.5b		**¶97ix4878**
NEIC	IX	29 05 48 22.3		22.09S	179.67W	600	4.2b		
NEIC	Less reliable solution.								
ISC	**IX**	**29 10 45 52**±1.5		**23.1S**±.57	**179.5W**±.29	**33**	**4.2b**	**9**	**32-90**
EIDC	IX	29 10 45 48.9		23.0S	179.4W	0	4.1b		**¶97ix4928**
EIDC	LO CONF Depth								
ISC	**X**	**02 11 30 54**±3.9		**24.2S**±.19	**179.6E**±.28	**595**±44	**4.0b**	**17**	**12-149**
EIDC	X	02 11 30 27.4		24.3S	179.4W	314	3.7b		**¶97x0271**
NEIC	X	02 11 30 30.0		24.21S	179.67W	350	4.1b		
NEIC	Poor solution.								

EIDC X 02 12 15 44.3 22.5S 178.0W 0 4.1b ¶97x0282
EIDC LO CONF
ISC X 02 13 16 14.2±.90 **24.9S**±.21 **179.4E**±.16 **600 4.2b 21 25-143**
NEIC X 02 13 16 14.0 24.91S 179.42E 600 4.4b **¶97x0290**
EIDC X 02 13 16 14.6 24.9S 179.5E 591 3.4b
NEIC Less reliable solution.
EIDC X 04 06 42 10.7 26.6S 176.7W 0 3.8b ¶97x0598
EIDC X 04 18 54 08.5 22.7S 176.3E 0 3.7b ¶97x0706
EIDC LO CONF Location
ISC X 06 03 48 01.7±.46 **22.5S**±.15 **176.45W**±.097 **300 4.1b 40 16-152**
NEIC X 06 03 47 32.4 22.59S 175.99W 33 4.6b **¶97x0979**
EIDC X 06 03 47 33.9 20.3S 177.0W 0 4.4b
NEIC Less reliable solution.
ISC X 07 04 36 19±1.9 **24.27S**±.085 **179.93W**±.088 **441**±23 **4.4b 47 13-164**
EIDC X 07 04 36 23.4 24.3S 179.9W 485 3.9b **¶97x1181**
NEIC X 07 04 36 23.8 24.40S 179.98E 500 4.7b
NEIC Less reliable solution.
EIDC X 09 18 45 23.7 25.3S 179.4W 379 3.5b ¶97x1624
EIDC X 10 07 19 09.6 21.0S 179.2E 0 3.8b ¶97x1713
EIDC LO CONF Location
ISC X 13 07 38 53.8±.95 **23.8S**±.28 **180.0W**±.17 **500 4.1b 15 31-154**
EIDC X 13 07 38 53.1 23.9S 179.8W 485 3.6b **¶97x2176**
NEIC X 13 07 38 53.7 23.81S 179.99W 500 4.3b
NEIC Less reliable solution.
ISC X 14 01 44 00±4.6 **24.9S**±.44 **178.0W**±.67 **33 4.6b 12 33-144**
EIDC X 14 01 43 53.3 24.8S 177.3W 0 4.6b **¶97x2320**
NEIC X 14 01 43 56.1 24.90S 177.39W 33 4.7b
NEIC Poor solution.
ISC X 14 09 53 11±1.1 **22.14S**±.033 **176.72W**±.030 **105**±10 **6.7b 970 9-166**
EIDC X 14 09 53 16.4 22.1S 176.5W 126 6.0b **¶97x2370**
BJI X 14 09 53 17.6 21.85S 176.67W 161 6.4b
NEIC X 14 09 53 18.1 22.10S 176.77W 167 6.7b
MOS X 14 09 53 20.5 21.5S 176.8W 170 6.8b
HRVD X 14 09 53 32.7±.1 21.94S±.01 176.15W±.01 166±1.2
NEIC Mw7.8(GS), Me7.3(GS). Felt.
NEIC Radiated energy from the Harvard centroid solution: 1.8±0.2×10^{15}Nm/22
NEIC Mw 7.7 (HRV). Mb 7.0 (BRK). Felt at Wellington, New Zealand. Mo=5.3×10^{20}Nm (PPT). Complex earthquake, with two events occurring about 6 and 12 seconds after the onset, observed on broadband displacement seismograms.
NEIC Moment tensor solution: s43, scale 10^{20}Nm; M_{rr}−2.56; $M_{\theta\theta}$1.64; $M_{\phi\phi}$0.92; $M_{r\theta}$−0.15; $M_{r\phi}$−4.28; $M_{\theta\phi}$2.53. Depth 168km; Principal axes: T 5.20,Plg25°,Azm126°; N 0.49,Plg27°, Azm23°; P −5.69,Plg52°,Azm252°. Best double couple: M$_0$5.4×10^{20}Nm; NP1:ϕ_S258°,δ32°, λ−31°. NP2:ϕ_S15°,δ75°,λ−118°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c92; Mantle waves: s66,c183; Half duration: 17s9. Moment tensor: Scale 10^{20}Nm; M_{rr}−1.29±.02; $M_{\theta\theta}$0.74±.01; $M_{\phi\phi}$0.56±.01; $M_{r\theta}$−0.98±.01; $M_{r\phi}$−4.03±.02; $M_{\theta\phi}$1.30±.01. Principal Axes: T 4.47,Plg35°,Azm119°; N 0.03,Plg15°,Azm19°; P −4.50,Plg51°,Azm269°. Best double couple: M$_0$4.5×10^{20}Nm, NP1:ϕ_S257°,δ17°,λ−30°. NP2:ϕ_S16°,δ81°,λ−105°.
WEL Felt I=IV MM at Raoul Island
ISC X 14 10 45 32±3.2 **22.31S**±.093 **176.63W**±.097 **167**±29 **4.7b 68 15-152**
EIDC X 14 10 45 29.3 22.1S 176.6W 131 4.3b **¶97x2382**
NEIC X 14 10 45 30.2 22.09S 176.70W 150 4.9b
NEIC Less reliable solution.
ISC X 14 17 41 55±5.5 **22.1S**±.15 **176.5W**±.21 **289**±52 **4.1b 31 16-152**
NEIC X 14 17 41 41.4 21.75S 176.58W 150 4.5b **¶97x2459**
EIDC X 14 17 41 43.8 21.8S 176.5W 159 4.1b
NEIC Less reliable solution.
ISC X 15 08 42 35±2.7 **22.0S**±.49 **177.3W**±.49 **300 3.7b 13 34-131**
NEIC X 15 08 42 35.6 21.88S 177.46W 300 3.8b **¶97x2590**
EIDC X 15 08 42 44.2 21.2S 177.9W 344 3.4b
NEIC Poor solution.
EIDC LO CONF Depth
ISC X 15 11 26 50±3.7 **22.03S**±.092 **176.5W**±.12 **172**±33 **4.5b 45 9-158**
NEIC X 15 11 26 53.1 21.98S 176.66W 200 4.6b **¶97x2617**
EIDC X 15 11 26 56.1 21.8S 176.6W 207 4.1b
NEIC Less reliable solution.
ISC X 15 21 19 11±5.4 **22.0S**±.22 **176.9W**±.23 **259**±48 **4.1b 31 15-158**
EIDC X 15 21 18 42.0 22.0S 176.3W 0 4.4b **¶97x2724**
NEIC X 15 21 19 05.6 22.01S 176.84W 200 4.4b
NEIC Less reliable solution.
ISC X 16 07 39 26±5.4 **22.1S**±.20 **176.6W**±.21 **273**±50 **3.9b 13 16-131**
EIDC X 16 07 38 55.6 21.6S 176.3W 0 4.4b **¶97x2807**
NEIC X 16 07 39 18.1 21.92S 176.65W 200 4.2b
NEIC Less reliable solution.
EIDC X 16 17 20 45.7 25.8S 176.2W 0 3.9b ¶97x2861
ISC X 17 09 49 08±6.3 **23.5S**±.50 **180.0E**±.69 **600**±37 **4.6b 14 13-46 ¶97x2955**
ISC X 18 00 25 35±2.5 **23.8S**±.19 **179.8E**±.13 **462**±28 **4.4b 31 13-151**
EIDC X 18 00 25 37.7 23.8S 179.9E 482 3.9b **¶97x3076**
NEIC X 18 00 25 38.5 23.87S 179.78E 500 4.5b
NEIC Less reliable solution.
ISC X 19 04 45 17±4.3 **22.0S**±.14 **176.9W**±.15 **262**±40 **4.2b 35 15-152**
NEIC X 19 04 45 09.6 21.91S 176.80W 200 4.4b **¶97x3289**
EIDC X 19 04 45 13.6 21.9S 176.7W 221 3.9b
NEIC Less reliable solution.
ISC X 20 05 14 40.3±.20 **25.70S**±.045 **176.79W**±.052 **33 5.3b,4.7s 200 4-165**
EIDC X 20 05 14 36.4 25.6S 176.6W 0 5.2b,4.6s **¶97x3444**
BJI X 20 05 14 39.4 25.22S 176.63W 23 5.5b
NEIC X 20 05 14 40.3 25.61S 176.82W 33 5.2b,4.7s
MOS X 20 05 14 45.9 26.4S 179.7E 33 5.5b
HRVD X 20 05 14 46.2±.5 25.64S±.06 176.20W±.05 36±4.2
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c38; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.53±.33; $M_{\theta\theta}$−0.19±.62; $M_{\phi\phi}$−6.35±.49; $M_{r\theta}$−1.29±1.17; $M_{r\phi}$6.25±.97; $M_{\theta\phi}$−1.07±.37. Principal Axes: T 9.34,Plg66°,Azm246°; N −0.42,Plg10°,Azm0°; P −8.91,Plg21°,Azm94°. Best double couple: M$_0$9.1×10^{16}Nm, NP1: ϕ_S202°,δ25°,λ114°. NP2:ϕ_S355°,δ67°,λ79°.
EIDC X 20 13 11 57.2 24.4S 179.9W 417 3.3b ¶97x3500
EIDC X 20 13 36 17.2 22.3S 177.4W 0 4.0b ¶97x3505
ISC X 20 19 01 26±2.5 **25.6S**±.16 **179.5E**±.16 **540**±31 **4.2b 25 12-144**
NEIC X 20 19 01 21.7 25.62S 179.78E 500 4.4b **¶97x3548**
EIDC X 20 19 01 22.6 25.4S 179.7E 488 3.6b
NEIC Poor solution.
ISC X 22 19 27 48±1.4 **26.11S**±.092 **178.8W**±.10 **329**±16 **4.1b 51 3-155**
NEIC X 22 19 27 49.4 26.12S 178.83W 350 4.1b **¶97x3874**
EIDC X 22 19 27 51.4 26.1S 178.8W 352 3.8b
NEIC Less reliable solution.
EIDC X 22 19 41 39.6 26.7S 177.5W 0 4.1b ¶97x3875
ISC X 23 07 35 17±2.1 **24.0S**±.12 **179.9E**±.13 **540**±26 **4.1b 41 13-153**
EIDC X 23 07 35 16.1 23.8S 179.9E 512 3.7b **¶97x3945**
NEIC X 23 07 35 17.9 23.92S 179.82E 550 4.1b
NEIC Less reliable solution.
ISC X 23 14 38 14±1.5 **23.7S**±.38 **179.8E**±.26 **550 3.9b 11 28-90**
EIDC X 23 14 37 19.6 22.9S 179.5W 0 4.0b **¶97x4016**
NEIC X 23 14 38 14.4 23.63S 179.73E 550 4.2b
NEIC Poor solution.
ISC X 23 14 45 13±4.1 **25.4S**±.32 **179.3E**±.30 **569**±47 **4.2b 16 12-144**
EIDC X 23 14 45 05.4 25.0S 179.5E 467 3.7b **¶97x4017**
NEIC X 23 14 45 05.9 25.45S 179.70E 500 4.3b
NEIC Poor solution.
EIDC X 23 17 55 49.3 25.0S 176.1W 137 3.8b ¶97x4041
EIDC X 24 02 48 57.2 21.6S 176.9E 0 3.6b ¶97x4098
EIDC LO CONF Location
ISC X 26 01 01 18±2.3 **22.5S**±.30 **178.3W**±.36 **33 4.2b 7 37-80**
EIDC X 26 01 01 14.5 22.5S 178.2W 0 4.2b **¶97x4394**
ISC X 27 14 33 27±1.2 **22.1S**±.35 **177.6W**±.22 **33 4.0b 6 37-90**
EIDC X 27 14 33 23.7 22.0S 177.6W 0 3.6b **¶97x4619**
EIDC XI 01 18 22 58.8 22.5S 178.5E 700 2.6b ¶97xi0119
ISC XI 02 15 12 12±6.6 **24.0S**±.43 **177.5W**±.35 **265**±55 **3.7b 14 15-148**
NEIC XI 02 15 12 03.9 24.32S 177.16W 200 4.1b **¶97xi0288**
EIDC XI 02 15 12 06.8 23.7S 177.4W 208 3.5b
NEIC Poor solution.
EIDC XI 05 00 31 20.3 22.5S 176.7W 0 4.0b ¶97xi0712
EIDC LO CONF Location
ISC XI 05 05 53 07±1.3 **22.7S**±.23 **179.4E**±.19 **600 4.1b 10 19-152**
EIDC XI 05 05 53 01.3 22.5S 179.5E 507 3.3b **¶97xi0740**
NEIC XI 05 05 53 06.7 22.71S 179.44E 600 4.1b
NEIC Poor solution.
ISC XI 07 21 02 34±1.7 **24.0S**±.42 **178.8W**±.25 **500 4.1b 8 14-155**
EIDC XI 07 21 02 02.6 24.0S 178.1W 171 4.0b **¶97xi1169**
EIDC XI 11 07 42 18.1 22.8S 178.7W 0 4.1b ¶97xi1760
ISC XI 12 07 36 41±4.1 **25.5S**±.30 **179.0E**±.26 **575**±48 **4.3b 27 12-153**
NEIC XI 12 07 36 38.5 25.56S 179.12E 550 4.5b **¶97xi1952**
EIDC XI 12 07 36 38.6 25.6S 179.2E 548 3.6b
NEIC Less reliable solution.
EIDC XI 14 10 13 01.9 20.8S 177.6E 0 3.8b ¶97xi2273
EIDC LO CONF Location
NEIC XI 18 09 31 06.5 23.68S 179.87W 500 4.2b 13-155
EIDC XI 18 09 31 06.8 23.8S 179.7W 498 3.8b **¶97xi2937**
NEIC Poor solution.
EIDC XI 19 06 57 19.7 22.8S 179.0W 0 4.0b ¶97xi3157
ISC XI 20 09 16 02±1.1 **22.2S**±.39 **179.0E**±.23 **600 3.7b 13 33-151**
NEIC XI 20 09 16 02.3 22.17S 179.05E 600 4.0b **¶97xi3428**
EIDC XI 20 09 16 04.0 22.3S 179.1E 606 2.9b
NEIC Poor solution.
EIDC XI 20 12 24 17.5 25.0S 179.3E 635 2.8b ¶97xi3462
EIDC XI 21 02 00 02.1 24.3S 177.5W 0 3.6b ¶97xi3565
ISC XI 21 02 11 13±2.6 **25.5S**±.74 **177.9W**±.39 **33 3.9b 11 15-144**
EIDC XI 21 02 11 07.6 25.8S 177.6W 0 3.9b **¶97xi3567**
ISC XI 21 04 08 42±1.3 **23.3S**±.47 **179.8E**±.24 **600 4.0b 15 31-150**
NEIC XI 21 04 08 42.0 23.22S 179.75E 600 4.2b **¶97xi3576**
EIDC XI 21 04 08 48.3 23.2S 179.6E 665 3.2b
NEIC Poor solution.
ISC XI 21 20 53 17±1.2 **20.3S**±.27 **179.8E**±.19 **33 4.1b 8 31-82**
EIDC XI 21 20 53 13.9 20.1S 179.8E 0 4.2b **¶97xi3739**
EIDC XI 23 18 52 54.6 25.4S 180.0W 475 3.1b ¶97xi4175
EIDC XI 23 23 30 42.7 21.3S 176.3E 0 3.6b ¶97xi4224
EIDC XI 24 00 11 24.5 21.2S 179.4E 0 3.5b ¶97xi4230
ISC XI 24 15 48 20±1.5 **24.5S**±.50 **179.6E**±.27 **600 3.9b 13 28-91**
EIDC XI 24 15 47 22.4 22.9S 179.8W 0 4.1b,4.4s **¶97xi4344**
NEIC XI 24 15 48 20.4 24.51S 179.62E 600 4.1b
NEIC Poor solution.
ISC XI 25 11 43 37±2.4 **23.9S**±.12 **179.8E**±.12 **585**±30 **4.7b 59 12-142**
NEIC XI 25 11 43 30.0 23.85S 179.98E 500 4.8b **¶97xi4498**
EIDC XI 25 11 43 31.9 23.9S 179.9W 515 4.0b
ISC XI 26 11 20 47±5.2 **24.7S**±.47 **180.0E**±.40 **552**±49 **3.8b 10 13-133**
NEIC XI 26 11 20 46.1 24.78S 179.98W 550 **¶97xi4674**
EIDC XI 26 11 20 46.9 24.5S 179.9E 536 3.3b
NEIC Poor solution.
ISC XI 27 22 22 00.2±.86 **23.6S**±.26 **179.7E**±.16 **600 4.2b 19 26-154**
NEIC XI 27 22 21 55.9 23.59S 179.91E 550 4.3b **¶97xi4947**
EIDC XI 27 22 21 59.6 23.6S 180.0E 582 3.5b
NEIC Less reliable solution.
EIDC XI 28 03 48 04.0 19.1S 176.2E 0 3.8b ¶97xi5003
ISC XI 28 03 58 21±1.4 **24.5S**±.49 **179.7E**±.26 **600 4.2b 14 28-93**
EIDC XI 28 03 58 20.5 25.0S 180.0E 571 3.4b **¶97xi5006**
EIDC XI 28 11 51 20.1 26.7S 178.4W 0 4.0b ¶97xi5079
ISC XI 29 09 13 42±2.3 **24.5S**±.13 **179.7E**±.13 **571**±26 **4.7b 75 12-164**
EIDC XI 29 09 13 34.8 24.3S 179.9W 483 4.1b **¶97xi5230**
BJI XI 29 09 13 39.9 24.20S 179.80E 550 4.9b
NEIC XI 29 09 13 39.9 24.42S 179.76E 550 4.8b
NEIC Less reliable solution.
ISC XI 29 12 24 24±5.3 **23.3S**±.25 **179.5W**±.21 **491**±59 **3.9b 31 18-163**
EIDC XI 29 12 24 21.8 23.3S 179.3W 458 3.6b **¶97xi5264**
NEIC XI 29 12 24 25.2 23.34S 179.58W 500 4.0b
NEIC Less reliable solution.
EIDC XII 03 03 56 30.4±3.65 **25.0S 177.2W 0 4.2b 34-144 ¶97xii0360**
EIDC Error ellipse is semi−major=160.5km semi−minor=58.5km azimuth=160
ISC XII 04 22 17 19±2.1 **24.5S**±.14 **179.9W**±.14 **582**±27 **4.4b 37 13-154**
EIDC XII 04 22 17 12.0±2.25 24.2S 179.7W 487±22.5 3.9b **¶97xii0702**
NEIC XII 04 22 17 16.4 24.41S 179.84W 550 4.5b
EIDC Error ellipse is semi−major=34.9km semi−minor=19.7km azimuth=156
NEIC Less reliable solution.
ISC XII 06 03 19 32±2.0 **23.86S**±.090 **179.4W**±.12 **437**±26 **4.5b 48 12-153**
EIDC XII 06 03 19 35.4±4.80 23.6S 179.5W 446±52.2 4.0b **¶97xii1222**
NEIC XII 06 03 19 38.7 23.87S 179.65W 500 4.7b
EIDC Error ellipse is semi−major=30.7km semi−minor=25.9km azimuth=138
NEIC Less reliable solution.
ISC XII 06 23 18 29±2.9 **25.2S**±.19 **179.8E**±.20 **554**±35 **4.2b 20 13-153**
EIDC XII 06 23 18 32.5±8.12 25.0S 179.7E 573±87.1 3.6b **¶97xii1555**
NEIC XII 06 23 18 34.5 24.79S 179.37E 600 4.3b
EIDC Error ellipse is semi−major=84.5km semi−minor=45.3km azimuth=162
NEIC Poor solution.
EIDC XII 07 13 07 56.6 23.3S 178.4E 0 3.7b 34-41 ¶97xii1702
EIDC Origin time error = 146.12Error ellipse is semi−major=2570.2km semi−minor=161.3km azimuth=86LO CONF Location
ISC XII 08 08 32 01±2.5 **23.8S**±.12 **179.79W**±.094 **506**±31 **4.4b 39 12-154**
NEIC XII 08 08 32 00.4 23.77S 179.80W 500 4.6b **¶97xii1894**
EIDC XII 08 08 32 00.6±2.84 23.8S 179.7W 490±29.6 3.9b
NEIC Less reliable solution.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
EIDC	Error ellipse is semi-major=36.6km semi-minor=16.8km azimuth=155						
ISC	**XII 08 15 47 23**±3.9	**22.19S**±.093	**176.71W**±.092	**201**±36	**4.5b**		**104 9-162**
BJI	XII 08 15 47 19.3	21.90S	176.70W	163	4.9b		¶**97xii1955**
NEIC	XII 08 15 47 19.3	21.98S	176.78W	163	4.9b		
EIDC	XII 08 15 47 21.1±.64	22.0S	176.7W	166±5.5	4.4b		
EIDC	Error ellipse is semi-major=23.9km semi-minor=17.2km azimuth=162						
ISC	**XII 08 23 52 23**±1.4	**24.9S**±.53	**180.0E**±.26	**500**	**4.0b**		**11 28-91**
EIDC	XII 08 23 52 21.5±3.72	24.9S	179.9W	471±33.6	3.6b		¶**97xii2043**
NEIC	XII 08 23 52 23.4	24.75S	179.95E	500	4.3b		
EIDC	Error ellipse is semi-major=112.3km semi-minor=24.4km azimuth=161						
NEIC	Poor solution.						
ISC	**XII 10 03 01 03**±5.7	**27.0S**±.24	**177.7W**±.29	**233**±50	**3.5b**		**11 15-153**
NEIC	XII 10 03 00 59.1	26.92S	177.66W	200	3.5b		¶**97xii2283**
EIDC	XII 10 03 01 00.3	26.8S	177.6W	195±167.7	3.5b		
NEIC	Poor solution.						
EIDC	Origin time error = 18.79Error ellipse is semi-major=58.1km semi-minor=32.1km azimuth=58						
EIDC	**XII 11 10 17 15.2**	**22.4S**	**176.3W**	**0**	**4.0b**		**38-46** ¶**97xii2543**
EIDC	Origin time error = 111.08Error ellipse is semi-major=2046.7km semi-minor=195.7km azimuth=87						
EIDC	**XII 11 10 22 45.8**	**21.5S**	**175.1E**	**0**	**3.7b**		**8-38** ¶**97xii2544**
EIDC	Origin time error = 149.16Error ellipse is semi-major=2565.6km semi-minor=162.0km azimuth=80						
ISC	**XII 11 22 24 55**±2.1	**23.1S**±.30	**177.2W**±.32	**33**	**4.5b**		**8 34-91**
EIDC	XII 11 22 24 50.9±2.52	23.0S	177.0W	0	4.5b		¶**97xii2648**
EIDC	Error ellipse is semi-major=54.2km semi-minor=52.3km azimuth=160						
ISC	**XII 12 08 57 29**±1.6	**23.8S**±.59	**179.7W**±.29	**33**	**4.2b**		**7 35-90**
EIDC	XII 12 08 57 26.1±2.07	23.3S	179.7W	0	4.2b		¶**97xii2721**
EIDC	Error ellipse is semi-major=169.2km semi-minor=31.5km azimuth=160						
ISC	**XII 12 09 39 27**±2.1	**24.3S**±.12	**180.0E**±.12	**469**±29	**3.9b**		**19 13-154**
EIDC	XII 12 09 39 29.9±3.03	24.3S	180.0W	490±28.6	3.4b		¶**97xii2723**
EIDC	Error ellipse is semi-major=50.7km semi-minor=18.3km azimuth=154						
ISC	**XII 13 19 17 34**±1.2	**23.1S**±.14	**179.4E**±.18	**400**	**3.5b**		**16 16-150**
EIDC	XII 13 19 17 39.0	23.3S	179.4E	453±195.0	3.2b		¶**97xii3001**
EIDC	Origin time error = 16.74Error ellipse is semi-major=184.1km semi-minor=52.1km azimuth=175						
ISC	**XII 14 06 16 07**±5.8	**24.0S**±.63	**179.5E**±.48	**581**±63	**3.6b**		**11 12-154**
EIDC	XII 14 06 16 09.2±8.26	24.0S	179.5E	599±94.0	3.1b		¶**97xii3098**
EIDC	Error ellipse is semi-major=93.2km semi-minor=36.9km azimuth=150						
EIDC	**XII 16 15 06 17.1**±3.54	**21.9S**	**179.2E**	**0**	**3.8b**		**35-164** ¶**97xii3470**
EIDC	Error ellipse is semi-major=177.7km semi-minor=64.0km azimuth=174						
EIDC	**XII 17 15 54 42.8**±4.57	**23.9S**	**180.0W**	**0**	**3.8b**		**28-90** ¶**97xii3627**
EIDC	Error ellipse is semi-major=472.4km semi-minor=33.8km azimuth=164LO CONF Depth						
ISC	**XII 18 00 20 21**±1.9	**23.2S**±.16	**179.6W**±.27	**400**	**4.0b**		**17 19-155**
EIDC	XII 18 00 19 44.3±3.45	22.3S	179.1W	46±14.8	4.3b		¶**97xii3684**
NEIC	XII 18 00 20 20.8	23.35S	179.58W	400	3.9b		
EIDC	Error ellipse is semi-major=99.9km semi-minor=46.0km azimuth=143						
NEIC	Poor solution.						
ISC	**XII 19 20 08 07**±1.3	**21.5S**±.27	**175.2E**±.19	**33**	**4.0b**		**7 32-86**
EIDC	XII 19 20 08 03.2±1.46	21.4S	175.3E	0	4.1b		¶**97xii4030**
EIDC	Error ellipse is semi-major=45.7km semi-minor=30.0km azimuth=165						
EIDC	**XII 20 01 35 21.0**	**24.5S**	**176.6W**	**0**	**3.8b**		**37-54** ¶**97xii4069**
EIDC	Origin time error = 10.27Error ellipse is semi-major=237.0km semi-minor=39.9km azimuth=39						
ISC	**XII 21 17 33 13**±1.6	**24.33S**±.097	**178.9E**±.12	**584**±20	**4.4b**		**74 12-165**
NEIC	XII 21 17 33 14.7	24.40S	178.85E	600	4.6b		¶**97xii4285**
EIDC	XII 21 17 33 15.7±.58	24.2S	178.8E	593±5.8	3.8b		
EIDC	Error ellipse is semi-major=19.9km semi-minor=13.4km azimuth=160						
EIDC	**XII 21 17 49 43.8**±1.96	**20.0S**	**179.8E**	**0**	**3.7b**		**36-89** ¶**97xii4286**
EIDC	Error ellipse is semi-major=185.5km semi-minor=31.2km azimuth=158						
EIDC	**XII 22 04 47 04.2**	**23.6S**	**176.3W**	**0**	**3.6b**		**38-46** ¶**97xii4353**
EIDC	Origin time error = 116.16Error ellipse is semi-major=2138.9km semi-minor=188.7km azimuth=89LO CONF						
EIDC	**XII 23 10 48 57.9**±9.18	**20.9S**	**179.1E**	**0**	**4.0b**		**35-57** ¶**97xii4584**
EIDC	Error ellipse is semi-major=210.9km semi-minor=36.6km azimuth=35						
ISC	**XII 24 00 18 56**±3.8	**23.7S**±.37	**179.6E**±.57	**500**	**4.2b**		**18 31-152**
EIDC	XII 24 00 18 51.9±4.40	24.0S	179.7W	488±28.9	3.7b		¶**97xii4675**
NEIC	XII 24 00 18 55.9	23.74S	179.60E	500	4.3b		
EIDC	Error ellipse is semi-major=73.0km semi-minor=33.7km azimuth=141						
NEIC	Poor solution.						
ISC	**XII 24 02 01 58**±5.9	**22.4S**±.70	**178.5W**±.91	**33**	**4.2b**		**9 37-141**
EIDC	XII 24 02 01 50.7±5.87	22.4S	178.0W	0	4.2b		¶**97xii4686**
EIDC	Error ellipse is semi-major=189.0km semi-minor=69.9km azimuth=139						
ISC	**XII 24 08 49 08**±4.1	**25.3S**±.47	**179.3E**±.23	**561**±51	**4.0b**		**11 12-92**
EIDC	XII 24 08 48 11.1±1.32	25.6S	179.5W	0	4.3b		¶**97xii4728**
NEIC	XII 24 08 49 06.6	25.39S	179.30E	550	4.0b		
EIDC	Error ellipse is semi-major=86.8km semi-minor=26.8km azimuth=178						
NEIC	Poor solution.						
ISC	**XII 24 18 54 45**±4.3	**26.1S**±.23	**179.9E**±.38	**508**±41	**4.0b**		**20 13-153**
EIDC	XII 24 18 53 45.3±1.66	26.0S	178.0W	0	4.3b		¶**97xii4808**
NEIC	XII 24 18 54 38.6	25.95S	179.78W	450	4.1b		
EIDC	Error ellipse is semi-major=71.9km semi-minor=33.6km azimuth=155						
NEIC	Poor solution.						
ISC	**XII 25 11 23 52**±1.9	**21.8S**±.57	**179.9E**±.37	**600**	**3.6b**		**16 29-151**
EIDC	XII 25 11 23 48.6	21.7S	179.9W	547±126.0	3.1b		¶**97xii4914**
NEIC	XII 25 11 23 52.2	21.61S	179.85E	600	4.2b		
EIDC	Origin time error = 11.49Error ellipse is semi-major=177.8km semi-minor=49.9km azimuth=155						
NEIC	Poor solution.						
ISC	**XII 26 05 34 21.5**±.90	**22.27S**±.045	**179.61W**±.038	**546**±12	**5.3b**		**509 11-164**
BJI	XII 26 05 34 24.5	21.78S	179.24W	582	5.6b		¶**97xii5059**
NEIC	XII 26 05 34 24.7	22.34S	179.69W	588	5.3b		
EIDC	XII 26 05 34 27.1±.37	22.3S	179.7W	595±3.8	4.8b		
HRVD	XII 26 05 34 29.2±.2	22.34S±.01	179.46W±.02	600±1.1			
NEIC	Mw5.9(GS), Mw5.9(HRV).						
NEIC	Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}−0.80; $M_{\theta\theta}$−2.52; $M_{\phi\phi}$3.32; $M_{r\theta}$−2.99; $M_{r\phi}$−5.87; $M_{\theta\phi}$−2.13. Depth 579km; Principal axes: T 7.48,Plg35°,Azm90°; N 0.13,Plg29°, Azm203°; P −7.61,Plg41°,Azm321°. Best double couple: $M_0$7.5×10^{17}Nm; NP1:ϕ_S121°,δ29°, λ−173°. NP2:ϕ_S24°,δ87°,λ−61°.						
EIDC	Error ellipse is semi-major=13.4km semi-minor=10.5km azimuth=161						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c77; Mantle waves: s6,c9; Half duration: 2s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.52±.08; $M_{\theta\theta}$−3.19±.12; $M_{\phi\phi}$3.72±.14; $M_{r\theta}$−3.41±.12; $M_{r\phi}$−5.03±.11; $M_{\theta\phi}$−3.54±.11. Principal Axes: T 7.19,Plg30°,Azm82°; N 1.19,Plg40°,Azm201°; P −8.37,Plg35°,Azm327°. Best double couple: $M_0$7.8×10^{17}Nm, NP1:ϕ_S117°,δ40°,λ−175°. NP2:ϕ_S23°,δ87°,λ−50°.						
ISC	**XII 26 05 44 49**±2.1	**25.8S**±.12	**179.63E**±.086	**528**±28	**4.1b**		**65 12-166**
NEIC	XII 26 05 44 50.6	25.83S	179.59E	550	4.4b		¶**97xii5060**
EIDC	XII 26 05 44 51.9±6.96	25.5S	179.6E	549±77.0	3.5b		
EIDC	Error ellipse is semi-major=65.1km semi-minor=31.4km azimuth=158						
ISC	**XII 27 01 56 24**±3.2	**22.4S**±.23	**179.9E**±.24	**711**±42	**4.1b**		**17 12-90**
NEIC	XII 27 01 56 08.1	22.25S	179.54W	500	4.2b		¶**97xii5227**
EIDC	XII 27 01 56 10.9	22.3S	179.6W	517±143.9	3.5b		
NEIC	Poor solution.						
EIDC	Origin time error = 12.66Error ellipse is semi-major=57.1km semi-minor=35.7km azimuth=44						
EIDC	**XII 30 21 38 34.3**±3.92	**19.7S**	**177.7E**	**0**	**3.6b**		**41-90** ¶**97xii5792**
EIDC	Error ellipse is semi-major=485.5km semi-minor=35.8km azimuth=162						
EIDC	**XII 31 02 33 28.1**	**24.9S**	**177.6E**	**0**	**3.7b**		**32-40** ¶**97xii5824**
EIDC	Origin time error = 156.73Error ellipse is semi-major=2739.3km semi-minor=165.8km azimuth=88LO CONF						
EIDC	**XII 31 11 34 41.4**±9.61	**22.1S**	**179.0W**	**0**	**3.7b**		**36-56** ¶**97xii5887**
EIDC	Error ellipse is semi-major=220.8km semi-minor=40.2km azimuth=37						
EIDC	**XII 31 14 04 29.7**±4.10	**22.0S**	**179.8W**	**0**	**4.1b**		**29-89** ¶**97xii5912**
EIDC	Error ellipse is semi-major=438.3km semi-minor=32.7km azimuth=163						
ISC	**XII 31 16 44 16**±1.8	**24.1S**±.96	**179.0E**±.39	**600**	**3.7b**		**8 27-142**
EIDC	XII 31 16 44 19.7	24.1S	179.0E	639±193.2	2.9b		¶**97xii5928**
EIDC	Origin time error = 14.46Error ellipse is semi-major=191.6km semi-minor=71.2km azimuth=173						

(173) Tonga.

ISC	**VII 01 17 15 41.4**±.48	**15.1S**±.15	**173.8W**±.13	**33**	**4.2b,3.9s**		**31 2-148**
EIDC	VII 01 17 15 37.0	15.0S	173.6W	0	4.2b,3.9s		¶**97vii0118**
NEIC	VII 01 17 15 41.3	15.08S	173.77W	33	4.4b		
NEIC	Less reliable solution.						
EIDC	**VII 02 11 11 49.6**	**17.7S**	**173.5W**	**241**	**3.3b**		**4-84** ¶**97vii0230**
EIDC	**VII 02 21 59 22.0**	**17.6S**	**173.9W**	**0**	**3.5s,3.4b**		**49-85** ¶**97vii0305**
ISC	**VII 05 03 14 14**±1.6	**15.18S**±.080	**174.06W**±.061	**66**±14	**4.9b**		**210 3-164**
EIDC	VII 05 03 14 14.2	15.1S	174.0W	59	4.6b,4.1s		¶**97vii0666**
NEIC	VII 05 03 14 17.5	15.20S	174.08W	100	4.9b		
BJI	VII 05 03 14 17.8	15.24S	174.08W	100	4.9b		
HRVD	VII 05 03 14 25.7±.3	14.92S±.04	173.58W±.03	98±2.2			
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c85; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.85±.22; $M_{\theta\theta}$5.47±.40; $M_{\phi\phi}$−0.62±.42; $M_{r\theta}$−3.52±.27; $M_{r\phi}$−7.56±.27; $M_{\theta\phi}$3.52±.36. Principal Axes: T 10.2,Plg26°,Azm143°; N 0.4, Plg24°,Azm41°; P −10.6,Plg54°,Azm274°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S275°,δ29°,λ−33°. NP2:ϕ_S34°,δ75°,λ−115°.						
ISC	**VII 05 04 22 59**±4.0	**19.8S**±.91	**175.1W**±.78	**33**	**3.8b**		**5 36-87**
EIDC	VII 05 04 22 56.4	19.6S	175.2W	0	3.9b		¶**97vii0676**
ISC	**VII 06 03 37 53.3**±.50	**15.0S**±.14	**173.8W**±.13	**33**	**4.3b,3.9s**		**25 2-146**
EIDC	VII 06 03 37 48.6	15.1S	173.6W	0	4.0s,4.0b		¶**97vii0835**
NEIC	VII 06 03 37 53.3	15.06S	173.82W	33	4.6b		
NEIC	Less reliable solution.						
EIDC	**VII 06 10 26 13.4**	**20.9S**	**175.9W**	**0**	**3.8b**		**39-145** ¶**97vii0869**
ISC	**VII 07 02 14 40**±2.0	**15.7S**±.74	**173.6W**±.46	**33**	**4.0b**		**8 50-146**
EIDC	VII 07 02 14 37.0	15.5S	173.6W	0	3.9b		¶**97vii0974**
NEIC	VII 07 02 14 40.3	15.73S	173.54W	33	4.3b		
NEIC	Poor solution.						
EIDC	**VII 07 13 29 40.1**	**20.8S**	**175.0W**	**0**	**3.8b**		**36-58** ¶**97vii1051**
EIDC	**VII 07 18 16 41.5**	**19.8S**	**175.3W**	**0**	**4.3b**		**36-47** ¶**97vii1072**
EIDC	**VII 07 22 34 05.0**	**16.3S**	**174.2W**	**0**	**3.8b**		**43-62** ¶**97vii1099**
EIDC	**VII 08 09 01 40.2**	**19.0S**	**175.7W**	**0**	**3.8b**		**40-149** ¶**97vii1162**
EIDC	**VII 08 10 39 29.8**	**19.4S**	**175.7W**	**0**	**4.2b**		**36-150** ¶**97vii1174**
ISC	**VII 09 12 21 23**±2.3	**16.8S**±.22	**174.2W**±.21	**99**±22	**3.8b**		**10 4-146**
NEIC	VII 09 12 21 23.2	16.74S	174.15W	104			¶**97vii1336**
EIDC	VII 09 12 21 24.7	16.7S	174.1W	106	3.4b		
NEIC	Single network solution.						
ISC	**VII 10 10 01 35**±1.1	**15.1S**±.28	**173.6W**±.22	**33**	**3.9b**		**18 2-146**
EIDC	VII 10 10 01 34.9	15.3S	173.5W	25	3.7b		¶**97vii1495**
NEIC	VII 10 10 01 35.4	15.19S	173.61W	33	4.5b		
NEIC	Poor solution.						
ISC	**VII 11 02 19 46**±1.0	**19.6S**±.25	**175.9W**±.17	**300**	**3.4b**		**11 17-159**
EIDC	VII 11 02 19 14.0	19.3S	175.7W	0	3.9b		¶**97vii1615**
ISC	**VII 12 01 10 47**±1.7	**18.0S**±.20	**175.2W**±.15	**219**±16	**4.1b**		**58 5-157**
NEIC	VII 12 01 10 46.6	18.02S	175.14W	214	4.1b		¶**97vii1753**
EIDC	VII 12 01 10 48.4	17.9S	175.1W	221	4.0b		
NEIC	Less reliable solution.						
EIDC	**VII 12 03 51 45.3**	**19.2S**	**175.5W**	**0**	3.5b		**47-150** ¶**97vii1771**
EIDC	**VII 12 11 45 09.6**	**16.1S**	**173.1W**	**0**	**3.7b**		**50-147** ¶**97vii1810**
EIDC	**VII 12 18 38 39.4**	**16.4S**	**174.3W**	**0**	**4.7b**		**36-56** ¶**97vii1854**
ISC	**VII 13 05 02 51.7**±.62	**16.6S**±.16	**174.8W**±.12	**203**	**4.0b**		**37 19-163**
NEIC	VII 13 05 02 51.6	16.58S	174.74W	203	4.4b		¶**97vii1925**
EIDC	VII 13 05 02 53.2	16.5S	174.7W	203	3.8b		
NEIC	Less reliable solution.						
ISC	**VII 13 07 02 51**±2.1	**15.4S**±.25	**174.6W**±.17	**117**±21	**3.6b**		**12 3-146**
EIDC	VII 13 07 02 49.1	15.41S	174.65W	100			¶**97vii1941**
EIDC	VII 13 07 02 50.2	15.5S	174.6W	96	3.4b		
NEIC	Single network solution.						
ISC	**VII 13 15 34 06.5**±.37	**15.4S**±.13	**173.3W**±.11	**33**	**4.2b**,3.9s		**40 2-165**
EIDC	VII 13 15 34 02.9	15.4S	173.2W	0	4.1b,3.8s		¶**97vii1992**
NEIC	VII 13 15 34 06.4	15.44S	173.29W	33	4.4b		
NEIC	Less reliable solution.						
ISC	**VII 13 17 33 31**±7.2	**16.4S**±.24	**173.7W**±.18	**25**±53	**4.0b**		**10 3-147**
NEIC	VII 13 17 33 31.9	16.39S	173.62W	33	4.4b		¶**97vii2002**
EIDC	VII 13 17 33 34.8	16.1S	173.7W	41	3.8b,4.5L		

NEIC Less reliable solution.
ISC VII 14 00 43 05±1.6 **15.7S**±.72 **174.4W**±.41 **33** **3.8b** **7 49-83**
EIDC VII 14 00 43 00.8 15.9S 174.2W 0 3.7b **¶97vii2051**
NEIC VII 14 00 43 05.0 15.76S 174.34W 33 4.1b
NEIC Poor solution.
ISC VII 14 04 41 37±4.8 **18.1S**±.89 **175.6W**±.82 **33** **3.9b** **4 47-86**
EIDC VII 14 04 41 34.6 17.9S 175.8W 0 3.9b **¶97vii2067**
ISC Poorly determined
ISC VII 14 21 02 46.8±.88 **15.3S**±.20 **174.4W**±.19 **33** **3.8b** **8 49-83**
EIDC VII 14 21 02 43.5 15.3S 174.4W 0 3.8b **¶97vii2204**
NEIC VII 14 21 02 46.8 15.34S 174.40W 33
NEIC Single network solution.
ISC VII 14 22 11 27.6±.78 **15.1S**±.19 **174.0W**±.17 **33** **4.0b** **10 44-90**
EIDC VII 14 22 11 23.8 15.0S 174.0W 0 3.9b **¶97vii2212**
NEIC VII 14 22 11 27.5 15.08S 174.01W 33 4.3b
NEIC Less reliable solution.
ISC VII 16 23 52 49±1.9 **15.3S**±.64 **175.7W**±.41 **280**±27 **3.4b** **7 4-84**
EIDC VII 16 23 52 49.7 15.4S 175.6W 280 3.2b **¶97vii2520**
ISC VII 18 00 16 18±1.3 **21.2S**±.34 **174.6W**±.24 **33** **3.9b** **16 18-152**
EIDC VII 18 00 16 14.3 21.3S 174.5W 0 3.9b **¶97vii2669**
NEIC VII 18 00 16 25.5 21.40S 174.55W 100
NEIC Poor solution.
EIDC VII 18 05 41 10.3 16.6S 175.5W 0 3.5b 48-84
¶97vii2700
EIDC VII 18 13 24 22.2 20.9S 174.5W 0 3.6b 41-48
¶97vii2749
ISC VII 20 08 07 30±2.0 **15.3S**±.78 **173.3W**±.48 **33** **3.8b** **6 50-146**
EIDC VII 20 08 07 27.1 15.0S 173.5W 0 3.8b **¶97vii3044**
ISC VII 20 08 08 14.9±.48 **15.0S**±.17 **173.8W**±.14 **33** **4.1b,4.0s** **23 2-145**
EIDC VII 20 08 08 10.7 15.1S 173.6W 0 4.1b,4.0s **¶97vii3045**
NEIC VII 20 08 08 14.8 15.05S 173.81W 33 4.4b
EIDC VII 22 17 38 05.7 16.1S 173.4W 0 4.2b 44-50
¶97vii3403
EIDC VII 22 21 33 59.1 16.8S 173.1W 0 4.1b 39-50
¶97vii3434
ISC VII 24 02 56 42.8±.58 **16.8S**±.16 **173.9W**±.13 **33** **4.5b** **42 4-163**
EIDC VII 24 02 56 39.1 16.5S 173.9W 0 4.3b,3.8L **¶97vii3601**
NEIC VII 24 02 56 43.0 16.80S 173.90W 33 4.6b
NEIC Less reliable solution.
ISC VII 25 01 31 43±1.5 **15.1S**±.29 **173.8W**±.29 **317** **3.5b** **7 38-166**
NEIC VII 25 01 31 43.0 15.18S 173.82W 317 **¶97vii3751**
EIDC VII 25 01 31 44.9 15.1S 173.9W 321 3.3b
NEIC Poor solution.
EIDC VII 26 07 00 23.6 18.5S 173.3W 0 4.0b 38-49
¶97vii3932
ISC VII 27 10 47 39±2.3 **17.0S**±.27 **175.5W**±.38 **33** **3.9b** **5 42-69**
EIDC VII 27 10 47 36.1 17.0S 175.6W 0 3.8b **¶97vii4095**
EIDC VII 28 16 51 31.4 18.5S 173.9W 0 4.0b 38-49
¶97vii4303
EIDC VII 29 17 19 34.9 18.5S 174.7W 0 4.1b 41-48
¶97vii4455
EIDC VII 30 04 22 37.2 21.7S 176.0W 0 3.7b 39-152
¶97vii4531
ISC VII 31 02 10 28.1±.69 **17.7S**±.16 **173.2W**±.15 **33** **4.3b**,4.8s **42 4-151**
EIDC VII 31 02 10 23.7 17.8S 173.0W 0 4.3b **¶97vii4664**
NEIC VII 31 02 10 28.1 17.74S 173.20W 33 4.8b
MOS VII 31 02 10 34.8 16.2S 174.1W 33 5.2b
NEIC Poor solution.
EIDC VII 31 04 46 10.7 20.3S 173.9W 0 4.1b 37-55
¶97vii4676
EIDC VII 31 09 32 38.4 15.3S 176.0W 0 3.6b 47-83
¶97vii4713
ISC VIII 01 23 53 01±1.0 **16.4S**±.24 **175.2W**±.21 **33** **4.5b** **12 39-147**
EIDC VIII 01 23 52 57.8 16.3S 175.2W 0 3.9b **¶97viii0134**
EIDC VIII 03 23 21 20.7 21.4S 174.2W 0 4.1b 41-57
¶97viii0428
EIDC VIII 04 09 52 38.2 17.5S 173.8W 0 4.5b 38-57
¶97viii0488
EIDC VIII 04 17 50 48.7 15.8S 175.6W 0 3.9b 35-48
¶97viii0526
ISC VIII 04 18 54 01.2±.20 **15.30S**±.055 **175.16W**±.039 **55**±3.6* **5.3b,6.0s** **431 4-167**
EIDC VIII 04 18 53 55.3 15.2S 175.2W 0 4.9b,5.8s **¶97viii0530**
NEIC VIII 04 18 53 58.9 15.16S 175.27W 33 5.5b,6.0s
MOS VIII 04 18 53 59.1 15.1S 175.3W 33 5.8b,6.1s
BJI VIII 04 18 53 59.6 15.11S 175.04W 39 5.2b,6.2s
HRVD VIII 04 18 54 02.9±.1 15.03S±.01 175.10W±.01 15
NEIC Mw6.1(HRV), Mw6.0(GS).
NEIC Moment tensor solution: s32, scale 10^{17}Nm; M_{rr}−1.10; $M_{\theta\theta}$6.60; $M_{\phi\phi}$−5.50; $M_{r\theta}$1.10; $M_{r\phi}$3.00; $M_{\theta\phi}$9.60. Depth 14km; Principal axes: T 12.4,Plg10°,Azm330°; N −1.1,Plg74°, Azm201°; P −11.3,Plg12°,Azm62°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S106°,δ74°, λ−1°. NP2:ϕ_S196°,δ89°,λ−164°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c124; Mantle waves: s49,c88; Half duration: 2s6. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.08±.01; $M_{\theta\theta}$0.67±.01; $M_{\phi\phi}$−0.59±.01; $M_{r\theta}$−0.02±.04; $M_{r\phi}$−0.34±.04; $M_{\theta\phi}$1.29±.01. Principal Axes: T 1.50,Plg7°,Azm147°; N −0.04,Plg76°,Azm26°; P −1.46,Plg12°,Azm239°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S283°,δ77°,λ−3°. NP2:ϕ_S13°,δ87°,λ−167°.
ISC VIII 04 19 21 31.7±.27 **15.37S**±.084 **175.31W**±.065 **33** **4.8b,5.7s** **172 4-163**
EIDC VIII 04 19 21 28.3 15.2S 175.4W 0 4.6b,5.7s **¶97viii0535**
BJI VIII 04 19 21 31.5 15.29S 175.48W 26 5.1b,5.7s
NEIC VIII 04 19 21 31.8 15.21S 175.43W 33 4.9b
HRVD VIII 04 19 21 35.1±.5 15.26S±.05 175.05W±.04 15
NEIC Mw6.0(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c48; Half duration: 2s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.05±.29; $M_{\theta\theta}$5.78±.38; $M_{\phi\phi}$−3.72±.45; $M_{r\theta}$1.80±1.19; $M_{r\phi}$−4.11±1.09; $M_{\theta\phi}$8.44±.29. Principal Axes: T 10.7,Plg3°,Azm149°; N 0.2, Plg63°,Azm54°; P −10.9,Plg27°,Azm240°. Best double couple: $M_0$1.1×10^{18}Nm, NP1: ϕ_S281°,δ70°,λ−18°. NP2:ϕ_S18°,δ73°,λ−159°.
ISC VIII 05 20 45 27.4±.26 **21.32S**±.064 **174.27W**±.056 **33** **4.9b,4.8s** **213 9-162**
EIDC VIII 05 20 45 22.5 21.5S 174.1W 0 4.8b,4.5s **¶97viii0712**
NEIC VIII 05 20 45 27.2 21.31S 174.29W 33 4.9b,4.9s
BJI VIII 05 20 45 28.4 21.28S 174.28W 35 5.3b
HRVD VIII 05 20 45 30.1±.9 21.31S 174.29W 15
NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c21; Half duration: 1s0. Moment tensor: Scale 10^{17}Nm; M_{rr}0.19±.04; $M_{\theta\theta}$0.04±.07; $M_{\phi\phi}$−0.23±.05; $M_{r\theta}$−0.06±.11; $M_{r\phi}$1.25±.09; $M_{\theta\phi}$−0.01±.05. Principal Axes: T 1.25,Plg50°,Azm266°; N 0.04, Plg1°,Azm358°; P −1.29,Plg40°,Azm88°. Best double couple: $M_0$1.3×10^{17}Nm, NP1:ϕ_S188°, δ5°,λ100°. NP2:ϕ_S357°,δ85°,λ89°.
ISC VIII 06 07 06 12±2.3 **19.2S**±.98 **174.6W**±.55 **33** **4.2b** **5 37-76**
EIDC VIII 06 07 06 08.3 19.4S 174.5W 0 4.2b **¶97viii0766**
EIDC VIII 07 10 04 54.9 19.2S 175.7W 0 4.1b 36-47
¶97viii0921
EIDC VIII 09 13 25 48.2 15.0S 174.0W 0 3.8b 44-82
¶97viii1254
EIDC VIII 09 20 03 15.4 15.2S 174.1W 0 4.2b 38-50
¶97viii1304
ISC VIII 11 10 37 11.2±.31 **18.01S**±.088 **174.44W**±.098 **89**±4.2* **4.3b** **54 5-151**
EIDC VIII 11 10 37 01.3 18.0S 174.3W 0 4.5b,3.6s **¶97viii1547**
NEIC VIII 11 10 37 09.1 18.09S 174.37W 73 4.4b
BJI VIII 11 10 37 09.3 18.10S 174.35W 73
NEIC Less reliable solution.
ISC VIII 12 06 10 39.7±.97 **15.6S**±.28 **173.2W**±.22 **33** **4.2b** **16 2-146**
EIDC VIII 12 06 10 35.8 15.7S 173.1W 0 4.0b,5.2L **¶97viii1690**
NEIC VIII 12 06 10 39.8 15.48S 173.32W 33 4.3b
NEIC Poor solution.
EIDC VIII 12 09 57 37.4 15.9S 174.4W 0 3.9b 43-49
¶97viii1717
ISC VIII 13 05 55 01.9±.57 **17.7S**±.11 **175.2W**±.12 **280** **3.9b** **22 18-162**
NEIC VIII 13 05 55 01.8 17.66S 175.14W 280 4.0b **¶97viii1858**
EIDC VIII 13 05 55 03.8 17.5S 175.2W 281 3.5b
NEIC Less reliable solution.
ISC VIII 13 07 08 17.6±.38 **16.0S**±.16 **173.6W**±.12 **59**±1.2* **4.7b,4.8s** **147 3-166**
NEIC VIII 13 07 08 17.5 16.13S 173.53W 59 4.8b,4.8s **¶97viii1867**
EIDC VIII 13 07 08 18.7 16.1S 173.4W 61 4.3b
ISC VIII 13 23 28 05±1.3 **17.6S**±.34 **173.1W**±.22 **33** **3.9b**,3.7s **5 38-82**
EIDC VIII 13 23 28 01.9 17.5S 173.1W 0 3.8b,3.6s **¶97viii1980**
ISC VIII 15 19 57 11±1.0 **19.5S**±.27 **173.3W**±.20 **33** **4.3b** **22 19-150**
NEIC VIII 15 19 57 10.8 19.50S 173.24W 33 4.4b **¶97viii2264**
EIDC VIII 15 19 57 13.4 19.4S 173.4W 36 4.0b
NEIC Poor solution.
ISC VIII 16 10 01 17.9±.77 **21.2S**±.18 **174.6W**±.15 **33** **4.0b** **20 37-160**
EIDC VIII 16 10 01 14.2 21.0S 174.6W 0 3.9b **¶97viii2347**
NEIC VIII 16 10 01 17.6 21.16S 174.64W 33 4.3b
NEIC Less reliable solution.
ISC VIII 16 13 38 02±1.7 **17.3S**±.61 **174.9W**±.41 **33** **3.8b** **6 42-85**
EIDC VIII 16 13 37 58.1 17.3S 174.8W 0 3.8b **¶97viii2374**
ISC VIII 18 14 37 49±8.3 **16.42S**±.079 **173.31W**±.071 **27**±58 **4.8b,5.1s** **185 20-165**
NEIC VIII 18 14 37 49.2 16.68S 173.18W 33 4.8b,5.2s **¶97viii2687**
EIDC VIII 18 14 37 52.3 16.7S 173.2W 51 4.5b,5.0s
MOS VIII 18 14 37 52.4 16.6S 173.3W 33 5.1s
BJI VIII 18 14 37 54.0 16.78S 173.34W 57 5.0b
HRVD VIII 18 14 37 56.2±.2 16.47S±.03 172.90W±.03 21±1.5
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c62; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.62±.04; $M_{\theta\theta}$0.20±.05; $M_{\phi\phi}$−1.82±.06; $M_{r\theta}$−0.32±.09; $M_{r\phi}$1.52±.15; $M_{\theta\phi}$−0.09±.04. Principal Axes: T 2.25,Plg67°,Azm246°; N 0.14, Plg8°,Azm356°; P −2.40,Plg21°,Azm89°. Best double couple: $M_0$2.3×10^{17}Nm, NP1:ϕ_S194°, δ25°,λ110°. NP2:ϕ_S352°,δ66°,λ81°.
ISC VIII 19 07 27 21±1.4 **16.1S**±.61 **173.6W**±.48 **33** **4.4b**,3.7s **11 3-83**
EIDC VIII 19 07 27 16.3 15.9S 173.4W 0 4.3b,3.8s **¶97viii2774**
NEIC VIII 19 07 27 20.2 16.24S 173.39W 33 4.6b
NEIC Poor solution.
ISC VIII 19 09 34 40±1.8 **15.50S**±.086 **173.77W**±.091 **43**±17 **4.6b,4.1s** **94 2-164**
NEIC VIII 19 09 34 38.1 15.66S 173.65W 33 4.8b,4.2s **¶97viii2791**
BJI VIII 19 09 34 39.3 15.74S 173.66W 41 5.2b
EIDC VIII 19 09 34 41.2 15.6S 173.6W 45 4.2b,4.1s
NEIC Less reliable solution.
ISC VIII 19 13 41 01±2.5 **17.3S**±.61 **174.0W**±.53 **33** **4.0b** **8 4-148**
EIDC VIII 19 13 40 57.2 17.4S 174.0W 0 4.0b,3.8L **¶97viii2814**
NEIC VIII 19 13 41 00.8 17.29S 174.01W 33 4.1b
NEIC Poor solution.
EIDC VIII 19 14 23 25.0 18.1S 173.5W 0 3.8b 49-85
¶97viii2819
ISC VIII 20 02 51 25.1±.63 **15.5S**±.19 **173.2W**±.15 **33** **4.1b** **18 2-146**
EIDC VIII 20 02 51 21.9 15.4S 173.2W 0 4.1b **¶97viii2899**
NEIC VIII 20 02 51 25.0 15.43S 173.25W 33 4.2b
NEIC Less reliable solution.
ISC VIII 23 03 54 49.0±.94 **16.3S**±.22 **175.3W**±.16 **33** **4.2b** **7 4-69**
EIDC VIII 23 03 54 46.7 16.3S 175.4W 0 4.1b,3.3L **¶97viii3335**
ISC VIII 23 23 39 45±1.9 **20.0S**±.54 **173.1W**±.35 **33** **4.1b** **10 49-151**
EIDC VIII 23 23 39 41.2 20.0S 173.1W 0 4.0b **¶97viii3464**
ISC VIII 25 19 50 57.4±.68 **21.7S**±.11 **174.6W**±.13 **33** **4.6b**,4.6s **46 8-152**
EIDC VIII 25 19 50 53.5 21.5S 174.6W 0 4.4b **¶97viii3734**
BJI VIII 25 19 50 56.7 21.60S 174.60W 33 5.3b
NEIC VIII 25 19 50 56.7 21.62S 174.64W 33 4.6b,4.6s
NEIC Less reliable solution.
ISC VIII 29 06 54 00.4±.20 **15.17S**±.056 **175.56W**±.049 **33**±2.9* **5.4b,6.3s** **418 4-168**
BJI VIII 29 06 53 58.4 15.20S 175.16W 22 5.4b,6.3s **¶97viii4245**
EIDC VIII 29 06 53 59.1 14.8S 175.7W 0 5.0b,6.3s
NEIC VIII 29 06 54 00.2 15.24S 175.58W 33 5.6b,6.4s
MOS VIII 29 06 54 02.4 15.1S 174.8W 33 5.6b,6.5s
HRVD VIII 29 06 54 07.4±.1 15.31S±.01 175.38W±.01 15
NEIC Me6.7(GS), Mw6.5(GS).
NEIC Mw 6.4 (HRV). Ms 6.1 (BRK). Mo=4.1×10^{18}Nm (PPT).
NEIC Radiated energy from the P−wave first−motion solution: 2.5±0.4×10^{14}Nm/15
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S290°,δ85°,λ0°. NP2:ϕ_S20°,δ90°,λ−175°. Principal axes: T Plg4°,Azm155°; P Plg4°,Azm245°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s39, scale 10^{18}Nm; M_{rr}−0.10; $M_{\theta\theta}$3.20; $M_{\phi\phi}$−3.10; $M_{r\theta}$0.22; $M_{r\phi}$0.67; $M_{\theta\phi}$4.43. Depth 25km; Principal axes: T 5.53,Plg5°,Azm332°; N −0.10,Plg83°, Azm199°; P −5.43,Plg5°,Azm63°. Best double couple: $M_0$5.5×10^{18}Nm; NP1:ϕ_S108°,δ83°, λ0°. NP2:ϕ_S198°,δ90°,λ−173°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c135; Mantle waves: s56,c126; Half duration: 4s1. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.04±.03; $M_{\theta\theta}$3.16±.03; $M_{\phi\phi}$−3.12±.03; $M_{r\theta}$0.27±.10; $M_{r\phi}$−1.01±.10; $M_{\theta\phi}$4.11±.03. Principal Axes: T 5.20,Plg2°,Azm153°; N 0.15,Plg79°,Azm52°; P −5.35,Plg11°,Azm244°. Best double couple: $M_0$5.3×10^{18}Nm, NP1:ϕ_S288°,δ81°,λ−6°. NP2:ϕ_S19°,δ84°,λ−171°.
ISC VIII 29 07 20 28.5±.58 **15.4S**±.22 **175.5W**±.16 **33** **4.3b** **40 4-149**
EIDC VIII 29 07 20 24.3 15.7S 175.3W 0 4.3b **¶97viii4247**
NEIC VIII 29 07 20 28.2 15.48S 175.40W 33 4.3b
NEIC Less reliable solution.
ISC VIII 29 10 38 55±1.2 **16.05S**±.070 **174.91W**±.066 **234**±12 **4.5b** **174 4-155**
BJI VIII 29 10 38 57.1 16.00S 174.90W 250 4.6b **¶97viii4278**
NEIC VIII 29 10 38 57.1 16.02S 174.95W 250 4.5b
EIDC VIII 29 10 38 57.6 16.1S 174.9W 242 4.2b
EIDC VIII 31 05 25 51.3 18.2S 173.1W 0 3.6b 43-85
¶97viii4589
EIDC IX 02 14 07 02.8 15.5S 174.8W 0 3.5b ¶97ix0284
ISC IX 05 01 03 09±1.4 **15.3S**±.56 **174.5W**±.36 **33** **3.9b** **13 3-154**
EIDC IX 05 01 03 05.7 15.5S 174.2W 0 3.8b **¶97ix0664**

Agency		Origin Time			φ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
EIDC	**IX**	**06**	**22 06**	**57.5**	**15.5S**	**174.3W**	**0**	4.0b		**¶97ix0974**
ISC	**IX**	**08**	**03 50**	**37.4**±.60	**16.3S**±.23	**173.5W**±.18	**33**	**4.2b**	**18**	**44-147**
EIDC	IX	08	03 50	34.2	16.2S	173.4W	0	4.1b		**¶97ix1167**
NEIC	IX	08	03 50	37.3	16.26S	173.52W	33	4.7b		
NEIC	Less reliable solution.									
ISC	**IX**	**08**	**20 56**	**31**±1.3	**17.7S**±.20	**174.9W**±.23	**33**	**4.2b**	**11**	**37-148**
EIDC	IX	08	20 56	27.5	17.6S	174.8W	0	4.1b		**¶97ix1280**
NEIC	IX	08	20 56	31.2	17.71S	174.93W	33	4.5b		
NEIC	Poor solution.									
ISC	**IX**	**08**	**23 49**	**32.6**±.24	**20.80S**±.064	**174.41W**±.059	**33**	**4.9b,5.0s**	**213**	**7-163**
EIDC	IX	08	23 49	29.2	20.7S	174.5W	0	4.8b,4.9s		**¶97ix1298**
NEIC	IX	08	23 49	32.5	20.73S	174.50W	33	5.0b,5.0s		
BJI	IX	08	23 49	32.9	19.82S	174.49W	5	5.2b,5.2s		
HRVD	IX	08	23 49	36.4±.3	21.04S±.04	173.67W±.04	15			
MOS	IX	08	23 49	40.4	19.7S	175.6W	33	5.5b		
NEIC	Mw5.4(HRV).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c56; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}8.66±.28; $M_{\theta\theta}$0.14±.50; $M_{\phi\phi}$−8.80±.44; $M_{r\theta}$3.70±.69; $M_{r\phi}$7.57±.76; $M_{\theta\phi}$−3.56±.31. Principal Axes: T 11.9,Plg69°,Azm303°; N 1.3, Plg4°,Azm202°; P −13.3,Plg21°,Azm111°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S193°,δ24°,λ80°. NP2:ϕ_S24°,δ66°,λ95°.									
ISC	**IX**	**10**	**12 57**	**07.0**±.16	**21.40S**±.038	**174.34W**±.040	**10**	**5.6b,6.0s**	**502**	**8-164**
EIDC	IX	10	12 57	06.9	21.4S	174.2W	0	5.3b		**¶97ix1525**
BJI	IX	10	12 57	07.0	21.30S	174.40W	10	6.1b,5.8s		
NEIC	IX	10	12 57	07.0	21.35S	174.39W	10	5.7b,6.1s		
MOS	IX	10	12 57	08.0	21.2S	174.1W	10	6.0b,5.9s		
HRVD	IX	10	12 57	14.6±.1	21.52S±.01	173.61W±.01	15			
NEIC	Me6.2(GS), Mw6.1(GS).									
NEIC	Mw 6.1 (HRV). Ms 6.1 (BRK). Mo=2.4×10^{18}Nm (PPT).									
NEIC	Radiated energy from the P−wave first−motion solution: 3.8±0.8×10^{13}Nm/12									
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S30°,δ84°,λ135°. NP2:ϕ_S126°,δ45°,λ8°. Principal axes: T Plg35°,Azm338°; P Plg25°,Azm87°. Depth from synthetics of broadband displacement seismograms.									
NEIC	Moment tensor solution: s43, scale 10^{18}Nm; M_{rr}0.17; $M_{\theta\theta}$−0.08; $M_{\phi\phi}$−0.09; $M_{r\theta}$0.68; $M_{r\phi}$1.36; $M_{\theta\phi}$−0.26. Depth 3km; Principal axes: T 1.49,Plg49°,Azm290°; N 0.12,Plg6°, Azm27°; P −1.61,Plg40°,Azm122°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S259°,δ7°, λ143°. NP2:ϕ_S26°,δ86°,λ84°.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s50,c115; Mantle waves: s47,c74; Half duration: 2s5. Moment tensor: Scale 10^{17}Nm; M_{rr}9.04±.07; $M_{\theta\theta}$−1.73±.08; $M_{\phi\phi}$−7.31±.09; $M_{r\theta}$4.52±.26; $M_{r\phi}$8.82±.29; $M_{\theta\phi}$−4.16±.07. Principal Axes: T 13.3,Plg67°,Azm296°; N 0.5,Plg0°,Azm28°; P −13.8,Plg23°,Azm118°. Best double couple: $M_0$1.4×10^{18}Nm, NP1:ϕ_S209°,δ22°,λ91°. NP2:ϕ_S27°,δ68°,λ89°.									
ISC	**IX**	**10**	**14 32**	**56**±2.0	**21.8S**±.36	**174.3W**±.33	**115**±1.5*	**4.3b**	**16**	**8-152**
NEIC	IX	10	14 32	54.2	21.91S	174.13W	100	4.2b		**¶97ix1531**
EIDC	IX	10	14 32	59.3	21.6S	174.5W	115	3.9b		
NEIC	Poor solution.									
ISC	**IX**	**10**	**15 12**	**18.7**±.76	**15.1S**±.31	**173.7W**±.21	**33**	**3.9b**	**15**	**2-146**
EIDC	IX	10	15 12	15.1	15.2S	173.6W	0	3.9b		**¶97ix1538**
NEIC	IX	10	15 12	18.8	15.15S	173.71W	33	4.2b		
NEIC	Less reliable solution.									
EIDC	**IX**	**11**	**07 07**	**13.3**	**15.2S**	**174.6W**	**0**	**3.7b**		**¶97ix1646**
EIDC	LO CONF Location									
ISC	**IX**	**11**	**20 47**	**54.7**±.74	**21.4S**±.12	**174.7W**±.14	**33**	**4.5b**,3.9s	**28**	**8-152**
EIDC	IX	11	20 47	50.5	21.3S	174.6W	0	4.5b,4.1s		**¶97ix1732**
BJI	IX	11	20 47	54.0	21.30S	174.60W	33	4.9b		
NEIC	IX	11	20 47	54.0	21.34S	174.63W	33	4.3b		
NEIC	Less reliable solution.									
ISC	**IX**	**12**	**09 16**	**33.5**±.55	**21.1S**±.14	**174.5W**±.11	**33**	**4.4b,4.2s**	**37**	**8-152**
EIDC	IX	12	09 16	29.9	21.0S	174.5W	0	4.3b,4.2s		**¶97ix1794**
BJI	IX	12	09 16	33.1	21.00S	174.50W	33	5.0b		
NEIC	IX	12	09 16	33.1	21.04S	174.51W	33	4.3b		
NEIC	Less reliable solution.									
ISC	**IX**	**13**	**03 08**	**41**±1.9	**17.3S**±.78	**173.0W**±.45	**33**	**3.7b**	**7**	**50-148**
EIDC	IX	13	03 08	42.0	17.3S	173.0W	27	3.3b		**¶97ix1905**
ISC	**IX**	**13**	**05 02**	**27**±4.0	**21.6S**±.89	**173.5W**±.74	**33**	**3.9b**	**6**	**38-88**
EIDC	IX	13	05 02	23.6	21.5S	173.5W	0	4.0b		**¶97ix1920**
ISC	**IX**	**13**	**06 50**	**24**±5.0	**15.78S**±.097	**174.72W**±.081	**197**±47	**4.5b**	**148**	**19-153**
EIDC	IX	13	06 50	24.0	15.7S	174.7W	181	4.4b		**¶97ix1940**
NEIC	IX	13	06 50	24.5	15.75S	174.77W	200	4.5b		
BJI	IX	13	06 50	25.0	15.10S	174.72W	184	4.9b		
ISC	**IX**	**13**	**17 28**	**52.0**±.49	**21.4S**±.11	**174.6W**±.10	**33**	**4.5b,4.4s**	**54**	**18-154**
EIDC	IX	13	17 28	48.3	21.4S	174.4W	0	4.5b,4.3s		**¶97ix2002**
NEIC	IX	13	17 28	52.0	21.37S	174.62W	33	4.4b		
BJI	IX	13	17 28	55.8	21.71S	174.65W	63	4.8b		
NEIC	Less reliable solution.									
ISC	**IX**	**15**	**17 56**	**25**±1.4	**21.3S**±.27	**174.7W**±.24	**33**	**4.3b**	**7**	**40-96**
EIDC	IX	15	17 55	59.2	18.1S	172.2W	0	4.1b		**¶97ix2270**
EIDC	**IX**	**16**	**01 07**	**43.5**	**19.0S**	**173.3W**	**0**	**3.7b**		**¶97ix2303**
EIDC	LO CONF Location									
EIDC	**IX**	**16**	**09 47**	**33.1**	**19.2S**	**173.7W**	**0**	**3.8b**		**¶97ix2365**
EIDC	LO CONF Location									
ISC	**IX**	**17**	**09 00**	**53**±1.5	**17.48S**±.060	**174.75W**±.070	**154**±14	**4.7b**	**89**	**5-156**
EIDC	IX	17	09 00	45.2	17.6S	174.5W	78	4.4b,4.1s		**¶97ix2489**
BJI	IX	17	09 00	55.3	17.60S	174.70W	177	4.6b		
NEIC	IX	17	09 00	55.3	17.59S	174.73W	177	4.7b		
ISC	**IX**	**17**	**20 17**	**10**±2.5	**21.1S**±.89	**175.5W**±.56	**33**	**3.9b**	**7**	**17-151**
EIDC	IX	17	20 17	06.5	21.0S	175.5W	0	3.9b		**¶97ix2551**
EIDC	**IX**	**17**	**23 01**	**27.9**	**21.0S**	**176.0W**	**0**	**4.1b**		**¶97ix2571**
ISC	**IX**	**18**	**04 09**	**27**±1.0	**16.7S**±.29	**173.7W**±.24	**33**	**4.5b**,3.5s	**42**	**3-152**
EIDC	IX	18	04 09	23.6	16.7S	173.6W	0	4.5b,3.7s		**¶97ix2613**
NEIC	IX	18	04 09	27.9	16.73S	173.85W	33	4.6b		
NEIC	Poor solution.									
ISC	**IX**	**18**	**19 52**	**29**±5.4	**19.5S**±.24	**175.7W**±.18	**15**±37	**4.1b**	**20**	**7-150**
EIDC	IX	18	19 52	27.8	19.6S	175.7W	0	4.0b,4.7L		**¶97ix2707**
NEIC	IX	18	19 52	31.6	19.45S	175.81W	33	4.0b		
NEIC	Poor solution.									
ISC	**IX**	**18**	**20 30**	**19**±1.5	**15.8S**±.48	**174.9W**±.32	**238**±18	**4.2b**	**15**	**4-84**
NEIC	IX	18	20 30	19.4	15.81S	174.82W	250	4.5b		**¶97ix2712**
EIDC	IX	18	20 30	19.8	15.6S	174.9W	233	3.5b		
NEIC	Poor solution.									
ISC	**IX**	**20**	**13 03**	**40**±2.3	**21.2S**±.83	**174.7W**±.45	**33**	**3.9b**,3.7s	**6**	**47-93**
EIDC	IX	20	13 03	37.1	20.7S	174.9W	0	3.8b,3.7s		**¶97ix2946**
EIDC	**IX**	**22**	**06 08**	**32.2**	**20.1S**	**175.4W**	**0**	**4.0b**		**¶97ix3229**
EIDC	**IX**	**22**	**08 04**	**53.5**	**16.0S**	**174.5W**	**0**	**4.0b**		**¶97ix3244**
EIDC	LO CONF Location									
EIDC	**IX**	**23**	**04 36**	**59.9**	**15.3S**	**173.5W**	**0**	**4.0b**,3.0L		**¶97ix3374**
ISC	**IX**	**23**	**12 18**	**23**±2.1	**21.1S**±.74	**174.7W**±.47	**33**	**4.0b**,3.7s	**9**	**18-88**
EIDC	IX	23	12 18	19.5	21.1S	174.6W	0	4.0b,3.7s		**¶97ix3417**
EIDC	**IX**	**23**	**14 03**	**49.3**	**16.4S**	**175.2W**	**151**	**3.2b**		**¶97ix3429**
EIDC	LO CONF Location									
ISC	**IX**	**24**	**15 16**	**28.6**±.29	**21.01S**±.063	**174.29W**±.067	**33**	**4.9b,4.8s**	**147**	**7-162**
EIDC	IX	24	15 16	25.6	20.8S	174.3W	0	4.9b		**¶97ix3596**
BJI	IX	24	15 16	27.1	20.33S	174.01W	14	5.1b		
NEIC	IX	24	15 16	28.3	21.02S	174.27W	33	4.9b,4.7s		
HRVD	IX	24	15 16	31.8±1.2	21.00S±.08	173.70W±.10	39±5.8			
NEIC	Mw5.1(HRV).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c28; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.44±.39; $M_{\theta\theta}$1.65±.79; $M_{\phi\phi}$−5.10±.53; $M_{r\theta}$1.10±.69; $M_{r\phi}$2.88±.78; $M_{\theta\phi}$−2.17±.44. Principal Axes: T 4.41,Plg72°,Azm307°; N 2.26, Plg6°,Azm199°; P −6.67,Plg17°,Azm107°. Best double couple: $M_0$5.5×10^{16}Nm, NP1: ϕ_S187°,δ29°,λ77°. NP2:ϕ_S22°,δ62°,λ97°.									
ISC	**IX**	**24**	**18 21**	**53**±7.3	**15.6S**±.16	**175.1W**±.14	**84**±64	**4.2b**	**45**	**19-151**
EIDC	IX	24	18 21	42.9	15.5S	174.9W	0	4.6s,4.2b		**¶97ix3615**
BJI	IX	24	18 21	47.2	15.50S	175.10W	33	5.0b		
NEIC	IX	24	18 21	47.2	15.46S	175.14W	33	4.5b,4.9s		
HRVD	IX	24	18 21	51.4±1.0	15.34S±.10	174.99W±.11	15			
NEIC	Mw5.2(HRV), Less reliable solution.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c30; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}0.49±.30; $M_{\theta\theta}$1.83±.61; $M_{\phi\phi}$−2.32±.49; $M_{r\theta}$−0.52±1.61; $M_{r\phi}$−4.41±1.26; $M_{\theta\phi}$5.01±.36. Principal Axes: T 6.74,Plg28°,Azm138°; N 0.54,Plg50°,Azm7°; P −7.28,Plg25°,Azm243°. Best double couple: $M_0$7.0×10^{16}Nm, NP1: ϕ_S281°,δ50°,λ3°. NP2:ϕ_S189°,δ88°,λ140°.									
EIDC	**IX**	**25**	**06 26**	**13.7**	**18.5S**	**173.0W**	**0**	**4.3b**		**¶97ix3694**
ISC	**IX**	**25**	**21 15**	**54.3**±.73	**21.3S**±.15	**174.7W**±.14	**33**	**4.4b**	**30**	**18-152**
NEIC	IX	25	21 15	54.0	21.30S	174.63W	33	4.5b		**¶97ix3794**
EIDC	IX	25	21 15	56.2	21.3S	174.6W	34	4.2b		
NEIC	Less reliable solution.									
EIDC	**IX**	**26**	**11 37**	**36.7**	**15.8S**	**174.9W**	**0**	**3.7b**		**¶97ix3976**
EIDC	**IX**	**26**	**17 08**	**19.6**	**21.1S**	**175.5W**	**0**	**4.1b**		**¶97ix4088**
ISC	**IX**	**27**	**05 20**	**10.1**±.49	**19.0S**±.12	**173.7W**±.10	**33**	**4.3b**	**42**	**5-155**
EIDC	IX	27	05 20	06.7	19.0S	173.6W	0	4.2b,4.1L		**¶97ix4255**
NEIC	IX	27	05 20	10.1	18.92S	173.71W	33	4.4b		
NEIC	Less reliable solution.									
ISC	**IX**	**27**	**11 55**	**44**±1.3	**16.0S**±.19	**175.2W**±.14	**298**±16	**4.0b**	**16**	**4-87**
NEIC	IX	27	11 55	43.8	16.01S	175.15W	299	4.1b		**¶97ix4348**
EIDC	IX	27	11 55	44.8	16.0S	175.1W	295	3.7b		
NEIC	Less reliable solution.									
ISC	**IX**	**27**	**15 59**	**02.9**±.75	**19.4S**±.15	**173.7W**±.13	**42**	**4.4b**	**26**	**19-150**
NEIC	IX	27	15 59	02.7	19.44S	173.61W	42	4.5b		**¶97ix4399**
EIDC	IX	27	15 59	04.2	19.3S	173.7W	39	4.0b		
NEIC	Less reliable solution.									
ISC	**IX**	**27**	**23 33**	**39**±1.5	**17.2S**±.60	**173.5W**±.38	**33**	**3.9b**,3.6s	**9**	**43-148**
EIDC	IX	27	23 33	35.4	17.2S	173.4W	0	3.8b,3.9s		**¶97ix4481**
EIDC	**IX**	**28**	**09 44**	**10.1**	**19.3S**	**175.9W**	**0**	**3.5b**		**¶97ix4609**
EIDC	LO CONF Location									
ISC	**IX**	**29**	**20 27**	**04**±2.5	**21.7S**±.80	**174.3W**±.54	**33**	**3.9b**	**7**	**40-89**
EIDC	IX	29	20 27	00.1	21.5S	174.4W	0	3.8b		**¶97ix5016**
ISC	**X**	**01**	**14 04**	**13**±1.6	**15.5S**±.49	**173.5W**±.39	**100**	**4.3b**	**14**	**39-146**
EIDC	X	01	14 04	11.4	15.6S	173.3W	75	3.9b		**¶97x0098**
NEIC	X	01	14 04	12.7	15.52S	173.50W	100	4.5b		
NEIC	Poor solution.									
ISC	**X**	**02**	**06 55**	**46**±1.2	**17.8S**±.23	**173.2W**±.27	**33**	**3.6b**	**6**	**4-84**
EIDC	X	02	06 55	41.2	18.1S	172.9W	0	3.5b,3.7L		**¶97x0227**
EIDC	**X**	**03**	**02 54**	**23.1**	**17.1S**	**175.6W**	**0**	**4.0b**		**¶97x0373**
ISC	**X**	**03**	**09 52**	**54**±4.3	**16.6S**±.72	**174.0W**±.53	**119**±28	**3.8b**	**6**	**3-86**
EIDC	X	03	09 52	55.5	16.6S	173.9W	121	3.6b		**¶97x0444**
EIDC	**X**	**03**	**22 55**	**20.2**	**18.0S**	**174.8W**	**0**	**4.0b**		**¶97x0541**
ISC	**X**	**04**	**11 02**	**03**±3.3	**17.8S**±.49	**174.6W**±.50	**75**±34	**4.7b**	**14**	**5-85**
NEIC	X	04	11 02	04.7	17.73S	174.46W	100	4.9b		**¶97x0632**
EIDC	X	04	11 02	04.8	17.5S	174.8W	69	4.3b,4.3L		
NEIC	Poor solution.									
ISC	**X**	**05**	**10 28**	**08.3**±.46	**19.43S**±.080	**174.30W**±.096	**33**	**4.5b**,4.1s	**66**	**6-159**
EIDC	X	05	10 28	03.9	19.7S	174.1W	0	4.5b,4.1s		**¶97x0851**
NEIC	X	05	10 28	07.9	19.53S	174.26W	33	4.5b		
NEIC	Less reliable solution.									
ISC	**X**	**05**	**17 10**	**52**±1.3	**15.4S**±.15	**175.0W**±.11	**248**±13	**4.3b**	**79**	**3-152**
NEIC	X	05	17 10	51.5	15.42S	175.04W	236	4.4b		**¶97x0892**
EIDC	X	05	17 10	56.7	15.5S	174.9W	281	4.1b		
NEIC	Less reliable solution.									
EIDC	**X**	**06**	**16 12**	**54.6**	**20.7S**	**173.6W**	**0**	**3.9b**		**¶97x1077**
ISC	**X**	**08**	**10 17**	**56**±2.4	**20.7S**±.73	**175.4W**±.52	**33**	**3.9b**	**9**	**40-163**
NEIC	X	08	10 17	56.3	20.25S	175.65W	33			**¶97x1391**
EIDC	X	08	10 17	57.7	20.3S	175.6W	32	3.6b		
NEIC	Poor solution.									
EIDC	**X**	**08**	**12 06**	**17.8**	**19.5S**	**174.2W**	**0**	**3.6b**		**¶97x1413**
EIDC	LO CONF									
EIDC	**X**	**08**	**18 40**	**47.3**	**19.0S**	**174.0W**	**0**	**4.1b**		**¶97x1454**
EIDC	**X**	**09**	**00 29**	**29.8**	**21.9S**	**173.4W**	**0**	**4.5b**		**¶97x1498**
EIDC	LO CONF Location									
ISC	**X**	**09**	**07 00**	**09**±3.5	**17.9S**±.98	**175.4W**±.78	**33**	**3.8b**	**5**	**5-48**
EIDC	X	09	07 00	07.0	17.8S	175.5W	0	3.8b,3.4L		**¶97x1544**
ISC	**X**	**10**	**14 47**	**27**±1.7	**20.12S**±.068	**175.7W**±.13	**169**±20	**4.4b**	**46**	**7-150**
EIDC	X	10	14 47	25.6	20.2S	175.6W	147	4.2b		**¶97x1764**
NEIC	X	10	14 47	29.1	20.12S	175.60W	200	4.2b		
NEIC	Less reliable solution.									
EIDC	**X**	**11**	**08 27**	**31.7**	**15.5S**	**175.9W**	**0**	**3.7b**		**¶97x1864**
ISC	**X**	**11**	**21 05**	**41**±1.1	**15.8S**±.37	**174.1W**±.24	**100**	**4.4b**	**19**	**19-149**
EIDC	X	11	21 05	30.4	16.1S	173.9W	0	4.4b		**¶97x1942**
NEIC	X	11	21 05	34.3	15.91S	174.08W	33	4.6b		
NEIC	Poor solution.									
EIDC	**X**	**11**	**23 47**	**39.0**	**19.8S**	**175.7W**	**0**	**3.9b**		**¶97x1958**
EIDC	**X**	**12**	**10 30**	**58.0**	**15.4S**	**174.6W**	**0**	**4.1b**		**¶97x2022**
EIDC	LO CONF Location									
EIDC	**X**	**14**	**06 46**	**35.0**	**21.5S**	**174.9W**	**0**	**3.8b**		**¶97x2349**
ISC	**X**	**14**	**08 49**	**50**±3.2	**15.9S**±.92	**173.5W**±.72	**0**	**3.7b**	**5**	**3-83**
EIDC	X	14	08 49	51.2	16.0S	173.4W	0	3.7b,3.3L		**¶97x2364**
ISC	**X**	**14**	**10 19**	**54**±4.5	**21.7S**±.81	**173.5W**±.54	**33**	**4.6b**	**8**	**19-52**
EIDC	X	14	10 20	10.0	21.9S	176.1W	0	4.6b		**¶97x2375**
EIDC	**X**	**14**	**11 16**	**06.4**	**20.9S**	**175.7W**	**0**	**3.9b**		**¶97x2388**
ISC	**X**	**14**	**17 48**	**17**±6.9	**21.0S**±.51	**174.9W**±.74	**200**	**4.5b**	**20**	**17-47**
NEIC	X	14	17 49	14.7	22.10S	179.19W	500	4.5b		**¶97x2462**
NEIC	Poor solution.									
ISC	**X**	**14**	**18 47**	**19**±2.4	**20.9S**±.91	**173.5W**±.52	**33**	**4.1b**	**7**	**38-98**
EIDC	X	14	18 47	15.6	20.9S	173.5W	0	3.9b		**¶97x2469**
EIDC	**X**	**14**	**19 52**	**12.2**	**21.2S**	**174.7W**	**0**	**3.8b**		**¶97x2481**
ISC	**X**	**14**	**21 37**	**42**±2.7	**15.6S**±.60	**173.8W**±.40	**78**±23	**3.7b**	**10**	**3-146**
NEIC	X	14	21 37	41.5	15.59S	173.78W	78	3.9b		**¶97x2499**
EIDC	X	14	21 37	43.9	15.7S	173.6W	89	3.5b		
NEIC	Poor solution.									

ISC X **15 13 38 41**±1.3 **16.1S**±.56 **175.9W**±.32 **150** **3.7b** **7 5-84**
EIDC X 15 13 38 43.0 16.5S 175.3W 171 3.5b ¶**97x2646**
EIDC LO CONF Depth
ISC X **15 22 46 03**±1.0 **21.2S**±.30 **174.7W**±.18 **150** **3.8b** **14 18-152**
EIDC X 15 22 45 46.0 21.4S 174.4W 0 4.2b ¶**97x2739**
NEIC X 15 22 45 49.5 21.18S 174.62W 33 4.1b
NEIC Poor solution.
ISC X **16 04 35 44.8**±.95 **16.0S**±.40 **173.9W**±.22 **33** **4.5b** **10 38-125**
EIDC X 16 04 35 40.9 16.0S 173.7W 0 4.4b ¶**97x2787**
NEIC X 16 04 35 44.5 15.97S 173.87W 33 4.6b
NEIC Poor solution.
ISC X **19 02 15 08**±4.4 **18.41S**±.082 **174.4W**±.12 **33**±33 **4.6b** **47 5-152**
NEIC X 19 02 15 07.4 18.54S 174.30W 33 5.0b ¶**97x3273**
EIDC X 19 02 15 07.7 18.8S 174.0W 29 3.9b,4.4L
NEIC Less reliable solution.
ISC X **19 08 15 38**±1.5 **17.6S**±.56 **175.3W**±.39 **33** **3.9b** **7 41-148**
EIDC X 19 08 15 34.7 17.5S 175.2W 0 3.8b ¶**97x3312**
ISC X **19 15 53 39.1**±.18 **21.96S**±.044 **174.89W**±.044 **35**±3.2* **5.5b,5.8s** **346 8-164**
EIDC X 19 15 53 35.9 21.9S 174.8W 0 4.9b ¶**97x3364**
NEIC X 19 15 53 38.9 21.80S 175.01W 33 5.6b,5.9s
MOS X 19 15 53 39.3 21.7S 175.0W 33 5.9b,5.7s
BJI X 19 15 53 39.7 21.73S 174.55W 36 5.7b,5.7s
HRVD X 19 15 53 43.0±.2 22.06S±.02 173.90W±.02 19±1.2
NEIC Ms6.0(BRK), Mw5.8(HRV).
NEIC M0=4.1×10^{17}Nm (PPT).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c90; Half duration: 2^{s}1. Moment tensor: Scale 10^{17}Nm; M_{rr}2.70±.05; $M_{\theta\theta}$−0.09±.07; $M_{\phi\phi}$−2.61±.08; $M_{r\theta}$1.31±.15; $M_{r\phi}$3.57±.28; $M_{\theta\phi}$−1.85±.06. Principal Axes: T 4.52,Plg64°,Azm281°; N 0.84, Plg6°,Azm23°; P −5.36,Plg25°,Azm116°. Best double couple: M0 4.9×10^{17}Nm, NP1:ϕ_S219°, δ20°,λ107°. NP2:ϕ_S21°,δ70°,λ84°.
ISC X **20 02 12 07**±1.9 **18.3S**±.79 **174.3W**±.46 **33** **4.1b** **6 48-85**
EIDC X 20 02 12 03.1 18.3S 174.3W 0 3.8b ¶**97x3419**
NEIC X 20 02 12 06.8 18.34S 174.27W 33 4.4b
NEIC Poor solution.
ISC X **20 20 44 03**±4.0 **17.21S**±.069 **174.12W**±.047 **79**±36 **5.2b** **269 12-166**
EIDC X 20 20 44 02.9 17.0S 174.1W 62 4.9b ¶**97x3557**
NEIC X 20 20 44 09.1 17.16S 174.21W 134 5.1b
BJI X 20 20 44 10.1 16.78S 173.83W 135 5.2b
HRVD X 20 20 44 13.1±.3 17.41S±.04 173.54W±.03 141±1.0
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c55; Half duration: 1^{s}4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.10±.05; $M_{\theta\theta}$−0.05±.07; $M_{\phi\phi}$0.15±.06; $M_{r\theta}$−0.20±.05; $M_{r\phi}$1.91±.05; $M_{\theta\phi}$0.01±.06. Principal Axes: T 1.95,Plg43°,Azm265°; N −0.04, Plg1°,Azm174°; P −1.91,Plg47°,Azm83°. Best double couple: M0 1.9×10^{17}Nm, NP1:ϕ_S20°, δ2°,λ−64°. NP2:ϕ_S174°,δ88°,λ−91°.
EIDC X **21 16 37 22.8** **20.6S** **173.3W** **0** 3.5b ¶**97x3679**
EIDC X **21 17 25 20.0** **16.4S** **173.6W** **0** 3.8b ¶**97x3685**
ISC X **22 16 21 19**±2.8 **19.4S**±.22 **175.2W**±.16 **63**±24 **4.4b** **19 6-150**
NEIC X 22 16 21 15.8 19.57S 175.16W 33 4.9b ¶**97x3847**
EIDC X 22 16 21 17.0 19.5S 175.0W 34 4.1b
NEIC Less reliable solution.
EIDC X **24 08 44 56.4** **19.0S** **175.7W** **0** **3.3b** ¶**97x4130**
EIDC LO CONF Location
EIDC X **26 01 20 11.2** **21.6S** **174.7W** **0** **3.9b** ¶**97x4397**
ISC X **26 22 10 14.5**±.36 **21.3S**±.11 **174.34W**±.074 **61**±3.5* **4.8b** **121 8-162**
BJI X 26 22 10 11.1 21.30S 174.30W 33 5.2b ¶**97x4526**
NEIC X 26 22 10 11.1 21.28S 174.34W 33 4.9b,4.6s
EIDC X 26 22 10 15.2 21.3S 174.3W 54 4.4b,4.2s
ISC X **27 15 48 15.3**±.93 **18.5S**±.14 **175.2W**±.16 **300** **4.1b** **12 6-51**
EIDC X 27 15 48 17.5 18.2S 174.7W 355 3.9b ¶**97x4630**
EIDC X **29 13 52 39.2** **20.2S** **174.4W** **0** **3.5b** ¶**97x4920**
ISC X **29 23 49 59**±1.5 **16.7S**±.56 **174.8W**±.38 **150** **3.7b** **14 4-147**
EIDC X 29 23 49 58.8 16.7S 174.8W 138 3.6b ¶**97x4965**
NEIC X 29 23 49 58.9 16.66S 174.87W 150
NEIC Poor solution.
ISC X **30 11 13 05**±1.3 **16.1S**±.11 **175.18W**±.086 **274**±13 **4.2b** **65 4-153**
EIDC X 30 11 13 04.6 16.1S 175.1W 267 4.0b ¶**97x5027**
NEIC X 30 11 13 07.0 16.11S 175.21W 300 4.3b
EIDC XI 01 12 56 45.2 **17.0S** **175.3W** **0** **3.6b** ¶**97xi0080**
EIDC XI 01 13 26 00.7 **15.2S** **173.5W** **0** **4.6b** ¶**97xi0086**
ISC XI 01 19 06 30±1.3 **15.5S**±.54 **173.5W**±.37 **10** **3.8b**,4.0s **13 2-146**
NEIC XI 01 19 06 29.2 15.47S 173.51W 10 4.4b ¶**97xi0127**
EIDC XI 01 19 06 29.5 15.4S 173.5W 0 3.8b,3.8s
NEIC Poor solution.
ISC XI 03 03 55 46±2.1 **16.6S**±.58 **173.7W**±.47 **0** **3.7b** **4 3-82**
EIDC XI 03 03 55 47.6 16.4S 173.7W 0 3.6b,3.1L ¶**97xi0397**
ISC Poorly determined
EIDC XI 03 13 42 58.6 **16.8S** **174.3W** **0** 3.8b ¶**97xi0474**
EIDC XI 03 14 47 45.9 **16.0S** **174.9W** **0** **3.6b** ¶**97xi0483**
ISC XI 03 21 37 15±2.9 **19.98S**±.054 **175.34W**±.044 **151**±27 **5.2b** **380 7-166**
EIDC XI 03 21 37 09.1 20.0S 175.2W 86 4.9b,4.8s ¶**97xi0524**
NEIC XI 03 21 37 15.1 19.96S 175.36W 152 5.2b
BJI XI 03 21 37 16.2 19.82S 175.13W 159 5.6b
MOS XI 03 21 37 18.3 20.0S 175.5W 174 5.5b
HRVD XI 03 21 37 19.8±.3 19.92S±.03 174.71W±.03 163±1.0
NEIC Mw5.9(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c78; Half duration: 2^{s}1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.88±.20; $M_{\theta\theta}$−0.19±.25; $M_{\phi\phi}$1.07±.26; $M_{r\theta}$5.39±.19; $M_{r\phi}$5.57±.20; $M_{\theta\phi}$0.82±.29. Principal Axes: T 8.05,Plg41°,Azm310°; N −0.41, Plg4°,Azm44°; P −7.65,Plg49°,Azm139°. Best double couple: M0 7.8×10^{17}Nm, NP1:ϕ_S356°, δ6°,λ−138°. NP2:ϕ_S224°,δ86°,λ−86°.
EIDC XI 04 08 34 06.4 **16.5S** **173.3W** **0** **3.7b**,4.1L ¶**97xi0600**
EIDC XI 04 14 57 00.3 **17.0S** **174.8W** **0** **3.8b** ¶**97xi0658**
EIDC XI 05 01 45 34.5 **15.1S** **174.9W** **223** 2.7b ¶**97xi0718**
EIDC LO CONF Location
ISC XI 05 04 13 03±2.4 **17.7S**±.51 **173.9W**±.47 **33** **4.1b** **7 4-148**
EIDC XI 05 04 12 58.2 18.0S 173.6W 0 3.9b,4.3L ¶**97xi0731**
NEIC XI 05 04 13 02.3 17.73S 173.89W 33 4.2b
NEIC Poor solution.
EIDC XI 06 12 28 33.4 **20.3S** **173.6W** **0** **3.9b** ¶**97xi0975**
EIDC LO CONF Location
ISC XI 07 01 46 21±3.3 **21.0S**±.48 **174.4W**±.57 **33** **4.4b** **13 7-154**
EIDC XI 07 01 46 25.5 20.8S 174.6W 48 4.1b ¶**97xi1061**
EIDC XI 10 03 22 26.7 **20.8S** **173.6W** **0** **4.0b** ¶**97xi1550**
ISC XI 11 08 13 59±1.8 **15.9S**±.13 **174.0W**±.10 **53**±17 **4.7b,3.5s** **62 3-164**
EIDC XI 11 08 13 52.8 16.0S 173.9W 0 4.6b,3.7s ¶**97xi1761**
NEIC XI 11 08 13 56.5 15.99S 174.02W 33 4.8b
EIDC XI 12 03 53 35.6 **20.9S** **175.2W** **0** **4.0b** ¶**97xi1931**
ISC XI 13 00 50 38.4±.32 **15.9S**±.13 **173.43W**±.097 **38**±1.9* **4.8b,4.5s** **132 3-167**
EIDC XI 13 00 50 34.2 16.0S 173.3W 0 4.4s,4.9b ¶**97xi2059**
BJI XI 13 00 50 37.8 15.80S 173.40W 33 5.1s
NEIC XI 13 00 50 37.8 15.83S 173.45W 33 4.9b,4.6s
ISC XI 13 04 46 33.1±.64 **20.2S**±.18 **174.1W**±.15 **33** **4.2b**,3.6s **18 7-151**
EIDC XI 13 04 46 28.9 20.4S 174.0W 0 4.2b,4.6L ¶**97xi2078**
NEIC XI 13 04 46 33.0 20.13S 174.23W 33 4.4b
NEIC Less reliable solution.
ISC XI 13 06 29 28.6±.89 **15.5S**±.27 **173.5W**±.21 **33** **4.1b**,3.9s **12 2-88**
EIDC XI 13 06 29 24.8 15.5S 173.4W 0 4.1b,4.0s ¶**97xi2090**
NEIC XI 13 06 29 28.4 15.46S 173.43W 33 4.3b
NEIC Poor solution.
ISC XI 13 14 11 30±1.4 **18.5S**±.57 **173.5W**±.33 **33** **4.3b** **9 19-86**
EIDC XI 13 14 11 26.4 18.5S 173.5W 0 4.2b ¶**97xi2146**
NEIC XI 13 14 11 30.2 18.41S 173.61W 33 4.1b
NEIC Poor solution.
ISC XI 13 21 32 44±1.1 **17.3S**±.30 **174.7W**±.25 **33** **4.1b** **11 42-148**
EIDC XI 13 21 32 40.3 17.4S 174.5W 0 4.0b ¶**97xi2194**
NEIC XI 13 21 32 44.5 17.40S 174.75W 33 4.2b
NEIC Poor solution.
EIDC XI 14 05 06 45.6 **19.3S** **175.5W** **0** **3.8b** ¶**97xi2244**
ISC XI 14 17 24 25±2.2 **15.4S**±.61 **175.0W**±.39 **131**±30 **4.1b** **8 3-83**
NEIC XI 14 17 24 26.7 15.60S 174.86W 150 4.1b ¶**97xi2326**
EIDC XI 14 17 24 26.8 15.4S 175.0W 130 3.5b
NEIC Poor solution.
EIDC XI 14 17 51 55.4 **17.9S** **175.9W** **0** **3.9b** ¶**97xi2329**
EIDC LO CONF Location
ISC XI 14 23 53 34±2.5 **16.6S**±.27 **173.7W**±.22 **52**±21 **4.5b** **18 3-87**
NEIC XI 14 23 53 31.9 16.70S 173.62W 33 4.7b ¶**97xi2383**
EIDC XI 14 23 53 39.1 16.2S 173.7W 82 3.8b
NEIC Less reliable solution.
ISC XI 15 10 56 42±1.1 **16.22S**±.074 **175.98W**±.059 **352**±11 **5.0b** **208 5-153**
MOS XI 15 10 56 31.9 16.1S 176.4W 250 5.5b ¶**97xi2462**
EIDC XI 15 10 56 41.2 16.2S 176.1W 327 4.5b
BJI XI 15 10 56 43.2 15.38S 175.98W 334 4.6b
NEIC XI 15 10 56 43.4 16.17S 176.06W 363 5.1b
HRVD XI 15 10 56 48.6±.4 16.16S±.03 175.92W±.03 379±1.7
NEIC Mw5.6(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c51; Half duration: 1^{s}5. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.21±.06; $M_{\theta\theta}$1.18±.10; $M_{\phi\phi}$−0.96±.11; $M_{r\theta}$0.79±.08; $M_{r\phi}$−0.72±.09; $M_{\theta\phi}$2.66±.09. Principal Axes: T 3.00,Plg5°,Azm327°; N 0.13, Plg70°,Azm70°; P −3.13,Plg19°,Azm235°. Best double couple: M0 3.1×10^{17}Nm, NP1:ϕ_S13°, δ73°,λ−169°. NP2:ϕ_S279°,δ80°,λ−17°.
EIDC XI 15 18 25 03.4 **16.4S** **174.9W** **0** **3.7b** ¶**97xi2515**
ISC XI 15 23 22 07.3±.65 **20.9S**±.20 **174.4W**±.12 **33** **4.3b**,4.9s **39 7-151**
EIDC XI 15 23 22 03.4 20.9S 174.3W 0 4.2b ¶**97xi2562**
NEIC XI 15 23 22 06.9 20.94S 174.48W 33 4.5b
BJI XI 15 23 22 08.9 20.90S 174.50W 33 5.5b
NEIC Less reliable solution.
ISC XI 17 00 18 35.8±.41 **20.7S**±.11 **174.47W**±.080 **33** **4.8b,4.9s** **98 7-155**
EIDC XI 17 00 18 31.8 20.7S 174.4W 0 4.7b,4.7s ¶**97xi2712**
NEIC XI 17 00 18 35.7 20.65S 174.49W 33 4.8b,5.1s
BJI XI 17 00 18 37.8 20.29S 173.86W 43 5.2b
HRVD XI 17 00 18 38.1±.5 20.62S±.08 175.19W±.09 15
NEIC Mw5.6(HRV), Less reliable solution.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c35; Half duration: 1^{s}1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.23±.06; $M_{\theta\theta}$−0.31±.07; $M_{\phi\phi}$0.53±.08; $M_{r\theta}$1.61±.12; $M_{r\phi}$1.70±.17; $M_{\theta\phi}$0.17±.07. Principal Axes: T 2.43,Plg41°,Azm304°; N −0.08, Plg10°,Azm43°; P −2.35,Plg47°,Azm144°. Best double couple: M0 2.4×10^{17}Nm, NP1: ϕ_S332°,δ10°,λ−161°. NP2:ϕ_S223°,δ87°,λ−80°.
EIDC XI 17 02 04 31.3 **21.2S** **173.2W** **0** **4.0b** ¶**97xi2727**
ISC XI 17 06 25 33.4±.29 **20.84S**±.083 **174.33W**±.065 **33** **4.9b,5.0s** **166 7-163**
EIDC XI 17 06 25 30.1 20.7S 174.3W 0 4.8b,4.7s ¶**97xi2751**
NEIC XI 17 06 25 33.3 20.83S 174.32W 33 4.9b,5.0s
HRVD XI 17 06 25 36.4±.5 21.01S±.08 174.11W±.10 15
BJI XI 17 06 25 39.0 19.89S 174.97W 33 5.4b,5.2s
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c29; Half duration: 1^{s}2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.52±.06; $M_{\theta\theta}$−0.09±.07; $M_{\phi\phi}$−0.43±.09; $M_{r\theta}$0.37±.17; $M_{r\phi}$1.80±.18; $M_{\theta\phi}$−0.19±.05. Principal Axes: T 1.93,Plg53°,Azm279°; N −0.03, Plg3°,Azm13°; P −1.90,Plg37°,Azm105°. Best double couple: M0 1.9×10^{17}Nm, NP1:ϕ_S214°, δ8°,λ111°. NP2:ϕ_S12°,δ82°,λ87°.
ISC XI 19 02 05 28±1.9 **15.7S**±.52 **174.4W**±.32 **110**±19 **4.2b** **13 3-146**
NEIC XI 19 02 05 27.3 15.67S 174.50W 100 4.5b ¶**97xi3108**
EIDC XI 19 02 05 29.2 15.7S 174.5W 106 3.8b
NEIC Poor solution.
ISC XI 19 03 17 01±2.6 **19.6S**±.27 **175.9W**±.20 **172**±22 **4.2b** **24 7-150**
BJI XI 19 03 16 58.9 20.07S 175.09W 199 4.3b ¶**97xi3123**
EIDC XI 19 03 17 03.4 19.6S 175.8W 188 3.8b
NEIC XI 19 03 17 03.6 19.41S 175.90W 200 4.6b
NEIC Less reliable solution.
ISC XI 19 04 15 07±3.8 **16.2S**±.98 **173.6W**±.86 **33** **4.3b** **6 3-50**
EIDC XI 19 04 15 04.8 16.1S 173.7W 0 4.3b,4.3L ¶**97xi3134**
ISC XI 19 10 45 20±1.1 **21.9S**±.26 **174.1W**±.22 **33** **4.4b**,3.8s **16 8-152**
EIDC XI 19 10 45 15.6 21.6S 174.0W 0 4.2b,3.8s ¶**97xi3195**
NEIC XI 19 10 45 19.2 21.33S 174.25W 33 4.6b
BJI XI 19 10 45 21.2 21.30S 174.30W 33 5.3b
NEIC Poor solution.
ISC XI 21 08 01 18.7±.43 **15.9S**±.14 **174.7W**±.10 **33** **4.5b,4.5s** **57 19-151**
EIDC XI 21 08 01 15.2 15.9S 174.7W 0 4.4b,4.3s ¶**97xi3622**
BJI XI 21 08 01 18.6 15.98S 174.92W 26 5.3b
NEIC XI 21 08 01 18.6 15.88S 174.71W 33 4.7b,4.6s
NEIC Less reliable solution.
ISC XI 23 08 06 32±6.0 **21.5S**±.59 **175.3W**±.56 **193**±60 **4.2b** **11 8-93**
EIDC XI 23 08 06 30.4 21.7S 175.1W 180 4.1b ¶**97xi4070**
NEIC XI 23 08 06 32.2 21.41S 175.34W 200 4.2b
NEIC Poor solution.
ISC XI 25 01 35 53±1.7 **19.2S**±.55 **174.5W**±.35 **33** **4.3b** **8 37-93**
EIDC XI 25 01 35 49.9 19.1S 174.5W 0 4.2b ¶**97xi4423**
NEIC XI 25 01 35 53.2 19.24S 174.53W 33
NEIC Poor solution.
EIDC XI 25 04 39 40.7 **16.6S** **175.3W** **0** **3.9b** ¶**97xi4444**
ISC XI 25 06 47 13±6.3 **18.5S**±.17 **175.8W**±.18 **276**±59 **4.3b** **34 17-149**
EIDC XI 25 06 47 13.7 18.5S 175.6W 267 4.1b ¶**97xi4461**
NEIC XI 25 06 47 15.9 18.55S 175.82W 300 4.4b
NEIC Less reliable solution.
EIDC XI 25 07 02 05.3 **21.4S** **175.8W** **0** **3.7b** ¶**97xi4463**
EIDC LO CONF Location
EIDC XI 25 07 40 43.0 **20.7S** **175.1W** **0** **4.0b** ¶**97xi4466**
EIDC LO CONF Location
EIDC XI 25 11 38 10.1 **18.5S** **173.8W** **0** **4.0b** ¶**97xi4497**
EIDC XI 27 16 51 25.1 **17.9S** **175.4W** **0** **3.6b** ¶**97xi4901**

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XI 30 15 09 03**±1.8	**15.2S**±.65	**173.7W**±.46	**33**	**4.1b**	**9**	**44-82**
EIDC	XI 30 15 09 00.0	15.0S	173.8W	0	3.9b		¶97xi5423
EIDC	**XII 02 16 44 51.5**	**17.5S**	**173.7W**	**0**	**3.9b**		**38-49**
							¶97xii0283
EIDC	Origin time error = 30.04Error ellipse is semi−major=553.8km semi−minor=167.5km azimuth=73						
ISC	**XII 03 18 29 50**±7.7	**15.3S**±.20	**173.6W**±.15	**14**±47	**4.5b,3.6s**	**24**	**2-146**
EIDC	XII 03 18 29 49.2±.74	15.2S	173.6W	0	4.4b,3.9s		¶97xii0478
NEIC	XII 03 18 29 52.2	15.25S	173.58W	33	4.8b		
EIDC	Error ellipse is semi−major=35.0km semi−minor=17.0km azimuth=140						
NEIC	Less reliable solution.						
EIDC	**XII 05 04 23 46.5**	**21.9S**	**175.7W**	**0**	**4.2b**		**39-55**
							¶97xii0776
EIDC	Origin time error = 37.52Error ellipse is semi−major=720.3km semi−minor=170.4km azimuth=92						
EIDC	**XII 07 18 11 21.8**	**16.4S**	**173.0W**	**0**	**3.9b**		**39-50**
							¶97xii1755
EIDC	Origin time error = 27.17Error ellipse is semi−major=505.0km semi−minor=184.2km azimuth=70						
ISC	**XII 08 00 53 37**±3.9	**21.3S**±.49	**173.1W**±.57	**42**	**4.0b**	**6**	**19-74**
EIDC	XII 08 00 53 50.3	20.3S	175.0W	42±14.1	3.8b		¶97xii1833
EIDC	Origin time error = 13.65Error ellipse is semi−major=337.8km semi−minor=48.2km azimuth=118						
ISC	**XII 09 12 10 21.5**±.25	**19.52S**±.060	**174.53W**±.077	**33**	**4.8b,4.5s**	**90**	**6-158**
EIDC	XII 09 12 10 18.1±.62	19.5S	174.5W	0	4.6b,4.2s		¶97xii2164
BJI	XII 09 12 10 21.0	19.60S	174.50W	33	5.2b		
NEIC	XII 09 12 10 21.0	19.64S	174.48W	33	4.8b,4.9s		
EIDC	Error ellipse is semi−major=24.5km semi−minor=13.8km azimuth=141						
ISC	**XII 09 22 10 22**±2.3	**19.1S**±.85	**174.3W**±.49	**33**	**3.9b**	**5**	**18-86**
EIDC	XII 09 22 10 18.2±2.54	19.0S	174.3W	0	3.9b		¶97xii2247
EIDC	Error ellipse is semi−major=146.9km semi−minor=29.0km azimuth=152						
EIDC	**XII 10 04 37 25.8**	**17.2S**	**175.2W**	**0**	**3.8b**		**48-85**
							¶97xii2290
EIDC	Origin time error = 12.72Error ellipse is semi−major=565.5km semi−minor=39.9km azimuth=141LO CONF Location						
EIDC	**XII 11 18 18 14.0**±5.20	**18.8S**	**174.3W**	**338**±8.4	**3.1b**		**43-128**
							¶97xii2618
EIDC	Error ellipse is semi−major=356.5km semi−minor=32.4km azimuth=150						
ISC	**XII 12 03 23 07**±1.3	**17.0S**±.45	**174.6W**±.29	**33**	**4.3b**	**9**	**41-82**
EIDC	XII 12 03 23 03.9±1.83	17.0S	174.5W	0	4.2b		¶97xii2687
NEIC	XII 12 03 23 07.2	17.00S	174.58W	33	4.5b		
EIDC	Error ellipse is semi−major=188.3km semi−minor=29.6km azimuth=155						
NEIC	Poor solution.						
EIDC	**XII 12 18 30 57.9**±3.37	**15.8S**	**174.2W**	**0**	**3.7b,3.7s**		**49-146**
							¶97xii2801
EIDC	Error ellipse is semi−major=189.7km semi−minor=24.8km azimuth=146						
ISC	**XII 13 03 20 06**±1.3	**17.6S**±.32	**173.1W**±.22	**33**	**4.6b**	**6**	**50-82**
EIDC	XII 13 03 20 02.8±1.49	17.5S	173.1W	0	4.5b		¶97xii2869
EIDC	Error ellipse is semi−major=50.1km semi−minor=33.6km azimuth=163						
ISC	**XII 13 16 18 45**±2.5	**17.1S**±.94	**174.9W**±.59	**33**	**4.2b**	**7**	**48-84**
EIDC	XII 13 16 18 41.8±3.49	16.9S	174.9W	0	4.1b		¶97xii2977
EIDC	Error ellipse is semi−major=188.3km semi−minor=27.9km azimuth=147						
ISC	**XII 14 00 41 17**±6.5	**19.7S**±.16	**174.5W**±.15	**84**±58	**4.0b**	**24**	**18-150**
EIDC	XII 14 00 41 07.1±.74	19.5S	174.4W	0	4.1b,3.9s		¶97xii3049
NEIC	XII 14 00 41 10.7	19.66S	174.46W	33	4.4b		
EIDC	Error ellipse is semi−major=31.0km semi−minor=19.6km azimuth=149						
NEIC	Less reliable solution.						
ISC	**XII 14 00 51 08.7**±.82	**19.5S**±.22	**174.6W**±.18	**33**	**3.9b**	**12**	**18-150**
EIDC	XII 14 00 51 05.3±.96	19.4S	174.5W	0	3.9b		¶97xii3050
EIDC	Error ellipse is semi−major=38.3km semi−minor=23.6km azimuth=140						
ISC	**XII 14 06 57 47.0**±.47	**16.8S**±.17	**173.8W**±.13	**75**	**4.4b**	**53**	**19-163**
NEIC	XII 14 06 57 41.9	16.89S	173.74W	33	4.6b		¶97xii3106
EIDC	XII 14 06 57 49.2±.58	16.7S	173.9W	75±5.0	4.1b,3.7s		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=26.7km semi−minor=13.2km azimuth=145						
ISC	**XII 14 23 10 04.2**±.24	**15.60S**±.064	**173.15W**±.055	**34**±2.1*	**5.0b,5.2s**	**268**	**2-166**
NEIC	XII 14 23 10 03.9	15.57S	173.17W	33	5.2b,5.2s		¶97xii3207
BJI	XII 14 23 10 04.7	14.60S	172.61W	25	5.4b,5.3s		
EIDC	XII 14 23 10 06.4±.86	15.5S	173.1W	42±6.9	4.5b,5.2s		
MOS	XII 14 23 10 08.2	15.1S	174.0W	33	5.6b,5.1s		
HRVD	XII 14 23 10 10.9±.2	15.36S±.04	172.65W±.02	15			
NEIC	Mw5.6(HRV).						
EIDC	Error ellipse is semi−major=25.9km semi−minor=15.5km azimuth=147						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c63; Half duration: 1$6. Moment tensor: Scale 10^{17}Nm; M_{rr}1.82±.05; $M_{\theta\theta}$0.46±.09; $M_{\phi\phi}$−2.28±.07; $M_{r\theta}$0.21±.11; $M_{r\phi}$1.60±.12; $M_{\theta\phi}$0.43±.06. Principal Axes: T 2.43,Plg68°,Azm297°; N 0.43, Plg11°,Azm178°; P −2.86,Plg18°,Azm84°. Best double couple: $M_0$2.7×10^{17}Nm, NP1: ϕ_S156°,δ28°,λ66°. NP2:ϕ_S3°,δ64°,λ102°.						
ISC	**XII 15 21 29 21**±4.5	**19.3S**±.44	**175.1W**±.69	**33**	**4.5b**	**7**	**17-92**
EIDC	XII 15 21 29 16.6±5.17	19.4S	175.0W	0	4.6b		¶97xii3345
EIDC	Error ellipse is semi−major=125.1km semi−minor=42.8km azimuth=121						
ISC	**XII 17 06 59 10.2**±.92	**17.1S**±.15	**173.9W**±.18	**350**	**3.4b**	**13**	**19-92**
EIDC	XII 17 06 58 35.1±1.90	15.5S	174.3W	0	4.0b		¶97xii3568
EIDC	Error ellipse is semi−major=168.1km semi−minor=27.7km azimuth=149						
ISC	**XII 19 13 32 04.4**±.76	**19.9S**±.12	**175.9W**±.13	**234**	**3.5b**	**17**	**17-150**
NEIC	XII 19 13 32 05.5	19.37S	176.27W	234	3.6b		¶97xii3972
EIDC	XII 19 13 32 06.6±1.47	19.4S	176.3W	232±11.6	3.3b		
NEIC	Poor solution.						
EIDC	Error ellipse is semi−major=56.3km semi−minor=23.5km azimuth=155						
EIDC	**XII 20 09 54 57.7**±6.36	**16.7S**	**175.4W**	**0**	**4.3b**		**42-84**
							¶97xii4104
EIDC	Error ellipse is semi−major=308.1km semi−minor=35.3km azimuth=136						
ISC	**XII 22 06 46 12**±3.5	**20.0S**±.49	**175.4W**±.40	**266**±29	**4.0b**	**14**	**7-150**
EIDC	XII 22 06 46 11.7±5.42	19.9S	175.7W	229±41.3	3.8b		¶97xii4372
NEIC	XII 22 06 46 11.8	19.90S	175.57W	252	4.2b		
EIDC	Error ellipse is semi−major=97.7km semi−minor=22.5km azimuth=147						
NEIC	Poor solution.						
ISC	**XII 22 13 08 19**±1.2	**19.0S**±.30	**175.7W**±.18	**33**	**4.0b**	**9**	**34-84**
EIDC	XII 22 13 08 15.7±1.52	18.9S	175.6W	0	4.0b		¶97xii4425
EIDC	Error ellipse is semi−major=49.2km semi−minor=30.2km azimuth=171						
ISC	**XII 23 03 20 00**±2.2	**15.4S**±.60	**174.2W**±.40	**101**±26	**3.8b**	**8**	**3-83**
NEIC	XII 23 03 20 00.0	15.40S	174.18W	100	3.7b		¶97xii4529
EIDC	XII 23 03 20 01.0±2.42	15.4S	174.1W	95±27.1	3.5b		
NEIC	Poor solution.						
EIDC	Error ellipse is semi−major=107.0km semi−minor=19.9km azimuth=148						
ISC	**XII 23 13 20 05**±1.1	**15.2S**±.38	**175.7W**±.27	**250**	**3.9b**	**14**	**35-124**
NEIC	XII 23 13 20 04.4	15.27S	175.70W	250	4.3b		¶97xii4604
EIDC	XII 23 13 20 05.6	15.2S	175.7W	246±189.7	3.5b		
NEIC	Poor solution.						
EIDC	Origin time error = 19.40Error ellipse is semi−major=103.2km semi−minor=34.7km azimuth=159						
EIDC	**XII 25 05 48 56.1**	**15.3S**	**173.9W**	**0**	**3.7b**		**44-63**
							¶97xii4874
EIDC	Origin time error = 10.78Error ellipse is semi−major=255.2km semi−minor=44.3km azimuth=33						
ISC	**XII 25 15 48 40**±6.2	**17.6S**±.10	**173.8W**±.10	**7**±37	**4.3b,4.2s**	**46**	**4-151**
EIDC	XII 25 15 48 39.7±1.30	17.8S	173.8W	0	4.2b,3.6s		¶97xii4954
NEIC	XII 25 15 48 43.5	17.72S	173.75W	33	4.3b		
EIDC	Error ellipse is semi−major=60.9km semi−minor=17.5km azimuth=145						
NEIC	Less reliable solution.						
ISC	**XII 26 00 54 21**±2.8	**16.6S**±.80	**173.3W**±.22	**33**	**4.4b**	**8**	**38-89**
EIDC	XII 26 00 54 17.2±4.10	16.4S	173.2W	0	4.4b		¶97xii5018
EIDC	Error ellipse is semi−major=176.6km semi−minor=39.2km azimuth=5						
ISC	**XII 26 19 32 25**±1.6	**15.2S**±.72	**175.4W**±.45	**33**	**3.9b,3.8s**	**12**	**42-169**
EIDC	XII 26 19 32 21.9±1.83	15.0S	175.4W	0	4.0s,4.0b		¶97xii5192
EIDC	Error ellipse is semi−major=142.7km semi−minor=25.7km azimuth=150						
EIDC	**XII 27 01 57 26.1**	**21.7S**	**173.3W**	**0**	**4.1b**		**38-49**
							¶97xii5228
EIDC	Origin time error = 30.88Error ellipse is semi−major=562.4km semi−minor=159.9km azimuth=76LO CONF Location						
ISC	**XII 27 17 07 53**±2.1	**16.5S**±.40	**174.2W**±.30	**107**±17	**4.2b**	**26**	**3-163**
NEIC	XII 27 17 07 53.7	16.25S	174.45W	109	4.1b		¶97xii5321
EIDC	XII 27 17 07 54.1±4.12	16.6S	174.1W	106±31.3	3.9b		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=107.5km semi−minor=17.7km azimuth=145						
ISC	**XII 27 20 27 54.5**±.23	**17.68S**±.065	**174.75W**±.049	**33**	**5.1b,5.4s**	**320**	**5-165**
EIDC	XII 27 20 27 50.2±.55	17.6S	174.8W	0	4.9b,5.5s		¶97xii5343
NEIC	XII 27 20 27 54.4	17.60S	174.83W	33	5.3b,5.4s		
BJI	XII 27 20 27 54.8	17.35S	174.79W	26	5.2b,5.7s		
MOS	XII 27 20 27 57.2	17.6S	175.1W	33	5.6b,5.3s		
EIDC	Error ellipse is semi−major=23.4km semi−minor=17.1km azimuth=133						
ISC	**XII 27 22 18 20**±1.6	**17.4S**±.68	**175.1W**±.41	**33**	**4.1b**	**11**	**48-148**
EIDC	XII 27 22 18 15.8±2.18	17.4S	175.0W	0	4.0b		¶97xii5359
NEIC	XII 27 22 18 19.9	17.38S	175.10W	33	3.9b		
EIDC	Error ellipse is semi−major=131.0km semi−minor=30.3km azimuth=151						
NEIC	Poor solution.						
ISC	**XII 29 19 36 22**±9.2	**17.2S**±.72	**174.2W**±.56	**31**±59	**3.8b**	**8**	**4-84**
EIDC	XII 29 19 36 23.8±8.11	17.3S	174.0W	35±58.3	3.6b,3.6L		¶97xii5625
EIDC	Error ellipse is semi−major=131.2km semi−minor=21.5km azimuth=141						
ISC	**XII 31 12 27 06**±1.4	**21.5S**±.49	**175.2W**±.28	**33**	**4.2b**	**10**	**33-85**
EIDC	XII 31 12 27 02.0±1.93	22.0S	174.9W	0	4.4b		¶97xii5894
NEIC	XII 31 12 27 06.0	21.54S	175.16W	33	4.2b		
EIDC	Error ellipse is semi−major=146.6km semi−minor=29.0km azimuth=159LO CONF DepthMultiple, mixed az						
NEIC	Poor solution.						
ISC	**XII 31 19 48 41**±4.9	**18.1S**±.58	**174.5W**±.53	**33**	**4.1b**	**11**	**38-162**
NEIC	XII 31 19 48 40.8	18.10S	174.49W	33	4.0b		¶97xii5960
EIDC	XII 31 19 48 41.1±3.41	18.5S	174.8W	0	4.1b		
NEIC	Poor solution.						
EIDC	Error ellipse is semi−major=86.9km semi−minor=38.9km azimuth=31						

(174) Tonga region.

EIDC	**VII 05 08 19 43.5**	**23.3S**	**173.0W**	**0**	**4.3b**		**38-55**
							¶97vii0702
ISC	**VII 12 05 23 45**±1.8	**22.7S**±.75	**174.7W**±.48	**100**	**3.6b**	**8**	**40-153**
EIDC	VII 12 05 23 53.1	22.8S	174.6W	163	3.3b		¶97vii1777
EIDC	**VII 13 15 16 59.0**	**21.9S**	**171.4W**	**0**	**4.2b**		**39-50**
							¶97vii1986
EIDC	**VII 14 11 14 15.8**	**18.6S**	**173.0W**	**0**	**3.8b**		**43-50**
							¶97vii2114
EIDC	**VII 14 13 40 40.0**	**17.8S**	**172.2W**	**0**	**4.2b**		**39-51**
							¶97vii2143
EIDC	**VII 14 16 50 27.9**	**24.0S**	**172.9W**	**0**	**4.4b**		**35-49**
							¶97vii2178
EIDC	**VII 14 20 23 07.8**	**21.2S**	**166.5W**	**0**	**4.1b**		**47-55**
							¶97vii2198
ISC	**VII 17 07 01 36.0**±.32	**22.98S**±.090	**175.24W**±.072	**45**±1.1*	**4.8b,4.8s**	**117**	**17-161**
NEIC	VII 17 07 01 34.4	22.92S	175.29W	33	4.9b,4.8s		¶97vii2562
HRVD	VII 17 07 01 36.2±.9	23.29S±.12	174.67W±.11	15			
EIDC	VII 17 07 01 36.8	23.0S	175.2W	44	4.3b,4.5s		
BJI	VII 17 07 01 37.2	23.04S	175.55W	39	5.3b		
NEIC	Mw5.1(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1$0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.79±.41; $M_{\theta\theta}$−1.00±.65; $M_{\phi\phi}$−2.78±.45; $M_{r\theta}$−0.25±1.10; $M_{r\phi}$2.16±1.13; $M_{\theta\phi}$−1.44±.49. Principal Axes: T 4.51,Plg71°,Azm248°; N −0.50,Plg13°,Azm21°; P −4.01,Plg14°,Azm114°. Best double couple: $M_0$4.3×10^{16}Nm, NP1: ϕ_S222°,δ34°,λ114°. NP2:ϕ_S13°,δ60°,λ75°.						
ISC	**VII 17 07 03 09.6**±.91	**23.6S**±.29	**175.0W**±.15	**42**±.7*	**4.7b,4.8s**	**78**	**17-161**
NEIC	VII 17 07 03 08.0	23.59S	175.03W	33	4.7b		¶97vii2564
BJI	VII 17 07 03 12.1	23.79S	175.42W	35	5.4b		
EIDC	VII 17 07 03 20.2	23.0S	176.4W	41	4.3b		
NEIC	Poor solution.						
ISC	**VII 18 08 38 29**±4.1	**21.4S**±.93	**171.8W**±.78	**33**	**4.2b**	**6**	**39-88**
EIDC	VII 18 08 38 26.0	21.3S	171.8W	0	4.1b		¶97vii2713
EIDC	**VII 20 15 31 33.6**	**17.5S**	**171.3W**	**0**	**4.3b**		**40-58**
							¶97vii3113
ISC	**VII 22 14 28 15.6**±.29	**23.06S**±.077	**175.18W**±.065	**41**±3.2*	**4.8b,4.9s**	**121**	**7-162**
EIDC	VII 22 14 28 10.5	22.7S	175.1W	0	4.7b,4.7s		¶97vii3387
BJI	VII 22 14 28 14.3	22.71S	174.94W	21	5.2b,5.3s		
NEIC	VII 22 14 28 14.5	22.91S	175.27W	33	4.8b,5.0s		
HRVD	VII 22 14 28 16.6±.8	23.28S±.07	174.62W±.07	36±4.6			
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c42; Half duration: 1$0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.03±.36; $M_{\theta\theta}$−0.47±.47; $M_{\phi\phi}$−4.56±.39; $M_{r\theta}$2.48±.68; $M_{r\phi}$2.70±.84; $M_{\theta\phi}$−3.51±.46. Principal Axes: T 6.18,Plg72°,Azm331°; N 1.42, Plg9°,Azm214°; P −7.60,Plg16°,Azm121°. Best double couple: $M_0$6.9×10^{16}Nm, NP1: ϕ_S198°,δ30°,λ72°. NP2:ϕ_S39°,δ62°,λ100°.						
ISC	**VII 22 15 45 20**±7.6	**23.6S**±.48	**175.1W**±.30	**76**±61	**4.0b**	**11**	**17-152**
NEIC	VII 22 15 45 15.9	23.54S	175.03W	43	4.1b		¶97vii3391
EIDC	VII 22 15 45 17.3	23.5S	175.0W	43	3.9b,3.7s		
NEIC	Poor solution.						
ISC	**VII 23 08 34 00.2**±.38	**23.0S**±.10	**175.28W**±.092	**33**	**4.5b,4.3s**	**57**	**17-158**
BJI	VII 23 08 34 00.2	22.90S	175.30W	33	4.9b		¶97vii3504
NEIC	VII 23 08 34 00.2	22.92S	175.34W	33	4.6b,4.5s		
EIDC	VII 23 08 34 18.2	23.2S	175.4W	191	3.8b,4.1s		
EIDC	**VII 23 11 43 43.4**	**22.9S**	**171.8W**	**0**	**3.7b**		**42-96**
							¶97vii3524

EIDC	**VII**	**23 18 37 22.7**	**23.8S**	**173.8W**	**0**	**4.2b**		**37-48**	**¶97vii3566**
EIDC	**VII**	**26 01 53 01.3**	**18.2S**	**171.4W**	**0**	**4.0b**		**13-51**	**¶97vii3897**
EIDC	**VII**	**27 15 17 29.1**	**21.4S**	**172.8W**	**0**	**3.7b**		**42-58**	**¶97vii4127**
EIDC	**VII**	**28 11 26 50.8**	**17.8S**	**171.8W**	**0**	**4.1b**		**40-72**	**¶97vii4260**
EIDC	**VII**	**28 21 24 43.1**	**23.7S**	**175.2W**	**0**	**3.6b**		**39-47**	**¶97vii4329**
EIDC	**VII**	**29 14 13 56.2**	**22.5S**	**172.2W**	**0**	**3.8b**		**42-50**	**¶97vii4439**
EIDC	**VIII**	**02 23 51 06.1**	**21.8S**	**172.0W**	**0**	**4.6b**		**39-56**	**¶97viii0271**
ISC	**VIII**	**04 08 57 47**±2.2	**19.8S**±.76	**172.3W**±.44	**33**	**3.7b**		**6 50-95**	**¶97viii0480**
EIDC	VIII	04 08 57 43.6	19.6S	172.3W	0	3.7b			
EIDC	**VIII**	**04 20 00 47.8**	**21.9S**	**172.5W**	**0**	**4.1b**		**38-49**	**¶97viii0539**
EIDC	**VIII**	**05 00 29 39.7**	**20.1S**	**172.1W**	**0**	**3.9b**		**43-59**	**¶97viii0584**
EIDC	**VIII**	**09 23 34 40.1**	**21.6S**	**169.3W**	**0**	**3.6b**		**52-81**	**¶97viii1319**
EIDC	**VIII**	**11 07 23 36.0**	**22.9S**	**172.1W**	**0**	**4.2b**		**39-50**	**¶97viii1523**
EIDC	**VIII**	**11 09 12 46.2**	**23.6S**	**175.4W**	**0**	**3.8b**		**39-47**	**¶97viii1537**
EIDC	**VIII**	**13 07 32 14.3**	**23.2S**	**175.4W**	**0**	**3.7b**		**39-47**	**¶97viii1871**
ISC	**VIII**	**16 19 20 00**±1.3	**23.6S**±.29	**175.3W**±.20	**33**	**3.9b**,3.5s		**7 33-87**	**¶97viii2408**
EIDC	VIII	16 19 19 56.4	23.6S	175.3W	0	3.8b,3.8s			
NEIC	VIII	16 19 20 00.0	23.64S	175.33W	33	4.2b			
NEIC	Poor solution.								
EIDC	**VIII**	**17 03 24 11.9**	**21.6S**	**171.2W**	**0**	**4.0b**		**40-82**	**¶97viii2477**
EIDC	**VIII**	**18 20 46 25.0**	**23.6S**	**171.6W**	**0**	**4.2b**		**39-50**	**¶97viii2712**
EIDC	**VIII**	**19 12 22 34.8**	**18.4S**	**171.6W**	**0**	**4.5b**		**37-56**	**¶97viii2807**
ISC	**VIII**	**20 14 26 23**±1.6	**18.5S**±.28	**172.5W**±.30	**33**	**3.7b**		**6 43-141**	**¶97viii2971**
EIDC	VIII	20 14 26 19.0	18.3S	172.4W	0	3.6b			
EIDC	**VIII**	**21 19 44 55.3**	**22.0S**	**173.6W**	**0**	**3.4b**		**48-89**	**¶97viii3134**
EIDC	**VIII**	**22 18 57 55.4**	**23.7S**	**174.1W**	**0**	**4.0b**		**37-91**	**¶97viii3265**
EIDC	**VIII**	**24 05 20 24.4**	**21.6S**	**166.7W**	**0**	**3.8b**		**47-87**	**¶97viii3484**
EIDC	**VIII**	**24 07 25 13.7**	**22.6S**	**172.9W**	**0**	**3.8b**		**38-49**	**¶97viii3493**
EIDC	**VIII**	**25 23 13 34.8**	**19.7S**	**172.5W**	**0**	**4.1b**		**39-50**	**¶97viii3751**
ISC	**VIII**	**27 05 22 36**±5.3	**23.5S**±.82	**173.3W**±.62	**33**	**4.6b**		**11 19-57**	**¶97viii3942**
EIDC	VIII	27 05 22 21.5	23.0S	171.9W	0	4.6b			
EIDC	**VIII**	**27 14 31 57.5**	**18.1S**	**171.6W**	**0**	**4.0b**		**40-51**	**¶97viii4002**
ISC	**VIII**	**28 12 35 57**±1.2	**17.1S**±.26	**170.6W**±.23	**33**	**3.7b**		**7 46-92**	**¶97viii4131**
EIDC	VIII	28 12 35 51.3	17.5S	170.1W	0	3.6b			
EIDC	**VIII**	**31 22 50 46.2**	**22.2S**	**175.1W**	**0**	**3.8b**		**40-47**	**¶97viii4722**
EIDC	**IX**	**01 10 19 51.9**	**20.8S**	**169.7W**	**0**	**4.2b**		**¶97ix0092**	
EIDC	**IX**	**01 17 52 29.3**	**18.1S**	**172.2W**	**0**	**3.8b**,4.8L		**¶97ix0148**	
ISC	**IX**	**02 03 16 43**±3.4	**23.9S**±.75	**173.9W**±.65	**33**	**4.3b**		**9 36-91**	**¶97ix0212**
EIDC	IX	02 03 16 40.2	23.6S	174.0W	0	4.0b			
NEIC	IX	02 03 16 42.6	23.96S	173.89W	33	4.4b			
EIDC	LO CONF Location								
NEIC	Poor solution.								
EIDC	**IX**	**04 00 59 18.5**	**22.4S**	**171.7W**	**0**	**4.2b**		**¶97ix0522**	
ISC	**IX**	**05 06 22 11**±4.3	**19.1S**±.96	**172.0W**±.86	**33**	**3.8b**		**5 39-86**	**¶97ix0704**
EIDC	IX	05 06 22 08.1	18.9S	172.0W	0	3.8b			
ISC	**IX**	**09 06 38 24.0**±.71	**22.9S**±.18	**174.5W**±.16	**33**	**4.1b**		**11 18-90**	**¶97ix1334**
EIDC	IX	09 06 38 20.5	22.8S	174.4W	0	4.1b			
NEIC	IX	09 06 38 23.8	22.92S	174.47W	33	4.5b			
NEIC	Less reliable solution.								
ISC	**IX**	**09 18 56 35**±4.3	**23.5S**±.98	**172.5W**±.80	**33**	**3.7b**		**5 38-90**	**¶97ix1428**
EIDC	IX	09 18 56 31.8	23.3S	172.6W	0	3.7b			
EIDC	**IX**	**10 11 08 58.8**	**22.1S**	**172.9W**	**0**	**4.2b**		**¶97ix1514**	
EIDC	**IX**	**11 02 47 50.6**	**22.3S**	**173.7W**	**0**	**4.0b**		**¶97ix1621**	
ISC	**IX**	**11 18 40 35**±2.1	**22.2S**±.52	**175.3W**±.40	**33**	**3.9b**,3.7s		**7 39-93**	**¶97ix1722**
EIDC	IX	11 18 40 31.1	22.2S	175.2W	0	3.9b,3.7s			
EIDC	**IX**	**11 21 04 41.8**	**18.9S**	**172.0W**	**0**	**4.4b**		**¶97ix1735**	
ISC	**IX**	**12 07 48 25**±2.3	**22.2S**±.85	**174.4W**±.43	**33**	**3.9b**,3.6s		**7 47-153**	**¶97ix1782**
EIDC	IX	12 07 48 21.9	22.0S	174.4W	0	3.8b,3.6s			
EIDC	**IX**	**16 06 13 51.1**	**19.9S**	**172.0W**	**0**	**4.3b**		**¶97ix2342**	
EIDC	**IX**	**16 09 00 15.8**	**21.1S**	**172.2W**	**0**	**3.8b**,3.6s		**¶97ix2358**	
EIDC	**IX**	**17 23 04 26.4**	**17.8S**	**171.2W**	**0**	**4.1b**		**¶97ix2574**	
EIDC	LO CONF Location								
EIDC	**IX**	**18 02 45 26.6**	**22.6S**	**173.6W**	**0**	**3.6b**		**¶97ix2598**	
EIDC	LO CONF Location								
EIDC	**IX**	**19 18 36 05.8**	**23.4S**	**174.1W**	**0**	**3.8b**		**¶97ix2828**	
EIDC	**IX**	**21 14 12 09.1**	**23.1S**	**172.9W**	**0**	**3.7b**		**¶97ix3112**	
EIDC	LO CONF Location								
EIDC	**IX**	**22 05 00 36.8**	**18.9S**	**170.3W**	**0**	**3.6b**		**¶97ix3219**	
EIDC	**IX**	**22 11 48 52.1**	**20.4S**	**172.3W**	**0**	**4.3b**		**¶97ix3271**	
ISC	**IX**	**23 12 32 19**±2.4	**19.5S**±.15	**169.5W**±.41	**33**	**3.9b**		**5 6-60**	**¶97ix3420**
EIDC	IX	23 12 32 17.5	19.5S	169.7W	0	4.0b,3.3L			
EIDC	**IX**	**24 04 46 29.2**	**21.9S**	**172.8W**	**0**	**4.2b**		**¶97ix3526**	
EIDC	**IX**	**24 16 29 50.9**	**23.3S**	**169.7W**	**0**	**4.0b**		**¶97ix3602**	
EIDC	LO CONF Location								
EIDC	**IX**	**27 07 09 39.0**	**18.4S**	**172.6W**	**0**	**4.2b**		**¶97ix4284**	
ISC	**IX**	**27 14 39 15**±1.5	**18.5S**±.23	**172.6W**±.29	**33**	**3.7b**		**6 5-85**	**¶97ix4378**
EIDC	IX	27 14 39 10.8	18.7S	172.4W	0	3.7b			
EIDC	**IX**	**28 04 25 53.1**	**18.7S**	**168.6W**	**0**	**3.8b**		**¶97ix4538**	
EIDC	LO CONF Location								
ISC	**IX**	**28 10 49 02**±2.6	**22.1S**±.36	**174.9W**±.34	**33**	**4.1b,4.0s**		**15 36-152**	**¶97ix4621**
EIDC	IX	28 10 48 58.8	22.1S	174.9W	0	4.2s,4.2b			
NEIC	IX	28 10 49 02.7	22.18S	175.00W	33	3.9b			
NEIC	Poor solution.								
EIDC	**IX**	**30 06 50 55.6**	**21.9S**	**172.9W**	**0**	**3.7b**		**¶97ix5150**	
EIDC	**X**	**01 09 16 00.6**	**22.4S**	**172.7W**	**0**	**3.9b**		**¶97x0064**	
EIDC	**X**	**03 15 46 32.6**	**23.0S**	**174.1W**	**0**	**4.0b**		**¶97x0487**	
EIDC	LO CONF Location								
ISC	**X**	**06 18 33 26**±3.1	**22.7S**±.11	**175.92W**±.098	**36**±27	**4.8b**,5.5s		**82 7-162**	
BJI	X	06 18 33 06.0	22.70S	175.80W	33	5.6b,5.4s			**¶97x1098**
EIDC	X	06 18 33 22.3	22.6S	175.7W	0	4.7b,5.2L			
NEIC	X	06 18 33 26.0	22.71S	175.80W	33	4.9b			
NEIC	Less reliable solution.								
EIDC	**X**	**08 18 25 12.9**	**22.2S**	**172.3W**	**0**	**4.2b**			**¶97x1449**
EIDC	**X**	**08 19 28 52.2**	**22.9S**	**174.5W**	**0**	**4.2b**			**¶97x1461**
EIDC	**X**	**09 11 14 39.0**	**23.4S**	**172.3W**	**0**	**3.9b**			**¶97x1577**
EIDC	**X**	**10 21 54 48.3**	**23.4S**	**174.3W**	**0**	**3.9b**			**¶97x1804**
EIDC	**X**	**11 03 12 52.8**	**24.0S**	**173.6W**	**0**	**3.8b**			**¶97x1836**
EIDC	LO CONF Location								
EIDC	**X**	**11 13 13 52.3**	**22.7S**	**169.7W**	**0**	**4.1b**			**¶97x1897**
EIDC	LO CONF Location								
EIDC	**X**	**12 18 22 26.6**	**17.9S**	**172.7W**	**267**	**3.2b**			**¶97x2086**
EIDC	**X**	**13 06 16 41.3**	**22.6S**	**172.4W**	**0**	**3.9b**			**¶97x2168**
ISC	**X**	**14 10 09 54**±2.6	**20.5S**±.31	**173.0W**±.41	**33**	**4.7b**		**10 7-87**	
EIDC	X	14 10 09 48.8	20.9S	172.6W	0	4.6b			**¶97x2373**
NEIC	X	14 10 09 51.8	20.73S	172.55W	33	4.9b			
NEIC	Less reliable solution.								
EIDC	**X**	**14 12 26 29.2**	**19.5S**	**172.0W**	**0**	**4.3b**			**¶97x2403**
ISC	**X**	**15 15 25 47.3**±.74	**17.9S**±.17	**173.0W**±.16	**33**	**4.2b**,3.8s		**18 4-149**	
EIDC	X	15 15 25 43.4	18.1S	172.8W	0	4.2b,3.8s			**¶97x2667**
NEIC	X	15 15 25 47.2	17.94S	172.94W	33	4.3b			
NEIC	Less reliable solution.								
EIDC	**X**	**17 04 41 33.9**	**17.3S**	**171.2W**	**0**	**4.5b**			**¶97x2929**
ISC	**X**	**17 12 11 03.1**±.40	**23.58S**±.092	**175.68W**±.079	**33**	**4.7b,4.6s**		**53 6-157**	
EIDC	X	17 12 10 59.0	23.6S	175.6W	0	4.6b,4.4s			**¶97x2984**
BJI	X	17 12 11 02.7	23.70S	175.70W	33	5.2b,5.3s			
NEIC	X	17 12 11 02.7	23.66S	175.68W	33	4.7b			
NEIC	Less reliable solution.								
ISC	**X**	**18 10 21 20.3**±.36	**22.9S**±.11	**174.79W**±.079	**33**	**4.7b,3.9s**		**43 9-151**	
EIDC	X	18 10 21 16.4	22.9S	174.7W	0	4.7b,3.9s			**¶97x3138**
NEIC	X	18 10 21 20.2	22.90S	174.79W	33	4.6b			
BJI	X	18 10 21 22.2	22.90S	174.80W	33	4.6b			
ISC	**X**	**18 14 21 49**±6.9	**23.0S**±.27	**175.3W**±.26	**187**±60	**4.0b**		**12 17-86**	
EIDC	X	18 14 21 28.5	23.0S	175.0W	0	4.1b			**¶97x3176**
NEIC	X	18 14 21 50.9	23.04S	175.27W	200	4.1b			
NEIC	Poor solution.								
EIDC	**X**	**18 20 15 15.7**	**22.2S**	**175.0W**	**37**	**3.4b**			**¶97x3227**
ISC	**X**	**20 00 13 00.0**±.64	**22.8S**±.16	**174.9W**±.11	**33**	**4.6b,4.2s**		**26 9-151**	
EIDC	X	20 00 12 55.9	23.0S	174.7W	0	4.5b,4.3s			**¶97x3407**
NEIC	X	20 00 12 59.9	22.76S	174.91W	33	4.6b			
NEIC	Less reliable solution.								
ISC	**X**	**20 00 22 56**±7.9	**23.3S**±.42	**174.6W**±.30	**54**±63	**4.1b**		**11 17-94**	
EIDC	X	20 00 22 49.9	23.2S	174.6W	0	4.2b			**¶97x3409**
NEIC	X	20 00 22 53.3	23.33S	174.62W	33	4.3b			
NEIC	Poor solution.								
ISC	**X**	**20 04 39 15.5**±.85	**23.1S**±.22	**174.7W**±.14	**33**	**4.4b**,3.8s		**17 10-94**	
EIDC	X	20 04 39 12.0	22.8S	174.7W	0	4.4b,3.8s			**¶97x3440**
NEIC	X	20 04 39 15.5	22.56S	174.84W	33	4.5b			
NEIC	Poor solution.								
EIDC	**X**	**20 10 00 56.9**	**22.5S**	**171.6W**	**0**	**3.7b**			**¶97x3474**
EIDC	LO CONF Location								
ISC	**X**	**23 14 13 44**±1.9	**22.7S**±.69	**175.0W**±.41	**33**	**3.9b**		**6 39-90**	
EIDC	X	23 14 13 40.4	22.7S	174.9W	0	3.9b			**¶97x4012**
ISC	**X**	**23 17 47 46**±1.3	**22.7S**±.30	**175.6W**±.20	**33**	**4.2b**,4.1s		**10 36-116**	
NEIC	X	23 17 47 45.6	22.78S	175.61W	33	4.4b			**¶97x4040**
EIDC	X	23 17 47 48.1	22.7S	175.6W	40	4.0b,3.9s			
NEIC	Poor solution.								
EIDC	**X**	**23 21 01 58.2**	**23.5S**	**173.7W**	**0**	**3.9b**			**¶97x4064**
EIDC	**X**	**24 14 16 47.1**	**24.0S**	**172.8W**	**0**	**4.1b**			**¶97x4182**
EIDC	LO CONF Location								
EIDC	**X**	**26 10 20 35.6**	**22.9S**	**172.5W**	**0**	**3.8b**			**¶97x4448**
ISC	**X**	**28 01 24 28.1**±.66	**23.0S**±.19	**174.9W**±.12	**33**	**4.5b**		**28 10-158**	
EIDC	X	28 01 24 24.5	23.0S	174.7W	0	4.4b			**¶97x4681**
NEIC	X	28 01 24 28.0	23.05S	174.89W	33	4.6b			
NEIC	Less reliable solution.								
EIDC	**X**	**28 09 46 30.4**	**17.2S**	**171.6W**	**0**	**4.0b**			**¶97x4739**
EIDC	LO CONF Location								
EIDC	**X**	**28 16 14 04.2**	**22.4S**	**174.5W**	**0**	**3.7b**			**¶97x4788**
EIDC	**XI**	**05 14 12 45.5**	**23.8S**	**172.3W**	**0**	**3.9b**			**¶97xi0815**
EIDC	**XI**	**07 13 59 27.2**	**23.3S**	**172.7W**	**0**	**4.3b**			**¶97xi1132**
ISC	**XI**	**12 03 43 33**±2.9	**20.2S**±.78	**171.5W**±.57	**33**	**4.5b**		**8 40-94**	
EIDC	XI	12 03 43 35.8	19.9S	172.4W	0	4.5b			**¶97xi1929**
ISC	**XI**	**13 09 30 43**±6.9	**18.8S**±.84	**170.2W**±.94	**33**	**4.4b**		**8 22-55**	
EIDC	XI	13 09 30 55.6	19.0S	172.3W	0	4.3b			**¶97xi2110**
EIDC	**XI**	**13 10 24 05.4**	**20.2S**	**172.3W**	**0**	**4.1b**			**¶97xi2120**
EIDC	LO CONF Location								
ISC	**XI**	**14 05 04 33.9**±.85	**20.2S**±.35	**172.7W**±.16	**33**	**4.3b**		**8 19-86**	
EIDC	XI	14 05 04 29.7	20.1S	172.6W	0	4.2b			**¶97xi2242**
ISC	**XI**	**17 23 30 52**±1.6	**22.5S**±.52	**174.3W**±.19	**33**	**4.7b**		**13 31-159**	
EIDC	XI	17 23 30 49.5	23.3S	174.1W	0	4.7b			**¶97xi2877**
NEIC	XI	17 23 30 52.7	23.00S	174.21W	33	4.8b			
NEIC	Poor solution.								
EIDC	**XI**	**19 09 44 11.1**	**17.7S**	**166.1W**	**0**	**4.7b**			**¶97xi3188**
EIDC	LO CONF Location								
EIDC	**XI**	**19 11 31 41.4**	**23.1S**	**171.3W**	**0**	**3.9b**			**¶97xi3206**
EIDC	LO CONF Location								
EIDC	**XI**	**20 13 37 29.0**	**18.2S**	**172.4W**	**0**	**4.3b**			**¶97xi3472**
EIDC	**XI**	**20 15 52 29.7**	**23.1S**	**174.5W**	**0**	**3.7b**			**¶97xi3487**
EIDC	LO CONF Location								
EIDC	**XI**	**24 22 01 16.7**	**18.7S**	**172.0W**	**0**	**4.0b**			**¶97xi4394**
EIDC	**XI**	**25 02 14 44.3**	**19.0S**	**172.7W**	**0**	**4.3b**			**¶97xi4427**
EIDC	**XI**	**25 10 11 27.5**	**22.3S**	**174.4W**	**0**	**3.5b**			**¶97xi4487**
EIDC	LO CONF								
ISC	**XI**	**27 07 42 49.9**±.90	**19.3S**±.26	**173.0W**±.18	**33**	**4.0b**,3.6s		**15 19-150**	
EIDC	XI	27 07 42 46.2	19.3S	172.9W	0	4.1b,3.6s			**¶97xi4827**
NEIC	XI	27 07 42 49.9	19.33S	172.99W	33	4.1b			
NEIC	Poor solution.								
EIDC	**XI**	**27 09 18 00.5**	**17.1S**	**172.6W**	**0**	**4.7b**			**¶97xi4837**
EIDC	**XII**	**02 16 02 30.9**±4.81	**22.5S**	**166.7W**	**0**	**3.9b**			**47-80**
EIDC	Error ellipse is semi-major=230.2km semi-minor=36.6km azimuth=8								**¶97xii0279**
ISC	**XII**	**04 04 48 39**±1.4	**22.3S**±.23	**175.3W**±.31	**33**	**3.8b**		**5 47-89**	
EIDC	XII	04 04 48 35.8±1.73	22.1S	175.3W	0	3.7b			**¶97xii0558**
EIDC	Error ellipse is semi-major=43.8km semi-minor=41.3km azimuth=124								
ISC	**XII**	**04 05 33 01.9**±.35	**22.27S**±.081	**175.09W**±.080	**33**	**4.9b,5.2s**		**81 16-164**	
EIDC	XII	04 05 32 58.3±.61	22.2S	175.0W	0	4.6b,5.2s			**¶97xii0562**
NEIC	XII	04 05 33 01.6	22.17S	175.13W	33	4.9b,5.3s			
BJI	XII	04 05 33 03.6	21.56S	174.72W	36	5.3b,5.5s			
HRVD	XII	04 05 33 03.7±.5	22.29S±.06	174.18W±.06	15				
EIDC	Error ellipse is semi-major=23.1km semi-minor=13.2km azimuth=158								
NEIC	Mw5.5(HRV).								

Agency Origin Time φ λ h Mag n Δ-Rng
mo d h m s ° ° km °

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c32; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.80±.05; $M_{\theta\theta}$0.28±.08; $M_{\phi\phi}$−1.08±.06; $M_{r\theta}$0.62±.12; $M_{r\phi}$1.30±.12; $M_{\theta\phi}$−0.09±.06. Principal Axes: T 1.66,Plg58°,Azm312°; N 0.15, Plg14°,Azm199°; P −1.81,Plg28°,Azm101°. Best double couple: $M_0$1.7×10^{17}Nm, NP1: ϕ_S159°,δ21°,λ48°. NP2:ϕ_S23°,δ75°,λ104°.

EIDC XII 05 06 50 56.1 17.8S 170.6W 0 4.0b,3.1L **4-52**
¶97xii0797

EIDC Origin time error = 15.44Error ellipse is semi−major=330.5km semi−minor=42.8km azimuth=101

EIDC XII 05 11 55 54.8 19.0S 172.0W 0 4.2b 39-50
¶97xii0847

EIDC Origin time error = 27.72Error ellipse is semi−major=516.3km semi−minor=186.0km azimuth=72

EIDC XII 08 02 53 53.5 18.1S 172.7W 0 4.3b 40-50
¶97xii1846

EIDC Origin time error = 65.60Error ellipse is semi−major=1237.2km semi−minor=99.8km azimuth=76

EIDC XII 09 02 26 06.6 21.0S 172.7W 0 3.9b 38-49
¶97xii2079

EIDC Origin time error = 29.16Error ellipse is semi−major=535.8km semi−minor=162.9km azimuth=75

ISC XII 09 14 19 48.0±.22 **17.31S**±.053 **172.53W**±.062 **33 4.9b,4.8s 166 20-156**
EIDC XII 09 14 19 44.4±.62 17.3S 172.4W 0 5.0b,4.7s **¶97xii2187**
NEIC XII 09 14 19 47.7 17.25S 172.61W 33 4.9b,4.8s
BJI XII 09 14 19 49.4 16.31S 171.89W 31 5.3b,5.2s
EIDC Error ellipse is semi−major=25.6km semi−minor=16.2km azimuth=136

EIDC XII 11 12 34 26.4±7.74 **19.8S 172.0W 0 4.2b 39-86**
¶97xii2563

EIDC Error ellipse is semi−major=331.5km semi−minor=35.2km azimuth=143

ISC XII 12 00 45 07.8±.48 **22.3S**±.12 **174.97W**±.091 **33 5.0b,5.0s 77 9-164**
EIDC XII 12 00 45 04.7±.65 22.1S 174.9W 0 4.7b,4.9s **¶97xii2673**
NEIC XII 12 00 45 07.6 22.23S 175.03W 33 5.0b,5.1s
HRVD XII 12 00 45 08.7±.9 21.99S±.17 174.12W±.12 15
BJI XII 12 00 45 11.3 21.75S 174.22W 58 5.4b,5.1s
EIDC Error ellipse is semi−major=24.9km semi−minor=17.3km azimuth=138
NEIC Mw5.3(HRV), Less reliable solution.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c19; Half duration: 1s3. Moment tensor: Scale 10^{16}Nm; M_{rr}5.01±.76; $M_{\theta\theta}$−0.19±.91; $M_{\phi\phi}$−4.81±.64; $M_{r\theta}$4.98±3.02; $M_{r\phi}$7.88±2.39; $M_{\theta\phi}$1.58±.94. Principal Axes: T 11.6,Plg54°,Azm313°; N −2.3, Plg16°,Azm199°; P −9.3,Plg31°,Azm99°. Best double couple: $M_0$1.0×10^{17}Nm, NP1:ϕ_S148°, δ20°,λ37°. NP2:ϕ_S22°,δ78°,λ107°.

EIDC XII 12 12 07 05.8 23.7S 175.4W 0 3.8b 39-98
¶97xii2746

EIDC Origin time error = 109.37Error ellipse is semi−major=2033.2km semi−minor=202.5km azimuth=89LO CONF Location

EIDC XII 16 07 56 49.6 22.6S 174.5W 0 3.8b 40-48
¶97xii3410

EIDC Origin time error = 106.64Error ellipse is semi−major=1999.6km semi−minor=188.7km azimuth=88LO CONF Location

EIDC XII 16 19 45 47.3 19.7S 172.0W 0 4.2b 43-50
¶97xii3494

EIDC Origin time error = 93.18Error ellipse is semi−major=1793.0km semi−minor=189.1km azimuth=85LO CONF

EIDC XII 17 14 31 17.3±4.45 **23.7S 167.2W 0 4.2b 40-155**
¶97xii3615

EIDC Error ellipse is semi−major=260.6km semi−minor=53.8km azimuth=150LO CONF

EIDC XII 18 03 00 11.8 23.6S 173.9W 0 3.6b 40-48
¶97xii3703

EIDC Origin time error = 113.39Error ellipse is semi−major=2135.4km semi−minor=223.0km azimuth=90

EIDC XII 21 07 55 19.0 22.9S 175.4W 0 4.5b 36-55
¶97xii4232

EIDC Origin time error = 19.25Error ellipse is semi−major=350.3km semi−minor=139.7km azimuth=81

EIDC XII 23 00 12 47.0 22.8S 173.9W 0 4.0b 37-48
¶97xii4507

EIDC Origin time error = 32.37Error ellipse is semi−major=586.8km semi−minor=158.6km azimuth=78

EIDC XII 25 07 31 59.6 20.3S 172.4W 0 4.1b 39-50
¶97xii4885

EIDC Origin time error = 28.30Error ellipse is semi−major=525.2km semi−minor=97.4km azimuth=79

ISC XII 25 19 14 00±1.6 **17.0S**±.39 **172.4W**±.33 **33 3.9b 10 44-94**
EIDC XII 25 19 13 55.9±1.88 17.0S 172.3W 0 3.9b **¶97xii4977**
NEIC XII 25 19 13 59.9 16.97S 172.41W 33 3.9b
EIDC Error ellipse is semi−major=82.5km semi−minor=22.7km azimuth=143
NEIC Poor solution.

EIDC XII 26 09 57 18.7 21.1S 172.1W 0 4.2b 39-50
¶97xii5099

EIDC Origin time error = 27.90Error ellipse is semi−major=516.7km semi−minor=176.4km azimuth=74

EIDC XII 26 11 06 26.3 19.9S 166.6W 0 3.8b 48-55
¶97xii5109

EIDC Origin time error = 86.48Error ellipse is semi−major=1763.6km semi−minor=255.9km azimuth=88LO CONF

EIDC XII 28 07 01 31.0 21.7S 170.9W 0 4.0b 43-51
¶97xii5416

EIDC Origin time error = 96.85Error ellipse is semi−major=1883.3km semi−minor=207.8km azimuth=88

EIDC XII 29 03 55 43.1 23.7S 175.4W 0 4.1b 36-55
¶97xii5542

EIDC Origin time error = 18.68Error ellipse is semi−major=342.6km semi−minor=147.5km azimuth=84

EIDC XII 29 14 53 02.1 22.3S 171.7W 0 3.9b 39-50
¶97xii5599

EIDC Origin time error = 29.47Error ellipse is semi−major=546.7km semi−minor=181.6km azimuth=76LO CONF Location

EIDC XII 31 10 43 05.3±2.62 **22.5S 169.3W 0 3.7b 44-82**
EIDC Error ellipse is semi−major=82.6km semi−minor=29.3km azimuth=16 **¶97xii5880**

ISC XII 31 19 31 48±4.3 **17.2S**±.33 **172.6W**±.27 **38**±33 **4.2b 18 3-148**
NEIC XII 31 19 31 46.7 17.21S 172.53W 33 4.2b **¶97xii5958**
EIDC XII 31 19 31 48.6±.94 17.1S 172.5W 31±4.2 3.9b,4.0L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=45.3km semi−minor=14.3km azimuth=142

(175) South of Tonga.

ISC VII 24 03 09 42±5.8 **25.3S**±.19 **175.5W**±.20 **166**±51 **3.9b 21 17-156**
EIDC VII 24 03 09 24.4 25.0S 175.4W 0 4.1b **¶97vii3602**
NEIC VII 24 03 09 27.9 25.09S 175.40W 33 4.1b
NEIC Less reliable solution.

ISC VIII 24 20 06 06.3±.90 **24.6S**±.24 **175.3W**±.19 **39**±1.8* **3.8b,**3.6s **8 46-157**
NEIC VIII 24 20 06 05.6 24.63S 175.33W 33 4.1b **¶97viii3584**
EIDC VIII 24 20 06 08.1 24.6S 175.3W 39 3.6b,3.7s
NEIC Less reliable solution.

EIDC IX 11 11 23 02.6 25.6S 171.5W 0 4.1b ¶97ix1669
EIDC LO CONF Location

ISC IX 11 23 44 01±1.3 **24.5S**±.30 **174.7W**±.25 **400 3.2b 6 47-155**
EIDC IX 11 23 44 10.3 24.4S 174.8W 494 3.0b **¶97ix1746**

NEIC IX 21 19 49 54.7 25.35S 173.04W 33 4.3b 19-149
EIDC IX 21 19 49 48.8 24.9S 172.7W 0 4.3b **¶97ix3150**
NEIC Poor solution.

EIDC X 09 23 28 25.8 27.0S 170.7W 0 3.9b ¶97x1656
EIDC X 11 12 05 12.7 25.4S 170.3W 0 4.1b ¶97x1889
EIDC LO CONF Location

ISC X 12 01 24 56.8±.94 **24.8S**±.24 **175.0W**±.18 **54**±2.6* **4.1b 12 36-155**
NEIC X 12 01 24 54.5 24.84S 174.99W 33 3.9b **¶97x1968**
EIDC X 12 01 24 58.7 24.8S 175.0W 56 3.9b
NEIC Poor solution.

ISC XI 08 04 25 38±2.5 **24.5S**±.62 **173.6W**±.36 **33 4.0b 6 19-91**
EIDC XI 08 04 25 57.1 18.6S 177.9W 0 3.8b **¶97xi1210**

ISC XI 12 02 01 41±3.2 **24.1S**±.52 **175.6W**±.47 **46 4.2b,**3.5s **6 35-93**
NEIC XI 12 02 01 41.3 24.18S 175.65W 46 4.0b **¶97xi1919**
EIDC XI 12 02 01 41.5 24.0S 175.4W 43 4.0b,3.5s
NEIC Poor solution.

EIDC XI 17 10 32 54.0 24.3S 173.1W 0 4.0b ¶97xi2779
EIDC LO CONF Location

EIDC XII 04 14 59 33.1 24.6S 172.8W 0 3.9b 38-76
¶97xii0635

EIDC Origin time error = 30.88Error ellipse is semi−major=562.8km semi−minor=159.1km azimuth=79

EIDC XII 22 23 58 21.4±2.97 **24.2S 175.9W 266**±13.1 **3.1b 46-154**
EIDC Error ellipse is semi−major=64.8km semi−minor=46.5km azimuth=43 **¶97xii4505**

EIDC XII 23 15 06 25.9±5.24 **24.3S 174.2W 0** 3.6b **47-157**
¶97xii4619

EIDC Error ellipse is semi−major=548.8km semi−minor=72.3km azimuth=180

EIDC XII 27 17 17 48.4 24.1S 172.5W 0 4.2b 35-49
¶97xii5322

EIDC Origin time error = 31.39Error ellipse is semi−major=577.2km semi−minor=176.3km azimuth=80

(176) North of New Zealand.

EIDC VII 05 02 31 12.0 31.9S 177.8E 700 2.7b **6-147**
¶97vii0662

WEL VIII 02 03 57 58.8 34.68S 177.21E 12 5.0L **¶97viii0167**
ISC X 10 17 34 49±4.4 **30.6S**±.40 **175.9E**±.59 **33** 3.6b **5 7-39**
¶97x1782

(177) Kermadec Islands region.

EIDC VII 01 05 11 45.7 31.0S 179.3E 496 2.8b 32-155
¶97vii0035

ISC VII 01 10 37 19.7±.97 **31.1S**±.12 **178.7W**±.16 **33 4.4b 22 2-150**
NEIC VII 01 10 37 35.2 31.08S 178.60W 200 4.2b **¶97vii0069**
EIDC VII 01 10 37 37.6 31.1S 178.7W 204 3.9b
NEIC Less reliable solution.

EIDC VII 01 22 08 50.8 31.8S 178.1W 0 3.6b **43-146**
¶97vii0147

NEIC VII 04 05 12 28.3 31.28S 179.28W 33 4.4b 42-150
EIDC VII 04 05 12 22.7 32.3S 178.9W 0 4.5b **¶97vii0506**
NEIC Poor solution.

EIDC VII 09 14 04 58.6 31.3S 178.1W 45 3.2b **43-150**
¶97vii1348

EIDC VII 14 15 51 22.2 31.8S 178.4W 0 3.7b **43-149**
¶97vii2167

EIDC VII 17 15 47 00.4 27.8S 176.9W 0 3.8b,3.6s **2-153**
¶97vii2613

EIDC VII 19 18 09 10.4 31.4S 178.0W 0 3.8b **43-150**
¶97vii2931

NEIC VII 20 15 48 31.8 31.85S 178.91W 150 4.1b 7-150
EIDC VII 20 15 48 11.1 32.2S 178.1W 0 4.2b,4.0s **¶97vii3116**
NEIC Poor solution.

EIDC VII 24 17 08 43.1 28.0S 177.7W 0 3.5b 1-153
¶97vii3704

ISC VII 26 06 14 09±2.9 **28.2S**±.22 **179.9E**±.13 **502**±39 **3.8b 32 9-151**
EIDC VII 26 06 14 09.1 27.9S 179.7E 481 3.3b **¶97vii3929**
NEIC VII 26 06 14 10.6 27.63S 179.64E 500 4.0b
NEIC Poor solution.

ISC VII 27 02 46 21.1±.97 **28.1S**±.21 **170.5W**±.20 **33 4.1b 8 41-94**
EIDC VII 27 02 46 17.1 28.1S 170.4W 0 4.2b **¶97vii4050**

ISC VII 31 02 09 13.5±.98 **30.37S**±.090 **179.12E**±.090 **527**±13 **4.3b 60 3-149**
EIDC VII 31 02 09 12.6 30.3S 179.3E 515 3.7b **¶97vii4663**
NEIC VII 31 02 09 15.2 30.38S 179.03E 550 4.5b

ISC VIII 01 07 20 17.9±.64 **31.75S**±.052 **179.4E**±.11 **515 4.7b 77 3-155**
EIDC VIII 01 07 20 20.3 31.5S 179.3E 515 4.1b **¶97viii0038**
NEIC VIII 01 07 20 23.4 31.65S 178.95E 550 4.8b
NEIC Less reliable solution.

EIDC VIII 04 23 34 13.8 32.0S 178.4W 0 3.6b **39-149**
¶97viii0576

EIDC VIII 05 17 05 03.0 29.5S 173.9W 0 3.7b 38-48
¶97viii0692

EIDC VIII 09 09 14 33.1 31.3S 178.7W 0 3.6b **42-149**
¶97viii1231

NEIC VIII 10 05 13 07.3 28.57S 177.94W 33 4.2b **35-152**
EIDC VIII 10 05 13 00.8 30.2S 177.3W 0 3.9b **¶97viii1352**
NEIC Poor solution.

ISC VIII 12 08 20 03±1.1 **28.9S**±.17 **178.7W**±.22 **195**±13 **4.0b 27 1-151**
NEIC VIII 12 08 20 03.0 28.92S 178.66W 200 4.2b **¶97viii1701**
EIDC VIII 12 08 20 06.3 28.8S 178.6W 230 3.8b
NEIC Less reliable solution.

EIDC VIII 14 17 00 06.3 28.5S 174.0W 0 4.0b 37-48
¶97viii2093

ISC VIII 17 12 21 22±1.1 **29.8S**±.18 **176.9W**±.16 **33 4.0b 20 1-152**
EIDC VIII 17 12 21 19.4 29.1S 177.1W 0 4.0b **¶97viii2541**
NEIC VIII 17 12 21 21.7 29.80S 176.90W 33 4.2b
NEIC Poor solution.

ISC VIII 22 10 00 25.1±.78 **28.74S**±.068 **179.15W**±.097 **403**±9.9 **4.2b 82 1-168**
BJI VIII 22 10 00 25.1 28.11S 179.28W 386 4.8b **¶97viii3210**
NEIC VIII 22 10 00 26.0 28.37S 179.35W 396 4.3b

EIDC VIII 22 10 00 28.5 28.3S 179.3W 411 3.9b
NEIC Less reliable solution.
EIDC VIII 25 13 25 18.1 30.8S 174.2W 0 3.6b 46-98 ¶97viii3695
EIDC VIII 27 16 54 16.9 30.7S 179.5W 0 3.9b 7-146 ¶97viii4013
ISC IX 06 06 04 14±1.2 **29.2S**±.19 **179.1W**±.25 **209**±16 **3.6b 14 1-148**
EIDC IX 06 06 04 27.8 28.7S 178.8W 370 3.3b **¶97ix0866**
EIDC IX 06 08 04 20.9 30.7S 176.0W 0 3.7b **¶97ix0882**
EIDC LO CONF Location
ISC IX 08 08 41 24.4±.69 **30.44S**±.061 **179.4W**±.10 **314**±8.2 **3.9b 102 2-170**
EIDC IX 08 08 41 27.1 30.3S 179.6W 324 3.7b **¶97ix1198**
NEIC IX 08 08 41 28.1 30.41S 179.52W 350 3.9b
NEIC Less reliable solution.
EIDC IX 09 13 36 07.6 30.3S 179.8W 560 3.4b ¶97ix1381
EIDC IX 10 23 10 31.4 28.1S 176.2W 0 4.3b ¶97ix1595
EIDC IX 12 02 19 22.3 30.1S 175.5W 0 4.0b ¶97ix1761
EIDC IX 13 09 06 14.2 31.3S 179.9E 465 2.7b **¶97ix1958**
ISC IX 15 01 39 38±2.7 **31.54S**±.066 **178.54W**±.097 **21**±20 **4.8b 51 2-171**
NEIC IX 15 01 39 52.9 31.40S 178.67W 158 4.7b **¶97ix2185**
EIDC IX 15 01 39 54.8 31.4S 178.6W 158 4.2b
NEIC Less reliable solution.
ISC IX 19 19 00 29±4.1 **31.6S**±.51 **179.5W**±.57 **33 4.2b 17 28-150**
EIDC IX 19 19 00 13.3 31.4S 177.7W 0 4.4b **¶97ix2831**
ISC IX 20 16 11 29.5±.14 **28.74S**±.037 **177.58W**±.034 **11 6.1b,6.9s 729 1-173**
EIDC IX 20 16 11 31.0 28.8S 177.5W 11 5.8b,6.9s **¶97ix2961**
NEIC IX 20 16 11 32.1 28.68S 177.62W 30 6.1b,7.0s
BJI IX 20 16 11 32.6 28.30S 177.21W 29 6.2b,7.0s
MOS IX 20 16 11 33.4 28.5S 177.6W 33 6.7b,6.8s
HRVD IX 20 16 11 43.0±.1 28.83S 176.99W 46±.2
WEL Felt I=VI MM Raoul Island
NEIC Ms7.1(BRK), Mw7.0(HRV).
NEIC Mw 6.9 (GS). Me 6.5 (GS). Mo=4.4×10^{19}Nm (PPT).
NEIC Radiated energy from the P−wave first−motion solution: 1.3±0.2×10^{14}Nm/23
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S180°,δ35°,λ80°. NP2:ϕ_S12°,δ56°,λ97°. Principal axes: T Plg78°,Azm307°; P Plg10°,Azm97°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s42, scale 10^{19}Nm; M_{rr}2.48; $M_{\theta\theta}$0.16; $M_{\phi\phi}$−2.64; $M_{r\theta}$0.29; $M_{r\phi}$0.60; $M_{\theta\phi}$0.86. Depth 35km; Principal axes: T 2.61,Plg78°,Azm320°; N 0.32,Plg11°,Azm166°; P −2.93,Plg5°,Azm75°. Best double couple: $M_0$2.8×10^{19}Nm; NP1:ϕ_S153°,δ41°,λ73°. NP2: ϕ_S355°,δ51°,λ104°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s66,c181; Mantle waves: s63,c176; Half duration: 7s7. Moment tensor: Scale 10^{19}Nm; M_{rr}2.88±.01; $M_{\theta\theta}$−0.06±.01; $M_{\phi\phi}$−2.82±.01; $M_{r\theta}$0.49±.02; $M_{r\phi}$1.74±.02; $M_{\theta\phi}$−0.81±.01. Principal Axes: T 3.39,Plg74°,Azm286°; N 0.16,Plg0°,Azm195°; P −3.55,Plg16°,Azm105°. Best double couple: $M_0$3.5×10^{19}Nm, NP1:ϕ_S195°,δ29°,λ90°. NP2:ϕ_S15°,δ61°,λ90°.
ISC IX 20 16 31 39±3.0 **27.4S**±.24 **178.5W**±.41 **250 3.8b 12 11-75**
EIDC IX 20 16 31 54.3 27.2S 178.5W 401 3.5b **¶97ix2968**
ISC IX 20 16 34 46±1.6 **28.8S**±.17 **177.6W**±.15 **72**±13 **4.1b 26 0-158**
EIDC IX 20 16 34 37.6 28.7S 177.5W 0 4.3b **¶97ix2969**
NEIC IX 20 16 34 45.8 28.85S 177.59W 74 4.3b
WEL Felt I=IV MM Raoul Island
NEIC Less reliable solution.
ISC IX 20 17 25 55±1.7 **28.4S**±.27 **177.5W**±.23 **33 4.0b 11 1-147**
EIDC IX 20 17 25 49.9 28.2S 177.3W 0 4.0b **¶97ix2974**
NEIC IX 20 17 25 56.3 28.76S 177.66W 33 4.0b
WEL Felt I=IV MM Raoul Island
NEIC Poor solution.
ISC IX 20 17 31 48±2.4 **28.3S**±.16 **177.5W**±.41 **33 3.8b 9 1-147**
EIDC IX 20 17 31 43.5 28.5S 177.4W 0 3.9b **¶97ix2977**
NEIC IX 20 17 31 47.9 28.57S 177.57W 33
NEIC Poor solution.
WEL Felt I=IV MM Raoul Island
ISC IX 20 18 29 12±1.5 **28.4S**±.18 **177.6W**±.23 **33 3.8b 13 1-147**
EIDC IX 20 18 29 09.9 28.9S 177.7W 0 3.9b **¶97ix2985**
NEIC IX 20 18 29 12.7 28.45S 177.71W 33 3.5b
WEL Felt I=II MM Raoul Felt Island
NEIC Poor solution.
ISC IX 20 20 03 57 28.7S 177.6W 33 4.0b 7 1-147
EIDC IX 20 20 02 27.6 29.9S 164.6W 0 4.1b **¶97ix2997**
ISC Assigned origin
NEIC IX 21 01 26 25.9 30.18S 176.45W 33 3.6b **2-149**
EIDC IX 21 01 26 25.2 29.5S 176.8W 0 3.7b **¶97ix3026**
NEIC Poor solution.
EIDC LO CONF Location
ISC IX 21 22 08 23±1.6 **28.8S**±.15 **177.6W**±.13 **67**±13 **4.2b 31 1-158**
EIDC IX 21 22 08 23.1 28.7S 177.5W 59 4.1b,3.9s **¶97ix3174**
NEIC IX 21 22 08 32.4 28.92S 177.66W 150 4.1b
WEL Felt I=II MM Raoul Island
NEIC Less reliable solution.
EIDC IX 22 18 37 57.6 28.6S 177.1W 0 3.8b ¶97ix3315
EIDC IX 23 08 31 00.5 27.2S 177.2W 0 3.8b ¶97ix3401
EIDC IX 25 16 34 04.8 27.9S 178.0W 0 4.0b ¶97ix3761
ISC IX 25 23 26 53.3±.21 **27.25S**±.054 **176.76W**±.055 **42**±1.3* **5.2b,5.3s 261 2-166**
MOS IX 25 23 26 52.6 27.0S 176.8W 33 5.6b,4.9s **¶97ix3805**
NEIC IX 25 23 26 53.3 27.09S 176.78W 41 5.3b,5.3s
BJI IX 25 23 26 53.5 26.81S 176.48W 40 5.4b
EIDC IX 25 23 26 55.5 27.0S 176.7W 44 4.8b
HRVD IX 25 23 26 56.7±.2 27.18S±.03 176.35W±.03 34±2.2
NEIC Mw5.5(HRV), Mw5.4(GS).
NEIC Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}−1.10; $M_{\theta\theta}$0.35; $M_{\phi\phi}$0.74; $M_{r\theta}$−0.53; $M_{r\phi}$0.61; $M_{\theta\phi}$1.02. Depth 26km; Principal axes: T 1.60,Plg3°,Azm308°; N 0.05,Plg34°, Azm216°; P −1.65,Plg55°,Azm43°. Best double couple: $M_0$1.6×10^{17}Nm; NP1:ϕ_S69°,δ52°, λ−44°. NP2:ϕ_S190°,δ57°,λ−132°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c76; Mantle waves: s2,c3; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.56±.04; $M_{\theta\theta}$0.28±.06; $M_{\phi\phi}$1.28±.06; $M_{r\theta}$−0.47±.09; $M_{r\phi}$−0.15±.12; $M_{\theta\phi}$0.69±.05. Principal Axes: T 1.67,Plg6°,Azm118°; N 0.01,Plg12°,Azm210°; P −1.68,Plg76°,Azm2°. Best double couple: $M_0$1.7×10^{17}Nm, NP1:ϕ_S195°,δ40°,λ−109°. NP2:ϕ_S39°,δ53°,λ−74°.
EIDC IX 26 13 07 46.2 27.8S 179.8W 0 4.2b ¶97ix4009
EIDC IX 26 22 28 41.7 28.1S 179.4E 0 4.1b ¶97ix4161
ISC IX 27 07 22 52±1.5 **29.82S**±.056 **176.80W**±.068 **43**±13 **5.1b,5.3s 198 1-169**
EIDC IX 27 07 22 47.6 29.4S 176.8W 0 5.0b,4.5$_L$ **¶97ix4287**
NEIC IX 27 07 22 50.9 29.56S 176.91W 33 5.1b,5.4s
BJI IX 27 07 22 51.5 28.83S 176.22W 33 5.5b,5.5s
HRVD IX 27 07 22 53.5±.4 29.30S±.06 176.15W±.05 15
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c41; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.87±.49; $M_{\theta\theta}$0.03±.87; $M_{\phi\phi}$−6.90±.55; $M_{r\theta}$2.93±.92; $M_{r\phi}$6.92±.98; $M_{\theta\phi}$−0.10±.48. Principal Axes: T 10.4,Plg64°,Azm305°; N −0.5, Plg10°,Azm192°; P −9.9,Plg23°,Azm98°. Best double couple: $M_0$1.0×10^{17}Nm, NP1:ϕ_S168°, δ23°,λ63°. NP2:ϕ_S16°,δ69°,λ101°.
EIDC IX 28 02 07 24.7 29.7S 175.3W 0 3.9b ¶97ix4512
EIDC LO CONF Location
ISC IX 29 06 46 25±1.2 **28.78S**±.091 **177.74W**±.081 **79**±10 **4.6b 71 1-168**
EIDC IX 29 06 46 18.5 28.6S 177.6W 16 4.6b **¶97ix4891**
NEIC IX 29 06 46 19.8 28.70S 177.67W 33 4.8b
BJI IX 29 06 46 21.2 28.19S 176.93W 43 5.0b
WEL Felt I=IV MM Raoul Felt Island
NEIC X 01 22 58 28.1 31.16S 178.17W 50 4.2b 31-150
EIDC X 01 22 58 26.6 32.0S 177.7W 46 4.1b **¶97x0170**
NEIC Poor solution.
EIDC X 01 23 37 44.5 31.6S 179.0W 0 4.3b ¶97x0175
ISC X 02 00 46 44±4.3 **31.4S**±.40 **178.2W**±.27 **95**±58 **4.5b 40 2-166**
EIDC X 02 00 46 33.4 30.9S 178.3W 0 4.5b,3.8s **¶97x0181**
NEIC X 02 00 46 37.3 31.58S 177.95W 50 4.6b
NEIC Poor solution.
ISC X 02 15 04 44±2.0 **27.7S**±.31 **177.9W**±.24 **211**±20 **3.6b 14 2-146**
EIDC X 02 15 04 19.4 27.5S 177.4W 0 4.2b **¶97x0302**
NEIC X 02 15 04 53.4 27.92S 178.10W 300
NEIC Poor solution.
EIDC X 03 05 05 29.0 31.6S 178.9W 29 3.9b **¶97x0395**
ISC X 03 06 30 17±2.6 **29.9S**±.77 **176.6W**±.41 **33 4.1b 15 35-149**
EIDC X 03 06 30 18.9 30.1S 176.4W 38 4.0b **¶97x0408**
ISC X 07 03 44 00±3.6 **31.5S**±.18 **178.2W**±.12 **38**±37 **4.8b**,4.3s **52 2-164**
NEIC X 07 03 44 06.7 31.30S 178.26W 100 4.8b **¶97x1174**
EIDC X 07 03 44 07.5 31.3S 178.4W 89 4.4b,4.4s
NEIC Less reliable solution.
ISC X 07 13 34 53±7.1 **31.6S**±.56 **178W**±1.0 **47**±.9* **4.4b 19 2-150**
NEIC X 07 13 34 44.1 31.78S 177.13W 33 4.4b **¶97x1259**
EIDC X 07 13 34 53.2 31.5S 177.8W 47 4.2b
NEIC Poor solution.
EIDC LO CONF Depth
EIDC X 07 21 19 27.9 31.7S 178.0W 0 3.6b **¶97x1302**
EIDC X 08 03 27 33.8 30.3S 179.7W 59 3.3b,3.4s **¶97x1346**
ISC X 08 06 50 53.6±.60 **31.56S**±.098 **178.1W**±.11 **33 4.7b 51 2-159**
EIDC X 08 06 50 49.8 31.6S 177.9W 0 4.6b,4.7$_L$ **¶97x1362**
NEIC X 08 06 50 53.6 31.52S 178.06W 33 4.8b
NEIC Less reliable solution.
ISC X 08 10 47 49.4±.47 **29.15S**±.048 **178.35E**±.043 **607**±7.2 **5.5b 483 3-172**
BJI X 08 10 47 49.4 28.80S 178.75E 613 5.7b **¶97x1397**
NEIC X 08 10 47 49.9 29.25S 178.36E 617 5.5b
EIDC X 08 10 47 52.5 29.1S 178.3E 624 4.8b
HRVD X 08 10 47 54.1±.2 29.01S±.03 178.41E±.02 613±1.6
NEIC Mw5.7(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c74; Mantle waves: s5,c7; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.25±.05; $M_{\theta\theta}$−0.59±.09; $M_{\phi\phi}$1.84±.09; $M_{r\theta}$−0.58±.08; $M_{r\phi}$−2.57±.07; $M_{\theta\phi}$−1.68±.07. Principal Axes: T 3.65,Plg25°,Azm72°; N −0.26,Plg33°,Azm179°; P −3.39,Plg47°,Azm312°. Best double couple: $M_0$3.5×10^{17}Nm, NP1:ϕ_S116°,δ36°,λ−158°. NP2:ϕ_S7°,δ77°,λ−57°.
ISC X 08 10 55 19.9±.91 **31.0S**±.13 **178.7W**±.19 **48**±1.1* **4.4b 15 2-158**
EIDC X 08 10 55 14.6 31.5S 177.7W 45 4.3b **¶97x1398**
NEIC X 08 10 55 16.9 30.53S 178.24W 49
NEIC Poor solution.
EIDC X 08 19 10 04.6 31.4S 178.0W 0 3.7b **¶97x1457**
EIDC X 09 05 44 27.0 31.8S 178.2W 0 4.0b **¶97x1536**
ISC X 09 08 02 18±1.1 **28.86S**±.062 **178.61W**±.054 **210**±11 **5.2b 196 1-168**
BJI X 09 08 02 22.7 28.82S 177.75W 279 4.9b **¶97x1553**
NEIC X 09 08 02 24.8 28.83S 178.66W 278 5.4b
EIDC X 09 08 02 26.5 28.8S 178.6W 279 4.6b
HRVD X 09 08 02 30.9±.8 28.80S±.13 178.40W±.13 299±4.7
NEIC Mw5.1(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.50±.88; $M_{\theta\theta}$−3.34±1.33; $M_{\phi\phi}$−1.17±.87; $M_{r\theta}$0.74±1.00; $M_{r\phi}$1.03±.92; $M_{\theta\phi}$−4.20±1.23. Principal Axes: T 4.68,Plg80°,Azm270°; N 2.04,Plg8°,Azm51°; P −6.72,Plg6°,Azm142°. Best double couple: $M_0$5.7×10^{16}Nm, NP1: ϕ_S241°,δ39°,λ102°. NP2:ϕ_S45°,δ52°,λ80°.
ISC X 11 19 36 01±1.9 **31.5S**±.15 **178.5W**±.31 **33 4.4b 12 2-150**
NEIC X 11 19 35 56.4 31.39S 177.88W 33 4.9b **¶97x1928**
EIDC X 11 19 35 56.5 31.2S 178.3W 0 4.4b,4.6$_L$
NEIC Poor solution.
ISC X 14 01 12 51±3.9 **30.5S**±.55 **176.8W**±.61 **33 4.0b 13 17-151**
NEIC X 14 01 12 51.6 30.52S 176.83W 33 4.1b **¶97x2315**
EIDC X 14 01 12 53.3 28.7S 177.5W 0 4.1b
NEIC Poor solution.
EIDC X 14 21 02 59.9 30.0S 176.5W 0 3.7b **¶97x2493**
EIDC X 18 00 42 51.2 29.6S 179.1W 0 4.0b ¶97x3078
ISC X 19 10 56 18.0±.55 **27.1S**±.12 **178.2W**±.15 **200 3.9b 31 2-156**
EIDC X 19 10 56 27.4 27.1S 178.0W 273 3.8b **¶97x3334**
NEIC X 19 10 56 28.7 27.16S 178.33W 300 3.8b
NEIC Less reliable solution.
ISC X 20 14 43 21±3.3 **27.5S**±.22 **177.7W**±.18 **42**±31 **3.9b 15 2-153**
NEIC X 20 14 43 20.0 27.44S 177.70W 33 4.0b **¶97x3518**
EIDC X 20 14 43 38.2 28.1S 177.7W 192 3.4b
NEIC Less reliable solution.
EIDC X 21 04 26 33.1 28.7S 177.6W 0 3.8b ¶97x3603
EIDC X 23 21 07 52.3 31.6S 174.8W 0 3.5b ¶97x4065
EIDC LO CONF Location
EIDC X 26 09 50 22.0 29.4S 173.2W 0 3.7b ¶97x4447
EIDC LO CONF Location
ISC X 26 19 20 49±2.2 **27.2S**±.27 **177.7W**±.53 **33 4.0b 9 15-146**
EIDC X 26 19 20 44.0 27.2S 177.5W 0 4.1b **¶97x4515**
ISC X 27 09 33 01.2±.16 **31.09S**±.034 **178.40W**±.044 **52**±2.7* **5.4b,5.4s 434 2-173**
BJI X 27 09 32 58.7 30.79S 178.30W 32 5.4b,5.6s **¶97x4594**
NEIC X 27 09 32 59.5 30.76S 178.45W 33 5.5b,5.4s
MOS X 27 09 33 00.1 30.7S 178.3W 33 5.9b,5.5s
EIDC X 27 09 33 04.1 30.7S 178.2W 55 4.9b,5.4s
HRVD X 27 09 33 07.3±.1 30.81S±.01 178.04W±.01 46±1.0
NEIC Mw5.9(HRV).
NEIC Mo=7.9×10^{17}Nm (PPT).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c119; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}5.63±.07; $M_{\theta\theta}$0.95±.10; $M_{\phi\phi}$−6.58±.11; $M_{r\theta}$1.56±.11; $M_{r\phi}$4.46±.13; $M_{\theta\phi}$−1.83±.10. Principal Axes: T 7.22,Plg71°,Azm298°; N 1.34, Plg4°,Azm195°; P −8.56,Plg18°,Azm104°. Best double couple: $M_0$7.9×10^{17}Nm, NP1: ϕ_S187°,δ27°,λ81°. NP2:ϕ_S18°,δ63°,λ95°.
WEL Felt I=IV MM at Raoul Island
EIDC X 30 05 59 49.4 28.6S 178.0W 0 4.1b ¶97x5001
ISC X 31 05 42 20±3.3 **28.8S**±.30 **178.3W**±.23 **30**±27 **4.1b 13 1-152**
EIDC X 31 05 43 23.3 28.7S 179.9W 641 3.2b **¶97x5137**
EIDC XI 01 00 55 11.4 27.5S 177.5W 0 4.1b ¶97xi0005

Agency		Origin Time		ϕ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
ISC	**XI**	**01 19 10 47**±1.6		**30.6S**±.11	**179.7W**±.12	**322**±18	**4.2b**	**72**	**11-166**
NEIC	XI	01 19 10 48.0		30.73S	179.51W	350	4.3b		¶97xi0128
EIDC	XI	01 19 10 50.7		30.4S	179.6W	355	3.9b		
ISC	**XI**	**02 12 39 26**±1.6		**28.37S**±.081	**179.86W**±.066	**378**±18	**4.6b**	**114**	**13-168**
NEIC	XI	02 12 39 28.0		28.44S	179.88W	400	4.8b		¶97xi0261
EIDC	XI	02 12 39 33.6		28.3S	179.9W	442	4.1b		
EIDC	**XI**	**03 00 34 47.9**		**31.4S**	**176.8W**	**0**	**4.1b**		¶97xi0363
EIDC	**XI**	**04 11 47 45.6**		**31.9S**	**178.4W**	**0**	3.9b		¶97xi0626
ISC	**XI**	**08 15 58 38**±6.6		**29.7S**±.35	**179.3W**±.44	**299**±59	**3.9b**	**19**	**15-150**
EIDC	XI	08 15 57 59.1		29.1S	177.9W	0	4.4b		¶97xi1311
NEIC	XI	08 15 58 36.5		29.49S	179.07W	300	3.9b		
NEIC	Poor solution.								
EIDC	**XI**	**08 17 27 55.6**		**31.3S**	**177.2W**	**0**	**3.6b**		¶97xi1326
ISC	**XI**	**09 10 30 38**±4.0		**30.1S**±.41	**179.9W**±.59	**500**	**3.6b**	**11**	**15-150**
NEIC	XI	09 10 30 37.8		30.06S	179.96W	500			¶97xi1433
EIDC	XI	09 10 30 38.7		29.9S	180.0W	494	3.1b		
NEIC	Poor solution.								
NEIC	**XI**	**09 20 44 21.6**		**31.60S**	**178.49W**	**33**	**4.3b**		**34-150**
EIDC	XI	09 20 44 18.5		31.6S	178.5W	0	4.1b		¶97xi1508
NEIC	Poor solution.								
EIDC	**XI**	**11 19 57 58.1**		**30.4S**	**173.2W**	**0**	**3.6b**		¶97xi1862
EIDC	LO CONF Location								
EIDC	**XI**	**12 13 53 36.8**		**30.7S**	**170.0W**	**60**	**3.6b**		¶97xi1990
EIDC	**XI**	**14 05 17 49.2**		**31.0S**	**177.9W**	**0**	3.5b		¶97xi2245
EIDC	**XI**	**17 16 38 26.4**		**30.8S**	**179.7W**	**0**	3.5b		¶97xi2829
ISC	**XI**	**18 05 32 39**±1.0		**27.7S**±.22	**177.0W**±.16	**33**	**4.1b,4.3s**	**18**	**16-152**
EIDC	XI	18 05 32 34.0		27.4S	176.7W	0	4.0b,4.2s		¶97xi2914
BJI	XI	18 05 32 38.8		27.60S	176.80W	33	5.2b		
NEIC	XI	18 05 32 38.8		27.58S	176.88W	33	4.6b		
NEIC	Poor solution.								
EIDC	**XI**	**19 06 19 28.6**		**28.9S**	**174.0W**	**0**	**3.6b**		¶97xi3149
EIDC	LO CONF Location								
EIDC	**XI**	**24 03 43 38.3**		**31.1S**	**179.9W**	**0**	3.7b		¶97xi4257
EIDC	**XI**	**25 15 38 59.9**		**27.9S**	**178.1W**	**0**	**4.2b**		¶97xi4541
EIDC	**XI**	**27 20 14 20.0**		**31.7S**	**178.5W**	**0**	**3.6b**		¶97xi4928
ISC	**XI**	**28 17 40 50**±4.8		**31.3S**±.39	**179.6W**±.68	**400**	**4.1b**	**17**	**25-149**
EIDC	XI	28 17 40 05.9		31.2S	177.7W	38	4.5b,3.5s		¶97xi5120
NEIC	XI	28 17 40 48.9		31.29S	179.49W	400	4.0b		
NEIC	Poor solution.								
ISC	**XII**	**02 14 15 35.8**±.75		**28.7S**±.21	**177.4W**±.14	**33**	**4.4b**	**34**	**16-158**
NEIC	XII	02 14 15 34.7		28.88S	177.32W	33	4.5b		¶97xii0264
EIDC	XII	02 14 15 37.7±.60		28.8S	177.2W	40±3.0	4.1b		
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=32.1km semi−minor=14.7km azimuth=157								
ISC	**XII**	**09 03 55 31**±5.7		**28.3S**±.21	**177.9W**±.22	**255**±54	**3.6b**	**18**	**15-152**
EIDC	XII	09 03 55 19.0		28.1S	177.6W	129±135.4	3.7b		¶97xii2097
NEIC	XII	09 03 55 25.0		28.35S	177.66W	200	4.0b		
EIDC	Origin time error = 15.51Error ellipse is semi−major=42.2km semi−minor=37.2km azimuth=52								
NEIC	Poor solution.								
EIDC	**XII**	**10 10 48 42.4**		**31.3S**	**179.1W**	**0**	4.0b		**42-146**
									¶97xii2333
EIDC	Origin time error = 11.96Error ellipse is semi−major=538.6km semi−minor=49.8km azimuth=158								
ISC	**XII**	**14 12 20 48**±1.2		**32.0S**±.16	**179.4W**±.26	**478**±24	**3.5b**	**34**	**6-150**
NEIC	XII	14 12 20 46.0		31.62S	179.98E	400			¶97xii3144
EIDC	XII	14 12 20 48.1±8.39		31.3S	179.9E	396±75.4	3.2b		
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=82.9km semi−minor=26.9km azimuth=148								
ISC	**XII**	**14 12 21 30**±3.7		**31.1S**±.18	**179.0W**±.29	**105**±22	**4.7b**	**44**	**7-155**
EIDC	XII	14 12 21 35.3±4.28		30.6S	178.8W	163±33.9	4.4b		¶97xii3145
NEIC	XII	14 12 21 38.2		30.66S	178.92W	200	4.5b		
EIDC	Error ellipse is semi−major=31.6km semi−minor=25.2km azimuth=44								
NEIC	Less reliable solution.								
EIDC	**XII**	**18 02 34 39.1**±1.94		**31.5S**	**178.5W**	**0**	3.6b		**43-149**
									¶97xii3698
EIDC	Error ellipse is semi−major=90.6km semi−minor=48.5km azimuth=178								
NEIC	**XII**	**19 03 01 13.6**		**28.64S**	**178.45W**	**33**			**15-152**
EIDC	XII	19 03 01 17.9±.98		28.4S	178.4W	56±6.8	4.2b,3.2s		¶97xii3883
NEIC	Poor solution.								
EIDC	Error ellipse is semi−major=50.1km semi−minor=22.4km azimuth=166								
EIDC	**XII**	**20 07 37 46.5**±8.48		**30.8S**	**179.3W**	**0**	4.1b		**42-149**
									¶97xii4096
EIDC	Error ellipse is semi−major=520.9km semi−minor=50.9km azimuth=161								
EIDC	**XII**	**26 01 57 27.3**		**30.7S**	**178.9E**	**594**±386.9	**2.7b**		**32-149**
									¶97xii5026
EIDC	Origin time error = 39.49Error ellipse is semi−major=282.8km semi−minor=81.3km azimuth=97								
EIDC	**XII**	**29 10 57 04.9**±1.85		**31.4S**	**177.9W**	**0**	**4.2b**		**34-150**
									¶97xii5574
EIDC	Error ellipse is semi−major=76.0km semi−minor=39.7km azimuth=176								
ISC	**XII**	**29 11 50 04**±1.6		**27.6S**±.20	**178.8W**±.27	**400**	**3.7b**	**16**	**15-152**
EIDC	XII	29 11 50 02.7		27.4S	178.8W	377±141.3	3.5b		¶97xii5579
NEIC	XII	29 11 50 03.6		27.58S	178.75W	400	3.6b		
EIDC	Origin time error = 15.06Error ellipse is semi−major=70.2km semi−minor=25.7km azimuth=66								
NEIC	Less reliable solution.								
EIDC	**XII**	**29 22 44 47.1**±1.96		**31.9S**	**178.7W**	**0**	3.6b		**42-149**
									¶97xii5648
ISC	**XII**	**30 00 06 12**±2.4		**31.3S**±.12	**179.9E**±.34	**300**	**3.7b**	**42**	**6-150**
EIDC	XII	30 00 05 29.7±2.35		31.4S	178.0W	0	4.3b		¶97xii5660
NEIC	XII	30 00 05 55.3		30.39S	179.08W	200	4.0b		
EIDC	Error ellipse is semi−major=143.2km semi−minor=21.8km azimuth=165								
NEIC	Less reliable solution.								

(178) Kermadec Islands.

ISC	**VII**	**07 19 54 57**±1.3	**29.6S**±.17	**177.4W**±.19	**33**	**4.4b**	**25**	**1-154**
EIDC	VII	07 19 54 54.6	30.1S	177.4W	0	4.6b		¶97vii1084
NEIC	VII	07 19 54 57.8	29.71S	177.51W	33	4.5b		
NEIC	Poor solution.							
EIDC	**VII**	**19 15 02 55.2**	**29.9S**	**178.2W**	**0**	3.4b		**43-145**
								¶97vii2895
ISC	**VII**	**19 22 55 23**±3.6	**29.97S**±.075	**177.6W**±.12	**32**±25	**4.5b**,4.4s	**58**	**1-159**
EIDC	VII	19 22 55 18.3	30.0S	177.4W	0	4.5b,4.3s		¶97vii2968
BJI	VII	19 22 55 22.3	29.71S	177.28W	46			
NEIC	VII	19 22 55 22.6	29.91S	177.64W	33	4.8b		
NEIC	Less reliable solution.							
ISC	**VII**	**30 05 09 56**±1.2	**30.8S**±.17	**178.8W**±.20	**100**	**4.6b**	**16**	**2-150**
EIDC	VII	30 05 09 43.3	31.1S	178.4W	0	4.8b		¶97vii4535
NEIC	VII	30 05 10 18.6	31.08S	179.27W	300	4.1b		
NEIC	Poor solution.							
EIDC	**VIII**	**05 11 20 38.1**	**29.1S**	**178.2W**	**0**	**3.9b**		**9-148**
								¶97viii0659
EIDC	**VIII**	**07 13 09 57.9**	**30.4S**	**177.6W**	**0**	**3.9b**		**35-151**
								¶97viii0941
EIDC	**VIII**	**10 04 04 58.4**	**30.2S**	**177.1W**	**0**	**3.9b**,3.9s		**1-151**
								¶97viii1348
EIDC	**VIII**	**10 07 40 40.6**	**29.5S**	**178.4W**	**0**	**4.0b**		**33-144**
								¶97viii1369
EIDC	**VIII**	**11 07 31 42.2**	**30.4S**	**177.9W**	**59**	**3.3b**		**35-151**
								¶97viii1525
EIDC	**VIII**	**13 21 16 16.8**	**29.1S**	**177.1W**	**0**	**4.0b**		**36-152**
								¶97viii1958
ISC	**VIII**	**14 05 34 48**±1.1	**29.3S**±.22	**178.2W**±.16	**50**±13	**4.6b**	**30**	**0-158**
NEIC	VIII	14 05 35 20.5	29.54S	178.81W	350	4.1b		¶97viii2014
EIDC	VIII	14 05 35 21.6	29.8S	178.7W	361	3.8b		
WEL	Felt I=III MM Raoul Island							
NEIC	Less reliable solution.							
EIDC	**VIII**	**14 09 37 58.7**	**30.7S**	**177.4W**	**0**	**3.8b**		**34-151**
								¶97viii2039
EIDC	**VIII**	**15 09 49 54.3**	**29.6S**	**178.2W**	**0**	3.5b		**9-144**
								¶97viii2196
EIDC	**VIII**	**19 07 18 10.3**	**30.5S**	**177.9W**	**0**	**4.1b**		**35-150**
								¶97viii2772
EIDC	**VIII**	**24 09 06 54.0**	**30.7S**	**178.2W**	**0**	3.7b,3.3s		**8-150**
								¶97viii3505
ISC	**VIII**	**27 10 48 15**±1.1	**29.1S**±.10	**178.9W**±.14	**232**±9.2	**4.0b**	**40**	**1-158**
NEIC	VIII	27 10 48 12.6	28.39S	178.34W	257	4.1b		¶97viii3977
EIDC	VIII	27 10 48 12.9	28.3S	178.4W	239	3.7b		
NEIC	Less reliable solution.							
EIDC	**VIII**	**27 18 21 02.3**	**29.9S**	**177.7W**	**0**	**3.6b**,3.4s		**35-145**
								¶97viii4021
EIDC	**VIII**	**31 02 57 07.4**	**29.7S**	**178.1W**	**0**	**3.6b**		**35-44**
								¶97viii4575
EIDC	**VIII**	**31 09 48 23.7**	**29.4S**	**178.5W**	**0**	3.7b		**9-144**
								¶97viii4634
ISC	**VIII**	**31 10 59 56.8**±.27	**30.65S**±.056	**177.86W**±.062	**53**±1.8*	**4.9b,4.5s**	**162**	**1-170**
BJI	VIII	31 10 59 56.9	30.41S	177.98W	58	5.1b		¶97viii4639
NEIC	VIII	31 10 59 57.5	30.29S	177.99W	55	5.1b		
EIDC	VIII	31 10 59 59.0	30.2S	177.8W	52	4.4b		
WEL	Felt I=IV MM Raoul Island							
ISC	**VIII**	**31 11 09 29**±2.1	**30.4S**±.13	**177.8W**±.32	**33**	**4.6b**	**24**	**1-149**
EIDC	VIII	31 11 09 23.4	30.5S	177.4W	0	4.7b		¶97viii4641
NEIC	VIII	31 11 09 27.0	30.14S	177.56W	33	4.7b		
NEIC	Poor solution.							
EIDC	**IX**	**04 01 42 17.1**	**30.2S**	**177.7W**	**0**	**4.2b**		¶97ix0527
ISC	**IX**	**05 06 15 11**±1.2	**30.7S**±.13	**178.1W**±.22	**33**	**4.6b**	**15**	**1-150**
EIDC	IX	05 06 16 01.8	30.9S	179.5W	478	3.8b		¶97ix0703
EIDC	**IX**	**06 22 37 51.5**	**30.2S**	**178.7W**	**0**	3.7b		¶97ix0976
EIDC	**IX**	**14 03 03 19.9**	**29.7S**	**177.7W**	**24**	**3.5b**		¶97ix2063
ISC	**IX**	**18 00 10 55**±2.0	**30.2S**±.22	**178.4W**±.14	**80**±23	**4.2b**	**26**	**1-164**
NEIC	IX	18 00 10 55.6	30.15S	178.34W	85	4.6b		¶97ix2582
EIDC	IX	18 00 11 07.8	30.3S	178.5W	178	3.8b,3.6s		
NEIC	Less reliable solution.							
WEL	Felt I=IV MM Raoul Island							
EIDC	LO CONF Depth							
ISC	**IX**	**20 18 11 00.4**±.21	**29.06S**±.047	**177.59W**±.050	**67**±2.1*	**5.4b**	**367**	**0-171**
MOS	IX	20 18 10 56.9	28.7S	177.7W	33	5.9b		¶97ix2981
NEIC	IX	20 18 11 01.3	28.90S	177.65W	74	5.6b		
BJI	IX	20 18 11 01.7	28.01S	176.77W	76	5.6b,6.1s		
EIDC	IX	20 18 11 06.3	28.8S	177.7W	100	5.0b		
WEL	Felt I=IV MM Raoul Island							
ISC	**IX**	**22 21 53 27**±1.2	**30.8S**±.12	**177.9W**±.20	**33**	**4.4b**,3.8s	**21**	**2-160**
EIDC	IX	22 21 53 21.4	30.7S	177.6W	0	3.9s,4.5b		¶97ix3330
NEIC	IX	22 21 53 56.9	31.06S	178.60W	300	4.0b		
NEIC	Poor solution.							
EIDC	**IX**	**23 05 55 55.1**	**30.4S**	**178.8W**	**0**	4.3b		¶97ix3383
ISC	**IX**	**26 10 35 36**±3.7	**29.3S**±.12	**177.1W**±.16	**122**±33	**4.3b**	**25**	**14-148**
NEIC	IX	26 10 35 32.9	29.26S	177.03W	100	4.5b		¶97ix3950
BJI	IX	26 10 35 35.9	28.56S	177.02W	99			
EIDC	IX	26 10 35 36.0	29.3S	177.0W	116	4.1b,4.6L		
NEIC	Less reliable solution.							
ISC	**IX**	**26 12 30 32.5**±.44	**29.39S**±.099	**177.1W**±.12	**33**	**4.7b**	**37**	**14-159**
EIDC	IX	26 12 30 29.2	29.2S	177.0W	0	4.6b,4.4L		¶97ix3993
BJI	IX	26 12 30 32.2	29.40S	177.00W	33	5.3b		
NEIC	IX	26 12 30 32.2	29.36S	177.04W	33	4.9b		
NEIC	Less reliable solution.							
ISC	**IX**	**27 05 28 42**±1.6	**30.7S**±.13	**177.8W**±.26	**33**	**4.3b**	**12**	**1-149**
EIDC	IX	27 05 28 26.7	30.4S	176.1W	0	4.3b		¶97ix4259
NEIC	IX	27 05 28 39.3	30.44S	177.47W	33	4.4b		
NEIC	Poor solution.							
NEIC	**IX**	**29 10 34 05.6**	**30.55S**	**178.40W**	**33**	4.6b		**1-145**
EIDC	IX	29 10 34 10.2	31.3S	178.3W	58	3.8b		¶97ix4927
NEIC	Poor solution.							
ISC	**IX**	**30 04 26 33.2**±.36	**30.08S**±.075	**177.78W**±.073	**51**±2.0*	**4.8b,4.1s**	**102**	**1-166**
NEIC	IX	30 04 26 30.7	30.06S	177.73W	33	4.9b		¶97ix5125
EIDC	IX	30 04 26 34.5	30.1S	177.7W	54	4.5b,4.1s		
WEL	Felt I=IV MM Raoul Island							
NEIC	Less reliable solution.							
ISC	**X**	**02 01 53 09**±2.1	**31.0S**±.21	**177.7W**±.17	**125**±21	**4.5b**	**40**	**2-155**
EIDC	X	02 01 52 54.9	32.0S	177.4W	0	4.5b,4.1s		¶97x0188
NEIC	X	02 01 52 57.0	31.56S	177.26W	33	4.7b		
NEIC	Poor solution.							
EIDC	**X**	**02 02 32 40.8**	**29.9S**	**178.3W**	**0**	**4.0b**		¶97x0194
EIDC	**X**	**02 04 24 29.0**	**29.5S**	**177.1W**	**0**	**3.9b**		¶97x0203
ISC	**X**	**03 06 24 48**±3.6	**30.6S**±.45	**178.8W**±.50	**33**	**4.4b**	**15**	**30-149**
EIDC	X	03 06 24 39.9	30.8S	178.0W	0	4.6b		¶97x0406
EIDC	**X**	**08 00 07 18.7**	**30.3S**	**177.4W**	**0**	**4.1b**		¶97x1328
ISC	**X**	**08 07 50 36**±5.3	**30.6S**±.72	**178.5W**±.76	**33**	**4.1b**	**10**	**1-145**
EIDC	X	08 07 50 31.1	30.7S	178.3W	0	4.0b		¶97x1370
NEIC	X	08 07 50 34.0	30.47S	178.32W	33	4.2b		
NEIC	Poor solution.							
EIDC	**X**	**10 17 36 11.2**	**30.0S**	**178.6W**	**0**	3.6b		¶97x1783
ISC	**X**	**10 20 51 34**±5.0	**30.3S**±.87	**178.8W**±.71	**33**	**4.2b**	**7**	**1-145**
EIDC	X	10 20 51 27.4	30.3S	178.2W	0	4.3b		¶97x1799
ISC	**X**	**11 00 53 13.6**±.64	**30.4S**±.10	**177.2W**±.12	**33**	**4.4b,4.5s**	**34**	**1-161**
EIDC	X	11 00 53 17.5	30.2S	177.1W	53	4.2b,4.4s		¶97x1820
NEIC	X	11 00 53 21.2	30.40S	177.21W	100	4.4b		
BJI	X	11 00 53 24.2	30.40S	177.20W	100	4.7b		

NEIC Less reliable solution.
EIDC X 12 16 10 52.9 30.5S 178.4W 0 3.9b ¶97x2069
EIDC X 15 11 46 36.1 29.6S 177.5W 0 3.7b ¶97x2621
ISC X 15 20 33 38±4.0 **31.0S**±.34 **177.9W**±.70 **514**±44 **12 7-93 ¶97x2712**
ISC X 15 21 45 07±2.5 **30.2S**±.83 **177.8W**±.35 **33 4.2b 15 26-156**
EIDC X 15 21 45 04.4 30.5S 177.7W 0 4.3b **¶97x2730**
NEIC X 15 21 45 07.8 30.43S 177.82W 33 4.2b
NEIC Poor solution.
EIDC X 22 06 49 29.9 30.8S 177.9W 0 4.1b ¶97x3763
EIDC X 25 17 30 20.9 30.2S 177.7W 0 4.3b ¶97x4348
EIDC X 27 01 38 57.5 29.2S 177.5W 0 4.0b ¶97x4552
EIDC XI 03 08 41 09.2 30.1S 178.1W 0 3.9b ¶97xi0440
ISC XI 03 09 50 32±4.2 **29.61S**±.088 **177.73W**±.099 **25**±30 **4.7b,3.9s 46 13-169**
EIDC XI 03 09 50 29.3 29.6S 177.6W 0 4.6b,3.9s **¶97xi0448**
NEIC XI 03 09 50 33.0 29.60S 177.74W 33 4.9b
NEIC Less reliable solution.
EIDC XI 08 00 17 26.7 29.9S 177.6W 0 3.8b ¶97xi1190
EIDC XI 08 19 27 57.9 30.3S 177.6W 0 4.2b ¶97xi1338
ISC XI 18 15 41 28±3.3 **29.20S**±.058 **177.54W**±.057 **38**±28 **5.7b,5.5s 409 16-168**
EIDC XI 18 15 41 23.3 29.2S 177.3W 0 5.4b,5.6L **¶97xi3000**
MOS XI 18 15 41 28.8 29.0S 177.5W 44 6.0b
NEIC XI 18 15 41 29.5 29.06S 177.65W 52 5.7b,5.5s
BJI XI 18 15 41 30.3 28.92S 177.28W 59 5.7b,5.6s
HRVD XI 18 15 41 32.5±.4 29.10S±.05 177.20W±.06 33±4.8
NEIC Mw5.8(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c38; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}4.94±.26; $M_{\theta\theta}$−1.47±.46; $M_{\phi\phi}$−3.47±.35; $M_{r\theta}$0.30±.68; $M_{r\phi}$3.85±.77; $M_{\theta\phi}$−0.91±.27. Principal Axes: T 6.44,Plg69°,Azm269°; N −1.22, Plg5°,Azm13°; P −5.21,Plg20°,Azm105°. Best double couple: $M_0$5.8×10^{17}Nm, NP1:ϕ_S205°, δ25°,λ103°. NP2:ϕ_S11°,δ66°,λ84°.
EIDC XI 19 03 57 46.5 30.3S 177.9W 0 3.9b ¶97xi3132
EIDC XI 19 17 57 47.4 30.7S 177.8W 0 4.2b ¶97xi3280
EIDC XI 22 13 31 02.1 31.0S 178.0W 0 3.9b **¶97xi3884**
EIDC LO CONF Depth
EIDC XI 23 14 50 28.5 30.1S 177.4W 0 3.7b ¶97xi4135
EIDC XI 26 02 37 48.8 30.4S 177.4W 0 3.6b **¶97xi4614**
ISC XI 27 07 21 02±1.5 **29.69S**±.063 **178.93W**±.051 **129**±14 **5.1b 296 12-169**
BJI XI 27 07 21 12.9 29.28S 178.30W 229 5.2b **¶97xi4824**
NEIC XI 27 07 21 13.2 29.76S 179.01W 229 5.1b
MOS XI 27 07 21 14.4 29.7S 178.6W 237 5.6b
EIDC XI 27 07 21 15.3 29.6S 178.9W 234 4.7b
HRVD XI 27 07 21 15.8±.6 29.60S±.07 178.81W±.05 230±3.4
NEIC Mw5.4(GS), Mw5.4(HRV).
NEIC Moment tensor solution: s3, scale 10^{17}Nm; M_{rr}−1.15; $M_{\theta\theta}$0.23; $M_{\phi\phi}$0.92; $M_{r\theta}$−0.56; $M_{r\phi}$−0.09; $M_{\theta\phi}$0.33. Depth 220km; Principal axes: T 1.09,Plg8°,Azm116°; N 0.26,Plg18°, Azm209°; P −1.35,Plg70°,Azm2°. Best double couple: $M_0$1.2×10^{17}Nm; NP1:ϕ_S186°,δ40°, λ−118°. NP2:ϕ_S41°,δ56°,λ−68°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c30; Mantle waves: s6,c6; Half duration: 1s0. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.96±.06; $M_{\theta\theta}$−0.07±.12; $M_{\phi\phi}$1.03±.09; $M_{r\theta}$−0.69±.08; $M_{r\theta}$0.06±.10; $M_{\theta\phi}$−0.08±.10. Principal Axes: T 1.04,Plg4°,Azm263°; N 0.29,Plg28°,Azm171°; P −1.33,Plg61°,Azm1°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S20°,δ48°,λ−50°. NP2:ϕ_S149°,δ55°,λ−125°.
EIDC XI 28 02 09 20.2 30.6S 177.4W 0 4.6b ¶97xi4995
ISC XI 28 12 10 52±5.6 **29.9S**±.18 **178.3W**±.17 **129**±49 **4.2b 33 16-156**
NEIC XI 28 12 10 48.8 29.98S 178.10W 106 4.6b **¶97xi5081**
EIDC XI 28 12 10 49.4 29.8S 178.1W 98 4.1b,3.5s
NEIC Less reliable solution.
ISC XII 04 02 14 45±2.0 **29.3S**±.37 **178.0W**±.31 **250 3.8b 15 16-151**
EIDC XII 04 02 14 14.9±1.12 28.8S 177.4W 0 4.2b,3.4s **¶97xii0534**
NEIC XII 04 02 14 18.6 28.87S 177.49W 33 4.3b
EIDC Error ellipse is semi−major=39.7km semi−minor=30.0km azimuth=25
NEIC Poor solution.
ISC XII 07 11 13 45.3±.54 **30.18S**±.090 **177.8W**±.10 **33 4.6b 63 8-165**
EIDC XII 07 11 14 03.9 30.0S 178.0W 185±96.5 4.0b **¶97xii1683**
NEIC XII 07 11 14 04.0 30.08S 178.03W 200 4.6b
EIDC Origin time error = 10.88Error ellipse is semi−major=31.8km semi−minor=24.6km azimuth=56
NEIC Less reliable solution.
ISC XII 12 22 47 52.6±.59 **30.85S**±.079 **177.3W**±.12 **33 4.9b,**3.7s **55 12-160**
NEIC XII 12 22 47 52.3 30.62S 177.31W 33 4.9b **¶97xii2838**
EIDC XII 12 22 47 53.1±1.07 30.6S 177.1W 32±3.5 4.8b,4.1s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=48.8km semi−minor=18.6km azimuth=152
EIDC XII 13 05 35 51.8±6.51 **30.8S 177.4W 0 3.8b 35-146 ¶97xii2893**
EIDC Error ellipse is semi−major=276.0km semi−minor=47.1km azimuth=153
ISC XII 14 20 46 05±1.6 **30.5S**±.27 **177.9W**±.23 **33 4.5b 18 16-151**
EIDC XII 14 20 45 59.7±1.08 30.2S 177.6W 0 4.6b **¶97xii3192**
NEIC XII 14 20 46 04.0 30.33S 177.80W 33 4.6b
EIDC Error ellipse is semi−major=46.8km semi−minor=26.3km azimuth=5
NEIC Poor solution.
NEIC XII 15 01 01 44.8 30.82S 177.16W 33 4.7b **17-151**
EIDC XII 15 01 01 48.1±.98 30.5S 177.2W 36±4.6 4.1b **¶97xii3216**
NEIC Poor solution.
EIDC Error ellipse is semi−major=69.9km semi−minor=19.9km azimuth=167
NEIC XII 23 18 00 06.6 30.01S 177.37W 33 3.6b **35-151**
EIDC XII 23 18 00 03.4±1.91 29.9S 177.3W 0 3.8b **¶97xii4635**
NEIC Poor solution.
EIDC Error ellipse is semi−major=68.1km semi−minor=43.4km azimuth=165
EIDC XII 27 15 17 28.1±1.88 **30.2S 177.6W 0 3.9b 35-151 ¶97xii5310**
EIDC Error ellipse is semi−major=83.6km semi−minor=41.3km azimuth=166

(179) South of Kermadec Islands.

ISC VII 01 15 53 08±4.4 **33.0S**±.31 **179.4E**±.67 **200 3.3b 4 9-45**
EIDC VII 01 15 53 14.2 33.2S 178.9E 223 3.2b **¶97vii0113**
ISC Poorly determined
ISC VII 02 06 59 38±2.1 **33.9S**±.10 **179.5W**±.14 **66**±17 **4.6b 57 4-173**
NEIC VII 02 06 59 34.1 34.00S 179.51W 33 4.7b **¶97vii0195**
BJI VII 02 06 59 35.2 33.92S 179.18W 53 5.1b
EIDC VII 02 06 59 37.1 34.0S 179.4W 50 4.3b,4.4s
NEIC Less reliable solution.
EIDC VII 03 15 45 49.7 33.9S 179.0W 45 3.3b **4-152 ¶97vii0425**
EIDC VII 04 23 05 40.2 33.2S 178.8W 0 3.6b **42-152 ¶97vii0633**
EIDC VII 05 18 58 22.5 32.1S 177.9W 0 3.8b 34-149 ¶97vii0771
ISC VII 06 06 38 23±1.5 **33.5S**±.12 **178.6E**±.28 **615**±13 **4.3b 48 4-151**
NEIC VII 06 06 38 25.8 33.45S 177.97E 600 4.4b **¶97vii0850**
EIDC VII 06 06 38 28.8 33.1S 178.0E 629 3.6b
NEIC Poor solution.
ISC VII 10 20 43 12±8.2 **33.5S**±.40 **178.5W**±.68 **154**±44 **4.2b 26 5-152**
NEIC VII 10 20 43 04.3 33.02S 179.05W 33 4.4b **¶97vii1567**
EIDC VII 10 20 43 09.1 33.2S 179.1W 72 4.4b
NEIC Poor solution.
EIDC VII 14 08 01 38.1 32.5S 178.5W 0 3.5b **43-149 ¶97vii2085**
EIDC VII 18 12 38 00.7 32.1S 178.4W 0 4.0b 6-151 ¶97vii2741
EIDC VII 21 04 46 09.2 32.2S 178.1W 0 3.7b **43-151 ¶97vii3194**
EIDC VII 21 05 28 20.1 32.2S 178.2W 0 3.5b **43-149 ¶97vii3200**
ISC VII 26 18 26 42±4.6 **33.4S**±.28 **178.7E**±.66 **250** 3.2b **9 4-42 ¶97vii3991**
EIDC VII 28 15 52 21.5 32.9S 178.4W 0 3.8b **43-148 ¶97vii4298**
EIDC VII 28 16 14 26.7 34.1S 179.0E 319 2.8b **37-146 ¶97vii4300**
ISC VII 29 07 08 12±6.7 **32.3S**±.95 **178.1W**±.97 **33 4.0b 8 34-149**
EIDC VII 29 07 08 06.6 32.2S 177.9W 0 4.0b **¶97vii4397**
EIDC VII 31 10 47 43.0 33.4S 178.4W 28 3.9b 34-149 ¶97vii4716
EIDC VIII 02 15 51 54.1 33.9S 177.4W 0 3.9b 34-153 ¶97viii0233
EIDC VIII 04 08 10 32.9 32.5S 178.2W 0 3.5b **43-149 ¶97viii0475**
ISC VIII 05 01 22 31.9±.98 **32.39S**±.071 **179.1W**±.17 **33 4.8b 32 3-161**
EIDC VIII 05 01 22 24.8 32.3S 178.4W 0 4.8b **¶97viii0592**
NEIC VIII 05 01 22 30.7 32.07S 178.92W 33 4.8b
NEIC Poor solution.
EIDC VIII 08 16 38 47.0 33.2S 172.0W 0 3.4b **48-150 ¶97viii1135**
ISC VIII 12 06 00 32±5.3 **34.4S**±.13 **179.3W**±.75 **33 3.7b 10 4-148**
EIDC VIII 12 06 00 29.7 34.5S 179.4W 0 3.8b **¶97viii1685**
ISC VIII 12 20 09 25±2.5 **34.7S**±.13 **179.8W**±.20 **76**±17 **4.5b 53 3-174**
EIDC VIII 12 20 09 24.4 34.3S 179.5W 61 4.1b **¶97viii1800**
NEIC VIII 12 20 09 24.5 34.87S 179.91W 64 4.7b
NEIC Less reliable solution.
ISC VIII 12 20 13 05±2.6 **34.6S**±.13 **179.8W**±.19 **59**±18 **4.5b,4.2s 51 3-174**
NEIC VIII 12 20 13 05.1 34.53S 179.84W 58 4.7b **¶97viii1801**
EIDC VIII 12 20 13 05.2 34.4S 179.6W 57 4.1b,4.3s
NEIC Poor solution.
ISC VIII 14 21 43 54±2.2 **34.9S**±.12 **179.9E**±.31 **33 4.2b 21 3-153**
NEIC VIII 14 21 43 54.7 35.17S 179.72E 33 4.3b **¶97viii2115**
EIDC VIII 14 21 43 58.8 35.6S 179.8W 90 3.9b,4.0L
NEIC Poor solution.
EIDC VIII 17 07 08 45.7 32.2S 178.7W 0 3.8b **7-151 ¶97viii2506**
EIDC VIII 17 17 24 54.8 34.1S 179.7W 0 3.8b **4-152**
NEIC VIII 17 17 25 00.0 34.53S 179.90E 33 3.6b **¶97viii2566**
NEIC Poor solution.
ISC VIII 18 11 32 34±5.2 **34.9S**±.15 **179.5W**±.73 **33 3.9b 9 4-149**
EIDC VIII 18 11 32 29.7 34.9S 179.3W 0 4.0b **¶97viii2670**
EIDC VIII 21 03 18 40.0 34.2S 178.9W 39 4.1b **39-150 ¶97viii3046**
ISC VIII 21 04 43 19±1.7 **34.7S**±.14 **179.4E**±.26 **38 4.1b 9 3-148**
EIDC VIII 21 04 43 15.2 32.4S 179.5W 38 4.1b **¶97viii3053**
EIDC VIII 21 05 16 41.8 34.2S 178.9W 36 4.0b **42-148 ¶97viii3057**
ISC VIII 22 03 55 46.9±.95 **32.39S**±.084 **178.8W**±.18 **33 4.6b 21 3-151**
EIDC VIII 22 03 55 42.4 32.1S 178.7W 0 4.6b **¶97viii3176**
ISC VIII 26 08 58 32±1.8 **33.88S**±.088 **179.4W**±.12 **67**±15 **4.5b 61 4-161**
NEIC VIII 26 08 58 27.1 33.74S 179.17W 33 4.8b **¶97viii3821**
EIDC VIII 26 08 58 28.1 33.5S 179.3W 32 4.2b,4.6s
NEIC Less reliable solution.
EIDC VIII 29 17 58 56.2 33.5S 179.5W 0 3.6b 33-147 ¶97viii4358
NEIC IX 01 04 39 09.0 32.24S 178.27W 33 4.2b 3-151
EIDC IX 01 04 39 18.7 30.8S 179.0W 67 4.0b **¶97ix0043**
NEIC Poor solution.
NEIC IX 01 18 06 53.3 33.66S 178.50W 33 4.1b 5-152
EIDC IX 01 18 06 48.9 33.6S 178.3W 0 4.3b **¶97ix0149**
NEIC Poor solution.
EIDC IX 06 08 27 09.6 32.2S 171.7W 0 3.9b ¶97ix0887
NEIC IX 09 14 55 22.4 34.97S 178.60W 33 4.2b 4-153
EIDC IX 09 14 55 20.5 34.8S 178.7W 0 4.3b,3.6s **¶97ix1396**
NEIC Less reliable solution.
NEIC IX 09 17 51 51.2 34.69S 179.47W 33 3.8b **4-153**
EIDC IX 09 17 51 45.9 34.4S 179.1W 0 3.8b **¶97ix1421**
NEIC Poor solution.
EIDC IX 15 07 23 13.4 34.7S 178.3W 33 3.6b **¶97ix2209**
NEIC IX 15 07 30 46.8 33.89S 178.71W 33 4.1b **4-153**
EIDC IX 15 07 30 47.6 33.7S 178.3W 46 4.0b **¶97ix2210**
NEIC Poor solution.
ISC IX 18 15 03 44±5.9 **32.1S**±.25 **178.2W**±.85 **500 3.7b 27 6-151**
EIDC IX 18 15 03 05.0 30.1S 179.2W 0 4.1b **¶97ix2678**
ISC IX 25 23 51 21±2.9 **32.9S**±.16 **178.0E**±.43 **300 4.0b 23 5-146**
EIDC IX 25 23 50 33.6 32.3S 179.0W 0 4.5b **¶97ix3806**
EIDC IX 26 22 29 10.3 33.7S 178.4W 66 4.1b ¶97ix4162
EIDC IX 29 18 32 57.5 32.1S 178.8W 0 4.2b **¶97ix5004**
EIDC IX 29 19 03 11.2 33.1S 178.5W 0 3.8b **¶97ix5006**
EIDC IX 29 19 35 51.7 33.1S 178.5W 0 3.5b **¶97ix5009**
ISC IX 29 20 11 33±1.1 **34.06S**±.073 **179.6E**±.13 **49**±11 **4.4b,**5.2s **43 4-152**
EIDC IX 29 20 11 23.3 33.5S 179.8W 0 4.4b **¶97ix5012**
NEIC IX 29 20 11 53.9 33.45S 179.97E 300 4.1b
NEIC Poor solution.
EIDC X 02 10 26 11.9 32.5S 179.3W 0 4.0b **¶97x0259**
EIDC X 03 07 40 46.3 32.1S 178.9W 0 4.0b ¶97x0417
ISC X 03 18 15 04±1.5 **33.65S**±.088 **179.1W**±.24 **62**±16 **4.4b 28 4-152**
EIDC X 03 18 14 53.0 33.2S 178.2W 0 4.4b **¶97x0503**
NEIC X 03 18 14 58.1 33.33S 178.60W 33 4.4b
NEIC Poor solution.
EIDC X 03 20 14 46.0 33.1S 178.5W 0 4.0b **¶97x0520**
EIDC X 03 20 36 00.7 33.2S 178.4W 0 3.9b **¶97x0522**
EIDC X 04 23 07 22.7 34.8S 179.3W 0 3.9b **¶97x0756**
EIDC LO CONF Location

Agency		mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
EIDC	**X**	**06**	**18 11 35.6**	**32.2S**	**177.6W**	**47**	**3.7b**		**¶97x1093**
ISC	**X**	**07**	**13 15 53.0**±.26	**32.08S**±.038	**178.32W**±.059	**35**±3.8*	**5.3b,5.5s**	**310**	**3-174**
EIDC	X	07	13 15 49.6	31.7S	177.9W	0	5.0b,4.9L		**¶97x1255**
BJI	X	07	13 15 52.7	31.51S	177.80W	39	5.5b,5.5s		
NEIC	X	07	13 15 53.3	31.85S	178.32W	33	5.5b,5.6s		
MOS	X	07	13 15 53.7	31.6S	178.1W	33	6.2b,5.6s		
HRVD	X	07	13 15 56.8±.1	31.58S±.02	177.71W±.02	21±1.0			
NEIC	Mw5.9(HRV).								
NEIC	Mo=1.1×10^{18}Nm (PPT).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s48,c113; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}5.13±.07; $M_{\theta\theta}$0.64±.09; $M_{\phi\phi}$−5.77±.10; $M_{r\theta}$1.52±.17; $M_{r\phi}$3.26±.25; $M_{\theta\phi}$−1.56±.08. Principal Axes: T 6.24,Plg72°,Azm310°; N 0.91, Plg7°,Azm197°; P −7.14,Plg16°,Azm104°. Best double couple: $M_0$6.7×10^{17}Nm, NP1: ϕ_S184°,δ30°,λ75°. NP2:ϕ_S20°,δ61°,λ98°.								
EIDC	**X**	**07**	**13 23 45.9**	**32.8S**	**177.6W**	**44**	**3.9b**		**¶97x1256**
EIDC	**X**	**07**	**13 39 32.2**	**32.2S**	**178.3W**	**51**	**3.6b**		**¶97x1261**
NEIC	X	07	13 39 25.4	32.35S	177.87W	33	3.9b		
NEIC	Poor solution.								
EIDC	**X**	**07**	**14 52 33.0**	**33.0S**	**178.6W**	**0**	**3.9b**		**¶97x1266**
ISC	**X**	**07**	**20 14 57**±1.6	**32.2S**±.24	**178.3W**±.22	**33**	**4.2b**	**19**	**7-151**
EIDC	X	07	20 14 51.2	31.5S	178.0W	0	4.2b		**¶97x1296**
NEIC	X	07	20 14 55.8	31.71S	178.18W	33	4.3b		
NEIC	Poor solution.								
NEIC	**X**	**08**	**10 56 27.3**	**32.08S**	**177.87W**	**46**			**34-149**
EIDC	X	08	10 56 30.5	31.7S	178.0W	46	4.2b		**¶97x1399**
NEIC	Poor solution.								
EIDC	**X**	**09**	**06 04 22.5**	**33.9S**	**178.0W**	**0**	**4.3b**		**¶97x1537**
EIDC	**X**	**10**	**16 39 46.5**	**32.2S**	**177.9W**	**0**	3.6b		**¶97x1772**
EIDC	**X**	**10**	**22 00 43.2**	**33.2S**	**179.0W**	**0**	**3.5b**		**¶97x1805**
ISC	**X**	**22**	**16 49 49**±1.0	**33.5S**±.14	**177.0W**±.17	**33**	**4.2b,**3.8s	**23**	**4-150**
EIDC	X	22	16 49 44.9	33.4S	176.9W	0	4.1b,3.8s		**¶97x3851**
NEIC	X	22	16 49 48.8	33.31S	176.78W	33	4.5b		
NEIC	Poor solution.								
EIDC	**X**	**27**	**17 10 19.1**	**32.4S**	**178.2W**	**0**	3.6b		**¶97x4636**
ISC	**X**	**28**	**04 54 16**±2.0	**34.9S**±.13	**179.7W**±.32	**33**	**3.6b**	**12**	**3-151**
EIDC	X	28	04 54 11.4	35.0S	179.3W	0	3.7b		**¶97x4713**
NEIC	X	28	04 54 15.1	34.76S	179.49W	33	3.6b		
WEL	X	28	04 54 17.9	34.53S	177.22E	33	5.3L		
NEIC	Poor solution.								
ISC	**X**	**30**	**04 09 02**±3.5	**32.7S**±.15	**179.4W**±.54	**33**	**4.3b**	**18**	**4-151**
EIDC	X	30	04 08 53.3	32.2S	178.5W	0	4.4b		**¶97x4988**
NEIC	X	30	04 08 54.9	32.01S	178.38W	33	4.5b		
NEIC	Poor solution.								
ISC	**X**	**30**	**13 01 06**±1.3	**32.31S**±.091	**179.6W**±.24	**54**±20	**4.4b**	**24**	**3-151**
EIDC	X	30	13 01 30.3	31.8S	179.3W	303	3.7b		**¶97x5041**
NEIC	X	30	13 01 40.6	31.98S	179.95W	400	4.0b		
EIDC	LO CONF Depth								
NEIC	Less reliable solution.								
NEIC	**XI**	**03**	**22 16 07.5**	**32.25S**	**178.84W**	**250**	**4.1b**		**10-154**
EIDC	XI	03	22 16 45.8	31.7S	178.9E	509	3.4b		**¶97xi0526**
NEIC	Less reliable solution.								
EIDC	**XI**	**04**	**11 39 00.2**	**33.8S**	**179.1W**	**0**	3.9b		**¶97xi0625**
EIDC	**XI**	**04**	**13 14 05.6**	**32.3S**	**178.6W**	**0**	3.7b		**¶97xi0642**
EIDC	**XI**	**06**	**23 09 45.7**	**35.0S**	**177.2W**	**0**	3.8b		**¶97xi1049**
EIDC	**XI**	**11**	**17 13 07.6**	**33.7S**	**177.6W**	**0**	**3.5b**		**¶97xi1831**
EIDC	LO CONF Location								
EIDC	**XI**	**14**	**00 47 23.5**	**32.7S**	**179.2W**	**0**	3.6b		**¶97xi2214**
EIDC	**XI**	**17**	**23 26 10.9**	**32.6S**	**171.5W**	**0**	**4.2b**		**¶97xi2875**
EIDC	**XI**	**19**	**03 40 40.3**	**34.2S**	**178.8W**	**0**	**3.8b**		**¶97xi3129**
NEIC	**XI**	**27**	**05 22 39.7**	**34.58S**	**179.35E**	**200**	**3.9b**		**5-153**
EIDC	XI	27	05 22 14.6	34.0S	179.8W	0	4.1b		**¶97xi4802**
NEIC	Less reliable solution.								
EIDC	**XI**	**28**	**05 33 13.2**	**33.9S**	**179.3W**	**0**	3.8b		**¶97xi5019**
ISC	**XII**	**03**	**02 38 29**±2.6	**34.3S**±.15	**178.9E**±.27	**157**±17	**4.2b**	**31**	**3-155**
EIDC	XII	03	02 38 24.9±1.73	33.9S	179.8E	160±9.3	3.9b		**¶97xii0353**
NEIC	XII	03	02 38 25.1	33.80S	179.60E	159	4.2b		
EIDC	Error ellipse is semi−major=63.6km semi−minor=33.3km azimuth=8								
NEIC	Poor solution.								
ISC	**XII**	**05**	**00 51 30**±2.2	**32.4S**±.11	**177.5W**±.19	**53**±21	**4.4b**	**22**	**6-162**
EIDC	XII	05	00 51 25.4±1.19	32.5S	177.7W	0	4.3b,4.7L		**¶97xii0745**
NEIC	XII	05	00 51 27.5	32.44S	177.51W	33	4.6b		
EIDC	Error ellipse is semi−major=32.5km semi−minor=22.0km azimuth=134								
NEIC	Less reliable solution.								
EIDC	**XII**	**10**	**18 48 43.6**±1.85	**33.1S**	**179.1W**	**0**	**4.4b**		**5-148**
EIDC	Error ellipse is semi−major=74.8km semi−minor=40.0km azimuth=2								**¶97xii2407**
EIDC	**XII**	**12**	**08 10 11.3**±1.92	**32.3S**	**178.6W**	**0**	3.8b		**43-149**
									¶97xii2716
EIDC	**XII**	**16**	**09 35 45.0**	**34.6S**	**177.3W**	**0**	**3.9b**		**34-45**
									¶97xii3427
EIDC	Origin time error = 90.45Error ellipse is semi−major=1689.2km semi−minor=221.2km azimuth=108LO CONF LocationMultiple, mixed az								
NEIC	**XII**	**19**	**17 01 27.7**	**33.92S**	**179.37W**	**33**	4.0b		**42-152**
EIDC	XII	19	17 01 44.6	33.9S	179.6W	171±165.0	3.6b		**¶97xii3997**
NEIC	Poor solution.								
EIDC	Origin time error = 19.25Error ellipse is semi−major=87.1km semi−minor=38.8km azimuth=38								
ISC	**XII**	**22**	**19 26 29**±1.4	**34.3S**±.11	**179.6W**±.21	**33**	**4.2b**	**32**	**4-162**
EIDC	XII	22	19 26 23.9±.98	34.4S	179.3W	0	4.3b		**¶97xii4476**
NEIC	XII	22	19 26 28.4	34.43S	179.61W	33	4.1b		
EIDC	Error ellipse is semi−major=36.6km semi−minor=27.0km azimuth=11								
NEIC	Poor solution.								
ISC	**XII**	**22**	**22 51 37**±6.9	**32.2S**±.43	**177.6W**±.31	**138**±52	**4.7b**	**36**	**6-151**
NEIC	XII	22	22 51 30.9	31.62S	177.34W	100	4.8b		**¶97xii4497**
EIDC	XII	22	22 51 37.6±.90	33.3S	178.0W	115±6.8	4.6b		
NEIC	Poor solution.								
EIDC	Error ellipse is semi−major=31.3km semi−minor=21.4km azimuth=5								
EIDC	**XII**	**23**	**12 00 13.9**±1.94	**34.0S**	**178.9W**	**0**	3.6b		**42-148**
EIDC	Error ellipse is semi−major=91.4km semi−minor=47.8km azimuth=6								**¶97xii4596**
ISC	**XII**	**24**	**00 05 38**±2.1	**34.2S**±.15	**178.1W**±.25	**60**±22	**4.3b**	**29**	**4-163**
NEIC	XII	24	00 05 34.8	34.26S	178.06W	33	4.4b		**¶97xii4673**
EIDC	XII	24	00 05 36.0±1.36	33.8S	178.7W	0	4.3b,3.9s		
NEIC	Poor solution.								
EIDC	Error ellipse is semi−major=44.4km semi−minor=21.6km azimuth=153								
EIDC	**XII**	**24**	**04 50 11.8**±1.10	**33.7S**	**178.7W**	**37**±5.5	**4.0b**		**5-155**
									¶97xii4707
EIDC	Error ellipse is semi−major=53.5km semi−minor=28.3km azimuth=176								
EIDC	**XII**	**24**	**05 38 44.5**	**34.0S**	**178.4W**	**0**	3.9b		**5-148**
									¶97xii4710
EIDC	Origin time error = 10.24Error ellipse is semi−major=528.1km semi−minor=51.2km azimuth=164								
EIDC	**XII**	**24**	**13 31 30.9**±1.84	**33.9S**	**178.8W**	**0**	3.7b		**42-148**
EIDC	Error ellipse is semi−major=86.8km semi−minor=46.8km azimuth=2								**¶97xii4762**
ISC	**XII**	**25**	**13 19 23.1**±.88	**32.96S**±.079	**179.2W**±.15	**33**	**4.4b**	**45**	**5-161**
NEIC	XII	25	13 19 41.4	32.79S	179.43W	200	4.5b		**¶97xii4936**
EIDC	XII	25	13 19 42.9	32.8S	179.4W	196±122.6	3.9b		
NEIC	Less reliable solution.								
EIDC	Origin time error = 14.30Error ellipse is semi−major=54.1km semi−minor=29.9km azimuth=71								
EIDC	**XII**	**28**	**15 25 34.6**	**32.4S**	**179.0E**	**510**±340.3	**3.2b**		**5-154**
									¶97xii5471
EIDC	Origin time error = 35.44Error ellipse is semi−major=208.4km semi−minor=56.7km azimuth=89								
EIDC	**XII**	**30**	**23 51 13.8**±1.68	**33.6S**	**178.9W**	**44**±8.5	3.4b		**5-152**
									¶97xii5799
EIDC	Error ellipse is semi−major=78.9km semi−minor=33.6km azimuth=168								
EIDC	**XII**	**31**	**18 50 05.0**±2.03	**33.4S**	**178.9W**	**0**	3.4b		**42-148**
EIDC	Error ellipse is semi−major=95.2km semi−minor=51.4km azimuth=6								**¶97xii5949**

SEISMIC REGION 13.
FIJI AREA.

(180) North of Fiji.

EIDC	**VIII**	**13**	**07 04 32.9**	**12.9S**	**175.1E**	**0**	**3.6b**		**40-83**
									¶97viii1866
ISC	**X**	**29**	**23 56 16**±1.4	**12.0S**±.49	**174.0E**±.36	**33**	**3.9b**	**7**	**36-89**
EIDC	X	29	23 56 12.7	11.8S	174.0E	0	3.9b		**¶97x4966**
EIDC	**XI**	**04**	**12 54 40.0**	**12.9S**	**174.9E**	**0**	**3.9b**		**¶97xi0639**
EIDC	**XI**	**05**	**06 04 08.4**	**12.0S**	**174.0E**	**0**	**3.9b**		**¶97xi0741**
EIDC	**XI**	**05**	**09 02 44.3**	**12.9S**	**174.1E**	**20**	**4.0b**		**¶97xi0759**
EIDC	**XI**	**05**	**23 40 12.7**	**12.5S**	**174.4E**	**0**	**4.0b**		**¶97xi0883**
EIDC	LO CONF Location								
EIDC	**XI**	**06**	**20 06 24.1**	**12.3S**	**173.7E**	**0**	**3.8b**		**¶97xi1023**
EIDC	**XI**	**06**	**20 11 55.3**	**12.8S**	**174.7E**	**0**	**3.9b**		**¶97xi1026**
EIDC	**XI**	**09**	**04 09 54.1**	**11.7S**	**173.9E**	**0**	**3.7b**		**¶97xi1392**
EIDC	LO CONF Depth								
ISC	**XI**	**09**	**14 17 12.1**±.82	**13.0S**±.12	**174.1E**±.16	**33**	**4.4b**	**23**	**12-155**
EIDC	XI	09	14 17 08.4	12.9S	174.2E	0	4.3b		**¶97xi1455**
NEIC	XI	09	14 17 11.8	12.98S	174.11E	33	4.6b		
NEIC	Less reliable solution.								
EIDC	**XI**	**10**	**10 27 56.9**	**12.4S**	**174.3E**	**0**	**4.1b**		**¶97xi1599**
EIDC	LO CONF Location								
EIDC	**XI**	**11**	**07 17 02.2**	**12.0S**	**174.1E**	**0**	**3.9b,**3.3s		**¶97xi1753**
ISC	**XI**	**11**	**21 19 09**±1.1	**12.9S**±.29	**174.6E**±.20	**33**	**4.1b,4.5s**	**13**	**28-155**
EIDC	XI	11	21 19 05.3	13.0S	174.8E	0	4.1b,4.4s		**¶97xi1876**
NEIC	XI	11	21 19 09.2	12.92S	174.65E	33	4.6b		
NEIC	Poor solution.								
ISC	**XI**	**12**	**04 23 28.4**±.98	**13.0S**±.25	**174.7E**±.18	**33**	**4.3b**	**10**	**39-93**
EIDC	XI	12	04 23 24.3	13.2S	174.9E	0	4.2b		**¶97xi1934**
NEIC	XI	12	04 23 28.0	13.05S	174.73E	33	4.6b		
NEIC	Less reliable solution.								
ISC	**XI**	**12**	**06 08 33**±1.3	**12.9S**±.35	**174.7E**±.24	**33**	**4.2b,4.1s**	**8**	**39-155**
EIDC	XI	12	06 08 29.2	13.0S	174.8E	0	4.1b,3.8s		**¶97xi1945**
ISC	**XI**	**12**	**11 52 59.3**±.83	**12.6S**±.18	**174.6E**±.16	**33**	**4.0b,4.1s**	**16**	**28-89**
EIDC	XI	12	11 52 58.6	12.7S	174.7E	18	4.0b,4.1s		**¶97xi1982**
NEIC	XI	12	11 52 59.4	12.58S	174.54E	33	4.5b		
NEIC	Less reliable solution.								
EIDC	**XI**	**13**	**05 47 49.5**	**12.9S**	**174.7E**	**0**	**3.8b**		**¶97xi2084**
EIDC	**XI**	**16**	**01 07 44.6**	**12.6S**	**174.5E**	**0**	**4.0b**		**¶97xi2579**
EIDC	LO CONF Depth								
ISC	**XI**	**18**	**05 52 57**±2.0	**12.8S**±.27	**174.7E**±.36	**33**	**4.0b**	**8**	**12-83**
EIDC	XI	18	05 52 54.2	12.6S	174.5E	0	4.2b		**¶97xi2916**
NEIC	XI	18	05 52 57.0	12.82S	174.68E	33	4.4b		
NEIC	Poor solution.								
ISC	**XI**	**18**	**06 54 22**±3.1	**12.9S**±.74	**174.7E**±.73	**33**	**4.2b**	**5**	**36-83**
EIDC	XI	18	06 54 18.8	12.7S	174.6E	0	4.2b		**¶97xi2923**
ISC	**XI**	**18**	**07 07 07**±3.4	**11.2S**±.78	**177.5E**±.80	**33**	**3.7b**	**5**	**39-80**
EIDC	XI	18	07 07 03.6	11.1S	177.4E	0	3.8b		**¶97xi2927**
ISC	**XI**	**18**	**08 07 19**±2.5	**13.0S**±.51	**174.7E**±.49	**33**	**4.0b**	**7**	**36-83**
EIDC	XI	18	08 07 16.4	12.7S	174.6E	0	4.1b		**¶97xi2931**
NEIC	XI	18	08 07 19.1	12.98S	174.73E	33	4.3b		
NEIC	Poor solution.								
ISC	**XI**	**23**	**11 07 41**±2.0	**13.0S**±.24	**174.4E**±.36	**22**	**4.1b**	**11**	**12-83**
BJI	XI	23	11 07 41.0	13.00S	174.40E	22			**¶97xi4102**
NEIC	XI	23	11 07 41.0	12.96S	174.40E	22	3.9b		
EIDC	XI	23	11 07 41.2	13.2S	174.6E	18	4.1b		
NEIC	Poor solution.								
EIDC	**XI**	**23**	**11 31 50.5**	**12.6S**	**174.3E**	**22**	3.8b		**¶97xi4105**
EIDC	**XII**	**07**	**10 59 02.4**±2.10	**12.5S**	**174.3E**	**0**	**4.0b**		**40-89**
									¶97xii1680
EIDC	Error ellipse is semi−major=126.9km semi−minor=31.2km azimuth=145LO CONF Location								
EIDC	**XII**	**20**	**15 30 36.7**±2.98	**10.1S**	**178.9E**	**0**	**3.7b**		**45-84**
									¶97xii4134
EIDC	Error ellipse is semi−major=169.6km semi−minor=31.0km azimuth=140LO CONF Location								

(181) Fiji region.

ISC	**VII**	**01**	**16 31 32**±1.9	**20.8S**±.58	**178.9W**±.39	**600**	**3.8b**	**13**	**33-157**
NEIC	VII	01	16 31 32.1	20.91S	178.84W	600	4.0b		**¶97vii0116**
EIDC	VII	01	16 31 33.8	20.6S	179.0W	596	3.2b		
NEIC	Poor solution.								
ISC	**VII**	**02**	**09 57 22**±1.8	**14.2S**±.76	**178.8W**±.45	**33**	**3.6b**	**5**	**45-85**
EIDC	VII	02	09 57 17.1	14.6S	178.5W	0	3.6b		**¶97vii0219**
ISC	**VII**	**03**	**03 49 19**±2.2	**17.4S**±.51	**177.6W**±.37	**33**	**3.7b**	**5**	**45-86**
EIDC	VII	03	03 49 14.8	17.5S	177.5W	0	3.7b		**¶97vii0352**
ISC	**VII**	**03**	**10 57 24**±2.1	**20.4S**±.87	**179.2W**±.42	**650**	**3.4b**	**6**	**32-90**
EIDC	VII	03	10 57 24.3	20.4S	179.1W	637	2.9b		**¶97vii0399**
ISC	**VII**	**03**	**14 48 26**±3.7	**21.5S**±.86	**178.9W**±.68	**550**	**3.6b**	**5**	**33-90**
EIDC	VII	03	14 48 27.2	21.7S	178.8W	552	3.0b		**¶97vii0420**
ISC	**VII**	**04**	**04 41 45**±2.0	**19.7S**±.76	**177.9W**±.39	**300**	**3.4b**	**14**	**45-149**
EIDC	VII	04	04 41 47.1	19.9S	177.7W	318	3.3b		**¶97vii0497**
EIDC	**VII**	**04**	**14 08 54.2**	**21.0S**	**178.0W**	**0**	**4.0b**		**31-51**
									¶97vii0570
ISC	**VII**	**05**	**03 09 18**±1.1	**17.4S**±.50	**178.9W**±.32	**550**	**3.6b**	**11**	**38-147**
EIDC	VII	05	03 09 15.4	17.4S	178.8W	505	2.9b		**¶97vii0665**
NEIC	VII	05	03 09 18.2	17.34S	178.97W	550	3.7b		
NEIC	Poor solution.								

ISC	**VII**	**05 03 43 30.7**±.67	**16.7S**±.22	**179.0W**±.16	**300**	**3.8b**	**15 39-146**
EIDC	VII	05 03 43 29.0	16.6S	179.0W	267	3.5b	**¶97vii0670**
NEIC	VII	05 03 43 30.5	16.75S	179.01W	300	4.0b	
NEIC	Less reliable solution.						
ISC	**VII**	**05 08 55 38**±1.1	**14.7S**±.27	**179.0W**±.23	**33**	**3.6b**	**6 40-85**
EIDC	VII	05 08 55 33.5	14.6S	178.9W	0	3.6b	**¶97vii0706**
EIDC	**VII**	**05 13 01 10.8**	**14.6S**	**177.4W**	**0**	**3.6b**	**41-83**
							¶97vii0732
ISC	**VII**	**05 15 34 21**±1.6	**17.5S**±.58	**177.8W**±.37	**33**	**3.7b**	**7 39-85**
EIDC	VII	05 15 34 17.4	17.5S	177.8W	0	3.8b	**¶97vii0745**
EIDC	**VII**	**06 00 05 58.0**	**18.1S**	**175.5E**	**0**	**3.8b**	**39-91**
							¶97vii0812
ISC	**VII**	**06 11 36 56**±2.2	**17.6S**±.11	**179.0W**±.11	**560**±27	**4.5b**	**53 14-150**
EIDC	VII	06 11 36 45.7	16.8S	179.1W	414	3.5b	**¶97vii0878**
NEIC	VII	06 11 36 59.3	17.56S	179.17W	600	4.8b	
NEIC	Less reliable solution.						
ISC	**VII**	**06 20 39 13**±3.6	**17.5S**±.82	**177.8W**±.72	**200**	**4.1b**	**8 34-148**
EIDC	VII	06 20 39 11.5	18.1S	177.2W	200	3.9b	**¶97vii0934**
EIDC	**VII**	**08 01 31 19.5**	**21.6S**	**178.2W**	**0**	**3.9b**	**44-146**
							¶97vii1117
ISC	**VII**	**08 02 06 03.1**±.72	**17.5S**±.20	**178.4W**±.15	**500**	**3.7b**	**17 32-168**
NEIC	VII	08 02 06 03.0	17.49S	178.41W	500	4.0b	**¶97vii1119**
EIDC	VII	08 02 06 03.7	17.4S	178.5W	493	3.3b	
NEIC	Less reliable solution.						
ISC	**VII**	**08 02 06 22**±1.7	**16.7S**±.62	**178.2W**±.42	**33**	**3.9b**	**5 39-85**
EIDC	VII	08 02 06 18.4	16.8S	178.1W	0	4.1b	**¶97vii1120**
EIDC	**VII**	**08 03 28 03.6**	**18.5S**	**175.3E**	**0**	**3.7b**,4.0s	**33-39**
							¶97vii1137
ISC	**VII**	**08 12 49 37.9**±.81	**20.7S**±.19	**178.5W**±.16	**550**	**3.7b**	**14 33-150**
EIDC	VII	08 12 49 37.5	20.6S	178.4W	534	3.2b	**¶97vii1190**
NEIC	VII	08 12 49 37.8	20.68S	178.47W	550	4.1b	
NEIC	Poor solution.						
ISC	**VII**	**08 17 41 47**±2.3	**20.4S**±.86	**176.9W**±.43	**400**	**3.1b**	**7 16-150**
EIDC	VII	08 17 41 32.2	20.1S	176.7W	233	3.0b	**¶97vii1215**
ISC	**VII**	**08 23 38 49.0**±.76	**20.7S**±.21	**178.0W**±.15	**500**	**3.8b**	**13 34-145**
NEIC	VII	08 23 38 48.9	20.62S	177.98W	500	3.9b	**¶97vii1252**
EIDC	VII	08 23 38 51.5	20.4S	178.1W	510	3.5b	
NEIC	Poor solution.						
ISC	**VII**	**09 21 21 08**±2.2	**17.9S**±.81	**178.2W**±.49	**600**	**3.2b**	**6 45-148**
EIDC	VII	09 21 21 09.1	18.0S	178.2W	598	2.7b	**¶97vii1398**
ISC	**VII**	**10 05 34 51.5**±.96	**17.1S**±.62	**178.0W**±.31	**33**	**4.2b**	**10 7-86**
EIDC	VII	10 05 34 48.9	16.6S	178.2W	0	3.8b,3.6L	**¶97vii1458**
ISC	**VII**	**11 16 24 07**±1.4	**15.6S**±.53	**176.9W**±.36	**300**	**3.5b**	**10 41-146**
EIDC	VII	11 16 23 34.8	15.2S	176.6W	0	3.9b	**¶97vii1706**
NEIC	VII	11 16 24 07.1	15.59S	176.86W	300	3.5b	
NEIC	Poor solution.						
ISC	**VII**	**11 23 23 28**±2.1	**17.1S**±.80	**177.3W**±.48	**33**	**4.1b**,3.7s	**9 46-147**
EIDC	VII	11 23 23 24.3	17.1S	177.2W	0	3.9s,3.9b	**¶97vii1743**
EIDC	**VII**	**12 02 57 20.4**	**18.6S**	**176.2W**	**0**	3.9b	**47-149**
							¶97vii1767
ISC	**VII**	**13 00 12 53**±1.5	**20.01S**±.089	**177.7W**±.11	**443**±18	**3.8b**	**54 8-160**
NEIC	VII	13 00 12 53.5	19.98S	177.71W	450	4.0b	**¶97vii1895**
EIDC	VII	13 00 12 54.6	20.0S	177.7W	451	3.6b	
ISC	**VII**	**13 01 31 13.7**±.90	**19.2S**±.26	**179.0W**±.19	**500**	**3.3b**	**8 14-149**
EIDC	VII	13 01 30 22.1	18.9S	178.2W	0	3.8b	**¶97vii1904**
NEIC	VII	13 01 31 13.5	19.25S	178.97W	500		
ISC	**VII**	**13 07 25 17**±1.3	**14.0S**±.25	**178.0W**±.24	**33**	**3.6b**	**9 41-170**
NEIC	VII	13 07 25 16.8	14.01S	178.01W	33		**¶97vii1943**
EIDC	VII	13 07 25 19.8	14.1S	177.8W	53	3.5b	
NEIC	Poor solution.						
ISC	**VII**	**13 08 03 59**±1.0	**14.6S**±.26	**177.4W**±.23	**33**	**3.7b**	**7 41-91**
EIDC	VII	13 08 03 56.1	14.5S	177.4W	0	3.7b	**¶97vii1944**
ISC	**VII**	**13 10 14 01**±1.4	**19.2S**±.58	**177.8W**±.33	**500**	**3.5b**	**13 34-159**
NEIC	VII	13 10 14 00.5	19.22S	177.75W	500	3.8b	**¶97vii1957**
EIDC	VII	13 10 14 06.5	19.6S	177.7W	564	3.0b	
NEIC	Poor solution.						
EIDC	**VII**	**13 12 40 10.5**	**13.4S**	**179.5E**	**0**	**3.9s,3.6b**	**44-143**
							¶97vii1969
ISC	**VII**	**13 14 25 25**±4.0	**14.5S**±.95	**179.4E**±.92	**500**	**3.7b**	**8 32-144**
EIDC	VII	13 14 25 27.7	14.5S	179.3E	514	3.2b	**¶97vii1977**
ISC	Poorly determined						
ISC	**VII**	**13 21 29 29**±1.6	**16.6S**±.93	**178.4W**±.46	**33**	**4.2b**	**6 39-85**
EIDC	VII	13 21 29 25.0	16.4S	178.4W	0	4.2b	**¶97vii2025**
ISC	**VII**	**14 07 31 19**±2.4	**18.9S**±.96	**177.9W**±.54	**600**	**3.0b**	**4 45-87**
EIDC	VII	14 07 31 20.6	18.7S	177.9W	597	2.5b	**¶97vii2080**
ISC	Poorly determined						
EIDC	**VII**	**14 14 16 06.6**	**16.3S**	**178.8W**	**0**	**4.1b**	**39-84**
							¶97vii2147
ISC	**VII**	**14 15 22 12**±1.4	**17.9S**±.18	**178.3W**±.13	**466**±17	**4.1b**	**25 7-148**
NEIC	VII	14 15 22 11.6	17.90S	178.34W	462	4.5b	**¶97vii2161**
EIDC	VII	14 15 22 12.6	18.0S	178.3W	466	3.4b	
NEIC	Less reliable solution.						
ISC	**VII**	**14 23 52 17**±1.6	**15.7S**±.60	**179.2W**±.35	**33**	**3.8b**	**13 44-145**
EIDC	VII	14 23 52 12.9	15.8S	179.1W	0	3.8b	**¶97vii2222**
NEIC	VII	14 23 52 16.6	15.77S	179.15W	33	4.1b	
NEIC	Poor solution.						
ISC	**VII**	**15 02 55 58**±1.9	**15.1S**±.52	**177.9W**±.29	**377**±27	**3.7b**	**36 6-150**
NEIC	VII	15 02 55 59.5	15.48S	177.69W	400	3.8b	**¶97vii2240**
EIDC	VII	15 02 56 02.3	15.2S	177.9W	410	3.4b	
NEIC	Less reliable solution.						
ISC	**VII**	**15 19 06 29**±1.0	**17.7S**±.27	**177.2W**±.22	**33**	**4.0b**,4.0s	**9 46-148**
EIDC	VII	15 19 06 26.2	17.6S	177.2W	0	3.8b,4.0s	**¶97vii2338**
ISC	**VII**	**16 02 09 52**±1.8	**21.89S**±.063	**176.82W**±.077	**110**±16	**4.7b**	**175 9-161**
EIDC	VII	16 02 09 58.3	21.9S	176.7W	158	4.2b	**¶97vii2380**
NEIC	VII	16 02 10 00.0	21.90S	176.90W	183	4.6b	
BJI	VII	16 02 10 00.4	21.48S	176.63W	179	4.7b	
EIDC	**VII**	**16 05 57 21.0**	**16.3S**	**178.3W**	**0**	**4.2b**	**40-85**
							¶97vii2395
ISC	**VII**	**16 09 51 05**±1.5	**17.6S**±.63	**178.4W**±.41	**600**	**3.6b**	**6 39-87**
EIDC	VII	16 09 51 07.7	17.6S	178.4W	623	3.0b	**¶97vii2418**
EIDC	**VII**	**17 06 52 32.9**	**15.7S**	**176.0W**	**0**	**4.0b**	**42-48**
							¶97vii2558
ISC	**VII**	**17 09 44 51**±1.6	**14.4S**±.60	**177.7W**±.43	**33**	**3.7b**	**5 41-84**
EIDC	VII	17 09 44 47.3	14.4S	177.6W	0	3.8b	**¶97vii2579**
ISC	**VII**	**17 23 46 37**±1.5	**16.7S**±.60	**178.2W**±.39	**33**	**3.9b**	**7 39-146**
EIDC	VII	17 23 46 33.3	16.7S	178.2W	0	3.9b	**¶97vii2664**
ISC	**VII**	**19 04 17 51**±2.1	**18.0S**±.14	**176.7W**±.10	**37**±19	**4.4b,4.7s**	**46 6-151**
NEIC	VII	19 04 17 48.6	17.93S	176.76W	19	4.6b,4.7s	**¶97vii2828**
EIDC	VII	19 04 17 50.4	17.7S	177.0W	15	4.2b,4.4L	
BJI	VII	19 04 17 51.8	18.02S	176.96W	31	4.7b	
HRVD	VII	19 04 17 58.3±3.2	17.73S±.20	176.63W±.24	15		
NEIC	Mw5.2(HRV), Less reliable solution.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c16; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.82±.40; $M_{\theta\theta}$−5.11±.39; $M_{\phi\phi}$5.93±.54; $M_{r\theta}$−0.08±2.25; $M_{r\phi}$6.72±2.36; $M_{\theta\phi}$−0.61±.71. Principal Axes: T 10.1,Plg32°,Azm268°; N −4.8,Plg45°,Azm35°; P −5.3,Plg29°,Azm158°. Best double couple: $M_0$7.7×10^{16}Nm, NP1: ϕ_S301°,δ45°,λ178°. NP2:ϕ_S33°,δ88°,λ45°.							
ISC	**VII**	**19 12 21 29**±1.5	**21.8S**±.38	**179.7W**±.27	**500**	**3.9b**	**9 32-89**
NEIC	VII	19 12 21 29.2	21.78S	179.65W	500	4.1b	**¶97vii2870**
EIDC	VII	19 12 21 30.8	21.7S	179.7W	502	3.5b	
NEIC	Poor solution.						
ISC	**VII**	**20 03 08 13**±1.6	**19.6S**±.59	**177.9W**±.35	**550**	**3.7b**	**12 34-159**
NEIC	VII	20 03 08 12.3	19.66S	177.88W	550	3.9b	**¶97vii2993**
EIDC	VII	20 03 08 15.6	19.8S	177.9W	576	3.1b	
NEIC	Poor solution.						
ISC	**VII**	**20 19 33 07**±1.2	**17.23S**±.055	**178.76W**±.046	**456**±14	**4.7b**	**301 7-168**
EIDC	VII	20 19 33 09.0	17.1S	178.7W	466	4.1b	**¶97vii3140**
NEIC	VII	20 19 33 10.9	17.00S	178.91W	490	4.5b	
BJI	VII	20 19 33 11.5	16.82S	179.14W	475	4.7b	
ISC	**VII**	**20 21 21 16**±1.4	**15.0S**±.12	**178.37W**±.096	**380**±16	**4.0b**	**66 6-161**
BJI	VII	20 21 21 16.0	15.10S	178.35W	382	4.6b	**¶97vii3150**
NEIC	VII	20 21 21 16.3	15.02S	178.33W	385	4.4b	
EIDC	VII	20 21 21 17.3	15.1S	178.3W	388	3.5b	
NEIC	Less reliable solution.						
EIDC	**VII**	**21 05 32 28.5**	**16.4S**	**178.2W**	**0**	**3.7b**	**45-84**
							¶97vii3202
ISC	**VII**	**21 18 09 57**±2.3	**15.5S**±.72	**176.1W**±.54	**33**	**3.8b**	**5 42-84**
EIDC	VII	21 18 09 54.0	15.2S	176.3W	0	3.8b	**¶97vii3273**
ISC	**VII**	**22 08 33 18.1**±.92	**20.60S**±.046	**178.25W**±.040	**498**±11	**4.8b**	**344 9-165**
EIDC	VII	22 08 33 19.8	20.5S	178.2W	506	4.3b	**¶97vii3344**
BJI	VII	22 08 33 20.6	20.10S	178.03W	518	4.8b	
NEIC	VII	22 08 33 20.7	20.55S	178.34W	530	4.9b	
ISC	**VII**	**22 16 41 15**±1.6	**17.4S**±.32	**178.7W**±.34	**650**	**3.4b**	**5 44-147**
EIDC	VII	22 16 41 17.2	17.5S	178.7W	653	2.9b	**¶97vii3395**
ISC	Poorly determined						
ISC	**VII**	**23 10 59 12**±2.3	**16.9S**±.88	**177.6W**±.51	**33**	**3.4b**	**4 46-85**
EIDC	VII	23 10 59 09.5	16.6S	177.7W	0	3.3b	**¶97vii3519**
ISC	Poorly determined						
ISC	**VII**	**24 04 53 23**±1.5	**19.8S**±.56	**177.6W**±.35	**350**	**3.4b**	**10 38-150**
EIDC	VII	24 04 53 21.6	20.1S	177.3W	334	3.3b	**¶97vii3619**
ISC	**VII**	**24 05 53 36.4**±.90	**16.4S**±.27	**179.1W**±.19	**400**	**3.8b**	**11 32-87**
EIDC	VII	24 05 52 54.3	16.0S	178.6W	0	3.8b	**¶97vii3628**
NEIC	VII	24 05 53 36.2	16.38S	179.06W	400	4.1b	
NEIC	Poor solution.						
ISC	**VII**	**24 09 46 16**±1.2	**16.0S**±.30	**173.6E**±.25	**33**	**4.1b**,3.7s	**10 9-92**
EIDC	VII	24 09 46 12.3	15.9S	173.6E	0	4.1b,3.7s	**¶97vii3653**
NEIC	VII	24 09 46 16.0	15.87S	173.55E	33	4.4b	
NEIC	Poor solution.						
EIDC	**VII**	**24 11 49 46.3**	**15.5S**	**178.1W**	**0**	**3.8b**	**40-161**
							¶97vii3667
ISC	**VII**	**25 01 18 39.9**±.77	**14.2S**±.20	**179.8W**±.18	**33**	**3.9b,3.9s**	**10 44-133**
EIDC	VII	25 01 18 36.0	14.2S	179.6W	0	3.9b,4.1s	**¶97vii3749**
ISC	**VII**	**26 02 51 47**±1.5	**21.7S**±.62	**179.0W**±.34	**33**	**3.9b**	**8 36-91**
EIDC	VII	26 02 51 43.8	21.7S	179.0W	0	3.9b	**¶97vii3902**
EIDC	**VII**	**26 19 56 36.0**	**18.2S**	**176.8E**	**0**	**3.4b**	**40-87**
							¶97vii4004
ISC	**VII**	**26 20 53 40**±2.7	**19.9S**±.13	**177.9W**±.14	**594**±34	**4.2b**	**47 15-158**
NEIC	VII	26 20 53 41.2	19.78S	178.07W	600	4.4b	**¶97vii4010**
EIDC	VII	26 20 53 44.9	19.8S	178.1W	627	3.5b	
ISC	**VII**	**26 21 27 33**±1.4	**16.8S**±.50	**178.0W**±.31	**33**	**3.7b**	**8 40-89**
EIDC	VII	26 21 27 29.5	16.6S	178.1W	0	3.7b	**¶97vii4014**
ISC	**VII**	**26 23 20 07**±2.8	**18.2S**±.12	**177.9W**±.13	**612**±37	**4.0b**	**33 15-159**
NEIC	VII	26 23 20 09.6	18.08S	178.02W	650	4.2b	**¶97vii4027**
EIDC	VII	26 23 20 11.2	18.2S	178.0W	655	3.5b	
NEIC	Less reliable solution.						
EIDC	**VII**	**27 09 33 26.4**	**16.5S**	**178.3W**	**0**	**3.7b**	**45-86**
							¶97vii4091
ISC	**VII**	**27 11 13 05.2**±.94	**18.6S**±.21	**179.9W**±.16	**33**	**3.8b**	**8 37-92**
EIDC	VII	27 11 13 01.7	18.6S	179.9W	0	4.0b	**¶97vii4098**
ISC	**VII**	**27 18 50 09**±2.1	**19.9S**±.11	**177.87W**±.082	**595**±29	**4.3b**	**79 15-158**
EIDC	VII	27 18 50 08.5	19.6S	177.9W	564	3.7b	**¶97vii4152**
NEIC	VII	27 18 50 10.0	19.84S	177.95W	600	4.4b	
BJI	VII	27 18 50 11.9	19.22S	178.52W	575	4.6b	
ISC	**VII**	**27 19 06 20**±1.0	**20.89S**±.059	**178.67W**±.043	**593**±14	**4.8b**	**258 14-165**
NEIC	VII	27 19 06 20.7	20.75S	178.77W	600	4.8b	**¶97vii4154**
BJI	VII	27 19 06 21.3	20.76S	178.60W	609	5.0b	
EIDC	VII	27 19 06 23.2	20.7S	178.8W	613	4.1b	
MOS	VII	27 19 06 25.5	19.6S	178.4W	600	5.0b	
ISC	**VII**	**27 20 18 06**±1.5	**17.0S**±.61	**177.8W**±.40	**33**	**3.8b**	**6 40-86**
EIDC	VII	27 20 18 01.7	17.0S	177.8W	0	3.8b	**¶97vii4158**
ISC	**VII**	**28 05 58 02**±2.9	**21.5S**±.18	**179.3W**±.15	**603**±38	**4.2b**	**21 13-90**
NEIC	VII	28 05 58 02.6	21.34S	179.36W	600	4.3b	**¶97vii4213**
EIDC	VII	28 05 58 05.4	21.1S	179.5W	613	3.4b	
NEIC	Poor solution.						
ISC	**VII**	**28 10 26 23**±2.8	**19.9S**±.48	**177.6W**±.47	**450**	**3.6b**	**8 15-88**
EIDC	VII	28 10 26 21.7	19.4S	178.0W	395	3.3b	**¶97vii4248**
EIDC	**VII**	**28 10 31 48.0**	**20.8S**	**177.7W**	**700**	**2.5b**	**38-89**
							¶97vii4251
ISC	**VII**	**28 11 52 33**±1.5	**20.6S**±.65	**179.0W**±.38	**519**	**3.4b**	**8 37-150**
EIDC	VII	28 11 52 33.7	20.7S	178.9W	519	2.9b	**¶97vii4265**
ISC	**VII**	**28 14 23 49.6**±.99	**17.8S**±.27	**177.3W**±.19	**33**	**4.1b**	**18 35-148**
EIDC	VII	28 14 23 45.9	17.8S	177.2W	0	4.0b	**¶97vii4288**
NEIC	VII	28 14 23 49.5	17.84S	177.25W	33	4.1b	
NEIC	Less reliable solution.						
ISC	**VII**	**28 16 08 40**±1.2	**15.6S**±.50	**176.4W**±.23	**33**	**3.8b**	**6 41-162**
EIDC	VII	28 16 08 37.1	15.7S	176.4W	0	3.8b	**¶97vii4299**
ISC	**VII**	**29 09 18 31.0**±.96	**19.4S**±.32	**176.2W**±.21	**350**	**3.9b**	**20 16-160**
EIDC	VII	29 09 17 54.4	18.7S	176.0W	0	4.1b	**¶97vii4413**
NEIC	VII	29 09 17 57.2	19.09S	175.91W	33	4.8b	
NEIC	Less reliable solution.						
ISC	**VII**	**29 12 54 40**±3.9	**21.1S**±.87	**178.5W**±.74	**33**	**3.7b**	**7 33-90**
EIDC	VII	29 12 54 36.8	21.0S	178.6W	0	3.7b	**¶97vii4431**
ISC	**VII**	**30 01 46 46.1**±.97	**17.4S**±.20	**177.4W**±.18	**33**	**4.0b**	**9 40-85**
EIDC	VII	30 01 46 42.6	17.3S	177.4W	0	3.9b	**¶97vii4517**
ISC	**VII**	**30 04 16 28**±2.3	**19.4S**±.14	**179.4W**±.12	**560**±29	**4.1b**	**28 14-149**
NEIC	VII	30 04 16 31.7	19.05S	179.70W	600	4.3b	**¶97vii4530**
EIDC	VII	30 04 16 33.5	19.1S	179.6W	608	3.4b	
ISC	**VII**	**30 20 06 36**±1.8	**16.7S**±.34	**176.4W**±.24	**346**±21	**3.4b**	**11 5-147**
NEIC	VII	30 20 06 36.5	16.72S	176.39W	350		**¶97vii4629**
EIDC	VII	30 20 06 37.7	16.6S	176.4W	347	3.1b	
NEIC	Poor solution.						

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**VII 30 21 11 49.8**±.66	**17.8S**±.20	**178.5W**±.16	**500**	**3.9b**	**22**	**32-148**	
EIDC	VII 30 21 11 40.3	17.6S	178.2W	380	3.5b			¶97vii4634
NEIC	VII 30 21 11 49.7	17.81S	178.45W	500	4.2b			
NEIC	Less reliable solution.							
ISC	**VII 31 06 18 11**±1.2	**17.8S**±.19	**178.2W**±.15	**601**±20	**4.1b**	**21**	**7-148**	
NEIC	VII 31 06 18 10.7	17.84S	178.20W	600	4.1b			¶97vii4687
EIDC	VII 31 06 18 11.5	17.6S	178.3W	594	3.5b			
NEIC	Less reliable solution.							
ISC	**VII 31 06 42 38**±1.3	**20.0S**±.47	**178.0W**±.28	**467**	**3.7b**	**10**	**38-89**	
EIDC	VII 31 06 42 38.6	20.1S	177.9W	467	3.2b			¶97vii4690
ISC	**VII 31 11 33 45**±2.6	**20.0S**±.42	**177.5W**±.46	**300**	**3.6b**	**10**	**34-150**	
EIDC	VII 31 11 33 48.8	20.2S	177.5W	329	3.5b			¶97vii4722
EIDC	**VII 31 13 30 51.2**	**13.9S**	**178.3W**	**0**	**4.1b**		**46-82**	
								¶97vii4738
ISC	**VIII 01 11 58 55**±1.4	**16.5S**±.60	**178.4W**±.39	**33**	**3.8b**	**6**	**39-86**	
EIDC	VIII 01 11 58 50.9	16.4S	178.4W	0	3.8b			¶97viii0057
EIDC	**VIII 01 16 09 59.7**	**20.3S**	**176.7W**	**0**	**3.7b**		**39-86**	
								¶97viii0088
ISC	**VIII 01 17 30 37**±1.1	**20.3S**±.34	**178.8W**±.24	**550**	**3.8b**	**16**	**37-157**	
NEIC	VIII 01 17 30 37.3	20.28S	178.84W	550	3.9b			¶97viii0095
EIDC	VIII 01 17 30 43.7	20.4S	178.9W	618	3.2b			
NEIC	Poor solution.							
ISC	**VIII 02 05 06 26**±1.4	**19.8S**±.64	**178.0W**±.38	**500**	**3.6b**	**9**	**38-150**	
EIDC	VIII 02 05 06 27.0	19.9S	177.9W	502	3.1b			¶97viii0175
ISC	**VIII 02 16 04 28.0**±.63	**17.0S**±.24	**177.2W**±.16	**33**	**4.2b,4.2s**	**19**	**6-147**	
EIDC	VIII 02 16 04 24.7	17.0S	177.3W	0	4.2s,4.1b			¶97viii0235
NEIC	VIII 02 16 04 27.9	17.01S	177.22W	33	4.4b			
NEIC	Poor solution.							
ISC	**VIII 02 21 21 58**±1.2	**15.3S**±.51	**177.8W**±.34	**300**	**3.8b**	**29**	**40-151**	
NEIC	VIII 02 21 21 58.2	15.33S	177.81W	300	4.1b			¶97viii0261
EIDC	VIII 02 21 22 00.7	15.3S	177.8W	313	3.4b			
NEIC	Poor solution.							
ISC	**VIII 03 04 47 39.6**±.63	**20.0S**±.15	**178.6W**±.16	**600**	**3.7b**	**19**	**44-150**	
EIDC	VIII 03 04 47 37.3	19.9S	178.5W	558	3.3b			¶97viii0298
NEIC	VIII 03 04 47 39.6	20.03S	178.55W	600	3.6b			
NEIC	Less reliable solution.							
ISC	**VIII 03 22 25 14**±1.7	**17.7S**±.66	**178.2W**±.44	**600**	**3.2b**	**6**	**39-147**	
EIDC	VIII 03 22 25 16.6	17.8S	178.2W	622	2.6b			¶97viii0419
EIDC	**VIII 04 18 05 22.2**	**18.8S**	**177.4W**	**0**	**4.1b**		**39-45**	
								¶97viii0527
ISC	**VIII 04 21 40 03**±2.1	**20.1S**±.67	**178.2W**±.44	**600**	**3.6b**	**8**	**33-89**	
EIDC	VIII 04 21 40 02.2	20.1S	178.1W	579	3.0b			¶97viii0557
ISC	**VIII 05 03 30 24**±1.1	**18.1S**±.13	**177.8W**±.11	**611**±16	**4.3b**	**30**	**7-160**	
NEIC	VIII 05 03 30 23.5	18.15S	177.82W	600	4.6b			¶97viii0609
EIDC	VIII 05 03 30 24.2	18.1S	177.8W	593	3.6b			
NEIC	Less reliable solution.							
ISC	**VIII 05 08 13 24**±4.8	**21.0S**±.24	**176.6W**±.19	**266**±44	**3.9b**	**20**	**16-159**	
NEIC	VIII 05 08 13 19.1	21.06S	176.45W	224	4.2b			¶97viii0635
EIDC	VIII 05 08 13 20.8	21.1S	176.6W	224	3.7b			
NEIC	Less reliable solution.							
ISC	**VIII 05 11 09 43.8**±.77	**20.80S**±.049	**178.78W**±.040	**587**±11	**4.8b**	**246**	**8-165**	
EIDC	VIII 05 11 09 44.2	20.8S	178.7W	582	4.2b			¶97viii0658
NEIC	VIII 05 11 09 46.7	20.69S	178.93W	620	4.8b			
BJI	VIII 05 11 09 47.1	20.55S	178.93W	615	4.7b			
EIDC	**VIII 05 15 36 23.5**	**16.4S**	**179.8W**	**0**	**4.4b**,3.4s		**32-44**	
								¶97viii0684
ISC	**VIII 05 21 25 53**±1.7	**20.25S**±.075	**177.76W**±.073	**529**±20	**4.7b**	**95**	**9-158**	
NEIC	VIII 05 21 25 50.8	20.16S	177.69W	500	4.8b			¶97viii0717
EIDC	VIII 05 21 25 52.4	20.2S	177.7W	510	4.0b			
ISC	**VIII 06 01 23 22.1**±.71	**20.6S**±.23	**178.5W**±.17	**550**	**3.6b**	**18**	**37-158**	
NEIC	VIII 06 01 23 22.0	20.56S	178.50W	550	4.0b			¶97viii0746
EIDC	VIII 06 01 23 23.2	20.5S	178.5W	547	3.1b			
NEIC	Less reliable solution.							
ISC	**VIII 06 06 10 03**±1.9	**16.4S**±.73	**178.7W**±.43	**33**	**3.9b**	**7**	**45-146**	
EIDC	VIII 06 06 09 59.8	16.3S	178.7W	0	3.9b			¶97viii0760
ISC	**VIII 06 06 32 47**±1.1	**17.1S**±.27	**178.1W**±.23	**33**	**3.6b**	**6**	**32-85**	
EIDC	VIII 06 06 32 43.1	17.0S	178.1W	0	3.6b			¶97viii0765
ISC	**VIII 06 23 55 59**±3.0	**20.3S**±.65	**178.4W**±.53	**550**	**4.1b**	**16**	**33-158**	
NEIC	VIII 06 23 56 00.0	20.15S	178.58W	550	4.2b			¶97viii0856
EIDC	VIII 06 23 56 01.5	20.3S	178.5W	560	3.5b			
NEIC	Poor solution.							
ISC	**VIII 07 02 13 00**±1.5	**20.0S**±.60	**178.2W**±.34	**600**	**3.5b**	**8**	**33-150**	
EIDC	VIII 07 02 12 59.8	19.8S	178.2W	577	2.9b			¶97viii0875
ISC	**VIII 07 23 21 03**±1.0	**21.8S**±.23	**178.3W**±.18	**450**	**3.7b**	**13**	**33-157**	
EIDC	VIII 07 23 20 55.0	21.6S	178.2W	354	3.4b			¶97viii1013
NEIC	VIII 07 23 21 03.2	21.82S	178.34W	450	3.9b			
NEIC	Poor solution.							
ISC	**VIII 08 02 32 22**±2.2	**20.8S**±.67	**178.8W**±.45	**500**	**3.5b**	**12**	**37-157**	
EIDC	VIII 08 02 32 19.1	21.3S	178.3W	473	3.2b			¶97viii1043
ISC	**VIII 08 18 50 15**±1.1	**16.9S**±.26	**177.9W**±.24	**400**	**3.9b**	**14**	**32-85**	
NEIC	VIII 08 18 50 15.0	16.94S	177.86W	400	4.3b			¶97viii1152
EIDC	VIII 08 18 50 15.1	17.1S	177.6W	398	3.4b			
NEIC	Poor solution.							
ISC	**VIII 08 21 39 00**±1.4	**20.5S**±.49	**178.6W**±.27	**600**	**3.9b**	**19**	**33-158**	
NEIC	VIII 08 21 38 59.8	20.59S	178.58W	600	4.0b			¶97viii1168
EIDC	VIII 08 21 39 00.5	20.4S	178.6W	587	3.2b			
NEIC	Poor solution.							
ISC	**VIII 08 22 27 20.1**±.15	**15.61S**±.033	**179.08W**±.035	**10**	**5.6b,6.5s**	**548**	**7-171**	
BJI	VIII 08 22 27 16.7	15.83S	178.72W	5	5.9b,6.5s			¶97viii1173
EIDC	VIII 08 22 27 19.1	15.6S	178.9W	0	5.0b,4.8L			
NEIC	VIII 08 22 27 19.8	15.48S	179.14W	10	5.7b,6.6s			
MOS	VIII 08 22 27 24.6	15.4S	179.3W	33	6.1b,6.4s			
NEIC	Mw6.6(HRV), Ms6.6(BRK).							
NEIC	Mw 6.5 (GS).							
NEIC	Moment tensor solution: s43, scale 10^{18}Nm; M_{rr}−0.26; $M_{\theta\theta}$−3.62; $M_{\phi\phi}$3.88; $M_{r\theta}$0.42; $M_{r\phi}$1.66; $M_{\theta\phi}$5.66. Depth 24km; Principal axes: T 7.29,Plg12°,Azm298°; N −0.60,Plg77°, Azm136°; P −6.68,Plg4°,Azm29°. Best double couple: $M_0$7.0×10^{18}Nm; NP1:ϕ_S74°,δ78°,λ6°. NP2:ϕ_S343°,δ84°,λ168°.							
EIDC	**VIII 09 00 57 21.4**	**14.0S**	**177.6W**	**0**	**4.0b**		**35-144**	
								¶97viii1187
ISC	**VIII 09 04 10 48**±1.3	**17.1S**±.40	**178.7W**±.25	**500**	**3.6b**	**11**	**44-147**	
NEIC	VIII 09 04 10 48.0	17.08S	178.78W	500	3.8b			¶97viii1199
EIDC	VIII 09 04 10 49.7	17.2S	178.7W	514	3.2b			
NEIC	Poor solution.							
ISC	**VIII 09 05 26 34**±1.2	**14.4S**±.33	**179.1W**±.25	**350**	**3.5b**	**9**	**40-160**	
EIDC	VIII 09 05 26 37.0	14.5S	179.0W	369	3.1b			¶97viii1207
ISC	**VIII 09 11 18 01**±1.4	**14.7S**±.11	**174.5E**±.14	**657**±17	**4.3b**	**31**	**7-94**	
EIDC	VIII 09 11 16 59.9	13.3S	175.0E	0	4.5b			¶97viii1240
NEIC	VIII 09 11 17 49.7	14.36S	174.71E	500	4.6b			
NEIC	Less reliable solution.							
ISC	**VIII 09 11 19 53**±2.7	**14.6S**±.26	**174.4E**±.20	**662**±37	**4.1b**	**20**	**11-90**	
EIDC	VIII 09 11 18 50.3	13.1S	175.0E	0	4.2b			¶97viii1241
NEIC	VIII 09 11 19 40.6	14.23S	174.66E	500	4.3b			
NEIC	Poor solution.							
ISC	**VIII 09 11 21 44**±1.1	**14.3S**±.27	**174.7E**±.25	**500**	**3.8b**	**12**	**27-90**	
EIDC	VIII 09 11 20 54.1	13.2S	175.0E	0	4.0b			¶97viii1242
NEIC	VIII 09 11 21 44.2	14.32S	174.72E	500	4.2b			
NEIC	Poor solution.							
EIDC	**VIII 09 13 14 19.5**	**18.9S**	**176.7E**	**0**	**3.8b**		**34-40**	
								¶97viii1253
ISC	**VIII 10 18 08 09**±1.4	**17.9S**±.22	**178.3W**±.17	**485**±21	**4.0b**	**50**	**7-153**	
NEIC	VIII 10 18 08 09.1	17.74S	178.42W	476	4.3b			¶97viii1434
BJI	VIII 10 18 08 10.2	17.42S	178.98W	444	4.4b			
EIDC	VIII 10 18 08 10.7	17.8S	178.4W	487	3.5b			
NEIC	Less reliable solution.							
ISC	**VIII 10 18 08 16**±1.7	**15.2S**±.72	**176.6W**±.43	**33**	**4.0b**	**7**	**47-84**	
EIDC	VIII 10 18 08 11.6	15.2S	176.5W	0	4.0b			¶97viii1435
EIDC	**VIII 11 02 56 30.5**	**16.4S**	**180.0W**	**0**	**4.0b**		**44-66**	
								¶97viii1499
ISC	**VIII 11 10 18 31.4**±.98	**16.8S**±.24	**178.3W**±.18	**33**	**4.0b**	**10**	**39-147**	
EIDC	VIII 11 10 18 27.9	16.6S	178.3W	0	3.9b			¶97viii1544
ISC	**VIII 11 17 31 53**±2.4	**16.7S**±.81	**176.0W**±.62	**700**	**3.1b**	**6**	**41-147**	
EIDC	VIII 11 17 31 54.3	16.4S	176.1W	700	2.6b			¶97viii1597
ISC	**VIII 11 18 26 14**±1.4	**16.8S**±.62	**178.7W**±.37	**450**	**3.5b**	**13**	**39-146**	
NEIC	VIII 11 18 26 14.6	16.41S	178.97W	450	3.5b			¶97viii1604
EIDC	VIII 11 18 26 16.5	16.2S	179.2W	455	3.1b			
NEIC	Poor solution.							
EIDC	**VIII 12 06 10 14.2**	**17.8S**	**178.8W**	**639**	**3.2b**		**38-159**	
NEIC	VIII 12 06 10 15.3	18.00S	179.00W	650	4.0b			¶97viii1689
NEIC	Poor solution.							
ISC	**VIII 12 13 55 35**±2.0	**22.0S**±.75	**179.7W**±.29	**650**	**3.6b**	**6**	**32-147**	
EIDC	VIII 12 13 55 39.9	22.3S	179.9W	689	3.0b			¶97viii1761
ISC	**VIII 12 18 08 42.5**±.98	**14.6S**±.24	**176.2W**±.21	**300**	**3.8b**	**12**	**41-163**	
EIDC	VIII 12 18 08 38.9	14.5S	176.1W	251	3.6b			¶97viii1786
NEIC	VIII 12 18 08 42.3	14.66S	176.16W	300	4.0b			
NEIC	Poor solution.							
ISC	**VIII 13 00 49 30**±4.5	**20.1S**±.23	**178.0W**±.23	**558**±55	**3.9b**	**20**	**15-158**	
EIDC	VIII 13 00 49 23.0	19.9S	177.7W	467	3.3b			¶97viii1830
NEIC	VIII 13 00 49 25.3	20.15S	177.81W	500	4.4b			
NEIC	Poor solution.							
ISC	**VIII 13 11 42 02.3**±.83	**19.0S**±.16	**177.7W**±.17	**550**	**3.7b**	**11**	**34-159**	
NEIC	VIII 13 11 42 02.1	19.05S	177.69W	550	4.1b			¶97viii1899
EIDC	VIII 13 11 42 06.0	19.0S	177.8W	579	3.2b			
NEIC	Less reliable solution.							
ISC	**VIII 13 15 34 33**±1.4	**17.5S**±.60	**179.1W**±.32	**588**	**3.9b**	**12**	**31-159**	
EIDC	VIII 13 15 34 34.1	17.6S	179.1W	588	2.9b			¶97viii1932
ISC	**VIII 13 18 07 39.0**±.90	**16.7S**±.17	**175.9E**±.19	**33**	**4.0b**,3.8s	**26**	**35-155**	
EIDC	VIII 13 18 07 35.7	16.6S	175.8E	0	4.0b,3.8s			¶97viii1946
NEIC	VIII 13 18 07 39.0	16.73S	175.87E	33				
NEIC	Less reliable solution.							
ISC	**VIII 13 21 41 13**±1.7	**21.6S**±.86	**176.5W**±.38	**33**	**4.2b**	**9**	**16-158**	
EIDC	VIII 13 21 41 09.8	20.7S	176.7W	0	4.1b			¶97viii1964
ISC	**VIII 14 13 25 53**±1.6	**20.2S**±.23	**177.9W**±.19	**493**±20	**4.1b**	**29**	**9-150**	
EIDC	VIII 14 13 25 55.5	20.1S	177.9W	511	3.6b			¶97viii2067
NEIC	VIII 14 13 25 57.4	20.31S	177.92W	550	4.3b			
BJI	VIII 14 13 25 57.6	20.49S	178.15W	533	4.3b			
NEIC	Less reliable solution.							
EIDC	**VIII 14 17 34 10.7**	**18.0S**	**176.6W**	**0**	**4.0b**		**40-148**	
								¶97viii2096
ISC	**VIII 15 13 21 44**±1.5	**15.8S**±.27	**178.9W**±.25	**33**	**4.1b**	**6**	**45-84**	
EIDC	VIII 15 13 21 40.3	15.7S	179.0W	0	4.2b			¶97viii2225
EIDC	**VIII 15 18 58 58.3**	**21.7S**	**176.0W**	**0**	**4.0b**		**35-152**	
								¶97viii2255
ISC	**VIII 16 00 34 51**±1.2	**17.9S**±.38	**178.2W**±.24	**600**	**3.9b**	**9**	**34-87**	
EIDC	VIII 16 00 34 52.5	17.8S	178.3W	596	3.3b			¶97viii2294
ISC	**VIII 16 19 38 01.5**±.71	**21.6S**±.21	**178.1W**±.15	**400**	**3.7b**	**19**	**31-151**	
NEIC	VIII 16 19 38 01.5	21.59S	178.11W	400	3.9b			¶97viii2410
EIDC	VIII 16 19 38 03.7	21.4S	178.2W	409	3.4b			
NEIC	Less reliable solution.							
ISC	**VIII 16 22 45 49**±1.6	**21.8S**±.79	**179.9W**±.35	**650**	**3.9b**	**9**	**29-151**	
EIDC	VIII 16 22 45 53.3	21.8S	179.9E	694	3.1b			¶97viii2429
ISC	**VIII 17 01 57 38**±1.1	**15.9S**±.31	**178.7W**±.22	**33**	**4.1b**	**9**	**39-86**	
EIDC	VIII 17 01 57 33.4	16.1S	178.4W	0	4.2b			¶97viii2456
EIDC	VIII 17 01 57 37.8	15.89S	178.66W	33	4.3b			
NEIC	Poor solution.							
EIDC	**VIII 17 11 20 48.9**	**16.4S**	**177.4W**	**0**	**3.6b**		**46-84**	
								¶97viii2531
ISC	**VIII 17 17 33 13**±1.1	**17.1S**±.48	**179.5W**±.34	**600**	**3.9b**	**11**	**31-144**	
EIDC	VIII 17 17 32 14.9	16.2S	178.9W	0	3.9b			¶97viii2567
NEIC	VIII 17 17 33 13.4	17.10S	179.51W	600	4.5b			
NEIC	Poor solution.							
ISC	**VIII 17 17 44 07**±4.6	**20.4S**±.13	**176.3W**±.18	**329**±45	**3.7b**	**29**	**15-160**	
EIDC	VIII 17 17 43 58.9	20.3S	176.2W	239	3.7b			¶97viii2568
NEIC	VIII 17 17 44 03.8	20.48S	176.20W	300	4.0b			
NEIC	Less reliable solution.							
EIDC	**VIII 18 08 10 05.6**	**17.7S**	**177.3W**	**0**	**3.9b**		**46-85**	
								¶97viii2643
ISC	**VIII 18 16 32 10**±3.5	**17.5S**±.27	**178.7W**±.22	**625**±46	**4.2b**	**22**	**15-150**	
NEIC	VIII 18 16 31 58.1	17.30S	178.52W	473	4.3b			¶97viii2694
EIDC	VIII 18 16 32 00.1	17.2S	178.6W	480	3.4b			
NEIC	Less reliable solution.							
ISC	**VIII 18 19 33 50**±1.5	**21.1S**±.27	**176.2W**±.28	**33**	**3.7b**	**5**	**46-89**	
EIDC	VIII 18 19 33 46.3	21.0S	176.2W	0	3.5b			¶97viii2707
ISC	**VIII 18 21 41 47**±1.5	**20.0S**±.54	**179.0W**±.35	**650**	**3.4b**	**9**	**37-158**	
EIDC	VIII 18 21 41 48.4	19.9S	179.0W	647	2.9b			¶97viii2714
ISC	**VIII 19 16 57 50**±1.3	**20.23S**±.072	**177.74W**±.079	**474**±15	**4.4b**	**82**	**8-158**	
EIDC	VIII 19 16 57 51.3	20.2S	177.6W	481	3.8b			¶97viii2840
BJI	VIII 19 16 57 52.1	20.20S	177.70W	500	4.6b			
NEIC	VIII 19 16 57 52.1	20.23S	177.72W	500	4.5b			
ISC	**VIII 19 20 09 13**±1.1	**17.4S**±.38	**178.5W**±.27	**500**	**3.9b**	**16**	**32-159**	
NEIC	VIII 19 20 09 12.9	17.44S	178.45W	500	4.1b			¶97viii2866
EIDC	VIII 19 20 09 13.8	17.5S	178.3W	503	3.4b			
NEIC	Poor solution.							
ISC	**VIII 20 10 47 05**±1.3	**17.6S**±.34	**178.8W**±.21	**559**±21	**4.1b**	**20**	**8-88**	
NEIC	VIII 20 10 47 04.6	17.35S	178.93W	550	4.4b			¶97viii2944
EIDC	VIII 20 10 47 05.8	17.4S	178.8W	550	3.4b			
NEIC	Less reliable solution.							
ISC	**VIII 20 10 51 29**±1.2	**17.0S**±.51	**179.3W**±.35	**550**	**3.6b**	**10**	**31-147**	
EIDC	VIII 20 10 51 27.2	17.0S	179.2W	511	3.0b			¶97viii2945
NEIC	VIII 20 10 51 29.3	17.02S	179.28W	550	4.2b			

NEIC Poor solution.
EIDC VIII 20 10 55 32.7 20.3S 177.6W 0 3.3b 45-88 ¶97viii2946
EIDC VIII 21 19 39 53.0 19.1S 179.4W 559 2.6b **44-149 ¶97viii3133**
EIDC VIII 22 08 07 53.9 17.8S 177.7W 0 3.7b 45-85 ¶97viii3196
ISC VIII 23 01 33 54±1.4 **16.6S**±.40 **177.9W**±.28 **33 4.1b 8 40-85**
EIDC VIII 23 01 33 51.4 16.3S 178.0W 0 4.2b **¶97viii3320**
ISC VIII 23 06 22 07±1.1 **17.7S**±.31 **178.5W**±.21 **609**±17 **4.2b 33 7-159**
NEIC VIII 23 06 22 06.8 17.73S 178.52W 600 4.3b **¶97viii3353**
EIDC VIII 23 06 22 07.4 17.5S 178.5W 588 3.6b
NEIC Less reliable solution.
ISC VIII 23 09 26 11±1.6 **18.1S**±.54 **178.1W**±.32 **500 3.8b 11 45-148**
NEIC VIII 23 09 26 11.3 18.10S 178.16W 500 3.8b **¶97viii3379**
EIDC VIII 23 09 26 14.6 18.1S 178.2W 525 3.5b
NEIC Poor solution.
ISC VIII 25 04 45 07±2.2 **16.6S**±.87 **178.3W**±.53 **33 3.6b 4 45-86**
EIDC VIII 25 04 45 03.4 16.6S 178.3W 0 3.6b **¶97viii3646**
ISC Poorly determined
ISC VIII 25 11 58 59±1.2 **20.82S**±.042 **177.75W**±.038 **370**±12 **5.3b 508 8-164**
MOS VIII 25 11 58 56.4 20.7S 177.7W 342 5.7b **¶97viii3686**
NEIC VIII 25 11 59 00.8 20.80S 177.78W 394 5.3b
BJI VIII 25 11 59 01.1 20.51S 177.51W 393 5.5b
EIDC VIII 25 11 59 05.1 20.7S 177.8W 421 4.8b
HRVD VIII 25 11 59 06.1±.2 20.81S 177.50W 416±1.1
NEIC Mw5.6(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c75; Mantle waves: s6,c7; Half duration: 1$4. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.69±.05; $M_{\theta\theta}$1.07±.08; $M_{\phi\phi}$1.62±.09; $M_{r\theta}$−0.22±.08; $M_{r\phi}$−0.48±.09; $M_{\theta\phi}$0.77±.07. Principal Axes: T 2.22,Plg6°,Azm125°; N 0.53,Plg2°,Azm35°; P −2.75,Plg84°,Azm290°. Best double couple: $M_0$2.5×10^{17}Nm, NP1:ϕ_S217°,δ39°,λ−87°. NP2:ϕ_S34°,δ51°,λ−92°.
ISC VIII 25 13 49 00±2.4 **20.5S**±.62 **178.3W**±.40 **450 3.5b 7 44-150**
EIDC VIII 25 13 49 02.3 20.6S 178.1W 470 3.1b **¶97viii3696**
ISC VIII 26 02 08 17±1.7 **15.4S**±.38 **178.6W**±.21 **404**±25 **3.7b 36 7-151**
NEIC VIII 26 02 08 16.3 15.35S 178.67W 400 3.6b **¶97viii3773**
EIDC VIII 26 02 08 18.3 15.4S 178.6W 407 3.4b
NEIC Less reliable solution.
ISC VIII 26 08 19 52±3.9 **17.5S**±.34 **179.2W**±.27 **602**±51 **4.1b 20 14-147**
NEIC VIII 26 08 19 51.6 17.48S 179.14W 600 4.3b **¶97viii3812**
EIDC VIII 26 08 19 53.9 17.4S 179.2W 610 3.4b
NEIC Less reliable solution.
ISC VIII 26 13 04 36.6±.95 **20.4S**±.26 **178.2W**±.21 **33 3.6b 6 44-89**
EIDC VIII 26 13 04 32.9 20.3S 178.1W 0 3.6b **¶97viii3849**
ISC VIII 27 14 13 29±1.4 **19.5S**±.37 **178.6W**±.29 **550 4.0b 17 29-149**
NEIC VIII 27 14 13 28.9 19.52S 178.62W 550 4.0b **¶97viii3998**
EIDC VIII 27 14 13 38.5 19.8S 178.8W 658 3.4b
NEIC Poor solution.
ISC VIII 28 01 15 15±1.6 **16.9S**±.94 **177.9W**±.46 **33 3.9b 6 40-85**
EIDC VIII 28 01 15 11.4 17.0S 177.8W 0 3.9b **¶97viii4067**
ISC VIII 29 05 25 00±1.4 **17.5S**±.19 **179.0W**±.14 **495**±19 **4.2b 27 8-147**
NEIC VIII 29 05 25 00.2 17.52S 178.98W 500 4.4b **¶97viii4241**
EIDC VIII 29 05 25 05.0 17.6S 179.0W 541 3.7b
NEIC Less reliable solution.
ISC VIII 29 11 29 24±1.9 **13.7S**±.36 **175.3E**±.40 **33 4.0b 9 28-93**
EIDC VIII 29 11 29 20.2 13.7S 175.3E 0 4.1b **¶97viii4291**
ISC VIII 29 21 59 46±1.5 **17.6S**±.14 **178.3W**±.12 **400**±18 **4.1b 40 7-154**
EIDC VIII 29 21 59 46.0 17.7S 178.3W 377 3.8b **¶97viii4383**
NEIC VIII 29 21 59 46.5 17.59S 178.31W 400 4.2b
NEIC Less reliable solution.
NEIC VIII 31 04 48 47.1 15.20S 176.90W 33 4.2b **41-131**
EIDC VIII 31 04 48 43.9 15.4S 176.8W 0 4.2b **¶97viii4585**
NEIC Poor solution.
ISC VIII 31 20 48 58±3.0 **17.4S**±.68 **178.9W**±.65 **600 3.8b 8 38-147**
EIDC VIII 31 20 48 59.9 17.5S 178.8W 619 3.2b **¶97viii4704**
ISC VIII 31 22 00 13±10 **19.1S**±.48 **177.8W**±.28 **555**±130 **4.0b 37 37-153**
NEIC VIII 31 22 00 08.8 19.02S 177.73W 500 4.2b **¶97viii4717**
EIDC VIII 31 22 00 15.8 19.1S 177.8W 568 3.3b
NEIC Poor solution.
ISC IX 01 00 05 11±1.9 **20.50S**±.095 **178.00W**±.091 **562**±24 **4.4b 119 9-165**
BJI IX 01 00 05 10.1 20.50S 178.00W 550 4.7b **¶97ix0002**
NEIC IX 01 00 05 10.1 20.49S 177.97W 550 4.5b
EIDC IX 01 00 05 10.9 20.3S 177.9W 543 3.9b
EIDC IX 01 02 50 21.4 20.2S 178.1W 0 3.5b **¶97ix0029**
ISC IX 01 14 48 37±1.4 **21.0S**±.40 **179.1W**±.30 **500 3.7b 22 33-150**
NEIC IX 01 14 48 36.1 21.12S 179.02W 500 3.8b **¶97ix0118**
EIDC IX 01 14 48 39.1 21.1S 179.0W 523 3.3b
NEIC Poor solution.
ISC IX 01 21 41 06±1.8 **21.0S**±.19 **177.3W**±.18 **411**±26 **3.9b 15 9-151**
NEIC IX 01 21 41 05.4 20.98S 177.33W 400 3.8b **¶97ix0168**
EIDC IX 01 21 41 05.4 21.0S 177.3W 397 3.7b
NEIC Poor solution.
ISC IX 02 09 47 00±4.4 **21.75S**±.094 **176.23W**±.082 **147**±41 **4.5b 103 8-161**
EIDC IX 02 09 46 53.5 21.7S 176.0W 84 4.4b **¶97ix0254**
BJI IX 02 09 46 58.5 21.80S 176.20W 139 4.8b
NEIC IX 02 09 46 58.5 21.77S 176.19W 139 4.8b
EIDC IX 02 10 58 47.9 17.3S 178.8W 700 2.5b ¶97ix0265
ISC IX 03 14 35 42.4±.97 **18.01S**±.080 **178.31W**±.078 **607**±14 **4.2b 67 7-152**
NEIC IX 03 14 35 41.7 17.99S 178.28W 600 4.3b **¶97ix0434**
EIDC IX 03 14 35 44.1 18.0S 178.3W 621 3.6b
NEIC Less reliable solution.
ISC IX 03 19 24 25±1.1 **17.98S**±.062 **178.46W**±.063 **536**±14 **4.4b 82 8-167**
NEIC IX 03 19 24 26.6 17.87S 178.52W 550 4.4b **¶97ix0468**
EIDC IX 03 19 24 29.6 17.9S 178.5W 577 3.8b
ISC IX 04 13 43 20±1.2 **16.0S**±.25 **176.1W**±.16 **351**±15 **4.1b 23 5-146**
NEIC IX 04 13 43 15.0 15.86S 176.06W 300 4.3b **¶97ix0598**
EIDC IX 04 13 43 21.5 15.9S 176.0W 349 3.5b
NEIC Less reliable solution.
ISC IX 04 21 05 58±2.0 **17.5S**±.85 **178.5W**±.47 **450 3.5b 7 45-147**
EIDC IX 04 21 05 59.4 17.5S 178.5W 455 3.2b **¶97ix0635**
ISC IX 05 01 13 15±1.4 **20.7S**±.10 **178.6W**±.10 **587**±19 **4.2b 40 9-161**
NEIC IX 05 01 13 15.6 20.69S 178.62W 600 4.3b **¶97ix0666**
EIDC IX 05 01 13 17.4 20.7S 178.7W 603 3.6b
NEIC Less reliable solution.
EIDC IX 05 02 57 50.2 21.3S 176.4W 0 3.6b ¶97ix0674
ISC IX 05 13 31 21±3.3 **17.9S**±.14 **178.1W**±.15 **583**±41 **4.0b 27 15-148**
NEIC IX 05 13 31 22.8 17.77S 178.16W 600 4.2b **¶97ix0749**
EIDC IX 05 13 31 23.5 17.7S 178.1W 592 3.4b
NEIC Less reliable solution.
ISC IX 06 01 08 52.6±.81 **22.0S**±.16 **179.3W**±.14 **500 3.8b 18 20-151**
NEIC IX 06 01 08 44.2 21.79S 179.25W 400 3.8b **¶97ix0832**
EIDC IX 06 01 08 57.7 22.0S 179.3W 551 3.4b
NEIC Less reliable solution.
ISC IX 06 06 50 21±1.5 **20.1S**±.55 **176.4W**±.30 **300 3.6b 10 16-88**
EIDC IX 06 06 49 49.1 19.8S 176.1W 0 3.9b **¶97ix0873**
ISC IX 07 21 59 46±1.2 **17.6S**±.31 **178.8W**±.19 **547**±19 **4.3b 29 8-154**
EIDC IX 07 21 59 46.7 17.5S 178.9W 538 3.6b **¶97ix1129**
ISC IX 07 23 18 29±3.9 **21.7S**±.18 **178.6W**±.23 **517**±49 **3.4b 11 14-90**
EIDC IX 07 23 17 54.1 20.6S 178.4W 133 3.4b **¶97ix1138**
EIDC IX 08 08 40 29.2 17.3S 179.1W 639 2.9b ¶97ix1197
EIDC LO CONF Location
ISC IX 08 11 41 00±1.2 **20.26S**±.077 **178.11W**±.079 **515**±16 **4.2b 52 9-150**
EIDC IX 08 11 41 00.4 20.2S 178.1W 512 3.8b **¶97ix1214**
NEIC IX 08 11 41 02.4 20.29S 178.21W 550 4.4b
ISC IX 08 16 20 25±1.7 **14.7S**±.68 **179.5W**±.51 **33 4.1b 7 39-86**
EIDC IX 08 16 20 21.3 14.7S 179.4W 0 4.2b **¶97ix1246**
ISC IX 10 01 52 12.8±.74 **20.4S**±.21 **179.6W**±.18 **600 3.5b 15 43-150**
EIDC IX 10 01 52 12.1 20.3S 179.5W 574 3.1b **¶97ix1464**
NEIC IX 10 01 52 12.8 20.45S 179.56W 600
NEIC Less reliable solution.
ISC IX 11 04 06 27±1.2 **17.6S**±.48 **178.8W**±.29 **600 3.9b 15 33-147**
NEIC IX 11 04 06 27.0 17.59S 178.82W 600 4.2b **¶97ix1630**
EIDC IX 11 04 06 27.5 17.5S 178.8W 588 3.3b
NEIC Poor solution.
ISC IX 11 07 31 44±3.9 **19.5S**±.90 **178.4W**±.77 **33 4.0b 6 38-87**
EIDC IX 11 07 31 40.4 19.5S 178.2W 0 4.1b **¶97ix1648**
EIDC IX 11 22 40 46.8 16.2S 176.6W 0 4.4b ¶97ix1740
ISC IX 12 00 46 07±1.2 **17.9S**±.12 **178.1W**±.11 **590**±18 **4.2b 87 7-153**
EIDC IX 12 00 46 06.2 17.8S 178.1W 562 3.8b **¶97ix1756**
NEIC IX 12 00 46 08.0 17.91S 178.12W 600 4.4b
NEIC Less reliable solution.
EIDC IX 12 04 40 51.5 21.7S 179.2W 0 3.8b ¶97ix1771
ISC IX 12 09 27 40±2.3 **16.7S**±.87 **177.7W**±.51 **33 3.5b 4 46-85**
EIDC IX 12 09 27 36.3 16.7S 177.6W 0 3.4b **¶97ix1797**
ISC Poorly determined
ISC IX 12 16 34 28±1.3 **17.6S**±.21 **178.5W**±.19 **561**±24 **4.3b 22 7-147**
NEIC IX 12 16 34 28.8 17.82S 178.10W 600 4.5b **¶97ix1845**
EIDC IX 12 16 34 29.2 17.6S 178.4W 554 3.5b
NEIC Less reliable solution.
ISC IX 12 17 05 17.6±.80 **17.6S**±.21 **178.8W**±.19 **500 3.3b 10 38-147**
NEIC IX 12 17 05 17.3 17.59S 178.76W 500 **¶97ix1849**
EIDC IX 12 17 05 20.3 17.5S 178.8W 519 2.9b
NEIC Poor solution.
ISC IX 13 02 14 33.2±.87 **16.2S**±.49 **176.6W**±.26 **33 4.3b 9 5-47**
EIDC IX 13 02 14 30.9 16.1S 176.7W 0 4.4b **¶97ix1897**
EIDC LO CONF
ISC IX 13 04 53 29±1.8 **15.1S**±.59 **179.2W**±.45 **400 3.8b 9 39-145**
EIDC IX 13 04 53 25.0 14.9S 179.1W 339 3.5b **¶97ix1919**
NEIC IX 13 04 53 29.1 15.13S 179.15W 400 4.0b
NEIC Poor solution.
ISC IX 13 05 12 10.7±.83 **15.1S**±.24 **177.7W**±.21 **200 3.3b 11 37-145**
EIDC IX 13 05 12 43.7 15.2S 178.2W 530 2.9b **¶97ix1922**
ISC IX 13 22 50 41±2.3 **18.2S**±.35 **177.8W**±.44 **500 4.0b 15 30-148**
NEIC IX 13 22 50 40.7 18.26S 177.84W 500 4.1b **¶97ix2046**
EIDC IX 13 22 50 52.9 18.5S 178.0W 632 3.4b
NEIC Poor solution.
EIDC IX 14 10 45 51.0 17.3S 177.1W 0 3.4b ¶97ix2109
ISC IX 14 14 19 00±1.9 **20.86S**±.098 **178.98W**±.096 **630**±26 **4.1b 80 14-165**
EIDC IX 14 14 19 00.8 20.8S 179.0W 616 3.6b **¶97ix2133**
NEIC IX 14 14 19 02.2 20.83S 179.04W 650 4.0b
ISC IX 15 03 49 52±1.1 **17.8S**±.12 **178.67W**±.089 **574**±15 **4.5b 68 8-154**
NEIC IX 15 03 49 50.0 17.74S 178.66W 550 4.5b **¶97ix2199**
EIDC IX 15 03 49 53.8 17.7S 178.6W 582 4.0b
ISC IX 15 09 18 09.4±.63 **20.1S**±.20 **178.0W**±.15 **500 3.7b 16 34-150**
EIDC IX 15 09 18 09.0 20.0S 178.0W 482 3.3b **¶97ix2220**
NEIC IX 15 09 18 09.3 20.05S 178.00W 500 3.9b
NEIC Less reliable solution.
EIDC IX 15 10 49 21.3 18.7S 177.6W 0 3.5b ¶97ix2231
EIDC LO CONF Location
EIDC IX 15 17 30 13.9 21.5S 176.3W 0 4.1b ¶97ix2267
EIDC LO CONF Location
EIDC IX 15 17 33 43.4 19.6S 179.6W 0 4.1b ¶97ix2268
EIDC LO CONF Location
ISC IX 16 19 44 55±1.7 **17.4S**±.64 **177.8W**±.43 **33 3.6b 5 39-85**
EIDC IX 16 19 44 50.9 17.3S 177.7W 0 3.6b **¶97ix2423**
ISC IX 17 15 19 22±1.4 **16.6S**±.82 **178.3W**±.44 **33 4.2b 8 39-86**
EIDC IX 17 15 19 18.9 16.4S 178.3W 0 4.2b **¶97ix2526**
ISC IX 18 09 22 53±4.5 **16.2S**±.14 **177.7W**±.14 **473**±51 **4.1b 32 16-149**
EIDC IX 18 09 22 50.8 16.0S 177.7W 434 3.7b **¶97ix2639**
NEIC IX 18 09 22 51.2 16.02S 177.74W 450 4.2b
NEIC Less reliable solution.
EIDC IX 18 13 00 49.4 18.7S 179.5W 0 3.8b ¶97ix2659
ISC IX 18 23 24 19±3.0 **21.0S**±.21 **178.8W**±.16 **612**±42 **3.7b 15 14-150**
EIDC IX 18 23 23 57.6 19.9S 178.7W 337 3.4b **¶97ix2725**
ISC IX 18 23 36 22±1.5 **14.4S**±.56 **177.2W**±.39 **33 4.2b 7 41-83**
EIDC IX 18 23 36 18.7 14.4S 177.0W 0 4.1b **¶97ix2728**
ISC IX 19 03 07 42±2.9 **16.8S**±.50 **178.7W**±.55 **466 3.9b 9 39-146**
EIDC IX 19 03 07 42.6 16.7S 178.6W 466 3.6b **¶97ix2746**
EIDC IX 19 22 10 21.7 19.5S 178.3W 0 3.7b ¶97ix2856
EIDC LO CONF Location
EIDC IX 20 04 15 18.7 21.5S 177.8W 0 3.9b ¶97ix2895
EIDC LO CONF Location
ISC IX 20 09 35 47±1.1 **18.08S**±.071 **178.34W**±.062 **535**±14 **4.5b 139 8-158**
BJI IX 20 09 35 43.7 17.93S 177.73W 524 4.7b **¶97ix2924**
NEIC IX 20 09 35 44.0 17.95S 178.35W 502 4.6b
EIDC IX 20 09 35 46.8 18.0S 178.3W 527 4.0b
ISC IX 20 20 18 21±1.2 **18.6S**±.36 **175.9E**±.24 **33 3.9b 11 34-148**
EIDC IX 20 20 18 16.8 18.6S 176.0E 0 4.0b **¶97ix3001**
ISC IX 20 22 14 13.3±.27 **16.35S**±.070 **177.57W**±.066 **33 4.8b,5.0s 207 6-153**
EIDC IX 20 22 14 09.1 16.6S 177.3W 0 4.8b,3.9L **¶97ix3007**
NEIC IX 20 22 14 13.3 16.38S 177.58W 33 4.9b,5.0s
BJI IX 20 22 14 15.3 16.40S 177.60W 33 5.2b,5.2s
HRVD IX 20 22 14 16.5±.1 16.33S±.01 177.33W±.01 19±1.2
NEIC Mw5.6(HRV), Less reliable solution.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1$2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.18±.15; $M_{\theta\theta}$−2.17±.21; $M_{\phi\phi}$2.35±.19; $M_{r\theta}$0.26±.42; $M_{r\phi}$0.69±.70; $M_{\theta\phi}$0.88±.18. Principal Axes: T 2.70,Plg14°,Azm281°; N −0.36, Plg75°,Azm86°; P −2.34,Plg4°,Azm190°. Best double couple: $M_0$2.5×10^{17}Nm, NP1:ϕ_S325°, δ77°,λ173°. NP2:ϕ_S56°,δ83°,λ13°.
ISC IX 21 07 40 40±1.1 **15.4S**±.34 **178.2W**±.20 **33 4.2b 7 40-93**
EIDC IX 21 07 40 36.2 15.4S 178.1W 0 4.3b **¶97ix3060**
NEIC IX 21 07 40 39.9 15.42S 178.23W 33 4.1b

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC		Poor solution.						
EIDC	**IX**	**21 09 13 13.4**	**17.3S**	**176.8E**	**0**	**3.9b**		**¶97ix3072**
ISC	**IX**	**21 09 22 28**±1.2	**17.9S**±.36	**178.3W**±.22	**450**	**3.6b**	**17**	**32-148**
NEIC	IX	21 09 22 28.1	17.93S	178.26W	450	3.5b		**¶97ix3075**
EIDC	IX	21 09 22 38.5	18.1S	178.3W	561	3.1b		
NEIC		Less reliable solution.						
EIDC	**IX**	**22 11 04 54.5**	**21.7S**	**176.7W**	**0**	**3.8b**		**¶97ix3269**
EIDC		LO CONF Location						
ISC	**IX**	**22 14 31 13**±4.4	**18.1S**±.18	**178.5W**±.16	**560**±56	**4.1b**	**19**	**15-108**
EIDC	IX	22 14 30 18.8	16.7S	178.2W	0	4.0b		**¶97ix3294**
NEIC	IX	22 14 31 08.4	17.81S	178.49W	500	4.1b		
NEIC		Less reliable solution.						
ISC	**IX**	**23 03 25 49**±4.9	**21.2S**±.46	**178.4W**±.33	**523**±54	**3.8b**	**19**	**14-151**
EIDC	IX	23 03 25 40.7	21.0S	178.1W	419	3.5b		**¶97ix3368**
NEIC	IX	23 03 25 46.5	21.43S	178.22W	500	4.0b		
NEIC		Poor solution.						
ISC	**IX**	**23 06 19 14**±1.0	**19.07S**±.083	**177.79W**±.087	**513**±14	**4.6b**	**53**	**8-149**
EIDC	IX	23 06 19 16.1	19.0S	177.8W	522	3.7b		**¶97ix3384**
NEIC	IX	23 06 19 17.1	19.06S	177.91W	550	4.8b		
NEIC		Less reliable solution.						
EIDC	**IX**	**23 17 05 59.3**	**18.0S**	**178.4W**	**0**	**4.1b**		**¶97ix3457**
EIDC		LO CONF Location						
ISC	**IX**	**24 01 58 10**±2.8	**17.6S**±.42	**179.1W**±.31	**663**±36	**4.2b**	**20**	**14-147**
EIDC	IX	24 01 57 56.7	17.2S	178.7W	478	3.7b		**¶97ix3510**
NEIC	IX	24 01 58 04.6	17.90S	178.62W	600	4.5b		
NEIC		Poor solution.						
EIDC	**IX**	**24 02 06 36.4**	**16.7S**	**178.5W**	**0**	**4.3b**		**¶97ix3511**
EIDC		LO CONF Location						
ISC	**IX**	**24 03 27 40**±5.5	**18.8S**±.15	**178.2W**±.18	**473**±61	**4.2b**	**26**	**15-159**
EIDC	IX	24 03 27 37.2	18.8S	178.0W	428	3.8b		**¶97ix3517**
NEIC	IX	24 03 27 37.8	18.82S	178.07W	450	4.3b		
NEIC		Less reliable solution.						
EIDC	**IX**	**24 06 43 54.7**	**20.9S**	**176.5W**	**0**	**3.6b**		**¶97ix3538**
ISC	**IX**	**24 07 34 12**±1.3	**20.5S**±.24	**176.8W**±.21	**350**	**3.9b**	**23**	**16-151**
EIDC	IX	24 07 33 49.5	20.5S	176.2W	137	4.0b		**¶97ix3542**
NEIC	IX	24 07 34 12.3	20.64S	176.80W	350	4.0b		
NEIC		Poor solution.						
ISC	**IX**	**24 09 14 51**±1.7	**19.39S**±.062	**177.80W**±.061	**394**±18	**4.6b**	**136**	**10-166**
EIDC	IX	24 09 14 50.3	19.2S	178.0W	360	4.3b		**¶97ix3556**
BJI	IX	24 09 14 50.7	19.40S	177.80W	385	4.5b		
NEIC	IX	24 09 14 50.7	19.36S	177.81W	386	4.6b		
ISC	**IX**	**24 12 27 48**±1.4	**17.6S**±.63	**178.7W**±.35	**550**	**3.9b**	**10**	**35-147**
EIDC	IX	24 12 27 52.3	17.6S	178.7W	588	3.3b		**¶97ix3579**
EIDC	**IX**	**24 15 10 35.0**	**14.7S**	**179.7E**	**0**	**3.6b**		**¶97ix3594**
EIDC		LO CONF Location						
EIDC	**IX**	**24 18 16 42.1**	**15.2S**	**176.1W**	**0**	**4.0b**		**¶97ix3614**
EIDC		LO CONF Location						
EIDC	**IX**	**24 20 54 07.8**	**21.5S**	**177.9W**	**0**	**3.6b**		**¶97ix3633**
EIDC		LO CONF Location						
ISC	**IX**	**25 04 37 54.5**±.88	**16.5S**±.25	**178.3W**±.20	**33**	**3.7b**	**7**	**45-86**
EIDC	IX	25 04 37 51.0	16.4S	178.3W	0	3.7b		**¶97ix3676**
ISC	**IX**	**25 10 54 15**±3.6	**20.8S**±.24	**179.4W**±.22	**656**±46	**4.0b**	**17**	**13-150**
NEIC	IX	25 10 54 10.9	20.74S	179.24W	600	4.1b		**¶97ix3729**
EIDC	IX	25 10 54 12.5	20.7S	179.3W	603	3.4b		
NEIC		Less reliable solution.						
ISC	**IX**	**26 07 27 31**±4.9	**17.6S**±.20	**175.4E**±.18	**36**±43	**4.3b**,3.7s	**16**	**9-145**
EIDC	IX	26 07 27 27.3	17.7S	175.5E	0	4.2b,3.8s		**¶97ix3909**
NEIC	IX	26 07 27 30.8	17.60S	175.35E	33	4.6b		
NEIC		Less reliable solution.						
ISC	**X**	**01 06 31 21**±2.2	**18.2S**±.72	**177.4W**±.50	**250**	**3.5b**	**8**	**39-148**
EIDC	X	01 06 31 29.9	18.4S	177.3W	333	3.3b		**¶97x0041**
ISC	**X**	**02 04 52 18**±3.0	**20.0S**±.64	**177.8W**±.54	**450**	**3.9b**	**12**	**33-145**
EIDC	X	02 04 52 18.1	20.4S	177.4W	454	3.5b		**¶97x0209**
ISC	**X**	**02 09 59 21**±1.7	**17.5S**±.60	**179.1W**±.39	**600**	**3.7b**	**8**	**33-86**
EIDC	X	02 09 59 23.9	17.6S	179.0W	620	3.0b		**¶97x0257**
ISC	**X**	**02 12 53 59**±1.4	**17.6S**±.30	**178.3W**±.18	**462**±19	**4.0b**	**22**	**7-147**
EIDC	X	02 12 54 01.5	17.7S	178.2W	477	3.5b		**¶97x0288**
NEIC	X	02 12 54 02.4	17.69S	178.30W	500	4.0b		
NEIC		Less reliable solution.						
ISC	**X**	**03 16 29 19**±1.0	**17.4S**±.69	**178.6W**±.34	**200**	**4.0b**	**10**	**7-147**
NEIC	X	03 16 29 18.9	17.47S	178.58W	200	4.3b		**¶97x0492**
EIDC	X	03 16 29 20.4	17.4S	178.5W	203	4.0b		
NEIC		Poor solution.						
ISC	**X**	**03 18 00 36**±2.4	**20.1S**±.56	**178.3W**±.38	**400**	**3.7b**	**8**	**9-90**
EIDC	X	03 18 00 38.4	20.8S	177.2W	488	3.2b		**¶97x0501**
ISC	**X**	**05 20 45 04**±1.3	**18.6S**±.23	**178.4W**±.20	**500**	**4.1b**	**18**	**15-151**
EIDC	X	05 20 44 50.8	18.7S	177.9W	358	3.5b		**¶97x0931**
NEIC	X	05 20 45 03.2	18.65S	178.32W	500	4.4b		
NEIC		Less reliable solution.						
ISC	**X**	**06 05 31 38**±1.2	**19.94S**±.069	**177.96W**±.067	**526**±15	**4.7b**	**134**	**8-165**
BJI	X	06 05 31 39.9	20.00S	177.90W	550	4.9b		**¶97x1000**
NEIC	X	06 05 31 39.9	20.00S	177.94W	550	4.7b		
EIDC	X	06 05 31 40.1	20.0S	177.8W	543	4.2b		
EIDC	**X**	**06 07 41 57.5**	**20.8S**	**177.2W**	**0**	**3.6b**		**¶97x1016**
EIDC		LO CONF						
ISC	**X**	**06 18 04 52**±2.9	**16.7S**±.61	**178.4W**±.57	**246**	**3.9b**	**10**	**32-146**
EIDC	X	06 18 04 51.8	17.2S	178.0W	246	3.6b		**¶97x1092**
NEIC	X	06 18 04 53.8	16.45S	178.60W	250	3.9b		
NEIC		Poor solution.						
ISC	**X**	**06 19 45 47**±1.6	**19.7S**±.65	**178.5W**±.39	**600**	**3.6b**	**24**	**38-153**
EIDC	X	06 19 45 41.5	19.7S	178.2W	525	3.2b		**¶97x1110**
NEIC	X	06 19 45 46.3	19.77S	178.41W	600	3.6b		
NEIC		Poor solution.						
ISC	**X**	**07 04 45 44**±1.8	**16.4S**±.55	**178.7W**±.39	**33**	**4.0b**	**8**	**39-86**
EIDC	X	07 04 45 40.3	16.2S	178.7W	0	3.9b		**¶97x1183**
EIDC	**X**	**07 12 03 04.6**	**18.9S**	**176.1E**	**0**	**3.8b**,3.5s		**¶97x1245**
ISC	**X**	**07 19 30 25**±1.3	**15.3S**±.49	**177.9W**±.30	**500**	**4.0b**	**11**	**34-145**
EIDC	X	07 19 30 22.9	15.4S	177.6W	461	3.2b		**¶97x1288**
NEIC	X	07 19 30 25.0	15.53S	177.85W	500	3.7b		
NEIC		Poor solution.						
ISC	**X**	**08 16 11 56**±4.3	**17.7S**±.36	**178.9W**±.74	**600**	**4.4b**	**19**	**31-150**
NEIC	X	08 16 11 53.3	16.89S	179.92E	472	4.5b		**¶97x1437**
EIDC	X	08 16 11 54.9	16.9S	180.0E	483	3.7b		
NEIC		Poor solution.						
ISC	**X**	**09 06 50 05**±1.9	**16.6S**±.56	**178.1W**±.39	**33**	**4.3b**	**8**	**39-86**
EIDC	X	09 06 50 01.1	16.5S	178.1W	0	4.2b		**¶97x1542**
ISC	**X**	**09 20 08 43**±4.6	**17.4S**±.56	**178.9W**±.36	**585**±60	**4.1b**	**11**	**15-147**
NEIC	X	09 20 08 40.0	17.40S	178.80W	550	4.5b		**¶97x1634**
EIDC	X	09 20 08 42.2	17.3S	178.8W	560	3.3b		
NEIC		Poor solution.						
ISC	**X**	**10 08 13 15**±1.2	**19.7S**±.53	**176.3W**±.32	**33**	**4.0b**,3.5s	**15**	**16-128**
EIDC	X	10 08 13 12.1	18.9S	176.6W	0	4.0b,3.5s		**¶97x1721**
EIDC	**X**	**11 07 41 34.0**	**16.0S**	**178.7W**	**0**	**3.3b**		**¶97x1862**
ISC	**X**	**12 00 46 04**±3.1	**19.5S**±.52	**178.5W**±.57	**24**	**3.9b**	**7**	**38-149**
EIDC	X	12 00 46 03.0	19.8S	178.0W	24	3.8b		**¶97x1966**
EIDC	**X**	**13 22 51 41.7**	**17.8S**	**176.4W**	**0**	**4.4b**		**¶97x2297**
EIDC	**X**	**14 04 10 58.3**	**20.4S**	**177.9W**	**0**	**3.7b**		**¶97x2333**
ISC	**X**	**14 10 17 14**±5.5	**21.7S**±.12	**176.5W**±.15	**144**±50	**4.9b**	**92**	**9-161**
EIDC	X	14 10 17 06.0	21.6S	176.4W	62	4.8b,5.5L		**¶97x2374**
NEIC	X	14 10 17 14.6	21.71S	176.53W	150	4.9b		
NEIC		Less reliable solution.						
ISC	**X**	**14 10 38 06**±4.8	**21.9S**±.11	**176.4W**±.15	**111**±42	**4.7b**	**35**	**16-165**
EIDC	X	14 10 37 53.8	21.7S	176.3W	0	4.7b		**¶97x2378**
NEIC	X	14 10 38 10.9	21.92S	176.55W	150	4.7b		
NEIC		Less reliable solution.						
ISC	**X**	**14 11 00 18**±6.2	**21.5S**±.40	**176.8W**±.32	**166**±51	**4.1b**	**14**	**16-149**
EIDC	X	14 11 00 13.8	21.4S	176.7W	117	3.8b		**¶97x2383**
NEIC	X	14 11 00 15.7	21.51S	176.71W	150	4.3b		
NEIC		Poor solution.						
ISC	**X**	**14 11 04 20**±2.3	**21.9S**±.47	**177.3W**±.38	**350**	**3.7b**	**11**	**15-91**
NEIC	X	14 11 04 01.9	21.09S	177.49W	150	4.4b		**¶97x2385**
EIDC	X	14 11 04 05.4	21.0S	177.5W	168	3.7b		
NEIC		Poor solution.						
ISC	**X**	**14 11 27 18**±1.4	**19.5S**±.49	**178.0W**±.28	**500**	**3.9b**	**13**	**34-149**
NEIC	X	14 11 27 17.9	19.51S	177.97W	500	4.2b		**¶97x2389**
EIDC	X	14 11 27 19.3	19.6S	177.9W	505	3.4b		
NEIC		Poor solution.						
ISC	**X**	**14 13 12 12**±3.3	**21.6S**±.71	**176.8W**±.57	**150**	**3.8b**	**7**	**35-89**
EIDC	X	14 13 11 53.7	21.8S	176.3W	0	4.0b		**¶97x2411**
NEIC	X	14 13 12 11.5	21.62S	176.74W	150	4.0b		
NEIC		Poor solution.						
ISC	**X**	**14 14 08 35**±5.0	**21.8S**±.13	**176.6W**±.13	**124**±43	**4.7b**	**68**	**16-161**
NEIC	X	14 14 08 37.5	21.71S	176.70W	150	4.7b		**¶97x2421**
EIDC	X	14 14 08 45.6	21.7S	176.7W	209	4.2b		
NEIC		Less reliable solution.						
ISC	**X**	**14 15 48 47**±2.3	**21.8S**±.10	**176.5W**±.11	**103**±23	**4.8b**	**48**	**9-152**
EIDC	X	14 15 48 51.7	21.8S	176.5W	135	4.4b		**¶97x2432**
NEIC	X	14 15 48 51.8	21.82S	176.59W	150	4.7b		
NEIC		Less reliable solution.						
ISC	**X**	**14 17 46 54**±2.7	**21.90S**±.063	**176.73W**±.066	**195**±25	**4.7b**	**169**	**15-163**
EIDC	X	14 17 46 51.0	21.7S	176.7W	158	4.4b		**¶97x2461**
BJI	X	14 17 46 51.4	21.74S	177.09W	166	4.5b		
NEIC	X	14 17 46 51.5	21.77S	176.76W	175	4.9b		
ISC	**X**	**14 19 32 09**±5.1	**22.0S**±.20	**176.9W**±.19	**197**±44	**4.1b**	**21**	**15-152**
NEIC	X	14 19 32 03.7	21.94S	176.80W	150	4.5b		**¶97x2476**
EIDC	X	14 19 32 04.3	21.9S	176.8W	140	3.9b		
NEIC		Less reliable solution.						
ISC	**X**	**14 21 17 33**±1.8	**21.82S**±.051	**176.59W**±.064	**107**±17	**5.2b**	**209**	**7-165**
EIDC	X	14 21 17 34.3	21.9S	176.5W	107	4.9b		**¶97x2496**
BJI	X	14 21 17 39.5	22.50S	176.70W	184	4.9b		
NEIC	X	14 21 17 40.3	21.77S	176.72W	169	5.2b		
ISC	**X**	**14 22 13 19**±1.1	**21.0S**±.34	**177.1W**±.20	**33**	**4.2b**	**12**	**15-91**
EIDC	X	14 22 13 15.2	20.8S	177.0W	0	4.0b		**¶97x2507**
ISC	**X**	**15 02 07 29**±5.4	**20.3S**±.52	**177.7W**±.83	**100**	**4.5b**	**12**	**35-150**
EIDC	X	15 02 07 18.6	19.9S	177.8W	0	4.5b		**¶97x2535**
NEIC	X	15 02 07 28.9	19.94S	177.76W	100	4.4b		
NEIC		Poor solution.						
ISC	**X**	**15 02 24 00**±1.5	**14.9S**±.32	**176.1W**±.20	**332**±19	**3.7b**	**13**	**4-145**
NEIC	X	15 02 24 00.3	14.92S	176.08W	333	3.8b		**¶97x2541**
EIDC	X	15 02 24 01.5	14.9S	176.0W	330	3.5b		
NEIC		Less reliable solution.						
ISC	**X**	**15 09 06 50**±1.2	**21.9S**±.31	**177.1W**±.17	**300**	**4.1b**	**17**	**15-158**
EIDC	X	15 09 06 33.8	21.9S	176.8W	137	4.0b		**¶97x2594**
NEIC	X	15 09 06 39.5	21.91S	176.97W	200	4.3b		
NEIC		Poor solution.						
ISC	**X**	**15 10 42 27**±1.7	**13.9S**±.63	**177.5W**±.44	**33**	**3.6b**	**5**	**41-83**
EIDC	X	15 10 42 23.7	13.8S	177.6W	0	3.7b		**¶97x2608**
ISC	**X**	**15 12 39 08**±1.4	**21.6S**±.41	**176.8W**±.28	**33**	**4.1b**	**13**	**30-92**
EIDC	X	15 12 39 03.7	21.9S	176.6W	0	3.9b		**¶97x2635**
EIDC	**X**	**15 21 09 27.9**	**16.7S**	**173.8E**	**0**	**3.8b**		**¶97x2721**
ISC	**X**	**16 03 54 11**±1.8	**17.1S**±.71	**178.9W**±.41	**400**	**3.4b**	**9**	**44-147**
EIDC	X	16 03 54 17.0	17.2S	178.9W	454	3.0b		**¶97x2780**
NEIC	X	16 03 54 23.8	17.41S	179.06W	550	4.0b		
NEIC		Poor solution.						
ISC	**X**	**16 14 40 39**±5.0	**17.5S**±.54	**178.9W**±.30	**546**±63	**4.0b**	**11**	**15-147**
NEIC	X	16 14 40 31.8	17.23S	178.89W	450	4.2b		**¶97x2852**
EIDC	X	16 14 40 33.9	17.4S	178.7W	469	3.2b		
NEIC		Poor solution.						
ISC	**X**	**16 16 08 32.7**±.89	**21.6S**±.29	**176.8W**±.19	**200**	**3.7b**	**15**	**35-152**
NEIC	X	16 16 08 32.6	21.62S	176.78W	200	3.8b		**¶97x2857**
EIDC	X	16 16 08 35.5	21.6S	176.8W	213	3.6b		
NEIC		Poor solution.						
ISC	**X**	**16 23 12 03.2**±.78	**21.7S**±.27	**176.5W**±.15	**33**	**4.3b**	**14**	**30-158**
EIDC	X	16 23 11 59.4	21.8S	176.4W	0	4.1b		**¶97x2895**
ISC	**X**	**17 00 04 03**±4.0	**22.0S**±.13	**176.7W**±.11	**255**±39	**4.1b**	**46**	**16-152**
EIDC	X	17 00 03 34.3	21.7S	176.3W	0	4.5b		**¶97x2903**
NEIC	X	17 00 04 08.0	21.71S	176.92W	300	4.3b		
NEIC		Less reliable solution.						
ISC	**X**	**17 10 59 31**±2.7	**20.9S**±.23	**176.8W**±.15	**155**±22	**4.1b**	**48**	**8-153**
NEIC	X	17 10 59 29.5	21.00S	176.77W	150	4.2b		**¶97x2967**
EIDC	X	17 10 59 31.3	21.1S	176.7W	155	4.0b		
NEIC		Less reliable solution.						
ISC	**X**	**17 15 02 00.4**±.83	**21.02S**±.045	**178.79W**±.035	**583**±11	**5.3b**	**572**	**8-167**
EIDC	X	17 15 01 58.6	20.9S	178.6W	552	4.9b		**¶97x3012**
BJI	X	17 15 02 00.2	20.60S	178.46W	581	5.3b		
NEIC	X	17 15 02 00.4	20.89S	178.84W	579	5.3b		
HRVD	X	17 15 02 05.6±.1	20.94S±.01	178.58W±.01	589±.8			
MOS	X	17 15 02 10.1	20.5S	179.6W	659	5.5b		

NEIC Mw6.0(GS), Me5.1(GS).

NEIC Mw 6.0 (HRV).

NEIC Radiated energy from the P−wave first−motion solution: $1.0\pm0.2\times10^{12}$Nm/9

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S45°,δ85°,λ−90°. NP2:ϕ_S225°,δ5°,λ−90°. Principal axes: T Plg40°,Azm135°; P Plg50°,Azm315°. Depth from broadband displacement seismograms.

NEIC Moment tensor solution: s18, scale 10^{17}Nm; M_{rr}−3.00; $M_{\theta\theta}$3.30; $M_{\phi\phi}$−0.30; $M_{r\theta}$−8.40; $M_{r\phi}$−9.10; $M_{\theta\phi}$−0.20. Depth 580km; Principal axes: T 11.9,Plg39°,Azm143°; N 1.8,Plg8°, Azm46°; P −13.6,Plg49°,Azm306°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S285°,δ10°, λ−30°. NP2:ϕ_S45°,δ85°,λ−98°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c117; Mantle waves: s21,c25; Half duration: 2s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.41±.10;

$M_{\theta\theta}$1.56±.14; $M_{\phi\phi}$−0.15±.16; $M_{r\theta}$−7.90±.13; $M_{r\phi}$−8.97±.13; $M_{\theta\phi}$−0.09±.14. Principal Axes: T 11.6,Plg43°,Azm136°; N 0.9,Plg4°,Azm42°; P −12.5,Plg47°,Azm308°. Best double couple: $M_0$1.2×10^{18}Nm, NP1:ϕ_S282°,δ5°,λ−30°. NP2:ϕ_S42°,δ88°,λ−94°.

ISC	**X**	**17 20 41 53**±1.4	**19.2S**±.54	**179.0W**±.32	**350**	**3.3b**	**10 38-166**
EIDC	X	17 20 41 56.7	18.9S	179.2W	367	3.2b	¶97x3058
ISC	**X**	**18 13 45 12**±1.4	**17.2S**±.58	**178.7W**±.36	**500**	**3.5b**	**9 39-147**
NEIC	X	18 13 45 12.0	17.22S	178.73W	500	3.9b	¶97x3168
EIDC	X	18 13 45 21.1	17.4S	178.8W	601	3.0b	
NEIC		Poor solution.					
EIDC	**X**	**18 13 53 52.0**	**21.4S**	**176.8W**	**0**	**3.5b**	¶97x3170
EIDC		LO CONF					
ISC	**X**	**19 19 49 43.9**±.88	**17.7S**±.21	**178.3W**±.17	**600**	**3.9b**	**29 15-159**
NEIC	X	19 19 49 44.5	17.68S	178.48W	600	4.1b	¶97x3386
EIDC	X	19 19 49 45.5	17.7S	178.3W	606	3.3b	
NEIC		Poor solution.					
ISC	**X**	**20 06 00 07**±4.2	**20.2S**±.21	**178.2W**±.24	**583**±50	**4.1b**	**15 14-150**
EIDC	X	20 05 59 59.5	20.3S	177.8W	490	3.6b	¶97x3448
NEIC	X	20 06 00 00.1	20.17S	177.99W	500	4.3b	
NEIC		Less reliable solution.					
ISC	**X**	**20 07 55 08.7**±.63	**17.5S**±.22	**176.7W**±.15	**33**	**4.3b**	**20 6-148**
EIDC	X	20 07 55 05.1	17.2S	176.7W	0	4.2b,3.8L	¶97x3463
NEIC	X	20 07 55 08.2	17.52S	176.56W	33	4.2b	
NEIC		Less reliable solution.					
ISC	**X**	**20 09 28 28**±1.5	**21.7S**±.31	**176.5W**±.27	**33**	**4.2b**	**8 39-89**
EIDC	X	20 09 28 24.1	21.7S	176.3W	0	4.0b	¶97x3472
EIDC	**X**	**20 14 14 47.7**	**20.7S**	**176.1W**	**0**	**3.9b**	¶97x3515
ISC	**X**	**20 16 12 55**±4.5	**21.9S**±.11	**176.6W**±.13	**124**±39	**4.4b**	**38 16-152**
EIDC	X	20 16 12 56.5	21.9S	176.5W	128	4.1b	¶97x3526
NEIC	X	20 16 13 03.7	21.89S	176.83W	200	4.3b	
NEIC		Less reliable solution.					
ISC	**X**	**20 18 21 41**±1.9	**21.92S**±.075	**176.7W**±.10	**89**±20	**4.4b**	**33 9-152**
NEIC	X	20 18 21 42.4	21.77S	176.74W	100	4.5b	¶97x3540
EIDC	X	20 18 21 45.3	21.8S	176.6W	117	4.3b	
NEIC		Less reliable solution.					
ISC	**X**	**20 22 33 33.7**±.92	**22.0S**±.23	**176.7W**±.16	**152**	**4.0b**	**17 32-152**
EIDC	X	20 22 33 35.0	22.0S	176.5W	152	3.6b	¶97x3565
NEIC	X	20 22 33 38.8	22.09S	176.76W	200	4.1b	
NEIC		Poor solution.					
ISC	**X**	**21 04 52 40.7**±.82	**21.8S**±.24	**176.9W**±.13	**300**	**3.9b**	**13 16-130**
EIDC	X	21 04 52 07.4	21.8S	176.3W	0	4.4b	¶97x3607
NEIC	X	21 04 52 30.0	21.77S	176.67W	200	4.1b	
NEIC		Less reliable solution.					
ISC	**X**	**21 07 34 49**±1.2	**19.5S**±.38	**177.4W**±.22	**400**	**4.1b**	**14 15-90**
NEIC	X	21 07 34 39.2	19.44S	177.29W	300	4.2b	¶97x3622
EIDC	X	21 07 34 44.5	19.3S	177.3W	335	3.8b	
NEIC		Poor solution.					
ISC	**X**	**22 02 58 53**±2.3	**14.6S**±.83	**177.4E**±.71	**33**	**4.1b**,3.3s	**5 37-143**
EIDC	X	22 02 58 49.9	14.6S	177.4E	0	4.1b,3.8s	¶97x3742
ISC		Poorly determined					
EIDC	**X**	**22 09 24 26.6**	**19.3S**	**176.8W**	**0**	3.8b	¶97x3783
ISC	**X**	**22 11 26 45**±1.4	**17.7S**±.34	**178.2W**±.26	**550**	**3.9b**	**11 39-147**
EIDC	X	22 11 26 44.7	17.7S	178.1W	539	3.3b	¶97x3801
NEIC	X	22 11 26 44.8	17.67S	178.22W	550	3.9b	
NEIC		Poor solution.					
EIDC	**X**	**22 13 17 46.3**	**19.3S**	**179.9W**	**0**	**3.6b**	¶97x3819
EIDC		LO CONF Location					
ISC	**X**	**22 14 13 05.4**±.76	**21.1S**±.16	**176.8W**±.13	**224**	**4.0b**	**24 16-151**
NEIC	X	22 14 13 05.2	21.16S	176.73W	224	4.4b	¶97x3831
EIDC	X	22 14 13 07.9	21.3S	176.7W	239	3.8b	
NEIC		Less reliable solution.					
ISC	**X**	**22 16 58 52**±1.5	**15.9S**±.58	**178.5W**±.35	**33**	**4.4b**	**8 40-146**
EIDC	X	22 16 58 49.0	15.8S	178.6W	0	4.2b	¶97x3853
ISC	**X**	**23 13 05 21**±1.4	**20.9S**±.42	**179.6W**±.30	**33**	**4.0b**	**10 29-80**
EIDC	X	23 13 04 37.5	20.0S	174.3W	0	4.0b	¶97x4002
EIDC		LO CONF Location					
ISC	**X**	**23 16 09 14**±1.2	**17.6S**±.12	**178.80W**±.084	**518**±15	**4.4b**	**107 8-153**
EIDC	X	23 16 09 14.9	17.7S	178.7W	525	3.9b	¶97x4024
NEIC	X	23 16 09 16.2	17.67S	178.85W	550	4.5b	
ISC	**X**	**23 22 32 38**±2.4	**17.5S**±.90	**177.7W**±.52	**33**	**3.4b**	**4 45-85**
EIDC	X	23 22 32 34.8	17.4S	177.6W	0	3.4b	¶97x4076
ISC		Poorly determined					
ISC	**X**	**24 09 14 21**±1.4	**16.4S**±.59	**178.5W**±.39	**33**	**3.9b**	**6 39-86**
EIDC	X	24 09 14 17.0	16.4S	178.4W	0	3.9b	¶97x4136
ISC	**X**	**24 13 16 48**±3.9	**18.0S**±.90	**178.5W**±.80	**33**	**3.4b**	**5 38-86**
EIDC	X	24 13 16 44.5	17.8S	178.6W	0	3.5b	¶97x4171
ISC	**X**	**24 15 39 19**±1.7	**16.3S**±.62	**178.8W**±.43	**33**	**3.6b**	**5 39-85**
EIDC	X	24 15 39 15.9	16.3S	178.7W	0	3.6b	¶97x4192
ISC	**X**	**24 20 54 03**±1.4	**21.0S**±.19	**177.2W**±.22	**33**	**4.4b**	**10 21-89**
EIDC	X	24 20 53 59.3	20.9S	177.2W	0	4.3b	¶97x4221
ISC	**X**	**25 05 18 29**±1.0	**17.70S**±.052	**178.84W**±.050	**513**±13	**5.0b**	**279 8-170**
EIDC	X	25 05 18 29.9	17.7S	178.8W	514	4.4b	¶97x4278
NEIC	X	25 05 18 30.1	17.65S	178.88W	531	5.0b	
BJI	X	25 05 18 31.1	17.34S	178.36W	544	5.0b	
ISC	**X**	**25 12 19 47**±4.0	**21.9S**±.10	**176.7W**±.13	**202**±36	**4.3b**	**55 9-161**
EIDC	X	25 12 19 39.6	21.7S	176.6W	122	4.4b	¶97x4321
NEIC	X	25 12 19 47.0	21.78S	176.79W	200	4.5b	
NEIC		Less reliable solution.					
ISC	**X**	**25 19 26 55**±4.0	**20.6S**±.13	**178.2W**±.16	**559**±49	**4.3b**	**72 29-154**
EIDC	X	25 19 26 57.0	20.5S	178.1W	562	3.8b	¶97x4363
BJI	X	25 19 26 58.6	20.60S	178.30W	600	4.4b	
NEIC	X	25 19 26 58.6	20.61S	178.27W	600	4.4b	
NEIC		Less reliable solution.					
ISC	**X**	**25 20 18 38.1**±.85	**17.6S**±.21	**178.5W**±.18	**600**	**3.9b**	**15 37-147**
EIDC	X	25 20 18 38.2	17.7S	178.4W	585	3.1b	¶97x4370
NEIC	X	25 20 18 38.6	17.59S	178.53W	600	4.3b	
NEIC		Poor solution.					
ISC	**X**	**26 01 18 46**±2.7	**18.5S**±.52	**177.4W**±.46	**400**	**3.3b**	**6 36-148**
EIDC	X	26 01 18 53.9	18.4S	177.5W	466	2.9b	¶97x4396
EIDC	**X**	**26 09 42 22.7**	**16.7S**	**179.8W**	**0**	**3.8b**	¶97x4444
EIDC		LO CONF Location					
ISC	**X**	**26 15 21 42**±1.4	**16.5S**±.66	**178.2W**±.33	**33**	**4.3b**	**7 40-86**
EIDC	X	26 15 21 38.1	16.5S	178.1W	0	4.1b	¶97x4486
ISC	**X**	**26 19 45 21**±2.3	**16.7S**±.74	**178.9W**±.42	**500**	**3.4b**	**22 44-150**
NEIC	X	26 19 45 22.6	16.35S	179.04W	500		¶97x4518
EIDC	X	26 19 45 26.5	16.9S	178.8W	557	3.1b	
NEIC		Poor solution.					
ISC	**X**	**26 23 30 06**±3.1	**17.7S**±.71	**178.5W**±.62	**600**	**4.1b**	**11 33-147**
EIDC	X	26 23 30 01.5	18.2S	177.9W	554	3.5b	¶97x4535
NEIC	X	26 23 30 06.5	17.58S	178.66W	600	4.3b	
NEIC		Poor solution.					
ISC	**X**	**27 11 35 43**±4.1	**20.4S**±.12	**176.3W**±.15	**171**±36	**4.2b**	**30 15-151**
NEIC	X	27 11 35 40.5	20.36S	176.29W	150	4.2b	¶97x4605
EIDC	X	27 11 35 44.8	20.5S	176.2W	177	4.0b	
NEIC		Less reliable solution.					
ISC	**X**	**28 04 26 55**±1.5	**19.1S**±.61	**177.9W**±.39	**33**	**3.6b**	**7 39-88**
EIDC	X	28 04 26 50.8	19.0S	177.8W	0	3.6b	¶97x4703
ISC	**X**	**28 08 30 39**±2.0	**19.1S**±.83	**178.5W**±.43	**33**	**3.8b**	**6 44-88**
EIDC	X	28 08 30 35.2	19.0S	178.4W	0	3.8b	¶97x4732
EIDC	**X**	**28 18 11 48.7**	**17.9S**	**175.5E**	**0**	**3.8b**	¶97x4797
EIDC	**X**	**28 18 27 09.9**	**16.0S**	**176.7W**	**0**	**3.8b**	¶97x4799
ISC	**X**	**29 00 03 29**±1.3	**15.6S**±.53	**176.5E**±.35	**33**	**4.0b,4.0s**	**12 36-146**
EIDC	X	29 00 03 25.5	15.5S	176.5E	0	4.0s,4.0b	¶97x4832
EIDC	**X**	**29 00 49 42.7**	**16.8S**	**174.0E**	**0**	**3.6s,3.9b**	¶97x4838
ISC	**X**	**29 03 18 55**±3.6	**16.4S**±.83	**179.0W**±.78	**33**	**4.5b**	**6 39-85**
EIDC	X	29 03 18 51.9	16.3S	178.9W	0	4.5b	¶97x4845
ISC	**X**	**29 06 15 17**±2.0	**21.74S**±.074	**176.7W**±.10	**101**±20	**4.8b**	**55 8-152**
EIDC	X	29 06 15 20.2	21.7S	176.6W	124	4.3b	¶97x4865
NEIC	X	29 06 15 21.4	21.54S	176.69W	150	4.7b	
NEIC		Less reliable solution.					
ISC	**X**	**29 07 22 42**±1.6	**16.4S**±.57	**177.5W**±.38	**33**	**4.0b**	**7 40-84**
EIDC	X	29 07 22 37.9	16.4S	177.4W	0	3.9b	¶97x4875
ISC	**X**	**29 08 07 33**±4.4	**19.3S**±.38	**178.1W**±.32	**671**±56	**4.0b**	**15 15-149**
NEIC	X	29 08 07 19.0	19.05S	177.78W	500	4.3b	¶97x4878
EIDC	X	29 08 07 22.4	19.0S	177.8W	524	3.3b	
NEIC		Poor solution.					
ISC	**X**	**29 08 16 33**±2.4	**19.0S**±.46	**177.8W**±.49	**500**	**3.8b**	**11 37-149**
NEIC	X	29 08 16 32.0	19.08S	177.65W	500	4.0b	¶97x4879
EIDC	X	29 08 16 32.0	19.1S	177.5W	488	3.3b	
NEIC		Poor solution.					
ISC	**X**	**29 09 15 20**±1.4	**20.0S**±.12	**177.8W**±.14	**519**±22	**3.8b**	**18 8-150**
NEIC	X	29 09 15 19.3	19.66S	178.00W	500	4.0b	¶97x4886
EIDC	X	29 09 15 23.6	19.3S	178.2W	536	3.2b	
NEIC		Poor solution.					
ISC	**X**	**29 13 22 25**±1.8	**17.51S**±.076	**179.04W**±.092	**557**±20	**5.0b**	**120 8-153**
NEIC	X	29 13 22 23.3	17.42S	179.06W	541	5.3b	¶97x4916
BJI	X	29 13 22 24.0	16.62S	178.99W	515	4.7b	
EIDC	X	29 13 22 24.6	17.3S	179.0W	540	4.0b	
ISC	**X**	**29 14 23 37**±2.3	**16.9S**±.88	**177.8W**±.51	**33**	**3.7b**	**4 45-85**
EIDC	X	29 14 23 33.1	16.9S	177.7W	0	3.6b	¶97x4922
ISC		Poorly determined					
ISC	**X**	**30 00 30 24**±5.7	**21.9S**±.39	**176.8W**±.31	**248**±48	**3.7b**	**20 16-152**
EIDC	X	30 00 29 56.8	21.4S	176.5W	0	4.0b	¶97x4967
NEIC	X	30 00 30 19.3	21.72S	176.76W	200	4.0b	
NEIC		Poor solution.					
ISC	**X**	**30 05 04 46**±5.6	**13.2S**±.23	**174.8E**±.18	**42**±50	**4.3b,4.3s**	**16 12-89**
EIDC	X	30 05 04 40.8	13.2S	174.9E	0	4.2b,4.4s	¶97x4993
NEIC	X	30 05 04 44.9	13.15S	174.79E	33	4.8b	
NEIC		Less reliable solution.					
EIDC	**X**	**30 22 19 33.3**	**17.7S**	**177.2W**	**0**	**3.7b**	¶97x5096
ISC	**X**	**31 00 27 06**±3.5	**13.9S**±.65	**175.4E**±.60	**33**	**4.2b**	**10 35-142**
EIDC	X	31 00 27 26.8	15.0S	176.0E	251	3.5b	¶97x5110
ISC	**X**	**31 08 07 44.6**±.34	**21.94S**±.072	**176.61W**±.078	**200**	**4.3b**	**46 16-152**
EIDC	X	31 08 07 39.5	21.7S	176.4W	142	4.2b	¶97x5157
NEIC	X	31 08 07 44.9	21.73S	176.69W	200	4.5b	
EIDC	**X**	**31 17 32 29.9**	**15.2S**	**179.1W**	**0**	**3.9b**	¶97x5211
ISC	**XI**	**01 09 32 47**±2.1	**21.01S**±.090	**179.2W**±.10	**621**±27	**4.7b**	**106 13-167**
EIDC	XI	01 09 32 45.1	21.0S	179.0W	593	4.1b	¶97xi0053
NEIC	XI	01 09 32 48.7	21.08S	179.24W	650	4.8b	
BJI	XI	01 09 32 52.8	20.13S	179.54W	650	4.6b	
ISC	**XI**	**01 18 57 14.8**±.83	**21.1S**±.23	**177.4W**±.18	**400**	**3.9b**	**36 45-154**
EIDC	XI	01 18 57 11.4	21.2S	177.2W	355	3.3b	¶97xi0125
NEIC	XI	01 18 57 14.5	21.13S	177.37W	400	4.7b	
NEIC		Less reliable solution.					
EIDC	**XI**	**02 04 48 01.1**	**21.3S**	**178.2W**	**0**	**3.5b**	¶97xi0197
ISC	**XI**	**02 15 41 15.5**±.87	**20.9S**±.33	**176.8W**±.24	**200**	**3.4b**	**12 39-151**
EIDC	XI	02 15 41 12.8	20.9S	176.7W	166	3.3b	¶97xi0295
NEIC	XI	02 15 41 15.4	20.86S	176.83W	200	4.0b	
NEIC		Poor solution.					
ISC	**XI**	**02 17 26 41**±1.2	**21.6S**±.22	**176.6W**±.23	**150**	**4.1b**	**11 9-81**
NEIC	XI	02 17 26 41.3	21.57S	176.63W	150	4.2b	¶97xi0304
EIDC	XI	02 17 26 45.4	21.3S	176.6W	186	3.8b,4.4L	
NEIC		Less reliable solution.					
ISC	**XI**	**02 20 40 29**±1.5	**18.6S**±.37	**177.6W**±.28	**429**±9.6*	**3.4b**	**8 39-86**
EIDC	XI	02 20 40 28.9	18.7S	177.5W	422	3.1b	¶97xi0331
ISC	**XI**	**03 04 20 09**±1.8	**16.6S**±.76	**178.3W**±.44	**33**	**3.8b**	**6 45-86**
EIDC	XI	03 04 20 05.9	16.6S	178.2W	0	3.8b	¶97xi0405
ISC	**XI**	**03 05 37 50.2**±.96	**20.39S**±.065	**178.76W**±.050	**614**±13	**5.1b**	**325 9-167**
NEIC	XI	03 05 37 48.7	20.40S	178.74W	600	5.1b	¶97xi0412
BJI	XI	03 05 37 49.6	20.19S	178.49W	613	5.2b	
EIDC	XI	03 05 37 52.2	20.4S	178.8W	617	4.5b	
HRVD	XI	03 05 37 55.4±.3	20.35S±.03	178.80W±.04	620±2.3		
NEIC		Mw5.6(HRV).					
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c49; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.21±.07; $M_{\theta\theta}$0.28±.11; $M_{\phi\phi}$0.94±.12; $M_{r\theta}$−2.13±.09; $M_{r\phi}$−1.48±.10; $M_{\theta\phi}$0.92±.12. Principal Axes: T 3.05,Plg31°,Azm134°; N −0.19,Plg11°,Azm231°; P −2.86,Plg57°,Azm338°. Best double couple: $M_0$3.0×10^{17}Nm, NP1:ϕ_S192°,δ17°,λ−130°. NP2:ϕ_S53°,δ77°,λ−79°.					
ISC	**XI**	**03 06 29 16**±3.4	**13.20S**±.083	**174.87E**±.066	**26**±24	**5.0b,5.1s**	**147 8-176**
NEIC	XI	03 06 29 16.4	13.19S	174.89E	33	5.2b,5.3s	¶97xi0421
BJI	XI	03 06 29 17.2	12.95S	175.03E	34	5.2b,5.1s	
HRVD	XI	03 06 29 17.9±.3	13.10S±.04	175.08E±.04	15		
EIDC	XI	03 06 29 20.5	13.3S	174.9E	54	4.6b,4.2L	
NEIC		Mw5.5(HRV).					
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c60; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.91±.06; $M_{\theta\theta}$1.83±.06; $M_{\phi\phi}$0.08±.09; $M_{r\theta}$−0.49±.29; $M_{r\phi}$−0.11±.22; $M_{\theta\phi}$−0.31±.06. Principal Axes: T 1.94,Plg7°,Azm189°; N 0.04, Plg5°,Azm98°; P −1.98,Plg81°,Azm331°. Best double couple: $M_0$2.0×10^{17}Nm, NP1:ϕ_S285°, δ38°,λ−82°. NP2:ϕ_S94°,δ52°,λ−97°.					
EIDC	**XI**	**03 07 11 58.2**	**18.0S**	**176.3W**	**0**	**4.0b**	¶97xi0427
ISC	**XI**	**03 08 02 51**±1.2	**17.8S**±.21	**178.6W**±.14	**601**±17	**4.2b**	**53 8-154**
NEIC	XI	03 08 02 50.8	17.87S	178.62W	600	4.2b	¶97xi0431
EIDC	XI	03 08 02 53.9	17.9S	178.7W	620	3.6b	
NEIC		Less reliable solution.					
EIDC	**XI**	**03 13 07 40.3**	**17.0S**	**177.6W**	**0**	3.4b	¶97xi0468
EIDC	**XI**	**03 14 51 48.0**	**19.0S**	**179.3W**	**0**	**3.6b**	¶97xi0485
ISC	**XI**	**04 05 55 48.0**±.66	**13.2S**±.13	**174.8E**±.13	**33**	**4.4b,4.5s**	**24 12-127**
EIDC	XI	04 05 55 41.8	13.5S	175.4E	0	4.5s,4.3b	¶97xi0584
BJI	XI	04 05 55 47.5	13.30S	174.90E	33	4.9b	
NEIC	XI	04 05 55 47.5	13.29S	174.93E	33	4.8b	
NEIC		Less reliable solution.					

Agency		Origin Time		φ	λ	h	Mag	*n*	Δ-Rng
		mo d h m s		°	°	km			°
ISC	**XI**	**04 10 40 44**±1.3		**20.97S**±.079	**179.23W**±.060	**633**±16	**5.0b**	**250**	**10-167**
BJI	XI	04 10 40 42.4		20.59S	179.07W	596	4.8b		¶97xi0619
NEIC	XI	04 10 40 43.0		21.03S	179.20W	621	5.1b		
EIDC	XI	04 10 40 46.8		20.9S	179.2W	647	4.3b		
HRVD	XI	04 10 40 47.3±.4		20.90S±.05	179.27W±.03	620±3.0			
NEIC	Mw5.6(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c35; Mantle waves: s3,c4; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.25±.07; $M_{\theta\theta}$1.27±.10; $M_{\phi\phi}$−1.51±.11; $M_{r\theta}$0.80±.10; $M_{r\phi}$−1.57±.09; $M_{\theta\phi}$−1.44±.09. Principal Axes: T 2.71,Plg31°,Azm31°; N −0.06,Plg48°,Azm165°; P −2.64,Plg24°,Azm285°. Best double couple: $M_0$2.7×10^{17}Nm, NP1:ϕ_S66°,δ49°,λ174°. NP2:ϕ_S160°,δ86°,λ41°.								
EIDC	**XI**	**04 12 22 42.8**		**15.3S**	**179.5W**	**0**	**3.8b**		¶97xi0633
ISC	**XI**	**05 00 28 08**±1.2		**21.34S**±.088	**179.16W**±.085	**590**±17	**4.1b**	**40**	**10-151**
NEIC	XI	05 00 28 08.1		21.37S	179.16W	600	4.2b		¶97xi0710
EIDC	XI	05 00 28 08.6		21.3S	179.1W	589	3.5b		
ISC	**XI**	**05 06 43 19**±1.4		**19.0S**±.55	**178.5W**±.31	**600**	**3.5b**	**12**	**38-149**
EIDC	XI	05 06 43 17.5		18.9S	178.4W	566	2.9b		¶97xi0746
NEIC	XI	05 06 43 18.8		19.01S	178.45W	600	3.8b		
NEIC	Poor solution.								
ISC	**XI**	**05 09 06 58.6**±.63		**13.1S**±.16	**174.7E**±.14	**33**	**4.3b,4.0s**	**20**	**12-155**
EIDC	XI	05 09 06 57.4		13.2S	174.9E	17	4.2b,4.1s		¶97xi0760
NEIC	XI	05 09 06 58.3		13.09S	174.74E	33	4.6b		
NEIC	Less reliable solution.								
ISC	**XI**	**05 12 37 54**±6.2		**13.3S**±.14	**174.95E**±.092	**29**±45	**4.5b,4.9s**	**99**	**12-150**
EIDC	XI	05 12 37 50.2		13.4S	175.2E	0	4.4b		¶97xi0802
BJI	XI	05 12 37 54.5		13.40S	175.00E	33	5.3b,4.9s		
NEIC	XI	05 12 37 54.5		13.41S	175.02E	33	4.9b,5.0s		
HRVD	XI	05 12 37 55.7±1.2		13.41S	175.02E	15			
NEIC	Mw5.3(HRV), Less reliable solution.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s12,c15; Half duration: 1s4. Moment tensor: Scale 10^{16}Nm; M_{rr}−6.55±1.63; $M_{\theta\theta}$7.93±1.15; $M_{\phi\phi}$−1.39±2.53; $M_{r\theta}$8.15±2.99; $M_{r\phi}$−0.25±3.25; $M_{\theta\phi}$−3.39±1.50. Principal Axes: T 12.3, Plg23°,Azm14°; N −2.0,Plg12°,Azm279°; P −10.4,Plg64°,Azm162°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S127°,δ25°,λ−59°. NP2:ϕ_S274°,δ69°,λ−103°.								
EIDC	**XI**	**05 17 44 35.7**		**18.6S**	**176.8W**	**0**	**4.1b**		¶97xi0835
ISC	**XI**	**05 18 14 13**±1.1		**13.4S**±.28	**175.2E**±.22	**33**	**4.1b**	**7**	**12-99**
EIDC	XI	05 18 14 13.2		13.3S	175.3E	23	4.1b		¶97xi0841
ISC	**XI**	**06 00 53 26**±1.3		**21.9S**±.25	**179.4W**±.21	**500**	**4.0b**	**15**	**32-151**
NEIC	XI	06 00 53 24.8		21.93S	179.34W	500	4.2b		¶97xi0892
EIDC	XI	06 00 53 28.7		22.6S	179.0W	561	3.5b		
NEIC	Poor solution.								
ISC	**XI**	**06 03 35 05**±1.3		**15.6S**±.50	**177.2W**±.32	**33**	**4.0b,3.9s**	**8**	**41-85**
EIDC	XI	06 03 35 01.5		15.6S	177.0W	0	4.0s,3.8b		¶97xi0916
ISC	**XI**	**06 06 12 38**±3.0		**19.9S**±.66	**179.2W**±.54	**600**	**3.7b**	**8**	**32-88**
EIDC	XI	06 06 12 44.5		20.2S	179.1W	676	3.0b		¶97xi0932
ISC	**XI**	**06 09 45 46.3**±.50		**13.2S**±.10	**174.5E**±.10	**33**	**4.5b,4.1s**	**36**	**12-155**
EIDC	XI	06 09 45 41.7		13.1S	174.8E	0	4.3b,4.2s		¶97xi0954
NEIC	XI	06 09 45 46.0		13.18S	174.56E	33	4.7b		
BJI	XI	06 09 45 48.7		12.49S	174.84E	43	5.1b		
NEIC	Less reliable solution.								
ISC	**XI**	**06 10 42 41.3**±.56		**15.6S**±.17	**177.4W**±.12	**33**	**4.4b,4.4s**	**35**	**6-146**
EIDC	XI	06 10 42 37.4		15.5S	177.3W	0	4.5s,4.2b		¶97xi0963
NEIC	XI	06 10 42 41.2		15.54S	177.43W	33	4.6b,4.6s		
NEIC	Less reliable solution.								
ISC	**XI**	**06 21 43 55**±2.2		**13.24S**±.063	**174.87E**±.056	**37**±19	**5.1b,5.1s**	**180**	**8-173**
EIDC	XI	06 21 43 50.9		13.2S	175.0E	0	4.8b,5.0s		¶97xi1036
NEIC	XI	06 21 43 54.4		13.19S	174.88E	33	5.3b,5.2s		
MOS	XI	06 21 43 54.8		13.3S	174.9E	33	5.7b,4.9s		
BJI	XI	06 21 43 55.2		12.65S	174.69E	20	5.4b,5.1s		
EIDC	**XI**	**07 09 12 29.4**		**16.3S**	**176.0W**	**0**	**3.9b**		¶97xi1104
EIDC	LO CONF Location								
ISC	**XI**	**07 09 25 16**±2.6		**13.19S**±.098	**174.9E**±.11	**57**±22	**4.7b,4.4s**	**43**	**8-146**
EIDC	XI	07 09 25 09.3		13.1S	174.9E	0	4.5b,4.4s		¶97xi1107
NEIC	XI	07 09 25 12.8		13.14S	174.91E	33	4.8b		
BJI	XI	07 09 25 13.1		12.46S	174.46E	7	4.9b,5.2s		
ISC	**XI**	**07 13 41 13**±3.4		**22.0S**±.11	**177.0W**±.12	**280**±31	**4.5b**	**82**	**15-155**
NEIC	XI	07 13 41 01.6		21.92S	176.84W	172	4.9b		¶97xi1129
EIDC	XI	07 13 41 04.6		21.9S	176.7W	186	4.2b		
ISC	**XI**	**07 17 05 34**±2.4		**21.8S**±.12	**176.3W**±.11	**118**±21	**4.6b**	**43**	**9-152**
NEIC	XI	07 17 05 31.4		21.87S	176.30W	100	4.8b		¶97xi1150
EIDC	XI	07 17 05 34.2		21.8S	176.3W	109	4.2b		
NEIC	Less reliable solution.								
EIDC	**XI**	**08 02 04 36.4**		**13.2S**	**175.0E**	**0**	**4.0b**		¶97xi1195
ISC	**XI**	**08 03 03 13**±1.4		**20.5S**±.62	**178.9W**±.35	**600**	**3.5b**	**10**	**37-157**
EIDC	XI	08 03 03 12.9		20.5S	178.8W	585	3.0b		¶97xi1200
ISC	**XI**	**08 04 19 02**±3.6		**21.6S**±.77	**176.7W**±.63	**33**	**4.1b**	**6**	**38-89**
EIDC	XI	08 04 18 58.5		21.4S	176.8W	0	4.0b		¶97xi1209
ISC	**XI**	**08 06 23 43**±1.1		**13.5S**±.17	**175.4E**±.21	**33**	**4.3b,4.0s**	**14**	**12-89**
EIDC	XI	08 06 23 39.4		13.5S	175.4E	0	4.2s,4.2b		¶97xi1222
NEIC	XI	08 06 23 42.8		13.44S	175.37E	33	4.8b		
NEIC	Poor solution.								
EIDC	**XI**	**08 10 16 50.1**		**17.8S**	**177.8W**	**0**	**3.8b**		¶97xi1257
EIDC	**XI**	**08 11 01 28.6**		**15.4S**	**176.4W**	**0**	**4.3b**,4.2L		¶97xi1267
ISC	**XI**	**08 14 09 21**±1.5		**20.8S**±.13	**178.7W**±.10	**556**±18	**4.0b**	**42**	**10-165**
NEIC	XI	08 14 09 20.6		20.83S	178.66W	560	4.2b		¶97xi1292
BJI	XI	08 14 09 20.8		20.43S	178.59W	542	4.3b		
EIDC	XI	08 14 09 21.2		20.9S	178.6W	554	3.5b		
NEIC	Less reliable solution.								
EIDC	**XI**	**08 20 08 00.9**		**13.7S**	**175.4E**	**0**	**4.1b**		¶97xi1345
ISC	**XI**	**08 20 15 27**±2.4		**13.2S**±.36	**175.1E**±.44	**33**	**4.1b**	**7**	**28-83**
EIDC	XI	08 20 15 22.9		13.3S	175.2E	0	4.1b		¶97xi1346
NEIC	XI	08 20 15 26.5		13.23S	175.09E	33	4.4b		
NEIC	Poor solution.								
ISC	**XI**	**08 20 52 42**±5.5		**20.9S**±.57	**179.2W**±.61	**701**±50	**3.9b**	**14**	**13-150**
EIDC	XI	08 20 52 31.2		20.9S	178.5W	557	3.4b		¶97xi1349
NEIC	XI	08 20 52 38.1		20.91S	178.98W	650	4.0b		
NEIC	Poor solution.								
ISC	**XI**	**08 21 15 00**±2.9		**13.24S**±.095	**174.79E**±.084	**43**±25	**4.5b,4.8s**	**54**	**8-155**
EIDC	XI	08 21 14 55.1		13.3S	175.0E	0	4.3b		¶97xi1352
NEIC	XI	08 21 14 58.9		13.28S	174.85E	33	4.7b		
BJI	XI	08 21 14 59.3		12.42S	174.20E	5	5.3b,5.0s		
ISC	**XI**	**09 00 53 34.3**±.72		**13.2S**±.12	**174.9E**±.14	**33**	**4.3b**,4.4s	**24**	**12-155**
EIDC	XI	09 00 53 30.0		13.3S	175.0E	0	4.2b,4.1s		¶97xi1373
BJI	XI	09 00 53 34.1		13.10S	174.80E	33	4.7b		
NEIC	XI	09 00 53 34.1		13.13S	174.83E	33	4.6b		
NEIC	Less reliable solution.								
ISC	**XI**	**09 07 22 39**±2.4		**13.33S**±.099	**174.66E**±.089	**58**±21	**4.6b,4.6s**	**55**	**8-155**
BJI	XI	09 07 22 32.0		13.30S	174.80E	16	4.8b,5.1s		¶97xi1416
NEIC	XI	09 07 22 33.5		13.31S	174.75E	17	4.8b		
EIDC	XI	09 07 22 33.7		13.2S	174.9E	17	4.4b,4.5s		
NEIC	Less reliable solution.								
EIDC	**XI**	**09 09 37 30.7**		**18.7S**	**177.1W**	**0**	**3.8b**		¶97xi1428
ISC	**XI**	**09 11 14 02**±1.2		**16.5S**±.46	**178.6W**±.29	**68**±2.9*	**4.1b**	**11**	**39-86**
EIDC	XI	09 11 14 04.9		16.0S	178.8W	68	3.4b		¶97xi1439
ISC	**XI**	**09 14 48 42**±5.6		**20.3S**±.62	**177.5W**±.89	**33**	**4.3b**	**12**	**30-150**
EIDC	XI	09 14 48 37.5		20.3S	177.4W	0	4.3b		¶97xi1460
ISC	**XI**	**09 17 17 14**±3.0		**17.5S**±.12	**178.9W**±.14	**553**±36	**4.4b**	**74**	**15-159**
EIDC	XI	09 17 17 11.5		17.4S	178.7W	518	3.7b		¶97xi1479
NEIC	XI	09 17 17 13.0		17.50S	178.86W	550	4.7b		
BJI	XI	09 17 17 14.3		17.56S	178.76W	566	4.6b		
NEIC	Less reliable solution.								
ISC	**XI**	**09 18 20 50**±2.1		**13.1S**±.43	**174.3E**±.46	**33**	**4.1b**	**6**	**35-83**
EIDC	XI	09 18 20 53.3		11.3S	172.9E	0	4.0b		¶97xi1487
ISC	**XI**	**10 09 16 40.1**±.40		**13.0S**±.12	**174.82E**±.095	**33**	**4.5b**,4.6s	**38**	**12-155**
EIDC	XI	10 09 16 36.7		13.0S	174.8E	0	4.4b		¶97xi1589
BJI	XI	10 09 16 39.8		13.00S	174.80E	33	4.8b,5.2s		
NEIC	XI	10 09 16 39.8		13.01S	174.80E	33	4.8b		
ISC	**XI**	**10 12 13 47.7**±.73		**18.2S**±.18	**177.9W**±.14	**600**	**3.9b**	**15**	**32-89**
NEIC	XI	10 12 13 47.6		18.24S	177.89W	600	4.2b		¶97xi1611
EIDC	XI	10 12 13 50.9		18.2S	177.9W	626	3.1b		
NEIC	Less reliable solution.								
ISC	**XI**	**10 22 16 27.2**±.64		**13.15S**±.098	**174.8E**±.12	**33**	**4.5b**,3.8s	**34**	**12-141**
EIDC	XI	10 22 16 23.3		13.2S	174.9E	0	4.5b,3.8s		¶97xi1684
NEIC	XI	10 22 16 27.0		13.12S	174.76E	33	4.6b		
BJI	XI	10 22 16 27.2		12.89S	174.63E	24	4.8b		
NEIC	Less reliable solution.								
EIDC	**XI**	**11 00 54 45.9**		**18.1S**	**179.2W**	**700**	**2.5b**		¶97xi1704
EIDC	LO CONF								
ISC	**XI**	**11 02 00 35**±3.1		**13.17S**±.063	**174.86E**±.048	**18**±22	**5.2b,5.1s**	**224**	**8-174**
HRVD	XI	11 02 00 35.2±.6		13.21S±.06	175.50E±.08	15			¶97xi1711
NEIC	XI	11 02 00 36.5		13.19S	174.86E	33	5.3b,5.1s		
MOS	XI	11 02 00 37.1		13.2S	174.8E	33	5.5b,5.0s		
BJI	XI	11 02 00 38.9		12.44S	174.67E	25	5.4b,5.1s		
EIDC	XI	11 02 00 40.1		13.2S	174.9E	52	4.8b,4.9s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c34; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.25±.09; $M_{\theta\theta}$1.39±.08; $M_{\phi\phi}$−0.14±.14; $M_{r\theta}$−0.86±.34; $M_{r\phi}$1.09±.30; $M_{\theta\phi}$−0.22±.09. Principal Axes: T 1.81,Plg21°,Azm199°; N 0.23, Plg21°,Azm297°; P −2.03,Plg59°,Azm69°. Best double couple: $M_0$1.9×10^{17}Nm, NP1: ϕ_S256°,δ31°,λ−136°. NP2:ϕ_S126°,δ69°,λ−67°.								
NEIC	Mw5.5(HRV).								
EIDC	**XI**	**11 05 21 48.8**		**13.7S**	**175.4E**	**0**	**4.0b**		¶97xi1740
ISC	**XI**	**11 06 39 31**±1.3		**18.0S**±.51	**178.0W**±.29	**550**	**3.9b**	**13**	**34-148**
NEIC	XI	11 06 39 31.4		17.95S	178.04W	550	4.0b		¶97xi1750
EIDC	XI	11 06 39 34.7		18.0S	178.0W	577	3.3b		
NEIC	Poor solution.								
ISC	**XI**	**11 13 13 11.2**±.96		**13.2S**±.18	**174.8E**±.18	**33**	**4.1b,4.2s**	**14**	**12-89**
EIDC	XI	11 13 13 06.9		13.3S	174.9E	0	4.1s,4.1b		¶97xi1794
NEIC	XI	11 13 13 11.2		13.18S	174.80E	33	4.7b		
NEIC	Poor solution.								
EIDC	**XI**	**11 15 03 39.9**		**14.8S**	**176.9E**	**21**	**4.0b,3.6s**		¶97xi1811
ISC	**XI**	**11 21 56 55**±1.6		**13.2S**±.55	**174.8E**±.36	**33**	**3.8b**	**7**	**39-89**
EIDC	XI	11 21 56 51.0		13.1S	174.8E	0	3.9b		¶97xi1881
ISC	**XI**	**12 00 25 01.1**±.82		**17.2S**±.31	**178.6W**±.17	**550**	**3.8b**	**12**	**45-147**
NEIC	XI	12 00 25 00.9		17.21S	178.55W	550	4.0b		¶97xi1905
EIDC	XI	12 00 25 04.4		17.2S	178.6W	578	3.2b		
NEIC	Less reliable solution.								
ISC	**XI**	**12 03 06 09**±1.0		**13.3S**±.27	**174.8E**±.24	**33**	**4.2b,4.5s**	**9**	**12-93**
EIDC	XI	12 03 06 06.7		11.4S	174.0E	0	3.9b,4.3s		¶97xi1924
ISC	**XI**	**12 06 12 21.6**±.89		**18.0S**±.27	**178.3W**±.22	**550**	**3.6b**	**14**	**45-148**
NEIC	XI	12 06 12 21.4		18.00S	178.24W	550			¶97xi1946
EIDC	XI	12 06 12 24.4		17.9S	178.2W	573	3.2b		
NEIC	Poor solution.								
EIDC	**XI**	**12 13 21 50.9**		**13.1S**	**175.1E**	**19**	**3.6b**		¶97xi1987
ISC	**XI**	**12 14 19 50**±1.3		**21.9S**±.11	**179.55W**±.076	**570**±17	**4.6b**	**136**	**11-164**
BJI	XI	12 14 19 51.7		21.53S	179.49W	582	4.7b		¶97xi1993
EIDC	XI	12 14 19 51.8		21.9S	179.6W	583	4.1b		
NEIC	XI	12 14 19 52.0		21.95S	179.61W	600	4.7b		
ISC	**XI**	**12 19 33 49**±2.7		**13.25S**±.099	**174.86E**±.096	**67**±24	**4.5b**	**51**	**8-155**
EIDC	XI	12 19 33 41.0		13.2S	175.0E	0	4.6b		¶97xi2026
BJI	XI	12 19 33 45.1		13.10S	174.80E	33	4.7b,5.1s		
NEIC	XI	12 19 33 45.1		13.14S	174.85E	33	4.8b		
EIDC	**XI**	**13 03 28 37.1**		**13.9S**	**175.3E**	**0**	**3.7b**		¶97xi2074
EIDC	**XI**	**13 12 30 37.3**		**20.1S**	**177.8W**	**474**	**2.9b**		¶97xi2133
EIDC	LO CONF Depth								
ISC	**XI**	**13 19 49 09.3**±.53		**21.6S**±.16	**176.8W**±.11	**188**	**4.5b**	**57**	**9-153**
NEIC	XI	13 19 49 09.2		21.67S	176.74W	188	4.6b		¶97xi2184
EIDC	XI	13 19 49 10.5		21.6S	176.5W	187	4.2b		
NEIC	Less reliable solution.								
EIDC	**XI**	**14 16 14 03.3**		**16.8S**	**175.4E**	**0**	**3.7b**		¶97xi2316
EIDC	LO CONF Location								
EIDC	**XI**	**14 17 57 00.6**		**16.4S**	**177.7W**	**0**	**4.1b**		¶97xi2330
EIDC	LO CONF Location								
ISC	**XI**	**14 18 49 13**±1.3		**13.2S**±.13	**174.8E**±.23	**33**	**4.5b,3.9s**	**21**	**12-86**
EIDC	XI	14 18 49 08.3		13.2S	175.0E	0	4.1s,4.4b		¶97xi2333
NEIC	XI	14 18 49 12.9		13.18S	174.78E	33	4.7b		
BJI	XI	14 18 49 14.2		12.33S	174.19E	6	4.8b		
NEIC	Less reliable solution.								
ISC	**XI**	**14 19 51 56**±2.1		**17.1S**±.31	**178.2W**±.27	**253**±29	**4.0b**	**16**	**7-147**
EIDC	XI	14 19 51 58.5		17.4S	177.9W	283	3.7b		¶97xi2343
NEIC	XI	14 19 52 00.3		17.21S	178.22W	300	4.2b		
NEIC	Poor solution.								
ISC	**XI**	**15 12 09 44**±1.2		**16.2S**±.21	**176.1W**±.19	**349**±17	**4.2b**	**60**	**5-152**
NEIC	XI	15 12 09 42.1		16.01S	176.41W	313	4.3b		¶97xi2468
EIDC	XI	15 12 09 44.3		16.2S	176.0W	342	3.8b		
NEIC	Less reliable solution.								
ISC	**XI**	**15 14 38 57**±3.2		**21.5S**±.56	**177.4W**±.56	**33**	**3.9b**	**7**	**38-89**
EIDC	XI	15 14 38 52.7		21.5S	177.3W	0	4.0b		¶97xi2491
ISC	**XI**	**15 20 33 18**±3.1		**13.9S**±.47	**175.3E**±.52	**33**	**3.9b**	**7**	**12-83**
EIDC	XI	15 20 33 13.3		14.1S	175.4E	0	3.9b		¶97xi2532
EIDC	**XI**	**15 22 17 31.6**		**14.7S**	**176.3E**	**0**	**3.7b**		¶97xi2550
ISC	**XI**	**16 04 28 41.8**±.93		**18.9S**±.31	**177.7W**±.24	**500**	**3.5b**	**12**	**39-159**
NEIC	XI	16 04 28 41.4		18.92S	177.68W	500			¶97xi2597
EIDC	XI	16 04 28 44.2		19.0S	177.7W	520	3.1b		
NEIC	Poor solution.								
ISC	**XI**	**16 06 34 02**±1.4		**20.3S**±.38	**177.8W**±.33	**400**	**4.0b**	**10**	**36-90**
EIDC	XI	16 06 33 21.1		19.1S	177.9W	0	4.2b		¶97xi2607
NEIC	XI	16 06 34 01.3		20.39S	177.79W	400	4.2b		
NEIC	Poor solution.								

ISC	**XI**	**17 10 09 46**±4.5	**17.6S**±.59	**178.8W**±.33	**561**±60	**3.8b**	**13 15-159**	
EIDC	XI	17 10 09 40.5	17.4S	178.7W	478	3.3b		**¶97xi2774**
NEIC	XI	17 10 09 41.1	17.49S	178.76W	500	4.1b		
NEIC	Poor solution.							
ISC	**XI**	**17 11 36 24**±5.8	**14.4S**±.37	**175.8E**±.35	**157**±54	**3.9b**	**7 12-84**	
EIDC	XI	17 11 36 12.2	12.9S	174.8E	0	4.1s,4.2b		**¶97xi2790**
NEIC	XI	17 11 36 14.7	13.25S	175.02E	33	4.6b		
NEIC	Poor solution.							
ISC	**XI**	**17 13 50 52**±1.3	**17.7S**±.23	**178.7W**±.16	**552**±19	**4.3b**	**26 8-92**	
NEIC	XI	17 13 50 51.9	17.70S	178.69W	550	4.5b		**¶97xi2809**
EIDC	XI	17 13 50 53.1	17.5S	178.7W	545	3.6b		
NEIC	Less reliable solution.							
ISC	**XI**	**17 14 16 17.1**±.98	**15.0S**±.26	**177.8W**±.20	**348**	**4.2b**	**20 16-145**	
NEIC	XI	17 14 16 16.8	15.03S	177.79W	348	4.7b		**¶97xi2815**
EIDC	XI	17 14 16 17.8	15.0S	177.8W	342	3.7b		
NEIC	Poor solution.							
ISC	**XI**	**17 16 08 08**±3.8	**17.7S**±.40	**178.8W**±.30	**628**±49	**4.2b**	**17 15-147**	
EIDC	XI	17 16 07 58.7	17.4S	178.6W	500	3.5b		**¶97xi2827**
NEIC	XI	17 16 08 05.3	17.75S	178.68W	600	4.5b		
NEIC	Poor solution.							
ISC	**XI**	**18 04 37 15.3**±.85	**13.1S**±.15	**174.8E**±.16	**33**	**4.4b,3.9s**	**17 12-89**	
EIDC	XI	18 04 37 11.2	13.2S	175.0E	0	4.1s,4.4b		**¶97xi2910**
NEIC	XI	18 04 37 15.1	13.09S	174.82E	33	4.8b		
NEIC	Less reliable solution.							
ISC	**XI**	**18 18 04 11.6**±.50	**21.7S**±.11	**176.47W**±.093	**154**	**4.4b**	**63 16-158**	
NEIC	XI	18 18 04 11.5	21.72S	176.45W	154	4.6b		**¶97xi3032**
EIDC	XI	18 18 04 12.9	21.7S	176.4W	154	4.1b		
ISC	**XI**	**19 11 21 14.1**±.92	**16.0S**±.30	**176.3W**±.23	**400**	**4.1b**	**20 17-85**	
EIDC	XI	19 11 20 32.6	15.4S	176.0W	0	4.1b		**¶97xi3204**
NEIC	XI	19 11 21 09.1	16.00S	176.18W	350	4.2b		
NEIC	Less reliable solution.							
EIDC	**XI**	**19 12 44 41.6**	**15.9S**	**176.4W**	**0**	**4.1b**		**¶97xi3219**
EIDC	**XI**	**19 15 44 15.6**	**18.5S**	**173.2E**	**0**	**4.2b**,3.4s		**¶97xi3248**
ISC	**XI**	**19 23 24 36**±1.0	**15.9S**±.27	**179.0W**±.23	**33**	**4.0b**	**6 39-85**	
EIDC	XI	19 23 24 32.4	15.8S	179.0W	0	4.0b		**¶97xi3337**
ISC	**XI**	**20 00 05 09**±1.5	**18.5S**±.61	**177.8W**±.38	**33**	**3.9b**	**7 39-87**	
EIDC	XI	20 00 05 04.9	18.4S	177.7W	0	3.9b		**¶97xi3344**
ISC	**XI**	**20 02 53 36**±2.1	**13.4S**±.80	**178.3W**±.51	**33**	**3.6b**	**4 46-83**	
EIDC	XI	20 02 53 32.3	13.4S	178.2W	0	3.7b		**¶97xi3378**
ISC	Poorly determined							
EIDC	**XI**	**20 16 21 50.1**	**18.2S**	**176.8E**	**0**	**3.6b**,3.5s		**¶97xi3492**
ISC	**XI**	**21 04 48 46**±4.8	**13.5S**±.18	**174.9E**±.15	**81**±44	**4.2b**	**21 12-89**	
EIDC	XI	21 04 48 36.0	13.7S	175.2E	0	4.5s,4.2b		**¶97xi3587**
BJI	XI	21 04 48 40.5	13.40S	174.90E	33	4.7b		
NEIC	XI	21 04 48 40.5	13.38S	174.93E	33	4.6b		
NEIC	Less reliable solution.							
ISC	**XI**	**21 17 55 06**±1.3	**19.0S**±.24	**177.6W**±.17	**563**±19	**4.3b**	**27 8-149**	
EIDC	XI	21 17 55 07.4	19.0S	177.6W	564	3.7b		**¶97xi3701**
NEIC	XI	21 17 55 08.7	19.20S	177.64W	600	4.5b		
NEIC	Less reliable solution.							
ISC	**XI**	**22 03 37 19**±1.6	**18.9S**±.60	**178.1W**±.34	**500**	**3.4b**	**11 38-149**	
EIDC	XI	22 03 37 17.5	19.3S	177.9W	491	3.1b		**¶97xi3794**
ISC	**XI**	**22 04 14 32**±1.2	**17.7S**±.10	**178.75W**±.078	**534**±15	**4.5b**	**135 8-159**	
NEIC	XI	22 04 14 28.6	17.69S	178.68W	500	4.6b		**¶97xi3802**
BJI	XI	22 04 14 29.2	17.52S	178.69W	499	4.7b		
EIDC	XI	22 04 14 33.1	17.8S	178.7W	547	4.0b		
ISC	**XI**	**22 18 55 18**±1.9	**14.8S**±.73	**177.7W**±.45	**33**	**3.8b**	**6 46-84**	
EIDC	XI	22 18 55 14.7	14.7S	177.7W	0	3.9b		**¶97xi3943**
EIDC	**XI**	**23 00 11 02.7**	**14.9S**	**176.4E**	**0**	**3.9b**		**¶97xi3986**
ISC	**XI**	**23 04 44 22**±4.8	**13.2S**±.17	**174.8E**±.15	**42**±43	**4.3b**	**27 12-155**	
EIDC	XI	23 04 44 16.2	13.4S	175.0E	0	4.2b		**¶97xi4032**
BJI	XI	23 04 44 20.6	13.49S	174.43E	19	4.9b		
NEIC	XI	23 04 44 20.6	13.17S	174.77E	33	4.6b		
NEIC	Less reliable solution.							
ISC	**XI**	**23 05 12 26**±1.2	**13.0S**±.23	**174.6E**±.23	**33**	**4.2b,4.0s**	**12 36-155**	
EIDC	XI	23 05 12 22.0	12.9S	174.7E	0	4.2b,4.0s		**¶97xi4043**
NEIC	XI	23 05 12 25.8	13.02S	174.62E	33	4.3b		
NEIC	Poor solution.							
ISC	**XI**	**23 08 24 33**±2.7	**13.3S**±.53	**175.2E**±.54	**33**	**4.0b**	**7 36-83**	
EIDC	XI	23 08 24 30.2	13.2S	175.1E	0	4.2b		**¶97xi4074**
NEIC	XI	23 08 24 33.4	13.34S	175.21E	33	4.0b		
NEIC	Poor solution.							
EIDC	**XI**	**23 11 15 03.1**	**13.4S**	**175.0E**	**18**	**3.7b**		**¶97xi4104**
EIDC	**XI**	**23 12 05 01.5**	**13.5S**	**175.2E**	**20**	**3.7b**		**¶97xi4115**
EIDC	**XI**	**23 13 26 46.9**	**15.1S**	**175.8E**	**0**	**3.8b**		**¶97xi4127**
ISC	**XI**	**23 14 33 53.4**±.99	**13.0S**±.24	**174.8E**±.20	**33**	**4.0b,3.8s**	**12 36-93**	
EIDC	XI	23 14 33 49.6	13.1S	174.9E	0	4.1b,3.8s		**¶97xi4131**
NEIC	XI	23 14 33 53.2	13.09S	174.80E	33	3.8b		
NEIC	Poor solution.							
ISC	**XI**	**23 15 18 35**±1.1	**13.0S**±.22	**174.8E**±.21	**33**	**3.9b**,3.6s	**10 39-89**	
EIDC	XI	23 15 18 31.2	13.1S	174.9E	0	4.0b,3.6s		**¶97xi4139**
NEIC	XI	23 15 18 35.0	13.10S	174.79E	33	3.7b		
NEIC	Poor solution.							
ISC	**XI**	**23 15 42 14.9**±.61	**13.0S**±.12	**174.8E**±.14	**33**	**4.4b**	**25 12-127**	
EIDC	XI	23 15 42 10.7	13.0S	174.8E	0	4.3b		**¶97xi4144**
BJI	XI	23 15 42 14.8	13.00S	174.80E	33			
NEIC	XI	23 15 42 14.8	13.00S	174.74E	33	4.5b		
NEIC	Less reliable solution.							
EIDC	**XI**	**23 17 01 38.7**	**18.5S**	**177.6W**	**0**	**3.8b**		**¶97xi4154**
EIDC	LO CONF Location							
ISC	**XI**	**23 19 59 07**±3.6	**17.5S**±.85	**178.4W**±.78	**600**	**3.8b**	**8 39-147**	
EIDC	XI	23 19 59 08.9	17.6S	178.3W	606	3.1b		**¶97xi4185**
EIDC	**XI**	**23 20 44 09.3**	**16.6S**	**178.2W**	**0**	**3.9b**		**¶97xi4194**
EIDC	**XI**	**23 20 57 15.6**	**13.5S**	**173.5E**	**0**	**3.7b**		**¶97xi4196**
EIDC	**XI**	**23 22 51 17.7**	**21.6S**	**176.9W**	**0**	**4.1b**		**¶97xi4217**
ISC	**XI**	**24 01 51 17**±1.3	**13.4S**±.23	**174.2E**±.24	**33**	**4.4b,4.7s**	**15 28-89**	
BJI	XI	24 01 51 12.8	13.49S	174.26E	11	4.7b,5.9s		**¶97xi4241**
EIDC	XI	24 01 51 13.5	13.5S	174.3E	0	4.2b,4.3s		
NEIC	XI	24 01 51 16.5	13.47S	174.21E	33	4.8b		
NEIC	Poor solution.							
EIDC	**XI**	**24 07 40 16.2**	**16.2S**	**179.1W**	**0**	**3.9b**		**¶97xi4277**
EIDC	**XI**	**24 10 21 08.2**	**17.8S**	**177.1W**	**0**	**3.4b**		**¶97xi4299**
ISC	**XI**	**24 12 29 06**±2.5	**19.8S**±.65	**179.2W**±.47	**33**	**4.3b**	**10 30-96**	
EIDC	XI	24 12 28 29.2	19.7S	174.5W	0	4.3b		**¶97xi4316**
ISC	**XI**	**24 15 37 09.4**±.21	**13.17S**±.052	**174.78E**±.045	**33**	**5.0b,5.2s**	**218 8-174**	
EIDC	XI	24 15 37 05.2	13.2S	174.9E	0	4.6b,5.2s		**¶97xi4341**
NEIC	XI	24 15 37 09.2	13.19S	174.78E	33	5.2b,5.3s		
HRVD	XI	24 15 37 10.0±.3	13.01S±.03	174.99E±.03	15			
MOS	XI	24 15 37 10.2	13.0S	174.8E	33	5.7b,5.2s		
BJI	XI	24 15 37 10.9	12.47S	175.47E	44	5.3b,5.3s		
NEIC	Mw5.7(HRV).							

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c61; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.62±.05; $M_{\theta\theta}$2.48±.06; $M_{\phi\phi}$0.14±.08; $M_{r\theta}$−2.08±.22; $M_{r\phi}$0.69±.19; $M_{\theta\phi}$−0.30±.06. Principal Axes: T 3.31,Plg20°,Azm190°; N 0.14, Plg5°,Azm282°; P −3.44,Plg69°,Azm26°. Best double couple: $M_0$3.4×10^{17}Nm, NP1:ϕ_S271°, δ25°,λ−102°. NP2:ϕ_S104°,δ65°,λ−84°.

ISC	**XI**	**24 22 43 07**±2.2	**13.2S**±.61	**174.4E**±.49	**33**	**4.4b,**3.8s	**5 40-89**	
EIDC	XI	24 22 43 03.0	13.2S	174.5E	0	4.4b,3.8s		**¶97xi4398**
NEIC	XI	24 22 43 06.5	13.24S	174.48E	33	4.4b		
NEIC	Poor solution.							
ISC	**XI**	**25 02 22 12**±4.9	**13.2S**±.17	**174.7E**±.11	**34**±44	**4.5b,**4.7s	**39 12-155**	
EIDC	XI	25 02 22 07.6	13.3S	174.8E	0	4.4b		**¶97xi4429**
NEIC	XI	25 02 22 11.7	13.14S	174.68E	33	4.7b		
BJI	XI	25 02 22 13.1	12.51S	173.74E	5	4.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**25 02 36 52.8**±.36	**13.25S**±.093	**174.73E**±.076	**33**	**4.7b,4.9s**	**68 12-154**	
EIDC	XI	25 02 36 48.9	13.3S	174.9E	0	4.5b		**¶97xi4432**
BJI	XI	25 02 36 52.2	12.87S	174.07E	5	5.0b,5.1s		
NEIC	XI	25 02 36 52.6	13.22S	174.73E	33	4.9b,4.9s		
HRVD	XI	25 02 36 56.6±1.0	13.14S±.11	174.79E±.10	15			

NEIC Mw5.3(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c23; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}−7.10±.60; $M_{\theta\theta}$8.65±.68; $M_{\phi\phi}$−1.55±.96; $M_{r\theta}$1.08±3.53; $M_{r\phi}$3.86±2.31; $M_{\theta\phi}$1.79±.61. Principal Axes: T 9.15,Plg6°,Azm348°; N −0.07, Plg26°,Azm255°; P −9.08,Plg63°,Azm91°. Best double couple: $M_0$9.1×10^{16}Nm, NP1: ϕ_S105°,δ45°,λ−51°. NP2:ϕ_S236°,δ57°,λ−122°.

ISC	**XI**	**25 08 56 44.7**±.98	**13.2S**±.18	**174.3E**±.20	**21**	**4.2b,**4.2s	**17 35-90**	
BJI	XI	25 08 56 43.4	12.91S	173.97E	5			**¶97xi4479**
NEIC	XI	25 08 56 44.7	13.15S	174.28E	21	4.6b		
EIDC	XI	25 08 56 45.6	13.2S	174.4E	20	4.2s,4.0b		
NEIC	Less reliable solution.							
ISC	**XI**	**26 08 53 30**±1.8	**18.4S**±.99	**175.7E**±.49	**33**	**3.7b,**3.3s	**4 33-91**	
EIDC	XI	26 08 53 30.5	18.2S	175.6E	27	3.6b,3.3s		**¶97xi4660**
ISC	Poorly determined							
ISC	**XI**	**26 19 31 31**±2.2	**20.4S**±.75	**178.2W**±.45	**500**	**3.7b**	**6 33-90**	
EIDC	XI	26 19 31 30.3	20.3S	178.2W	479	3.3b		**¶97xi4737**
EIDC	**XI**	**27 04 54 46.8**	**18.0S**	**177.9W**	**0**	**4.2b**		**¶97xi4797**
EIDC	**XI**	**27 07 05 25.2**	**19.2S**	**178.8W**	**0**	**4.0b**		**¶97xi4820**
ISC	**XI**	**27 10 55 02**±1.4	**20.2S**±.50	**178.5W**±.27	**450**	**3.7b**	**14 14-150**	
EIDC	XI	27 10 54 59.3	20.0S	178.5W	404	3.3b		**¶97xi4843**
NEIC	XI	27 10 55 01.9	20.23S	178.42W	450	4.2b		
NEIC	Poor solution.							
EIDC	**XI**	**27 14 45 37.6**	**19.9S**	**179.2W**	**700**	**2.7b**		**¶97xi4878**
ISC	**XI**	**27 16 21 41**±1.5	**21.0S**±.72	**178.9W**±.38	**490**	**3.5b**	**15 37-150**	
EIDC	XI	27 16 21 41.9	21.0S	178.9W	490	3.1b		**¶97xi4897**
ISC	**XI**	**27 22 14 11**±2.2	**19.5S**±.17	**179.5W**±.15	**720**±30	**4.6b**	**97 13-166**	
NEIC	XI	27 22 14 05.4	19.54S	179.31W	650	4.9b		**¶97xi4943**
EIDC	XI	27 22 14 09.8	19.5S	179.4W	687	4.1b		
NEIC	Less reliable solution.							
ISC	**XI**	**27 23 09 27**±3.7	**19.9S**±.32	**178.1W**±.25	**697**±51	**4.1b**	**25 15-158**	
NEIC	XI	27 23 09 15.7	19.64S	177.87W	550	4.3b		**¶97xi4958**
EIDC	XI	27 23 09 19.4	19.7S	177.8W	581	3.5b		
NEIC	Less reliable solution.							
ISC	**XI**	**28 06 56 10**±3.7	**22.0S**±.12	**177.3W**±.14	**315**±36	**4.4b**	**78 14-163**	
NEIC	XI	28 06 55 58.0	21.93S	177.07W	200	4.5b		**¶97xi5029**
EIDC	XI	28 06 55 58.4	22.0S	177.0W	192	4.2b		
ISC	**XI**	**28 08 07 16**±1.5	**16.9S**±.93	**178.3W**±.51	**33**	**4.3b**	**6 39-87**	
EIDC	XI	28 08 07 12.0	17.0S	178.2W	0	4.2b		**¶97xi5035**
ISC	**XI**	**28 14 06 05**±2.6	**21.1S**±.15	**179.3W**±.14	**643**±34	**4.2b**	**47 13-164**	
EIDC	XI	28 14 06 03.2	21.1S	179.1W	601	3.7b		**¶97xi5097**
NEIC	XI	28 14 06 05.9	21.15S	179.34W	650	4.3b		
BJI	XI	28 14 06 09.9	20.35S	179.88W	650	4.3b		
NEIC	Less reliable solution.							
ISC	**XI**	**28 20 18 29**±6.9	**19.7S**±.17	**178.6W**±.52	**520**±57	**4.6b**	**68 14-155**	
BJI	XI	28 20 18 14.4	19.38S	178.17W	383	4.6b		**¶97xi5138**
NEIC	XI	28 20 18 16.6	19.76S	178.13W	400	4.6b		
NEIC	Poor solution.							
ISC	**XI**	**29 02 42 27**±1.3	**20.99S**±.057	**178.75W**±.049	**573**±17	**5.2b**	**413 13-167**	
EIDC	XI	29 02 42 15.1	20.9S	179.2W	447	4.5b		**¶97xi5179**
NEIC	XI	29 02 42 27.3	21.03S	178.76W	581	5.2b		
BJI	XI	29 02 42 27.5	20.62S	178.45W	583	5.3b		
MOS	XI	29 02 42 29.2	20.9S	178.9W	593	5.5b		
HRVD	XI	29 02 42 32.5±.6	20.79S±.07	178.98W±.07	581±4.0			

NEIC Mw5.7(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c27; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.89±.16; $M_{\theta\theta}$0.26±.25; $M_{\phi\phi}$1.63±.28; $M_{r\theta}$−1.71±.29; $M_{r\phi}$−2.43±.24; $M_{\theta\phi}$−1.42±.26. Principal Axes: T 2.99,Plg21°,Azm75°; N 1.20, Plg30°,Azm178°; P −4.19,Plg52°,Azm315°. Best double couple: $M_0$3.6×10^{17}Nm, NP1: ϕ_S124°,δ36°,λ−149°. NP2:ϕ_S9°,δ73°,λ−58°.

ISC	**XI**	**30 12 10 36**±2.7	**20.8S**±.95	**179.4W**±.50	**500**	**3.6b**	**12 43-150**	
EIDC	XI	30 12 10 41.2	21.4S	179.1W	567	3.2b		**¶97xi5410**
ISC	**XI**	**30 19 03 58**±3.3	**20.0S**±.22	**178.3W**±.18	**585**±42	**4.3b**	**50 14-154**	
NEIC	XI	30 19 03 59.4	20.02S	178.32W	600	4.4b		**¶97xi5450**
EIDC	XI	30 19 03 59.5	20.0S	178.2W	588	3.8b		
BJI	XI	30 19 03 59.7	19.45S	178.25W	584	4.7b		
NEIC	Less reliable solution.							
ISC	**XI**	**30 19 31 41**±2.2	**18.6S**±.70	**178.1W**±.48	**33**	**4.3b**	**7 39-88**	
EIDC	XI	30 19 31 37.5	18.5S	178.0W	0	4.3b		**¶97xi5451**
ISC	**XI**	**30 21 01 12**±3.4	**20.1S**±.33	**178.7W**±.24	**684**±43	**4.1b**	**30 14-149**	
EIDC	XI	30 21 01 08.4	19.9S	178.5W	615	3.6b		**¶97xi5461**
NEIC	XI	30 21 01 09.3	20.16S	178.52W	650	4.3b		
NEIC	Poor solution.							
ISC	**XII**	**02 01 33 16**±2.7	**16.4S**±.57	**177.8W**±.56	**33**	**4.5b**	**12 40-149**	
EIDC	XII	02 01 33 13.3±3.41	16.1S	177.9W	0	4.3b		**¶97xii0168**
NEIC	XII	02 01 33 16.4	16.36S	177.92W	33	4.6b		
EIDC	Error ellipse is semi−major=166.1km semi−minor=25.6km azimuth=140							
NEIC	Poor solution.							
ISC	**XII**	**03 14 34 54**±6.2	**21.8S**±.60	**177.0W**±.38	**234**±51	**3.4b**	**11 15-150**	
EIDC	XII	03 14 34 28.6±1.85	21.4S	176.8W	0	3.9b		**¶97xii0443**
NEIC	XII	03 14 34 50.2	21.77S	176.98W	200	3.1b		
EIDC	Error ellipse is semi−major=116.1km semi−minor=21.6km azimuth=153							
NEIC	Poor solution.							
EIDC	**XII**	**03 22 15 18.6**	**18.9S**	**176.4W**	**0**	**3.7b**		**46-93**
								¶97xii0510

EIDC Origin time error = 12.75Error ellipse is semi−major=565.6km semi−minor=40.8km azimuth=143LO CONF Depth

EIDC	**XII**	**04 00 37 22.9**	**20.9S**	**178.0W**	**0**	**4.1b**		**15-89**
								¶97xii0525

EIDC Origin time error = 11.43Error ellipse is semi−major=507.4km semi−minor=37.4km azimuth=146

Agency	mo	d	Origin Time h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**04**	**06**	**43**	**41**±1.1	**17.88S**±.061	**178.69W**±.053	**530**±14	**4.6b**	**173**	**8-167**
EIDC	XII	04	06	43	46.8±.93	17.4S	179.0W	571±7.0	4.0b		¶**97xii0568**
NEIC	XII	04	06	43	47.3	17.75S	178.87W	600	4.8b		
BJI	XII	04	06	43	48.6	17.41S	178.80W	597	4.6b		
EIDC	Error ellipse is semi-major=33.1km semi-minor=10.7km azimuth=155										
ISC	**XII**	**04**	**08**	**33**	**05**±1.5	**15.8S**±.29	**178.1W**±.16	**348**±22	**3.9b**	**12**	**6-93**
NEIC	XII	04	08	33	05.4	15.85S	178.06W	350	4.4b		¶**97xii0584**
EIDC	XII	04	08	33	06.3±3.28	15.9S	178.0W	342±38.8	3.7b		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi-major=56.8km semi-minor=24.4km azimuth=156										
ISC	**XII**	**05**	**06**	**19**	**34**±3.7	**16.8S**±.85	**178.9W**±.76	**400**	**3.5b**	**7**	**39-146**
EIDC	XII	05	06	19	37.2	17.0S	178.7W	432±240.7	3.2b		¶**97xii0795**
EIDC	Origin time error = 23.02Error ellipse is semi-major=188.3km semi-minor=81.2km azimuth=137										
ISC	**XII**	**05**	**16**	**25**	**56**±1.5	**17.9S**±.29	**178.8W**±.26	**700**	**3.9b**	**7**	**33-86**
EIDC	XII	05	16	25	56.7±1.85	17.9S	178.8W	700	3.2b		¶**97xii0955**
EIDC	Error ellipse is semi-major=51.1km semi-minor=34.0km azimuth=145										
ISC	**XII**	**05**	**17**	**57**	**31.4**±.99	**17.2S**±.36	**179.1W**±.27	**500**	**4.1b**	**12**	**30-87**
NEIC	XII	05	17	57	31.2	17.26S	179.09W	500	4.4b		¶**97xii0997**
EIDC	XII	05	17	57	34.6	17.2S	179.1W	524±280.6	3.5b		
NEIC	Poor solution.										
EIDC	Origin time error = 23.33Error ellipse is semi-major=99.3km semi-minor=72.1km azimuth=175										
ISC	**XII**	**06**	**09**	**17**	**03**±4.4	**17.6S**±.30	**179.0W**±.24	**598**±58	**3.9b**	**26**	**14-151**
EIDC	XII	06	09	17	00.5	17.5S	178.9W	551±130.9	3.5b		¶**97xii1330**
NEIC	XII	06	09	17	03.1	17.60S	179.01W	600	3.9b		
EIDC	Origin time error = 11.15Error ellipse is semi-major=54.6km semi-minor=42.2km azimuth=169										
NEIC	Less reliable solution.										
ISC	**XII**	**06**	**12**	**54**	**00.2**±.86	**17.8S**±.22	**179.7W**±.15	**600**	**4.1b**	**17**	**30-158**
NEIC	XII	06	12	54	00.1	17.84S	179.73W	600	4.4b		¶**97xii1412**
EIDC	XII	06	12	54	03.2±7.75	17.7S	179.7W	618±95.1	3.3b		
NEIC	Poor solution.										
EIDC	Error ellipse is semi-major=41.5km semi-minor=32.7km azimuth=55										
EIDC	**XII**	**07**	**01**	**56**	**20.8**	**19.9S**	**178.6W**	**0**	**3.9b**		**38-44**
											¶**97xii1582**
EIDC	Origin time error = 105.85Error ellipse is semi-major=1914.2km semi-minor=167.4km azimuth=82										
EIDC	**XII**	**07**	**05**	**03**	**44.4**	**20.0S**	**177.5W**	**0**	**3.7b**		**45-88**
											¶**97xii1615**
EIDC	Origin time error = 12.12Error ellipse is semi-major=540.2km semi-minor=40.0km azimuth=145										
ISC	**XII**	**07**	**06**	**58**	**40**±2.0	**21.77S**±.079	**176.68W**±.095	**109**±19	**4.4b**	**68**	**9-158**
NEIC	XII	07	06	58	38.6	21.71S	176.69W	100	4.6b		¶**97xii1641**
EIDC	XII	07	06	58	42.3±4.56	21.7S	176.7W	122±40.0	4.1b		
EIDC	Error ellipse is semi-major=25.0km semi-minor=17.3km azimuth=139										
ISC	**XII**	**07**	**14**	**13**	**49.5**±.59	**18.0S**±.11	**178.2W**±.12	**600**	**4.0b**	**25**	**23-159**
EIDC	XII	07	14	13	49.2±4.00	17.6S	178.4W	573±47.6	3.4b		¶**97xii1716**
NEIC	XII	07	14	13	49.9	17.76S	178.43W	600	4.5b		
EIDC	Error ellipse is semi-major=36.6km semi-minor=16.9km azimuth=154										
NEIC	Less reliable solution.										
ISC	**XII**	**07**	**18**	**30**	**07**±1.3	**20.5S**±.50	**178.9W**±.26	**500**	**3.7b**	**17**	**37-150**
NEIC	XII	07	18	30	06.9	20.60S	178.89W	500	4.1b		¶**97xii1760**
EIDC	XII	07	18	30	08.7±8.58	20.6S	178.9W	509±101.5	3.2b		
NEIC	Poor solution.										
EIDC	Error ellipse is semi-major=100.9km semi-minor=29.5km azimuth=161										
ISC	**XII**	**07**	**20**	**12**	**10**±1.5	**17.4S**±.62	**178.5W**±.41	**509**	**3.5b**	**7**	**39-147**
EIDC	XII	07	20	12	10.9	17.4S	178.4W	509±191.6	3.1b		¶**97xii1782**
EIDC	Origin time error = 16.09Error ellipse is semi-major=112.1km semi-minor=49.0km azimuth=165										
ISC	**XII**	**07**	**23**	**30**	**31**±3.2	**15.9S**±.68	**178.8W**±.62	**33**	**4.4b**	**6**	**39-124**
EIDC	XII	07	23	30	28.2±3.22	15.7S	178.9W	0	4.4b		¶**97xii1811**
EIDC	Error ellipse is semi-major=168.3km semi-minor=31.1km azimuth=142										
ISC	**XII**	**08**	**06**	**25**	**40**±1.3	**16.3S**±.31	**179.6W**±.22	**33**	**4.3b**,4.1s	**14**	**33-149**
EIDC	XII	08	06	25	38.9±1.49	16.2S	179.9W	0	4.3b,4.1s		¶**97xii1880**
NEIC	XII	08	06	25	42.8	16.11S	179.97W	33	4.2b		
EIDC	Error ellipse is semi-major=57.8km semi-minor=24.6km azimuth=147										
NEIC	Poor solution.										
ISC	**XII**	**08**	**11**	**36**	**47**±3.0	**20.1S**±.50	**177.8W**±.51	**500**	**3.7b**	**6**	**34-88**
EIDC	XII	08	11	36	53.1	20.3S	177.8W	562±381.1	3.1b		¶**97xii1918**
EIDC	Origin time error = 32.20Error ellipse is semi-major=146.7km semi-minor=94.2km azimuth=81										
ISC	**XII**	**08**	**19**	**19**	**55**±1.4	**17.4S**±.35	**177.5W**±.27	**500**	**3.7b**	**8**	**16-85**
EIDC	XII	08	19	19	03.4±1.65	17.0S	176.9W	0	3.8b		¶**97xii1995**
NEIC	XII	08	19	19	54.6	17.41S	177.47W	500	4.3b		
EIDC	Error ellipse is semi-major=63.6km semi-minor=25.3km azimuth=142										
NEIC	Poor solution.										
ISC	**XII**	**09**	**01**	**14**	**26**±3.6	**21.4S**±.77	**176.6W**±.64	**0**	**4.1b**	**7**	**39-158**
EIDC	XII	09	01	14	27.8±5.29	21.3S	176.6W	0	4.0b		¶**97xii2066**
EIDC	Error ellipse is semi-major=227.0km semi-minor=38.1km azimuth=142										
ISC	**XII**	**09**	**04**	**50**	**57**±1.9	**17.1S**±.74	**179.1W**±.38	**600**	**3.4b**	**7**	**44-147**
EIDC	XII	09	04	50	56.9	17.1S	179.0W	577±206.6	2.8b		¶**97xii2105**
EIDC	Origin time error = 16.22Error ellipse is semi-major=145.1km semi-minor=54.8km azimuth=165										
ISC	**XII**	**09**	**16**	**24**	**42**±1.9	**19.1S**±.72	**177.9W**±.35	**550**	**3.5b**	**12**	**45-149**
NEIC	XII	09	16	24	41.4	19.27S	177.79W	550	3.7b		¶**97xii2202**
EIDC	XII	09	16	24	44.6±4.44	18.9S	178.0W	565±50.5	2.9b		
NEIC	Poor solution.										
EIDC	Error ellipse is semi-major=137.0km semi-minor=17.8km azimuth=155										
ISC	**XII**	**11**	**01**	**15**	**39**±1.6	**17.0S**±.51	**177.9W**±.30	**371**±22	**3.5b**	**12**	**7-150**
NEIC	XII	11	01	15	37.4	16.78S	178.06W	350	3.4b		¶**97xii2461**
EIDC	XII	11	01	15	39.9±3.16	16.9S	177.9W	369±36.9	3.4b		
NEIC	Poor solution.										
EIDC	Error ellipse is semi-major=99.9km semi-minor=18.5km azimuth=151										
ISC	**XII**	**11**	**11**	**17**	**49**±1.3	**14.5S**±.55	**178.8W**±.36	**33**	**3.9b**	**7**	**40-85**
EIDC	XII	11	11	17	45.3±1.47	14.5S	178.7W	0	4.0b		¶**97xii2549**
EIDC	Error ellipse is semi-major=103.6km semi-minor=21.8km azimuth=148										
ISC	**XII**	**11**	**13**	**29**	**34**±1.2	**16.6S**±.43	**178.5W**±.28	**33**	**4.1b**	**9**	**39-86**
EIDC	XII	11	13	29	31.1±1.62	16.2S	178.6W	0	3.8b		¶**97xii2575**
EIDC	Error ellipse is semi-major=105.7km semi-minor=22.1km azimuth=148										
ISC	**XII**	**12**	**15**	**04**	**01**±1.3	**16.9S**±.35	**177.9W**±.27	**33**	**4.0b**	**6**	**40-86**
EIDC	XII	12	15	03	56.6±1.44	17.0S	177.8W	0	4.0b		¶**97xii2768**
EIDC	Error ellipse is semi-major=61.6km semi-minor=24.9km azimuth=145										
ISC	**XII**	**13**	**04**	**39**	**07**±1.6	**18.15S**±.070	**178.20W**±.062	**588**±21	**5.2b**	**266**	**7-167**
NEIC	XII	13	04	39	06.5	18.09S	178.18W	582	5.3b		¶**97xii2888**
BJI	XII	13	04	39	06.6	17.73S	177.48W	596	5.1b		
EIDC	XII	13	04	39	07.8±.70	18.0S	178.1W	584±7.2	4.4b		
EIDC	Error ellipse is semi-major=16.9km semi-minor=10.9km azimuth=164										
ISC	**XII**	**13**	**05**	**57**	**20**±1.5	**20.1S**±.55	**178.4W**±.31	**600**	**3.7b**	**14**	**38-150**
EIDC	XII	13	05	57	17.9±4.05	20.0S	178.3W	563±49.9	3.1b		¶**97xii2897**
NEIC	XII	13	05	57	19.2	20.19S	178.44W	600	4.0b		
EIDC	Error ellipse is semi-major=110.5km semi-minor=17.0km azimuth=155Multiple, mixed az										
NEIC	Poor solution.										
ISC	**XII**	**13**	**06**	**13**	**20**±2.9	**17.8S**±.12	**178.9W**±.15	**629**±38	**4.7b**	**55**	**14-159**
NEIC	XII	13	06	13	17.6	17.80S	178.79W	600	4.7b		¶**97xii2900**
EIDC	XII	13	06	13	18.5±3.03	17.8S	178.7W	594±36.1	3.9b		
EIDC	Error ellipse is semi-major=30.1km semi-minor=14.3km azimuth=152										
ISC	**XII**	**13**	**09**	**08**	**10**±1.5	**21.5S**±.61	**176.5W**±.37	**33**	**4.0b**,3.7s	**13**	**16-152**
EIDC	XII	13	09	08	06.2±1.83	21.6S	176.3W	0	4.0b,3.7s		¶**97xii2920**
EIDC	Error ellipse is semi-major=117.9km semi-minor=22.0km azimuth=152										
ISC	**XII**	**13**	**14**	**35**	**34**±4.2	**18.2S**±.26	**178.2W**±.21	**563**±55	**3.8b**	**26**	**15-148**
NEIC	XII	13	14	35	36.6	18.37S	178.26W	600	4.2b		¶**97xii2956**
EIDC	XII	13	14	35	37.6±3.34	18.3S	178.2W	594±38.9	3.3b		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi-major=46.1km semi-minor=15.4km azimuth=151										
ISC	**XII**	**13**	**14**	**45**	**39**±4.0	**19.1S**±.92	**177.7W**±.80	**33**	**3.9b**	**5**	**39-87**
EIDC	XII	13	14	45	35.7±4.82	19.0S	177.6W	0	3.9b		¶**97xii2957**
EIDC	Error ellipse is semi-major=210.3km semi-minor=34.9km azimuth=140										
ISC	**XII**	**13**	**14**	**57**	**02**±1.6	**18.6S**±.54	**178.1W**±.37	**600**	**3.5b**	**11**	**39-159**
NEIC	XII	13	14	57	01.7	18.67S	178.08W	600	3.6b		¶**97xii2960**
EIDC	XII	13	14	57	06.2	18.9S	178.0W	643±130.3	2.8b		
NEIC	Poor solution.										
EIDC	Origin time error = 10.11Error ellipse is semi-major=119.0km semi-minor=50.9km azimuth=160										
ISC	**XII**	**14**	**01**	**09**	**27.6**±.92	**17.8S**±.44	**178.7W**±.28	**600**	**4.0b**	**13**	**15-87**
EIDC	XII	14	01	08	29.2±1.66	16.8S	178.1W	0	4.1b		¶**97xii3052**
EIDC	Error ellipse is semi-major=157.6km semi-minor=24.6km azimuth=153LO CONF Depth										
ISC	**XII**	**14**	**08**	**30**	**08**±4.3	**20.4S**±.17	**178.4W**±.22	**559**±51	**3.8b**	**17**	**14-158**
NEIC	XII	14	08	30	07.1	20.40S	178.38W	550	4.2b		¶**97xii3115**
EIDC	XII	14	08	30	08.6±9.11	20.3S	178.3W	556±104.5	3.3b		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi-major=41.9km semi-minor=29.4km azimuth=60										
ISC	**XII**	**14**	**16**	**36**	**39**±1.5	**16.8S**±.68	**178.7W**±.48	**463**	**3.4b**	**9**	**39-146**
EIDC	XII	14	16	36	39.5±2.44	16.7S	178.7W	463±21.2	3.1b		¶**97xii3169**
EIDC	Error ellipse is semi-major=103.4km semi-minor=26.2km azimuth=145										
ISC	**XII**	**14**	**19**	**58**	**47**±1.3	**17.7S**±.14	**178.8W**±.11	**511**±17	**4.4b**	**50**	**8-151**
NEIC	XII	14	19	58	46.5	17.47S	178.90W	500	4.6b		¶**97xii3189**
EIDC	XII	14	19	58	48.5±2.29	17.6S	178.8W	515±24.1	3.8b		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi-major=41.9km semi-minor=16.2km azimuth=152										
ISC	**XII**	**16**	**03**	**11**	**48.4**±.43	**21.6S**±.10	**176.65W**±.093	**200**	**4.4b**	**86**	**9-161**
EIDC	XII	16	03	11	41.7±4.34	21.5S	176.4W	126±37.6	4.4b		¶**97xii3375**
NEIC	XII	16	03	11	48.4	21.65S	176.64W	200	4.6b		
EIDC	Error ellipse is semi-major=21.6km semi-minor=16.4km azimuth=133										
ISC	**XII**	**17**	**02**	**05**	**25.4**±.85	**18.4S**±.36	**177.9W**±.20	**600**	**3.7b**	**12**	**34-148**
NEIC	XII	17	02	05	25.4	18.38S	177.96W	600	3.7b		¶**97xii3536**
EIDC	XII	17	02	05	32.8±8.07	18.5S	178.1W	675±100.4	3.0b		
NEIC	Poor solution.										
EIDC	Error ellipse is semi-major=60.3km semi-minor=38.3km azimuth=138										
ISC	**XII**	**17**	**10**	**44**	**44**±1.1	**16.6S**±.49	**178.4W**±.32	**78**	**4.2b**	**11**	**39-93**
EIDC	XII	17	10	44	46.1±2.07	16.4S	178.4W	78±14.2	4.0b		¶**97xii3593**
EIDC	Error ellipse is semi-major=108.0km semi-minor=21.0km azimuth=149										
ISC	**XII**	**17**	**10**	**48**	**03**±4.1	**20.5S**±.10	**176.99W**±.084	**254**±41	**4.4b**	**67**	**16-150**
NEIC	XII	17	10	48	06.9	20.57S	177.01W	300	4.6b		¶**97xii3594**
EIDC	XII	17	10	48	14.3	20.4S	177.2W	349±110.8	3.8b		
EIDC	Origin time error = 11.09Error ellipse is semi-major=31.2km semi-minor=23.9km azimuth=93										
ISC	**XII**	**18**	**05**	**29**	**12**±1.3	**18.87S**±.086	**177.93W**±.090	**432**±15	**4.3b**	**74**	**8-166**
BJI	XII	18	05	29	18.5	18.80S	178.10W	500	4.3b		¶**97xii3713**
NEIC	XII	18	05	29	18.5	18.85S	178.13W	500	4.4b		
EIDC	XII	18	05	29	18.7±3.22	18.8S	178.1W	484±35.0	3.9b		
EIDC	Error ellipse is semi-major=20.9km semi-minor=13.9km azimuth=153										
ISC	**XII**	**18**	**06**	**21**	**43**±2.3	**19.8S**±.77	**178.2W**±.54	**33**	**4.0b**	**7**	**31-89**
EIDC	XII	18	06	21	39.4±2.86	19.8S	178.1W	0	3.9b		¶**97xii3723**
EIDC	Error ellipse is semi-major=156.6km semi-minor=28.1km azimuth=148										
ISC	**XII**	**18**	**06**	**35**	**56**±3.5	**20.1S**±.18	**178.2W**±.17	**571**±44	**4.0b**	**25**	**14-158**
NEIC	XII	18	06	35	50.4	20.03S	178.07W	500	4.2b		¶**97xii3728**
EIDC	XII	18	06	35	50.6±8.50	19.9S	178.0W	486±97.8	3.6b		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi-major=33.8km semi-minor=27.2km azimuth=25										
ISC	**XII**	**18**	**12**	**22**	**51**±4.4	**21.3S**±.56	**179.0W**±.39	**561**±48	**3.6b**	**16**	**14-151**
NEIC	XII	18	12	22	45.2	21.39S	178.72W	500	3.9b		¶**97xii3762**
EIDC	XII	18	12	22	46.8	21.1S	178.8W	500±128.1	3.1b		
NEIC	Poor solution.										
EIDC	Origin time error = 11.01Error ellipse is semi-major=130.5km semi-minor=44.7km azimuth=157										
ISC	**XII**	**18**	**15**	**44**	**25**±1.0	**20.3S**±.33	**177.9W**±.21	**550**	**3.9b**	**18**	**31-158**
NEIC	XII	18	15	44	24.9	20.31S	177.89W	550	4.0b		¶**97xii3788**
EIDC	XII	18	15	44	28.3±9.13	20.2S	177.9W	571±107.5	3.3b		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi-major=62.8km semi-minor=40.8km azimuth=156										
ISC	**XII**	**18**	**18**	**01**	**37**±1.5	**20.0S**±.25	**177.5W**±.24	**33**	**3.8b**	**7**	**38-88**
EIDC	XII	18	18	01	34.0±1.64	19.9S	177.4W	0	3.9b		¶**97xii3800**
EIDC	Error ellipse is semi-major=40.7km semi-minor=36.5km azimuth=146										
ISC	**XII**	**19**	**17**	**23**	**34**±3.2	**21.0S**±.19	**179.3W**±.19	**644**±42	**3.9b**	**21**	**13-150**
NEIC	XII	19	17	23	30.7	21.03S	179.11W	600	4.3b		¶**97xii4002**
EIDC	XII	19	17	23	33.6±2.32	20.9S	179.2W	620±27.2	3.4b		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi-major=28.8km semi-minor=13.9km azimuth=161										
ISC	**XII**	**19**	**21**	**37**	**54**±1.4	**17.8S**±.55	**178.6W**±.32	**500**	**3.7b**	**10**	**33-87**
EIDC	XII	19	21	37	56.6	17.8S	178.5W	516±284.4	3.1b		¶**97xii4038**
EIDC	Origin time error = 23.82Error ellipse is semi-major=104.4km semi-minor=71.5km azimuth=175										
EIDC	**XII**	**20**	**00**	**42**	**20.7**	**19.7S**	**177.9W**	**0**	**3.6b**		**45-87**
											¶**97xii4059**
EIDC	Origin time error = 12.58Error ellipse is semi-major=559.9km semi-minor=37.1km azimuth=145										
ISC	**XII**	**20**	**07**	**09**	**44**±3.1	**20.2S**±.73	**177.9W**±.57	**550**	**3.9b**	**8**	**15-150**
EIDC	XII	20	07	09	23.7	20.3S	177.1W	330±190.1	3.6b		¶**97xii4093**
EIDC	Origin time error = 20.63Error ellipse is semi-major=147.4km semi-minor=68.2km azimuth=139										
ISC	**XII**	**21**	**11**	**33**	**24**±1.4	**16.7S**±.56	**178.3W**±.35	**33**	**3.9b**	**8**	**39-86**
EIDC	XII	21	11	33	20.5±1.67	16.7S	178.2W	0	3.7b		¶**97xii4248**
EIDC	Error ellipse is semi-major=114.2km semi-minor=22.7km azimuth=149										
ISC	**XII**	**21**	**14**	**12**	**27.0**±.95	**19.6S**±.20	**177.3W**±.16	**450**	**3.9b**	**16**	**32-150**
EIDC	XII	21	14	12	29.7±1.74	19.6S	177.4W	470±15.8	3.5b		¶**97xii4261**
NEIC	XII	21	14	12	31.3	19.64S	177.45W	500	4.2b		
EIDC	Error ellipse is semi-major=32.1km semi-minor=23.5km azimuth=155										
NEIC	Less reliable solution.										

ISC XII 21 20 53 48±2.1 **20.5S**±.90 **179.0W**±.49 **500** **3.5b** **9 44-151**
EIDC XII 21 20 53 51.0 20.6S 179.0W 525±118.4 3.1b **¶97xii4302**
EIDC Origin time error = 10.67Error ellipse is semi−major=135.6km semi−minor=41.3km azimuth=157
ISC XII 22 00 20 39±3.7 **14.4S**±.84 **177.8W**±.81 **33** **4.0b** **6 41-82**
EIDC XII 22 00 20 38.4±4.95 14.4S 177.7W 18±9.5 3.7b **¶97xii4325**
EIDC Error ellipse is semi−major=211.2km semi−minor=32.1km azimuth=137
ISC XII 22 01 04 46±2.1 **19.9S**±.86 **179.1W**±.43 **550** **3.4b** **7 44-149**
EIDC XII 22 01 04 49.4 20.0S 179.1W 580±167.3 3.0b **¶97xii4332**
EIDC Origin time error = 13.31Error ellipse is semi−major=141.6km semi−minor=51.2km azimuth=163
ISC XII 22 09 50 53±1.4 **19.44S**±.082 **177.66W**±.084 **344**±15 **4.0b** **46 8-159**
EIDC XII 22 09 50 54.1±3.26 19.3S 177.7W 337±32.5 3.8b **¶97xii4396**
NEIC XII 22 09 50 58.4 19.42S 177.80W 400 4.1b
EIDC Error ellipse is semi−major=27.3km semi−minor=16.1km azimuth=148
NEIC Less reliable solution.
ISC XII 22 16 32 00±1.5 **16.4S**±.81 **178.5W**±.44 **33** **4.2b** **8 39-160**
EIDC XII 22 16 31 56.4±1.65 16.4S 178.4W 0 4.3b **¶97xii4449**
EIDC Error ellipse is semi−major=153.7km semi−minor=23.2km azimuth=152
ISC XII 22 22 14 02±1.6 **15.7S**±.43 **178.1W**±.24 **404**±23 **3.9b** **26 6-151**
NEIC XII 22 22 14 01.9 15.61S 178.11W 400 3.8b **¶97xii4492**
EIDC XII 22 22 14 03.2±3.05 15.6S 178.1W 399±39.1 3.6b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=88.5km semi−minor=16.2km azimuth=153
EIDC XII 23 11 30 31.1±9.12 **15.7S** **179.8W** **0** **3.7b** **39-87**
¶97xii4589
EIDC Error ellipse is semi−major=239.7km semi−minor=75.4km azimuth=118
ISC XII 23 16 26 37±1.4 **16.5S**±.46 **178.4W**±.30 **33** **4.1b** **10 32-85**
EIDC XII 23 16 26 33.4±1.76 16.6S 178.2W 0 4.0b **¶97xii4626**
EIDC Error ellipse is semi−major=106.4km semi−minor=24.5km azimuth=150
ISC XII 24 07 54 00±1.8 **20.2S**±.71 **178.1W**±.36 **500** **3.7b** **17 33-150**
NEIC XII 24 07 53 58.8 20.39S 178.01W 500 3.9b **¶97xii4720**
EIDC XII 24 07 54 02.0±8.51 20.1S 178.1W 516±93.9 3.3b
NEIC Poor solution.
EIDC Error ellipse is semi−major=115.6km semi−minor=34.9km azimuth=159
ISC XII 24 09 13 07±1.8 **21.4S**±.63 **176.6W**±.38 **33** **3.9b** **8 16-89**
EIDC XII 24 09 13 03.6±2.03 21.3S 176.5W 0 3.9b **¶97xii4729**
EIDC Error ellipse is semi−major=124.7km semi−minor=26.6km azimuth=152
ISC XII 24 17 22 38±4.1 **20.0S**±.26 **178.7W**±.28 **656**±51 **4.0b** **18 14-150**
EIDC XII 24 17 22 24.3 19.8S 178.2W 480±114.2 3.5b **¶97xii4789**
NEIC XII 24 17 22 25.3 19.89S 178.32W 500 4.2b
EIDC Origin time error = 10.58Error ellipse is semi−major=50.9km semi−minor=40.7km azimuth=127
NEIC Less reliable solution.
ISC XII 24 23 11 00±3.7 **20.3S**±.34 **179.0W**±.32 **707**±48 **3.8b** **24 14-157**
NEIC XII 24 23 10 43.7 19.90S 178.51W 500 4.0b **¶97xii4839**
EIDC XII 24 23 10 47.0 19.8S 178.6W 523±118.3 3.4b
NEIC Poor solution.
EIDC Origin time error = 10.52Error ellipse is semi−major=114.4km semi−minor=45.8km azimuth=153
EIDC XII 25 03 03 40.8±1.86 **19.4S** **178.4W** **0** **3.4b** **38-87**
¶97xii4858
EIDC Error ellipse is semi−major=179.7km semi−minor=30.2km azimuth=157
ISC XII 25 12 50 39±3.3 **17.7S**±.20 **178.9W**±.20 **635**±43 **4.2b** **29 14-159**
NEIC XII 25 12 50 36.4 17.72S 178.75W 600 4.2b **¶97xii4933**
EIDC XII 25 12 50 39.2±7.37 17.8S 178.7W 617±88.1 3.5b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=49.2km semi−minor=28.4km azimuth=128
ISC XII 26 03 58 01±2.6 **18.0S**±.15 **178.7W**±.14 **625**±34 **4.5b** **45 8-148**
EIDC XII 26 03 57 56.9±2.52 17.9S 178.4W 567±30.0 3.9b **¶97xii5040**
NEIC XII 26 03 57 58.5 17.97S 178.63W 600 4.6b
EIDC Error ellipse is semi−major=26.8km semi−minor=15.5km azimuth=151
ISC XII 26 07 16 49±1.4 **16.3S**±.39 **178.8W**±.32 **33** **4.1b** **11 30-86**
EIDC XII 26 07 16 44.9±2.34 16.4S 178.7W 0 3.8b **¶97xii5076**
EIDC Error ellipse is semi−major=132.2km semi−minor=25.5km azimuth=144
ISC XII 26 15 23 26±1.4 **20.0S**±.38 **178.3W**±.27 **500** **3.7b** **12 31-150**
EIDC XII 26 15 22 34.8±1.86 19.2S 177.8W 0 3.9b **¶97xii5163**
NEIC XII 26 15 23 26.0 20.01S 178.41W 500 4.0b
EIDC Error ellipse is semi−major=79.2km semi−minor=26.2km azimuth=147
NEIC Poor solution.
ISC XII 26 18 37 44±1.4 **16.6S**±.56 **177.9W**±.35 **33** **4.0b** **8 40-86**
EIDC XII 26 18 37 40.6±1.60 16.6S 177.8W 0 4.0b **¶97xii5186**
NEIC XII 26 18 37 44.1 16.67S 177.84W 33 3.9b
EIDC Error ellipse is semi−major=106.7km semi−minor=22.1km azimuth=149
NEIC Poor solution.
ISC XII 26 23 31 34±2.3 **16.8S**±.87 **177.8W**±.51 **33** **3.5b** **4 45-85**
EIDC XII 26 23 31 30.0±2.39 16.7S 177.8W 0 3.5b **¶97xii5207**
ISC Poorly determined
EIDC Error ellipse is semi−major=146.4km semi−minor=29.8km azimuth=152
ISC XII 27 05 17 31.9±.99 **20.7S**±.24 **178.1W**±.18 **350** **3.5b** **17 22-151**
NEIC XII 27 05 17 36.9 20.74S 178.23W 400 3.6b **¶97xii5254**
EIDC XII 27 05 17 37.3 20.6S 178.2W 388±143.1 3.3b
NEIC Poor solution.
EIDC Origin time error = 14.14Error ellipse is semi−major=52.4km semi−minor=35.3km azimuth=61
EIDC XII 28 13 46 05.6±3.39 **19.3S** **177.2W** **0** **4.0b** **39-149**
¶97xii5456
EIDC Error ellipse is semi−major=190.0km semi−minor=38.7km azimuth=147LO CONF Depth
ISC XII 29 14 05 00±1.3 **17.9S**±.23 **178.6W**±.15 **576**±18 **4.3b** **28 8-159**
NEIC XII 29 14 04 59.9 17.93S 178.52W 576 4.4b **¶97xii5592**
EIDC XII 29 14 05 01.5±2.66 17.9S 178.4W 576±32.9 3.8b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=49.3km semi−minor=17.3km azimuth=155
EIDC XII 29 16 05 07.2 **20.6S** **177.3W** **0** **4.0b** **38-58**
¶97xii5610
EIDC Origin time error = 10.90Error ellipse is semi−major=255.8km semi−minor=37.4km azimuth=36LO CONF Location
ISC XII 29 22 21 58±1.0 **19.9S**±.24 **178.4W**±.20 **550** **3.5b** **11 44-150**
NEIC XII 29 22 21 57.6 19.93S 178.40W 550 3.4b **¶97xii5645**
EIDC XII 29 22 21 58.6 19.8S 178.4W 544±121.6 3.1b
NEIC Poor solution.
EIDC Origin time error = 10.89Error ellipse is semi−major=46.1km semi−minor=36.4km azimuth=52
ISC XII 30 11 44 16±4.1 **21.6S**±.13 **176.6W**±.13 **224**±38 **4.3b** **90 9-163**
EIDC XII 30 11 44 08.6±4.57 21.6S 176.4W 147±39.0 4.2b **¶97xii5727**
BJI XII 30 11 44 13.1 21.50S 176.50W 200 5.2b
NEIC XII 30 11 44 13.1 21.56S 176.54W 200 4.5b
EIDC Error ellipse is semi−major=33.3km semi−minor=15.4km azimuth=144
ISC XII 30 13 28 48±1.4 **17.4S**±.23 **179.0W**±.17 **502**±21 **4.2b** **27 8-147**
NEIC XII 30 13 28 47.4 17.40S 179.02W 500 4.8b **¶97xii5739**
EIDC XII 30 13 28 48.4±3.03 17.3S 179.0W 492±38.8 3.4b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=58.9km semi−minor=18.1km azimuth=152
ISC XII 30 15 54 31.4±.63 **18.5S**±.20 **177.8W**±.14 **550** **4.0b** **52 30-154**
EIDC XII 30 15 54 30.2±7.83 18.4S 177.7W 525±88.0 3.5b **¶97xii5752**
NEIC XII 30 15 54 31.2 18.48S 177.80W 550 4.2b
EIDC Error ellipse is semi−major=34.7km semi−minor=31.8km azimuth=169
NEIC Less reliable solution.
ISC XII 30 20 19 37±1.9 **16.5S**±.75 **179.7W**±.44 **700** **3.1b** **6 44-94**
EIDC XII 30 20 19 38.5±2.01 16.6S 179.6W 700 2.7b **¶97xii5785**
EIDC Error ellipse is semi−major=121.2km semi−minor=22.4km azimuth=152
ISC XII 31 08 00 58±2.4 **19.3S**±.80 **177.7W**±.57 **33** **3.7b** **5 39-88**
EIDC XII 31 08 00 53.6±2.68 19.4S 177.5W 0 3.7b **¶97xii5859**
EIDC Error ellipse is semi−major=152.8km semi−minor=26.7km azimuth=148
EIDC XII 31 09 15 47.1 **20.2S** **177.8W** **341**±18.2 **3.3b** **45-88**
¶97xii5868
EIDC Origin time error = 11.97Error ellipse is semi−major=526.9km semi−minor=37.9km azimuth=145
EIDC XII 31 09 56 07.2±4.28 **18.2S** **176.6W** **0** **3.9b** **40-148**
¶97xii5874
EIDC Error ellipse is semi−major=196.8km semi−minor=47.3km azimuth=142
ISC XII 31 19 01 47±1.0 **18.4S**±.26 **177.8W**±.21 **650** **3.5b** **11 39-159**
NEIC XII 31 19 01 46.8 18.44S 177.83W 650 3.8b **¶97xii5951**
EIDC XII 31 19 01 48.8±8.89 18.4S 177.8W 653±110.2 3.0b
NEIC Poor solution.
EIDC Error ellipse is semi−major=46.7km semi−minor=37.6km azimuth=56
ISC XII 31 19 21 40±1.4 **17.1S**±.57 **178.3W**±.38 **33** **3.6b** **7 39-94**
EIDC XII 31 19 21 36.4±1.65 17.1S 178.2W 0 3.7b **¶97xii5956**
EIDC Error ellipse is semi−major=106.4km semi−minor=21.2km azimuth=148
EIDC XII 31 22 31 26.7 **17.8S** **177.8W** **0** **3.9b** **39-45**
¶97xii5990
EIDC Origin time error = 111.37Error ellipse is semi−major=2035.1km semi−minor=188.1km azimuth=79LO CONF Location

(182) Fiji.

EIDC VII 13 14 06 42.6 **15.0S** **178.6E** **0** 3.7b **43-144**
¶97vii1976
ISC VII 25 02 43 40±1.4 **16.2S**±.60 **177.1E**±.29 **33** **4.0b,4.3s** **19 41-156**
EIDC VII 25 02 43 35.1 16.3S 177.2E 0 4.0s,3.9b **¶97vii3758**
NEIC VII 25 02 43 39.0 16.30S 177.17E 33 4.6b
NEIC Poor solution.
EIDC VII 26 10 34 34.5 **16.7S** **177.0E** **0** **3.8b** **41-86**
¶97vii3953
ISC VIII 15 18 39 59±3.0 **17.4S**±.34 **179.0E**±.26 **642**±36 **4.1b** **26 13-146**
NEIC VIII 15 18 39 56.0 17.49S 179.13E 600 4.4b **¶97viii2251**
EIDC VIII 15 18 39 56.9 17.1S 179.1E 595 3.2b
NEIC Poor solution.
ISC VIII 20 04 24 59±1.0 **16.1S**±.29 **177.6E**±.22 **33** **4.2b** **14 33-145**
NEIC VIII 20 04 24 59.2 16.14S 177.60E 33 4.8b **¶97viii2906**
EIDC VIII 20 04 24 59.8 15.9S 177.5E 23 4.0b
NEIC Less reliable solution.
EIDC IX 01 02 27 00.8 **17.0S** **177.1E** **0** **4.1b** **¶97ix0025**
EIDC IX 09 13 00 33.4 **16.9S** **179.3E** **0** **3.6b** **¶97ix1380**
EIDC LO CONF Location
ISC IX 25 07 43 41±2.4 **17.7S**±.11 **179.7E**±.11 **571**±30 **4.5b** **59 13-160**
NEIC IX 25 07 43 39.6 17.49S 179.71E 550 4.8b **¶97ix3702**
EIDC IX 25 07 43 40.6 17.5S 179.7E 546 3.7b
NEIC Less reliable solution.
ISC X 06 06 57 19±3.8 **16.38S**±.088 **178.15E**±.092 **59**±33 **4.8b,4.5s** **78 12-157**
BJI X 06 06 57 14.4 16.30S 178.20E 23 4.8b **¶97x1010**
NEIC X 06 06 57 14.4 16.33S 178.20E 23 5.0b,4.6s
EIDC X 06 06 57 15.8 16.4S 178.3E 21 4.5b,4.4s
HRVD X 06 06 57 19.2±1.2 16.44S±.13 178.05E±.12 15
NEIC Mw5.2(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.01±.41; $M_{\theta\theta}$−0.91±.78; $M_{\phi\phi}$1.92±.58; $M_{r\theta}$3.64±1.56; $M_{r\phi}$0.13±1.63; $M_{\theta\phi}$4.64±.39. Principal Axes: T 6.17,Plg20°,Azm312°; N −0.07,Plg52°,Azm69°; P −6.10,Plg31°,Azm210°. Best double couple: $M_0$6.1×10^{16}Nm, NP1: ϕ_S354°,δ53°,λ−171°. NP2:ϕ_S259°,δ83°,λ−38°.
EIDC X 10 20 38 33.7 **17.1S** **179.1E** **0** **3.9b** **¶97x1797**
EIDC X 17 00 10 54.7 **18.7S** **179.6E** **44** **3.6b,**3.6s **¶97x2905**
EIDC X 21 00 09 28.7 **15.9S** **179.1E** **0** **4.0b** **¶97x3578**
ISC X 22 12 54 26.7±.70 **16.9S**±.11 **178.7E**±.13 **33** **4.0b** **14 24-89**
EIDC X 22 12 54 23.2 16.9S 178.7E 0 4.0b **¶97x3815**
NEIC X 22 12 54 26.9 16.83S 178.62E 33 4.5b
NEIC Poor solution.
ISC X 23 18 50 09±2.4 **16.8S**±.45 **178.5E**±.44 **33** **4.1b** **9 29-86**
EIDC X 23 18 50 05.4 16.7S 178.5E 0 4.0b **¶97x4046**
ISC X 29 05 29 39.6±.68 **16.4S**±.20 **178.0E**±.15 **33** **4.1b** **15 36-146**
EIDC X 29 05 29 38.4 16.3S 178.1E 17 4.0b **¶97x4858**
NEIC X 29 05 29 39.7 16.23S 178.00E 33 4.6b
NEIC Less reliable solution.
ISC X 29 05 49 41±3.2 **16.3S**±.65 **178.1E**±.62 **33** **4.1b** **7 37-85**
EIDC X 29 05 49 37.9 16.1S 178.1E 0 4.1b **¶97x4861**
ISC X 30 04 11 39.8±.56 **16.6S**±.17 **177.8E**±.15 **33** **4.4b,4.0s** **21 36-145**
EIDC X 30 04 11 36.0 16.6S 177.9E 0 4.3b,4.0s **¶97x4989**
NEIC X 30 04 11 39.7 16.62S 177.82E 33 4.6b
NEIC Poor solution.
ISC X 30 10 14 17±3.9 **16.1S**±.93 **177.9E**±.88 **33** **3.9b,**3.7s **4 37-85**
EIDC X 30 10 14 14.3 15.9S 177.9E 0 4.0b,3.7s **¶97x5021**
ISC Poorly determined
ISC XI 01 09 53 31±5.1 **17.9S**±.29 **177.3E**±.75 **33** **4.3b** **13 26-71**
EIDC XI 01 09 52 13.5 15.4S 173.2W 0 4.5b **¶97xi0054**
EIDC LO CONF LocationLO CONF Depth
EIDC XI 23 13 41 55.9 **16.6S** **177.6E** **0** **3.7b** **¶97xi4128**
EIDC XI 24 15 43 49.8 **16.8S** **177.8E** **0** **3.8b** **¶97xi4343**
ISC XI 26 04 04 55.3±.90 **15.9S**±.23 **178.5E**±.20 **33** **3.9b** **13 37-145**
EIDC XI 26 04 04 54.2 15.9S 178.6E 17 3.8b **¶97xi4628**
NEIC XI 26 04 04 55.1 15.89S 178.56E 33
NEIC Poor solution.
EIDC XII 12 05 01 17.8 **18.6S** **178.9E** **0** **3.9b** **42-87**
¶97xii2697
EIDC Origin time error = 17.05Error ellipse is semi−major=530.3km semi−minor=88.3km azimuth=134LO CONF Location
ISC XII 24 10 21 30±1.5 **16.4S**±.59 **177.7E**±.35 **33** **3.8b** **6 36-88**
EIDC XII 24 10 21 25.9±1.88 16.3S 177.8E 0 3.9b **¶97xii4744**
EIDC Error ellipse is semi−major=105.5km semi−minor=32.8km azimuth=153

Agency		Origin Time mo d h m s		φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**VII**	**05 22 46 41.0**±.17	**11.55S**±.037	**164.80E**±.032	**33**	**5.3b,4.9s**	**269**	**5-169**		
EIDC	VII	05 22 46 36.9	11.5S	165.0E	0	5.0b,4.6s				**¶97vii0803**
BJI	VII	05 22 46 40.5	11.44S	164.86E	29	5.4b,5.0s				
NEIC	VII	05 22 46 41.0	11.55S	164.80E	33	5.5b,5.0s				
MOS	VII	05 22 46 41.4	11.4S	164.8E	33	5.8b,4.7s				
HRVD	VII	05 22 46 43.4±.2	11.57S±.03	164.69E±.02	28					
NEIC	Mw5.4(HRV), Mw5.3(GS).									
NEIC	Moment tensor solution: s19, scale 10^{16}Nm; M_{rr}−9.40; $M_{\theta\theta}$2.10; $M_{\phi\phi}$7.30; $M_{r\theta}$0.60; $M_{r\phi}$3.60; $M_{\theta\phi}$−4.80. Depth 13km; Principal axes: T 10.5,Plg8°,Azm241°; N −0.2,Plg13°,Azm333°; P −10.4,Plg74°,Azm121°. Best double couple: $M_0$1.0×10^{17}Nm; NP1:ϕ_S316°,δ39°,λ−112°. NP2: ϕ_S163°,δ54°,λ−74°.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c79; Mantle waves: s2,c2; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.33±.03; $M_{\theta\theta}$−0.18±.04; $M_{\phi\phi}$1.51±.05; $M_{r\theta}$−0.33±.07; $M_{r\phi}$0.03±.09; $M_{\theta\phi}$−0.48±.03. Principal Axes: T 1.64,Plg2°,Azm255°; N −0.22,Plg16°,Azm164°; P −1.42,Plg74°,Azm353°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S0°,δ45°,λ−68°. NP2:ϕ_S150°,δ49°,λ−111°.									
EIDC	**VII**	**21 06 05 21.0**	**12.5S**	**165.0E**	**0**	**4.0b**				**10-146**
										¶97vii3205
EIDC	**VII**	**22 10 44 46.5**	**11.9S**	**171.8E**	**0**	**4.1b**				**7-38**
										¶97vii3362
EIDC	**VII**	**27 14 59 03.3**	**11.4S**	**165.0E**	**0**	**3.6b**				**11-84**
										¶97vii4123
ISC	**VIII**	**05 05 51 04**±1.7	**13.0S**±.19	**169.4E**±.28	**33**	**3.6b**			**5**	**9-84**
EIDC	VIII	05 05 51 00.7	12.8S	169.5E	0	3.6b				**¶97viii0620**
ISC	**VIII**	**14 14 02 02**±1.5	**10.71S**±.048	**164.72E**±.050	**34**±14	**4.9b,5.1s**	**188**	**5-151**		
NEIC	VIII	14 14 02 02.6	10.73S	164.69E	47	4.9b,5.1s				**¶97viii2073**
BJI	VIII	14 14 02 02.9	10.47S	164.16E	15	5.2b,5.3s				
EIDC	VIII	14 14 02 03.3	10.8S	164.8E	44	4.4b,5.0s				
MOS	VIII	14 14 02 05.3	10.7S	164.5E	57	5.6b				
HRVD	VIII	14 14 02 05.6±.4	10.52S±.04	164.76E±.05	38±3.4					
NEIC	Mw5.5(HRV).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c48; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.53±.06; $M_{\theta\theta}$0.63±.05; $M_{\phi\phi}$−0.10±.09; $M_{r\theta}$−1.18±.10; $M_{r\phi}$−1.16±.11; $M_{\theta\phi}$0.31±.07. Principal Axes: T 1.82,Plg35°,Azm146°; N −0.07,Plg11°,Azm49°; P −1.75,Plg53°,Azm303°. Best double couple: $M_0$1.8×10^{17}Nm, NP1: ϕ_S277°,δ15°,λ−40°. NP2:ϕ_S47°,δ81°,λ−101°.									
ISC	**VIII**	**14 14 13 47**±2.1	**10.69S**±.080	**164.7E**±.12	**38**±19	**4.1b**			**23**	**5-149**
BJI	VIII	14 14 13 46.4	10.70S	164.60E	33					**¶97viii2076**
NEIC	VIII	14 14 13 46.4	10.70S	164.65E	33	4.3b				
EIDC	VIII	14 14 13 50.9	10.7S	164.6E	59	3.8b,4.3L				
NEIC	Less reliable solution.									
ISC	**VIII**	**14 15 04 08.1**±.90	**10.74S**±.099	**164.7E**±.15	**33**	**4.0b**			**13**	**5-149**
NEIC	VIII	14 15 04 08.5	10.74S	164.61E	33					**¶97viii2085**
EIDC	VIII	14 15 04 18.6	10.7S	164.2E	87	3.6b				
NEIC	Less reliable solution.									
ISC	**VIII**	**14 15 09 00.9**±.87	**10.72S**±.084	**164.6E**±.16	**33**	**4.0b**			**18**	**11-149**
EIDC	VIII	14 15 08 57.9	10.6S	164.5E	0	4.1b,4.1L				**¶97viii2086**
BJI	VIII	14 15 09 00.7	10.70S	164.60E	33	4.4b				
NEIC	VIII	14 15 09 00.7	10.72S	164.55E	33	4.0b				
NEIC	Less reliable solution.									
ISC	**VIII**	**26 01 34 53**±1.2	**10.5S**±.36	**169.2E**±.14	**59**	**4.3b**			**6**	**19-83**
EIDC	VIII	26 01 34 54.7	10.3S	169.1E	59	4.1b				**¶97viii3767**
EIDC	**VIII**	**31 19 54 02.4**	**11.8S**	**164.5E**	**0**	3.4b				**30-138**
										¶97viii4701
EIDC	**IX**	**20 10 00 16.6**	**9.0S**	**164.9E**	**0**	**3.6b**				**¶97ix2925**
EIDC	**IX**	**22 05 16 52.9**	**11.9S**	**168.0E**	**0**	**3.7b**				**¶97ix3221**
ISC	**IX**	**27 22 53 47**±1.4	**10.6S**±.16	**164.4E**±.19	**45**±6.7*	**3.6b**			**6**	**12-84**
EIDC	IX	27 22 53 49.2	10.6S	164.5E	44	3.5b,3.8L				**¶97ix4473**
ISC	**X**	**24 18 07 55**±6.5	**11.1S**±.20	**164.7E**±.38	**63**±49	**3.6b**			**9**	**5-84**
NEIC	X	24 18 07 53.5	11.11S	164.77E	50					**¶97x4208**
EIDC	X	24 18 07 55.3	11.1S	164.9E	52	3.5b,4.1L				
NEIC	Single network solution.									
ISC	**XI**	**01 15 21 31**±4.9	**10.69S**±.087	**164.7E**±.13	**23**±34	**4.5b**,4.2s			**24**	**5-94**
EIDC	XI	01 15 21 28.6	10.8S	164.8E	0	4.2b,4.4s				**¶97xi0098**
BJI	XI	01 15 21 32.2	10.51S	164.63E	28	4.7b				
NEIC	XI	01 15 21 32.3	10.71S	164.68E	33	4.7b				
NEIC	Less reliable solution.									
EIDC	**XI**	**14 00 28 07.4**	**9.7S**	**171.4E**	**0**	**3.8b**				**¶97xi2210**
ISC	**XI**	**16 17 41 52**±1.8	**8.1S**±.37	**169.8E**±.34	**33**	**3.8b**,3.2s			**4**	**38-81**
EIDC	XI	16 17 41 48.1	8.2S	169.9E	0	3.9b,3.2s				**¶97xi2678**
ISC	Poorly determined									
EIDC	**XI**	**30 18 28 09.1**	**12.1S**	**169.3E**	**432**	**3.3b**				**¶97xi5445**
ISC	**XII**	**04 14 22 02**±8.2	**10.3S**±.69	**164.5E**±.71	**56**±24	**3.9b**			**9**	**5-146**
EIDC	XII	04 14 22 05.2±3.58	10.1S	163.4E	0	4.1b,3.8L				**¶97xii0625**
EIDC	Error ellipse is semi−major=90.1km semi−minor=59.5km azimuth=139									
EIDC	**XII**	**06 08 51 49.3**	**12.7S**	**171.3E**	**0**	**4.0b**				**10-78**
										¶97xii1316
EIDC	Origin time error = 18.13Error ellipse is semi−major=452.0km semi−minor=38.4km azimuth=117									

(184) Santa Cruz Islands.

ISC	**VII**	**04 04 24 55.4**±.96	**10.4S**±.11	**166.2E**±.17	**100**	**3.7b**			**9**	**12-148**
EIDC	VII	04 04 24 56.3	11.1S	166.6E	118	3.5b				**¶97vii0494**
ISC	**VII**	**09 02 07 02**±3.3	**12.06S**±.097	**166.6E**±.10	**93**±29	**4.5b**			**48**	**6-170**
BJI	VII	09 02 07 01.5	12.11S	166.57E	88	4.8b				**¶97vii1276**
NEIC	VII	09 02 07 01.8	12.08S	166.66E	98	4.8b				
EIDC	VII	09 02 07 02.5	12.1S	166.7E	93	4.2b,3.9s				
EIDC	**VII**	**15 05 43 34.9**	**12.8S**	**166.4E**	**0**	**3.4b**				**9-147**
										¶97vii2259
ISC	**VII**	**27 22 42 18**±4.3	**11.4S**±.18	**166.2E**±.15	**147**±42	**3.9b**			**15**	**11-151**
EIDC	VII	27 22 42 00.1	11.4S	166.8E	0	4.2b				**¶97vii4173**
NEIC	VII	27 22 42 13.3	11.23S	166.23E	100	4.3b				
NEIC	Less reliable solution.									
ISC	**VII**	**28 00 39 28**±2.7	**11.8S**±.10	**166.5E**±.10	**156**±24	**4.3b**			**37**	**10-151**
NEIC	VII	28 00 39 25.6	11.68S	166.40E	131	4.5b				**¶97vii4191**
BJI	VII	28 00 39 25.7	11.76S	166.68E	143	4.5b				
EIDC	VII	28 00 39 26.8	11.8S	166.5E	126	4.0b,3.5s				
ISC	**VII**	**29 22 35 15**±2.6	**11.9S**±.62	**166.8E**±.65	**33**	**3.8b**			**4**	**31-84**
EIDC	VII	29 22 35 12.0	11.9S	166.9E	0	3.8b				**¶97vii4493**
ISC	Poorly determined									
EIDC	**VIII**	**13 09 47 43.1**	**12.2S**	**167.5E**	**0**	**3.5b**				**22-149**
										¶97viii1887
ISC	**VIII**	**17 22 23 20**±2.7	**13.0S**±.62	**167.0E**±.64	**0**	**3.7b**			**5**	**30-148**
EIDC	VIII	17 22 23 22.8	12.7S	166.8E	0	3.6b				**¶97viii2593**
ISC	Poorly determined									
ISC	**VIII**	**18 23 17 50**±1.5	**11.05S**±.045	**165.92E**±.048	**66**±14	**4.7b**			**148**	**6-170**
EIDC	VIII	18 23 17 42.4	11.0S	166.0E	0	4.7b,4.4s				**¶97viii2727**
BJI	VIII	18 23 17 45.7	10.94S	165.89E	29	5.0b				
MOS	VIII	18 23 17 46.4	11.0S	165.9E	33	5.1b				
NEIC	VIII	18 23 17 46.5	10.88S	165.86E	33	4.9b,4.6s				
HRVD	VIII	18 23 17 50.7±.5	11.17S±.06	165.79E±.06	38±5.3					
NEIC	Mw5.3(HRV).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c33; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.67±.34; $M_{\theta\theta}$1.63±.53; $M_{\phi\phi}$4.05±.71; $M_{r\theta}$1.24±1.02; $M_{r\phi}$−7.42±1.28; $M_{\theta\phi}$−0.77±.45. Principal Axes: T 8.30,Plg28°,Azm78°; N 1.43,Plg2°,Azm169°; P −9.73,Plg62°,Azm262°. Best double couple: $M_0$9.0×10^{16}Nm, NP1: ϕ_S163°,δ17°,λ−96°. NP2:ϕ_S349°,δ73°,λ−88°.									
EIDC	**VIII**	**19 04 18 02.7**	**11.6S**	**166.0E**	**0**	**3.8b**,3.4s				**32-147**
										¶97viii2761
ISC	**VIII**	**19 06 24 11**±1.4	**11.1S**±.15	**165.9E**±.18	**33**	**4.0b**			**10**	**11-147**
EIDC	VIII	19 06 24 06.7	11.0S	166.0E	0	4.0b				**¶97viii2769**
NEIC	VIII	19 06 24 10.5	11.12S	165.91E	33	4.0b				
NEIC	Poor solution.									
ISC	**VIII**	**20 03 44 08**±2.5	**11.1S**±.12	**166.0E**±.12	**66**±22	**4.1b**			**16**	**6-147**
NEIC	VIII	20 03 44 06.1	11.05S	166.00E	52	4.3b				**¶97viii2901**
EIDC	VIII	20 03 44 07.0	11.0S	166.0E	45	3.9b				
NEIC	Less reliable solution.									
ISC	**VIII**	**20 04 48 20**±1.3	**10.9S**±.14	**165.9E**±.16	**33**	**4.3b**			**13**	**6-147**
NEIC	VIII	20 04 48 22.5	10.79S	165.68E	51	4.4b				**¶97viii2907**
EIDC	VIII	20 04 48 23.8	10.6S	165.6E	51	4.0b				
NEIC	Poor solution.									
EIDC	**VIII**	**20 11 23 53.7**	**12.3S**	**165.2E**	**0**	3.7b				**29-85**
										¶97viii2950
ISC	**VIII**	**24 18 55 42**±5.1	**11.7S**±.28	**166.4E**±.25	**165**±48	**3.5b**			**7**	**10-148**
EIDC	VIII	24 18 55 37.9	11.7S	166.6E	114	3.4b				**¶97viii3577**
NEIC	VIII	24 18 55 40.6	11.68S	166.44E	150					
NEIC	Poor solution.									
EIDC	**VIII**	**28 11 13 19.3**	**12.8S**	**167.9E**	**0**	3.5b,3.2s				**33-84**
										¶97viii4122
ISC	**IX**	**11 21 27 38**±2.5	**11.3S**±.10	**165.1E**±.14	**40**±21	**4.4b**,3.5s			**19**	**5-149**
EIDC	IX	11 21 27 34.3	11.2S	165.1E	0	4.2b,3.5s				**¶97ix1737**
NEIC	IX	11 21 27 37.7	11.26S	165.08E	33	4.5b				
NEIC	Less reliable solution.									
ISC	**IX**	**14 08 36 59.1**±.66	**12.4S**±.10	**166.8E**±.11	**300**	**3.9b**			**47**	**21-152**
EIDC	IX	14 08 36 48.4	12.3S	167.0E	185	3.7b				**¶97ix2098**
NEIC	IX	14 08 36 59.0	12.29S	166.69E	300	3.9b				
NEIC	Less reliable solution.									
ISC	**IX**	**17 12 34 24**±3.0	**11.08S**±.047	**165.81E**±.051	**21**±21	**5.0b,4.8s**	**158**	**6-170**		
EIDC	IX	17 12 34 22.3	11.1S	165.8E	0	4.7b,4.6s				**¶97ix2508**
MOS	IX	17 12 34 25.3	11.0S	165.7E	32	5.5b				
BJI	IX	17 12 34 25.7	10.52S	165.95E	20	4.9b				
NEIC	IX	17 12 34 26.3	11.10S	165.80E	41	5.1b,4.9s				
HRVD	IX	17 12 34 28.4±1.3	10.88S±.11	165.97E±.13	40±5.5					
NEIC	Mw5.2(HRV).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c29; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.20±1.21; $M_{\theta\theta}$2.63±.60; $M_{\phi\phi}$1.56±1.02; $M_{r\theta}$−2.96±.58; $M_{r\phi}$−3.95±.65; $M_{\theta\phi}$0.57±1.28. Principal Axes: T 5.21,Plg27°,Azm138°; N 1.61,Plg6°,Azm45°; P −6.82,Plg62°,Azm302°. Best double couple: $M_0$6.0×10^{16}Nm, NP1: ϕ_S244°,δ19°,λ−70°. NP2:ϕ_S43°,δ73°,λ−97°.									
ISC	**IX**	**18 03 17 26**±1.7	**11.1S**±.18	**165.7E**±.26	**33**	**3.7b**			**4**	**11-84**
EIDC	IX	18 03 17 22.9	11.0S	165.7E	0	3.7b				**¶97ix2606**
ISC	Poorly determined									
EIDC	LO CONF Location									
ISC	**IX**	**20 15 39 06**±2.0	**10.96S**±.087	**166.3E**±.12	**113**±18	**4.2b**			**22**	**6-95**
NEIC	IX	20 15 39 05.2	10.93S	166.25E	100	4.4b				**¶97ix2955**
EIDC	IX	20 15 39 07.6	11.0S	166.4E	112	3.9b				
ISC	**IX**	**24 03 36 08**±2.3	**12.7S**±.54	**167.0E**±.56	**33**	**4.1b**			**6**	**30-85**
EIDC	IX	24 03 36 05.1	12.6S	167.1E	0	4.0b				**¶97ix3519**
ISC	**IX**	**24 14 25 52**±1.5	**11.2S**±.17	**165.2E**±.21	**33**	**3.5b**			**7**	**11-116**
EIDC	IX	24 14 25 53.3	9.9S	164.0E	0	3.6b				**¶97ix3591**
NEIC	IX	24 14 25 57.1	9.79S	163.89E	33	3.3b				
NEIC	Poor solution.									
ISC	**IX**	**25 19 54 05**±1.8	**12.55S**±.043	**166.40E**±.050	**45**±16	**5.4b,5.0s**	**227**	**5-153**		
EIDC	IX	25 19 53 59.3	12.6S	166.7E	0	5.1b,5.0s				**¶97ix3785**
NEIC	IX	25 19 54 03.1	12.50S	166.47E	33	5.3b,5.1s				
MOS	IX	25 19 54 03.4	12.5S	166.5E	33	5.6b,5.0s				
BJI	IX	25 19 54 03.8	12.05S	166.76E	29	5.8b,5.2s				
HRVD	IX	25 19 54 08.8±.2	12.48S±.02	166.14E±.02	55					
NEIC	Mw5.6(HRV).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c92; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}2.34±.04; $M_{\theta\theta}$0.00±.06; $M_{\phi\phi}$−2.34±.06; $M_{r\theta}$0.55±.05; $M_{r\phi}$0.89±.06; $M_{\theta\phi}$0.54±.05. Principal Axes: T 2.66,Plg72°,Azm320°; N −0.08, Plg15°,Azm172°; P −2.58,Plg9°,Azm80°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S152°, δ38°,λ65°. NP2:ϕ_S3°,δ56°,λ109°.									
EIDC	**IX**	**26 12 17 53.8**	**9.3S**	**165.1E**	**28**	**3.1b**				**¶97ix3987**
ISC	**IX**	**27 11 28 15**±3.0	**10.75S**±.047	**165.52E**±.051	**28**±21	**5.1b,5.1s**	**189**	**6-170**		
BJI	IX	27 11 28 13.9	10.40S	165.65E	16	5.2b,5.1s				**¶97ix4346**
NEIC	IX	27 11 28 14.3	10.75S	165.52E	23	5.2b,5.1s				
MOS	IX	27 11 28 16.5	10.7S	165.4E	33	5.5b,4.9s				
EIDC	IX	27 11 28 16.5	10.8S	165.7E	28	4.8b,4.9s				
HRVD	IX	27 11 28 21.9±.3	10.63S±.05	165.31E±.05	34±2.8					
NEIC	Mw5.3(HRV).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c51; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}9.57±.69; $M_{\theta\theta}$−2.76±.54; $M_{\phi\phi}$−6.81±.60; $M_{r\theta}$−0.81±.76; $M_{r\phi}$6.53±.93; $M_{\theta\phi}$−1.28±.80. Principal Axes: T 12.0,Plg70°,Azm256°; N −2.7, Plg7°,Azm6°; P −9.2,Plg18°,Azm99°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S200°, δ27°,λ106°. NP2:ϕ_S3°,δ64°,λ82°.									
ISC	**IX**	**27 15 44 23**±9.7	**9.6S**±.73	**166.9E**±.79	**33**	**4.0b**			**7**	**7-34**
EIDC	IX	27 15 44 14.3	9.3S	167.6E	0	3.9b				**¶97ix4393**
ISC	**X**	**07 00 44 37**±6.9	**11.6S**±.23	**166.4E**±.37	**50**±48	**4.2b**			**11**	**7-84**
NEIC	X	07 00 44 35.6	11.55S	166.39E	33	4.6b				**¶97x1147**
EIDC	X	07 00 44 39.2	11.6S	166.5E	52	3.9b				
ISC	**X**	**08 20 38 45**±1.6	**12.2S**±.39	**167.4E**±.33	**33**	**3.7b**			**4**	**33-97**
EIDC	X	08 20 38 42.2	12.0S	167.5E	0	3.7b				**¶97x1470**
ISC	Poorly determined									
ISC	**X**	**14 16 28 50**±1.6	**10.94S**±.041	**165.92E**±.042	**66**±14	**5.0b**			**241**	**6-172**
BJI	X	14 16 28 47.9	10.54S	166.03E	41	5.1b,5.3s				**¶97x2445**
NEIC	X	14 16 28 48.3	10.81S	165.89E	48	5.0b,5.4s				
EIDC	X	14 16 28 49.3	10.9S	166.1E	46	4.8b				
ISC	**X**	**15 16 12 21**±1.5	**11.8S**±.16	**166.2E**±.24	**33**	**3.6b**			**6**	**10-84**
EIDC	X	15 16 12 15.5	12.4S	166.9E	0	3.7b				**¶97x2673**

EIDC X 29 07 08 46.3 11.7S 166.3E 274 3.1b ¶97x4873
ISC XI 04 12 17 53±1.3 **11.8S**±.13 **166.6E**±.20 **33 4.0b 10 10-148**
EIDC XI 04 12 17 48.4 12.0S 166.9E 0 4.0b **¶97xi0631**
NEIC XI 04 12 17 53.6 11.86S 166.53E 33 4.4b
NEIC Poor solution.
ISC XI 05 19 37 01±2.2 **11.2S**±.50 **166.4E**±.50 **33 3.7b 7 21-148**
EIDC XI 05 19 37 20.2 11.3S 166.2E 193 3.2b **¶97xi0851**
EIDC XI 06 15 59 30.8 11.3S 166.7E 0 3.5b ¶97xi0999
ISC XI 06 19 55 25±2.7 **13.0S**±.63 **166.9E**±.64 **100 3.7b 6 30-148**
EIDC XI 06 19 55 31.5 12.9S 166.9E 148 3.5b **¶97xi1021**
ISC Poorly determined
ISC XI 15 15 31 09±2.1 **10.1S**±.28 **166.0E**±.41 **33 3.8b 6 22-83**
EIDC XI 15 15 31 05.1 10.1S 166.2E 0 3.8b **¶97xi2500**
ISC XI 24 08 44 46±1.8 **12.2S**±.32 **166.8E**±.34 **200 3.9b 11 21-123**
NEIC XI 24 08 44 46.2 12.25S 166.73E 200 3.9b **¶97xi4286**
EIDC XI 24 08 44 50.3 12.1S 166.6E 219 3.5b
NEIC Poor solution.
ISC XI 24 15 23 23±1.4 **11.5S**±.15 **165.4E**±.21 **44**±.3* **3.6b 6 11-84**
NEIC XI 24 15 23 23.2 11.46S 165.39E 44 3.4b **¶97xi4339**
EIDC XI 24 15 23 23.7 11.7S 165.7E 44 3.4b
NEIC Less reliable solution.
ISC XI 28 06 46 37±1.3 **12.4S**±.14 **165.9E**±.29 **33 3.8b**,3.3s **6 10-147**
EIDC XI 28 06 46 32.7 12.5S 166.1E 0 3.8b,3.3s **¶97xi5028**
NEIC XI 28 06 46 37.2 12.44S 165.86E 33
NEIC Poor solution.
ISC XII 02 05 10 37±1.7 **12.7S**±.26 **166.9E**±.31 **33 4.2b 11 23-148**
EIDC XII 02 05 10 31.5±2.07 12.9S 167.3E 0 4.2b **¶97xii0185**
NEIC XII 02 05 10 36.4 12.71S 166.94E 33 4.6b
EIDC Error ellipse is semi−major=95.0km semi−minor=29.2km azimuth=139
NEIC Poor solution.
ISC XII 06 11 49 24±3.2 **12.6S**±.16 **166.4E**±.24 **65**±27 **3.9b 8 7-148**
NEIC XII 06 11 49 27.1 12.79S 166.56E 100 **¶97xii1390**
EIDC XII 06 11 49 27.3±2.49 12.9S 166.8E 91±10.7 3.8b
NEIC Poor solution.
EIDC Error ellipse is semi−major=75.6km semi−minor=29.4km azimuth=129
ISC XII 10 14 50 13±2.4 **11.94S**±.088 **166.2E**±.12 **48**±20 **4.4b,3.9s 31 7-96**
BJI XII 10 14 50 11.1 11.80S 166.30E 33 4.8b **¶97xii2370**
NEIC XII 10 14 50 11.1 11.84S 166.30E 33 4.1b
EIDC XII 10 14 50 17.2±1.36 12.0S 166.2E 67±8.0 3.8b,3.9s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=31.6km semi−minor=20.1km azimuth=122
ISC XII 10 15 23 50±1.4 **11.8S**±.15 **165.8E**±.20 **33 3.9b**,3.4s **7 10-84**
NEIC XII 10 15 23 50.2 11.79S 165.82E 33 4.0b **¶97xii2375**
EIDC XII 10 15 23 52.4±2.27 11.6S 165.7E 32±8.3 3.7b,3.4s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=85.9km semi−minor=31.6km azimuth=133
ISC XII 11 08 25 11±1.7 **11.18S**±.067 **165.19E**±.068 **56**±16 **4.6b 59 5-169**
EIDC XII 11 08 25 04.1±.62 11.8S 165.7E 0 4.6b **¶97xii2521**
NEIC XII 11 08 25 07.8 11.20S 165.27E 33 4.7b
BJI XII 11 08 25 09.8 11.20S 165.30E 33 4.9b
EIDC Error ellipse is semi−major=24.9km semi−minor=14.9km azimuth=160
ISC XII 11 09 12 16±1.5 **11.2S**±.17 **165.2E**±.23 **33 3.6b 5 11-84**
EIDC XII 11 09 12 13.0±2.67 11.0S 165.1E 0 3.7b **¶97xii2528**
NEIC XII 11 09 12 15.7 11.22S 165.25E 33
EIDC Error ellipse is semi−major=131.4km semi−minor=32.2km azimuth=134
NEIC Poor solution.
ISC XII 11 12 34 15±2.6 **11.7S**±.62 **166.9E**±.66 **33 3.7b 4 31-84**
EIDC XII 11 12 34 12.1±2.52 11.6S 166.9E 0 3.7b **¶97xii2562**
ISC Poorly determined
EIDC Error ellipse is semi−major=125.2km semi−minor=28.7km azimuth=134
ISC XII 12 12 39 11±3.3 **11.0S**±.17 **165.9E**±.20 **82**±31 **3.6b 7 6-147**
EIDC XII 12 12 39 00.3±3.78 11.5S 166.6E 0 3.8b,3.1s **¶97xii2751**
EIDC Error ellipse is semi−major=238.4km semi−minor=27.7km azimuth=141
ISC XII 13 14 50 19±4.8 **12.3S**±.27 **166.7E**±.27 **220**±55 **3.9b 19 10-152**
EIDC XII 13 14 50 08.6 12.4S 167.0E 122±104.2 3.7b **¶97xii2958**
NEIC XII 13 14 50 16.8 12.25S 166.68E 200 4.1b
EIDC Origin time error = 12.65Error ellipse is semi−major=70.5km semi−minor=45.0km azimuth=131
NEIC Less reliable solution.
ISC XII 15 00 38 43±1.7 **12.8S**±.29 **166.8E**±.35 **200 4.0b 25 21-152**
EIDC XII 15 00 38 43.1±2.53 13.0S 166.9E 189±11.3 3.7b **¶97xii3214**
NEIC XII 15 00 38 43.3 12.83S 166.76E 200 4.4b
EIDC Error ellipse is semi−major=105.1km semi−minor=23.1km azimuth=139
NEIC Poor solution.
ISC XII 17 15 24 18±4.7 **11.9S**±.25 **166.4E**±.23 **206**±44 **3.6b 10 10-148**
EIDC XII 17 15 24 04.5 11.8S 166.7E 73±120.1 3.6b **¶97xii3623**
NEIC XII 17 15 24 17.8 11.92S 166.37E 200
EIDC Origin time error = 14.27Error ellipse is semi−major=49.0km semi−minor=35.4km azimuth=81
NEIC Poor solution.
ISC XII 18 10 46 19±2.4 **11.9S**±.10 **166.3E**±.14 **80**±20 **4.2b 18 7-148**
NEIC XII 18 10 46 13.8 11.72S 166.18E 33 4.5b **¶97xii3752**
EIDC XII 18 10 46 16.1±1.21 12.1S 166.5E 50±6.1 4.1b,3.0s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=50.7km semi−minor=16.3km azimuth=137
EIDC XII 19 18 30 58.5 12.7S 165.7E 642±127.9 **2.5b 20-147**
¶97xii4015
EIDC Origin time error = 15.21Error ellipse is semi−major=351.7km semi−minor=51.3km azimuth=133

(185) Vanuatu (New Hebrides) region.

EIDC VII 19 08 08 08.3 20.6S 173.6E 0 4.0b 31-37
¶97vii2845
EIDC VII 20 13 34 18.8 18.2S 166.2E 0 3.7b 4-146
¶97vii3098
ISC VII 23 13 56 13±7.4 **19.1S**±.14 **167.6E**±.23 **10**±53 **4.0b**,3.2s **10 2-144**
NEIC VII 23 13 56 15.9 19.17S 167.57E 33 4.2b **¶97vii3537**
EIDC VII 23 13 56 19.4 17.0S 166.5E 0 3.9b,3.3s
NEIC Less reliable solution.
ISC VII 31 15 25 13.2±.89 **15.4S**±.19 **172.1E**±.18 **33 4.1b 33 4-152**
EIDC VII 31 15 25 09.0 15.4S 172.3E 0 4.1b **¶97vii4750**
NEIC VII 31 15 25 13.5 15.37S 172.08E 33 4.4b
NEIC Less reliable solution.
EIDC VIII 03 14 59 02.8 20.4S 174.6E 0 3.9b 27-90
¶97viii0376
ISC VIII 04 00 42 46.4±.57 **14.13S**±.090 **170.6E**±.10 **500 3.8b 46 24-151**
NEIC VIII 04 00 42 45.5 14.15S 170.63E 500 4.4b **¶97viii0437**
EIDC VIII 04 00 42 48.9 14.2S 170.5E 525 3.4b
NEIC Poor solution.
EIDC VIII 05 15 59 02.9 21.5S 173.9E 0 3.9b 31-83
¶97viii0688
ISC VIII 10 06 15 36±1.0 **18.1S**±.13 **165.43E**±.099 **33 4.1b 9 3-30**
EIDC VIII 10 06 14 10.7 16.2S 175.3E 0 4.3b **¶97viii1358**
ISC VIII 12 10 42 13.2±.81 **19.2S**±.12 **167.8E**±.15 **33 4.1b**,3.5s **15 3-147**
EIDC VIII 12 10 42 05.5 20.1S 168.4E 0 4.3b,3.5s **¶97viii1725**
NEIC VIII 12 10 42 12.6 19.20S 167.84E 33 4.4b
NEIC Less reliable solution.
ISC VIII 12 11 52 42±1.1 **19.1S**±.13 **167.7E**±.18 **33 3.8b 10 3-147**
NEIC VIII 12 11 52 42.2 19.14S 167.63E 33 **¶97viii1743**
EIDC VIII 12 11 53 02.9 18.5S 167.0E 190 3.8b,3.8L
NEIC Less reliable solution.
ISC VIII 12 14 37 14±1.0 **19.2S**±.13 **167.8E**±.17 **33 3.8b**,3.4s **11 3-147**
EIDC VIII 12 14 37 09.4 19.4S 168.1E 0 4.0b,3.6s **¶97viii1767**
NEIC VIII 12 14 37 13.9 19.17S 167.81E 33
NEIC Less reliable solution.
EIDC VIII 13 22 27 41.8 21.3S 173.1E 0 4.0b 30-36
¶97viii1969
ISC VIII 15 20 52 33±3.2 **20.8S**±.72 **173.2E**±.57 **33 4.1b 6 30-91**
EIDC VIII 15 20 52 30.9 20.3S 173.0E 0 4.1b **¶97viii2270**
EIDC VIII 26 21 12 22.9 14.9S 171.2E 0 4.0b 8-36
¶97viii3906
ISC VIII 31 13 11 13±2.5 **15.3S**±.54 **163.2E**±.54 **33 3.6b 4 26-88**
EIDC VIII 31 13 11 09.1 15.2S 163.4E 0 3.8b **¶97viii4654**
ISC Poorly determined
ISC IX 21 20 25 31±2.3 **21.0S**±.53 **174.2E**±.35 **33 3.6b**,4.3s **8 7-148**
EIDC IX 21 20 25 30.8 20.8S 174.3E 22 3.6b,4.4s **¶97ix3156**
NEIC IX 21 20 25 31.8 20.89S 174.09E 33
NEIC Poor solution.
ISC IX 28 18 37 14±2.4 **19.1S**±.63 **171.4E**±.44 **33 4.0b 5 24-100**
EIDC IX 28 18 36 59.7 18.4S 172.7E 0 4.0b **¶97ix4731**
EIDC IX 28 18 55 08.9 16.2S 164.5E 0 3.7b ¶97ix4736
EIDC LO CONF Location
ISC IX 28 21 34 47±5.2 **19.3S**±.11 **167.9E**±.17 **5**±33 **4.3b**,3.5s **48 2-152**
EIDC IX 28 21 34 53.5 19.3S 167.8E 36 3.9b,3.5s **¶97ix4763**
NEIC IX 28 21 34 54.7 19.48S 167.40E 39 4.5b
NEIC Less reliable solution.
ISC IX 29 02 17 46±9.4 **21.9S**±.10 **174.4E**±.11 **2**±55 **4.4b 47 7-162**
EIDC IX 29 02 17 47.0 21.8S 174.4E 0 4.4b,4.2L **¶97ix4831**
BJI IX 29 02 17 50.5 21.90S 174.30E 33 4.9b
NEIC IX 29 02 17 50.5 21.96S 174.32E 33 4.3b
NEIC Less reliable solution.
EIDC X 12 04 24 26.0 13.2S 169.7E 655 2.7b **¶97x1987**
EIDC X 22 13 41 49.3 15.0S 170.4E 0 4.3b ¶97x3825
EIDC X 23 20 51 47.4 16.0S 164.2E 0 4.0b ¶97x4063
EIDC LO CONF Location
ISC XI 03 18 45 54±1.8 **19.4S**±.16 **167.7E**±.31 **33 3.9b 6 2-32**
EIDC XI 03 18 46 16.9 18.5S 164.4E 0 3.9b **¶97xi0502**
EIDC LO CONF
EIDC XI 06 14 31 12.3 19.3S 174.5E 0 3.6b ¶97xi0991
ISC XI 06 19 07 09±1.8 **14.8S**±.80 **172.3E**±.45 **33 3.7b 5 36-92**
EIDC XI 06 19 07 08.6 14.6S 172.2E 19 3.5b **¶97xi1014**
ISC XI 07 00 08 15±3.2 **21.9S**±.42 **173.0E**±.31 **33 4.0b 10 6-77**
EIDC XI 07 00 07 22.7 20.5S 179.1E 0 4.1b **¶97xi1052**
EIDC XI 11 18 22 19.3 14.0S 170.7E 0 3.6b ¶97xi1848
EIDC LO CONF Location
ISC XI 14 16 42 19±4.9 **14.6S**±.38 **171.9E**±.23 **216**±46 **3.9b 11 9-152**
EIDC XI 14 16 41 55.1 14.3S 172.2E 0 4.1b,3.4s **¶97xi2318**
NEIC XI 14 16 42 17.7 14.54S 171.92E 200 4.4b
NEIC Poor solution.
EIDC XI 22 08 23 41.7 17.1S 171.8E 18 3.7b ¶97xi3837
EIDC XI 24 02 29 38.6 13.4S 172.6E 0 3.8b ¶97xi4251
EIDC XI 25 21 08 46.3 21.1S 173.3E 0 3.5b ¶97xi4580
EIDC LO CONF Location
EIDC XI 26 08 38 55.1 19.1S 165.2E 0 4.0b ¶97xi4656
EIDC LO CONF Depth
EIDC XI 28 00 59 13.4 20.1S 173.3E 0 3.7b ¶97xi4980
ISC XII 04 07 02 02±2.9 **19.4S**±.66 **173.6E**±.53 **33 3.7b 5 26-89**
EIDC XII 04 07 01 58.3±3.34 19.3S 173.6E 0 3.8b **¶97xii0569**
EIDC Error ellipse is semi−major=131.3km semi−minor=35.1km azimuth=144
EIDC XII 10 05 01 20.2±7.79 **20.2S 172.5E 0 4.2b 30-71**
¶97xii2293
EIDC Error ellipse is semi−major=187.0km semi−minor=42.6km azimuth=120
ISC XII 16 00 23 16±2.9 **18.4S**±.65 **171.1E**±.56 **33 3.8b 6 30-150**
EIDC XII 16 00 23 11.0±2.12 18.7S 171.5E 0 3.9b **¶97xii3361**
EIDC Error ellipse is semi−major=99.0km semi−minor=31.2km azimuth=148
EIDC XII 18 09 40 12.2±1.82 **20.8S 173.5E 0 4.4b 30-42**
¶97xii3743
EIDC Error ellipse is semi−major=137.3km semi−minor=30.5km azimuth=160
EIDC XII 22 20 46 30.4±3.01 **19.6S 173.2E 0 3.8b 7-90**
¶97xii4484
EIDC Error ellipse is semi−major=95.2km semi−minor=29.5km azimuth=135
EIDC XII 23 15 07 00.5 17.1S 164.7E 0 3.6b 5-30
¶97xii4621
EIDC Origin time error = 115.17Error ellipse is semi−major=1906.7km semi−minor=110.5km azimuth=68LO CONF Location

(186) Vanuatu (New Hebrides).

ISC VII 02 05 33 31±1.4 **14.4S**±.13 **167.3E**±.18 **100 4.3b 12 8-148**
NEIC VII 02 05 33 30.9 14.45S 167.28E 100 4.5b **¶97vii0187**
EIDC VII 02 05 33 37.8 14.5S 167.1E 146 4.0b
NEIC Less reliable solution.
ISC VII 03 10 46 01±1.8 **18.0S**±.13 **168.5E**±.30 **92**±10 **4.0b 8 0-89**
EIDC VII 03 10 45 53.4 17.1S 168.0E 0 3.9b **¶97vii0396**
NEIC VII 03 10 46 01.6 18.10S 168.56E 100
NEIC Poor solution.
ISC VII 04 11 49 37±1.4 **13.6S**±.14 **166.4E**±.21 **33 4.0b 8 8-86**
EIDC VII 04 11 49 33.7 13.4S 166.3E 0 4.0b **¶97vii0553**
NEIC VII 04 11 49 37.0 13.62S 166.40E 33 4.2b
NEIC Poor solution.
ISC VII 05 18 54 35.3±.73 **15.97S**±.086 **166.8E**±.11 **51**±3.2* **4.2b**,3.4s **17 2-147**
NEIC VII 05 18 54 34.6 16.00S 166.90E 52 4.5b **¶97vii0769**
EIDC VII 05 18 54 38.3 15.7S 166.6E 58 3.7b,3.4s
NEIC Less reliable solution.
ISC VII 06 07 47 54±1.3 **18.0S**±.20 **168.9E**±.28 **239**±11 **3.8b 8 1-100**
EIDC VII 06 07 47 30.1 17.1S 168.8E 0 4.2b **¶97vii0854**
NEIC VII 06 07 47 47.4 17.04S 168.40E 150
NEIC Poor solution.
ISC VII 06 17 38 44±4.8 **15.9S**±.40 **168.0E**±.33 **187**±59 **3.7b 8 6-87**
EIDC VII 06 17 38 41.2 15.9S 168.3E 158 3.5b **¶97vii0912**
NEIC VII 06 17 38 44.5 15.99S 168.07E 200

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	Poor solution.							
ISC	**VII**	**06 22 20 04**±2.0	**13.18S**±.066	**166.43E**±.075	**44**±18	**4.5b,4.2s**	**71**	**5-152**
BJI	VII	06 22 20 02.5	13.17S	166.23E	21	4.9b		¶97vii0945
NEIC	VII	06 22 20 02.9	13.13S	166.45E	33	4.7b		
EIDC	VII	06 22 20 03.8	13.6S	166.8E	40	4.1b,4.0s		
ISC	**VII**	**07 01 51 08**±2.2	**13.53S**±.094	**166.29E**±.092	**96**±21	**4.4b**	**48**	**5-153**
EIDC	VII	07 01 50 55.7	13.7S	166.8E	0	4.4b,4.1s		¶97vii0971
BJI	VII	07 01 51 00.7	13.50S	166.50E	33	4.5b		
NEIC	VII	07 01 51 00.7	13.48S	166.46E	33	4.6b		
ISC	**VII**	**07 13 13 36**±1.3	**13.3S**±.15	**166.3E**±.27	**33**	**3.9b**	**9**	**9-152**
EIDC	VII	07 13 13 32.7	13.3S	166.4E	0	3.9b		¶97vii1047
NEIC	VII	07 13 13 35.8	13.36S	166.30E	33			
NEIC	Less reliable solution.							
ISC	**VII**	**07 22 57 41**±3.0	**14.45S**±.069	**167.69E**±.094	**74**±26	**4.5b**	**127**	**9-154**
NEIC	VII	07 22 57 35.5	14.44S	167.81E	33	4.7b,4.3s		¶97vii1102
BJI	VII	07 22 57 36.0	14.33S	167.56E	28	5.0b		
EIDC	VII	07 22 57 37.9	14.4S	167.9E	48	4.3b,4.0s		
ISC	**VII**	**08 09 13 05**±1.6	**15.53S**±.097	**167.6E**±.10	**129**±15	**4.4b**	**50**	**2-148**
BJI	VII	08 09 13 01.0	15.40S	167.70E	100	4.6b		¶97vii1166
NEIC	VII	08 09 13 01.0	15.38S	167.66E	100	4.6b		
EIDC	VII	08 09 13 03.4	15.4S	167.7E	109	4.1b		
ISC	**VII**	**09 13 21 11**±2.4	**13.5S**±.46	**166.3E**±.53	**33**	**3.5b**,3.3s	**6**	**29-147**
EIDC	VII	09 13 21 07.2	13.4S	166.4E	0	3.6b,3.3s		¶97vii1344
ISC	**VII**	**10 02 46 55**±2.5	**15.5S**±.19	**167.4E**±.16	**130**±22	**3.9b**	**28**	**2-148**
EIDC	VII	10 02 46 40.2	15.3S	167.7E	0	4.0b		¶97vii1435
NEIC	VII	10 02 46 52.7	15.35S	167.39E	100	4.5b		
NEIC	Less reliable solution.							
ISC	**VII**	**11 07 30 40**±1.3	**18.7S**±.20	**169.2E**±.20	**265**±10	**3.8b**	**13**	**1-148**
NEIC	VII	11 07 30 36.1	18.12S	168.95E	220	4.2b		¶97vii1643
EIDC	VII	11 07 30 45.3	18.5S	169.0E	301	3.5b		
NEIC	Poor solution.							
ISC	**VII**	**11 08 50 10.3**±.29	**13.23S**±.066	**168.36E**±.064	**19**	**4.8b,4.4s**	**125**	**9-153**
NEIC	VII	11 08 50 09.8	13.12S	168.32E	19	4.9b,4.4s		¶97vii1651
BJI	VII	11 08 50 09.9	13.33S	168.51E	26	5.1b		
EIDC	VII	11 08 50 10.5	13.2S	168.5E	18	4.3b,4.1s		
ISC	**VII**	**11 23 00 54**±5.1	**13.6S**±.27	**165.9E**±.27	**65**±57	**4.4b**	**25**	**5-147**
BJI	VII	11 23 00 43.0	14.29S	167.17E	37			¶97vii1738
NEIC	VII	11 23 00 47.9	13.64S	166.38E	33	4.5b		
EIDC	VII	11 23 00 50.8	13.5S	166.3E	44	4.1b,3.8s		
NEIC	Less reliable solution.							
ISC	**VII**	**12 17 22 06**±1.4	**19.3S**±.11	**168.8E**±.17	**150**±10	**4.2b**	**36**	**2-151**
NEIC	VII	12 17 22 02.4	19.01S	168.95E	131	4.0b		¶97vii1844
EIDC	VII	12 17 22 15.5	19.4S	168.8E	229	3.8b		
NEIC	Less reliable solution.							
EIDC	**VII**	**13 11 45 46.1**	**16.7S**	**166.9E**	**401**	**3.0b**		**5-147**
								¶97vii1965
ISC	**VII**	**15 19 45 17**±1.1	**17.1S**±.14	**168.6E**±.14	**239**±9.8	**4.2b**	**36**	**1-149**
EIDC	VII	15 19 45 16.2	17.1S	168.5E	218	3.6b		¶97vii2343
NEIC	VII	15 19 45 18.6	17.27S	168.50E	250	4.5b		
NEIC	Less reliable solution.							
EIDC	**VII**	**16 15 00 39.0**	**20.0S**	**169.1E**	**0**	3.6b		**3-148**
								¶97vii2456
ISC	**VII**	**18 22 52 43.8**±.92	**16.03S**±.083	**168.42E**±.055	**293**±9.6	**4.5b**	**123**	**2-169**
BJI	VII	18 22 52 41.2	16.61S	168.70E	297	4.9b		¶97vii2797
NEIC	VII	18 22 52 43.5	16.01S	168.41E	291	4.7b		
EIDC	VII	18 22 52 44.1	16.0S	168.5E	287	4.0b		
ISC	**VII**	**19 14 40 41**±5.6	**17.5S**±.33	**167.8E**±.45	**29**±51	**3.7b**	**5**	**0-89**
EIDC	VII	19 14 40 38.3	17.4S	167.8E	0	3.8b		¶97vii2891
ISC	Poorly determined							
ISC	**VII**	**21 12 30 29.8**±.43	**17.51S**±.063	**167.75E**±.077	**33**	**4.3b,4.6s**	**114**	**0-157**
BJI	VII	21 12 30 26.7	17.54S	167.51E	9	4.8b		¶97vii3245
NEIC	VII	21 12 30 29.9	17.41S	167.62E	33	4.5b,4.7s		
EIDC	VII	21 12 30 31.1	17.4S	167.7E	31	4.0b,4.3s		
HRVD	VII	21 12 30 31.7±1.1	17.61S±.16	167.65E±.10	15			
NEIC	Mw5.3(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.88±.46; $M_{\theta\theta}$−0.03±.67; $M_{\phi\phi}$−3.85±.65; $M_{r\theta}$2.97±1.62; $M_{r\phi}$−8.10±1.66; $M_{\theta\phi}$0.43±.55. Principal Axes: T 9.55,Plg57°,Azm66°; N −0.17,Plg5°,Azm163°; P −9.38,Plg33°,Azm255°. Best double couple: $M_0$9.5×10^{16}Nm, NP1: ϕ_S3°,δ13°,λ111°. NP2:ϕ_S162°,δ78°,λ85°.							
ISC	**VII**	**23 00 26 04**±1.7	**20.76S**±.070	**169.3E**±.11	**37**±13	**4.7b,4.5s**	**127**	**3-160**
EIDC	VII	23 00 25 59.9	20.6S	169.4E	0	4.5b		¶97vii3458
BJI	VII	23 00 26 02.7	20.38S	169.14E	17	5.1b		
NEIC	VII	23 00 26 02.7	20.62S	169.34E	33	4.8b,4.5s		
NEIC	Less reliable solution.							
ISC	**VII**	**23 07 08 34**±1.2	**14.4S**±.11	**167.2E**±.16	**33**	**3.9b**	**11**	**3-148**
EIDC	VII	23 07 08 32.8	14.5S	167.5E	22	3.9b		¶97vii3493
NEIC	VII	23 07 08 33.0	14.45S	167.32E	33			
NEIC	Less reliable solution.							
ISC	**VII**	**23 14 06 50**±2.3	**15.2S**±.15	**167.4E**±.19	**106**±26	**4.1b**	**42**	**3-148**
EIDC	VII	23 14 06 49.2	15.3S	167.6E	93	3.9b		¶97vii3539
NEIC	VII	23 14 06 49.3	15.22S	167.45E	100	4.3b		
NEIC	Less reliable solution.							
EIDC	**VII**	**23 20 37 35.6**	**20.5S**	**170.1E**	**0**	**3.8b**		**28-57**
								¶97vii3575
ISC	**VII**	**25 11 55 09**±3.3	**18.58S**±.075	**168.3E**±.10	**22**±23	**4.5b,4.5s**	**71**	**1-158**
EIDC	VII	25 11 55 06.9	18.3S	168.2E	0	4.2b		¶97vii3823
BJI	VII	25 11 55 09.4	18.49S	168.25E	21	4.9b		
NEIC	VII	25 11 55 10.5	18.53S	168.18E	33	4.7b,4.6s		
NEIC	Less reliable solution.							
ISC	**VII**	**26 08 29 45**±4.5	**17.7S**±.34	**167.0E**±.31	**35**±57	**3.9b**,3.2s	**9**	**1-89**
NEIC	VII	26 08 29 44.2	17.68S	167.09E	33	4.0b		¶97vii3940
EIDC	VII	26 08 29 50.3	17.3S	166.9E	66	3.7b,3.2s		
NEIC	Less reliable solution.							
ISC	**VII**	**27 06 38 46**±1.1	**13.7S**±.11	**166.3E**±.21	**33**	**4.1b**	**12**	**8-147**
EIDC	VII	27 06 38 42.0	13.7S	166.4E	0	4.1b		¶97vii4073
NEIC	VII	27 06 38 45.9	13.73S	166.24E	33			
NEIC	Less reliable solution.							
EIDC	**VII**	**27 14 09 17.4**	**13.7S**	**166.4E**	**0**	**3.5b**		**31-86**
								¶97vii4120
EIDC	**VII**	**28 06 43 53.5**	**19.5S**	**169.5E**	**0**	**4.6b**		**20-145**
								¶97vii4218
ISC	**VII**	**28 14 05 15.3**±.96	**14.3S**±.10	**167.0E**±.13	**33**	**3.8b**	**30**	**4-148**
EIDC	VII	28 14 05 10.7	14.6S	167.3E	0	3.9b		¶97vii4286
NEIC	VII	28 14 05 14.4	14.28S	167.09E	33	4.4b		
NEIC	Less reliable solution.							
ISC	**VII**	**29 08 32 22.3**±.77	**17.8S**±.11	**167.9E**±.11	**33**	**3.8b**,4.0s	**32**	**0-150**
EIDC	VII	29 08 32 18.6	17.5S	167.9E	0	3.8b,4.0s		¶97vii4407
NEIC	VII	29 08 32 22.1	17.80S	167.96E	33	4.2b		
NEIC	Poor solution.							
ISC	**VII**	**29 09 04 59**±1.0	**17.9S**±.18	**168.0E**±.25	**45**±17	**3.9b**,3.7s	**11**	**0-148**
EIDC	VII	29 09 04 56.3	17.2S	167.5E	0	3.9b,3.7s		¶97vii4411
NEIC	VII	29 09 04 57.5	17.78S	168.03E	33	4.3b		
NEIC	Poor solution.							
ISC	**VIII**	**01 20 54 35**±3.3	**20.5S**±.19	**169.4E**±.35	**83**±17	**3.9b**	**12**	**3-148**
NEIC	VIII	01 20 54 38.5	20.35S	169.11E	106	4.3b		¶97viii0112
EIDC	VIII	01 20 54 39.1	20.4S	169.3E	106	3.6b		
NEIC	Poor solution.							
ISC	**VIII**	**02 16 46 56.2**±.62	**18.2S**±.10	**167.45E**±.090	**33**	**4.5b**,3.4s	**47**	**1-152**
NEIC	VIII	02 16 46 55.9	18.19S	167.46E	33	4.4b		¶97viii0236
EIDC	VIII	02 16 47 01.2	17.9S	167.2E	59	4.1b,3.7L		
NEIC	Less reliable solution.							
EIDC	**VIII**	**08 01 32 06.3**	**14.7S**	**167.9E**	**0**	**4.2b**		**3-149**
								¶97viii1036
ISC	**VIII**	**08 17 21 45**±1.2	**18.8S**±.11	**167.8E**±.24	**233**±11	**4.2b**	**16**	**1-147**
NEIC	VIII	08 17 21 44.8	18.82S	167.89E	239	4.3b		¶97viii1139
EIDC	VIII	08 17 22 22.2	19.8S	167.0E	629	3.2b		
NEIC	Poor solution.							
ISC	**VIII**	**08 18 02 25**±1.6	**16.8S**±.15	**167.6E**±.16	**33**	**4.2b**,3.8s	**16**	**1-148**
EIDC	VIII	08 18 02 20.2	16.5S	167.7E	0	4.3b,3.9s		¶97viii1144
NEIC	VIII	08 18 02 25.4	16.81S	167.57E	33	4.4b		
NEIC	Less reliable solution.							
EIDC	**VIII**	**11 17 20 39.1**	**16.7S**	**166.8E**	**261**	**3.0b**		**2-147**
								¶97viii1594
ISC	**VIII**	**12 11 14 43**±5.2	**13.4S**±.36	**167.2E**±.30	**245**±64	**3.5b**	**10**	**9-170**
NEIC	VIII	12 11 14 39.9	13.23S	167.02E	200			¶97viii1730
EIDC	VIII	12 11 14 43.9	13.4S	167.1E	232	3.3b		
NEIC	Less reliable solution.							
ISC	**VIII**	**16 00 29 16**±1.5	**17.5S**±.20	**167.6E**±.17	**150**	**4.2b**	**29**	**1-151**
EIDC	VIII	16 00 28 04.8	14.7S	173.9E	0	4.3b		¶97viii2293
ISC	**VIII**	**17 19 10 56**±1.6	**13.7S**±.17	**167.4E**±.27	**33**	**3.7b**,3.4s	**6**	**8-148**
EIDC	VIII	17 19 10 54.9	13.0S	166.8E	0	3.7b,3.4s		¶97viii2573
EIDC	**VIII**	**17 19 23 53.5**	**13.7S**	**167.1E**	**0**	**3.4b**		**32-148**
								¶97viii2574
ISC	**VIII**	**17 20 11 11.2**±.18	**13.56S**±.037	**167.42E**±.038	**26**	**5.2b,6.0s**	**348**	**4-170**
EIDC	VIII	17 20 11 07.9	13.6S	167.6E	0	4.8b,5.9s		¶97viii2581
NEIC	VIII	17 20 11 10.7	13.59S	167.39E	26	5.4b,6.1s		
BJI	VIII	17 20 11 12.1	13.46S	167.53E	31	5.4b,6.0s		
MOS	VIII	17 20 11 12.6	13.4S	167.4E	33	5.8b,5.9s		
HRVD	VIII	17 20 11 13.8±.1	13.56S±.01	167.61E±.01	15			
NEIC	Ms6.3(BRK), Mw6.0(GS).							
NEIC	Mw 6.0 (HRV).							
NEIC	Moment tensor solution: s22, scale 10^{18}Nm; M_{rr}0.05; $M_{\theta\theta}$0.11; $M_{\phi\phi}$−0.16; $M_{r\theta}$−0.04; $M_{r\phi}$0.22; $M_{\theta\phi}$1.02. Depth 22km; Principal axes: T 1.01,Plg7°,Azm318°; N 0.07,Plg78°, Azm194°; P −1.08,Plg10°,Azm49°. Best double couple: $M_0$1.0×10^{18}Nm; NP1:ϕ_S94°,δ78°, λ−2°. NP2:ϕ_S184°,δ88°,λ−168°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s50,c112; Mantle waves: s45,c69; Half duration: 2s5. Moment tensor: Scale 10^{18}Nm; M_{rr}0.07±.01; $M_{\theta\theta}$0.08±.01; $M_{\phi\phi}$−0.15±.01; $M_{r\theta}$−0.24±.03; $M_{r\phi}$0.45±.03; $M_{\theta\phi}$1.04±.01. Principal Axes: T 1.03,Plg8°,Azm316°; N 0.24,Plg68°,Azm206°; P −1.27,Plg20°,Azm49°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S91°,δ70°,λ−9°. NP2:ϕ_S184°,δ81°,λ−160°.							
ISC	**VIII**	**17 23 15 44**±4.0	**13.60S**±.091	**167.6E**±.13	**23**±29	**4.3b,4.2s**	**39**	**4-148**
EIDC	VIII	17 23 15 42.4	13.6S	167.7E	0	4.3b,4.3s		¶97viii2597
NEIC	VIII	17 23 15 45.8	13.50S	167.60E	33	4.5b		
NEIC	Less reliable solution.							
ISC	**VIII**	**18 03 18 23.8**±.79	**13.52S**±.089	**167.3E**±.11	**33**	**4.2b,4.1s**	**22**	**4-125**
NEIC	VIII	18 03 18 23.3	13.61S	167.35E	33	4.4b		¶97viii2612
EIDC	VIII	18 03 18 29.7	13.4S	167.2E	70	3.8b,4.1s		
NEIC	Less reliable solution.							
ISC	**VIII**	**18 06 44 09**±1.6	**13.9S**±.17	**167.4E**±.27	**33**	**3.6b**,3.3s	**6**	**8-148**
EIDC	VIII	18 06 44 07.3	13.2S	166.9E	0	3.7b,3.3s		¶97viii2632
ISC	**VIII**	**18 09 57 20**±1.1	**13.62S**±.089	**167.6E**±.16	**33**	**4.0b**	**16**	**4-148**
EIDC	VIII	18 09 57 16.7	13.5S	167.6E	0	3.9b		¶97viii2657
NEIC	VIII	18 09 57 19.3	13.65S	167.69E	33	4.2b		
NEIC	Less reliable solution.							
ISC	**VIII**	**18 10 00 23.8**±.74	**13.58S**±.074	**167.3E**±.12	**33**	**4.2b,4.3s**	**22**	**4-148**
EIDC	VIII	18 10 00 21.4	13.3S	167.1E	0	4.0b,4.4s		¶97viii2658
NEIC	VIII	18 10 00 22.7	13.65S	167.33E	33	4.6b		
NEIC	Less reliable solution.							
ISC	**VIII**	**18 10 56 38.8**±.28	**13.65S**±.055	**167.34E**±.057	**33**	**4.7b,5.0s**	**183**	**4-170**
EIDC	VIII	18 10 56 35.2	13.5S	167.3E	0	4.5b,4.9s		¶97viii2662
NEIC	VIII	18 10 56 38.5	13.64S	167.31E	33	5.0b,5.1s		
HRVD	VIII	18 10 56 39.7±.9	13.55S±.08	167.52E±.08	25±5.5			
BJI	VIII	18 10 56 42.4	13.50S	167.33E	50	5.0b,5.3s		
MOS	VIII	18 10 56 48.7	12.3S	165.7E	33	5.5b,5.0s		
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c44; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.65±.53; $M_{\theta\theta}$7.38±.74; $M_{\phi\phi}$−4.73±.99; $M_{r\theta}$−9.95±2.30; $M_{r\phi}$−3.30±1.75; $M_{\theta\phi}$7.14±.59. Principal Axes: T 16.4,Plg29°,Azm157°; N −7.2,Plg35°,Azm269°; P −9.3,Plg42°,Azm37°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S195°,δ36°,λ−167°. NP2:ϕ_S94°,δ82°,λ−55°.							
ISC	**VIII**	**18 11 37 36**±1.1	**13.9S**±.15	**167.2E**±.21	**33**	**3.5b**	**7**	**8-148**
EIDC	VIII	18 11 37 34.2	13.0S	166.5E	0	3.7b		¶97viii2673
NEIC	VIII	18 11 37 35.7	13.94S	167.17E	33			
NEIC	Poor solution.							
ISC	**VIII**	**18 19 50 24**±2.4	**13.0S**±.46	**166.9E**±.53	**33**	**3.7b**	**6**	**30-96**
EIDC	VIII	18 19 50 20.3	13.0S	167.0E	0	3.7b		¶97viii2709
ISC	**VIII**	**19 11 45 01**±6.0	**13.71S**±.091	**167.32E**±.097	**9**±36	**4.6b,4.1s**	**38**	**4-153**
EIDC	VIII	19 11 45 01.9	13.5S	167.1E	0	4.4b,4.2s		¶97viii2803
BJI	VIII	19 11 45 03.9	13.80S	167.30E	33	4.9b		
NEIC	VIII	19 11 45 03.9	13.78S	167.35E	33	4.6b		
ISC	**VIII**	**19 20 28 49.0**±.95	**13.5S**±.10	**167.7E**±.14	**33**	**3.9b**,4.1s	**13**	**9-149**
EIDC	VIII	19 20 28 47.4	13.4S	167.5E	0	3.9b,4.0s		¶97viii2868
NEIC	VIII	19 20 28 48.8	13.59S	167.79E	33	4.0b		
NEIC	Poor solution.							
EIDC	**VIII**	**19 21 50 01.8**	**18.0S**	**167.7E**	**0**	**3.9b**		**4-147**
								¶97viii2874
ISC	**VIII**	**20 05 03 13**±1.6	**14.1S**±.17	**166.9E**±.25	**33**	**3.6b**	**9**	**8-148**
EIDC	VIII	20 05 03 10.6	13.6S	166.6E	0	3.7b		¶97viii2909
EIDC	**VIII**	**20 11 52 39.2**	**16.5S**	**166.7E**	**533**	3.0b		**6-147**
								¶97viii2954
ISC	**VIII**	**21 21 41 33**±1.4	**13.3S**±.24	**166.2E**±.25	**23**	**3.9b**,3.4s	**9**	**21-147**
NEIC	VIII	21 21 41 34.0	13.38S	166.13E	33	4.2b		¶97viii3144
EIDC	VIII	21 21 41 34.4	13.3S	166.2E	23	3.7b,3.4s		
NEIC	Poor solution.							
ISC	**VIII**	**22 20 49 22**±2.3	**14.6S**±.20	**166.8E**±.26	**33**	**4.0b**,3.2s	**35**	**3-148**
EIDC	VIII	22 20 49 12.8	14.8S	167.7E	0	4.1b,3.3s		¶97viii3282
NEIC	VIII	22 20 49 18.5	14.31S	167.14E	33	4.4b		
NEIC	Less reliable solution.							

ISC	**VIII 23 10 47 23.1**±.99	**13.68S**±.091	**167.6E**±.14	**33**	**4.1b**	**20 4-148**	
EIDC	VIII 23 10 47 19.4	13.7S	167.7E	0	4.0b,3.8s	**¶97viii3393**	
NEIC	VIII 23 10 47 23.3	13.72S	167.50E	33	4.4b		
NEIC	Less reliable solution.						
ISC	**VIII 24 20 48 47**±4.1	**14.9S**±.34	**167.0E**±.36	**33**	**3.9b**	**7 3-148**	
EIDC	VIII 24 20 48 37.7	14.3S	167.7E	0	4.0b	**¶97viii3589**	
NEIC	VIII 24 20 48 45.9	14.86S	167.13E	33			
NEIC	Less reliable solution.						
ISC	**VIII 26 08 22 02.1**±.53	**15.35S**±.062	**168.18E**±.098	**33**	**4.6b**	**40 2-96**	
EIDC	VIII 26 08 21 58.2	15.2S	168.3E	0	4.4b	**¶97viii3814**	
BJI	VIII 26 08 22 01.5	15.40S	168.20E	33	5.1b		
NEIC	VIII 26 08 22 01.5	15.36S	168.23E	33	4.8b		
ISC	**VIII 26 18 37 13**±3.0	**14.3S**±.25	**167.1E**±.14	**190**±29	**4.1b**	**24 4-148**	
NEIC	VIII 26 18 37 13.8	14.34S	167.13E	200	4.1b	**¶97viii3887**	
EIDC	VIII 26 18 37 17.5	14.1S	167.1E	218	3.9b		
ISC	**VIII 26 21 45 52**±5.4	**13.0S**±.26	**166.7E**±.17	**87**±48	**4.1b**	**12 9-85**	
NEIC	VIII 26 21 45 53.1	13.11S	166.68E	100	4.2b	**¶97viii3908**	
EIDC	VIII 26 21 46 08.7	13.0S	166.3E	227	3.6b,3.4s		
NEIC	Less reliable solution.						
ISC	**VIII 26 22 38 23.5**±.89	**13.0S**±.12	**166.4E**±.14	**33**	**4.3b**,3.5s	**18 9-152**	
EIDC	VIII 26 22 38 19.8	13.0S	166.4E	0	4.2b,3.5s	**¶97viii3914**	
NEIC	VIII 26 22 38 23.1	13.01S	166.43E	33	4.4b		
NEIC	Less reliable solution.						
ISC	**VIII 28 21 42 06**±1.9	**17.32S**±.050	**167.86E**±.059	**15**±14	**4.8b,5.2s**	**219 1-157**	
EIDC	VIII 28 21 42 06.3	17.4S	168.0E	14	4.5b,5.1s	**¶97viii4186**	
NEIC	VIII 28 21 42 07.6	17.40S	167.91E	33	4.9b,5.3s		
BJI	VIII 28 21 42 09.0	16.71S	167.12E	6	5.0b,5.2s		
MOS	VIII 28 21 42 09.4	17.4S	167.0E	33	5.9b,5.0s		
HRVD	VIII 28 21 42 12.3±.2	17.44S±.02	167.59E±.02	33±1.6			
NEIC	Mw5.5(HRV)						
NEIC	Felt at Port-Vila.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c87; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}1.96±.04; $M_{\theta\theta}$0.01±.06; $M_{\phi\phi}$−1.97±.06; $M_{r\theta}$0.78±.09; $M_{r\phi}$−0.59±.10; $M_{\theta\phi}$0.27±.04. Principal Axes: T 2.29,Plg71°,Azm20°; N −0.15, Plg16°,Azm166°; P −2.14,Plg10°,Azm259°. Best double couple: $M_0$2.2×10^{17}Nm, NP1:ϕ_S8°, δ38°,λ117°. NP2:ϕ_S155°,δ57°,λ71°.						
ISC	**VIII 29 07 55 18**±2.7	**13.3S**±.63	**167.1E**±.64	**33**	**3.7b**	**4 30-85**	
EIDC	VIII 29 07 55 15.0	13.2S	167.2E	0	3.7b	**¶97viii4248**	
ISC	Poorly determined						
ISC	**VIII 31 08 05 03**±1.2	**13.5S**±.12	**166.6E**±.25	**33**	**4.3b**	**24 9-153**	
EIDC	VIII 31 08 04 58.6	13.5S	166.8E	0	4.3b	**¶97viii4614**	
NEIC	VIII 31 08 05 01.4	13.51S	166.77E	33	4.6b		
NEIC	Less reliable solution.						
ISC	**IX 01 14 56 26**±1.5	**16.5S**±.12	**168.2E**±.22	**33**	**4.1b**	**10 6-88**	
EIDC	IX 01 14 56 15.5	18.5S	169.6E	0	4.1b	**¶97ix0122**	
NEIC	IX 01 14 56 26.1	16.56S	168.17E	33	3.9b		
NEIC	Poor solution.						
EIDC	**IX 02 01 20 35.5**	**13.2S**	**168.2E**	**0**	**3.8b**	**¶97ix0199**	
ISC	**IX 02 17 50 31**±2.2	**13.60S**±.073	**166.2E**±.12	**45**±18	**4.5b**	**51 5-153**	
BJI	IX 02 17 50 28.9	13.60S	166.30E	33	4.6b	**¶97ix0308**	
NEIC	IX 02 17 50 28.9	13.58S	166.27E	33	4.7b		
EIDC	IX 02 17 50 32.8	13.6S	166.3E	49	4.2b		
NEIC	Less reliable solution.						
ISC	**IX 05 10 14 01**±2.4	**14.1S**±.18	**167.4E**±.16	**198**±22	**3.8b**	**35 4-148**	
NEIC	IX 05 10 14 03.3	14.32S	167.23E	200	4.0b	**¶97ix0732**	
EIDC	IX 05 10 14 10.8	13.9S	166.9E	262	3.5b		
NEIC	Less reliable solution.						
ISC	**IX 07 17 52 02**±3.2	**13.0S**±.16	**166.9E**±.17	**222**±29	**4.2b**	**28 9-152**	
EIDC	IX 07 17 51 58.2	13.1S	167.1E	174	3.8b	**¶97ix1113**	
NEIC	IX 07 17 51 59.0	12.99S	167.06E	200	4.6b		
NEIC	Less reliable solution.						
ISC	**IX 09 01 53 19.3**±.92	**15.60S**±.086	**168.2E**±.14	**33**	**4.6b**	**41 2-150**	
EIDC	IX 09 01 53 16.2	15.1S	168.0E	0	4.6b	**¶97ix1310**	
NEIC	IX 09 01 53 19.6	15.63S	168.19E	33	4.5b		
ISC	**IX 09 02 17 32**±1.6	**15.65S**±.076	**168.18E**±.077	**36**±14	**4.8b**,4.8s	**80 2-150**	
EIDC	IX 09 02 17 26.7	15.5S	168.3E	0	4.6b	**¶97ix1312**	
BJI	IX 09 02 17 31.2	15.60S	168.20E	33	5.0b		
NEIC	IX 09 02 17 31.2	15.61S	168.16E	33	4.8b		
ISC	**IX 14 22 46 58**±1.5	**18.6S**±.14	**168.0E**±.25	**10**	**4.4b**,3.6s	**22 1-150**	
NEIC	IX 14 22 46 59.0	18.54S	167.92E	10	4.5b	**¶97ix2175**	
EIDC	IX 14 22 47 11.2	18.0S	166.1E	0	4.0b,3.5s		
NEIC	Less reliable solution.						
ISC	**IX 16 00 34 59**±3.9	**16.9S**±.32	**167.4E**±.25	**55**±47	**4.6b**,3.5s	**29 1-149**	
EIDC	IX 16 00 34 52.6	16.7S	167.6E	0	4.4b,3.5s	**¶97ix2301**	
BJI	IX 16 00 34 56.8	16.80S	167.40E	33	4.7b		
NEIC	IX 16 00 34 56.8	16.81S	167.39E	33	4.8b		
NEIC	Less reliable solution.						
ISC	**IX 16 09 07 27**±3.7	**13.4S**±.24	**166.1E**±.16	**87**±33	**4.0b**	**10 5-119**	
EIDC	IX 16 09 07 17.5	13.3S	166.4E	0	4.2b,3.7s	**¶97ix2360**	
NEIC	IX 16 09 07 21.0	13.52S	166.31E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**IX 16 13 30 12**±1.7	**13.5S**±.11	**166.36E**±.094	**66**±16	**4.0b**	**18 5-129**	
EIDC	IX 16 13 30 04.8	13.3S	166.4E	0	4.1b	**¶97ix2392**	
NEIC	IX 16 13 30 08.0	13.47S	166.39E	33	4.7b		
NEIC	Less reliable solution.						
ISC	**IX 18 23 03 30**±1.4	**13.19S**±.045	**167.10E**±.059	**223**±14	**4.8b**	**227 8-172**	
NEIC	IX 18 23 03 28.3	13.09S	167.09E	204	4.9b	**¶97ix2723**	
EIDC	IX 18 23 03 28.8	13.1S	167.1E	188	4.5b		
BJI	IX 18 23 03 29.3	12.83S	166.82E	192	5.1b		
HRVD	IX 18 23 03 33.7±1.0	13.00S±.10	166.95E±.08	212±3.8			
MOS	IX 18 23 03 37.0	13.1S	166.5E	263	5.2b		
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.95±.48; $M_{\theta\theta}$−1.36±.96; $M_{\phi\phi}$−4.59±.98; $M_{r\theta}$−3.47±.74; $M_{r\phi}$−2.54±.81; $M_{\theta\phi}$2.51±.77. Principal Axes: T 8.19,Plg62°,Azm147°; N −2.20,Plg27°,Azm336°; P −5.99,Plg4°,Azm244°. Best double couple: $M_0$7.1×10^{16}Nm, NP1: ϕ_S308°,δ48°,λ52°. NP2:ϕ_S178°,δ54°,λ124°.						
ISC	**IX 20 07 28 24**±2.3	**13.1S**±.53	**165.9E**±.50	**33**	**3.6b**	**5 20-85**	
EIDC	IX 20 07 28 19.9	13.1S	166.0E	0	3.6b	**¶97ix2915**	
ISC	**IX 21 00 39 03**±3.0	**19.4S**±.16	**168.3E**±.49	**33**	**3.8b**	**7 2-32**	
EIDC	IX 21 00 39 00.8	19.7S	168.3E	0	3.8b	**¶97ix3021**	
EIDC	LO CONF Location						
ISC	**IX 21 09 56 25**±3.5	**15.2S**±.30	**167.0E**±.32	**33**	**4.1b**	**6 3-39**	
						¶97ix3078	
ISC	**IX 21 20 00 33**±1.7	**16.4S**±.17	**168.6E**±.30	**82**	**3.4b**	**11 6-142**	
EIDC	IX 21 20 00 33.0	16.9S	169.0E	82	3.3b	**¶97ix3151**	
ISC	**IX 21 20 10 36**±1.5	**18.89S**±.071	**168.6E**±.13	**37**±11	**4.6b**,4.9s	**134 1-158**	
EIDC	IX 21 20 10 31.9	18.8S	168.7E	0	4.4b	**¶97ix3152**	
BJI	IX 21 20 10 36.4	18.16S	168.23E	13	5.0b		
NEIC	IX 21 20 10 36.7	18.82S	168.42E	33	4.5b,4.9s		
ISC	**IX 26 06 40 37.1**±.99	**18.35S**±.059	**168.5E**±.11	**81**±8.8	**4.4b**	**56 1-151**	
BJI	IX 26 06 40 29.4	18.50S	167.85E	10	4.8b	**¶97ix3897**	
NEIC	IX 26 06 40 31.7	18.15S	168.66E	33	4.9b,4.6s		
EIDC	IX 26 06 40 36.5	18.3S	168.8E	68	4.2b		
NEIC	Less reliable solution.						
EIDC	**IX 26 09 30 33.1**	**14.2S**	**169.8E**	**0**	**3.7b**,3.8s	**¶97ix3936**	
EIDC	LO CONF Location						
ISC	**IX 26 20 59 29.2**±.99	**18.78S**±.093	**169.3E**±.11	**251**±8.4	**4.3b**	**74 2-152**	
NEIC	IX 26 20 59 29.2	18.83S	169.36E	250	4.3b	**¶97ix4141**	
EIDC	IX 26 20 59 32.5	18.6S	169.2E	269	4.1b		
NEIC	Less reliable solution.						
ISC	**IX 27 02 32 43**±1.5	**14.4S**±.17	**167.0E**±.24	**150**	**3.7b**	**6 8-97**	
EIDC	IX 27 02 31 48.5	11.9S	171.2E	0	3.8b	**¶97ix4226**	
EIDC	**IX 27 18 32 37.3**	**18.1S**	**169.3E**	**0**	**3.9b**	**¶97ix4432**	
ISC	**IX 28 08 39 32**±2.3	**18.4S**±.14	**168.3E**±.36	**33**	**3.9b,4.6s**	**29 1-151**	
EIDC	IX 28 08 39 27.8	17.7S	168.3E	0	3.8b	**¶97ix4596**	
NEIC	IX 28 08 39 34.8	18.45S	167.90E	33	4.8b,4.6s		
NEIC	Poor solution.						
EIDC	**IX 28 11 24 03.8**	**14.9S**	**168.0E**	**0**	**3.5b**	**¶97ix4628**	
EIDC	LO CONF Location						
ISC	**IX 28 11 59 27**±2.1	**20.0S**±.14	**168.1E**±.32	**33**	**4.2b**	**38 2-152**	
EIDC	IX 28 11 59 22.7	19.2S	168.1E	0	4.1b	**¶97ix4642**	
NEIC	IX 28 11 59 27.0	20.04S	168.06E	33	4.6b		
NEIC	Less reliable solution.						
ISC	**X 02 07 17 08**±6.7	**18.74S**±.082	**169.2E**±.19	**14**±37	**4.6b,4.5s**	**63 1-158**	
EIDC	X 02 07 17 09.0	19.1S	169.2E	0	4.4b,4.5s	**¶97x0230**	
BJI	X 02 07 17 13.1	18.90S	168.90E	33	4.8b,5.3s		
NEIC	X 02 07 17 13.1	18.87S	168.90E	33	4.5b		
NEIC	Less reliable solution.						
EIDC	**X 03 09 48 07.3**	**18.4S**	**169.2E**	**0**	**4.8b**	**¶97x0442**	
ISC	**X 05 13 12 53**±1.3	**15.39S**±.075	**167.46E**±.090	**126**±12	**4.5b**	**105 2-151**	
NEIC	X 05 13 12 50.0	15.29S	167.44E	100	4.6b	**¶97x0868**	
EIDC	X 05 13 12 50.4	15.3S	167.6E	95	4.2b		
BJI	X 05 13 12 56.4	14.43S	166.65E	100	4.8b		
NEIC	Less reliable solution.						
ISC	**X 07 00 49 25**±1.3	**14.9S**±.13	**167.2E**±.15	**33**	**4.0b**	**27 3-148**	
EIDC	X 07 00 49 17.0	15.8S	168.2E	0	4.0b	**¶97x1148**	
NEIC	X 07 00 49 20.9	15.73S	167.96E	33	4.1b		
NEIC	Poor solution.						
ISC	**X 08 15 28 37**±2.0	**14.5S**±.14	**167.2E**±.12	**172**±23	**4.5b**	**95 3-154**	
BJI	X 08 15 28 35.5	14.09S	167.52E	145	4.8b	**¶97x1434**	
NEIC	X 08 15 28 35.8	14.40S	167.15E	150	4.7b		
EIDC	X 08 15 28 36.7	14.6S	167.4E	154	4.2b		
ISC	**X 11 04 58 34**±3.0	**14.8S**±.22	**167.2E**±.20	**128**±27	**3.8b**	**29 3-150**	
EIDC	X 11 04 58 30.8	14.8S	167.5E	92	3.6b	**¶97x1850**	
NEIC	X 11 04 58 30.9	14.61S	167.21E	100	4.2b		
EIDC	LO CONF Depth						
NEIC	Less reliable solution.						
ISC	**X 11 17 54 33**±6.0	**16.2S**±.21	**169.9E**±.72	**33**	**4.4b**	**7 2-35**	
						¶97x1919	
ISC	**X 12 02 31 23**±2.0	**13.3S**±.35	**167.3E**±.35	**200**	**3.7b**	**17 21-153**	
EIDC	X 12 02 31 19.0	13.3S	167.6E	154	3.5b	**¶97x1975**	
NEIC	X 12 02 31 23.3	13.28S	167.28E	200	3.8b		
NEIC	Poor solution.						
ISC	**X 12 07 57 06.0**±.81	**13.5S**±.21	**167.5E**±.15	**200**	**3.6b**	**21 20-148**	
EIDC	X 12 07 57 04.8	13.4S	167.6E	173	3.4b	**¶97x2009**	
NEIC	X 12 07 57 05.8	13.59S	167.54E	200	3.9b		
NEIC	Poor solution.						
ISC	**X 13 07 37 00**±1.6	**18.4S**±.15	**167.5E**±.14	**37**±20	**4.0b**	**12 1-147**	
NEIC	X 13 07 36 59.9	18.42S	167.49E	33	3.9b	**¶97x2175**	
EIDC	X 13 07 37 04.2	18.8S	167.7E	53	3.9b		
NEIC	Less reliable solution.						
ISC	**X 13 07 51 44**±6.2	**18.3S**±.15	**167.3E**±.19	**11**±44	**4.3b**,3.4s	**14 1-147**	
EIDC	X 13 07 51 44.6	18.2S	167.4E	0	4.3b,3.4s	**¶97x2180**	
NEIC	X 13 07 51 46.5	18.37S	167.41E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**X 13 08 05 04.6**±.89	**18.4S**±.14	**167.4E**±.14	**33**	**3.8b**	**9 1-143**	
EIDC	X 13 08 05 00.4	18.8S	167.7E	0	3.7b	**¶97x2183**	
NEIC	X 13 08 05 04.6	18.38S	167.39E	33	3.8b		
NEIC	Less reliable solution.						
EIDC	**X 13 08 05 48.8**	**18.8S**	**167.8E**	**0**	**4.1b**	**¶97x2184**	
ISC	**X 13 14 15 46**±1.6	**18.18S**±.094	**168.6E**±.21	**33**	**3.9b**	**24 1-150**	
EIDC	X 13 14 15 41.8	18.2S	168.7E	0	4.0b	**¶97x2235**	
NEIC	X 13 14 15 45.5	18.25S	168.69E	33	4.2b		
NEIC	Less reliable solution.						
ISC	**X 14 16 03 03**±4.6	**14.0S**±.28	**165.9E**±.64	**400**	**3.8b**	**12 20-147**	
EIDC	X 14 16 03 28.4	14.5S	164.5E	608	3.2b	**¶97x2436**	
ISC	**X 14 16 53 36**±1.7	**16.9S**±.17	**168.3E**±.26	**33**	**3.8b**	**6 5-88**	
EIDC	X 14 16 53 31.7	16.9S	168.5E	0	3.8b	**¶97x2449**	
NEIC	X 14 16 53 35.5	16.90S	168.33E	33	4.5b		
NEIC	Poor solution.						
ISC	**X 15 17 56 30**±1.7	**14.4S**±.11	**167.2E**±.10	**183**±19	**4.4b**	**90 3-154**	
NEIC	X 15 17 56 31.2	14.50S	167.23E	200	4.5b	**¶97x2689**	
EIDC	X 15 17 56 33.9	14.6S	167.2E	210	4.0b		
ISC	**X 16 22 24 42**±1.4	**14.81S**±.068	**167.35E**±.095	**124**±12	**4.4b**	**112 3-154**	
BJI	X 16 22 24 39.0	14.80S	167.40E	100	4.5b	**¶97x2887**	
NEIC	X 16 22 24 39.0	14.75S	167.39E	100	4.6b		
EIDC	X 16 22 24 39.2	14.8S	167.6E	93	4.2b,3.7s		
ISC	**X 20 04 52 59**±2.1	**18.8S**±.22	**169.2E**±.34	**238**±11	**4.1b**	**9 1-148**	
NEIC	X 20 04 52 56.6	18.33S	168.90E	200	4.1b	**¶97x3441**	
EIDC	X 20 04 53 03.1	18.5S	169.0E	253	3.8b		
NEIC	Poor solution.						
ISC	**X 20 06 38 55**±1.3	**17.4S**±.17	**167.8E**±.13	**33**	**4.0b**	**12 0-148**	
EIDC	X 20 06 38 52.7	17.4S	167.8E	0	4.2b	**¶97x3454**	
NEIC	X 20 06 38 57.9	17.48S	167.50E	33	4.1b		
NEIC	Poor solution.						
ISC	**X 22 13 00 22**±1.9	**20.7S**±.15	**169.5E**±.13	**42**±17	**4.0b**	**13 3-146**	
EIDC	X 22 13 00 19.0	20.6S	169.4E	0	4.0b	**¶97x3817**	
NEIC	X 22 13 00 21.1	20.59S	169.44E	33	3.6b		
NEIC	Poor solution.						
ISC	**X 25 20 52 14**±1.6	**20.87S**±.082	**169.6E**±.10	**89**±14	**4.3b**	**62 3-154**	
BJI	X 25 20 52 13.0	20.80S	169.70E	82	4.5b	**¶97x4372**	
NEIC	X 25 20 52 13.0	20.79S	169.67E	82	4.3b		
EIDC	X 25 20 52 13.1	20.7S	169.9E	73	4.1b,3.6s		
NEIC	Less reliable solution.						
EIDC	Multiple, mixed az						
ISC	**X 26 11 11 31**±5.4	**19.45S**±.098	**168.0E**±.11	**3**±34	**4.2b**	**28 2-153**	
NEIC	X 26 11 11 35.1	19.56S	168.06E	33	4.3b	**¶97x4452**	
EIDC	X 26 11 11 37.6	19.5S	168.1E	35	4.0b		
NEIC	Less reliable solution.						

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**27 17 30 20.5**±.84	**19.14S**±.050	**169.34E**±.065	**249**±8.4	**4.4b**	**113**	**2-152**
EIDC	X	27 17 30 19.3	19.1S	169.4E	227	4.0b		**¶97x4639**
BJI	X	27 17 30 20.1	18.99S	169.22E	241	4.4b		
NEIC	X	27 17 30 20.3	19.16S	169.35E	250	4.6b		
ISC	**X**	**29 12 05 36**±3.4	**16.5S**±.28	**167.8E**±.33	**33**	**4.4b**,3.8s	**15**	**1-148**
NEIC	X	29 12 05 32.1	16.45S	168.34E	33	4.6b		**¶97x4904**
EIDC	X	29 12 05 33.3	16.3S	167.7E	0	4.6b,3.8s		
NEIC	Poor solution.							
ISC	**X**	**29 20 23 11**±1.9	**18.9S**±.17	**168.8E**±.28	**174**±11	**4.0b**	**12**	**1-148**
EIDC	X	29 20 22 49.6	18.8S	169.4E	0	4.1b		**¶97x4946**
NEIC	X	29 20 22 57.9	17.63S	168.49E	33	4.2b		
NEIC	Poor solution.							
ISC	**X**	**30 21 59 32**±2.4	**17.6S**±.17	**167.8E**±.21	**24**±25	**4.4b**,3.7s	**35**	**0-151**
EIDC	X	30 21 59 28.4	17.7S	168.1E	0	4.3b,3.7s		**¶97x5093**
NEIC	X	30 21 59 32.8	17.62S	167.84E	33	4.7b		
NEIC	Less reliable solution.							
EIDC	**X**	**30 23 18 42.6**	**20.2S**	**169.4E**	**0**	**3.9b**		**¶97x5105**
ISC	**X**	**31 12 29 53**±1.1	**13.15S**±.033	**166.89E**±.035	**207**±10	**5.2b**	**431**	**5-172**
NEIC	X	31 12 29 49.8	13.12S	166.92E	183	5.4b		**¶97x5180**
BJI	X	31 12 29 50.1	13.02S	166.97E	184	5.5b		
MOS	X	31 12 29 51.4	13.0S	166.9E	190	5.6b		
EIDC	X	31 12 29 51.5	13.1S	167.0E	183	5.2b,5.0s		
HRVD	X	31 12 29 56.0±.3	13.14S±.02	166.71E±.02	186±1.0			
NEIC	Mw5.9(HRV).							
NEIC	Mo=1.3×10^{18}Nm (PPT).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c39; Mantle waves: s12,c18; Half duration: 2s2. Moment tensor: Scale 10^{17}Nm; M_{rr}6.62±.17; $M_{\theta\theta}$0.94±.21; $M_{\phi\phi}$−7.56±.22; $M_{r\theta}$−2.90±.16; $M_{r\phi}$−0.05±.17; $M_{\theta\phi}$2.84±.25. Principal Axes: T 7.93,Plg65°,Azm169°; N 0.54,Plg24°,Azm341°; P −8.47,Plg3°,Azm72°. Best double couple: $M_0$8.2×10^{17}Nm, NP1:ϕ_S186°,δ47°,λ124°. NP2:ϕ_S321°,δ53°,λ59°.							
ISC	**X**	**31 12 48 46.8**±.93	**19.05S**±.085	**169.31E**±.080	**257**±8.8	**4.6b**	**65**	**2-152**
NEIC	X	31 12 48 45.9	18.99S	169.30E	250	4.8b		**¶97x5185**
EIDC	X	31 12 48 50.2	19.1S	169.3E	279	4.4b		
EIDC	**XI**	**03 05 00 46.6**	**20.9S**	**170.8E**	**0**	**3.9b**		**¶97xi0408**
EIDC	LO CONF Location							
ISC	**XI**	**03 12 07 57**±1.4	**16.4S**±.14	**168.0E**±.19	**100**	**3.7b**	**9**	**1-148**
EIDC	XI	03 12 07 41.9	17.1S	168.9E	0	3.9b		**¶97xi0460**
NEIC	XI	03 12 07 55.7	16.50S	168.24E	100	3.9b		
NEIC	Poor solution.							
ISC	**XI**	**03 15 28 16**±1.6	**16.0S**±.10	**168.0E**±.10	**73**±16	**4.1b**	**34**	**2-148**
NEIC	XI	03 15 28 11.5	15.80S	167.92E	33	4.3b		**¶97xi0487**
BJI	XI	03 15 28 13.1	15.95S	167.29E	5	5.1b		
EIDC	XI	03 15 28 16.7	15.7S	168.0E	66	3.8b		
NEIC	Less reliable solution.							
EIDC	**XI**	**03 22 29 17.6**	**18.0S**	**170.2E**	**0**	**4.4b**		**¶97xi0527**
ISC	**XI**	**04 02 47 24.6**±.51	**15.2S**±.13	**167.6E**±.11	**33**	**4.5b,4.3s**	**48**	**3-149**
BJI	XI	04 02 47 24.5	15.10S	167.50E	33	4.8b		**¶97xi0560**
NEIC	XI	04 02 47 24.5	15.10S	167.49E	33	4.7b		
EIDC	XI	04 02 47 38.3	15.2S	167.5E	145	3.9b,4.3s		
NEIC	Less reliable solution.							
ISC	**XI**	**04 08 56 51.3**±.66	**15.57S**±.096	**167.8E**±.10	**33**	**4.2b,4.2s**	**26**	**2-148**
NEIC	XI	04 08 56 57.9	15.67S	167.69E	93	4.4b		**¶97xi0604**
EIDC	XI	04 08 56 58.2	15.8S	167.8E	91	3.7b,4.2s		
BJI	XI	04 08 57 01.6	15.70S	167.70E	93	4.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**04 11 58 06**±2.3	**13.35S**±.087	**166.4E**±.14	**69**±20	**4.3b**	**48**	**5-171**
NEIC	XI	04 11 58 01.6	13.21S	166.42E	33	4.5b		**¶97xi0628**
BJI	XI	04 11 58 02.2	12.61S	166.07E	10	4.8b		
EIDC	XI	04 11 58 03.0	13.3S	166.7E	37	4.3b,4.0s		
NEIC	Less reliable solution.							
ISC	**XI**	**04 17 51 23**±2.5	**13.3S**±.10	**166.2E**±.15	**36**±21	**4.0b**	**17**	**7-152**
EIDC	XI	04 17 51 18.2	13.4S	166.5E	0	4.1b,3.6L		**¶97xi0670**
NEIC	XI	04 17 51 22.4	13.29S	166.27E	33	4.4b		
NEIC	Less reliable solution.							
EIDC	**XI**	**07 09 36 54.6**	**13.2S**	**166.8E**	**0**	**3.6b**,3.8s		**¶97xi1109**
ISC	**XI**	**08 07 18 20**±1.3	**14.9S**±.16	**167.0E**±.15	**33**	**3.8b**	**21**	**3-149**
EIDC	XI	08 07 18 11.3	16.4S	168.1E	0	4.0b		**¶97xi1229**
NEIC	XI	08 07 18 19.8	15.27S	167.05E	33	3.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**08 15 22 24**±2.3	**15.4S**±.21	**167.4E**±.26	**150**	**4.0b**	**12**	**2-148**
NEIC	XI	08 15 22 25.8	15.40S	167.19E	150	4.3b		**¶97xi1301**
EIDC	XI	08 15 23 21.3	16.6S	165.2E	626	2.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**09 12 52 47**±1.4	**17.2S**±.12	**166.9E**±.12	**46**±20	**4.1b**,3.2s	**14**	**1-147**
NEIC	XI	09 12 52 45.8	17.16S	166.86E	33	4.1b		**¶97xi1447**
EIDC	XI	09 12 53 08.0	15.4S	165.4E	161	3.7b,3.2s		
NEIC	Less reliable solution.							
ISC	**XI**	**09 15 54 20**±1.3	**19.1S**±.16	**169.2E**±.16	**232**±11	**4.1b**	**16**	**2-148**
NEIC	XI	09 15 54 18.1	19.03S	169.29E	223	3.9b		**¶97xi1468**
EIDC	XI	09 15 54 22.6	18.9S	169.1E	246	3.8b		
NEIC	Poor solution.							
ISC	**XI**	**12 04 22 34**±1.7	**13.14S**±.080	**166.4E**±.11	**52**±15	**4.6b,4.9s**	**34**	**5-169**
EIDC	XI	12 04 22 26.3	13.2S	166.8E	0	4.3b,4.6L		**¶97xi1933**
BJI	XI	12 04 22 31.4	13.10S	166.50E	33	4.9b,5.2s		
NEIC	XI	12 04 22 31.4	13.13S	166.51E	33	4.7b		
NEIC	Less reliable solution.							
EIDC	**XI**	**15 11 59 26.3**	**20.0S**	**169.9E**	**0**	4.0b		**¶97xi2467**
ISC	**XI**	**15 18 59 25**±1.0	**15.13S**±.034	**167.34E**±.028	**129**±9.4	**6.1b**	**760**	**3-171**
BJI	XI	15 18 59 23.4	14.59S	167.68E	115	6.3b		**¶97xi2519**
NEIC	XI	15 18 59 24.3	15.15S	167.38E	123	6.4b		
EIDC	XI	15 18 59 26.5	15.1S	167.5E	132	5.6b		
MOS	XI	15 18 59 26.9	15.1S	167.3E	147	6.7b		
HRVD	XI	15 18 59 32.8±.1	14.92S±.01	167.21E±.01	122±.3			
NEIC	Mw7.0(GS), Me6.7(GS).							
NEIC	Mw 7.0 (HRV). Mb 6.8 (BRK).							
NEIC	Radiated energy from the P−wave first−motion solution: 2.8±0.5×10^{14}Nm/21							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S180°,δ50°,λ105°. NP2:ϕ_S337°,δ42°,λ73°. Principal axes: T Plg78°,Azm151°; P Plg4°,Azm259°. Complex earthquake with at least one larger event occurring about 3 seconds after the onset. Depth and focal mechanism based on second event.							
NEIC	Moment tensor solution: s38, scale 10^{19}Nm; M_{rr}3.90; $M_{\theta\theta}$0.15; $M_{\phi\phi}$−4.04; $M_{r\theta}$−0.65; $M_{r\phi}$−0.41; $M_{\theta\phi}$−0.23. Depth 116km; Principal axes: T 4.02,Plg80°,Azm164°; N 0.06,Plg9°, Azm4°; P −4.08,Plg3°,Azm274°. Best double couple: $M_0$4.1×10^{19}Nm; NP1:ϕ_S354°,δ43°, λ76°. NP2:ϕ_S192°,δ49°,λ102°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c122; Mantle waves: s45,c120; Half duration: 7s7. Moment tensor: Scale 10^{19}Nm; M_{rr}3.92±.02; $M_{\theta\theta}$0.21±.01; $M_{\phi\phi}$−4.13±.01; $M_{r\theta}$−0.74±.01; $M_{r\phi}$−0.45±.01; $M_{\theta\phi}$−0.57±.01. Principal Axes: T 4.08,Plg79°,Azm167°; N 0.16,Plg10°,Azm9°; P −4.24,Plg4°,Azm278°. Best double couple: $M_0$4.2×10^{19}Nm, NP1:ϕ_S357°,δ42°,λ75°. NP2:ϕ_S197°,δ50°,λ103°.							
ISC	**XI**	**15 19 35 52**±2.3	**15.2S**±.22	**167.1E**±.25	**150**	**3.7b**	**10**	**3-148**
EIDC	XI	15 19 35 32.0	14.8S	167.9E	0	4.0b		**¶97xi2523**
NEIC	XI	15 19 35 48.6	15.05S	167.63E	150	4.0b		
NEIC	Poor solution.							
NEIC	**XI**	**15 20 27 17.3**	**14.52S**	**166.78E**	**33**			**8-148**
EIDC	XI	15 20 27 09.7	14.7S	167.5E	0	4.0b		**¶97xi2531**
NEIC	Poor solution.							
ISC	**XI**	**15 20 50 15**±3.5	**15.0S**±.23	**167.2E**±.26	**107**±44	**4.0b**	**40**	**3-169**
BJI	XI	15 20 50 17.9	15.10S	167.20E	131	5.0b		**¶97xi2536**
NEIC	XI	15 20 50 17.9	15.14S	167.21E	131	4.1b		
EIDC	XI	15 20 50 18.5	15.1S	167.3E	128	3.7b		
NEIC	Less reliable solution.							
ISC	**XI**	**16 12 57 24**±4.2	**14.8S**±.26	**167.1E**±.23	**80**±48	**4.3b**	**42**	**3-150**
EIDC	XI	16 12 57 25.0	15.2S	167.7E	97	4.1b,3.7s		**¶97xi2649**
NEIC	XI	16 12 57 25.3	14.89S	167.21E	100	4.4b		
BJI	XI	16 12 57 26.0	14.80S	167.61E	119	4.3b		
NEIC	Less reliable solution.							
ISC	**XI**	**16 20 57 29**±3.9	**13.1S**±.22	**167.5E**±.26	**216**±43	**3.9b**	**13**	**9-148**
NEIC	XI	16 20 57 24.6	12.92S	167.74E	200	4.3b		**¶97xi2694**
BJI	XI	16 20 57 26.6	12.90S	167.70E	200	4.4b		
EIDC	XI	16 20 57 43.1	11.7S	166.7E	265	3.5b		
NEIC	Poor solution.							
ISC	**XI**	**16 21 33 47**±2.7	**19.3S**±.42	**169.9E**±.41	**288**±27	**4.2b**	**11**	**4-149**
EIDC	XI	16 21 33 14.0	19.4S	170.9E	0	4.6b		**¶97xi2697**
NEIC	XI	16 21 33 47.9	19.06S	169.61E	281	4.6b		
NEIC	Poor solution.							
ISC	**XI**	**16 22 37 48**±1.5	**13.0S**±.17	**167.0E**±.23	**207**	**4.3b**	**22**	**20-152**
NEIC	XI	16 22 37 48.0	13.06S	166.98E	207	4.6b		**¶97xi2704**
EIDC	XI	16 22 37 48.8	13.1S	167.1E	203	4.1b		
NEIC	Less reliable solution.							
EIDC	**XI**	**17 17 30 37.2**	**13.7S**	**166.9E**	**0**	**4.1b**,4.0L		**¶97xi2839**
ISC	**XI**	**17 17 35 02**±1.4	**14.90S**±.092	**167.3E**±.12	**148**±13	**4.2b**	**46**	**3-150**
BJI	XI	17 17 34 58.5	15.19S	167.70E	138	4.8b		**¶97xi2840**
NEIC	XI	17 17 35 01.4	14.88S	167.28E	138	4.5b		
EIDC	XI	17 17 35 01.9	14.9S	167.4E	132	4.1b,3.0s		
NEIC	Less reliable solution.							
EIDC	**XI**	**17 18 43 47.6**	**14.8S**	**167.6E**	**0**	**3.8b**		**¶97xi2846**
ISC	**XI**	**18 00 35 12**±5.4	**13.8S**±.28	**166.5E**±.17	**83**±51	**3.8b**	**12**	**8-153**
EIDC	XI	18 00 35 03.3	13.8S	166.7E	0	4.0b,3.2s		**¶97xi2882**
NEIC	XI	18 00 35 06.8	13.58S	166.50E	33			
NEIC	Less reliable solution.							
ISC	**XI**	**18 09 22 51**±2.9	**15.6S**±.18	**168.2E**±.18	**61**±29	**4.6b**	**25**	**2-149**
EIDC	XI	18 09 22 43.5	15.7S	168.5E	0	4.4b,3.9s		**¶97xi2935**
NEIC	XI	18 09 22 46.8	15.61S	168.34E	33	4.7b		
BJI	XI	18 09 22 48.2	15.94S	168.39E	40	5.0b		
NEIC	Less reliable solution.							
ISC	**XI**	**18 10 10 25**±3.2	**15.7S**±.21	**168.1E**±.13	**52**±31	**4.4b**,4.9s	**29**	**2-148**
EIDC	XI	18 10 10 16.6	16.2S	168.8E	0	4.4b		**¶97xi2941**
NEIC	XI	18 10 10 22.2	15.38S	168.01E	33	4.5b		
BJI	XI	18 10 10 25.2	15.40S	168.00E	33	5.0b		
NEIC	Less reliable solution.							
ISC	**XI**	**18 10 11 13.9**±.82	**15.7S**±.10	**168.0E**±.14	**33**	**4.6b**	**28**	**6-148**
EIDC	XI	18 10 11 07.8	16.0S	168.7E	0	4.4b		**¶97xi2942**
NEIC	XI	18 10 11 12.8	15.67S	168.15E	33	4.8b		
BJI	XI	18 10 11 15.3	16.13S	168.15E	49	4.9b,5.1s		
NEIC	Less reliable solution.							
ISC	**XI**	**18 17 37 02**±2.4	**17.8S**±.45	**168.6E**±.41	**33**	**4.0b**	**16**	**5-149**
EIDC	XI	18 17 36 56.8	17.9S	169.0E	0	4.0b		**¶97xi3025**
NEIC	XI	18 17 37 00.6	17.95S	168.82E	33	4.2b		
NEIC	Poor solution.							
ISC	**XI**	**20 11 41 00.0**±.80	**18.0S**±.15	**167.4E**±.12	**33**	**4.1b**,3.3s	**9**	**1-90**
EIDC	XI	20 11 40 57.5	17.6S	167.2E	0	4.2b,3.3s		**¶97xi3455**
NEIC	XI	20 11 40 59.8	17.96S	167.40E	33	4.1b		
NEIC	Poor solution.							
ISC	**XI**	**20 23 04 59**±5.1	**14.4S**±.47	**166.8E**±.44	**33**	**4.0b**	**7**	**4-148**
EIDC	XI	20 23 04 51.6	14.3S	167.4E	0	4.2b		**¶97xi3546**
NEIC	XI	20 23 04 56.8	14.25S	167.02E	33			
NEIC	Poor solution.							
ISC	**XI**	**21 16 31 23**±1.3	**15.0S**±.14	**167.1E**±.20	**33**	**3.6b**	**19**	**3-146**
EIDC	XI	21 16 31 16.3	15.5S	167.7E	0	3.7b		**¶97xi3686**
NEIC	XI	21 16 31 22.0	15.06S	167.27E	33			
NEIC	Less reliable solution.							
ISC	**XI**	**22 17 59 31**±5.6	**15.0S**±.38	**166.9E**±.17	**85**±54	**4.0b**	**17**	**3-148**
EIDC	XI	22 17 59 16.1	15.1S	167.8E	0	4.2b		**¶97xi3930**
NEIC	XI	22 17 59 32.9	15.12S	166.91E	100	4.4b		
NEIC	Less reliable solution.							
ISC	**XI**	**22 23 56 57**±1.2	**15.27S**±.049	**167.52E**±.057	**140**±11	**4.8b**	**153**	**2-171**
NEIC	XI	22 23 56 56.6	15.25S	167.54E	140	5.0b		**¶97xi3984**
BJI	XI	22 23 56 57.4	15.15S	167.75E	154	5.1b		
EIDC	XI	22 23 56 58.6	15.2S	167.5E	142	4.4b,3.8s		
ISC	**XI**	**23 06 19 17**±4.0	**14.6S**±.39	**166.6E**±.35	**33**	**4.0b**	**9**	**3-147**
EIDC	XI	23 06 19 07.6	14.2S	167.3E	0	4.1b		**¶97xi4054**
ISC	**XI**	**23 14 17 48**±5.5	**14.6S**±.49	**167.1E**±.48	**100**	**3.4b**	**5**	**3-33**
EIDC	XI	23 14 18 49.5	17.3S	159.3E	0	3.1b		**¶97xi4130**
ISC	**XI**	**23 16 18 14**±4.6	**14.0S**±.35	**167.0E**±.25	**272**±52	**4.1b**	**18**	**8-148**
EIDC	XI	23 16 18 08.5	14.1S	167.3E	212	3.8b		**¶97xi4150**
NEIC	XI	23 16 18 13.3	13.96S	167.02E	265	4.3b		
NEIC	Poor solution.							
ISC	**XI**	**23 19 08 20**±1.6	**19.08S**±.071	**169.92E**±.089	**34**±13	**4.9b,4.4s**	**80**	**2-152**
BJI	XI	23 19 08 20.3	18.90S	170.04E	34	4.9b,5.0s		**¶97xi4179**
NEIC	XI	23 19 08 20.5	19.05S	169.88E	33	4.9b,4.6s		
EIDC	XI	23 19 08 23.0	19.0S	170.0E	40	4.6b,4.2s		
ISC	**XI**	**24 07 59 03**±3.8	**14.3S**±.23	**167.1E**±.19	**184**±36	**4.1b**	**33**	**8-148**
NEIC	XI	24 07 59 02.5	14.26S	167.09E	179	4.4b		**¶97xi4281**
EIDC	XI	24 07 59 15.2	14.4S	167.0E	284	3.5b		
ISC	**XI**	**26 07 10 28**±1.9	**15.0S**±.13	**167.2E**±.10	**147**±18	**4.6b**	**80**	**3-154**
NEIC	XI	26 07 10 27.8	14.96S	167.23E	150	5.1b		**¶97xi4647**
BJI	XI	26 07 10 28.0	15.14S	167.38E	167	4.3b		
EIDC	XI	26 07 10 29.7	14.9S	167.2E	150	4.4b		
NEIC	Less reliable solution.							
ISC	**XI**	**26 18 26 11**±5.5	**14.8S**±.49	**167.7E**±.31	**157**±61	**4.1b**	**8**	**3-120**
EIDC	XI	26 18 26 19.8	14.3S	167.2E	208	3.7b		**¶97xi4731**
ISC	**XI**	**27 11 55 24**±2.0	**14.6S**±.13	**167.2E**±.16	**149**±25	**4.3b**	**74**	**3-150**
NEIC	XI	27 11 55 29.3	14.76S	167.16E	200	4.6b		**¶97xi4851**
EIDC	XI	27 11 55 30.0	14.8S	167.2E	197	4.1b		
BJI	XI	27 11 55 35.3	13.97S	166.30E	200	4.7b		
NEIC	Less reliable solution.							
ISC	**XI**	**27 15 41 00**±3.6	**15.0S**±.28	**167.1E**±.26	**119**±34	**4.0b**	**15**	**3-148**
NEIC	XI	27 15 40 56.9	14.86S	167.23E	100	4.3b		**¶97xi4890**
EIDC	XI	27 15 41 40.6	15.7S	165.8E	432	3.4b		
NEIC	Poor solution.							

EIDC XI 27 16 55 29.1 17.8S 169.9E 0 4.2b ¶97xi4902
ISC XI 27 20 21 29±2.4 **15.3S**±.23 **167.2E**±.28 **150 3.6b 8 3-148**
EIDC XI 27 20 21 08.5 15.0S 167.9E 0 3.8b **¶97xi4930**
ISC XI 28 03 57 20±4.0 **15.2S**±.38 **167.2E**±.38 **150 3.8b 6 3-40**
EIDC XI 28 03 57 31.0 15.7S 164.2E 0 4.0b **¶97xi5005**
ISC XI 28 04 34 39±5.0 **14.4S**±.46 **166.7E**±.42 **33 3.6b 6 4-147**
EIDC XI 28 04 34 30.1 14.2S 167.4E 0 3.7b **¶97xi5007**
NEIC XI 28 04 34 37.4 14.37S 166.82E 33
EIDC LO CONF Depth
NEIC Poor solution.
ISC XI 30 07 05 00±7.8 **19.2S**±.24 **168E**±1.1 **150 4.5b 8 2-145**
¶97xi5379
EIDC XII 01 09 38 50.2 15.2S 165.0E 0 4.0b 4-38
¶97xii0062
EIDC Origin time error = 42.75Error ellipse is semi−major=722.1km semi−minor=88.7km azimuth=68LO CONF Location
ISC XII 01 13 15 24±1.1 **14.4S**±.11 **167.0E**±.16 **33 4.0b 19 3-148**
EIDC XII 01 13 15 17.5±1.58 14.8S 167.7E 0 4.0b **¶97xii0091**
NEIC XII 01 13 15 22.7 14.50S 167.21E 33
EIDC Error ellipse is semi−major=68.9km semi−minor=24.1km azimuth=141
NEIC Less reliable solution.
ISC XII 01 15 55 29.8±.99 **16.3S**±.12 **167.2E**±.15 **33 4.1b,**3.4s **11 2-147**
NEIC XII 01 15 55 31.0 15.37S 166.59E 33 4.6b **¶97xii0109**
EIDC XII 01 15 55 33.9±2.18 15.6S 166.8E 50±12.8 3.9b,3.4s
BJI XII 01 15 55 39.9 15.23S 165.82E 33 5.1b
NEIC Poor solution.
EIDC Error ellipse is semi−major=97.1km semi−minor=30.8km azimuth=140
ISC XII 02 02 47 23±2.1 **14.7S**±.19 **166.7E**±.22 **33 4.6b 17 3-147**
EIDC XII 02 02 47 12.5±1.39 15.0S 168.0E 0 4.6b **¶97xii0174**
NEIC XII 02 02 47 17.6 14.49S 167.43E 33 4.7b
EIDC Error ellipse is semi−major=61.2km semi−minor=29.5km azimuth=148
NEIC Poor solution.
EIDC XII 04 12 17 09.2±2.90 **16.1S 168.8E 0 3.6b 2-149**
¶97xii0611
EIDC Error ellipse is semi−major=163.7km semi−minor=34.6km azimuth=147
ISC XII 05 20 31 36±6.7 **13.10S**±.065 **166.4E**±.12 **5**±39 **4.7b,**4.8s **82 5-169**
EIDC XII 05 20 31 36.7±.90 13.2S 166.5E 0 4.7b,4.5L **¶97xii1080**
NEIC XII 05 20 31 38.6 13.10S 166.54E 33 4.6b
BJI XII 05 20 31 39.9 12.91S 166.73E 34 4.8b,5.4s
EIDC Error ellipse is semi−major=25.5km semi−minor=17.0km azimuth=114
ISC XII 07 10 09 57±4.6 **13.30S**±.094 **166.2E**±.13 **30**±32 **4.2b,**3.8s **34 5-147**
BJI XII 07 10 09 55.9 13.20S 166.30E 33 5.0b **¶97xii1673**
NEIC XII 07 10 09 55.9 13.21S 166.31E 33 4.5b
EIDC XII 07 10 09 59.9±1.19 13.3S 166.2E 41±7.0 3.8b,4.2s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=27.1km semi−minor=17.2km azimuth=115
ISC XII 07 16 23 21.3±.68 **13.18S**±.075 **166.4E**±.11 **33 4.4b,5.0s 63 5-169**
EIDC XII 07 16 23 17.8±.99 13.2S 166.6E 0 4.4b,4.0L **¶97xii1736**
BJI XII 07 16 23 20.5 13.20S 166.50E 33 5.2b,5.9s
NEIC XII 07 16 23 20.5 13.20S 166.53E 33 4.8b,4.2s
EIDC Error ellipse is semi−major=28.6km semi−minor=23.0km azimuth=140
NEIC Less reliable solution.
ISC XII 07 16 31 13±2.1 **13.21S**±.080 **166.1E**±.10 **77**±19 **4.5b 76 5-171**
EIDC XII 07 16 31 03.2±.77 13.2S 166.5E 0 4.6b,4.3L **¶97xii1739**
NEIC XII 07 16 31 06.1 13.12S 166.40E 33 4.6b
BJI XII 07 16 31 09.1 12.57S 166.73E 34 4.6b,5.5s
EIDC Error ellipse is semi−major=22.4km semi−minor=17.2km azimuth=122
ISC XII 08 01 47 39±3.0 **14.44S**±.049 **167.31E**±.044 **26**±21 **5.2b,5.2s 235 3-172**
MOS XII 08 01 47 39.9 14.3S 167.4E 33 5.6b,5.1s **¶97xii1837**
BJI XII 08 01 47 39.9 14.40S 167.20E 33 5.3b,5.5s
NEIC XII 08 01 47 39.9 14.40S 167.29E 33 5.3b,5.2s
HRVD XII 08 01 47 42.9±.2 14.49S±.02 167.30E±.02 26±2.2
EIDC XII 08 01 47 47.4±.58 14.4S 167.2E 80±3.3 4.6b,4.8s
NEIC Mw5.7(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c63; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.47±.06; $M_{\theta\theta}$2.44±.09; $M_{\phi\phi}$−1.97±.11; $M_{r\theta}$−0.18±.22; $M_{r\phi}$0.69±.23; $M_{\theta\phi}$3.63±.08. Principal Axes: T 4.49,Plg2°,Azm330°; N −0.35, Plg79°,Azm229°; P −4.14,Plg11°,Azm61°. Best double couple: $M_0$4.3×10^{17}Nm, NP1: ϕ_S105°,δ81°,λ−6°. NP2:ϕ_S196°,δ84°,λ−171°.
EIDC Error ellipse is semi−major=18.3km semi−minor=11.9km azimuth=145
ISC XII 09 12 52 05.9±.92 **18.93S**±.071 **168.99E**±.081 **161**±9.1 **4.3b 37 1-125**
NEIC XII 09 12 52 04.8 18.90S 169.01E 152 4.5b **¶97xii2170**
EIDC XII 09 12 52 06.4±1.17 19.0S 169.0E 152±7.3 3.9b
EIDC Error ellipse is semi−major=25.5km semi−minor=21.1km azimuth=155
ISC XII 11 05 43 25±4.9 **14.8S**±.28 **167.2E**±.23 **131**±44 **3.7b 9 7-148**
NEIC XII 11 05 43 21.2 14.67S 167.20E 100 4.4b **¶97xii2501**
EIDC XII 11 05 43 23.5 14.7S 167.3E 106±151.4 3.5b
NEIC Poor solution.
EIDC Origin time error = 17.86Error ellipse is semi−major=60.8km semi−minor=44.4km azimuth=77
ISC XII 11 16 36 19±1.5 **19.8S**±.32 **170.0E**±.23 **287 4.1b 10 21-96**
EIDC XII 11 16 36 21.1±2.27 19.6S 170.0E 287±10.4 4.0b **¶97xii2602**
EIDC Error ellipse is semi−major=67.9km semi−minor=33.6km azimuth=154
EIDC XII 12 10 32 19.5 15.3S 166.8E 0 3.7b 28-32
¶97xii2733
EIDC Origin time error = 126.05Error ellipse is semi−major=2109.0km semi−minor=117.7km azimuth=65LO CONF Location
ISC XII 12 17 12 06±3.7 **18.7S**±.17 **169.0E**±.58 **255**±13 **4.2b 14 1-148**
EIDC XII 12 17 12 14.9 18.8S 168.8E 324±274.5 3.8b **¶97xii2788**
EIDC Origin time error = 35.26Error ellipse is semi−major=218.4km semi−minor=48.2km azimuth=84
ISC XII 13 01 42 12±1.5 **18.8S**±.17 **169.3E**±.21 **253**±9.7 **4.4b 16 2-144**
NEIC XII 13 01 42 16.1 18.82S 169.33E 300 4.1b **¶97xii2856**
EIDC XII 13 01 42 19.9 18.8S 169.2E 315±159.6 4.0b
NEIC Poor solution.
EIDC Origin time error = 17.54Error ellipse is semi−major=85.6km semi−minor=46.1km azimuth=113
EIDC XII 16 14 44 36.3±2.38 **19.4S 169.5E 0 3.7b 4-148**
¶97xii3466
EIDC Error ellipse is semi−major=121.7km semi−minor=48.4km azimuth=159
ISC XII 16 23 30 51±2.2 **18.7S**±.19 **169.6E**±.28 **281**±11 **3.9b 14 2-149**
EIDC XII 16 23 30 17.1±2.11 18.2S 170.4E 0 4.4b **¶97xii3522**
NEIC XII 16 23 30 48.8 18.61S 169.68E 267 4.0b
EIDC Error ellipse is semi−major=54.6km semi−minor=30.3km azimuth=21
NEIC Poor solution.
ISC XII 25 08 24 18.5±.93 **15.7S**±.12 **167.1E**±.11 **33 4.0b 32 2-150**
EIDC XII 25 08 24 17.5±1.78 14.9S 166.7E 0 4.1b **¶97xii4897**
NEIC XII 25 08 24 19.1 15.86S 167.15E 33 4.1b
EIDC Error ellipse is semi−major=102.0km semi−minor=21.4km azimuth=143
NEIC Less reliable solution.
ISC XII 25 11 30 30±1.6 **18.7S**±.23 **169.5E**±.25 **270**±10 **3.6b 13 2-149**
EIDC XII 25 11 30 38.6 18.3S 169.0E 327±282.2 3.4b **¶97xii4915**
EIDC Origin time error = 34.78Error ellipse is semi−major=334.4km semi−minor=47.1km azimuth=134
ISC XII 26 03 46 18±4.5 **14.5S**±.42 **166.7E**±.39 **33 3.8b 9 3-147**
EIDC XII 26 03 46 08.7±2.22 14.3S 167.4E 0 3.9b **¶97xii5038**
NEIC XII 26 03 46 12.7 14.20S 167.22E 33 4.1b
EIDC Error ellipse is semi−major=118.6km semi−minor=40.1km azimuth=142
NEIC Poor solution.
ISC XII 27 01 47 26±2.4 **15.4S**±.19 **167.5E**±.19 **136**±26 **3.8b 14 2-148**
EIDC XII 27 01 47 24.6 15.3S 167.6E 107±107.9 3.6b **¶97xii5224**
NEIC XII 27 01 47 24.7 15.39S 167.56E 124 3.5b
EIDC Origin time error = 12.93Error ellipse is semi−major=54.3km semi−minor=28.4km azimuth=84LO CONF Depth
NEIC Poor solution.
ISC XII 28 02 27 19±2.9 **14.9S**±.19 **167.2E**±.16 **105**±28 **4.2b 21 3-148**
NEIC XII 28 02 27 17.3 14.79S 167.28E 100 4.4b **¶97xii5380**
EIDC XII 28 02 27 29.2 15.0S 167.2E 186±87.8 4.0b
NEIC Less reliable solution.
EIDC Origin time error = 10.16Error ellipse is semi−major=46.0km semi−minor=26.0km azimuth=85
EIDC XII 30 18 30 49.3 20.4S 169.2E 0 3.6b 3-79
¶97xii5774
EIDC Origin time error = 17.81Error ellipse is semi−major=482.8km semi−minor=82.4km azimuth=133
ISC XII 31 08 07 29±2.2 **18.9S**±.22 **169.4E**±.33 **250**±11 **3.7b 12 2-149**
EIDC XII 31 08 06 58.9±1.77 18.9S 170.2E 0 4.1b **¶97xii5863**
NEIC XII 31 08 07 28.6 18.89S 169.45E 251 3.9b
EIDC Error ellipse is semi−major=93.5km semi−minor=25.6km azimuth=148
NEIC Poor solution.

(187) New Caledonia.

EIDC VIII 13 15 09 46.4 22.4S 167.8E 584 2.8b 20-146
¶97viii1929
ISC VIII 19 00 23 57±3.0 **22.4S**±.72 **168.7E**±.30 **33 3.6b 8 2-147**
EIDC VIII 19 00 23 54.5 21.8S 168.7E 0 3.7b **¶97viii2735**
NEIC VIII 19 00 23 58.5 21.87S 168.56E 33
NEIC Poor solution.
EIDC IX 28 03 14 38.8 21.8S 165.8E 0 3.9b ¶97ix4526
EIDC X 06 06 10 29.6 21.5S 166.0E 0 3.9b ¶97x1002
EIDC X 20 16 38 10.8 22.1S 165.9E 0 3.8b ¶97x3528
ISC XI 05 00 58 22±2.9 **22.9S**±.64 **168.8E**±.46 **33 4.0b 6 26-94**
EIDC XI 05 00 58 18.1 23.1S 169.1E 0 4.2b **¶97xi0714**
ISC XII 07 13 53 26±4.3 **22.5S**±.19 **168.5E**±.30 **74**±28 **4.1b 53 2-153**
EIDC XII 07 13 53 12.5±1.26 23.9S 169.3E 0 4.2b,4.5s **¶97xii1710**
NEIC XII 07 13 53 15.8 22.93S 169.24E 33 4.2b
BJI XII 07 13 53 17.8 22.90S 169.20E 33 4.9b
EIDC Error ellipse is semi−major=52.8km semi−minor=23.4km azimuth=164
NEIC Less reliable solution.
ISC XII 14 21 11 11±1.9 **22.6S**±.33 **168.4E**±.25 **100 3.9b 8 2-147**
EIDC XII 14 21 10 58.4±2.17 22.7S 168.7E 0 4.1b,3.3s **¶97xii3196**
EIDC Error ellipse is semi−major=93.3km semi−minor=34.2km azimuth=143

(188) Loyalty Islands.

ISC VII 04 05 54 36±2.8 **20.9S**±.45 **168.3E**±.48 **33 4.0b 13 2-148**
NEIC VII 04 05 54 36.5 20.90S 168.14E 33 4.5b **¶97vii0513**
EIDC VII 04 05 54 37.0 21.0S 168.3E 33 3.8b
NEIC Poor solution.
EIDC VII 25 16 00 49.8 20.9S 168.9E 0 4.0b 3-146
¶97vii3843
EIDC VIII 02 22 55 43.3 21.8S 168.5E 0 4.0b 26-146
¶97viii0267
ISC VIII 17 10 42 10±3.8 **21.5S**±.27 **168.4E**±.36 **46**±18 **4.0b,**3.4s **44 2-153**
EIDC VIII 17 10 42 03.5 21.6S 168.7E 0 4.0b,3.4s **¶97viii2525**
NEIC VIII 17 10 42 06.1 21.78S 168.67E 33 3.9b
NEIC Less reliable solution.
EIDC VIII 24 19 52 46.4 20.4S 166.6E 0 3.8b 25-145
¶97viii3582
ISC IX 08 16 55 12±1.9 **20.1S**±.22 **167.7E**±.39 **33 3.9b 7 2-145**
EIDC IX 08 16 55 10.2 19.6S 167.4E 0 3.9b **¶97ix1247**
NEIC IX 08 16 55 11.6 20.13S 167.75E 33
NEIC Poor solution.
ISC IX 14 14 53 48±4.8 **20.3S**±.64 **166.7E**±.79 **33 3.9b 4 25-91**
EIDC IX 14 14 53 43.6 20.4S 167.0E 0 4.1b **¶97ix2135**
ISC Poorly determined
EIDC IX 27 10 16 34.5 20.6S 167.9E 0 3.7b ¶97ix4328

(189) Loyalty Islands region.

EIDC VII 14 10 34 54.9 24.3S 172.8E 0 3.9b 28-36
¶97vii2106
ISC VII 18 21 31 54±2.1 **21.6S**±.47 **169.4E**±.28 **33 3.8b 11 3-147**
NEIC VII 18 21 31 55.7 21.50S 169.21E 33 **¶97vii2792**
EIDC VII 18 21 31 57.1 21.6S 169.4E 35 3.7b
NEIC Poor solution.
ISC VII 19 10 22 10±1.1 **21.8S**±.16 **169.8E**±.15 **38**±2.9* **4.3b 29 3-148**
EIDC VII 19 10 22 08.6 22.1S 170.3E 35 3.9b **¶97vii2857**
NEIC VII 19 10 22 08.7 21.73S 169.98E 33 4.5b
BJI VII 19 10 22 11.0 21.69S 169.87E 40 4.9b
NEIC Less reliable solution.
ISC VII 19 16 10 15±1.9 **22.99S**±.037 **169.90E**±.037 **19**±14 **5.4b,5.4s 476 3-163**
BJI VII 19 16 10 15.9 22.89S 170.08E 31 5.5b,5.8s **¶97vii2912**
NEIC VII 19 16 10 16.5 22.96S 169.86E 33 5.7b,5.4s
EIDC VII 19 16 10 16.8 23.1S 170.1E 29 5.0b,4.8L
MOS VII 19 16 10 16.9 22.9S 169.9E 33 6.0b
ISC VII 19 18 56 34.9±.32 **22.75S**±.049 **171.66E**±.066 **33 4.6b,4.6s 111 5-164**
EIDC VII 19 18 56 31.1 22.6S 171.7E 0 4.5b,4.2s **¶97vii2936**
NEIC VII 19 18 56 35.2 22.66S 171.63E 33 4.9b,4.6s
BJI VII 19 18 56 35.9 22.53S 171.64E 36 5.0b
ISC VII 26 22 36 24.1±.98 **23.1S**±.17 **170.6E**±.13 **33 4.5b,**3.7s **44 4-155**
EIDC VII 26 22 36 19.4 23.0S 170.8E 0 4.4b,3.8s **¶97vii4019**
NEIC VII 26 22 36 24.8 22.85S 170.51E 33 4.5b
BJI VII 26 22 36 28.6 22.91S 170.41E 50 4.8b
NEIC Less reliable solution.
ISC VIII 01 17 35 02±4.2 **21.1S**±.24 **170.0E**±.40 **115**±22 **4.0b 15 3-148**
NEIC VIII 01 17 35 04.0 21.04S 169.82E 119 3.8b **¶97viii0096**
EIDC VIII 01 17 35 05.7 20.9S 169.8E 123 3.6b
NEIC Poor solution.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 03 20 30 09**±2.1	**22.1S**±.44	**169.9E**±.26	**33**	**3.7b**	**15**	**3-148**
EIDC	VIII 03 20 30 07.5	22.3S	170.3E	25	3.6b		¶97viii0408
NEIC	VIII 03 20 30 07.9	22.19S	170.13E	33			
NEIC	Poor solution.						
ISC	**VIII 10 18 14 14**±3.7	**22.0S**±.40	**172.4E**±.35	**33**	**4.1b**	**11**	**6-150**
NEIC	VIII 10 18 14 13.8	22.07S	172.43E	33	4.3b		¶97viii1436
EIDC	VIII 10 18 14 13.9	21.0S	171.7E	0	4.0b		
NEIC	Poor solution.						
EIDC	**VIII 16 05 50 27.2**	**22.2S**	**173.3E**	**0**	**3.7b**		**36-92**
							¶97viii2323
ISC	**VIII 24 07 28 43**±4.3	**22.5S**±.17	**173.1E**±.23	**81**±32	**4.2b**	**18**	**6-150**
EIDC	VIII 24 07 28 33.5	22.4S	173.3E	0	4.1b		¶97viii3494
NEIC	VIII 24 07 28 45.4	22.47S	172.98E	100	4.5b		
NEIC	Less reliable solution.						
ISC	**VIII 27 10 56 54**±11	**21.6S**±.14	**169.8E**±.18	**8**±61	**4.0b**,3.5s	**22**	**3-147**
NEIC	VIII 27 10 56 57.1	21.66S	169.76E	33			¶97viii3979
EIDC	VIII 27 10 57 14.9	21.9S	169.6E	181	3.6b,3.5s		
NEIC	Less reliable solution.						
ISC	**IX 07 22 09 39**±3.9	**22.1S**±.19	**174.7E**±.19	**115**±32	**4.2b**	**28**	**8-155**
EIDC	IX 07 22 09 26.0	21.8S	174.8E	0	4.0s,4.2b		¶97ix1131
NEIC	IX 07 22 09 37.6	22.13S	174.75E	100	4.5b		
NEIC	Less reliable solution.						
EIDC	**IX 14 08 19 14.1**	**21.3S**	**170.5E**	**0**	**3.7b**		¶97ix2094
ISC	**IX 14 11 37 30**±2.5	**23.3S**±.31	**169.7E**±.34	**33**	**3.7b**	**8**	**3-148**
EIDC	IX 14 11 37 25.5	23.2S	169.9E	0	3.8b		¶97ix2115
NEIC	IX 14 11 37 30.8	23.42S	169.57E	33			
NEIC	Poor solution.						
ISC	**IX 17 09 56 03**±1.4	**23.1S**±.34	**169.3E**±.22	**33**	**4.1b**	**6**	**26-91**
EIDC	IX 17 09 55 59.1	23.0S	169.4E	0	4.2b		¶97ix2497
NEIC	IX 17 09 56 02.6	23.09S	169.27E	33	4.1b		
NEIC	Poor solution.						
ISC	**IX 17 23 29 00**±1.8	**22.54S**±.056	**171.43E**±.066	**40**±15	**4.9b,4.5s**	**184**	**5-167**
BJI	IX 17 23 29 00.3	21.79S	171.17E	19	5.1b		¶97ix2578
NEIC	IX 17 23 29 00.8	22.50S	171.43E	50	5.0b,4.8s		
EIDC	IX 17 23 29 06.2	22.6S	171.4E	81	4.4b,4.4s		
HRVD	IX 17 23 29 07.5±.9	22.01S±.12	171.14E±.12	104±7.9			
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c20; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.03±.48; $M_{\theta\theta}$−2.70±.90; $M_{\phi\phi}$−1.33±1.00; $M_{r\theta}$4.39±.69; $M_{r\phi}$0.99±.78; $M_{\theta\phi}$2.23±.79. Principal Axes: T 6.65,Plg59°,Azm333°; N −1.15, Plg22°,Azm105°; P −5.50,Plg21°,Azm204°. Best double couple: $M_0$6.1×10^{16}Nm, NP1: ϕ_S327°,δ31°,λ136°. NP2:ϕ_S96°,δ69°,λ67°.						
ISC	**IX 19 05 26 09**±3.2	**23.1S**±.28	**169.7E**±.38	**33**	**4.1b**,3.3s	**9**	**3-148**
EIDC	IX 19 05 26 08.6	22.9S	169.8E	27	3.9b,3.6s		¶97ix2751
ISC	**IX 20 04 19 37**±2.6	**22.9S**±.28	**170.4E**±.29	**33**	**4.2b**,3.6s	**12**	**4-148**
EIDC	IX 20 04 19 33.2	23.0S	170.5E	0	4.0b,3.6s		¶97ix2896
NEIC	IX 20 04 19 38.7	22.99S	170.21E	33	4.5b		
NEIC	Poor solution.						
ISC	**IX 27 07 07 12**±2.9	**22.9S**±.14	**169.6E**±.17	**39**±22	**4.2b**,3.7s	**36**	**3-150**
EIDC	IX 27 07 07 06.6	23.1S	169.8E	0	4.2b,3.7s		¶97ix4282
NEIC	IX 27 07 07 11.6	22.95S	169.59E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**IX 27 10 16 46**±8.4	**22.9S**±.14	**169.8E**±.22	**32**±55	**4.3b,4.4s**	**52**	**3-154**
EIDC	IX 27 10 16 43.5	22.9S	169.7E	0	4.3s,4.3b		¶97ix4329
NEIC	IX 27 10 16 45.3	22.84S	169.87E	33	4.2b		
BJI	IX 27 10 16 48.3	22.80S	169.80E	33	4.7b		
NEIC	Less reliable solution.						
ISC	**IX 27 10 18 07**±1.3	**23.2S**±.22	**169.6E**±.25	**33**	**4.3b**	**10**	**33-148**
EIDC	IX 27 10 18 04.3	23.1S	169.6E	0	4.4b		¶97ix4330
NEIC	IX 27 10 18 08.0	23.20S	169.51E	33			
NEIC	Poor solution.						
ISC	**X 01 04 49 37.1**±.77	**23.0S**±.12	**169.9E**±.12	**29**	**4.1b**	**27**	**3-150**
NEIC	X 01 04 49 37.2	23.16S	169.82E	29	4.2b		¶97x0029
EIDC	X 01 04 49 38.9	23.0S	169.9E	29	4.0b		
NEIC	Less reliable solution.						
ISC	**X 01 15 41 26**±1.6	**21.1S**±.47	**172.1E**±.27	**81**±1.4*	**4.2b**	**13**	**22-96**
EIDC	X 01 15 41 27.9	20.8S	172.1E	83	4.0b		¶97x0113
ISC	**X 08 11 13 02**±3.0	**22.5S**±.37	**170.7E**±.34	**33**	**3.7b**	**10**	**4-148**
EIDC	X 08 11 12 54.6	22.9S	171.3E	0	3.7b		¶97x1401
NEIC	X 08 11 13 01.7	22.46S	170.75E	33	4.3b		
NEIC	Poor solution.						
ISC	**X 11 00 21 15**±4.6	**22.1S**±.27	**170.5E**±.35	**123**±26	**4.2b**	**12**	**4-93**
NEIC	X 11 00 21 11.4	22.30S	170.80E	100	4.6b		¶97x1818
EIDC	X 11 00 21 25.7	22.2S	170.4E	205	3.8b		
NEIC	Poor solution.						
EIDC	LO CONF Depth						
ISC	**X 14 11 43 52**±3.0	**22.7S**±.69	**172.3E**±.51	**33**	**4.2b**	**7**	**29-93**
EIDC	X 14 11 43 48.0	22.9S	172.6E	0	4.1b		¶97x2392
NEIC	X 14 11 43 52.3	22.75S	172.36E	33	4.4b		
NEIC	Poor solution.						
ISC	**X 22 09 08 33**±9.6	**23.1S**±.18	**170.0E**±.24	**23**±64	**4.2b**	**17**	**3-148**
EIDC	X 22 09 08 31.0	23.1S	170.0E	0	4.2b		¶97x3781
NEIC	X 22 09 08 33.8	23.09S	170.00E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**X 30 19 34 28**±3.2	**22.8S**±.47	**171.6E**±.37	**33**	**3.9b**	**5**	**5-82**
EIDC	X 30 19 34 32.3	21.8S	170.4E	0	4.0b		¶97x5081
EIDC	**X 31 15 56 47.8**	**23.2S**	**170.0E**	**0**	4.1b		¶97x5199
ISC	**XI 09 18 41 04**±1.1	**23.1S**±.18	**169.1E**±.14	**33**	**4.0b**	**28**	**3-148**
EIDC	XI 09 18 40 58.5	23.5S	169.6E	0	4.0b		¶97xi1490
NEIC	XI 09 18 41 04.8	23.12S	169.10E	33	4.0b		
BJI	XI 09 18 41 08.2	22.52S	169.47E	21	5.0b		
NEIC	Less reliable solution.						
ISC	**XI 09 18 41 54**±1.0	**22.9S**±.14	**169.8E**±.17	**33**	**4.6b**,4.6s	**32**	**3-163**
BJI	XI 09 18 41 55.6	22.30S	168.57E	5	4.8b		¶97xi1491
ISC	**XI 13 21 48 30**±1.6	**22.7S**±.27	**170.6E**±.21	**33**	**3.7b**	**18**	**4-149**
EIDC	XI 13 21 48 24.3	23.0S	171.0E	0	3.8b		¶97xi2196
NEIC	XI 13 21 48 28.7	22.76S	170.74E	33	4.1b		
NEIC	Poor solution.						
EIDC	**XI 18 11 39 22.7**	**22.1S**	**170.3E**	**0**	**3.5b**		¶97xi2954
ISC	**XI 20 03 57 59**±3.1	**22.3S**±.80	**170.1E**±.35	**100**	**3.6b**	**5**	**3-148**
EIDC	XI 20 03 57 51.8	21.4S	169.8E	0	3.7b		¶97xi3389
ISC	Poorly determined						
EIDC	LO CONF Location						
ISC	**XI 22 21 30 44**±2.2	**21.5S**±.25	**170.0E**±.29	**33**	**4.1b**,4.0s	**24**	**3-150**
NEIC	XI 22 21 30 43.1	21.56S	170.05E	33	4.4b		¶97xi3963
BJI	XI 22 21 30 43.9	21.50S	170.28E	45			
EIDC	XI 22 21 30 57.4	21.6S	169.8E	137	3.9b,4.0s		
NEIC	Poor solution.						
ISC	**XI 22 22 40 37**±2.2	**21.5S**±.36	**169.9E**±.26	**33**	**3.8b**,3.8s	**13**	**3-148**
EIDC	XI 22 22 40 31.7	21.4S	170.2E	0	3.9b,3.9s		¶97xi3975
ISC	**XI 22 23 12 54**±2.2	**21.6S**±.28	**170.2E**±.28	**33**	**4.1b**,3.5s	**24**	**4-148**
EIDC	XI 22 23 12 49.1	21.7S	170.5E	0	4.2b,3.8s		¶97xi3980
NEIC	XI 22 23 12 54.2	21.48S	170.17E	33	4.2b		
BJI	XI 22 23 12 56.2	21.37S	170.32E	51			
NEIC	Poor solution.						
ISC	**XI 23 00 17 50**±1.7	**21.73S**±.056	**170.21E**±.072	**59**±14	**5.1b,5.3s**	**221**	**4-167**
EIDC	XI 23 00 17 45.4	21.7S	170.5E	19	4.6b,4.6L		¶97xi3987
NEIC	XI 23 00 17 45.9	21.69S	170.34E	33	5.2b,5.2s		
MOS	XI 23 00 17 46.9	21.7S	170.4E	33	5.8b,5.3s		
BJI	XI 23 00 17 48.7	21.62S	170.38E	48	5.3b,5.4s		
HRVD	XI 23 00 17 49.1±.4	21.59S±.05	170.59E±.05	15			
NEIC	Mw5.6(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c35; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.96±.11; $M_{\theta\theta}$0.85±.09; $M_{\phi\phi}$1.11±.14; $M_{r\theta}$−1.82±.34; $M_{r\phi}$0.13±.36; $M_{\theta\phi}$1.85±.12. Principal Axes: T 3.12,Plg14°,Azm138°; N −0.03, Plg30°,Azm236°; P −3.09,Plg56°,Azm26°. Best double couple: $M_0$3.1×10^{17}Nm, NP1: ϕ_S194°,δ41°,λ−140°. NP2:ϕ_S72°,δ65°,λ−57°.						
ISC	**XI 23 04 09 42**±4.4	**21.2S**±.71	**170.2E**±.53	**33**	**3.7b**	**8**	**4-148**
EIDC	XI 23 04 09 40.8	21.2S	170.0E	0	3.8b		¶97xi4026
ISC	**XII 22 14 25 09**±2.7	**22.6S**±.26	**171.9E**±.32	**33**	**4.0b**	**13**	**5-149**
EIDC	XII 22 14 25 04.0±2.58	23.1S	172.1E	0	4.1b		¶97xii4433
NEIC	XII 22 14 25 09.3	23.08S	171.69E	33	4.1b		
EIDC	Error ellipse is semi−major=77.2km semi−minor=51.1km azimuth=167						
NEIC	Poor solution.						
ISC	**XII 26 15 55 32**±3.3	**23.3S**±.63	**171.1E**±.41	**33**	**3.8b**	**7**	**5-149**
EIDC	XII 26 15 55 27.2±2.24	22.7S	171.4E	0	3.7b		¶97xii5170
EIDC	Error ellipse is semi−major=100.7km semi−minor=47.3km azimuth=162						
ISC	**XII 27 21 41 12**±4.0	**21.2S**±.23	**170.1E**±.27	**96**±30	**4.0b**	**14**	**3-150**
EIDC	XII 27 21 41 01.8±.91	21.1S	170.2E	0	4.1b		¶97xii5354
NEIC	XII 27 21 41 12.6	21.24S	170.07E	97			
EIDC	Error ellipse is semi−major=35.3km semi−minor=26.8km azimuth=133						
NEIC	Poor solution.						
ISC	**XII 29 00 41 59**±3.7	**23.4S**±.65	**171.0E**±.46	**33**	**3.6b**	**10**	**4-149**
EIDC	XII 29 00 41 54.3±2.14	23.1S	171.3E	0	3.7b		¶97xii5520
ISC	Poorly determined						
EIDC	Error ellipse is semi−major=100.1km semi−minor=45.1km azimuth=162						

SEISMIC REGION 15.
BISMARCK AND SOLOMON ISLANDS.

(190) New Ireland region.

EIDC	**VII 03 13 34 00.8**	**5.4S**	**153.6E**	**0**	**3.3b**		**2-82**
							¶97vii0416
ISC	**VII 06 06 10 19**±1.6	**5.5S**±.15	**153.2E**±.25	**33**	**3.4b**	**5**	**2-83**
EIDC	VII 06 06 10 14.8	5.7S	153.5E	0	3.5b		¶97vii0848
EIDC	**VII 07 05 34 56.9**	**3.7S**	**151.6E**	**0**	**3.6b**		**1-82**
							¶97vii0997
ISC	**VII 08 01 10 58**±1.1	**4.37S**±.043	**153.68E**±.057	**246**±11	**4.7b**	**78**	**2-151**
NEIC	VII 08 01 10 57.1	4.36S	153.67E	242	5.0b		¶97vii1113
HRVD	VII 08 01 10 57.4±1.2	4.39S±.12	153.76E±.09	209±3.2			
BJI	VII 08 01 10 57.7	4.35S	153.92E	259	4.9b		
EIDC	VII 08 01 10 58.2	4.3S	153.8E	241	4.1b		
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c26; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.09±.56; $M_{\theta\theta}$3.82±.82; $M_{\phi\phi}$−0.73±1.12; $M_{r\theta}$5.73±.47; $M_{r\phi}$3.36±.50; $M_{\theta\phi}$−3.15±.82. Principal Axes: T 7.24,Plg26°,Azm11°; N 1.58, Plg30°,Azm264°; P −8.82,Plg48°,Azm134°. Best double couple: $M_0$8.0×10^{16}Nm, NP1: ϕ_S147°,δ33°,λ−24°. NP2:ϕ_S257°,δ77°,λ−121°.						
ISC	**VII 12 16 13 26**±2.9	**5.22S**±.089	**153.0E**±.26	**50**±21	**4.1b**,3.5s	**17**	**1-125**
EIDC	VII 12 16 13 21.4	5.2S	153.0E	0	4.0b,3.5s		¶97vii1835
NEIC	VII 12 16 13 24.5	5.19S	152.96E	33	4.5b		
NEIC	Less reliable solution.						
ISC	**VII 17 10 22 00**±2.5	**4.65S**±.092	**153.7E**±.22	**105**±18	**4.2b**	**17**	**2-82**
EIDC	VII 17 10 21 48.0	4.8S	154.1E	0	4.2b,4.1L		¶97vii2582
NEIC	VII 17 10 21 59.6	4.64S	153.69E	100	4.5b		
BJI	VII 17 10 22 00.6	4.78S	153.61E	112	4.6b		
NEIC	Less reliable solution.						
ISC	**VII 18 11 17 46**±2.6	**4.6S**±.10	**153.8E**±.22	**101**±20	**4.1b**	**14**	**2-82**
EIDC	VII 18 11 17 34.5	4.7S	154.1E	0	4.1b		¶97vii2729
NEIC	VII 18 11 17 38.9	4.59S	153.87E	33	4.5b		
NEIC	Less reliable solution.						
ISC	**VII 18 17 43 44**±5.5	**5.9S**±.17	**153.5E**±.44	**73**±39	**3.6b**	**7**	**2-73**
EIDC	VII 18 17 43 36.1	5.9S	153.7E	0	3.8b		¶97vii2772
ISC	**VII 19 17 56 00**±4.3	**4.7S**±.13	**153.8E**±.30	**126**±35	**4.1b**	**16**	**8-150**
EIDC	VII 19 17 55 46.5	4.6S	154.0E	0	4.1b		¶97vii2928
NEIC	VII 19 17 55 49.9	4.65S	153.91E	33	4.9b		
BJI	VII 19 17 55 53.4	4.46S	153.34E	33	4.8b		
NEIC	Less reliable solution.						
ISC	**VII 21 00 24 55**±2.5	**4.7S**±.11	**153.8E**±.21	**106**±18	**4.3b**	**17**	**2-150**
EIDC	VII 21 00 24 42.8	4.6S	154.0E	0	4.2b		¶97vii3165
NEIC	VII 21 00 24 46.8	4.57S	153.81E	33	4.6b		
NEIC	Less reliable solution.						
EIDC	**VII 24 03 35 01.0**	**2.4S**	**149.3E**	**0**	**3.5b**		**3-81**
							¶97vii3604
EIDC	**VII 24 09 04 36.1**	**5.1S**	**153.2E**	**0**	**3.2b**		**24-82**
							¶97vii3649
ISC	**VII 26 03 34 21**±1.6	**4.4S**±.14	**153.1E**±.18	**33**	**3.4b**	**6**	**1-82**
EIDC	VII 26 03 34 15.1	5.2S	154.2E	0	3.5b		¶97vii3907
NEIC	VII 26 03 34 20.9	4.42S	153.11E	33	3.7b		
NEIC	Less reliable solution.						
ISC	**VII 29 02 40 01**±1.5	**2.5S**±.36	**150.0E**±.57	**33**	**3.4b**	**6**	**23-155**
EIDC	VII 29 02 39 57.4	2.5S	150.2E	0	3.6b		¶97vii4369
ISC	**VII 31 12 25 57**±1.1	**4.79S**±.066	**153.41E**±.081	**82**±10	**4.2b**	**35**	**1-151**
EIDC	VII 31 12 25 40.0	5.1S	154.9E	0	4.0b,4.6L		¶97vii4730
BJI	VII 31 12 25 57.3	4.70S	153.40E	97	4.8b		
NEIC	VII 31 12 25 57.3	4.74S	153.36E	97	4.2b		
NEIC	Less reliable solution.						
ISC	**VII 31 21 09 26**±1.3	**5.81S**±.048	**153.39E**±.082	**45**±11	**4.8b,4.2s**	**67**	**2-158**
EIDC	VII 31 21 09 21.0	5.8S	153.4E	0	4.6b,4.0s		¶97vii4790
NEIC	VII 31 21 09 26.1	5.79S	153.35E	48	4.6b		
BJI	VII 31 21 09 27.0	5.42S	153.38E	38	5.2b		
ISC	**VIII 01 05 41 27.3**±.49	**5.82S**±.056	**153.5E**±.10	**33**	**4.5b**,4.6s	**42**	**2-150**
BJI	VIII 01 05 41 26.7	5.67S	153.78E	35	4.8b		¶97viii0031
NEIC	VIII 01 05 41 26.9	5.78S	153.52E	33	4.5b		
EIDC	VIII 01 05 41 28.9	5.9S	153.7E	36	4.1b		
NEIC	Less reliable solution.						

ISC	**VIII 03 13 36 23**±1.4	**4.9S**±.23	**153.7E**±.19	**33**	**3.7b**	**9**	**7-82**
EIDC	VIII 03 13 36 21.8	3.6S	152.0E	0	3.8b,3.1s		¶97viii0368
NEIC	VIII 03 13 36 25.5	3.61S	151.90E	33	4.0b		
NEIC	Poor solution.						
ISC	**VIII 08 02 08 47**±6.5	**4.7S**±.20	**153.9E**±.51	**38**±36	**4.2b**,3.5s	**11**	**2-59**
EIDC	VIII 08 02 08 43.3	4.8S	154.0E	0	4.1b,3.5s		¶97viii1041
EIDC	**VIII 09 14 13 56.8**	**5.5S**	**154.0E**	**0**	**3.5b**		**24-29**
							¶97viii1264
ISC	**VIII 12 08 16 32**±1.6	**4.0S**±.29	**152.4E**±.47	**17**	**3.3b**	**6**	**7-82**
EIDC	VIII 12 08 16 32.8	4.1S	152.8E	17	3.4b,3.8L		¶97viii1700
ISC	**VIII 16 09 36 53**±1.2	**5.8S**±.11	**153.6E**±.25	**33**	**3.9b**	**13**	**16-150**
NEIC	VIII 16 09 36 52.9	5.83S	153.61E	33	3.9b		¶97viii2344
EIDC	VIII 16 09 37 00.8	6.0S	153.6E	94	3.6b,3.8L		
NEIC	Poor solution.						
ISC	**VIII 17 03 41 46**±2.0	**4.41S**±.085	**153.5E**±.18	**118**±15	**4.3b**	**24**	**1-158**
NEIC	VIII 17 03 41 49.3	4.47S	153.43E	150	4.5b		¶97viii2480
EIDC	VIII 17 03 41 51.6	4.5S	153.5E	161	3.9b,3.7s		
NEIC	Less reliable solution.						
ISC	**VIII 17 22 37 05**±2.6	**4.4S**±.14	**153.6E**±.25	**111**±20	**4.0b**	**11**	**1-81**
EIDC	VIII 17 22 36 52.9	4.4S	153.8E	0	4.0b		¶97viii2594
NEIC	VIII 17 22 36 56.4	4.30S	153.70E	33	4.2b		
NEIC	Poor solution.						
EIDC	**VIII 19 03 49 54.5**	**5.1S**	**153.7E**	**0**	**3.9b**		**2-29**
							¶97viii2760
ISC	**VIII 20 10 19 14**±3.2	**4.2S**±.34	**153.5E**±.28	**127**±19	**4.1b**	**11**	**1-73**
NEIC	VIII 20 10 19 15.3	4.26S	153.45E	129	4.2b		¶97viii2941
EIDC	VIII 20 10 19 21.7	5.1S	153.6E	128	3.8b		
NEIC	Poor solution.						
EIDC	**VIII 23 01 06 37.1**	**5.4S**	**153.8E**	**0**	**3.8b**		**20-29**
							¶97viii3314
ISC	**VIII 23 22 15 57**±1.3	**5.45S**±.064	**153.65E**±.074	**40**±12	**4.4b,3.9s**	**32**	**2-150**
NEIC	VIII 23 22 15 55.5	5.42S	153.62E	33	4.6b		¶97viii3457
EIDC	VIII 23 22 15 56.8	5.5S	153.8E	35	4.0s,4.1b		
BJI	VIII 23 22 16 00.1	4.49S	153.88E	40	5.0b		
ISC	**VIII 26 03 42 53**±3.7	**4.5S**±.14	**154.0E**±.32	**93**±26	**3.8b**	**9**	**2-81**
NEIC	VIII 26 03 42 53.7	4.62S	153.92E	100	3.9b		¶97viii3779
EIDC	VIII 26 03 42 57.6	4.7S	154.0E	126	3.6b		
NEIC	Poor solution.						
ISC	**VIII 28 04 22 52**±7.5	**4.7S**±.80	**153.5E**±.32	**150**	**3.8b**	**8**	**8-29**
EIDC	VIII 28 04 22 52.1	4.5S	153.5E	141	3.6b		¶97viii4082
ISC	**IX 02 04 51 22**±2.3	**4.8S**±.21	**153.1E**±.45	**33**	**4.0b**	**9**	**1-72**
EIDC	IX 02 04 51 18.7	4.8S	153.1E	0	4.1b		¶97ix0223
NEIC	IX 02 04 51 21.6	4.82S	153.08E	33	4.1b		
NEIC	Poor solution.						
ISC	**IX 03 04 07 34**±1.2	**3.8S**±.15	**151.5E**±.19	**150**	**4.0b**	**7**	**1-56**
EIDC	IX 03 04 07 14.6	4.8S	153.3E	0	4.0b		¶97ix0376
ISC	**IX 04 20 53 01.7**±.43	**3.53S**±.029	**151.42E**±.033	**400**±4.8	**5.0b**	**362**	**1-164**
NEIC	IX 04 20 52 58.3	3.48S	151.39E	366	5.1b		¶97ix0633
BJI	IX 04 20 52 58.8	3.17S	151.77E	362	5.1b		
MOS	IX 04 20 53 01.5	3.5S	151.4E	392	5.5b		
EIDC	IX 04 20 53 03.8	3.6S	151.5E	409	4.6b		
HRVD	IX 04 20 53 05.9±.2	3.34S±.02	151.63E±.03	386±.9			
NEIC	Mw5.7(HRV).						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s48,c81; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}0.78±.07; $M_{\theta\theta}$−1.04±.09; $M_{\phi\phi}$0.27±.10; $M_{r\theta}$3.03±.07; $M_{r\phi}$−1.03±.08; $M_{\theta\phi}$−2.79±.10. Principal Axes: T 4.59,Plg38°,Azm42°; N −0.53, Plg42°,Azm267°; P −4.06,Plg25°,Azm152°. Best double couple: $M_0$4.3×10^{17}Nm, NP1: ϕ_S193°,δ43°,λ12°. NP2:ϕ_S94°,δ82°,λ133°.

ISC	**IX 07 20 49 20**±1.4	**5.2S**±.11	**153.1E**±.20	**33**	**3.7b**,3.5s	**9**	**1-82**
EIDC	IX 07 20 49 16.9	5.1S	153.0E	0	3.8b,3.5s		¶97ix1124
NEIC	IX 07 20 49 20.6	5.03S	152.87E	33	3.7b		
NEIC	Poor solution.						
EIDC	**IX 08 19 44 36.0**	**4.9S**	**153.2E**	**0**	**3.6b**		**¶97ix1269**
ISC	**IX 10 03 33 12**±2.2	**3.11S**±.069	**153.2E**±.14	**59**±18	**4.5b**,3.6s	**32**	**2-123**
EIDC	IX 10 03 33 16.0	3.2S	153.4E	83	4.0b,3.9s		¶97ix1471
BJI	IX 10 03 33 16.7	3.20S	153.10E	100	4.6b		
NEIC	IX 10 03 33 16.7	3.16S	153.14E	100	4.4b		
NEIC	Less reliable solution.						
ISC	**IX 12 11 54 44**±3.1	**4.4S**±.23	**153.7E**±.34	**100**	**3.7b**	**8**	**2-59**
EIDC	IX 12 11 54 35.7	4.5S	153.4E	0	3.9b		¶97ix1810
ISC	**IX 12 12 31 21**±2.0	**4.4S**±.13	**153.5E**±.19	**116**±15	**4.3b**	**22**	**1-124**
NEIC	IX 12 12 31 19.8	4.44S	153.64E	100	4.5b		¶97ix1812
EIDC	IX 12 12 31 22.9	4.4S	153.7E	112	4.0b,3.8s		
NEIC	Less reliable solution.						
ISC	**IX 12 13 51 26**±1.8	**4.46S**±.068	**153.5E**±.15	**119**±13	**4.4b**	**41**	**1-158**
NEIC	IX 12 13 51 16.1	4.29S	153.53E	33	4.6b		¶97ix1822
EIDC	IX 12 13 51 17.6	4.4S	153.9E	37	4.3b,4.0L		
BJI	IX 12 13 51 18.5	3.49S	153.07E	5	4.9b		
NEIC	Less reliable solution.						
ISC	**IX 13 19 43 28**±8.1	**5.1S**±.44	**153.8E**±.86	**33**	**3.5b**	**5**	**2-29**
EIDC	IX 13 19 43 19.5	4.5S	154.0E	0	3.7b		¶97ix2029
EIDC	LO CONF Location						
ISC	**IX 14 13 02 48**±3.0	**4.3S**±.20	**153.5E**±.35	**117**±25	**3.9b**	**10**	**1-81**
EIDC	IX 14 13 02 35.7	4.2S	153.4E	0	4.0b		¶97ix2126
NEIC	IX 14 13 02 46.4	4.32S	153.58E	100	4.0b		
NEIC	Poor solution.						
ISC	**IX 14 21 55 32**±1.2	**4.80S**±.049	**153.21E**±.072	**52**±11	**4.7b,4.0s**	**75**	**1-158**
EIDC	IX 14 21 55 25.6	4.8S	153.5E	0	4.5b,3.9s		¶97ix2170
BJI	IX 14 21 55 32.8	4.28S	153.20E	38	5.1b		
NEIC	IX 14 21 55 32.9	4.79S	153.12E	55	4.7b		
ISC	**IX 15 23 36 24**±2.1	**4.4S**±.12	**153.5E**±.18	**116**±16	**4.3b**	**18**	**1-86**
EIDC	IX 15 23 36 23.5	4.5S	153.7E	98	4.0b		¶97ix2296
NEIC	IX 15 23 36 25.4	4.47S	153.51E	128	4.4b		
NEIC	Less reliable solution.						
ISC	**IX 16 02 47 34**±1.5	**3.9S**±.35	**150.6E**±.53	**33**	**4.0b**	**6**	**5-82**
EIDC	IX 16 02 47 31.0	3.9S	150.8E	0	4.0b		¶97ix2319
ISC	**IX 17 12 47 51**±1.4	**5.2S**±.14	**153.8E**±.20	**33**	**4.0b**	**11**	**2-86**
NEIC	IX 17 12 48 01.8	5.08S	153.50E	122	4.1b		¶97ix2509
EIDC	IX 17 12 48 02.9	5.2S	153.6E	119	3.7b		
NEIC	Poor solution.						
ISC	**IX 17 16 58 43**±3.4	**4.3S**±.19	**153.7E**±.30	**112**±20	**3.8b**	**10**	**1-73**
NEIC	IX 17 16 58 48.7	4.48S	153.42E	148	4.0b		¶97ix2534
EIDC	IX 17 16 58 51.4	4.6S	153.4E	150	3.6b		
NEIC	Poor solution.						
EIDC	**IX 19 01 50 00.3**	**5.1S**	**153.4E**	**0**	**3.8b**		**¶97ix2734**
ISC	**IX 20 12 31 56**±1.6	**4.51S**±.041	**153.29E**±.056	**77**±15	**4.9b**	**155**	**3-158**
EIDC	IX 20 12 31 53.2	4.5S	153.5E	41	4.5b,4.5L		¶97ix2943
BJI	IX 20 12 31 54.4	4.07S	153.61E	55	5.3b		
NEIC	IX 20 12 31 54.8	4.49S	153.26E	65	5.0b		
MOS	IX 20 12 31 56.2	4.4S	153.3E	71	5.4b		
HRVD	IX 20 12 31 57.6±.6	4.67S±.06	153.19E±.07	59±7.7			
NEIC	Mw5.0(HRV).						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c26; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.19±.28; $M_{\theta\theta}$−2.84±.47; $M_{\phi\phi}$−0.35±.65; $M_{r\theta}$1.56±.50; $M_{r\phi}$2.15±.47; $M_{\theta\phi}$1.34±.31. Principal Axes: T 4.73,Plg60°,Azm301°; N −1.24, Plg29°,Azm105°; P −3.49,Plg7°,Azm199°. Best double couple: $M_0$4.1×10^{16}Nm, NP1: ϕ_S318°,δ46°,λ133°. NP2:ϕ_S85°,δ58°,λ55°.

EIDC	**IX 20 20 16 17.8**	**5.5S**	**153.1E**	**0**	**3.7b**		**¶97ix2999**
ISC	**IX 21 05 36 10**±4.4	**4.5S**±.16	**153.5E**±.25	**131**±35	**3.9b**	**13**	**8-86**
EIDC	IX 21 05 35 55.1	4.4S	153.8E	0	4.0b		¶97ix3047
NEIC	IX 21 05 36 06.3	4.44S	153.49E	100	4.2b		
NEIC	Less reliable solution.						
ISC	**IX 21 13 26 09**±3.1	**4.49S**±.083	**153.5E**±.17	**133**±27	**4.3b**	**32**	**3-158**
NEIC	IX 21 13 26 07.8	4.48S	153.55E	121	4.6b		¶97ix3106
EIDC	IX 21 13 26 09.3	4.5S	153.8E	122	4.0b		
EIDC	**IX 27 00 42 49.6**	**4.8S**	**153.6E**	**0**	**3.6b**		**¶97ix4201**
ISC	**IX 28 07 02 29**±4.5	**3.8S**±.20	**151.8E**±.72	**33**	**3.7b**	**6**	**21-57**
EIDC	IX 28 07 02 22.9	3.9S	152.4E	0	3.7b		¶97ix4569
ISC	**IX 28 14 56 11**±2.9	**4.5S**±.17	**153.5E**±.25	**108**±18	**3.9b**	**12**	**1-86**
EIDC	IX 28 14 56 02.2	4.5S	153.7E	20	4.0b,3.6L		¶97ix4671
NEIC	IX 28 14 56 11.0	4.49S	153.50E	109	4.1b		
NEIC	Poor solution.						
ISC	**X 01 11 32 58**±1.4	**3.3S**±.24	**150.4E**±.32	**0**	**3.5b**	**5**	**1-82**
EIDC	X 01 11 33 00.3	3.4S	150.2E	0	3.4b,3.5s		¶97x0074
ISC	**X 01 18 52 02**±3.6	**4.9S**±.23	**154.0E**±.39	**33**	**3.8b**	**7**	**2-59**
NEIC	X 01 18 52 02.0	4.86S	153.96E	33	4.2b		¶97x0139
EIDC	X 01 18 52 02.8	4.8S	153.3E	0	3.8b		
NEIC	Poor solution.						
ISC	**X 05 04 21 22**±4.2	**1.2S**±.35	**150.8E**±.41	**33**	**3.8b**	**9**	**7-32**
NEIC	X 05 04 21 25.5	1.43S	150.48E	33	3.9b		¶97x0795
EIDC	X 05 04 21 54.6	4.9S	149.7E	0	3.6b		
NEIC	Poor solution.						
ISC	**X 07 20 51 20**±1.6	**3.2S**±.16	**151.4E**±.20	**33**	**3.5b,**3.2s	**7**	**1-81**
NEIC	X 07 20 51 20.1	3.22S	151.44E	33			¶97x1299
EIDC	X 07 20 51 24.1	3.9S	151.0E	0	3.6b,3.1s		
NEIC	Poor solution.						
ISC	**X 20 07 15 32**±1.8	**4.73S**±.076	**153.2E**±.14	**66**±15	**4.1b**	**32**	**1-151**
EIDC	X 20 07 15 24.0	4.7S	153.5E	0	4.2b,4.1L		¶97x3461
BJI	X 20 07 15 31.4	4.70S	153.20E	63	4.5b		
NEIC	X 20 07 15 31.4	4.73S	153.22E	63	4.3b		
NEIC	Less reliable solution.						
ISC	**XI 05 16 01 10**±2.1	**5.5S**±.30	**153.3E**±.51	**33**	**3.6b**	**6**	**22-83**
EIDC	XI 05 16 01 05.8	5.6S	153.5E	0	3.6b		¶97xi0827
NEIC	XI 05 16 01 09.8	5.49S	153.28E	33	3.9b		
NEIC	Poor solution.						
ISC	**XI 07 15 23 17**±1.7	**5.7S**±.18	**153.6E**±.17	**33**	3.7b	**5**	**2-24**
NEIC	XI 07 15 23 16.4	5.65S	153.62E	33	3.8b		¶97xi1141
NEIC	Poor solution.						
ISC	**XI 14 09 24 14**±1.5	**5.1S**±.25	**153.6E**±.33	**33**	**3.8b**	**8**	**8-82**
EIDC	XI 14 09 24 10.7	5.2S	153.8E	0	3.9b,4.1L		¶97xi2265
NEIC	XI 14 09 24 14.2	5.19S	153.68E	33	4.2b		
NEIC	Poor solution.						
ISC	**XI 30 10 40 14**±2.1	**5.1S**±.17	**153.1E**±.18	**61**±24	**4.4b**	**12**	**1-158**
BJI	XI 30 10 40 10.2	5.40S	153.00E	33	4.8b		¶97xi5403
NEIC	XI 30 10 40 13.2	5.36S	153.01E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**XII 06 13 24 27**±5.4	**3.5S**±.46	**153.9E**±.50	**214**±17	**4.2b**	**10**	**2-41**
EIDC	XII 06 13 23 48.9±7.99	1.3S	155.6E	39±11.8	4.0b,4.5L		¶97xii1425
EIDC	Error ellipse is semi−major=124.5km semi−minor=92.1km azimuth=38LO CONF Location							
ISC	**XII 17 17 14 23**±2.4	**1.30S**±.072	**149.8E**±.13	**94**±22	**4.3b**	**41**	**6-154**
EIDC	XII 17 17 14 13.0±1.07	1.3S	150.0E	0	4.3b,3.7s		¶97xii3637
BJI	XII 17 17 14 22.5	1.01S	150.24E	100	4.8b		
NEIC	XII 17 17 14 23.9	1.34S	149.77E	100	4.1b		
EIDC	Error ellipse is semi−major=43.2km semi−minor=15.0km azimuth=100							
NEIC	Less reliable solution.							
ISC	**XII 24 03 27 20**±1.3	**1.5S**±.15	**149.6E**±.38	**33**	**3.7b**	**7**	**19-80**
EIDC	XII 24 03 27 16.4±1.49	1.5S	149.6E	0	3.9b,3.6L		¶97xii4695
NEIC	XII 24 03 27 19.7	1.50S	149.52E	33	3.6b		
EIDC	Error ellipse is semi−major=72.6km semi−minor=20.1km azimuth=108							
NEIC	Poor solution.							
ISC	**XII 24 08 48 58**±7.4	**3.6S**±.87	**152.1E**±.35	**33**	**3.9b**	**9**	**6-125**
EIDC	XII 24 08 48 53.4±1.56	3.5S	152.4E	0	4.1b		¶97xii4727
EIDC	Error ellipse is semi−major=79.1km semi−minor=28.0km azimuth=121							
EIDC	**XII 27 20 55 36.2**±3.40	**5.9S**	**153.4E**	**0**	**3.4b**		**23-83**
							¶97xii5347
EIDC	Error ellipse is semi−major=289.0km semi−minor=28.6km azimuth=129							

(191) North of Solomon Islands.

ISC	**VIII 04 07 42 39.9**±.86	**3.0S**±.16	**155.3E**±.20	**33**	**3.8b**	**10**	**23-101**
EIDC	VIII 04 07 42 36.4	3.0S	155.4E	0	4.0b		¶97viii0473
NEIC	VIII 04 07 42 39.7	2.99S	155.34E	33	3.6b		
NEIC	Less reliable solution.						
EIDC	**VIII 06 15 38 16.9**	**3.4S**	**155.1E**	**0**	**3.4b**		**26-80**
							¶97viii0817
EIDC	**VIII 25 20 48 18.5**	**3.7S**	**154.4E**	**0**	**3.9b**		**2-31**
							¶97viii3740
ISC	**IX 21 07 17 16**±1.7	**3.8S**±.43	**154.2E**±.64	**33**	**3.3b**	**4**	**25-81**
EIDC	IX 21 07 17 12.9	3.7S	154.2E	0	3.6b		¶97ix3055
ISC	Poorly determined							
ISC	**IX 21 16 38 27**±6.1	**2.8S**±.85	**154.5E**±.47	**33**	**3.8b**	**5**	**10-31**
EIDC	IX 21 16 38 45.0	4.8S	153.2E	0	3.9b		¶97ix3130
ISC	**X 25 05 37 55**±5.1	**3.5S**±.58	**154.8E**±.39	**33**	**3.8b**	**6**	**10-31**
EIDC	X 25 05 37 49.6	3.2S	155.0E	0	3.8b,4.7L		¶97x4282
EIDC	**X 29 02 05 57.0**	**4.0S**	**154.2E**	**0**	**3.6b**		**¶97x4841**
EIDC	**XI 23 18 53 19.4**	**3.6S**	**154.5E**	**0**	**4.0b**		**¶97xi4176**

(192) New Britain region.

ISC	**VII 01 00 08 03**±1.2	**5.9S**±.20	**148.6E**±.19	**104**±12	**4.0b**	**11**	**1-85**
NEIC	VII 01 00 08 01.5	5.91S	148.72E	100	4.2b		¶97vii0001
EIDC	VII 01 00 08 03.0	5.9S	148.5E	92	3.7b		
NEIC	Poor solution.						
EIDC	**VII 01 03 43 08.6**	**5.5S**	**151.4E**	**0**	3.5b		**22-124**
							¶97vii0025
EIDC	**VII 01 08 09 12.2**	**6.5S**	**152.7E**	**0**	**3.3b**		**22-84**
							¶97vii0045
ISC	**VII 01 08 09 24**±1.6	**6.5S**±.38	**152.5E**±.53	**33**	**4.1b**	**6**	**22-97**
EIDC	VII 01 08 09 19.0	6.6S	152.8E	0	4.1b		¶97vii0046
EIDC	**VII 02 18 05 15.9**	**6.8S**	**153.0E**	**0**	**3.6b**,4.1L		**6-97**
							¶97vii0276

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**05 06 09 33**±2.4	**5.97S**±.062	**151.0E**±.11	**47**±22	**4.5b,4.3s**	**52**	**3-156**
BJI	VII	05 06 09 30.8	5.91S	151.07E	34	4.6b		¶97vii0688
NEIC	VII	05 06 09 31.1	5.96S	151.01E	33	4.8b,4.5s		
EIDC	VII	05 06 09 33.6	5.9S	150.9E	40	4.2b,4.3s		
ISC	**VII**	**05 09 04 37**±1.4	**5.9S**±.15	**150.9E**±.21	**55**±17	**3.8b,**3.4s	**13**	**2-124**
NEIC	VII	05 09 04 33.0	5.75S	150.94E	33	3.9b		¶97vii0707
EIDC	VII	05 09 04 36.1	5.7S	150.8E	43	3.8b,3.8L		
NEIC		Less reliable solution.						
ISC	**VII**	**05 14 09 41**±1.4	**5.7S**±.18	**150.9E**±.26	**74**±17	**3.7b**	**10**	**2-124**
NEIC	VII	05 14 09 36.5	5.73S	151.12E	33	3.8b		¶97vii0738
EIDC	VII	05 14 09 36.5	5.8S	151.4E	28	3.8b,3.6L		
NEIC		Poor solution.						
ISC	**VII**	**06 01 28 19**±1.6	**5.9S**±.18	**151.3E**±.22	**59**±19	**3.7b**	**10**	**2-84**
NEIC	VII	06 01 28 15.9	5.78S	151.36E	33	4.0b		¶97vii0817
EIDC	VII	06 01 28 21.1	5.5S	150.8E	61	3.5b,4.1L		
NEIC		Poor solution.						
EIDC	**VII**	**06 11 02 50.7**	**6.5S**	**152.9E**	**0**	**3.4b**		**22-84**
								¶97vii0874
EIDC	**VII**	**06 17 44 35.6**	**6.6S**	**150.1E**	**0**	**3.5b**		**20-85**
								¶97vii0913
ISC	**VII**	**07 04 04 19**±1.1	**6.0S**±.31	**151.0E**±.40	**33**	**3.6b**	**6**	**2-27**
NEIC	VII	07 04 04 11.5	5.03S	151.06E	33	3.8b		¶97vii0986
EIDC	VII	07 04 04 20.9	5.4S	150.7E	66	3.5b,3.8L		
NEIC		Poor solution.						
ISC	**VII**	**07 04 26 37**±1.2	**4.8S**±.11	**152.8E**±.16	**11**	**3.8b**	**7**	**1-95**
EIDC	VII	07 04 26 38.5	4.4S	152.3E	11	3.8b,3.7s		¶97vii0989
ISC	**VII**	**08 02 10 43**±2.3	**7.5S**±.75	**150.0E**±.80	**99**	3.4b	**4**	**3-86**
EIDC	VII	08 02 10 43.7	7.4S	150.0E	99	3.3b		¶97vii1121
ISC		Poorly determined						
EIDC	**VII**	**08 19 17 56.0**	**5.0S**	**152.7E**	**0**	**3.6b**		**1-73**
								¶97vii1222
ISC	**VII**	**09 07 35 05**±1.7	**4.5S**±.37	**150.1E**±.54	**33**	**4.0b**	**9**	**2-83**
EIDC	VII	09 07 35 14.4	5.5S	150.8E	111	3.4b		¶97vii1296
ISC	**VII**	**10 17 57 15.7**±.64	**6.08S**±.034	**148.64E**±.049	**79**±6.0	**5.0b**	**150**	**1-154**
BJI	VII	10 17 57 12.5	5.96S	148.55E	50	5.1b,5.1s		¶97vii1541
NEIC	VII	10 17 57 13.1	6.05S	148.72E	55	5.1b,4.5s		
EIDC	VII	10 17 57 14.8	6.0S	148.7E	57	4.8b,4.2s		
HRVD	VII	10 17 57 22.1±.5	6.08S±.05	148.72E±.05	50±3.3			
NEIC		Mw5.1(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c53; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.97±.33; $M_{\theta\theta}$−5.78±.35; $M_{\phi\phi}$0.81±.55; $M_{r\theta}$1.73±.47; $M_{r\phi}$0.04±.39; $M_{\theta\phi}$−0.54±.33. Principal Axes: T 5.24,Plg81°,Azm0°; N 0.85, Plg1°,Azm266°; P −6.09,Plg9°,Azm176°. Best double couple: $M_0$5.7×10^{16}Nm, NP1:ϕ_S265°, δ36°,λ89°. NP2:ϕ_S86°,δ54°,λ91°.						
ISC	**VII**	**13 19 51 37**±1.3	**6.3S**±.17	**148.5E**±.19	**33**	**3.5b**	**9**	**1-85**
EIDC	VII	13 19 51 31.7	6.7S	149.4E	0	3.4b,3.9L		¶97vii2018
NEIC	VII	13 19 51 36.3	6.34S	148.59E	33	3.5b		
NEIC		Less reliable solution.						
ISC	**VII**	**15 00 01 03**±2.4	**5.7S**±.10	**149.2E**±.22	**165**±19	**4.4b**	**15**	**3-153**
NEIC	VII	15 00 01 02.0	5.70S	149.24E	150	4.3b		¶97vii2223
EIDC	VII	15 00 01 06.9	5.8S	149.3E	185	3.7b		
NEIC		Less reliable solution.						
EIDC	**VII**	**15 01 32 49.8**	**5.4S**	**152.8E**	**0**	**3.9b**		**1-151**
								¶97vii2230
ISC	**VII**	**15 11 41 11**±1.6	**6.5S**±.36	**152.6E**±.50	**33**	**3.6b**	**5**	**19-84**
EIDC	VII	15 11 41 06.6	6.6S	152.9E	0	3.7b		¶97vii2300
ISC	**VII**	**15 12 14 35**±1.5	**5.36S**±.061	**152.7E**±.12	**60**±14	**4.3b**	**27**	**1-151**
BJI	VII	15 12 14 30.0	5.28S	152.94E	27	4.5b		¶97vii2301
NEIC	VII	15 12 14 32.5	5.36S	152.66E	33	4.5b		
EIDC	VII	15 12 14 34.1	5.4S	152.7E	33	3.9b,3.8s		
NEIC		Less reliable solution.						
EIDC	**VII**	**15 13 12 48.8**	**6.9S**	**153.6E**	**0**	**3.7b**		**3-84**
								¶97vii2307
ISC	**VII**	**17 00 02 10**±8.1	**6.3S**±.14	**151.4E**±.27	**11**±54	**4.0b**	**11**	**2-151**
EIDC	VII	17 00 02 09.4	6.3S	151.5E	0	3.9b,4.1L		¶97vii2522
NEIC	VII	17 00 02 12.9	6.32S	151.37E	33	4.3b		
NEIC		Poor solution.						
ISC	**VII**	**19 03 41 59**±1.5	**5.2S**±.12	**152.8E**±.25	**33**	**4.0b**	**6**	**3-83**
EIDC	VII	19 03 41 56.3	5.0S	152.7E	0	3.9b		¶97vii2826
EIDC	**VII**	**19 12 44 48.1**	**6.0S**	**152.7E**	**0**	**3.4b**		**2-83**
								¶97vii2877
EIDC	**VII**	**22 21 43 37.1**	**7.5S**	**153.0E**	**0**	**3.7b**		**3-26**
								¶97vii3436
ISC	**VII**	**23 13 00 01**±1.7	**5.46S**±.088	**152.1E**±.14	**57**±14	**4.4b,3.7s**	**30**	**1-100**
EIDC	VII	23 12 59 54.3	5.4S	152.1E	0	4.3b,3.6s		¶97vii3530
NEIC	VII	23 12 59 57.9	5.39S	152.06E	33	4.7b		
NEIC		Less reliable solution.						
ISC	**VII**	**23 14 38 51**±3.7	**4.7S**±.14	**152.4E**±.29	**26**±24	**3.6b**	**8**	**1-82**
EIDC	VII	23 14 38 48.2	4.6S	152.4E	0	3.8b		¶97vii3544
NEIC	VII	23 14 38 51.7	4.63S	152.39E	33	3.8b		
NEIC		Less reliable solution.						
ISC	**VII**	**24 23 27 37**±5.7	**5.7S**±.54	**149.4E**±.52	**33**	3.5b	**5**	**4-27**
EIDC	VII	24 23 27 37.1	6.1S	149.7E	0	3.6b,4.3L		¶97vii3734
ISC	**VII**	**26 00 12 49**±1.6	**5.2S**±.29	**151.5E**±.36	**73**±22	**4.1b**	**12**	**1-83**
EIDC	VII	26 00 12 59.8	5.0S	150.9E	162	3.6b,3.7L		¶97vii3891
EIDC	**VII**	**26 10 44 31.7**	**6.9S**	**152.3E**	**0**	**3.2b**		**3-84**
								¶97vii3955
EIDC	**VII**	**29 02 51 34.6**	**8.0S**	**152.7E**	**0**	**3.1b**		**21-85**
								¶97vii4371
ISC	**VII**	**29 07 09 18**±3.4	**5.4S**±.18	**153.0E**±.38	**79**±28	**3.7b**	**8**	**1-151**
EIDC	VII	29 07 09 09.5	5.0S	152.8E	0	3.8b,4.1L		¶97vii4398
NEIC	VII	29 07 09 13.3	5.20S	152.86E	33	4.3b		
NEIC		Poor solution.						
ISC	**VII**	**29 19 56 45**±1.3	**4.8S**±.16	**151.7E**±.30	**33**	**3.7b**	**13**	**1-138**
EIDC	VII	29 19 56 40.9	4.9S	152.0E	0	3.8b		¶97vii4475
NEIC	VII	29 19 56 44.4	4.88S	151.93E	33			
NEIC		Poor solution.						
ISC	**VII**	**31 04 16 52**±3.8	**5.4S**±.22	**150.1E**±.18	**89**±32	**3.8b**	**10**	**5-152**
NEIC	VII	31 04 16 53.3	5.40S	150.09E	100	4.0b		¶97vii4674
EIDC	VII	31 04 16 53.5	5.4S	150.1E	91	3.6b		
NEIC		Less reliable solution.						
ISC	**VII**	**31 22 59 40**±1.6	**4.0S**±.29	**152.8E**±.35	**33**	**4.0b**	**11**	**8-152**
EIDC	VII	31 22 59 36.2	3.9S	152.6E	0	4.0b		¶97vii4797
EIDC	**VIII**	**04 23 13 22.4**	**5.0S**	**150.4E**	**0**	**3.5b**		**19-56**
								¶97viii0572
ISC	**VIII**	**05 01 27 22**±2.0	**5.7S**±.16	**152.5E**±.36	**33**	**3.8b**	**5**	**2-83**
EIDC	VIII	05 01 27 18.1	5.8S	152.8E	0	3.8b		¶97viii0594
EIDC	**VIII**	**09 04 39 39.6**	**5.0S**	**152.8E**	**0**	**3.6b**		**23-29**
								¶97viii1205
ISC	**VIII**	**09 09 26 48**±1.9	**5.5S**±.17	**148.1E**±.28	**187**±12	**3.8b**	**11**	**2-85**
EIDC	VIII	09 09 26 25.4	5.8S	149.5E	0	3.8b		¶97viii1233
NEIC	VIII	09 09 26 39.4	5.26S	148.06E	100	3.8b		
NEIC		Poor solution.						
EIDC	**VIII**	**11 05 20 00.3**	**5.5S**	**148.2E**	**0**	3.6b,3.8L		**5-27**
								¶97viii1507
ISC	**VIII**	**12 04 24 53.5**±.91	**5.45S**±.039	**151.48E**±.064	**78**±8.5	**4.9b**	**105**	**1-157**
NEIC	VIII	12 04 24 48.2	5.40S	151.56E	33	5.1b		¶97viii1677
MOS	VIII	12 04 24 48.7	5.4S	151.6E	33	5.4b		
BJI	VIII	12 04 24 49.4	5.24S	151.63E	39	4.9b		
EIDC	VIII	12 04 24 51.0	5.4S	151.6E	47	4.6b,3.9s		
ISC	**VIII**	**12 18 54 46**±1.2	**4.41S**±.073	**152.65E**±.080	**40**±12	**4.4b,3.5s**	**35**	**1-151**
NEIC	VIII	12 18 54 44.7	4.35S	152.59E	33	4.4b		¶97viii1792
EIDC	VIII	12 18 54 51.9	4.5S	152.5E	80	3.8s,3.8b		
NEIC		Less reliable solution.						
EIDC	**VIII**	**15 14 27 30.7**	**6.3S**	**152.2E**	**0**	**3.4b**		**2-84**
								¶97viii2229
ISC	**VIII**	**19 01 03 21**±1.8	**5.8S**±.12	**148.6E**±.25	**111**±12	**4.4b**	**13**	**1-85**
EIDC	VIII	19 01 03 07.9	5.9S	148.8E	0	4.5b,5.0L		¶97viii2740
NEIC	VIII	19 01 03 20.8	5.81S	148.54E	112	4.5b		
NEIC		Poor solution.						
ISC	**VIII**	**19 03 12 00**±1.5	**5.9S**±.17	**152.2E**±.30	**33**	**4.2b**	**8**	**2-83**
EIDC	VIII	19 03 11 51.6	7.2S	154.0E	0	4.0b		¶97viii2752
NEIC	VIII	19 03 11 56.1	6.96S	153.75E	33	4.4b		
NEIC		Poor solution.						
ISC	**VIII**	**19 08 11 18**±1.2	**5.7S**±.18	**151.7E**±.30	**33**	**4.2b**	**10**	**2-72**
EIDC	VIII	19 08 11 18.6	6.6S	151.9E	0	4.2b		¶97viii2779
ISC	**VIII**	**20 09 32 37**±1.1	**5.8S**±.13	**149.5E**±.11	**46**±2.0*	**4.2b**	**17**	**3-153**
NEIC	VIII	20 09 32 35.3	5.77S	149.42E	33	4.3b		¶97viii2938
EIDC	VIII	20 09 32 37.8	5.7S	149.5E	43	3.9b,3.5L		
NEIC		Less reliable solution.						
ISC	**VIII**	**25 23 48 01**±1.1	**5.1S**±.11	**152.3E**±.19	**33**	**3.7b**	**6**	**1-28**
EIDC	VIII	25 23 48 12.0	6.9S	152.1E	0	3.7b		¶97viii3754
ISC	**VIII**	**27 11 43 20**±1.4	**4.30S**±.072	**152.8E**±.12	**66**±11	**4.3b**	**34**	**1-158**
NEIC	VIII	27 11 43 15.8	4.15S	152.72E	33	4.7b		¶97viii3983
EIDC	VIII	27 11 43 20.6	4.3S	153.0E	56	4.0b		
ISC	**VIII**	**27 13 42 56.5**±.75	**6.05S**±.029	**148.54E**±.037	**69**±7.1	**5.3b**	**297**	**1-164**
NEIC	VIII	27 13 42 52.7	6.02S	148.57E	33	5.7b,5.7s		¶97viii3990
MOS	VIII	27 13 42 53.0	6.0S	148.5E	33	6.0b,5.5s		
BJI	VIII	27 13 42 53.3	5.94S	148.59E	39	5.1b,5.5s		
EIDC	VIII	27 13 42 55.4	6.1S	148.7E	47	4.7b,5.4s		
HRVD	VIII	27 13 43 01.6±.1	6.38S±.01	148.85E±.01	40±.9			
NEIC		Mw5.9(HRV), Me5.5(GS).						
NEIC		Mw 5.8 (GS).						
NEIC		Radiated energy from the P−wave first−motion solution: 3.4±0.6×10^{12}Nm/9						
NEIC		Broadband fault plane solution: P waves. NP1:ϕ_S60°,δ45°,λ120°. NP2:ϕ_S201°,δ52°,λ63°. Principal axes: T Plg69°,Azm49°; P Plg4°,Azm309°. Depth from synthetics of broadband displacement seismograms.						
NEIC		Moment tensor solution: s29, scale 10^{17}Nm; M_{rr}6.14; $M_{\theta\theta}$−5.04; $M_{\phi\phi}$−1.08; $M_{r\theta}$1.47; $M_{r\phi}$−0.33; $M_{\theta\phi}$0.25. Depth 34km; Principal axes: T 6.34,Plg82°,Azm17°; N −1.09,Plg2°, Azm274°; P −5.25,Plg7°,Azm184°. Best double couple: $M_0$5.8×10^{17}Nm; NP1:ϕ_S272°,δ38°, λ87°. NP2:ϕ_S96°,δ52°,λ92°.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c120; Mantle waves: s10,c16; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}7.61±.10; $M_{\theta\theta}$−8.80±.12; $M_{\phi\phi}$1.19±.16; $M_{r\theta}$3.63±.22; $M_{r\phi}$−0.06±.16; $M_{\theta\phi}$−0.06±.11. Principal Axes: T 8.38,Plg78°,Azm3°; N 1.19,Plg1°,Azm270°; P −9.56,Plg12°,Azm180°. Best double couple: $M_0$9.0×10^{17}Nm, NP1:ϕ_S269°,δ33°,λ89°. NP2:ϕ_S90°,δ57°,λ91°.						
EIDC	**VIII**	**29 20 45 56.1**	**4.9S**	**150.0E**	**0**	**3.7b**		**21-28**
								¶97viii4378
ISC	**VIII**	**29 23 00 32**±1.3	**5.2S**±.21	**151.7E**±.29	**147**±11	**4.1b**	**14**	**1-96**
NEIC	VIII	29 23 00 17.3	6.38S	153.59E	33	4.4b		¶97viii4389
EIDC	VIII	29 23 00 28.7	5.6S	152.3E	116	3.9b		
NEIC		Less reliable solution.						
EIDC	**VIII**	**30 08 52 03.4**	**6.3S**	**151.3E**	**0**	**3.6b**		**21-27**
								¶97viii4463
ISC	**VIII**	**31 08 12 30**±1.3	**5.46S**±.097	**151.6E**±.12	**60**±12	**4.4b,4.2s**	**36**	**1-151**
NEIC	VIII	31 08 12 29.1	5.07S	151.18E	54	4.6b		¶97viii4618
BJI	VIII	31 08 12 31.9	4.75S	151.61E	53	4.7b		
EIDC	VIII	31 08 12 33.5	5.4S	151.5E	81	4.0b,4.2s		
NEIC		Less reliable solution.						
ISC	**VIII**	**31 08 19 17**±2.2	**4.5S**±.21	**150.8E**±.23	**45**±25	**3.9b**	**11**	**1-83**
NEIC	VIII	31 08 19 16.8	4.52S	150.77E	42	4.0b		¶97viii4620
EIDC	VIII	31 08 19 20.3	4.5S	150.7E	57	3.7b,4.4L		
NEIC		Poor solution.						
ISC	**IX**	**02 20 33 20**±2.0	**6.12S**±.066	**153.7E**±.13	**44**±16	**4.4b,4.3s**	**28**	**2-150**
BJI	IX	02 20 33 17.9	6.10S	153.70E	33	5.0b		¶97ix0325
NEIC	IX	02 20 33 18.9	6.08S	153.72E	33	4.2b		
EIDC	IX	02 20 33 24.3	6.1S	153.6E	56	3.8b,4.1s		
NEIC		Less reliable solution.						
EIDC	**IX**	**05 12 12 15.4**	**6.4S**	**148.9E**	**56**	3.4b,4.0L		¶97ix0744
ISC	**IX**	**06 15 09 27**±2.5	**6.87S**±.076	**149.5E**±.14	**55**±22	**4.0b,**3.5s	**24**	**3-152**
EIDC	IX	06 15 09 28.0	7.0S	150.1E	59	3.7b,3.8s		¶97ix0933
NEIC	IX	06 15 09 31.1	6.95S	149.53E	90	4.3b		
NEIC		Less reliable solution.						
ISC	**IX**	**07 12 28 23**±1.4	**5.16S**±.052	**152.70E**±.096	**51**±12	**4.4b,**3.9s	**50**	**1-158**
BJI	IX	07 12 28 20.7	5.10S	152.70E	33	4.8b		¶97ix1065
NEIC	IX	07 12 28 20.7	5.13S	152.70E	33	4.5b		
EIDC	IX	07 12 28 21.6	5.1S	152.7E	26	4.2b,3.9s		
ISC	**IX**	**07 17 14 41**±1.2	**6.5S**±.10	**148.9E**±.11	**67**±13	**3.8b**	**15**	**2-85**
NEIC	IX	07 17 14 37.5	6.50S	148.97E	33	4.1b		¶97ix1107
EIDC	IX	07 17 14 41.5	6.6S	149.1E	56	3.6b,4.3L		
NEIC		Less reliable solution.						
ISC	**IX**	**08 01 35 15.2**±.93	**5.12S**±.044	**151.52E**±.061	**99**±9.3	**4.7b**	**76**	**1-152**
BJI	IX	08 01 35 13.5	5.10S	151.60E	90	4.8b		¶97ix1151
NEIC	IX	08 01 35 13.5	5.08S	151.56E	90	4.9b		
EIDC	IX	08 01 35 16.5	5.1S	151.5E	96	4.5b		
EIDC	**IX**	**11 16 41 40.4**	**6.4S**	**152.6E**	**0**	**3.5b**		¶97ix1704
ISC	**IX**	**12 11 31 45.5**±.94	**6.34S**±.066	**148.57E**±.079	**61**±9.0	**4.4b**	**41**	**1-154**
EIDC	IX	12 11 31 38.9	6.2S	148.5E	0	4.2s,4.3b		¶97ix1807
NEIC	IX	12 11 31 42.3	6.26S	148.55E	33	4.5b		
EIDC	**IX**	**13 05 10 10.6**	**7.2S**	**152.1E**	**206**	**3.5b**		¶97ix1921
ISC	**IX**	**13 23 31 26.0**±.95	**6.17S**±.041	**149.97E**±.070	**70**±8.9	**4.7b**	**145**	**2-163**
EIDC	IX	13 23 31 23.3	6.1S	149.9E	27	4.5b,4.8s		¶97ix2049
NEIC	IX	13 23 31 25.9	6.15S	149.85E	66	5.0b		
BJI	IX	13 23 31 26.0	6.09S	150.46E	83	4.8b,5.1s		
HRVD	IX	13 23 31 28.3±.2	6.49S±.03	150.17E±.03	36±1.9			
NEIC		Mw5.4(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c79; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.22±.04; $M_{\theta\theta}$−1.49±.05; $M_{\phi\phi}$0.27±.06; $M_{r\theta}$0.68±.08; $M_{r\phi}$0.27±.06; $M_{\theta\phi}$−0.12±.04. Principal Axes: T 1.43,Plg73°,Azm318°; N 0.24, Plg10°,Azm82°; P −1.67,Plg14°,Azm174°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:						

ϕ_S278°,δ32°,λ108°. NP2:ϕ_S76°,δ59°,λ79°.

ISC	**IX**	**14 18 11 51**±1.2	**5.50S**±.043	**151.71E**±.062	**55**±11	**4.8b,4.3s**	**118**	**1-157**
EIDC	IX	14 18 11 48.5	5.4S	151.8E	18	4.6b,4.2s		¶97ix2156
BJI	IX	14 18 11 51.1	5.17S	151.82E	47	5.0b		
NEIC	IX	14 18 11 51.5	5.51S	151.69E	55	4.9b,4.5s		
ISC	**IX**	**15 00 31 18**±3.9	**6.4S**±.21	**148.6E**±.25	**51**±31	**3.8b**	**9**	**3-85**
EIDC	IX	15 00 31 12.0	6.3S	148.9E	0	4.1L,3.7b		¶97ix2180
NEIC	IX	15 00 31 15.4	6.29S	148.64E	33	3.8b		
NEIC	Poor solution.							
ISC	**IX**	**15 07 51 45**±1.6	**6.4S**±.34	**153.1E**±.44	**33**	**3.6b**	**6**	**2-84**
EIDC	IX	15 07 51 41.1	6.3S	153.0E	0	3.7b		¶97ix2212
NEIC	IX	15 07 51 44.6	6.40S	153.09E	33	3.7b		
NEIC	Poor solution.							
ISC	**IX**	**16 13 36 31**±1.2	**5.47S**±.054	**151.77E**±.079	**63**±11	**4.6b**	**52**	**1-157**
BJI	IX	16 13 36 26.1	5.00S	152.07E	22	4.9b,5.1s		¶97ix2393
NEIC	IX	16 13 36 27.7	5.51S	151.80E	33	5.1b,4.6s		
HRVD	IX	16 13 36 31.0±.7	5.62S±.08	152.27E±.11	33±5.9			
EIDC	IX	16 13 36 40.0	5.7S	151.8E	128	4.0b		
NEIC	Mw5.2(HRV).							

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c40; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}4.05±.55; $M_{\theta\theta}$−4.81±.52; $M_{\phi\phi}$0.76±.75; $M_{r\theta}$5.72±1.38; $M_{r\phi}$1.23±.89; $M_{\theta\phi}$−1.42±.54. Principal Axes: T 6.90,Plg64°,Azm349°; N 1.10, Plg1°,Azm257°; P −8.00,Plg26°,Azm167°. Best double couple: $M_0$7.4×10^{16}Nm, NP1: ϕ_S255°,δ19°,λ87°. NP2:ϕ_S78°,δ71°,λ91°.

EIDC	**IX**	**16 14 54 23.7**	**6.2S**	**152.9E**	**0**	**3.9b**			¶97ix2399
ISC	**IX**	**18 14 21 36**±1.7	**5.6S**±.13	**152.7E**±.31	**33**	**4.0b**	**7**	**1-83**
EIDC	IX	18 14 21 30.1	6.3S	153.6E	0	3.9b		¶97ix2669
ISC	**IX**	**20 01 01 19**±1.4	**5.3S**±.30	**152.5E**±.35	**33**	**3.7b**	**8**	**7-83**
EIDC	IX	20 01 01 15.6	5.3S	152.6E	0	3.9b,4.0L		¶97ix2878
NEIC	IX	20 01 01 19.4	5.26S	152.48E	33	3.6b		
NEIC	Poor solution.							
ISC	**IX**	**21 05 37 15**±2.1	**7.0S**±.12	**150.8E**±.47	**33**	**3.9b**	**8**	**14-151**
NEIC	IX	21 05 37 14.6	6.97S	150.76E	33			¶97ix3048
EIDC	IX	21 05 37 17.0	7.0S	151.0E	45	3.7b		
NEIC	Poor solution.							
ISC	**IX**	**24 20 23 19**±1.7	**5.7S**±.20	**152.2E**±.38	**33**	**3.9b**	**8**	**1-83**
EIDC	IX	24 20 23 15.0	6.1S	152.6E	0	3.8s,3.9b		¶97ix3627
NEIC	IX	24 20 23 18.9	5.68S	152.20E	33	4.2b		
NEIC	Poor solution.							
ISC	**IX**	**25 09 23 07.0**±.95	**6.33S**±.056	**149.18E**±.065	**60**±9.1	**4.6b**	**42**	**1-152**
EIDC	IX	25 09 23 05.0	6.3S	149.4E	30	4.3b,3.7s		¶97ix3715
NEIC	IX	25 09 23 07.1	6.34S	149.17E	60	4.7b		
ISC	**IX**	**25 18 44 17.3**±.71	**4.38S**±.043	**152.03E**±.066	**169**±7.1	**4.5b**	**63**	**0-157**
NEIC	IX	25 18 44 16.9	4.36S	152.02E	167	4.6b		¶97ix3773
EIDC	IX	25 18 44 20.3	4.4S	152.0E	182	4.1b		
BJI	IX	25 18 44 23.5	3.55S	151.38E	167	4.7b		
EIDC	**IX**	**26 23 35 16.8**	**6.1S**	**150.5E**	**0**	**3.7b**			¶97ix4182
ISC	**IX**	**27 19 59 22**±1.1	**4.9S**±.19	**151.7E**±.25	**114**±12	**3.7b**	**11**	**1-85**
NEIC	IX	27 19 59 21.8	4.93S	151.73E	114	3.7b		¶97ix4443
EIDC	IX	27 19 59 22.9	5.2S	152.0E	116	3.6b		
NEIC	Less reliable solution.							
ISC	**IX**	**30 05 53 50**±1.5	**6.9S**±.15	**148.1E**±.18	**33**	**3.7b**	**7**	**4-121**
EIDC	IX	30 05 53 46.1	6.6S	147.9E	0	3.7b,3.9L		¶97ix5138
NEIC	IX	30 05 53 50.2	6.90S	148.02E	33			
NEIC	Less reliable solution.							
ISC	**X**	**01 04 12 24**±1.2	**4.37S**±.060	**152.53E**±.079	**41**±11	**4.6b,4.3s**	**50**	**0-152**
EIDC	X	01 04 12 22.3	4.4S	152.8E	24	4.2b,4.2s		¶97x0023
BJI	X	01 04 12 23.2	4.30S	152.60E	40	4.9b		
NEIC	X	01 04 12 23.2	4.33S	152.60E	40	4.7b		
NEIC	Less reliable solution.							
ISC	**X**	**01 16 14 23**±1.7	**5.0S**±.16	**152.0E**±.26	**57**±16	**3.6b**	**10**	**1-83**
EIDC	X	01 16 14 15.1	5.0S	152.4E	0	3.8b		¶97x0118
NEIC	X	01 16 14 22.2	5.06S	151.77E	33	4.0b		
NEIC	Less reliable solution.							
ISC	**X**	**03 00 15 35.3**±.81	**6.25S**±.034	**148.62E**±.049	**91**±7.3	**4.9b**	**162**	**3-164**
BJI	X	03 00 15 35.6	6.59S	148.70E	124	4.9b		¶97x0361
HRVD	X	03 00 15 36.6±.2	6.54S±.02	149.02E±.03	29±1.6			
NEIC	X	03 00 15 37.2	6.29S	148.49E	100	5.1b		
EIDC	X	03 00 15 38.5	6.3S	148.4E	99	4.5b		

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c95; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}1.78±.05; $M_{\theta\theta}$−1.58±.05; $M_{\phi\phi}$−0.20±.06; $M_{r\theta}$0.65±.15; $M_{r\phi}$1.39±.14; $M_{\theta\phi}$−1.24±.06. Principal Axes: T 2.50,Plg63°,Azm270°; N 0.19, Plg21°,Azm48°; P −2.69,Plg17°,Azm145°. Best double couple: $M_0$2.6×10^{17}Nm, NP1: ϕ_S263°,δ34°,λ130°. NP2:ϕ_S38°,δ65°,λ67°.

NEIC	Mw5.6(HRV).								
ISC	**X**	**03 05 05 48**±1.3	**5.60S**±.086	**148.6E**±.12	**186**±12	**4.4b**	**22**	**2-122**
EIDC	X	03 05 05 49.3	5.7S	148.8E	187	4.0b		¶97x0396
NEIC	X	03 05 05 49.4	5.63S	148.53E	200	4.6b		
NEIC	Less reliable solution.							
ISC	**X**	**03 06 44 51**±3.2	**4.1S**±.18	**153.0E**±.32	**75**±21	**4.1b**	**9**	**1-81**
EIDC	X	03 06 44 44.5	3.3S	152.1E	0	3.9b		¶97x0414
ISC	**X**	**04 07 09 27**±1.9	**5.6S**±.16	**152.5E**±.31	**33**	**3.7b**	**6**	**1-83**
EIDC	X	04 07 09 25.1	4.8S	152.0E	0	3.7b		¶97x0601
EIDC	**X**	**06 06 37 32.8**	**6.0S**	**152.5E**	**0**	**3.2b**			¶97x1009
ISC	**X**	**07 07 38 29.8**±.83	**4.98S**±.056	**151.51E**±.090	**107**±8.3	**4.4b**	**38**	**1-156**
NEIC	X	07 07 38 30.2	4.98S	151.52E	114	4.5b		¶97x1202
EIDC	X	07 07 38 31.2	5.2S	151.7E	113	4.1b		
ISC	**X**	**07 13 34 19**±3.3	**5.3S**±.32	**152.0E**±.45	**59**±29	**3.7b**	**9**	**1-83**
EIDC	X	07 13 34 08.2	6.9S	154.2E	0	3.8b		¶97x1258
NEIC	X	07 13 34 15.0	5.53S	152.50E	33	4.0b		
NEIC	Poor solution.							
ISC	**X**	**08 00 03 34**±1.2	**4.1S**±.15	**152.0E**±.21	**164**±10	**3.9b**	**9**	**0-82**
EIDC	X	08 00 03 28.2	4.5S	152.6E	114	3.5b		¶97x1327
NEIC	X	08 00 03 33.2	4.18S	152.08E	160	4.6b		
NEIC	Poor solution.							
ISC	**X**	**08 11 49 42**±1.1	**6.0S**±.11	**148.20E**±.098	**85**±11	**4.4b**	**22**	**2-153**
NEIC	X	08 11 49 39.8	5.87S	148.12E	66	4.4b		¶97x1408
EIDC	X	08 11 49 43.9	5.7S	147.7E	85	4.2b,3.0s		
NEIC	Less reliable solution.							
EIDC	**X**	**10 14 44 12.3**	**5.3S**	**152.7E**	**0**	**3.6b**			¶97x1762
EIDC	**X**	**11 17 43 17.8**	**6.9S**	**150.0E**	**75**	4.0L,3.2b			¶97x1917
ISC	**X**	**12 10 45 03**±3.8	**5.9S**±.16	**150.4E**±.37	**111**±30	**3.9b**	**11**	**5-84**
NEIC	X	12 10 45 01.9	5.88S	150.46E	100	4.2b		¶97x2025
EIDC	X	12 10 45 05.0	5.8S	150.1E	104	3.8b		
NEIC	Poor solution.							
ISC	**X**	**12 22 43 54**±1.6	**6.4S**±.34	**152.8E**±.44	**33**	**3.7b**	**6**	**21-84**
EIDC	X	12 22 43 50.1	6.2S	152.7E	0	3.8b		¶97x2117
ISC	**X**	**18 12 23 20**±1.3	**5.42S**±.089	**151.3E**±.11	**53**±14	**4.5b**	**27**	**1-152**
EIDC	X	18 12 23 19.0	5.4S	151.3E	34	4.2b,4.9L		¶97x3156
NEIC	X	18 12 23 19.5	5.42S	151.31E	54	4.6b		
ISC	**X**	**18 15 55 44**±1.2	**6.2S**±.15	**149.74E**±.092	**58**±18	**3.9b**	**15**	**3-124**
EIDC	X	18 15 55 37.3	6.2S	149.9E	0	4.1b,5.2L		¶97x3190
NEIC	X	18 15 55 43.6	6.24S	149.74E	55	4.2b		
NEIC	Less reliable solution.							
ISC	**X**	**19 02 58 58**±1.2	**5.73S**±.060	**149.31E**±.099	**124**±13	**4.3b**	**30**	**3-153**
NEIC	X	19 02 58 57.1	5.71S	149.31E	115	4.5b		¶97x3278
EIDC	X	19 02 58 57.4	5.9S	149.6E	115	3.9b		
EIDC	**X**	**19 14 47 56.4**	**6.5S**	**150.0E**	**0**	**3.7b**			¶97x3359
ISC	**X**	**20 04 23 52.5**±.93	**5.4S**±.35	**151.2E**±.45	**33**	**3.7b**	**7**	**2-152**
EIDC	X	20 04 23 47.5	5.4S	151.7E	0	3.9b		¶97x3435
NEIC	X	20 04 23 52.4	5.27S	151.08E	33	4.2b		
NEIC	Poor solution.							
ISC	**X**	**20 21 43 11**±2.0	**4.6S**±.17	**152.6E**±.29	**104**±13	**4.1b**	**14**	**1-124**
NEIC	X	20 21 43 10.5	4.67S	152.62E	100	4.0b		¶97x3563
EIDC	X	20 21 43 10.8	4.8S	152.9E	95	3.9b		
NEIC	Less reliable solution.							
ISC	**X**	**22 12 23 24.9**±.97	**6.27S**±.051	**148.70E**±.065	**70**±9.2	**4.5b**	**50**	**2-154**
BJI	X	22 12 23 20.4	6.95S	148.67E	74	4.8b		¶97x3809
NEIC	X	22 12 23 22.7	6.22S	148.67E	48	4.6b		
EIDC	X	22 12 23 23.2	6.3S	149.1E	45	4.3b,4.7L		
ISC	**X**	**22 21 29 48**±1.2	**7.08S**±.076	**150.29E**±.096	**70**±13	**4.2b**	**18**	**3-151**
NEIC	X	22 21 29 44.6	7.04S	150.17E	33	4.3b		¶97x3884
EIDC	X	22 21 29 49.8	7.1S	150.2E	69	3.9b		
NEIC	Less reliable solution.							
ISC	**X**	**23 09 35 35**±1.1	**5.6S**±.25	**151.1E**±.28	**33**	**3.4b**	**6**	**2-28**
EIDC	X	23 09 35 33.1	6.0S	151.5E	0	3.5b		¶97x3958
NEIC	X	23 09 35 34.6	5.59S	151.09E	33	3.8b		
NEIC	Poor solution.							
ISC	**X**	**23 19 01 54**±1.5	**5.4S**±.17	**151.0E**±.22	**41**±19	**3.9b**	**11**	**2-83**
NEIC	X	23 19 01 53.6	5.39S	151.04E	33	4.1b		¶97x4049
EIDC	X	23 19 01 57.9	5.5S	151.1E	58	3.6b,3.9L		
NEIC	Poor solution.							
ISC	**X**	**23 23 41 27**±3.1	**5.5S**±.21	**151.1E**±.43	**43**±58	**3.5b**	**8**	**2-28**
EIDC	X	23 23 41 19.7	5.2S	151.4E	0	3.7b,4.0L		¶97x4085
NEIC	X	23 23 41 26.7	5.52S	151.05E	33	3.5b		
NEIC	Less reliable solution.							
ISC	**X**	**24 02 05 42**±2.5	**5.7S**±.41	**151.6E**±.49	**64**±35	**3.3b**	**6**	**2-28**
EIDC	X	24 02 05 59.3	6.9S	151.0E	102	3.1b,3.6L		¶97x4093
ISC	**X**	**24 02 18 41**±6.4	**5.8S**±.46	**148.8E**±.53	**150**	3.7b	**7**	**4-27**
EIDC	X	24 02 18 47.5	6.2S	148.6E	167	3.4b		¶97x4094
ISC	**X**	**24 03 12 54**±2.0	**5.4S**±.13	**150.9E**±.35	**33**	**4.0b**,3.7s	**11**	**5-152**
EIDC	X	24 03 12 50.9	5.4S	151.1E	0	4.1b,3.7s		¶97x4101
NEIC	X	24 03 12 53.8	5.41S	151.04E	33	4.2b		
NEIC	Poor solution.							
EIDC	**X**	**25 07 29 24.4**	**4.6S**	**151.0E**	**0**	**3.6b**			¶97x4293
ISC	**X**	**25 07 42 57**±8.2	**5.4S**±.14	**150.9E**±.18	**10**±56	**4.2b**	**12**	**2-152**
EIDC	X	25 07 42 55.4	5.5S	151.2E	0	4.3b,3.7L		¶97x4295
NEIC	X	25 07 42 59.6	5.38S	150.91E	33	4.3b		
NEIC	Less reliable solution.							
ISC	**X**	**29 21 07 29**±11	**5.6S**±.74	**148.7E**±.73	**158**±25	**4.1b**	**9**	**2-40**
NEIC	X	29 21 07 26.1	5.38S	148.82E	150	4.0b		¶97x4951
EIDC	X	29 21 07 29.9	5.6S	148.6E	145	3.8b		
NEIC	Poor solution.							
EIDC	**XI**	**01 05 19 22.6**	**7.4S**	**151.4E**	**0**	**3.3b**			¶97xi0032
ISC	**XI**	**01 21 37 29**±2.0	**5.3S**±.23	**150.2E**±.28	**51**±27	**3.7b**	**9**	**2-84**
EIDC	XI	01 21 37 21.2	5.6S	150.9E	0	3.7b,4.2L		¶97xi0142
NEIC	XI	01 21 37 27.9	5.22S	150.08E	33	3.8b		
NEIC	Less reliable solution.							
ISC	**XI**	**02 01 45 37**±1.6	**5.4S**±.12	**152.7E**±.29	**33**	**3.4b**,3.7s	**6**	**1-83**
EIDC	XI	02 01 45 33.8	5.1S	152.4E	0	3.6b,3.7s		¶97xi0182
NEIC	XI	02 01 45 37.4	5.43S	152.65E	33	3.5b		
NEIC	Poor solution.							
ISC	**XI**	**02 15 01 34.6**±.97	**4.5S**±.19	**151.8E**±.22	**33**	**3.4b**	**7**	**0-57**
EIDC	XI	02 15 01 17.8	2.7S	152.0E	0	3.6b		¶97xi0284
ISC	**XI**	**03 02 33 55**±1.6	**5.7S**±.10	**148.4E**±.15	**182**±11	**4.3b**	**20**	**2-85**
EIDC	XI	03 02 33 52.7	5.7S	148.8E	154	3.9b		¶97xi0381
NEIC	XI	03 02 33 54.6	5.69S	148.43E	182	4.4b		
NEIC	Less reliable solution.							
EIDC	**XI**	**03 13 02 52.2**	**5.0S**	**150.2E**	**0**	**3.3b**			¶97xi0465
EIDC	**XI**	**03 15 53 36.7**	**5.9S**	**150.7E**	**0**	**3.2b**			¶97xi0489
ISC	**XI**	**05 01 19 25**±2.2	**5.20S**±.080	**151.1E**±.10	**168**±21	**4.3b**	**41**	**6-152**
NEIC	XI	05 01 19 22.6	5.17S	151.13E	150	4.5b		¶97xi0716
BJI	XI	05 01 19 24.1	5.09S	150.92E	156	4.8b		
EIDC	XI	05 01 19 24.1	5.2S	151.3E	152	4.0b		
ISC	**XI**	**05 20 50 54**±4.3	**5.3S**±.18	**152.1E**±.26	**84**±34	**3.9b**	**12**	**6-83**
NEIC	XI	05 20 50 47.7	5.26S	152.39E	33	4.0b		¶97xi0862
EIDC	XI	05 20 50 53.4	5.5S	152.4E	70	3.9b,4.2L		
NEIC	Poor solution.							
ISC	**XI**	**06 06 54 58**±3.2	**4.1S**±.11	**150.7E**±.14	**98**±30	**4.1b**	**20**	**6-153**
NEIC	XI	06 06 54 58.0	4.07S	150.71E	100	4.2b		¶97xi0939
EIDC	XI	06 06 55 00.6	4.1S	150.6E	106	3.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**07 17 02 05**±1.2	**6.00S**±.064	**150.50E**±.086	**61**±12	**4.3b**	**42**	**2-163**
NEIC	XI	07 17 02 04.2	5.98S	150.48E	60	4.4b		¶97xi1149
EIDC	XI	07 17 02 04.9	6.1S	150.8E	55	4.1b,4.0s		
ISC	**XI**	**07 19 43 17**±1.7	**6.6S**±.32	**152.2E**±.33	**33**	**3.7b**	**4**	**6-84**
EIDC	XI	07 19 43 13.5	6.6S	152.4E	0	3.9b,4.0L		¶97xi1162
ISC	Poorly determined							
EIDC	**XI**	**08 06 55 39.1**	**7.3S**	**149.2E**	**244**	2.9b			¶97xi1227
ISC	**XI**	**08 15 32 59**±6.3	**5.5S**±.74	**150.6E**±.47	**33**	**3.5b**	**5**	**5-28**
EIDC	XI	08 15 32 57.7	5.7S	150.6E	0	3.6b		¶97xi1304
EIDC	**XI**	**08 16 59 06.8**	**7.4S**	**153.7E**	**0**	**3.5b**			¶97xi1321
EIDC	LO CONF Location								
ISC	**XI**	**09 01 23 42**±1.2	**4.8S**±.15	**152.1E**±.21	**87**±5.3*	**3.5b**	**5**	**1-29**
NEIC	XI	09 01 23 41.8	4.76S	152.12E	92			¶97xi1376
EIDC	XI	09 01 23 55.6	6.0S	151.5E	86	3.4b		
NEIC	Less reliable solution.							
ISC	**XI**	**12 02 59 05**±1.5	**6.21S**±.097	**150.9E**±.12	**56**±17	**4.2b**	**17**	**2-151**
NEIC	XI	12 02 59 02.4	6.30S	150.94E	33	4.3b		¶97xi1923
EIDC	XI	12 02 59 03.5	6.0S	150.8E	31	4.2b,3.7L		
NEIC	Less reliable solution.							
ISC	**XI**	**13 14 32 08**±1.0	**5.2S**±.13	**151.5E**±.18	**139**±12	**4.5b**	**18**	**1-133**
NEIC	XI	13 14 31 56.2	5.07S	151.65E	33	4.8b		¶97xi2153
EIDC	XI	13 14 32 06.7	5.1S	151.5E	104	4.1b		
NEIC	Less reliable solution.							
ISC	**XI**	**14 06 00 33**±1.4	**4.6S**±.16	**151.6E**±.30	**33**	**3.9b**	**10**	**20-82**
EIDC	XI	14 06 00 29.5	4.6S	151.6E	0	3.9b		¶97xi2251
NEIC	XI	14 06 00 32.7	4.63S	151.59E	33	4.1b		
NEIC	Poor solution.							
ISC	**XI**	**14 10 49 00**±2.1	**6.26S**±.095	**148.1E**±.15	**54**±18	**4.0b**	**16**	**1-153**
EIDC	XI	14 10 48 54.8	6.2S	148.1E	0	4.0b,4.1L		¶97xi2278
NEIC	XI	14 10 49 00.1	6.24S	148.07E	52	4.0b		

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	Less reliable solution.						
ISC	**XI 14 18 07 39**±1.8	**5.20S**±.091	**150.7E**±.13	**232**±15	**3.9b**	**24**	**4-152**
NEIC	XI 14 18 07 39.4	5.19S	150.68E	234	4.4b		¶97xi2331
EIDC	XI 14 18 07 40.5	5.3S	150.9E	235	3.4b		
NEIC	Less reliable solution.						
ISC	**XI 15 14 17 34**±1.8	**5.3S**±.12	**152.3E**±.23	**60**±16	**3.8b**,3.1s	**12**	**1-83**
EIDC	XI 15 14 17 27.1	5.2S	152.5E	0	3.9b,4.0L		¶97xi2489
NEIC	XI 15 14 17 33.8	5.32S	152.27E	60	4.0b		
NEIC	Poor solution.						
EIDC	**XI 15 20 39 29.2**	**6.3S**	**148.1E**	**0**	3.2b,3.8L		¶97xi2533
ISC	**XI 17 11 13 46**±1.4	**5.9S**±.17	**149.8E**±.17	**81**±18	**3.4b**	**11**	**3-152**
EIDC	XI 17 11 13 43.9	5.9S	150.0E	44	3.4b,3.7s		¶97xi2785
NEIC	XI 17 11 13 46.4	5.93S	149.82E	86	3.9b		
NEIC	Less reliable solution.						
ISC	**XI 17 20 51 07**±2.7	**7.3S**±.23	**151.5E**±.31	**33**	**3.6b**	**6**	**5-58**
EIDC	XI 17 20 51 03.5	7.3S	151.6E	0	3.6b,3.5L		¶97xi2857
NEIC	XI 17 20 51 07.2	7.26S	151.47E	33	3.9b		
NEIC	Poor solution.						
EIDC	**XI 19 06 16 30.3**	**5.1S**	**150.8E**	**0**	**3.4b**		¶97xi3148
ISC	**XI 20 14 26 55.6**±.71	**5.58S**±.094	**151.22E**±.096	**33**	**3.9b**,3.3s	**21**	**2-135**
EIDC	XI 20 14 26 53.8	5.6S	151.0E	0	3.8b,2.8L		¶97xi3478
NEIC	XI 20 14 26 56.6	5.62S	151.21E	33	4.0b		
NEIC	Less reliable solution.						
ISC	**XI 20 17 26 07.0**±.80	**6.00S**±.036	**149.62E**±.046	**79**±7.6	**5.0b**	**123**	**3-163**
NEIC	XI 20 17 26 04.6	5.94S	149.61E	56	5.1b,4.8s		¶97xi3507
BJI	XI 20 17 26 05.3	6.01S	149.88E	73	5.2b,4.9s		
EIDC	XI 20 17 26 06.2	5.9S	149.6E	57	4.7b		
HRVD	XI 20 17 26 08.8±.6	6.08S±.05	149.68E±.06	47±4.7			
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c34; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}7.26±.58; $M_{\theta\theta}$−6.69±.71; $M_{\phi\phi}$−0.57±1.16; $M_{r\theta}$5.44±1.06; $M_{r\phi}$2.20±1.01; $M_{\theta\phi}$1.02±.50. Principal Axes: T 9.69,Plg67°,Azm324°; N −1.12,Plg13°,Azm87°; P −8.57,Plg19°,Azm182°. Best double couple: $M_0$9.1×10^{16}Nm, NP1: ϕ_S292°,δ29°,λ118°. NP2:ϕ_S81°,δ65°,λ75°.						
EIDC	**XI 23 05 37 07.4**	**5.5S**	**150.3E**	**0**	**3.4b**		¶97xi4046
ISC	**XI 24 04 18 38**±1.5	**4.8S**±.31	**151.8E**±.41	**33**	**4.2b**	**6**	**1-29**
NEIC	XI 24 04 18 37.8	4.86S	151.82E	33	4.2b		¶97xi4263
NEIC	Poor solution.						
ISC	**XI 25 06 01 57**±1.5	**4.7S**±.25	**151.2E**±.25	**72**±18	**3.6b**	**10**	**1-83**
NEIC	XI 25 06 01 56.5	4.76S	151.16E	71	3.9b		¶97xi4456
EIDC	XI 25 06 01 56.6	4.6S	151.0E	57	3.5b,4.3L		
NEIC	Poor solution.						
ISC	**XI 29 13 22 03**±1.5	**5.2S**±.52	**151.4E**±.62	**75**±27	**4.2b**	**6**	**1-28**
							¶97xi5273
ISC	**XI 30 08 06 48**±2.1	**5.4S**±.16	**152.3E**±.17	**44**±29	**4.2b**	**7**	**1-38**
NEIC	XI 30 08 06 47.0	5.46S	152.34E	33	4.2b		¶97xi5385
NEIC	Less reliable solution.						
ISC	**XI 30 15 53 27**±1.5	**5.42S**±.063	**152.2E**±.11	**52**±14	**4.5b**	**29**	**1-157**
EIDC	XI 30 15 53 21.3	5.3S	152.3E	0	4.5b,4.2L		¶97xi5429
NEIC	XI 30 15 53 25.1	5.43S	152.25E	33	4.8b		
BJI	XI 30 15 53 26.3	4.86S	151.59E	7	4.7b		
ISC	**XI 30 16 18 29**±1.8	**5.4S**±.10	**152.4E**±.15	**53**±19	**4.0b**,3.4s	**11**	**1-83**
EIDC	XI 30 16 18 22.9	5.5S	152.7E	0	4.1b,3.4s		¶97xi5432
NEIC	XI 30 16 18 27.6	5.46S	152.42E	33	4.1b		
NEIC	Less reliable solution.						
ISC	**XI 30 18 18 43**±1.8	**5.3S**±.12	**152.4E**±.17	**47**±21	**4.2b**	**8**	**1-59**
BJI	XI 30 18 18 42.6	5.30S	152.50E	33	5.2b,4.9s		¶97xi5443
NEIC	XI 30 18 18 42.6	5.33S	152.45E	33	4.0b		
NEIC	Less reliable solution.						
EIDC	**XII 01 00 02 36.1**±5.80	**6.8S**	**151.1E**	**0**	**3.5b**		**21-26**
							¶97xii0001
EIDC	Error ellipse is semi−major=114.6km semi−minor=63.1km azimuth=153						
ISC	**XII 01 11 21 40**±1.7	**5.3S**±.41	**152.8E**±.60	**33**	**3.4b**	**4**	**23-83**
EIDC	XII 01 11 21 36.4±1.59	5.2S	152.8E	0	3.6b		¶97xii0074
ISC	Poorly determined						
EIDC	Error ellipse is semi−major=98.0km semi−minor=26.3km azimuth=123						
ISC	**XII 01 14 11 51**±3.9	**5.7S**±.21	**150.0E**±.16	**62**±31	**3.9b**	**13**	**5-152**
NEIC	XII 01 14 11 47.6	5.61S	150.05E	33	4.1b		¶97xii0098
EIDC	XII 01 14 11 53.2±4.70	5.7S	149.9E	64±42.8	3.8b,3.4s		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=57.7km semi−minor=17.3km azimuth=135						
ISC	**XII 02 07 35 54**±5.8	**5.8S**±.48	**148.1E**±.33	**33**	**3.7b**	**7**	**2-27**
NEIC	XII 02 07 35 57.4	6.17S	147.95E	33	3.9b		¶97xii0207
EIDC	XII 02 07 35 59.8	6.8S	148.0E	0	3.7b,3.8L		
NEIC	Poor solution.						
EIDC	Origin time error = 17.33Error ellipse is semi−major=275.7km semi−minor=90.2km azimuth=4						
ISC	**XII 04 17 24 35**±1.3	**6.0S**±.24	**148.7E**±.17	**83**±18	**3.4b**	**8**	**2-27**
EIDC	XII 04 17 24 11.4	5.8S	150.8E	0	3.5b		¶97xii0657
EIDC	Origin time error = 13.94Error ellipse is semi−major=227.7km semi−minor=86.4km azimuth=13						
ISC	**XII 05 09 33 47**±6.2	**6.1S**±.69	**149.8E**±.45	**73**	**3.6b**	**6**	**4-27**
EIDC	XII 05 09 33 52.6±9.01	6.6S	149.8E	73±62.1	3.2b,4.0L		¶97xii0821
EIDC	Error ellipse is semi−major=98.2km semi−minor=61.7km azimuth=137						
ISC	**XII 08 08 23 34.6**±.88	**5.65S**±.088	**148.64E**±.085	**162**±9.1	**4.5b**	**23**	**2-153**
NEIC	XII 08 08 23 34.7	5.66S	148.62E	164			¶97xii1892
EIDC	XII 08 08 23 34.9±3.28	5.7S	149.0E	152±29.6	4.2b		
EIDC	Error ellipse is semi−major=41.3km semi−minor=21.6km azimuth=98						
ISC	**XII 08 12 16 49**±1.3	**5.0S**±.17	**152.1E**±.24	**149**±11	**4.1b**	**10**	**1-83**
NEIC	XII 08 12 16 48.9	5.01S	152.05E	149	4.2b		¶97xii1924
EIDC	XII 08 12 16 50.9±2.83	5.1S	152.1E	152±21.1	3.6b		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=42.7km semi−minor=16.4km azimuth=122						
ISC	**XII 08 18 47 22.4**±.63	**5.66S**±.029	**148.30E**±.040	**160**±6.2	**5.2b**	**174**	**2-153**
MOS	XII 08 18 47 09.4	5.4S	148.1E	33	5.7b		¶97xii1990
BJI	XII 08 18 47 21.0	5.96S	148.43E	172	5.2b		
NEIC	XII 08 18 47 21.6	5.65S	148.32E	155	5.4b		
EIDC	XII 08 18 47 23.5±.64	5.6S	148.4E	156±4.8	5.0b,4.1s		
HRVD	XII 08 18 47 25.1±.6	5.80S±.05	148.12E±.08	137±3.3			
NEIC	Mw5.4(HRV).						
EIDC	Error ellipse is semi−major=15.6km semi−minor=7.9km azimuth=109						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c24; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.44±.07; $M_{\theta\theta}$0.56±.08; $M_{\phi\phi}$−0.12±.09; $M_{r\theta}$−1.05±.06; $M_{r\phi}$0.06±.10; $M_{\theta\phi}$−0.31±.10. Principal Axes: T 1.28,Plg31°,Azm194°; N −0.17,Plg12°,Azm97°; P −1.12,Plg56°,Azm348°. Best double couple: $M_0$1.2×10^{17}Nm, NP1: ϕ_S318°,δ18°,λ−47°. NP2:ϕ_S94°,δ77°,λ−102°.						
ISC	**XII 10 12 25 05**±2.4	**5.3S**±.15	**152.4E**±.26	**63**±18	**3.8b**	**13**	**1-96**
NEIC	XII 10 12 25 01.1	5.42S	152.76E	33	4.2b		¶97xii2351
EIDC	XII 10 12 25 04.8±1.12	5.2S	152.7E	47±8.7	3.6b,3.9L		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=47.6km semi−minor=15.6km azimuth=124						
ISC	**XII 11 07 24 21**±1.3	**5.39S**±.074	**152.1E**±.10	**57**±11	**4.4b**	**31**	**1-100**
EIDC	XII 11 07 24 14.7±.98	5.0S	151.8E	0	4.4b,4.0L		¶97xii2515
NEIC	XII 11 07 24 20.3	5.41S	152.12E	58	4.5b		
EIDC	Error ellipse is semi−major=52.9km semi−minor=16.9km azimuth=123						
NEIC	Less reliable solution.						
ISC	**XII 11 20 52 31**±1.4	**4.1S**±.40	**152.0E**±.43	**432**±12	**3.4b**	**7**	**0-82**
EIDC	XII 11 20 51 47.6±3.19	3.6S	152.5E	0	3.6b		¶97xii2638
EIDC	Error ellipse is semi−major=339.6km semi−minor=27.1km azimuth=126						
ISC	**XII 14 08 38 39.6**±.38	**5.33S**±.067	**152.07E**±.093	**33**	**4.4b**	**35**	**6-151**
EIDC	XII 14 08 38 36.4±.68	5.2S	152.1E	0	4.4b,4.0L		¶97xii3117
NEIC	XII 14 08 38 39.5	5.41S	152.17E	33	4.5b		
EIDC	Error ellipse is semi−major=29.6km semi−minor=15.5km azimuth=118						
NEIC	Less reliable solution.						
ISC	**XII 15 01 27 14**±1.2	**5.42S**±.051	**152.04E**±.074	**53**±11	**4.7b,4.4s**	**73**	**1-157**
BJI	XII 15 01 27 13.6	4.81S	151.93E	21	4.9b,4.9s		¶97xii3219
NEIC	XII 15 01 27 14.3	5.43S	152.07E	53	4.9b		
EIDC	XII 15 01 27 17.4±2.26	5.5S	152.1E	69±18.7	4.4b,4.3s		
EIDC	Error ellipse is semi−major=24.6km semi−minor=9.7km azimuth=123						
ISC	**XII 15 02 27 56**±1.2	**6.03S**±.092	**149.87E**±.095	**71**±12	**4.2b**	**22**	**3-155**
NEIC	XII 15 02 27 55.6	6.04S	149.87E	70	4.6b		¶97xii3230
EIDC	XII 15 02 27 56.5±5.50	6.0S	149.8E	63±46.7	3.9b,3.8s		
EIDC	Error ellipse is semi−major=41.6km semi−minor=22.3km azimuth=91						
EIDC	**XII 15 03 00 53.9**±1.28	**5.2S**	**152.2E**	**20**±6.5	**4.0b**,4.1L		**1-83**
							¶97xii3233
EIDC	Error ellipse is semi−major=68.9km semi−minor=19.4km azimuth=128						
ISC	**XII 15 04 28 07.9**±.90	**5.58S**±.087	**148.14E**±.091	**156**±9.2	**4.1b**	**22**	**2-154**
EIDC	XII 15 04 28 07.7±1.73	5.6S	148.4E	142±14.8	4.0b,3.4s		¶97xii3242
NEIC	XII 15 04 28 08.1	5.63S	148.15E	158	4.4b		
EIDC	Error ellipse is semi−major=28.6km semi−minor=11.4km azimuth=106						
ISC	**XII 15 10 28 09.5**±.84	**6.10S**±.034	**149.88E**±.046	**67**±7.8	**5.0b**	**211**	**3-163**
MOS	XII 15 10 28 05.9	6.0S	149.6E	33	5.6b,5.4s		¶97xii3267
NEIC	XII 15 10 28 06.0	6.04S	149.87E	33	5.3b,5.8s		
BJI	XII 15 10 28 06.6	6.11S	149.92E	42	5.0b,5.7s		
EIDC	XII 15 10 28 08.2±.37	6.1S	150.0E	38±3.1	4.7b,5.3s		
HRVD	XII 15 10 28 13.5±.2	6.51S±.02	150.12E±.02	35			
NEIC	Mw5.9(GS), M_L5.8(PMG).						
NEIC	Mw 5.9 (HRV).						
NEIC	Moment tensor solution: s18, scale 10^{17}Nm; M_{rr}5.97; $M_{\theta\theta}$−6.57; $M_{\phi\phi}$0.61; $M_{r\theta}$2.14; $M_{r\phi}$0.14; $M_{\theta\phi}$0.90. Depth 33km; Principal axes: T 6.33,Plg80°,Azm343°; N 0.69,Plg4°,Azm96°; P −7.03,Plg9°,Azm187°. Best double couple: $M_0$6.7×10^{17}Nm; NP1:ϕ_S281°,δ36°,λ97°. NP2: ϕ_S93°,δ54°,λ85°.						
EIDC	Error ellipse is semi−major=19.0km semi−minor=11.0km azimuth=94						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c93; Mantle waves: s6,c8; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}7.24±.11; $M_{\theta\theta}$−8.23±.16; $M_{\phi\phi}$0.99±.18; $M_{r\theta}$4.19±.28; $M_{r\phi}$1.13±.23; $M_{\theta\phi}$−1.40±.13. Principal Axes: T 8.38,Plg75°,Azm336°; N 1.17,Plg4°,Azm80°; P −9.55,Plg14°,Azm171°. Best double couple: $M_0$9.0×10^{17}Nm, NP1:ϕ_S266°,δ31°,λ97°. NP2:ϕ_S78°,δ60°,λ86°.						
ISC	**XII 15 10 49 40**±1.3	**6.12S**±.050	**149.84E**±.083	**57**±13	**4.6b**	**55**	**3-155**
BJI	XII 15 10 49 33.5	6.73S	150.35E	50	4.7b		¶97xii3273
NEIC	XII 15 10 49 39.7	6.11S	149.84E	50	4.6b		
EIDC	XII 15 10 49 41.1±.75	6.2S	149.9E	47±5.7	4.3b		
EIDC	Error ellipse is semi−major=23.5km semi−minor=9.9km azimuth=112						
ISC	**XII 16 15 59 32.1**±.95	**6.6S**±.14	**148.42E**±.093	**33**	3.8b	**10**	**2-26**
NEIC	XII 16 15 59 31.4	6.61S	148.38E	33	4.0b		¶97xii3474
EIDC	XII 16 15 59 32.9	6.8S	148.1E	0	3.9b,4.8L		
NEIC	Less reliable solution.						
EIDC	Origin time error = 17.41Error ellipse is semi−major=276.2km semi−minor=85.9km azimuth=5						
EIDC	**XII 19 01 35 42.0**	**6.7S**	**150.6E**	**99**±17.0	**3.6b**		**4-26**
							¶97xii3869
EIDC	Origin time error = 12.68Error ellipse is semi−major=191.1km semi−minor=85.8km azimuth=17						
ISC	**XII 19 02 13 25**±1.0	**6.3S**±.14	**150.5E**±.15	**33**	4.0b	**9**	**3-27**
EIDC	XII 19 02 13 21.3±8.80	5.8S	150.7E	34±13.0	4.0b		¶97xii3876
NEIC	XII 19 02 13 24.7	6.29S	150.43E	33	4.1b		
EIDC	Error ellipse is semi−major=146.8km semi−minor=82.6km azimuth=5						
NEIC	Less reliable solution.						
ISC	**XII 19 11 52 38**±7.2	**6.1S**±.88	**150.7E**±.41	**33**	**3.6b**	**5**	**5-27**
EIDC	XII 19 11 52 29.9	5.7S	151.0E	0	3.8b		¶97xii3949
EIDC	Origin time error = 19.16Error ellipse is semi−major=313.0km semi−minor=93.4km azimuth=15						
ISC	**XII 19 20 25 19**±1.1	**4.8S**±.18	**151.8E**±.18	**97**±22	**4.1b**	**12**	**1-57**
NEIC	XII 19 20 25 19.3	4.84S	151.86E	100	4.2b		¶97xii4031
EIDC	XII 19 20 25 31.7±5.68	5.2S	151.5E	177±16.2	3.7b		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=95.8km semi−minor=35.7km azimuth=77						
ISC	**XII 22 20 51 39.3**±.58	**5.91S**±.082	**148.3E**±.11	**33**	**4.3b**	**31**	**2-153**
NEIC	XII 22 20 51 45.2	5.96S	148.23E	87	4.7b		¶97xii4485
EIDC	XII 22 20 51 47.4±1.62	6.0S	148.3E	89±13.4	4.1b		
EIDC	Error ellipse is semi−major=28.0km semi−minor=9.5km azimuth=114						
ISC	**XII 23 01 08 13**±2.0	**5.3S**±.50	**152.8E**±.54	**33**	**3.7b**	**5**	**21-83**
EIDC	XII 23 01 08 07.6±3.85	6.2S	154.0E	0	3.6b		¶97xii4511
EIDC	Error ellipse is semi−major=316.3km semi−minor=30.2km azimuth=130						
EIDC	**XII 26 14 02 32.5**±9.15	**5.8S**	**149.5E**	**44**±67.9	**2.9b**		**3-55**
							¶97xii5138
EIDC	Error ellipse is semi−major=110.6km semi−minor=47.3km azimuth=99						
ISC	**XII 26 14 07 18**±3.4	**5.9S**±.30	**150.0E**±.11	**34**±26	**3.5b**,3.0s	**11**	**5-27**
EIDC	XII 26 14 07 12.3±6.83	5.8S	150.3E	0	3.8b,3.0s		¶97xii5140
EIDC	Error ellipse is semi−major=100.7km semi−minor=76.4km azimuth=32						
ISC	**XII 26 14 07 33**±2.0	**6.20S**±.058	**153.16E**±.082	**43**±17	**4.7b**,3.8s	**66**	**7-159**
NEIC	XII 26 14 07 31.0	6.14S	153.18E	30	4.4b		¶97xii5141
BJI	XII 26 14 07 31.1	5.61S	152.96E	8	5.0b		
EIDC	XII 26 14 07 32.5±.75	6.2S	153.3E	30±4.1	4.4b,3.8s		
EIDC	Error ellipse is semi−major=21.3km semi−minor=12.0km azimuth=113						
ISC	**XII 26 16 38 54.7**±.83	**4.0S**±.11	**152.5E**±.17	**33**	**3.9b**	**18**	**21-152**
EIDC	XII 26 16 38 51.6±.81	4.0S	152.5E	0	4.0b		¶97xii5174
NEIC	XII 26 16 38 54.6	4.08S	152.52E	33	4.0b		
EIDC	Error ellipse is semi−major=31.6km semi−minor=18.2km azimuth=113						
NEIC	Less reliable solution.						
EIDC	**XII 27 16 36 27.3**	**5.8S**	**150.4E**	**0**	**3.2b**		**5-27**
							¶97xii5316
EIDC	Origin time error = 14.41Error ellipse is semi−major=234.2km semi−minor=97.0km azimuth=11						
ISC	**XII 28 01 42 24**±1.3	**5.9S**±.16	**150.4E**±.18	**33**	**3.8b**	**15**	**5-152**
EIDC	XII 28 01 42 20.6±1.12	5.9S	150.5E	0	3.9b		¶97xii5376
NEIC	XII 28 01 42 24.0	5.96S	150.45E	33	4.2b		
EIDC	Error ellipse is semi−major=59.5km semi−minor=22.7km azimuth=128						
NEIC	Less reliable solution.						

ISC	**XII**	**28 03 25 17**±1.4	**4.46S**±.034	**152.97E**±.045	**70**±13	**5.3b**	**323**	**7-163**
BJI	XII	28 03 25 13.0	4.35S	153.11E	33	5.7b,5.1s		**¶97xii5388**
NEIC	XII	28 03 25 13.1	4.41S	152.95E	33	5.4b,5.2s		
MOS	XII	28 03 25 13.9	4.4S	152.9E	33	6.0b		
EIDC	XII	28 03 25 16.1±.51	4.5S	152.9E	39±3.2	5.0b,4.7s		
HRVD	XII	28 03 25 19.6±.3	4.47S±.03	153.18E±.03	40±2.3			

NEIC Mw5.4(GS), Mw5.4(HRV).

NEIC Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}1.51; $M_{\theta\theta}$−0.09; $M_{\phi\phi}$−1.41; $M_{r\theta}$0.15; $M_{r\theta}$0.02; $M_{\theta\phi}$−0.04. Depth 28km; Principal axes: T 1.52,Plg85°,Azm356°; N −0.11,Plg5°, Azm182°; P −1.41,Plg1°,Azm92°. Best double couple: $M_0$1.5×10^{17}Nm; NP1:ϕ_S176°,δ45°, λ82°. NP2:ϕ_S7°,δ46°,λ98°.

EIDC Error ellipse is semi−major=15.1km semi−minor=9.4km azimuth=103

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c54; Mantle waves: s3,c3; Half duration: 1ŝ3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.54±.04; $M_{\theta\theta}$0.12±.05; $M_{\phi\phi}$−1.65±.07; $M_{r\theta}$0.07±.09; $M_{r\phi}$0.39±.09; $M_{\theta\phi}$−0.02±.04. Principal Axes: T 1.59,Plg83°,Azm289°; N 0.12,Plg2°,Azm181°; P −1.70,Plg7°,Azm91°. Best double couple: $M_0$1.6×10^{17}Nm, NP1:ϕ_S178°,δ38°,λ86°. NP2:ϕ_S3°,δ52°,λ93°.

ISC	**XII**	**29 12 37 37**±2.9	**6.8S**±.10	**149.4E**±.16	**52**±23	**4.1b**,3.6s	**25**	**3-154**
NEIC	XII	29 12 37 34.4	6.81S	149.49E	33	4.4b		**¶97xii5583**
EIDC	XII	29 12 37 37.8±.56	6.7S	149.3E	37±3.8	3.9b,3.4s		

EIDC Error ellipse is semi−major=22.9km semi−minor=13.1km azimuth=108

(193) Solomon Islands.

ISC	**VII**	**02 10 13 13**±5.3	**7.0S**±.16	**154.7E**±.27	**63**±45	**3.7b**	**11**	**8-148**
NEIC	VII	02 10 13 09.2	6.98S	154.77E	33			**¶97vii0223**
EIDC	VII	02 10 13 13.9	7.1S	154.7E	60	3.6b		

NEIC Single network solution.

ISC	**VII**	**02 20 23 25**±1.5	**10.05S**±.098	**161.1E**±.15	**121**±12	**3.7b**	**12**	**1-84**
NEIC	VII	02 20 23 23.9	10.06S	161.13E	115			**¶97vii0297**
EIDC	VII	02 20 23 24.2	10.1S	161.4E	108	3.6b		

NEIC Less reliable solution.

ISC	**VII**	**04 15 39 36**±1.7	**8.7S**±.25	**157.6E**±.32	**33**	**3.6b**,3.4s	**9**	**20-130**
EIDC	VII	04 15 39 33.5	8.6S	157.5E	0	3.8b,3.4s		**¶97vii0585**
NEIC	VII	04 15 39 36.6	8.67S	157.55E	33	3.9b		

NEIC Poor solution.

ISC	**VII**	**04 16 05 18.6**±.64	**7.3S**±.10	**156.0E**±.10	**33**	**3.7b**	**14**	**4-147**
EIDC	VII	04 16 05 14.1	7.5S	156.2E	0	3.8b		**¶97vii0590**
NEIC	VII	04 16 05 18.8	7.24S	155.98E	33	3.8b		

NEIC Less reliable solution.

EIDC	**VII**	**05 01 09 25.8**	**9.7S**	**157.0E**	**0**	**3.7b**		**24-26**
								¶97vii0653
ISC	**VII**	**05 13 29 52.4**±.65	**6.40S**±.041	**154.79E**±.055	**421**±7.2	**4.6b**	**132**	**3-160**
NEIC	VII	05 13 29 51.4	6.38S	154.75E	408	4.6b		**¶97vii0734**
EIDC	VII	05 13 29 52.1	6.4S	154.8E	405	3.9b		
BJI	VII	05 13 29 52.3	6.35S	154.78E	418	4.8b		
EIDC	**VII**	**06 06 14 01.8**	**6.0S**	**156.1E**	**0**	**3.7b**		**25-61**
								¶97vii0849
ISC	**VII**	**07 22 21 10.6**±.70	**6.96S**±.076	**154.8E**±.13	**33**	**4.3b**,3.4s	**28**	**8-148**
EIDC	VII	07 22 21 06.2	7.0S	155.0E	0	4.2b,3.4s		**¶97vii1097**
NEIC	VII	07 22 21 10.3	6.90S	154.75E	33	4.3b		
BJI	VII	07 22 21 16.6	6.62S	153.79E	33	4.9b		

NEIC Less reliable solution.

ISC	**VII**	**08 05 45 56**±1.5	**9.7S**±.88	**163.4E**±.50	**33**	**4.1b**	**7**	**3-97**
EIDC	VII	08 05 46 05.9	9.9S	163.4E	112	3.8b		**¶97vii1143**
ISC	**VII**	**09 13 53 53**±1.1	**9.63S**±.059	**159.75E**±.074	**31**±8.1	**4.6b,4.0s**	**56**	**0-147**
EIDC	VII	09 13 53 49.3	9.6S	159.8E	0	4.4b,4.0s		**¶97vii1347**
BJI	VII	09 13 53 49.9	9.84S	160.06E	28	4.8b		
NEIC	VII	09 13 53 52.8	9.62S	159.73E	33	4.8b		
HNR		Felt I=III MM Honiara						
ISC	**VII**	**14 22 29 47**±2.6	**9.2S**±.39	**161.1E**±.49	**33**	**3.3b**	**8**	**28-143**
EIDC	VII	14 22 29 42.6	9.2S	161.3E	0	3.6b		**¶97vii2215**
EIDC	**VII**	**15 11 27 35.8**	**4.9S**	**156.1E**	**0**	**3.8b**		**4-73**
								¶97vii2298
ISC	**VII**	**16 03 52 41**±1.5	**10.92S**±.088	**161.78E**±.094	**56**±15	**4.3b**	**18**	**2-126**
NEIC	VII	16 03 52 38.6	10.82S	161.77E	33	4.8b		**¶97vii2384**
EIDC	VII	16 03 52 39.3	11.0S	162.0E	31	3.9b,4.5L		
BJI	VII	16 03 52 48.0	10.98S	161.22E	26	4.8b		

NEIC Less reliable solution.

ISC	**VII**	**22 10 16 58.1**±.86	**6.35S**±.028	**154.73E**±.030	**83**±8.0	**5.6b**	**389**	**3-160**
NEIC	VII	22 10 16 54.2	6.23S	154.68E	51	5.6b,5.2s		**¶97vii3360**
BJI	VII	22 10 16 54.7	6.20S	154.83E	54	5.8b,4.9s		
MOS	VII	22 10 16 56.2	6.2S	154.8E	65	6.1b,4.8s		
EIDC	VII	22 10 16 57.6	6.3S	154.8E	71	5.2b,4.9s		
HRVD	VII	22 10 16 59.1±.2	6.40S±.02	154.73E±.02	65±1.3			

NEIC Mw5.5(GS), Mw5.5(HRV).

NEIC Moment tensor solution: s16, scale 10^{17}Nm; M_{rr}1.98; $M_{\theta\theta}$−0.21; $M_{\phi\phi}$−1.77; $M_{r\theta}$−0.24; $M_{r\theta}$0.29; $M_{\theta\phi}$1.02. Depth 39km; Principal axes: T 2.01,Plg84°,Azm213°; N 0.29,Plg3°, Azm333°; P −2.30,Plg5°,Azm64°. Best double couple: $M_0$2.2×10^{17}Nm; NP1:ϕ_S157°,δ40°, λ94°. NP2:ϕ_S331°,δ50°,λ86°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c81; Mantle waves: s3,c4; Half duration: 1ŝ3. Moment tensor: Scale 10^{17}Nm; M_{rr}2.06±.03; $M_{\theta\theta}$−1.08±.06; $M_{\phi\phi}$−0.98±.07; $M_{r\theta}$0.44±.05; $M_{r\phi}$0.05±.05; $M_{\theta\phi}$1.04±.04. Principal Axes: T 2.13,Plg80°,Azm336°; N −0.04,Plg9°,Azm132°; P −2.09,Plg4°,Azm223°. Best double couple: $M_0$2.1×10^{17}Nm, NP1:ϕ_S323°,δ42°,λ104°. NP2:ϕ_S125°,δ50°,λ78°.

ISC	**VII**	**24 09 42 25**±1.7	**7.3S**±.37	**155.6E**±.44	**33**	**3.4b**	**5**	**24-83**
EIDC	VII	24 09 42 21.2	7.3S	155.6E	0	3.6b		**¶97vii3651**
NEIC	VII	24 09 42 25.2	7.30S	155.54E	33	3.3b		

NEIC Poor solution.

ISC	**VII**	**24 14 35 42**±1.1	**8.6S**±.19	**157.8E**±.11	**33**	**3.6b**	**9**	**2-145**
EIDC	VII	24 14 35 38.2	8.5S	157.8E	0	3.7b		**¶97vii3680**
NEIC	VII	24 14 35 41.5	8.53S	157.80E	33	3.9b		

NEIC Less reliable solution.

EIDC	**VII**	**24 15 36 54.3**	**10.6S**	**163.6E**	**0**	**3.9b**		**31-145**
								¶97vii3692
ISC	**VII**	**25 11 26 59**±1.5	**10.57S**±.077	**161.7E**±.12	**139**±12	**4.5b**	**29**	**2-148**
NEIC	VII	25 11 26 55.6	10.49S	161.66E	110	4.6b		**¶97vii3818**
EIDC	VII	25 11 26 56.8	10.6S	161.9E	111	3.8b		

NEIC Less reliable solution.

ISC	**VII**	**27 07 32 15**±2.3	**11.2S**±.19	**163.1E**±.28	**33**	**3.6b**	**7**	**4-145**
EIDC	VII	27 07 32 15.0	11.0S	162.6E	0	3.7b		**¶97vii4078**
ISC	**VII**	**27 16 27 37**±1.2	**7.4S**±.23	**155.6E**±.29	**33**	**3.6b**	**12**	**5-147**
EIDC	VII	27 16 27 32.5	7.5S	155.8E	0	3.7b,3.5L		**¶97vii4134**
NEIC	VII	27 16 27 36.6	7.50S	155.66E	33	3.8b		

NEIC Poor solution.

ISC	**VII**	**28 23 53 26**±2.0	**9.6S**±.21	**160.2E**±.22	**46**±15	**3.7b**	**10**	**0-100**
EIDC	VII	28 23 53 20.8	9.6S	160.4E	0	4.0b		**¶97vii4346**
NEIC	VII	28 23 53 24.4	9.63S	160.37E	33			

NEIC Single network solution.

ISC	**VII**	**30 08 03 50**±1.6	**8.4S**±.11	**158.5E**±.13	**137**±17	**4.0b**	**21**	**2-101**
EIDC	VII	30 08 03 34.7	8.3S	158.7E	0	4.3b		**¶97vii4550**
NEIC	VII	30 08 03 51.1	8.38S	158.47E	150	4.0b		

NEIC Less reliable solution.

ISC	**VII**	**30 23 49 37**±3.2	**9.5S**±.14	**159.2E**±.22	**26**±28	**4.0b**,3.1s	**11**	**1-141**
EIDC	VII	30 23 49 35.7	9.5S	159.1E	0	4.0b,3.1s		**¶97vii4650**
NEIC	VII	30 23 49 38.2	9.48S	159.13E	33			

NEIC Less reliable solution.

ISC	**VII**	**31 15 46 55**±1.6	**8.3S**±.35	**155.6E**±.13	**33**	**3.3b**	**4**	**4-62**
EIDC	VII	31 15 46 51.8	8.4S	155.5E	0	3.3b,3.2L		**¶97vii4754**

ISC Poorly determined

ISC	**VIII**	**03 05 24 46**±2.3	**6.2S**±.37	**155.0E**±.48	**33**	**3.6b**	**4**	**24-83**
EIDC	VIII	03 05 24 41.8	6.3S	155.2E	0	3.8b		**¶97viii0306**

ISC Poorly determined

ISC	**VIII**	**04 06 07 50**±1.8	**7.3S**±.41	**154.7E**±.55	**33**	**3.4b**	**4**	**23-84**
EIDC	VIII	04 06 07 46.3	7.0S	154.5E	0	3.6b		**¶97viii0465**

ISC Poorly determined

ISC	**VIII**	**05 15 57 31**±1.2	**7.4S**±.22	**154.2E**±.28	**33**	**3.5b**	**6**	**23-84**
EIDC	VIII	05 15 57 26.7	7.3S	154.3E	0	3.6b		**¶97viii0687**
NEIC	VIII	05 15 57 30.6	7.36S	154.22E	33	3.4b		

NEIC Poor solution.

ISC	**VIII**	**06 11 08 05**±1.2	**7.09S**±.035	**155.33E**±.042	**49**±11	**5.1b,5.2s**	**243**	**4-160**
NEIC	VIII	06 11 08 03.0	7.04S	155.31E	33	5.3b,5.4s		**¶97viii0788**
BJI	VIII	06 11 08 03.1	6.86S	155.40E	29	5.1b,5.1s		
MOS	VIII	06 11 08 03.9	7.1S	155.3E	33	5.6b,5.1s		
EIDC	VIII	06 11 08 04.3	7.0S	155.3E	27	4.8b,5.1s		
HRVD	VIII	06 11 08 06.7±.2	7.43S±.02	155.30E±.03	32±2.9			

NEIC Mw5.5(HRV).

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c68; Half duration: 1ŝ5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.06±.04; $M_{\theta\theta}$0.55±.05; $M_{\phi\phi}$−0.61±.06; $M_{r\theta}$1.39±.14; $M_{r\phi}$−1.17±.13; $M_{\theta\phi}$1.44±.04. Principal Axes: T 1.81,Plg29°,Azm343°; N 0.90, Plg43°,Azm105°; P −2.71,Plg33°,Azm232°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S19°,δ43°,λ−177°. NP2:ϕ_S286°,δ88°,λ−47°.

ISC	**VIII**	**06 11 27 08**±5.3	**7.6S**±.16	**154.6E**±.19	**223**±52	**3.9b**	**17**	**15-148**
NEIC	VIII	06 11 26 47.7	7.32S	154.89E	33	4.1b		**¶97viii0791**
EIDC	VIII	06 11 27 07.7	7.5S	154.6E	202	3.7b		

NEIC Less reliable solution.

ISC	**VIII**	**06 13 15 23**±1.6	**6.3S**±.22	**154.4E**±.41	**33**	**3.5b**,3.5s	**5**	**24-83**
EIDC	VIII	06 13 15 18.7	6.4S	154.6E	0	3.7b,3.5s		**¶97viii0802**
EIDC	**VIII**	**06 13 47 23.7**	**8.3S**	**155.4E**	**0**	**3.3b**		**23-84**
								¶97viii0804
ISC	**VIII**	**07 15 50 32**±4.9	**10.5S**±.27	**161.3E**±.41	**106**±26	**3.9b**	**11**	**2-143**
NEIC	VIII	07 15 50 29.5	10.66S	161.55E	100	4.2b		**¶97viii0969**
EIDC	VIII	07 15 50 31.5	10.5S	161.4E	96	3.7b		

NEIC Poor solution.

ISC	**VIII**	**18 15 23 29**±1.8	**10.63S**±.088	**161.5E**±.14	**62**±16	**3.9b**	**18**	**2-84**
NEIC	VIII	18 15 23 26.5	10.55S	161.46E	33	3.9b		**¶97viii2691**
EIDC	VIII	18 15 23 52.4	10.8S	161.3E	258	3.3b		

NEIC Less reliable solution.

ISC	**VIII**	**19 10 48 44**±2.2	**8.7S**±.31	**157.8E**±.10	**33**	**4.1b**,3.3s	**13**	**2-145**
EIDC	VIII	19 10 48 42.8	8.8S	157.7E	0	4.4b,3.2s		**¶97viii2796**
NEIC	VIII	19 10 48 45.8	8.77S	157.64E	33	4.2b		

NEIC Poor solution.

EIDC	**VIII**	**20 20 47 36.8**	**7.8S**	**162.7E**	**0**	3.6b		**30-81**
								¶97viii3013
ISC	**VIII**	**23 09 56 46**±2.7	**5.18S**±.080	**154.1E**±.21	**115**±20	**4.1b**	**20**	**2-82**
EIDC	VIII	23 09 56 32.9	5.2S	154.4E	0	4.2b		**¶97viii3384**
NEIC	VIII	23 09 56 43.8	5.23S	154.20E	100	3.8b		

NEIC Less reliable solution.

EIDC	**VIII**	**25 05 53 25.7**	**6.6S**	**155.0E**	**0**	3.5b		**24-28**
								¶97viii3652
ISC	**VIII**	**26 22 48 51**±1.5	**10.3S**±.11	**161.2E**±.14	**118**±13	**4.0b**	**12**	**1-84**
NEIC	VIII	26 22 48 50.1	10.28S	161.21E	107	4.2b		**¶97viii3916**
EIDC	VIII	26 22 48 51.3	10.3S	161.3E	106	3.9b,3.3s		

NEIC Less reliable solution.

ISC	**VIII**	**28 01 20 57**±1.5	**5.2S**±.19	**155.1E**±.37	**33**	**4.0b**	**8**	**21-82**
EIDC	VIII	28 01 20 54.1	5.2S	155.1E	0	4.2b		**¶97viii4069**
ISC	**VIII**	**29 13 22 58**±1.3	**7.08S**±.071	**155.99E**±.077	**117**±12	**4.4b**	**34**	**5-147**
EIDC	VIII	29 13 22 45.2	7.1S	156.2E	0	4.4b,3.7s		**¶97viii4314**
BJI	VIII	29 13 22 57.5	7.10S	156.00E	113	4.4b		
NEIC	VIII	29 13 22 57.5	7.10S	156.02E	113	4.5b		
ISC	**VIII**	**29 23 51 54**±1.2	**10.06S**±.093	**161.21E**±.093	**109**±12	**4.0b**	**16**	**1-119**
NEIC	VIII	29 23 51 53.9	10.04S	161.25E	108	4.3b		**¶97viii4395**
EIDC	VIII	29 23 51 55.2	9.9S	161.2E	107	3.8b,3.5s		
ISC	**VIII**	**30 01 19 32**±2.9	**7.0S**±.25	**160.1E**±.64	**26**	**3.9b**	**6**	**19-90**
EIDC	VIII	30 01 19 33.6	7.0S	160.2E	26	3.8b,3.7L		**¶97viii4404**
ISC	**VIII**	**30 15 54 06.6**±.98	**4.65S**±.047	**154.15E**±.067	**412**±11	**4.3b**	**108**	**2-159**
BJI	VIII	30 15 54 04.7	4.11S	154.45E	377	4.6b		**¶97viii4509**
NEIC	VIII	30 15 54 05.6	4.62S	154.17E	400	4.4b		
EIDC	VIII	30 15 54 08.4	4.7S	154.1E	417	3.8b		
ISC	**IX**	**01 02 48 09**±2.2	**10.7S**±.51	**163.9E**±.53	**33**	**3.5b**	**5**	**19-84**
EIDC	IX	01 02 48 05.5	10.7S	164.0E	0	3.7b,3.9L		**¶97ix0027**
ISC	**IX**	**07 03 27 59**±2.8	**7.1S**±.15	**154.3E**±.17	**261**±27	**3.4b**	**10**	**7-84**
EIDC	IX	07 03 27 36.0	7.7S	155.5E	59	3.5b		**¶97ix1005**
NEIC	IX	07 03 27 39.0	6.69S	154.23E	59	3.0b		

NEIC Poor solution.

ISC	**IX**	**07 12 57 06.3**±.57	**6.02S**±.027	**154.49E**±.032	**416**±6.6	**5.5b**	**505**	**3-160**
MOS	IX	07 12 57 06.1	5.9S	154.6E	406	5.9b		**¶97ix1066**
BJI	IX	07 12 57 06.5	5.61S	154.74E	409	5.4b		
NEIC	IX	07 12 57 06.7	6.02S	154.46E	421	5.6b		
EIDC	IX	07 12 57 06.8	6.0S	154.5E	408	5.1b		
HRVD	IX	07 12 57 10.5±.2	5.94S±.02	154.53E±.02	418±.9			

NEIC Mw5.8(GS), Mw5.8(HRV).

NEIC Moment tensor solution: s21, scale 10^{17}Nm; M_{rr}−3.09; $M_{\theta\theta}$−0.26; $M_{\phi\phi}$3.35; $M_{r\theta}$−3.12; $M_{r\phi}$2.32; $M_{\theta\phi}$−3.02. Depth 411km; Principal axes: T 6.44,Plg21°,Azm236°; N −1.32,Plg22°, Azm137°; P −5.12,Plg59°,Azm5°. Best double couple: $M_0$5.8×10^{17}Nm; NP1:ϕ_S360°,δ31°, λ−43°. NP2:ϕ_S129°,δ69°,λ−114°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c82; Mantle waves: s31,c32; Half duration: 1ŝ9. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.65±.06; $M_{\theta\theta}$−0.60±.10; $M_{\phi\phi}$3.26±.11; $M_{r\theta}$−3.92±.10; $M_{r\phi}$2.61±.09; $M_{\theta\phi}$−2.24±.09. Principal Axes: T 6.26,Plg26°,Azm237°; N −0.51,Plg23°,Azm135°; P −5.75,Plg54°,Azm9°. Best double couple: $M_0$6.0×10^{17}Nm, NP1:ϕ_S7°,δ28°,λ−34°. NP2:ϕ_S128°,δ75°,λ−114°.

EIDC	**IX**	**08 03 52 31.4**	**8.4S**	**155.7E**	**0**	**3.7b**		**¶97ix1168**

EIDC LO CONF Location

ISC	**IX**	**09 12 03 34**±8.8	**4.6S**±.34	**154.4E**±.64	**60**±44	**3.5b**	**7**	**2-30**
EIDC	IX	09 12 03 55.2	5.6S	153.4E	131	3.3b		**¶97ix1372**
EIDC	**IX**	**10 05 09 23.4**	**8.2S**	**158.5E**	**0**	3.3b		**¶97ix1476**
ISC	**IX**	**12 02 48 33**±2.4	**8.7S**±.46	**159.3E**±.44	**152**±30	**3.9b**	**7**	**1-83**
NEIC	IX	12 02 48 32.3	8.63S	159.28E	148	4.4b		**¶97ix1763**
EIDC	IX	12 02 48 33.3	8.5S	159.3E	145	3.7b		

NEIC Poor solution.

Agency		Origin Time		φ	λ	h	Mag	*n*	Δ-Rng
		mo d h m s		°	°	km			°
ISC	**IX**	**12 04 47 52**±2.7		**7.1S**±.13	**155.7E**±.16	**136**±32	**4.3b**	**27**	**5-161**
NEIC	IX	12 04 47 40.2		7.10S	155.85E	33	4.5b		**¶97ix1773**
EIDC	IX	12 04 47 41.4		7.2S	156.0E	34	4.2b,3.5L		
BJI	IX	12 04 47 42.2		6.36S	154.95E	5	5.0b		
NEIC	Less reliable solution.								
ISC	**IX**	**12 05 48 55**±2.4		**7.5S**±.40	**155.3E**±.49	**33**	**3.7b**	**4**	**24-84**
EIDC	IX	12 05 48 56.6		7.6S	155.5E	36	3.5b		**¶97ix1776**
ISC	Poorly determined								
ISC	**IX**	**12 15 08 58**±1.9		**11.12S**±.064	**162.3E**±.10	**47**±16	**4.3b**,4.0s	**45**	**3-151**
NEIC	IX	12 15 08 56.6		11.13S	162.33E	33	4.4b		**¶97ix1828**
BJI	IX	12 15 08 58.4		10.77S	161.68E	28	4.8b		
EIDC	IX	12 15 09 00.1		11.1S	162.4E	49	4.0b,4.0s		
ISC	**IX**	**19 09 22 20**±1.3		**5.8S**±.18	**154.4E**±.23	**33**	**4.0b**	**10**	**21-82**
EIDC	IX	19 09 22 16.6		5.9S	154.7E	0	3.9b		**¶97ix2772**
EIDC	**IX**	**20 23 19 44.4**		**4.7S**	**157.3E**	**0**	**3.6b**		**¶97ix3011**
ISC	**IX**	**21 11 27 16**±1.8		**11.7S**±.15	**161.5E**±.27	**33**	**3.3b**	**5**	**3-86**
EIDC	IX	21 11 27 12.6		11.8S	161.8E	0	3.5b		**¶97ix3092**
ISC	**IX**	**21 12 17 25**±3.2		**11.16S**±.058	**163.09E**±.057	**19**±23	**4.9b,5.3s**	**112**	**4-151**
EIDC	IX	21 12 17 23.7		11.1S	163.2E	0	4.6b,5.2s		**¶97ix3098**
BJI	IX	21 12 17 23.9		12.13S	162.71E	33	5.2b,5.3s		
NEIC	IX	21 12 17 26.7		11.15S	163.08E	33	5.1b,5.3s		
HRVD	IX	21 12 17 29.6±.3		11.22S±.04	163.17E±.03	24±3.9			
NEIC	Mw5.6(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c73; Half duration: 1$\hat{s}$5. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.10±.06; $M_{\theta\theta}$−0.24±.09; $M_{\phi\phi}$0.34±.10; $M_{r\theta}$0.93±.21; $M_{r\phi}$−0.54±.19; $M_{\theta\phi}$2.36±.08. Principal Axes: T 2.45,Plg5°,Azm313°; N 0.30, Plg68°,Azm56°; P −2.74,Plg22°,Azm221°. Best double couple: $M_0$2.6×10^{17}Nm, NP1: ϕ_S359°,δ71°,λ−168°. NP2:ϕ_S265°,δ79°,λ−19°.								
ISC	**IX**	**21 14 03 34**±3.2		**11.2S**±.25	**163.0E**±.32	**33**	**3.9b**	**12**	**3-44**
EIDC	IX	21 14 04 15.0		13.9S	158.5E	0	3.7b		**¶97ix3111**
ISC	**IX**	**22 04 27 36**±1.5		**11.4S**±.17	**163.1E**±.20	**33**	**3.8b**	**6**	**4-85**
EIDC	IX	22 04 27 32.5		11.3S	163.1E	0	4.0b		**¶97ix3209**
ISC	**IX**	**24 10 53 57**±1.0		**6.94S**±.046	**155.76E**±.060	**88**±9.8	**4.7b**	**94**	**5-161**
HRVD	IX	24 10 53 53.3±.1		7.45S±.02	156.19E±.02	67±1.3			**¶97ix3567**
NEIC	IX	24 10 53 56.1		6.93S	155.74E	75	4.9b		
EIDC	IX	24 10 53 59.2		7.0S	155.8E	91	4.4b,4.2s		
BJI	IX	24 10 54 01.8		6.24S	155.05E	75	5.0b		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c14; Half duration: 1$\hat{s}$0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.06±.49; $M_{\theta\theta}$−4.26±1.50; $M_{\phi\phi}$1.20±1.69; $M_{r\theta}$3.43±.53; $M_{r\phi}$0.97±.60; $M_{\theta\phi}$2.82±.71. Principal Axes: T 5.42,Plg52°,Azm312°; N 0.91, Plg33°,Azm97°; P −6.33,Plg17°,Azm198°. Best double couple: $M_0$5.9×10^{16}Nm, NP1: ϕ_S327°,δ40°,λ147°. NP2:ϕ_S83°,δ70°,λ55°.								
NEIC	Mw5.1(HRV).								
ISC	**IX**	**27 16 09 00**±3.5		**7.06S**±.095	**155.0E**±.24	**40**±28	**3.8b**	**16**	**4-148**
EIDC	IX	27 16 08 56.3		7.1S	155.1E	0	4.0b		**¶97ix4404**
NEIC	IX	27 16 08 59.5		7.07S	155.04E	33	3.9b		
NEIC	Less reliable solution.								
ISC	**IX**	**28 03 09 03**±1.4		**10.6S**±.11	**161.8E**±.11	**84**±14	**4.0b**	**24**	**2-152**
EIDC	IX	28 03 08 53.8		10.8S	162.1E	0	4.1b,4.5L		**¶97ix4524**
NEIC	IX	28 03 09 03.5		10.65S	161.76E	84	4.2b		
NEIC	Less reliable solution.								
ISC	**IX**	**28 09 16 58**±2.0		**6.8S**±.26	**155.4E**±.40	**33**	**3.9b**	**9**	**24-127**
EIDC	IX	28 09 16 54.6		6.9S	155.5E	0	4.0b,3.4s		**¶97ix4603**
NEIC	IX	28 09 16 58.3		6.79S	155.39E	33	3.7b		
NEIC	Poor solution.								
ISC	**X**	**02 09 58 22**±2.5		**9.4S**±.22	**159.0E**±.24	**54**±34	**3.9b**,3.2s	**9**	**1-84**
EIDC	X	02 09 58 16.7		9.4S	159.0E	0	4.0b,3.2L		**¶97x0256**
NEIC	X	02 09 58 19.9		9.33S	158.91E	33			
NEIC	Single network solution.								
ISC	**X**	**03 12 32 55**±2.8		**9.4S**±.24	**159.0E**±.24	**51**±36	**3.7b**	**8**	**1-84**
NEIC	X	03 12 32 53.5		9.30S	158.89E	33			**¶97x0462**
EIDC	X	03 12 32 55.9		9.4S	159.0E	44	3.6b,3.9L		
NEIC	Single network solution.								
ISC	**X**	**05 19 18 33**±3.8		**9.4S**±.22	**158.9E**±.28	**41**±47	**3.9b**	**10**	**1-146**
EIDC	X	05 19 18 28.1		9.4S	159.1E	0	4.0b		**¶97x0918**
NEIC	X	05 19 18 31.9		9.37S	158.95E	33	4.3b		
NEIC	Single network solution.								
ISC	**X**	**06 18 35 27**±4.4		**9.29S**±.067	**158.83E**±.068	**9**±27	**5.0b,5.0s**	**74**	**1-146**
EIDC	X	06 18 35 26.8		9.4S	159.0E	0	4.7b,4.0L		**¶97x1099**
MOS	X	06 18 35 29.8		9.3S	158.9E	33	5.6b,4.9s		
BJI	X	06 18 35 30.2		8.92S	158.89E	22	5.1b,5.2s		
NEIC	X	06 18 35 30.3		9.32S	158.82E	33	5.3b,5.0s		
HRVD	X	06 18 35 32.9±.3		9.65S±.03	158.90E±.03	43±3.2			
NEIC	Mw5.6(HRV). Felt.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c77; Half duration: 1$\hat{s}$4. Moment tensor: Scale 10^{17}Nm; M_{rr}0.73±.05; $M_{\theta\theta}$0.61±.08; $M_{\phi\phi}$−1.34±.09; $M_{r\theta}$0.82±.11; $M_{r\phi}$0.26±.09; $M_{\theta\phi}$2.08±.05. Principal Axes: T 2.36,Plg27°,Azm329°; N 0.31, Plg63°,Azm139°; P −2.68,Plg4°,Azm237°. Best double couple: $M_0$2.5×10^{17}Nm, NP1:ϕ_S9°, δ68°,λ163°. NP2:ϕ_S106°,δ74°,λ23°.								
HNR	Felt at Honiara								
ISC	**X**	**06 19 08 04**±2.9		**9.30S**±.051	**158.82E**±.062	**29**±21	**5.2b,4.9s**	**125**	**1-164**
BJI	X	06 19 08 04.4		8.93S	158.89E	22	5.5b,5.1s		**¶97x1104**
MOS	X	06 19 08 04.9		9.3S	158.8E	33	5.6b		
NEIC	X	06 19 08 05.1		9.32S	158.76E	33	5.3b,4.9s		
HRVD	X	06 19 08 06.4±.4		9.57S±.04	158.76E±.05	40±5.8			
EIDC	X	06 19 08 07.1		9.5S	159.0E	45	4.6b		
NEIC	Mw5.4(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c51; Half duration: 1$\hat{s}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}0.50±.05; $M_{\theta\theta}$0.17±.07; $M_{\phi\phi}$−0.67±.09; $M_{r\theta}$0.15±.11; $M_{r\phi}$0.12±.10; $M_{\theta\phi}$1.43±.05. Principal Axes: T 1.29,Plg14°,Azm323°; N 0.45, Plg76°,Azm143°; P −1.74,Plg0°,Azm53°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S99°, δ80°,λ10°. NP2:ϕ_S7°,δ80°,λ170°.								
ISC	**X**	**06 20 52 45.0**±.17		**9.26S**±.036	**158.67E**±.033	**33**	**5.5b,5.8s**	**361**	**1-164**
BJI	X	06 20 52 43.7		8.74S	158.72E	13	5.5b,5.5s		**¶97x1116**
EIDC	X	06 20 52 44.2		9.4S	159.1E	26	4.9b,4.5L		
NEIC	X	06 20 52 44.6		9.30S	158.69E	33	5.7b,5.9s		
MOS	X	06 20 52 45.0		9.2S	158.7E	33	5.8b,5.5s		
HRVD	X	06 20 52 50.1±.1		9.56S±.01	159.10E±.01	32±.7			
NEIC	Mw6.1(HRV), Mw6.0(GS). Felt.								
NEIC	Felt at Honiara.								
NEIC	Moment tensor solution: s20, scale 10^{18}Nm; M_{rr}0.12; $M_{\theta\theta}$0.33; $M_{\phi\phi}$−0.45; $M_{r\theta}$0.68; $M_{r\phi}$0.15; $M_{\theta\phi}$1.05. Depth 20km; Principal axes: T 1.39,Plg27°,Azm328°; N −0.15,Plg59°,Azm119°; P −1.24,Plg13°,Azm232°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S7°,δ61°,λ169°. NP2: ϕ_S102°,δ80°,λ29°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c119; Mantle waves: s54,c97; Half duration: 2$\hat{s}$8. Moment tensor: Scale 10^{18}Nm; M_{rr}0.73±.01; $M_{\theta\theta}$−0.07±.01; $M_{\phi\phi}$−0.66±.01; $M_{r\theta}$0.41±.03; $M_{r\phi}$0.25±.03; $M_{\theta\phi}$1.48±.01. Principal Axes: T 1.45,Plg33°,Azm321°; N 0.42,Plg57°,Azm138°; P −1.88,Plg2°,Azm230°. Best double couple: $M_0$1.7×10^{18}Nm, NP1:ϕ_S1°,δ66°,λ156°. NP2:ϕ_S101°,δ68°,λ26°.								
ISC	**X**	**06 21 14 04.5**±.62		**9.29S**±.067	**158.8E**±.11	**33**	**4.7b,**5.4s	**30**	**1-132**
BJI	X	06 21 14 03.4		8.91S	158.69E	14	5.0b		**¶97x1119**
NEIC	X	06 21 14 03.4		9.29S	158.93E	33	4.8b		
EIDC	X	06 21 14 05.6		9.6S	159.1E	44	4.3b,3.7L		
NEIC	Felt, Less reliable solution.								
HNR	Felt at Honiara								
ISC	**X**	**07 10 20 35**±2.6		**9.3S**±.16	**159.0E**±.19	**44**±32	**3.9b**	**14**	**1-84**
EIDC	X	07 10 20 31.1		9.3S	158.9E	0	4.1b,4.1L		**¶97x1227**
NEIC	X	07 10 20 33.8		9.31S	158.93E	33	3.9b		
EIDC	**X**	**07 14 59 05.1**		**10.2S**	**160.3E**	**91**	**3.2b**		**¶97x1269**
ISC	**X**	**10 18 45 49**±3.7		**9.29S**±.041	**158.75E**±.036	**12**±22	**5.4b,5.6s**	**286**	**1-165**
EIDC	X	10 18 45 48.8		9.3S	158.8E	0	5.2b,5.6s		**¶97x1789**
BJI	X	10 18 45 51.9		8.76S	158.86E	20	5.5b,5.6s		
NEIC	X	10 18 45 52.4		9.32S	158.73E	33	5.4b,5.7s		
MOS	X	10 18 45 52.9		9.2S	158.7E	33	5.6b,5.6s		
HRVD	X	10 18 45 56.2±.1		9.62S±.02	158.99E±.01	25			
NEIC	Mw6.0(HRV), Mw5.8(GS)								
NEIC	Moment tensor solution: s14, scale 10^{17}Nm; M_{rr}4.55; $M_{\theta\theta}$−3.10; $M_{\phi\phi}$−1.45; $M_{r\theta}$2.48; $M_{r\phi}$1.81; $M_{\theta\phi}$4.19. Depth 24km; Principal axes: T 6.54,Plg57°,Azm315°; N 0.07,Plg33°, Azm125°; P −6.61,Plg4°,Azm218°. Best double couple: $M_0$6.6×10^{17}Nm; NP1:ϕ_S338°,δ50°, λ135°. NP2:ϕ_S101°,δ57°,λ50°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s50,c97; Mantle waves: s9,c14; Half duration: 2$\hat{s}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}4.38±.08; $M_{\theta\theta}$−0.56±.11; $M_{\phi\phi}$−3.82±.12; $M_{r\theta}$5.22±.20; $M_{r\phi}$1.50±.24; $M_{\theta\phi}$7.23±.09. Principal Axes: T 9.93,Plg43°,Azm327°; N 0.02,Plg45°,Azm129°; P −9.95,Plg9°,Azm228°. Best double couple: $M_0$9.9×10^{17}Nm, NP1:ϕ_S358°,δ53°,λ153°. NP2:ϕ_S105°,δ68°,λ40°.								
HNR	Felt I=VI MM Honiara								
EIDC	**X**	**10 19 52 36.8**		**9.0S**	**160.4E**	**0**	**3.8b**		**¶97x1794**
ISC	**X**	**11 00 54 13**±1.8		**4.8S**±.10	**154.1E**±.21	**308**±13	**4.2b**	**22**	**2-150**
NEIC	X	11 00 54 11.5		4.77S	154.20E	300	4.3b		**¶97x1821**
EIDC	X	11 00 54 16.5		4.8S	154.1E	327	3.7b		
NEIC	Less reliable solution.								
ISC	**X**	**11 18 10 21**±1.8		**11.6S**±.16	**161.8E**±.25	**33**	**3.4b**	**6**	**3-85**
EIDC	X	11 18 10 16.8		11.8S	162.0E	0	3.6b,3.4L		**¶97x1920**
ISC	**X**	**12 18 11 02.0**±.98		**9.2S**±.14	**159.2E**±.16	**566**±14	**4.0b**	**19**	**1-146**
NEIC	X	12 18 11 01.4		9.22S	159.29E	564	4.3b		**¶97x2083**
EIDC	X	12 18 11 02.7		9.3S	159.5E	568	3.1b		
NEIC	Less reliable solution.								
ISC	**X**	**14 17 39 55.0**±.59		**9.26S**±.086	**158.97E**±.085	**33**	**4.2b**	**22**	**1-131**
EIDC	X	14 17 39 52.3		9.3S	158.9E	0	4.4b,4.2L		**¶97x2458**
BJI	X	14 17 39 55.2		9.30S	158.90E	33	4.7b		
NEIC	X	14 17 39 55.2		9.26S	158.95E	33	4.1b		
NEIC	Less reliable solution.								
ISC	**X**	**16 13 26 17**±2.4		**9.4S**±.22	**159.1E**±.25	**53**±34	**4.0b,3.7s**	**9**	**1-84**
NEIC	X	16 13 26 15.4		9.34S	158.96E	33			**¶97x2844**
EIDC	X	16 13 26 17.6		9.5S	159.1E	40	3.9b,3.7s		
NEIC	Single network solution.								
ISC	**X**	**16 13 59 52**±1.3		**7.5S**±.19	**158.3E**±.14	**33**	**3.6b**	**6**	**3-83**
EIDC	X	16 13 59 49.9		7.0S	157.8E	0	3.9b		**¶97x2847**
ISC	**X**	**17 10 59 46**±1.2		**9.4S**±.19	**159.0E**±.10	**33**	**3.9b**	**7**	**1-65**
EIDC	X	17 10 59 46.2		9.5S	158.7E	0	4.1b		**¶97x2968**
ISC	**X**	**20 19 20 28**±4.8		**4.4S**±.36	**154.0E**±.42	**135**±26	**3.8b**	**9**	**2-44**
EIDC	X	20 19 19 57.6		3.0S	155.4E	0	4.0b,4.0L		**¶97x3549**
NEIC	X	20 19 20 28.2		4.46S	153.99E	135	3.8b		
NEIC	Poor solution.								
ISC	**X**	**21 00 21 38.2**±.96		**9.3S**±.12	**157.9E**±.15	**33**	**4.0b,**3.7s	**15**	**2-98**
EIDC	X	21 00 21 36.3		9.1S	157.7E	0	4.1b,3.7s		**¶97x3580**
NEIC	X	21 00 21 38.5		9.30S	157.86E	33			
NEIC	Less reliable solution.								
EIDC	**X**	**22 23 58 07.0**		**10.5S**	**163.5E**	**0**	**3.7b**		**¶97x3900**
ISC	**X**	**24 11 52 25**±1.2		**7.3S**±.21	**156.2E**±.11	**33**	**4.1b,**3.3s	**9**	**4-85**
EIDC	X	24 11 52 20.8		7.2S	156.2E	0	4.1b,3.3s		**¶97x4159**
NEIC	X	24 11 52 24.6		7.32S	156.20E	33	4.3b		
NEIC	Less reliable solution.								
ISC	**X**	**25 08 46 54**±4.1		**9.1S**±.84	**158.3E**±.18	**33**	**3.3b**	**4**	**2-27**
EIDC	X	25 08 46 51.0		9.2S	158.3E	0	3.7b		**¶97x4300**
ISC	Poorly determined								
EIDC	**X**	**26 15 09 56.2**		**10.3S**	**160.3E**	**78**	3.2b		**¶97x4481**
ISC	**X**	**28 01 57 20**±1.6		**7.5S**±.26	**154.6E**±.39	**33**	**3.5b**	**6**	**23-84**
EIDC	X	28 01 57 16.8		7.5S	154.7E	0	3.8b		**¶97x4685**
ISC	**X**	**29 05 34 48**±3.2		**10.6S**±.15	**161.6E**±.24	**98**±24	**3.9b**	**13**	**2-84**
NEIC	X	29 05 34 39.4		10.87S	162.09E	33	4.3b		**¶97x4859**
EIDC	X	29 05 34 41.7		10.7S	161.8E	31	3.9b,4.7L		
NEIC	Poor solution.								
EIDC	**X**	**30 13 10 10.2**		**9.8S**	**160.1E**	**0**	**3.4b**		**¶97x5042**
HNR	Felt at Gold Ridge								
ISC	**XI**	**01 04 06 18**±1.7		**6.94S**±.091	**155.85E**±.081	**111**±16	**4.4b**	**46**	**5-161**
NEIC	XI	01 04 06 17.0		6.94S	155.81E	100	4.5b		**¶97xi0028**
EIDC	XI	01 04 06 18.1		6.9S	155.9E	98	4.1b		
EIDC	**XI**	**03 12 17 17.3**		**7.6S**	**159.8E**	**0**	**3.9b,**4.0L		**¶97xi0462**
ISC	**XI**	**03 12 37 24**±1.3		**4.1S**±.14	**154.1E**±.13	**432**±12	**3.9b**	**22**	**2-151**
EIDC	XI	03 12 37 23.7		4.0S	153.8E	410	3.3b		**¶97xi0463**
NEIC	XI	03 12 37 23.9		4.16S	154.14E	432	3.9b		
NEIC	Less reliable solution.								
ISC	**XI**	**03 21 23 56**±1.5		**5.2S**±.27	**154.1E**±.32	**33**	**3.6b**	**7**	**21-82**
EIDC	XI	03 21 23 52.9		5.1S	154.1E	0	3.7b		**¶97xi0523**
NEIC	XI	03 21 23 56.3		5.20S	154.05E	33	3.8b		
NEIC	Poor solution.								
ISC	**XI**	**04 00 37 00**±2.0		**6.4S**±.32	**154.3E**±.42	**33**	**3.4b**	**6**	**22-83**
EIDC	XI	04 00 36 56.6		6.5S	154.5E	0	3.5b		**¶97xi0545**
ISC	**XI**	**04 04 25 42**±1.5		**8.0S**±.21	**159.0E**±.19	**33**	**3.3b**	**4**	**2-83**
EIDC	XI	04 04 25 44.3		8.1S	159.1E	39	3.3b,3.1L		**¶97xi0577**
ISC	Poorly determined								
EIDC	**XI**	**05 14 26 19.9**		**5.9S**	**154.1E**	**0**	**3.6b**		**¶97xi0818**
ISC	**XI**	**09 13 18 39**±1.6		**5.63S**±.062	**154.4E**±.12	**161**±13	**4.1b**	**31**	**3-149**
BJI	XI	09 13 18 38.4		5.55S	154.50E	155	4.6b		**¶97xi1450**
NEIC	XI	09 13 18 38.7		5.63S	154.45E	161	4.3b		
EIDC	XI	09 13 18 39.6		5.7S	154.7E	159	3.8b		
EIDC	**XI**	**12 15 32 35.2**		**6.3S**	**154.5E**	**0**	**3.6b**		**¶97xi2005**
ISC	**XI**	**13 05 33 58**±1.3		**6.38S**±.037	**154.78E**±.033	**62**±12	**5.6b**	**329**	**3-160**
BJI	XI	13 05 33 48.5		6.74S	155.67E	33	5.6b,4.9s		**¶97xi2082**
NEIC	XI	13 05 33 54.0		6.34S	154.82E	33	5.6b,5.3s		
MOS	XI	13 05 33 54.8		6.3S	154.9E	33	5.8b,4.9s		
EIDC	XI	13 05 33 55.9		6.4S	155.0E	37	5.3b,4.3L		
HRVD	XI	13 05 33 58.7±.2		6.65S±.03	154.89E±.03	55			
NEIC	Mw5.5(GS), Mw5.5(HRV).								
NEIC	Moment tensor solution: s10, scale 10^{17}Nm; M_{rr}1.60; $M_{\theta\theta}$−0.18; $M_{\phi\phi}$−1.42; $M_{r\theta}$−0.14; $M_{r\phi}$−0.22; $M_{\theta\phi}$0.71. Depth 41km; Principal axes: T 1.64,Plg81°,Azm140°; N 0.11,Plg8°, Azm336°; P −1.75,Plg2°,Azm246°. Best double couple: $M_0$1.7×10^{17}Nm; NP1:ϕ_S327°,δ43°, λ78°. NP2:ϕ_S164°,δ48°,λ101°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c51; Mantle								

waves: s3,c4; Half duration: 1ŝ3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.92±.05; $M_{\theta\theta}$−0.60±.08; $M_{\phi\phi}$−1.31±.10; $M_{r\theta}$0.31±.09; $M_{r\phi}$−0.22±.10; $M_{\theta\phi}$0.75±.06. Principal Axes: T 1.96,Plg83°,Azm22°; N −0.14,Plg4°,Azm147°; P −1.82,Plg5°,Azm237°. Best double couple: $M_0$1.9×10^{17}Nm, NP1:ϕ_S332°,δ40°,λ96°. NP2:ϕ_S144°,δ51°,λ85°.

ISC	**XI**	**13 08 00 45**±3.4	**6.4S**±.13	**154.9E**±.14	**83**±31	**3.9b**	**13**	**8-85**	
NEIC	XI	13 08 00 39.0	6.31S	155.01E	33	4.1b			**¶97xi2096**
EIDC	XI	13 08 00 45.2	6.5S	155.0E	74	3.8b,4.7L			
NEIC	Less reliable solution.								
ISC	**XI**	**14 07 22 09**±2.0	**6.83S**±.047	**155.28E**±.066	**78**±17	**5.0b**	**147**	**5-161**	
EIDC	XI	14 07 22 03.8	6.8S	155.4E	20	4.8b,4.3s			**¶97xi2257**
NEIC	XI	14 07 22 04.3	6.78S	155.34E	33	5.2b,4.7s			
MOS	XI	14 07 22 04.5	6.8S	155.4E	33	5.6b			
BJI	XI	14 07 22 04.9	6.62S	155.43E	37	5.2b,4.8s			
HRVD	XI	14 07 22 07.5±.1	7.07S±.01	155.19E±.01	36±1.3				
NEIC	Mw5.3(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s12,c17; Half duration: 1ŝ0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.34±1.30; $M_{\theta\theta}$−5.44±.99; $M_{\phi\phi}$2.11±1.83; $M_{r\theta}$−6.01±3.07; $M_{r\phi}$−1.11±2.05; $M_{\theta\phi}$4.74±1.31. Principal Axes: T 8.25,Plg45°,Azm134°; N 1.49,Plg37°,Azm272°; P −9.73,Plg22°,Azm20°. Best double couple: $M_0$9.0×10^{16}Nm, NP1: ϕ_S155°,δ40°,λ158°. NP2:ϕ_S262°,δ76°,λ52°.								
ISC	**XI**	**14 09 36 27**±2.5	**6.83S**±.059	**155.28E**±.078	**69**±23	**4.6b**	**96**	**5-160**	
NEIC	XI	14 09 36 22.9	6.78S	155.36E	33	4.9b			**¶97xi2267**
EIDC	XI	14 09 36 25.1	6.8S	155.5E	40	4.4b,3.9L			
BJI	XI	14 09 36 26.2	6.19S	155.18E	33	4.8b,5.1s			
ISC	**XI**	**17 05 31 25**±1.1	**9.55S**±.054	**160.74E**±.054	**112**±9.8	**4.9b**	**142**	**1-165**	
NEIC	XI	17 05 31 23.1	9.56S	160.79E	101	5.0b			**¶97xi2745**
BJI	XI	17 05 31 23.9	9.39S	160.81E	104	5.0b			
EIDC	XI	17 05 31 24.2	9.6S	161.0E	98	4.5b			
ISC	**XI**	**19 01 25 53**±1.6	**10.3S**±.41	**159.5E**±.50	**33**	**3.4b**	**5**	**1-85**	
EIDC	XI	19 01 25 50.0	10.4S	159.5E	0	3.6b			**¶97xi3100**
ISC	**XI**	**20 05 59 06**±2.2	**6.29S**±.091	**154.6E**±.13	**78**±19	**3.9b**	**15**	**3-99**	
EIDC	XI	20 05 58 57.1	6.3S	154.8E	0	4.1b			**¶97xi3404**
NEIC	XI	20 05 59 00.8	6.22S	154.72E	33	3.9b			
NEIC	Less reliable solution.								
ISC	**XI**	**21 07 06 48**±1.7	**6.9S**±.25	**156.0E**±.36	**33**	**3.6b**,3.3s	**5**	**25-83**	
EIDC	XI	21 07 06 44.3	6.9S	156.1E	0	3.7b,3.9s			**¶97xi3614**
ISC	**XI**	**21 07 22 03**±4.4	**9.5S**±.52	**159.6E**±.54	**24**±42	**3.5b**	**5**	**0-84**	
EIDC	XI	21 07 22 01.2	9.4S	159.5E	0	3.7b			**¶97xi3616**
ISC	Poorly determined								
ISC	**XI**	**22 05 51 56**±2.2	**6.4S**±.12	**155.07E**±.085	**35**±21	**4.6b**,3.6s	**22**	**6-148**	
NEIC	XI	22 05 51 56.0	6.39S	155.07E	33	4.7b			**¶97xi3814**
EIDC	XI	22 05 51 57.8	6.4S	155.1E	31	4.2b,3.6s			
ISC	**XI**	**22 07 55 54**±1.2	**6.88S**±.048	**155.28E**±.054	**91**±11	**4.7b**	**91**	**4-161**	
BJI	XI	22 07 55 28.2	6.80S	159.30E	36	5.0b			**¶97xi3834**
NEIC	XI	22 07 55 48.2	6.78S	155.34E	36	4.8b,4.6s			
EIDC	XI	22 07 55 49.1	6.9S	155.5E	33	4.6b,4.4s			
EIDC	**XI**	**23 07 43 44.3**	**6.6S**	**154.6E**	**0**	**3.8b**			**¶97xi4065**
EIDC	**XI**	**24 18 43 57.8**	**5.4S**	**155.1E**	**0**	**3.8b**,4.1L			**¶97xi4361**
ISC	**XI**	**26 18 18 42**±1.1	**6.36S**±.085	**155.06E**±.078	**131**±11	**4.2b**	**19**	**4-98**	
EIDC	XI	26 18 18 40.8	6.4S	155.2E	105	4.1b			**¶97xi4730**
NEIC	XI	26 18 18 41.9	6.36S	155.07E	131	4.9b			
ISC	**XI**	**27 13 06 33**±1.6	**10.79S**±.091	**162.2E**±.11	**117**±14	**4.4b**	**32**	**3-149**	
NEIC	XI	27 13 06 32.8	10.80S	162.22E	118	4.6b			**¶97xi4863**
EIDC	XI	27 13 06 53.1	10.5S	161.5E	289	3.8b			
NEIC	Less reliable solution.								
ISC	**XI**	**30 15 03 40**±1.9	**10.15S**±.082	**161.1E**±.12	**34**±17	**4.3b**,3.8s	**17**	**1-96**	
EIDC	XI	30 15 03 37.0	10.1S	161.1E	0	4.3b,4.0L			**¶97xi5422**
BJI	XI	30 15 03 40.1	10.20S	161.10E	33	4.6b			
NEIC	XI	30 15 03 40.1	10.15S	161.06E	33	4.8b			
ISC	**XII**	**04 13 21 59**±2.3	**11.1S**±.11	**163.8E**±.14	**40**±20	**4.1b**,3.6s	**16**	**4-145**	
NEIC	XII	04 13 21 58.6	11.10S	163.80E	33	4.2b			**¶97xii0620**
EIDC	XII	04 13 22 06.9±2.95	10.8S	163.4E	69±23.8	3.9b,3.6s			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=33.4km semi−minor=18.0km azimuth=134								
ISC	**XII**	**04 16 20 52**±1.5	**7.3S**±.22	**157.0E**±.16	**117**±22	**3.7b**	**6**	**4-63**	
EIDC	XII	04 16 20 32.3±5.41	7.2S	158.1E	0	3.9b,3.9L			**¶97xii0649**
EIDC	Error ellipse is semi−major=112.2km semi−minor=47.5km azimuth=104								
ISC	**XII**	**04 23 23 32**±1.5	**11.0S**±.13	**160.6E**±.20	**33**	**3.8b**	**6**	**2-35**	
EIDC	XII	04 23 23 26.1±8.32	10.9S	161.0E	0	4.1b			**¶97xii0719**
NEIC	XII	04 23 23 31.7	10.96S	160.65E	33				
EIDC	Error ellipse is semi−major=144.0km semi−minor=14.7km azimuth=72								
NEIC	Less reliable solution.								
ISC	**XII**	**07 12 51 57**±1.3	**7.8S**±.19	**158.3E**±.13	**33**	**3.5b**	**7**	**2-116**	
EIDC	XII	07 12 51 53.2±1.40	7.7S	158.3E	0	3.8b,4.0L			**¶97xii1701**
NEIC	XII	07 12 51 56.7	7.81S	158.27E	33				
EIDC	Error ellipse is semi−major=35.3km semi−minor=27.4km azimuth=143								
NEIC	Less reliable solution.								
ISC	**XII**	**08 13 16 31**±2.7	**5.43S**±.085	**154.3E**±.25	**140**±20	**4.1b**	**14**	**2-83**	
NEIC	XII	08 13 16 32.5	5.44S	154.19E	150	4.5b			**¶97xii1931**
EIDC	XII	08 13 16 34.4±3.15	5.6S	154.4E	158±27.7	3.8b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=42.3km semi−minor=15.0km azimuth=112								
ISC	**XII**	**09 02 17 41**±3.1	**10.78S**±.081	**163.7E**±.18	**97**±23	**4.7b**	**34**	**4-149**	
NEIC	XII	09 02 17 41.7	10.76S	163.67E	110	5.0b			**¶97xii2077**
BJI	XII	09 02 17 42.7	9.91S	163.84E	89	4.9b,5.7s			
EIDC	XII	09 02 17 42.7±5.32	10.8S	163.7E	102±43.3	4.3b,4.1s			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=36.6km semi−minor=20.1km azimuth=99								
EIDC	**XII**	**11 07 43 44.3**±2.60	**6.6S**	**154.3E**	**0**	**3.6b**		**3-83**	
									¶97xii2518
EIDC	Error ellipse is semi−major=114.7km semi−minor=26.6km azimuth=125								
ISC	**XII**	**13 22 51 20.0**±.92	**9.8S**±.23	**157.9E**±.14	**100**	**3.6b**	**7**	**2-144**	
EIDC	XII	13 22 51 08.8±1.64	9.7S	158.1E	0	3.9b			**¶97xii3032**
EIDC	Error ellipse is semi−major=54.9km semi−minor=28.8km azimuth=124								
ISC	**XII**	**14 17 02 24**±1.2	**10.15S**±.047	**161.05E**±.060	**75**±11	**4.7b**	**88**	**1-148**	
BJI	XII	14 17 02 23.1	9.64S	161.22E	54	5.0b,4.8s			**¶97xii3173**
NEIC	XII	14 17 02 23.3	10.13S	161.00E	66	5.0b			
EIDC	XII	14 17 02 24.4±.62	10.2S	161.1E	63±4.3	4.4b,4.1s			
EIDC	Error ellipse is semi−major=17.4km semi−minor=14.0km azimuth=119								
HNR	Felt I=II MM at Honiara								
ISC	**XII**	**18 20 54 16**±1.3	**9.83S**±.066	**160.21E**±.096	**44**±11	**4.3b**	**33**	**0-165**	
EIDC	XII	18 20 54 10.9±.73	9.9S	160.3E	0	4.3b			**¶97xii3826**
BJI	XII	18 20 54 13.6	9.56S	160.38E	25	4.8b			
NEIC	XII	18 20 54 14.6	9.76S	160.17E	33	4.3b			
EIDC	Error ellipse is semi−major=24.4km semi−minor=16.0km azimuth=115								
NEIC	Less reliable solution.								
HNR	Felt I=I MM at Honiara								
ISC	**XII**	**18 21 01 40**±1.0	**9.9S**±.12	**160.4E**±.17	**33**	**3.7b**	**8**	**1-96**	
EIDC	XII	18 21 01 36.2±1.15	9.7S	160.4E	0	3.8b			**¶97xii3827**
NEIC	XII	18 21 01 39.6	9.75S	160.28E	33	4.0b			
EIDC	Error ellipse is semi−major=40.5km semi−minor=24.3km azimuth=124								
NEIC	Poor solution.								
HNR	Felt I=I MM at Honiara								
ISC	**XII**	**18 21 03 20**±1.3	**9.82S**±.044	**160.14E**±.054	**34**±11	**5.0b,4.6s**	**114**	**0-165**	
EIDC	XII	18 21 03 16.0±.58	9.8S	160.3E	0	4.9b,5.1L			**¶97xii3828**
BJI	XII	18 21 03 19.3	9.64S	160.50E	34	5.1b,5.1s			
NEIC	XII	18 21 03 19.9	9.80S	160.13E	33	5.1b,4.5s			
MOS	XII	18 21 03 21.7	9.8S	160.1E	48	5.3b			
EIDC	Error ellipse is semi−major=21.9km semi−minor=14.9km azimuth=108								
HNR	Felt I=III MM at Honiara								
ISC	**XII**	**19 16 03 45**±1.7	**10.1S**±.13	**161.1E**±.14	**82**±15	**3.8b**	**14**	**1-84**	
NEIC	XII	19 16 03 44.3	10.14S	161.17E	77	4.0b			**¶97xii3992**
EIDC	XII	19 16 03 45.6±1.18	10.2S	161.2E	74±9.4	3.8b,2.6s			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=22.5km semi−minor=11.9km azimuth=41								
ISC	**XII**	**24 02 05 30**±2.0	**7.88S**±.086	**158.77E**±.075	**52**±19	**4.4b,3.9s**	**56**	**2-145**	
BJI	XII	24 02 05 30.1	7.31S	158.52E	21	4.9b			**¶97xii4688**
NEIC	XII	24 02 05 30.2	7.83S	158.73E	50	4.3b			
EIDC	XII	24 02 05 30.7±.64	8.1S	159.0E	53±4.6	4.1b,3.9s			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=21.2km semi−minor=13.0km azimuth=115								
ISC	**XII**	**24 12 30 12**±1.2	**6.41S**±.045	**154.89E**±.050	**76**±11	**4.7b**	**106**	**6-160**	
BJI	XII	24 12 30 08.4	5.68S	154.94E	18	5.1b			**¶97xii4757**
NEIC	XII	24 12 30 09.1	6.38S	154.96E	49	4.8b,4.6s			
EIDC	XII	24 12 30 10.3±.44	6.4S	155.1E	49±3.2	4.4b,4.3s			
EIDC	Error ellipse is semi−major=18.1km semi−minor=10.9km azimuth=103								
ISC	**XII**	**24 21 20 19**±3.4	**10.1S**±.25	**161.1E**±.36	**121**±26	**3.4b**	**9**	**1-96**	
EIDC	XII	24 21 20 27.7	10.0S	161.0E	185±229.4	3.2b,4.1L			**¶97xii4826**
EIDC	Origin time error = 24.16Error ellipse is semi−major=107.1km semi−minor=69.4km azimuth=125								
ISC	**XII**	**26 13 05 34**±1.5	**6.09S**±.071	**154.23E**±.069	**83**±14	**4.1b**	**38**	**7-99**	
BJI	XII	26 13 05 31.6	6.10S	154.30E	60	4.9b			**¶97xii5125**
NEIC	XII	26 13 05 31.6	6.09S	154.31E	60	4.1b			
EIDC	XII	26 13 05 32.3±1.16	6.0S	154.3E	50±7.5	3.9b,3.7s			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=29.6km semi−minor=14.7km azimuth=102								
ISC	**XII**	**29 01 41 02**±3.6	**8.7S**±.27	**158.6E**±.21	**51**±36	**3.7b**,3.4s	**7**	**1-84**	
EIDC	XII	29 01 40 56.4±1.40	8.6S	158.7E	0	3.9b,3.4s			**¶97xii5526**
EIDC	Error ellipse is semi−major=50.5km semi−minor=27.7km azimuth=133								
ISC	**XII**	**29 09 53 49**±1.8	**7.3S**±.41	**154.4E**±.54	**33**	**3.6b**	**4**	**23-84**	
EIDC	XII	29 09 53 45.4±1.74	7.2S	154.3E	0	3.8b			**¶97xii5570**
ISC	Poorly determined								
EIDC	Error ellipse is semi−major=92.4km semi−minor=27.9km azimuth=126								
ISC	**XII**	**29 20 35 53**±1.7	**6.37S**±.066	**154.90E**±.072	**74**±17	**4.3b**	**53**	**6-160**	
BJI	XII	29 20 35 45.7	5.60S	155.03E	4	4.7b			**¶97xii5636**
NEIC	XII	29 20 35 48.0	6.32S	155.01E	33	4.4b			
EIDC	XII	29 20 35 52.1±.56	6.4S	155.0E	53±4.0	4.1b,3.6s			
EIDC	Error ellipse is semi−major=19.2km semi−minor=12.6km azimuth=99								
ISC	**XII**	**30 09 58 38.6**±.34	**9.58S**±.046	**157.50E**±.067	**33**	**4.8b,4.3s**	**84**	**2-146**	
EIDC	XII	30 09 58 34.6±.63	9.6S	157.6E	0	4.8b,4.3s			**¶97xii5718**
BJI	XII	30 09 58 37.5	8.92S	157.47E	7	5.0b,4.7s			
NEIC	XII	30 09 58 38.1	9.57S	157.58E	33	5.0b			
EIDC	Error ellipse is semi−major=19.9km semi−minor=14.6km azimuth=117								
ISC	**XII**	**31 22 25 02**±4.0	**4.6S**±.24	**154.5E**±.52	**33**	**3.8b**	**8**	**17-59**	
EIDC	XII	31 22 24 59.9±6.35	4.6S	154.5E	0	3.7b			**¶97xii5986**
NEIC	XII	31 22 25 02.3	4.59S	154.51E	33	3.7b			
EIDC	Error ellipse is semi−major=141.7km semi−minor=38.8km azimuth=82								
NEIC	Poor solution.								

(194) D'Entrecasteaux Islands region.

ISC	**VII**	**31 11 29 15**±1.8	**8.8S**±.38	**153.3E**±.49	**33**	**3.2b**	**4**	**21-86**	
EIDC	VII	31 11 29 11.3	8.8S	153.3E	0	3.3b			**¶97vii4720**
ISC	Poorly determined								
ISC	**VIII**	**06 01 55 12**±1.3	**9.6S**±.18	**154.5E**±.21	**33**	**4.0b**,3.7s	**8**	**22-86**	
EIDC	VIII	06 01 55 07.3	9.7S	154.7E	0	3.9b,3.8s			**¶97viii0749**
NEIC	VIII	06 01 55 11.3	9.59S	154.49E	33	3.9b			
NEIC	Poor solution.								
ISC	**VIII**	**11 19 09 59**±1.3	**10.0S**±.13	**154.5E**±.20	**33**	**3.9b**,3.4s	**11**	**13-86**	
NEIC	VIII	11 19 09 59.2	9.96S	154.47E	33	4.0b			**¶97viii1614**
EIDC	VIII	11 19 10 03.3	10.0S	154.5E	52	3.7b,3.4L			
NEIC	Less reliable solution.								
EIDC	**IX**	**10 16 37 21.0**	**9.9S**	**155.5E**	**0**	**3.9b**			**¶97ix1547**
ISC	**IX**	**25 17 13 37**±2.6	**10.1S**±.26	**151.8E**±.50	**33**	**3.3b**	**4**	**20-76**	
EIDC	IX	25 17 13 32.8	10.2S	152.2E	0	3.5b,3.2L			**¶97ix3766**
ISC	Poorly determined								
ISC	**X**	**10 11 30 34**±2.4	**9.5S**±.27	**154.6E**±.14	**33**	**3.9b**,3.5s	**11**	**13-81**	
EIDC	X	10 11 30 12.7	8.1S	155.8E	0	4.1b,3.5s			**¶97x1743**
ISC	**X**	**10 11 34 39**±7.5	**9.1S**±.58	**155.8E**±.76	**33**	**3.5b**	**4**	**14-26**	
EIDC	X	10 11 34 34.0	8.8S	155.8E	0	3.7b,3.6L			**¶97x1744**
ISC	Poorly determined								
ISC	**XI**	**25 09 58 09**±6.6	**11.6S**±.34	**151.5E**±.62	**33**	3.4b	**4**	**5-22**	
EIDC	XI	25 09 57 59.5	11.2S	152.2E	0	3.2b,3.6L			**¶97xi4484**
ISC	Poorly determined								
ISC	**XI**	**25 11 25 38**±1.6	**9.84S**±.088	**154.24E**±.071	**38**±17	**4.4b**,3.9s	**21**	**6-146**	
EIDC	XI	25 11 25 34.1	9.9S	154.3E	0	4.5b,3.8s			**¶97xi4495**
BJI	XI	25 11 25 37.4	9.95S	154.35E	40				
NEIC	XI	25 11 25 37.6	9.85S	154.24E	33	4.3b			
EIDC	**XI**	**25 15 17 15.6**	**9.1S**	**154.5E**	**0**	**3.5b**			**¶97xi4538**
EIDC	**XII**	**02 07 11 28.1**	**9.6S**	**154.3E**	**0**	**3.8b**		**22-25**	
									¶97xii0203
EIDC	Origin time error = 13.24Error ellipse is semi−major=214.5km semi−minor=81.5km azimuth=26								

(195) Solomon Islands region.

EIDC	**VII**	**12 02 00 35.6**	**11.6S**	**156.4E**	**0**	**3.4b**		**23-87**	
									¶97vii1761
ISC	**VIII**	**12 19 51 43**±1.8	**12.0S**±.27	**157.9E**±.33	**33**	**3.4b**,2.9s	**6**	**24-87**	
EIDC	VIII	12 19 51 39.2	12.1S	158.0E	0	3.6b,2.9s			**¶97viii1798**
EIDC	**IX**	**21 13 53 05.6**	**13.3S**	**158.6E**	**0**	**3.4b**			**¶97ix3109**
EIDC	**XII**	**30 18 03 31.6**	**10.4S**	**156.9E**	**0**	**3.9b**		**18-26**	
									¶97xii5768
EIDC	Origin time error = 13.85Error ellipse is semi−major=225.3km semi−minor=86.7km azimuth=38								

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °

SEISMIC REGION 16.
NEW GUINEA.

(196) West Irian region.

ISC	**VII**	**01 06 55 10.5**±.95	**0.7S**±.10	**135.4E**±.36	**33**	**4.2b**	**13**	**19-151**
EIDC	VII	01 06 55 07.0	0.6S	135.4E	0	4.3b,3.5s		¶97vii0041
NEIC	VII	01 06 55 10.5	0.68S	135.40E	33	4.2b		
NEIC	Poor solution.							
EIDC	**VII**	**03 09 50 04.4**	**1.2S**	**136.6E**	**0**	**3.8b**,3.7L		**19-85**
								¶97vii0389
EIDC	**VII**	**03 10 54 33.9**	**1.1S**	**140.1E**	**0**	3.3b,3.0L		**1-84**
								¶97vii0398
EIDC	**VII**	**03 23 54 41.3**	**4.2S**	**132.1E**	**0**	3.5L,4.2b		**16-29**
								¶97vii0470
ISC	**VII**	**07 13 52 25.9**±.88	**3.8S**±.10	**131.3E**±.10	**33**	**4.2b**	**20**	**2-152**
EIDC	VII	07 13 52 22.6	3.7S	131.7E	0	4.1b,3.9L		¶97vii1052
NEIC	VII	07 13 52 25.6	3.72S	131.32E	33	4.2b		
NEIC	Less reliable solution.							
EIDC	**VII**	**07 14 51 13.2**	**1.3S**	**134.0E**	**0**	3.4b,3.8L		**18-87**
								¶97vii1059
DJA	**VII**	**08 11 40 31.0**	**0.8S**	**139.5E**	**33**	5.8L,5.4D		**2-23**
ISC	DJA magnitude values may be overestimated							¶97vii1181
ISC	**VII**	**08 14 11 02.3**±.84	**1.32S**±.094	**134.7E**±.29	**33**	**3.6b**	**9**	**19-86**
EIDC	VII	08 14 10 59.3	1.3S	134.7E	0	3.6b,3.8L		¶97vii1199
NEIC	VII	08 14 11 02.3	1.31S	134.69E	33	3.8b		
NEIC	Less reliable solution.							
DJA	**VII**	**09 11 53 25.7**	**1.7S**	**140.7E**	**33**	5.3D,3.0L		**1-1**
ISC	DJA magnitude values may be overestimated							¶97vii1330
DJA	**VII**	**09 12 54 20.3**	**1.0S**	**140.3E**	**33**	5.4D,3.6L		**2-2**
ISC	DJA magnitude values may be overestimated							¶97vii1338
ISC	**VII**	**10 01 43 01**±2.9	**1.34S**±.087	**132.9E**±.14	**63**±32	**4.2b**	**16**	**8-89**
NEIC	VII	10 01 42 57.8	1.28S	132.83E	33	4.3b		¶97vii1429
EIDC	VII	10 01 43 13.1	1.5S	132.8E	174	3.7b,3.5s		
NEIC	Less reliable solution.							
ISC	**VII**	**10 02 18 51**±8.4	**1.3S**±.76	**132.5E**±.41	**33**	4.1b	**6**	**18-32**
EIDC	VII	10 02 18 43.2	0.8S	132.4E	0	3.9b,3.2s		¶97vii1431
ISC	**VII**	**10 04 01 38.1**±.89	**1.08S**±.038	**132.92E**±.035	**47**±9.2	**4.8b,4.7s**	**146**	**8-163**
EIDC	VII	10 04 01 33.6	1.1S	132.8E	0	4.5b,4.6s		¶97vii1441
HRVD	VII	10 04 01 36.0±.6	1.01S±.07	133.05E±.06	30±6.5			
BJI	VII	10 04 01 36.1	1.12S	132.81E	33	5.0b,4.8s		
NEIC	VII	10 04 01 36.8	1.17S	132.88E	33	5.0b,4.7s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c40; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.03±.05; $M_{\theta\theta}$−0.32±.06; $M_{\phi\phi}$0.35±.08; $M_{r\theta}$0.73±.17; $M_{r\phi}$0.32±.17; $M_{\theta\phi}$1.03±.05. Principal Axes: T 1.43,Plg26°,Azm310°; N −0.20, Plg55°,Azm84°; P −1.23,Plg22°,Azm209°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S349°,δ55°,λ177°. NP2:ϕ_S80°,δ87°,λ35°.							
NEIC	Mw5.4(HRV).							
ISC	**VII**	**12 01 51 17.6**±.86	**1.3S**±.10	**136.82E**±.084	**33**	**4.0b**,3.2s	**16**	**4-150**
NEIC	VII	12 01 51 19.3	1.42S	136.65E	33	4.3b		¶97vii1759
EIDC	VII	12 01 51 31.9	1.7S	136.6E	124	3.7b,3.0s		
NEIC	Less reliable solution.							
DJA	**VII**	**12 17 51 07.4**	**1.5S**	**140.1E**	**33**	5.4D,3.6L		**1-1**
ISC	DJA magnitude values may be overestimated							¶97vii1848
EIDC	**VII**	**14 18 52 22.2**	**3.5S**	**134.5E**	**0**	**3.6b**,3.5L		**4-75**
								¶97vii2190
ISC	**VII**	**15 00 37 15.3**±.95	**1.5S**±.10	**134.1E**±.16	**33**	**4.3b**	**9**	**3-87**
NEIC	VII	15 00 37 15.2	1.47S	134.14E	33	4.1b		¶97vii2225
EIDC	VII	15 00 37 17.2	1.5S	134.7E	28	4.1b,4.5L		
NEIC	Less reliable solution.							
ISC	**VII**	**15 03 30 26.9**±.35	**3.67S**±.045	**131.45E**±.058	**33**	**4.7b,4.2s**	**58**	**3-161**
EIDC	VII	15 03 30 24.3	3.6S	131.5E	0	4.7b,3.8s		¶97vii2248
BJI	VII	15 03 30 25.5	3.80S	131.33E	32	5.0b		
NEIC	VII	15 03 30 27.0	3.69S	131.47E	33	4.9b		
DJA	**VII**	**15 09 34 06.1**	**1.6S**	**140.9E**	**33**	5.4D,4.4L		**1-1**
ISC	DJA magnitude values may be overestimated							¶97vii2283
DJA	**VII**	**16 09 40 23.6**	**0.9S**	**140.7E**	**33**	5.4D,4.5L		**2-2**
ISC	DJA magnitude values may be overestimated							¶97vii2415
DJA	**VII**	**16 16 27 16.1**	**1.8S**	**140.5E**	**33**	5.4D		**1-1**
ISC	DJA magnitude values may be overestimated							¶97vii2465
DJA	**VII**	**17 02 05 52.6**	**0.4S**	**138.5E**	**33**	3.7L		**3-3**
								¶97vii2531
DJA	**VII**	**17 03 01 24.1**	**1.8S**	**140.2E**	**33**	3.9L		**1-1**
								¶97vii2537
EIDC	**VII**	**19 04 40 33.1**	**0.7N**	**136.5E**	**0**	**3.4b**		**21-62**
								¶97vii2830
ISC	**VII**	**19 09 40 11.2**±.66	**2.66S**±.093	**134.5E**±.17	**33**	**4.1b**	**14**	**4-151**
EIDC	VII	19 09 40 08.9	2.6S	134.8E	0	4.2b,4.5L		¶97vii2853
NEIC	VII	19 09 40 10.9	2.66S	134.48E	33			
BJI	VII	19 09 40 11.2	2.61S	134.75E	37	4.4b		
NEIC	Less reliable solution.							
ISC	**VII**	**19 11 07 22.2**±.79	**2.89S**±.098	**134.3E**±.18	**33**	**3.9b**	**9**	**4-88**
EIDC	VII	19 11 07 19.0	2.8S	134.5E	0	4.0b,3.5L		¶97vii2861
NEIC	VII	19 11 07 22.1	2.90S	134.33E	33			
NEIC	Less reliable solution.							
ISC	**VII**	**20 17 27 03.4**±.68	**4.37S**±.077	**134.7E**±.16	**33**	**3.9b**	**14**	**13-116**
NEIC	VII	20 17 27 03.5	4.39S	134.68E	33	4.1b		¶97vii3125
BJI	VII	20 17 27 05.0	4.01S	135.20E	44			
EIDC	VII	20 17 27 14.6	4.4S	134.9E	118	3.6b		
NEIC	Less reliable solution.							
ISC	**VII**	**20 18 12 58**±1.4	**3.8S**±.16	**134.9E**±.40	**33**	3.5b	**5**	**16-66**
EIDC	VII	20 18 12 55.3	3.8S	134.9E	0	4.1L,3.6b		¶97vii3130
EIDC	**VII**	**22 09 57 27.7**	**1.9N**	**131.6E**	**0**	**3.5b**		**22-35**
								¶97vii3355
ISC	**VII**	**23 16 07 36.7**±.68	**4.96S**±.066	**134.7E**±.17	**33**	**3.6b**	**15**	**8-90**
EIDC	VII	23 16 07 34.3	4.9S	135.0E	0	3.7b,4.1L		¶97vii3552
NEIC	VII	23 16 07 36.6	4.98S	134.69E	33	3.9b		
NEIC	Less reliable solution.							
ISC	**VII**	**26 15 53 56**±2.3	**0.98S**±.038	**137.22E**±.047	**26**±17	**4.8b,4.4s**	**93**	**4-150**
EIDC	VII	26 15 53 53.6	1.0S	137.1E	0	4.6b,4.0s		¶97vii3982
NEIC	VII	26 15 53 57.1	0.97S	137.26E	33	5.0b,4.5s		
MOS	VII	26 15 53 57.4	0.9S	137.3E	33	5.3b		
DJA	VII	26 15 53 57.6	0.4S	137.5E	76	5.5L,5.2D		
BJI	VII	26 15 54 07.1	0.90N	137.30E	33	4.9b,5.3s		
EIDC	**VII**	**28 10 30 37.7**	**2.2N**	**138.9E**	**0**	**3.1b**		**23-81**
								¶97vii4250
DJA	**VII**	**29 02 29 16.0**	**1.7S**	**140.6E**	**100**	5.5D,3.7L		**1-1**
ISC	DJA magnitude values may be overestimated							¶97vii4367
ISC	**VIII**	**03 01 54 25**±1.7	**0.58S**±.095	**135.95E**±.099	**50**±18	**4.3b,3.4s**	**16**	**5-151**
NEIC	VIII	03 01 54 24.4	0.64S	135.95E	33	4.6b		¶97viii0283
EIDC	VIII	03 01 54 34.3	0.7S	136.1E	128	3.9b,3.4s		
NEIC	Less reliable solution.							
ISC	**VIII**	**03 05 49 33.6**±.82	**0.5S**±.10	**135.5E**±.13	**33**	**4.1b**,3.1s	**14**	**4-151**
EIDC	VIII	03 05 49 31.7	0.6S	135.7E	0	4.1b,3.1s		¶97viii0310
NEIC	VIII	03 05 49 33.3	0.50S	135.26E	33			
NEIC	Poor solution.							
ISC	**VIII**	**03 19 09 07**±2.2	**0.59S**±.039	**135.76E**±.043	**21**±17	**4.8b,4.5s**	**86**	**5-151**
EIDC	VIII	03 19 09 05.0	0.6S	135.6E	0	4.6b,4.4s		¶97viii0402
NEIC	VIII	03 19 09 07.9	0.56S	135.80E	33	5.0b,5.3s		
BJI	VIII	03 19 09 08.0	0.54S	135.79E	33	4.9b,4.7s		
HRVD	VIII	03 19 09 09.4±.6	0.73S±.05	135.65E±.06	30±4.1			
DJA	VIII	03 19 09 10.0	0.3S	136.1E	100	5.5L,5.2b		
NEIC	Mw5.2(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c47; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.20±.31; $M_{\theta\theta}$−4.16±.28; $M_{\phi\phi}$−1.03±.46; $M_{r\theta}$−4.76±.94; $M_{r\phi}$2.67±.70; $M_{\theta\phi}$2.16±.33. Principal Axes: T 7.53,Plg67°,Azm211°; N 0.06, Plg1°,Azm118°; P −7.59,Plg23°,Azm28°. Best double couple: $M_0$7.6×10^{16}Nm, NP1:ϕ_S115°, δ22°,λ87°. NP2:ϕ_S299°,δ68°,λ91°.							
DJA	**VIII**	**03 22 27 59.8**	**1.8S**	**140.9E**	**33**	5.2D,2.9L		**1-1**
ISC	DJA magnitude calculations may be overestimated							¶97viii0420
ISC	**VIII**	**05 10 45 14**±1.8	**5.7S**±.19	**135.4E**±.21	**33**	3.8b	**10**	**6-27**
EIDC	VIII	05 10 45 04.9	5.1S	135.2E	0	3.9L,4.2b		¶97viii0653
NEIC	VIII	05 10 45 13.9	5.70S	135.39E	33	3.9b		
NEIC	Poor solution.							
EIDC	**VIII**	**06 17 15 07.0**	**4.3S**	**136.7E**	**0**	4.0b,3.1L		**16-118**
								¶97viii0824
DJA	**VIII**	**07 02 44 24.7**	**1.7S**	**140.9E**	**33**	5.5D,4.4L		**1-98**
ISC	DJA magnitude calculations may be overestimated							¶97viii0876
DJA	**VIII**	**07 02 58 25.6**	**1.4S**	**140.9E**	**33**	5.5D,4.4L		**1-1**
ISC	DJA magnitude calculations may be overestimated							¶97viii0878
EIDC	**VIII**	**08 14 23 13.1**	**2.4S**	**131.7E**	**0**	**3.9b**,4.0L		**10-39**
								¶97viii1125
DJA	**VIII**	**09 17 07 47.5**	**1.3S**	**140.2E**	**33**	5.5D,4.0L		**1-1**
ISC	DJA magnitude calculations may be overestimated							¶97viii1291
EIDC	**VIII**	**11 12 27 41.4**	**0.6S**	**137.1E**	**0**	3.8b,3.5L		**19-31**
								¶97viii1560
EIDC	**VIII**	**12 07 08 33.8**	**1.7S**	**136.8E**	**0**	**3.6b**,3.5L		**18-86**
								¶97viii1694
DJA	**VIII**	**15 09 45 10.8**	**1.2S**	**140.5E**	**33**	5.4D,3.9L		**1-1**
ISC	DJA magnitude calculations may be overestimated							¶97viii2195
ISC	**VIII**	**15 20 15 07**±1.6	**0.7S**±.19	**139.9E**±.42	**33**	**3.5b**	**6**	**20-84**
EIDC	VIII	15 20 15 03.5	0.5S	139.7E	0	3.5b		¶97viii2266
DJA	**VIII**	**16 03 40 56.5**	**1.2S**	**140.5E**	**33**	5.3D,3.9L		**1-1**
ISC	DJA magnitude calculations may be overestimated							¶97viii2311
DJA	**VIII**	**16 05 40 02.3**	**1.5S**	**140.5E**	**33**	5.3D,3.9L		**1-1**
ISC	DJA magnitude calculations may be overestimated							¶97viii2322
DJA	**VIII**	**18 09 19 17.1**	**1.9S**	**140.3E**	**4**	5.0D		**1-1**
ISC	DJA magnitude calculations may be overestimated							¶97viii2653
ISC	**VIII**	**23 21 38 52**±5.3	**0.29S**±.061	**137.1E**±.15	**38**±51	**4.4b,3.6s**	**36**	**20-150**
BJI	VIII	23 21 38 51.8	0.24S	137.18E	36	4.8b		¶97viii3455
NEIC	VIII	23 21 38 51.9	0.29S	137.03E	34	4.6b		
EIDC	VIII	23 21 38 54.2	0.2S	137.2E	33	4.1b,3.6s		
ISC	**VIII**	**26 02 55 49**±1.1	**1.5S**±.11	**134.7E**±.12	**33**	**4.3b**	**14**	**3-150**
EIDC	VIII	26 02 55 46.7	1.5S	135.2E	0	4.2b,5.0L		¶97viii3775
EIDC	**VIII**	**27 22 25 16.9**	**2.9S**	**134.9E**	**0**	3.8b,4.0L		**17-30**
								¶97viii4046
EIDC	**VIII**	**28 06 59 46.9**	**1.2S**	**135.0E**	**0**	3.7b,3.5L		**19-31**
								¶97viii4099
DJA	**IX**	**01 08 53 14.0**	**0.4N**	**140.5E**	**33**	5.5D,5.0L		¶97ix0076
EIDC	**IX**	**01 13 43 05.4**	**3.8S**	**135.7E**	**0**	3.3L,3.4b		¶97ix0108
DJA	**IX**	**02 20 11 00.0**	**0.9S**	**139.8E**	**33**	3.8L		¶97ix0319
EIDC	**IX**	**03 21 30 48.3**	**1.6S**	**135.1E**	**0**	3.4b,3.8L		¶97ix0495
ISC	**IX**	**06 10 54 20**±1.8	**2.7S**±.16	**131.7E**±.90	**33**	4.8b	**5**	**17-102**
EIDC	IX	06 10 54 06.5	2.9S	127.6E	0	4.0b,3.5L		¶97ix0904
EIDC	LO CONF Location							
EIDC	**IX**	**07 09 01 24.1**	**2.0S**	**140.7E**	**0**	3.5b,4.0L		¶97ix1035
EIDC	**IX**	**08 14 00 50.7**	**4.8S**	**136.0E**	**0**	3.4L,3.9b		¶97ix1230
EIDC	**IX**	**10 00 54 11.7**	**1.5S**	**134.8E**	**0**	**3.8b**,4.1L		¶97ix1462
EIDC	**IX**	**11 17 02 46.6**	**0.2S**	**130.3E**	**0**	**3.1b**		¶97ix1709
EIDC	**IX**	**12 08 57 40.9**	**3.1S**	**134.5E**	**0**	3.7b,3.9L		¶97ix1792
EIDC	**IX**	**13 04 03 35.5**	**2.2S**	**131.0E**	**0**	3.5b,3.4L		¶97ix1915
ISC	**IX**	**13 13 16 44**±4.3	**3.0S**±.37	**136.0E**±.49	**33**	3.8b	**6**	**5-29**
EIDC	IX	13 13 16 31.8	2.0S	135.4E	0	3.9b,3.7L		¶97ix1976
EIDC	LO CONF Location							
DJA	**IX**	**16 15 56 26.1**	**1.6S**	**140.6E**	**33**	5.3D,4.5L		¶97ix2405
DJA	**IX**	**17 10 07 45.6**	**1.6S**	**140.8E**	**33**	5.3D,3.9L		¶97ix2499
EIDC	**IX**	**17 17 03 06.1**	**0.3N**	**130.2E**	**45**	**2.9b**		¶97ix2536
EIDC	**IX**	**17 23 03 21.3**	**0.8S**	**133.4E**	**0**	**3.7b**,3.5s		¶97ix2572
DJA	**IX**	**19 02 45 45.4**	**2.0S**	**140.4E**	**100**	5.5D		¶97ix2742
EIDC	**IX**	**19 22 40 45.4**	**0.8S**	**130.5E**	**0**	3.9b,3.6L		¶97ix2861
DJA	**IX**	**20 12 19 33.5**	**1.6S**	**141.0E**	**33**	5.3D,3.7L		¶97ix2941
EIDC	**IX**	**21 09 52 02.8**	**1.8N**	**130.1E**	**0**	**3.5b**		¶97ix3077
EIDC	**IX**	**21 21 31 13.5**	**1.5S**	**135.3E**	**0**	3.6b,3.2L		¶97ix3166
DJA	**IX**	**22 13 16 51.5**	**0.9S**	**139.9E**	**33**	5.4D,3.9L		¶97ix3284
EIDC	**IX**	**25 06 10 42.8**	**1.4S**	**134.5E**	**0**	3.5b,3.2L		¶97ix3689
ISC	**IX**	**25 08 53 22.9**±.97	**4.2S**±.10	**136.3E**±.11	**33**	**4.0b**	**13**	**5-88**
EIDC	IX	25 08 53 19.3	3.9S	136.5E	0	4.0b,4.4L		¶97ix3712
NEIC	IX	25 08 53 22.6	4.23S	136.25E	33	4.2b		
NEIC	Less reliable solution.							
ISC	**X**	**03 22 08 50**±4.2	**4.02S**±.054	**136.36E**±.058	**4**±28	**4.2b**,3.7s	**28**	**4-88**
EIDC	X	03 22 08 51.2	3.9S	136.7E	0	4.1b,4.3L		¶97x0532
NEIC	X	03 22 08 54.2	3.97S	136.41E	33	4.6b		
ISC	**X**	**04 14 49 48**±1.5	**1.1S**±.15	**136.9E**±.11	**33**	**3.8b**	**12**	**4-85**
EIDC	X	04 14 49 44.9	0.9S	136.9E	0	3.8b,4.1L		¶97x0664
DJA	**X**	**07 03 12 24.5**	**0.1S**	**140.3E**	**33**	5.5D,**4.1L**		¶97x1166
ISC	**X**	**07 21 50 24**±2.6	**3.41S**±.033	**131.01E**±.036	**13**±16	**5.1b,4.7s**	**131**	**3-161**
EIDC	X	07 21 50 23.8	3.4S	130.9E	0	4.9b,4.7s		¶97x1306
NEIC	X	07 21 50 26.3	3.42S	131.02E	33	5.3b,4.7s		
MOS	X	07 21 50 26.6	3.4S	131.0E	33	5.7b		
HRVD	X	07 21 50 26.8±.6	3.21S±.05	130.84E±.07	29±4.7			
BJI	X	07 21 50 27.3	3.70S	131.41E	64	5.2b,4.8s		
NEIC	Mw5.3(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c44; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.91±.51; $M_{\theta\theta}$−4.34±.51; $M_{\phi\phi}$−3.57±.79; $M_{r\theta}$−2.68±1.67; $M_{r\phi}$7.15±1.45; $M_{\theta\phi}$4.15±.52. Principal Axes: T 11.4,Plg65°,Azm264°; N −0.6,Plg13°,Azm145°; P −10.8,Plg21°,Azm49°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S117°,δ27°,λ60°. NP2:ϕ_S330°,δ67°,λ104°.							

ISC X 07 22 23 47±2.3 **3.44S**±.054 **131.09E**±.051 **32**±19 **4.3b** **32 3-78**
NEIC X 07 22 23 46.7 3.45S 131.13E 33 4.5b **¶97x1312**
EIDC X 07 22 23 47.6 3.4S 131.0E 18 4.1b
ISC X 08 10 41 02±4.7 **3.45S**±.079 **131.1E**±.21 **31**±38 **3.8b** **13 3-90**
NEIC X 08 10 41 02.6 3.45S 131.11E 33 4.1b **¶97x1395**
EIDC X 08 10 41 04.8 3.5S 131.1E 33 3.7b,3.8L
NEIC Less reliable solution.
DJA X 08 23 33 00.7 1.9S 141.0E 15 5.3D,4.1L **¶97x1492**
EIDC X 09 00 57 15.0 0.6S 138.8E 0 3.8b,4.0L **¶97x1502**
EIDC LO CONF Location
DJA X 10 19 16 20.3 2.0S 140.6E 91 5.4D **¶97x1791**
ISC X 10 22 19 01±3.8 **1.80S**±.042 **134.46E**±.055 **11**±24 **4.7b,4.4s** **69 6-151**
BJI X 10 22 19 03.8 1.80S 134.50E 33 4.7b,4.8s **¶97x1807**
NEIC X 10 22 19 03.8 1.85S 134.49E 33 4.9b,4.2s
HRVD X 10 22 19 05.4±.7 1.85S 134.49E 15
EIDC X 10 22 19 07.8 1.8S 134.5E 47 4.1b,4.5s
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c16; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.14±1.11; $M_{\theta\theta}$0.26±1.05; $M_{\phi\phi}$−0.12±1.37; $M_{r\theta}$4.87±2.07; $M_{r\phi}$−0.59±2.47; $M_{\theta\phi}$7.57±1.07. Principal Axes: T 8.81,Plg21°, Azm321°; N 0.40,Plg57°,Azm87°; P −9.22,Plg24°,Azm221°. Best double couple: $M_0$9.0×10^{16}Nm, NP1:ϕ_S2°,δ57°,λ−178°. NP2:ϕ_S270°,δ88°,λ−33°.
ISC X 11 05 27 45±2.0 **0.6S**±.21 **135.8E**±.11 **33** **4.4b** **9 5-32**
NEIC X 11 05 27 44.0 0.35S 135.84E 33 4.0b **¶97x1854**
EIDC X 11 05 27 49.0 1.1S 136.9E 0 4.4b,4.3L
NEIC Poor solution.
EIDC LO CONF Location
DJA X 12 06 42 36.8 1.3S 140.2E 33 5.3D,3.7L **¶97x2000**
EIDC X 13 02 45 34.7 0.4S 137.1E 0 3.8b,3.5L **¶97x2147**
EIDC LO CONF Location
ISC X 14 21 46 50±1.1 **1.4S**±.16 **130.2E**±.62 **0** **4.1b** **7 11-88**
EIDC X 14 21 46 52.2 1.3S 130.6E 0 3.9b,4.1L **¶97x2503**
ISC X 15 22 09 23±1.4 **2.8S**±.17 **132.5E**±.44 **33** **3.6b** **8 17-64**
EIDC X 15 22 09 20.7 2.8S 132.4E 0 4.0b,4.1L **¶97x2732**
DJA X 18 20 42 16.1 1.9S 140.9E 100 5.5D **¶97x3230**
DJA X 18 23 31 40.7 0.8S 140.6E 33 5.4D,3.6L **¶97x3255**
DJA X 20 13 23 14.1 1.0S 140.5E 33 4.4L **¶97x3503**
ISC X 24 17 37 19.8±.76 **2.35S**±.083 **134.2E**±.14 **33** **4.0b,3.3s** **12 3-87**
EIDC X 24 17 37 16.8 2.2S 134.2E 0 4.0b,3.3s **¶97x4204**
NEIC X 24 17 37 19.7 2.37S 134.23E 33 4.0b
NEIC Less reliable solution.
ISC X 25 00 16 21±10 **3.2S**±.16 **134.4E**±.20 **2**±63 4.0b **10 6-102**
NEIC X 25 00 16 25.2 3.30S 134.46E 33 3.7b **¶97x4242**
EIDC X 25 00 16 26.8 3.2S 134.6E 29 3.7b,3.9L
NEIC Less reliable solution.
ISC X 25 06 33 04.7±.59 **3.32S**±.074 **134.59E**±.097 **33** **4.1b** **16 6-88**
EIDC X 25 06 33 01.9 3.2S 134.7E 0 4.2b,4.2L **¶97x4286**
NEIC X 25 06 33 04.9 3.26S 134.59E 33 4.4b
NEIC Less reliable solution.
ISC X 26 05 52 35±2.4 **2.1S**±.20 **136.3E**±.41 **33** **3.9b** **5 18-64**
EIDC X 26 05 52 29.1 1.8S 136.4E 0 3.7b,3.4L **¶97x4423**
ISC X 27 14 27 02±3.8 **1.0S**±.33 **137.0E**±.69 **33** **4.0b** **7 19-42**
EIDC X 27 14 27 00.1 1.0S 136.9E 0 4.0b,3.9L **¶97x4617**
NEIC X 27 14 27 02.9 1.05S 136.92E 33 3.8b
NEIC Poor solution.
ISC X 29 12 07 59.4±.92 **1.0S**±.11 **131.7E**±.16 **33** **4.0b** **9 0-87**
NEIC X 29 12 07 59.6 1.01S 131.73E 33 4.1b **¶97x4905**
EIDC X 29 12 08 04.8 1.0S 132.1E 68 3.6b,3.8L
NEIC Less reliable solution.
EIDC XI 03 06 29 34.5 0.9N 137.9E 0 4.0b **¶97xi0422**
ISC XI 03 16 40 43±1.3 **2.3S**±.13 **136.7E**±.51 **33** **3.9b** **7 11-39**
EIDC XI 03 16 40 39.6 2.3S 137.6E 0 4.0b,4.0L **¶97xi0495**
ISC XI 05 17 43 35±2.4 **1.7S**±.18 **136.4E**±.40 **33** **3.9b** **7 12-30**
EIDC XI 05 17 43 27.2 1.2S 136.4E 0 3.9b,4.0L **¶97xi0834**
ISC XI 12 01 42 24.3±.75 **0.75S**±.090 **136.5E**±.13 **33** **4.0b** **17 5-150**
EIDC XI 12 01 42 21.3 0.7S 136.2E 0 4.1b,4.2L **¶97xi1915**
NEIC XI 12 01 42 24.5 0.76S 136.58E 33 4.1b
NEIC Less reliable solution.
ISC XI 14 15 16 14.9±.37 **2.98S**±.048 **134.21E**±.075 **33** **4.5b**,3.5s **37 4-151**
EIDC XI 14 15 16 12.4 2.9S 134.2E 0 4.5b,3.5s **¶97xi2307**
NEIC XI 14 15 16 15.2 2.93S 134.30E 33 4.6b
BJI XI 14 15 16 16.6 2.31S 133.77E 5 4.9b
ISC XI 15 04 42 31±1.4 **2.1S**±.13 **134.1E**±.19 **33** **4.0b** **13 3-58**
EIDC XI 15 04 42 29.1 2.1S 133.9E 0 4.1b,4.2L **¶97xi2417**
NEIC XI 15 04 42 31.6 2.11S 134.06E 33 4.0b
NEIC Less reliable solution.
ISC XI 17 11 22 04±1.7 **0.5S**±.17 **134.6E**±.42 **33** **4.0b** **7 12-86**
EIDC XI 17 11 22 00.7 0.5S 134.9E 0 3.8b,4.2L **¶97xi2787**
ISC XI 19 02 48 20±2.9 **2.9S**±.16 **133.8E**±.22 **143**±27 3.5b **11 3-88**
EIDC XI 19 02 48 05.9 2.5S 134.0E 0 3.8b,3.6s **¶97xi3117**
NEIC XI 19 02 48 08.8 2.55S 134.10E 33 4.1b
NEIC Less reliable solution.
ISC XI 20 02 17 38±1.6 **1.2S**±.16 **136.7E**±.17 **33** **3.9b** **8 4-85**
EIDC XI 20 02 17 36.0 1.4S 138.0E 0 3.9b,4.0L **¶97xi3372**
NEIC XI 20 02 17 37.8 1.23S 136.72E 33 4.1b
NEIC Poor solution.
ISC XI 22 17 54 41.2±.71 **0.82N**±.069 **133.1E**±.15 **33** **4.4b**,4.3s **18 2-85**
EIDC XI 22 17 54 39.5 0.7N 132.6E 0 4.3b **¶97xi3929**
BJI XI 22 17 54 39.9 0.89N 133.17E 30 4.7b
NEIC XI 22 17 54 41.0 0.86N 133.06E 33 4.7b
NEIC Less reliable solution.
EIDC XII 03 15 07 42.5±2.57 **1.3S 135.2E 0** **3.7b,**3.9L **18-86**
¶97xii0449
EIDC Error ellipse is semi−major=178.9km semi−minor=26.9km azimuth=98
EIDC XII 03 21 59 42.3 1.3N 130.3E 0 **3.4b** **21-35**
¶97xii0509
EIDC Origin time error = 15.25Error ellipse is semi−major=277.0km semi−minor=209.7km azimuth=112
ISC XII 05 05 42 33.8±.72 **3.74S**±.084 **135.4E**±.10 **33** **3.9b** **13 5-149**
EIDC XII 05 05 42 31.3±.85 3.8S 135.2E 0 4.4L,4.0b **¶97xii0788**
NEIC XII 05 05 42 34.3 3.73S 135.35E 33 4.3b
EIDC Error ellipse is semi−major=37.4km semi−minor=17.1km azimuth=70
NEIC Less reliable solution.
ISC XII 05 07 56 11±1.9 **0.8S**±.19 **135.4E**±.26 **33** 3.5b **4 14-86**
EIDC XII 05 07 56 06.7±2.06 0.7S 135.2E 0 3.4b,3.8L **¶97xii0804**
ISC Poorly determined
EIDC Error ellipse is semi−major=79.3km semi−minor=28.4km azimuth=99
ISC XII 05 08 03 04±4.5 **1.0S**±.22 **135.9E**±.29 **90**±36 **4.5b** **12 5-151**
EIDC XII 05 08 02 53.7±1.44 0.8S 136.0E 0 4.5b,4.7L **¶97xii0806**
NEIC XII 05 08 02 55.3 0.68S 136.41E 33 4.4b
EIDC Error ellipse is semi−major=37.6km semi−minor=23.3km azimuth=66
NEIC Poor solution.
EIDC XII 12 20 16 39.2 0.6N 130.6E 0 **3.5b,**3.5s **21-34**
¶97xii2814
EIDC Origin time error = 12.73Error ellipse is semi−major=289.6km semi−minor=170.6km azimuth=101
ISC XII 15 15 08 34±1.2 **2.1S**±.12 **134.6E**±.19 **33** **3.6b** **8 4-64**
EIDC XII 15 15 08 31.4±1.62 2.0S 134.5E 0 3.7b,3.9L **¶97xii3299**
NEIC XII 15 15 08 33.8 2.00S 134.01E 33 3.6b
EIDC Error ellipse is semi−major=59.5km semi−minor=21.2km azimuth=79
NEIC Poor solution.
ISC XII 15 15 56 46.2±.98 **2.0S**±.10 **134.1E**±.18 **33** **3.8b** **9 3-64**
EIDC XII 15 15 56 43.0±1.39 1.9S 134.4E 0 3.9b,3.6L **¶97xii3307**
NEIC XII 15 15 56 46.2 2.01S 134.05E 33 3.6b
EIDC Error ellipse is semi−major=56.4km semi−minor=18.5km azimuth=80
NEIC Less reliable solution.
ISC XII 16 00 38 00.6±.57 **3.75S**±.067 **134.7E**±.13 **33** **4.2b,**4.0s **21 5-150**
EIDC XII 16 00 37 57.9±.75 3.6S 134.9E 0 4.1b,4.3L **¶97xii3364**
NEIC XII 16 00 38 00.3 3.80S 134.71E 33 3.8b
EIDC Error ellipse is semi−major=37.2km semi−minor=14.1km azimuth=75
NEIC Less reliable solution.
EIDC XII 17 15 14 46.7±2.31 **2.9N 140.3E 0** **3.3b** **23-80**
¶97xii3621
EIDC Error ellipse is semi−major=346.7km semi−minor=29.6km azimuth=108
ISC XII 18 19 33 20±5.9 **0.98S**±.092 **136.5E**±.12 **40**±56 **4.6b,**3.8s **44 17-150**
EIDC XII 18 19 33 16.4±.57 0.9S 136.5E 0 4.4b,3.7s **¶97xii3811**
NEIC XII 18 19 33 19.4 0.96S 136.40E 33 4.7b
BJI XII 18 19 33 20.1 0.84S 136.66E 36 4.9b
EIDC Error ellipse is semi−major=28.0km semi−minor=10.9km azimuth=86
NEIC Less reliable solution.
ISC XII 20 08 57 17±2.4 **3.40S**±.077 **135.5E**±.11 **49**±26 **4.3b,**3.5s **28 5-88**
EIDC XII 20 08 57 12.2±.74 3.3S 135.4E 0 4.2b,4.3L **¶97xii4100**
NEIC XII 20 08 57 14.8 3.36S 135.39E 33 4.2b
BJI XII 20 08 57 15.4 3.32S 135.26E 26 4.6b
EIDC Error ellipse is semi−major=33.4km semi−minor=11.6km azimuth=86
ISC XII 25 06 15 03±3.3 **2.0S**±.15 **140.2E**±.39 **28**±30 **3.8b** **7 1-47**
EIDC XII 25 06 14 59.0±2.93 1.9S 140.7E 0 3.8b,3.4L **¶97xii4878**
NEIC XII 25 06 15 03.1 2.01S 140.21E 33
DJA XII 25 06 15 03.4±1.00 2.9S 140.3E 2 5.0D
EIDC Error ellipse is semi−major=129.4km semi−minor=25.8km azimuth=86
NEIC Less reliable solution.
DJA Error ellipse is semi−major=19.3km semi−minor=12.4km azimuth=159
ISC XII 26 20 45 26.7±.57 **0.67S**±.058 **133.3E**±.10 **33** **4.3b** **22 2-86**
EIDC XII 26 20 45 24.0±.78 0.7S 133.1E 0 4.2b,4.1L **¶97xii5195**
BJI XII 26 20 45 25.8 1.07S 133.62E 55 4.8b
NEIC XII 26 20 45 26.7 0.68S 133.34E 33 4.4b
EIDC Error ellipse is semi−major=37.5km semi−minor=11.2km azimuth=78

(197) Near north coast of West Irian.

DJA VII 03 16 57 51.6 2.4S 140.5E 2 4.9D **0-0**
¶97vii0429
DJA VII 04 00 44 25.5 2.2S 140.5E 2 5.0D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii0475**
DJA VII 04 07 41 29.6 2.3S 140.5E 28 5.2D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii0520**
DJA VII 04 08 27 59.1 2.4S 140.5E 2 4.8D **0-0**
¶97vii0526
DJA VII 04 08 54 16.4 2.4S 140.5E 2 5.0D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii0530**
DJA VII 04 10 15 15.3 2.4S 140.6E 2 4.8D **0-0**
¶97vii0536
DJA VII 04 10 50 43.6 2.4S 140.5E 2 4.8D **0-0**
¶97vii0541
DJA VII 04 11 07 49.9 2.3S 140.5E 33 5.4D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii0546**
DJA VII 04 15 22 14.1 2.4S 140.5E 2 4.9D **0-0**
¶97vii0582
DJA VII 05 03 37 27.1 2.1S 140.4E 2 4.9D **0-1**
¶97vii0668
DJA VII 05 12 04 41.5 2.1S 140.6E 2 4.8D **0-0**
¶97vii0724
DJA VII 06 01 17 15.5 2.2S 140.8E 33 5.3D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii0815**
DJA VII 06 02 02 28.0 2.4S 140.5E 33 5.1D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii0824**
DJA VII 07 03 56 11.0 2.4S 140.5E 33 5.2D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii0985**
DJA VII 07 06 01 10.9 2.1S 140.4E 2 5.0D **0-1**
ISC DJA magnitude values may be overestimated **¶97vii0999**
DJA VII 08 10 53 23.9 2.2S 140.5E 2 4.8D **0-0**
¶97vii1177
DJA VII 09 01 06 07.2 2.4S 140.5E 2 4.9D **0-0**
¶97vii1263
DJA VII 09 01 47 48.3 2.2S 140.5E 2 5.0D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii1271**
EIDC VII 09 06 03 05.2 2.9S 140.2E 0 3.7b,4.1L **0-85**
¶97vii1288
ISC VII 09 23 15 39±1.4 **1.0S**±.14 **138.9E**±.38 **33** **3.9b** **8 19-64**
EIDC VII 09 23 15 37.0 1.1S 138.7E 0 3.9b,3.6L **¶97vii1409**
NEIC VII 09 23 15 38.5 1.02S 138.86E 33 3.5b
NEIC Poor solution.
DJA VII 10 09 25 15.5 2.6S 140.1E 2 4.9D **0-0**
¶97vii1488
DJA VII 10 21 47 51.6 2.2S 140.5E 2 5.0D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii1572**
DJA VII 11 06 55 57.9 2.2S 140.5E 2 4.8D **0-0**
¶97vii1635
DJA VII 11 06 57 33.5 2.5S 140.5E 2 4.8D **0-0**
¶97vii1636
DJA VII 11 07 06 51.5 2.1S 140.3E 33 5.2D **0-1**
ISC DJA magnitude values may be overestimated **¶97vii1638**
DJA VII 11 16 28 16.8 2.4S 140.5E 2 5.0D **0-0**
ISC DJA magnitude values may be overestimated **¶97vii1707**
DJA VII 12 15 30 57.1 2.3S 140.5E 2 4.8D **0-0**
¶97vii1832
DJA VII 12 16 29 27.7 2.3S 140.6E 2 4.8D **0-0**
¶97vii1837
DJA VII 14 20 33 59.1 2.4S 140.5E 2 3.9D **0-0**
¶97vii2200

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
DJA	**VII**	**14 22 13 21.2**	**2.3S**	**140.5E**	**2**	4.7D		**0-0**	
									¶97vii2213
DJA	**VII**	**15 01 24 47.4**	**2.1S**	**140.1E**	**33**	5.4D		**0-1**	
ISC	DJA magnitude values may be overestimated								¶97vii2228
DJA	**VII**	**16 05 56 46.8**	**2.4S**	**140.5E**	**2**	4.8D		**0-0**	
									¶97vii2394
DJA	**VII**	**16 07 17 13.3**	**2.2S**	**140.5E**	**2**	4.8D		**0-0**	
									¶97vii2401
DJA	**VII**	**16 09 39 07.5**	**1.8S**	**139.9E**	**33**	5.3D,2.9L		**1-1**	
ISC	DJA magnitude values may be overestimated								¶97vii2413
ISC	**VII**	**16 20 57 16**±2.3	**1.8S**±.10	**138.8E**±.13	**35**±24	**4.0b**		**15 2-148**	
NEIC	VII	16 20 57 15.8	1.85S	138.75E	33	4.4b			¶97vii2493
EIDC	VII	16 20 57 15.9	1.8S	138.7E	18	4.0b,4.5L			
ISC	**VII**	**16 22 54 47**±3.6	**2.46S**±.059	**139.45E**±.090	**29**±29	**4.4b,**4.4s		**33 1-147**	
DJA	VII	16 22 54 16.2	0.5N	139.9E	100	5.9L,5.8D			¶97vii2510
EIDC	VII	16 22 54 44.5	2.4S	139.4E	0	4.3b,4.7L			
BJI	VII	16 22 54 45.4	2.37S	139.30E	16	4.9b			
NEIC	VII	16 22 54 47.2	2.47S	139.46E	33	4.5b			
ISC	DJA magnitude values may be overestimated								
DJA	**VII**	**16 23 37 32.4**	**2.1S**	**140.6E**	**2**	5.0D		**0-1**	
ISC	DJA magnitude values may be overestimated								¶97vii2515
DJA	**VII**	**16 23 40 39.2**	**2.2S**	**140.6E**	**2**	5.0D		**0-0**	
ISC	DJA magnitude values may be overestimated								¶97vii2517
DJA	**VII**	**21 05 05 07.8**	**2.5S**	**140.4E**	**131**	5.5D		**0-0**	
ISC	DJA magnitude values may be overestimated								¶97vii3197
DJA	**VII**	**21 09 25 23.4**	**2.5S**	**140.6E**	**2**	4.8D		**0-0**	
									¶97vii3221
DJA	**VII**	**21 10 33 05.4**	**2.2S**	**140.2E**	**33**	5.4D		**0-1**	
ISC	DJA magnitude values may be overestimated								¶97vii3230
DJA	**VII**	**21 18 20 56.4**	**2.5S**	**140.5E**	**2**	4.9D		**0-0**	
									¶97vii3276
DJA	**VII**	**22 03 54 54.9**	**1.1S**	**138.1E**	**46**	5.6D,4.7L		**3-3**	
ISC	DJA magnitude values may be overestimated								¶97vii3324
DJA	**VII**	**22 12 02 27.3**	**2.3S**	**140.5E**	**2**	4.9D		**0-0**	
									¶97vii3371
EIDC	**VII**	**23 10 28 27.6**	**1.4S**	**137.6E**	**0**	3.9b,3.6L		**19-31**	
									¶97vii3516
DJA	**VII**	**26 13 22 30.3**	**2.4S**	**140.5E**	**2**	4.9D		**0-0**	
									¶97vii3971
DJA	**VII**	**27 18 11 03.0**	**2.7S**	**140.4E**	**2**	4.8D		**0-0**	
									¶97vii4148
DJA	**VII**	**27 20 53 08.6**	**3.0S**	**140.2E**	**2**	4.9D		**1-1**	
									¶97vii4161
DJA	**VII**	**28 03 27 05.2**	**2.5S**	**140.6E**	**28**	5.4D		**0-0**	
ISC	DJA magnitude values may be overestimated								¶97vii4202
DJA	**VII**	**29 04 32 55.0**	**2.4S**	**140.7E**	**2**	4.9D		**0-0**	
									¶97vii4382
ISC	**VII**	**29 05 45 55**±1.6	**2.2S**±.16	**140.0E**±.13	**33**	3.6b		**6 1-85**	
EIDC	VII	29 05 45 51.9	3.7S	143.8E	0	3.8b,4.0L			¶97vii4388
DJA	VII	29 05 45 54.8	2.1S	140.3E	2	5.1D			
NEIC	VII	29 05 45 55.3	2.65S	141.29E	33				
ISC	DJA magnitude values may be overestimated								
NEIC	Poor solution.								
DJA	**VII**	**29 17 49 14.7**	**2.5S**	**140.6E**	**33**	4.1D		**0-0**	
									¶97vii4460
DJA	**VII**	**31 13 27 44.8**	**2.4S**	**140.5E**	**2**	4.8D		**0-0**	
									¶97vii4737
DJA	**VII**	**31 15 23 15.3**	**2.4S**	**140.6E**	**2**	4.7D		**0-0**	
									¶97vii4748
DJA	**VII**	**31 16 36 20.3**	**2.7S**	**140.4E**	**2**	4.9D		**0-0**	
									¶97vii4764
DJA	**VII**	**31 17 50 21.8**	**1.0S**	**139.8E**	**100**	5.6D,3.9L		**2-2**	
ISC	DJA magnitude values may be overestimated								¶97vii4772
DJA	**VIII**	**03 23 59 35.5**	**2.4S**	**140.5E**	**2**	4.8D		**0-0**	
									¶97viii0432
DJA	**VIII**	**04 10 47 44.6**	**2.5S**	**140.5E**	**103**	5.4D		**0-0**	
ISC	DJA magnitude calculations may be overestimated								¶97viii0495
ISC	**VIII**	**05 08 48 46**±1.2	**2.9S**±.14	**139.0E**±.13	**33**	3.9b		**6 1-48**	
EIDC	VIII	05 08 48 38.4	2.9S	140.7E	0	3.8b,3.7L			¶97viii0644
NEIC	VIII	05 08 48 46.3	2.93S	139.05E	33				
DJA	VIII	05 08 48 52.6	1.6S	141.2E	33	5.4D,4.8L			
ISC	DJA magnitude calculations may be overestimated								
NEIC	Less reliable solution.								
DJA	**VIII**	**05 17 49 56.8**	**2.3S**	**140.5E**	**2**	5.0D		**0-0**	
ISC	DJA magnitude calculations may be overestimated								¶97viii0695
DJA	**VIII**	**06 01 07 49.9**	**3.0S**	**140.4E**	**2**	4.9D		**0-1**	
									¶97viii0744
DJA	**VIII**	**07 10 04 59.6**	**2.4S**	**140.6E**	**25**	5.3D		**0-0**	
ISC	DJA magnitude calculations may be overestimated								¶97viii0922
DJA	**VIII**	**07 16 22 30.0**	**2.4S**	**140.5E**	**24**	5.1D		**0-0**	
ISC	DJA magnitude calculations may be overestimated								¶97viii0972
ISC	**VIII**	**08 07 34 12**±1.7	**1.8S**±.19	**137.8E**±.62	**33**	**3.7b**		**7 18-85**	
EIDC	VIII	08 07 34 07.8	1.6S	137.5E	0	3.7b,3.7L			¶97viii1068
DJA	**VIII**	**09 03 37 09.6**	**2.4S**	**140.5E**	**33**	5.3D		**0-0**	
ISC	DJA magnitude calculations may be overestimated								¶97viii1198
ISC	**VIII**	**09 16 03 53**±1.6	**2.31S**±.082	**139.7E**±.14	**57**±17	**4.3b**		**24 1-147**	
NEIC	VIII	09 16 03 49.6	2.30S	139.65E	24	4.3b			¶97viii1277
EIDC	VIII	09 16 03 50.2	2.2S	139.9E	21	4.0b,4.1L			
NEIC	Less reliable solution.								
ISC	**VIII**	**11 19 40 00**±1.5	**1.6S**±.16	**138.3E**±.11	**33**	**3.7b**		**10 2-85**	
NEIC	VIII	11 19 40 00.1	1.57S	138.34E	33	3.8b			¶97viii1619
DJA	VIII	11 19 40 18.5	3.0S	140.2E	147	5.6D			
EIDC	VIII	11 19 40 19.0	2.2S	139.3E	194	3.2b			
ISC	DJA magnitude calculations may be overestimated								
NEIC	Less reliable solution.								
DJA	**VIII**	**13 01 02 50.9**	**2.4S**	**140.5E**	**2**	4.8D		**0-0**	
									¶97viii1832
DJA	**VIII**	**13 23 24 23.5**	**1.3S**	**139.5E**	**100**	5.7D,5.3L		**2-84**	
EIDC	VIII	13 23 24 27.4	3.1S	135.8E	0	3.7b,3.8L			¶97viii1978
ISC	DJA magnitude calculations may be overestimated								
DJA	**VIII**	**16 01 41 28.7**	**1.7S**	**140.0E**	**33**	5.3D,4.2L		**1-1**	
ISC	DJA magnitude calculations may be overestimated								¶97viii2302
DJA	**VIII**	**16 04 54 29.7**	**2.4S**	**140.5E**	**2**	4.8D		**0-0**	
									¶97viii2316
DJA	**VIII**	**16 08 31 09.3**	**2.0S**	**140.5E**	**2**	4.9D		**0-1**	
									¶97viii2335
ISC	**VIII**	**16 14 07 20.2**±.76	**2.64S**±.095	**139.33E**±.090	**33**	**3.9b**		**15 1-144**	
EIDC	VIII	16 14 07 16.6	2.4S	139.2E	0	3.8b,4.2L			¶97viii2379
NEIC	VIII	16 14 07 19.6	2.55S	139.12E	33	3.9b			
DJA	VIII	16 14 07 21.1	2.9S	139.4E	33	5.4D,4.9L			
ISC	DJA magnitude calculations may be overestimated								
NEIC	Poor solution.								
ISC	**VIII**	**16 14 14 04.8**±.72	**2.67S**±.092	**139.35E**±.088	**33**	**4.1b,**3.4s		**18 1-144**	
DJA	VIII	16 14 13 55.5	2.3S	139.6E	200	5.7D,5.2L			¶97viii2382
EIDC	VIII	16 14 14 02.2	2.8S	139.9E	0	3.9b,4.2L			
NEIC	VIII	16 14 14 11.8	2.96S	139.76E	100	4.1b			
ISC	DJA magnitude calculations may be overestimated								
NEIC	Poor solution.								
DJA	**VIII**	**17 03 24 35.7**	**2.5S**	**140.6E**	**2**	4.7D		**0-0**	
									¶97viii2478
DJA	**VIII**	**17 08 35 53.6**	**2.4S**	**140.6E**	**2**	4.9D		**0-0**	
									¶97viii2513
DJA	**VIII**	**18 05 24 19.1**	**2.1S**	**140.5E**	**2**	4.9D		**0-1**	
									¶97viii2628
DJA	**VIII**	**19 03 29 24.4**	**2.1S**	**140.0E**	**38**	5.3D		**1-1**	
ISC	DJA magnitude calculations may be overestimated								¶97viii2756
DJA	**VIII**	**21 14 09 07.9**	**2.4S**	**140.5E**	**2**	4.8D		**0-0**	
									¶97viii3105
DJA	**VIII**	**21 20 54 49.7**	**2.2S**	**140.4E**	**33**	5.5D		**0-19**	
ISC	DJA magnitude calculations may be overestimated								¶97viii3142
DJA	**VIII**	**22 15 43 00.1**	**2.1S**	**140.3E**	**13**	5.2D		**0-1**	
ISC	DJA magnitude calculations may be overestimated								¶97viii3249
ISC	**VIII**	**22 22 35 51**±4.0	**2.8S**±.25	**139.5E**±.43	**62**±34	**3.8b**		**9 1-86**	
EIDC	VIII	22 22 35 47.0	2.6S	139.3E	20	3.8b,3.8L			¶97viii3297
NEIC	VIII	22 22 35 47.5	2.69S	139.45E	33	3.4b			
DJA	VIII	22 22 35 52.9	2.6S	139.8E	90	5.6D,5.0L			
ISC	DJA magnitude calculations may be overestimated								
NEIC	Poor solution.								
DJA	**VIII**	**30 18 35 27.1**	**2.3S**	**140.6E**	**2**	4.9D		**0-0**	
									¶97viii4523
DJA	**VIII**	**30 20 40 26.8**	**2.1S**	**140.7E**	**100**	5.6D		**1-1**	
ISC	DJA magnitude calculations may be overestimated								¶97viii4532
DJA	**IX**	**01 21 22 58.7**	**2.2S**	**140.5E**	**2**	4.9D		**0-0**	¶97ix0166
DJA	**IX**	**02 22 54 17.9**	**2.9S**	**140.3E**	**2**	4.9D		**0-0**	¶97ix0343
DJA	**IX**	**03 01 36 56.2**	**2.8S**	**140.5E**	**33**	5.1D		**0-0**	¶97ix0364
DJA	**IX**	**14 13 13 31.2**	**2.3S**	**140.5E**	**2**	4.9D		**0-0**	¶97ix2127
DJA	**IX**	**14 13 42 28.2**	**2.1S**	**140.6E**	**2**	5.0D		**0-0**	¶97ix2132
DJA	**IX**	**14 20 01 34.3**	**2.4S**	**140.4E**	**2**	5.0D		**0-0**	¶97ix2163
DJA	**IX**	**15 12 02 28.7**	**2.2S**	**140.5E**	**2**	4.9D		**0-0**	¶97ix2241
DJA	**IX**	**16 10 43 52.2**	**2.2S**	**140.8E**	**100**	5.6D		**0-0**	¶97ix2373
EIDC	**IX**	**16 16 06 40.2**	**1.7S**	**137.1E**	**0**	**3.7b,**3.1L		**0-0**	¶97ix2407
DJA	**IX**	**16 16 59 58.5**	**2.5S**	**140.5E**	**2**			**0-0**	¶97ix2410
DJA	**IX**	**16 19 37 52.7**	**1.9S**	**139.7E**	**3**	5.0D,3.3L		**0-0**	¶97ix2422
DJA	**IX**	**16 23 09 53.9**	**2.2S**	**140.5E**	**2**	5.0D		**0-0**	¶97ix2439
DJA	**IX**	**17 13 40 19.5**	**2.6S**	**140.6E**	**26**	5.1D		**0-0**	¶97ix2514
DJA	**IX**	**18 04 19 50.3**	**2.3S**	**140.5E**	**14**	5.1D		**0-0**	¶97ix2614
DJA	**IX**	**19 02 27 40.1**	**2.1S**	**140.1E**	**33**	5.3D		**0-0**	¶97ix2739
DJA	**IX**	**20 03 28 09.7**	**2.3S**	**140.5E**	**19**	5.1D		**0-0**	¶97ix2890
EIDC	**IX**	**21 09 20 51.3**	**3.0S**	**140.3E**	**0**	3.3b,3.8L		**0-0**	¶97ix3074
EIDC	**IX**	**22 03 54 22.4**	**2.1S**	**140.0E**	**0**	3.7b,3.1L		**0-0**	¶97ix3205
DJA	**IX**	**22 05 25 33.5**	**1.7S**	**139.0E**	**33**	5.4D,**4.7L**		**0-0**	¶97ix3222
DJA	**IX**	**22 08 26 17.9**	**2.4S**	**140.6E**	**33**	5.2D		**0-0**	¶97ix3246
DJA	**IX**	**22 16 15 22.6**	**2.4S**	**140.5E**	**20**	5.1D		**0-0**	¶97ix3301
ISC	**IX**	**23 17 41 56.4**±.62	**2.78S**±.051	**140.79E**±.076	**40**±6.5	**4.2b,**3.3s		**37 0-151**	
EIDC	IX	23 17 41 52.3	2.7S	141.1E	0	4.1b,4.3L			¶97ix3460
BJI	IX	23 17 41 55.4	2.86S	141.36E	53	4.5b			
NEIC	IX	23 17 41 55.7	2.81S	140.83E	33	4.3b			
NEIC	Felt I=III MM at Jayapura. Also felt at Sentani.								
ISC	**IX**	**29 07 44 13.0**±.94	**1.2S**±.11	**137.5E**±.49	**100**	**3.9b**		**10 13-85**	
NEIC	IX	29 07 44 13.0	1.17S	137.50E	100	3.8b			¶97ix4900
EIDC	IX	29 07 44 14.6	1.2S	137.6E	99	3.8b,4.2L			
NEIC	Poor solution.								
EIDC	**IX**	**29 20 43 41.9**	**1.4S**	**138.1E**	**0**	3.7b,3.6L		**0-0**	¶97ix5018
ISC	**IX**	**30 07 19 13**±1.0	**1.0S**±.10	**137.5E**±.29	**33**	**4.0b**		**8 19-85**	
EIDC	IX	30 07 19 09.9	1.0S	137.6E	0	4.0b,4.1L			¶97ix5157
NEIC	IX	30 07 19 13.0	1.02S	137.52E	33	3.9b			
NEIC	Poor solution.								
ISC	**X**	**01 14 54 45**±1.6	**1.8S**±.17	**137.1E**±.39	**33**	**3.7b**		**7 18-86**	
EIDC	X	01 14 54 41.4	1.7S	137.1E	0	3.6b,3.8L			¶97x0104
NEIC	X	01 14 54 44.8	1.80S	137.11E	33	3.5b			
NEIC	Poor solution.								
EIDC	**X**	**04 01 06 30.1**	**2.4S**	**139.3E**	**0**	3.6b,4.4L		**0-0**	¶97x0554
DJA	**X**	**05 07 57 55.7**	**2.5S**	**139.6E**	**71**	5.6D		**0-0**	¶97x0829
DJA	**X**	**05 17 56 23.0**	**2.5S**	**140.7E**	**2**	4.9D		**0-0**	¶97x0899
DJA	**X**	**05 18 14 14.6**	**2.5S**	**140.6E**	**2**	5.0D		**0-0**	¶97x0904
DJA	**X**	**05 18 59 40.2**	**2.5S**	**140.7E**	**2**	4.8D		**0-0**	¶97x0913
DJA	**X**	**05 20 59 12.5**	**2.5S**	**140.6E**	**4**	4.9D		**0-0**	¶97x0933
DJA	**X**	**07 04 32 09.6**	**2.5S**	**140.5E**	**2**	4.8D		**0-0**	¶97x1179
DJA	**X**	**07 20 42 18.4**	**2.2S**	**140.5E**	**2**	4.8D		**0-0**	¶97x1298
DJA	**X**	**07 21 21 11.4**	**2.5S**	**140.6E**	**2**	4.6D		**0-0**	¶97x1303
DJA	**X**	**07 21 24 14.2**	**2.5S**	**140.6E**	**2**	4.6D		**0-0**	¶97x1304
DJA	**X**	**07 22 23 35.9**	**2.3S**	**139.7E**	**33**	5.2D		**0-0**	¶97x1311
DJA	**X**	**09 07 10 04.2**	**2.1S**	**140.5E**	**2**	4.9D		**0-0**	¶97x1546
DJA	**X**	**09 13 39 51.9**	**2.4S**	**140.6E**	**28**	5.3D		**0-0**	¶97x1587
DJA	**X**	**10 10 08 14.8**	**2.2S**	**140.0E**	**33**	5.2D		**0-0**	¶97x1735
DJA	**X**	**12 01 33 13.0**	**2.4S**	**139.1E**	**33**	5.4D,**4.4L**		**0-0**	¶97x1969
DJA	**X**	**12 11 12 16.2**	**2.4S**	**140.5E**	**2**	4.8D		**0-0**	¶97x2029
DJA	**X**	**14 20 53 31.8**	**2.0S**	**140.6E**	**2**	5.0D		**0-0**	¶97x2492
DJA	**X**	**19 00 30 48.9**	**2.4S**	**140.5E**	**33**	5.2D		**0-0**	¶97x3265
EIDC	**X**	**20 13 42 31.6**	**1.4S**	**137.1E**	**0**	3.9b,3.8L		**0-0**	¶97x3507
EIDC	**X**	**20 15 05 24.5**	**1.9S**	**137.4E**	**0**	3.6b,4.3L		**0-0**	¶97x3520
ISC	**X**	**23 14 01 22.2**±.52	**2.73S**±.062	**139.33E**±.066	**10**	**4.3b,**3.6s		**25 1-86**	
NEIC	X	23 14 01 22.2	2.72S	139.32E	10	4.2b			¶97x4009
EIDC	X	23 14 01 32.4	2.9S	139.3E	84	3.8b,3.5s			
DJA	**X**	**23 16 43 19.9**	**2.9S**	**140.5E**	**2**	4.7D		**0-0**	¶97x4029
ISC	**X**	**24 23 50 18**±1.4	**2.1S**±.17	**139.8E**±.11	**33**	**3.7b**		**7 1-85**	
DJA	X	24 23 49 42.0	1.1S	137.8E	200	4.3L			¶97x4238
NEIC	X	24 23 50 17.6	2.12S	139.77E	33				
EIDC	X	24 23 50 17.9	2.3S	139.2E	0	3.6b,3.6L			
NEIC	Less reliable solution.								
DJA	**XI**	**03 02 28 58.4**±1.11	**2.4S**	**140.5E**	**2**	4.8D		**0-0**	
DJA	Error ellipse is semi−major=20.5km semi−minor=5.3km azimuth=167								¶97xi0379
EIDC	**XI**	**08 04 50 35.7**	**1.5S**	**137.1E**	**0**	3.6b,3.5L		**0-0**	¶97xi1215
DJA	**XI**	**09 10 35 33.4**±1.13	**2.7S**	**139.4E**	**33**	4.0L		**1-1**	
									¶97xi1434
DJA	Error ellipse is semi−major=309.2km semi−minor=26.0km azimuth=170								
ISC	**XI**	**12 22 59 57**±9.5	**1.8S**±.90	**138.9E**±.32	**33**	4.0b		**6 2-22**	
									¶97xi2046

DJA XI 23 22 14 16.7±1.13 **2.7S 140.2E 2** 4.9D **0-1**
¶97xi4207

DJA Error ellipse is semi−major=29.4km semi−minor=14.8km azimuth=166
ISC XI 29 18 23 01±2.7 **2.1S**±.28 **140.0E**±.36 **150** 4.6b **6 1-22**
¶97xi5306

DJA XI 30 02 07 51.8±1.20 **2.6S 140.3E 2** 5.0D **0-0**
DJA Error ellipse is semi−major=21.1km semi−minor=16.0km azimuth=7
¶97xi5352
DJA XI 30 10 31 47.4±1.60 **2.9S 140.5E 2** 4.9D **0-0**
¶97xi5401

DJA Error ellipse is semi−major=24.1km semi−minor=10.3km azimuth=172
DJA XII 02 20 04 41.0±1.20 **2.5S 140.2E 2** 5.0D **0-0**
DJA Error ellipse is semi−major=20.4km semi−minor=16.0km azimuth=18
¶97xii0304
DJA XII 04 21 16 04.2±1.13 **2.7S 140.2E 2** 4.8D **0-0**
¶97xii0693

DJA Error ellipse is semi−major=25.4km semi−minor=14.8km azimuth=167
ISC XII 13 21 53 48±2.2 **2.44S**±.060 **139.9E**±.12 **11**±15 **4.4b 36 1-147**
DJA XII 13 21 53 44.2±1.04 3.2S 140.4E 2 5.2D **¶97xii3027**
NEIC XII 13 21 53 49.9 2.44S 139.92E 33 4.3b
BJI XII 13 21 53 55.4 1.84S 139.59E 33 4.5b
EIDC XII 13 21 53 57.3±2.84 2.6S 140.1E 87±25.7 3.9b,3.2s
DJA Error ellipse is semi−major=20.3km semi−minor=12.8km azimuth=103
EIDC Error ellipse is semi−major=27.7km semi−minor=11.2km azimuth=99
EIDC XII 16 00 01 03.9 1.4S 137.3E 37±16.9 3.8b,3.5L **19-31**
¶97xii3360

EIDC Origin time error = 16.78Error ellipse is semi−major=283.3km semi−minor=131.9km azimuth=144
DJA XII 17 14 53 31.8±1.20 **2.1S 140.8E 80**±18.6 5.6D **0-1**
¶97xii3618

DJA Error ellipse is semi−major=83.8km semi−minor=41.9km azimuth=163
ISC XII 17 23 26 44±1.0 **2.83S**±.034 **140.94E**±.049 **14**±6.2 **5.1b,4.4s 103 0-160**
DJA XII 17 23 26 43.8±1.80 2.2S 140.6E 2 5.3D **¶97xii3678**
BJI XII 17 23 26 46.9 2.90S 141.00E 33 5.0b,5.3s
NEIC XII 17 23 26 46.9 2.86S 140.96E 33 5.3b
EIDC XII 17 23 26 47.8±.71 2.9S 141.0E 27±4.7 4.6b,4.3s
HRVD XII 17 23 26 48.5±.1 2.54S±.01 141.69E±.02 36±1.2
DJA Error ellipse is semi−major=31.3km semi−minor=13.8km azimuth=171
NEIC Mw5.0(HRV).
EIDC Error ellipse is semi−major=17.9km semi−minor=8.9km azimuth=94
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c15; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.22±1.05; $M_{\theta\theta}$3.05±.44; $M_{\phi\phi}$−1.83±1.19; $M_{r\theta}$−1.17±1.32; $M_{r\phi}$−0.09±1.09; $M_{\theta\phi}$2.33±1.11. Principal Axes: T 4.21,Plg12°,Azm158°; N −1.36,Plg72°,Azm287°; P −2.85,Plg14°,Azm65°. Best double couple: M_O3.5×10^{16}Nm, NP1: ϕ_S202°,δ72°,λ−179°. NP2:ϕ_S112°,δ89°,λ−18°.
ISC XII 22 03 05 09±1.0 **2.9S**±.17 **139.8E**±.20 **33 4.0b 10 1-100**
EIDC XII 22 03 05 06.6±1.76 2.9S 139.7E 0 3.8b,3.8L **¶97xii4342**
NEIC XII 22 03 05 08.8 2.88S 139.83E 33 4.1b
EIDC Error ellipse is semi−major=97.2km semi−minor=26.9km azimuth=113
NEIC Poor solution.
DJA XII 24 07 43 05.6±1.13 **2.7S 139.7E 33** 5.4D,4.8L **1-1**
¶97xii4719

DJA Error ellipse is semi−major=95.4km semi−minor=26.2km azimuth=172
DJA XII 24 09 30 22.4±1.13 **2.9S 139.7E 33** 5.4D,4.3L **1-1**
¶97xii4730

DJA Error ellipse is semi−major=150.1km semi−minor=26.1km azimuth=159
DJA XII 24 20 28 11.8±1.13 **2.9S 140.0E 33** 5.4D **1-1**
¶97xii4817

DJA Error ellipse is semi−major=217.2km semi−minor=26.8km azimuth=147
DJA XII 25 08 00 24.1±.82 **2.6S 140.1E 2** 5.0D **0-1**
¶97xii4891

DJA Error ellipse is semi−major=31.6km semi−minor=11.2km azimuth=176
DJA XII 25 08 13 53.5±1.13 **2.6S 139.7E 33** 5.4D,5.2L **1-1**
¶97xii4895

DJA Error ellipse is semi−major=82.2km semi−minor=26.3km azimuth=176
DJA XII 25 08 19 24.1±1.60 **3.0S 139.9E 33** 5.3D,4.4L **1-1**
¶97xii4896

DJA Error ellipse is semi−major=288.2km semi−minor=37.7km azimuth=145
EIDC XII 31 06 27 24.7 1.2S 137.5E 0 3.8b,3.7L **19-31**
¶97xii5845

EIDC Origin time error = 15.43Error ellipse is semi−major=277.2km semi−minor=122.7km azimuth=142
DJA XII 31 23 26 28.4±1.60 **2.9S 140.5E 2** 4.9D **0-0**
¶97xii6003

DJA Error ellipse is semi−major=31.0km semi−minor=19.7km azimuth=141

(198) New Guinea region.

DJA VII 01 08 12 46.4 0.9S 141.7E 100 5.6D,4.3L **2-2**
ISC DJA magnitude values may be overestimated **¶97vii0047**
DJA VII 13 09 11 27.3 1.9S 141.1E 33 5.3D,3.4L **1-1**
¶97vii1955

DJA VII 17 18 25 57.4 1.6S 141.3E 33 4.7L **1-1**
¶97vii2625

ISC VIII 18 07 41 11±4.9 **2.45S**±.067 **143.45E**±.099 **3**±30 **4.6b,3.7s 36 1-148**
EIDC VIII 18 07 41 10.9 2.4S 143.6E 0 4.4b,3.8s **¶97viii2638**
MOS VIII 18 07 41 14.7 2.4S 143.5E 33 5.1b
BJI VIII 18 07 41 15.3 2.52S 143.37E 31 4.7b
NEIC VIII 18 07 41 15.5 2.46S 143.36E 33 4.7b
DJA X 10 06 23 51.3 1.9S 141.0E 33 5.3D,3.7L **¶97x1703**
ISC XI 28 15 29 02±1.1 **1.5S**±.12 **145.0E**±.13 **33 3.8b**,3.1s **10 4-82**
EIDC XI 28 15 28 57.8 1.5S 145.5E 0 3.8b,3.1s **¶97xi5109**
NEIC XI 28 15 29 02.3 1.53S 144.96E 33 3.9b
NEIC Less reliable solution.
EIDC XII 01 16 56 40.0 2.8S 143.3E 0 3.8b,3.7L **3-29**
¶97xii0114

EIDC Origin time error = 18.06Error ellipse is semi−major=296.5km semi−minor=105.3km azimuth=167

(199) Admiralty Islands region.

ISC VII 13 06 08 09±1.7 **2.8S**±.13 **148.1E**±.37 **33 3.6b 8 4-44**
EIDC VII 13 06 08 05.5 2.8S 148.1E 0 3.7b **¶97vii1933**
NEIC VII 13 06 08 08.6 2.85S 148.07E 33 3.5b
NEIC Poor solution.
ISC VIII 11 22 56 06±6.5 **1.9S**±.47 **148.6E**±.58 **100** 4.0b **5 5-26**
¶97viii1640

ISC XI 14 20 00 33±1.7 **3.0S**±.12 **147.7E**±.45 **33 3.9b 7 4-68**
NEIC XI 14 20 00 33.4 2.99S 147.67E 33 3.8b **¶97xi2345**
EIDC XI 14 20 00 36.2 3.1S 148.1E 55 3.8b,4.0L
NEIC Poor solution.
ISC XII 09 10 14 19.9±.29 **1.58S**±.037 **145.13E**±.056 **33 4.8b,4.3s 77 3-150**
EIDC XII 09 10 14 16.2±.60 1.5S 145.3E 0 4.7b,4.3s **¶97xii2151**
BJI XII 09 10 14 19.7 1.39S 145.49E 38 5.0b,5.2s
NEIC XII 09 10 14 19.8 1.57S 145.11E 33 4.9b
EIDC Error ellipse is semi−major=29.0km semi−minor=12.5km azimuth=90
ISC XII 18 06 24 45±1.5 **2.8S**±.11 **147.0E**±.30 **33 3.9b 10 17-82**
EIDC XII 18 06 24 41.5±2.12 2.8S 147.1E 0 3.9b **¶97xii3724**
NEIC XII 18 06 24 44.7 2.77S 147.00E 33 3.9b
EIDC Error ellipse is semi−major=63.7km semi−minor=21.3km azimuth=97
NEIC Poor solution.
ISC XII 18 06 28 22.1±.79 **2.84S**±.083 **147.4E**±.20 **33 3.9b 13 17-96**
EIDC XII 18 06 28 18.8±1.04 2.8S 147.6E 0 4.0b,3.7L **¶97xii3725**
NEIC XII 18 06 28 22.0 2.84S 147.44E 33 4.0b
EIDC Error ellipse is semi−major=38.8km semi−minor=17.0km azimuth=98
NEIC Less reliable solution.
ISC XII 18 06 38 55±6.1 **1.5S**±.59 **147.9E**±.37 **33 4.1b 9 19-33**
EIDC XII 18 06 38 55.5 1.8S 147.6E 0 4.1b,3.7L **¶97xii3729**
NEIC XII 18 06 38 56.1 1.71S 147.96E 33 4.4b
EIDC Origin time error = 10.67Error ellipse is semi−major=165.6km semi−minor=62.3km azimuth=34
NEIC Poor solution.
ISC XII 18 06 46 50.4±.89 **2.9S**±.14 **147.8E**±.22 **33 4.1b 10 21-96**
EIDC XII 18 06 46 46.9±1.08 2.9S 147.9E 0 4.2b **¶97xii3731**
NEIC XII 18 06 46 50.1 2.98S 147.81E 33
EIDC Error ellipse is semi−major=41.4km semi−minor=18.0km azimuth=118
NEIC Poor solution.
ISC XII 18 07 48 29±1.4 **2.9S**±.10 **147.4E**±.24 **33 4.6b,**3.3s **16 4-69**
EIDC XII 18 07 48 02.4±1.66 1.1S 149.2E 0 4.3s,4.6b **¶97xii3734**
EIDC Error ellipse is semi−major=66.6km semi−minor=27.8km azimuth=118
EIDC XII 19 21 29 06.2 2.1S 146.6E 0 3.4b 21-30
EIDC Origin time error = 22.20LO CONF Location **¶97xii4037**
ISC XII 21 01 59 52±3.8 **2.9S**±.21 **147.0E**±.24 **49**±33 **3.9b,**4.1s **12 4-96**
EIDC XII 21 01 59 46.5±1.26 2.7S 146.7E 0 3.9b,3.9s **¶97xii4194**
NEIC XII 21 01 59 48.8 2.73S 146.93E 33 4.1b
EIDC Error ellipse is semi−major=53.6km semi−minor=21.0km azimuth=115
NEIC Less reliable solution.
ISC XII 26 07 54 17.9±.78 **0.95S**±.092 **147.0E**±.19 **33 3.9b 14 21-95**
EIDC XII 26 07 54 14.3±.95 1.0S 147.2E 0 4.0b **¶97xii5079**
BJI XII 26 07 54 16.1 0.80S 146.78E 10 4.3b
NEIC XII 26 07 54 17.9 1.05S 147.08E 33 4.1b
EIDC Error ellipse is semi−major=35.6km semi−minor=18.5km azimuth=104
NEIC Less reliable solution.
ISC XII 29 14 12 21±1.4 **1.8S**±.20 **148.4E**±.43 **33 3.5b 8 8-81**
EIDC XII 29 14 12 17.6±1.47 1.3S 147.7E 0 3.6b **¶97xii5594**
EIDC Error ellipse is semi−major=96.6km semi−minor=27.6km azimuth=118

(200) Near north coast of New Guinea.

ISC VII 01 02 41 41±7.1 **3.8S**±.12 **143.1E**±.67 **89**±63 **3.5b 9 2-143**
EIDC VII 01 02 41 32.3 2.8S 141.2E 0 3.6b,4.0L **¶97vii0016**
ISC VII 06 21 52 02.3±.94 **3.84S**±.094 **142.1E**±.10 **70**±15 3.7b **10 2-85**
EIDC VII 06 21 51 51.8 1.8S 136.1E 0 3.9b,3.7L **¶97vii0943**
DJA VII 06 21 52 02.8 4.6S 141.3E 33 5.5D,4.9L
ISC DJA magnitude values may be overestimated
ISC VII 07 15 40 14±4.2 **3.4S**±.15 **143.9E**±.22 **17**±26 **3.5b 8 0-84**
EIDC VII 07 15 40 12.5 3.3S 143.8E 0 3.5b,3.6L **¶97vii1062**
ISC VII 10 03 12 29.3±.90 **3.83S**±.084 **142.09E**±.098 **68**±14 **3.9b 10 2-85**
EIDC VII 10 03 12 21.8 3.6S 142.0E 0 3.9b,4.1L **¶97vii1436**
NEIC VII 10 03 12 25.4 3.84S 142.38E 33 3.7b
NEIC Less reliable solution.
ISC VII 15 00 18 55±2.9 **4.7S**±.12 **144.8E**±.29 **57**±30 **3.6b 7 2-85**
EIDC VII 15 00 18 48.9 4.5S 144.8E 0 3.7b,4.0L **¶97vii2224**
NEIC VII 15 00 18 52.1 4.54S 144.68E 33
NEIC Poor solution.
ISC VII 26 15 15 32.4±.98 **3.75S**±.069 **142.72E**±.080 **46**±11 **4.0b,**3.5s **19 1-85**
EIDC VII 26 15 15 27.0 3.8S 143.1E 0 4.0b,3.5s **¶97vii3978**
NEIC VII 26 15 15 31.0 3.73S 142.79E 33 3.9b
NEIC Less reliable solution.
ISC VII 27 13 56 21.2±.32 **3.49S**±.036 **145.42E**±.052 **34**±4.0* **4.9b,4.9s 81 2-150**
EIDC VII 27 13 56 16.9 3.5S 145.7E 0 4.4b,4.8s **¶97vii4118**
BJI VII 27 13 56 19.2 3.45S 145.91E 35 5.1b,5.0s
NEIC VII 27 13 56 21.4 3.51S 145.32E 33 4.8b
ISC VII 27 16 30 31±1.4 **3.6S**±.16 **145.6E**±.26 **33 4.1b 9 16-84**
EIDC VII 27 16 30 26.8 3.5S 145.7E 0 3.9b,4.3L **¶97vii4135**
NEIC VII 27 16 30 30.7 3.60S 145.57E 33 4.2b
NEIC Poor solution.
ISC VIII 04 04 13 55±1.5 **4.9S**±.11 **144.5E**±.18 **33 3.7b 9 3-85**
EIDC VIII 04 04 13 51.8 3.2S 141.2E 0 3.6b,3.9L **¶97viii0455**
ISC VIII 07 13 26 37.3±.98 **2.90S**±.088 **142.2E**±.15 **100 3.6b 11 2-45**
EIDC VIII 07 13 26 28.4 2.8S 142.2E 0 3.7b,3.8L **¶97viii0946**
NEIC VIII 07 13 26 31.5 2.80S 142.01E 33 3.2b
NEIC Less reliable solution.
ISC VIII 08 04 48 28±1.0 **3.74S**±.098 **142.54E**±.098 **62**±13 **3.9b 14 1-85**
EIDC VIII 08 04 48 21.7 3.6S 142.2E 0 3.9b,3.3s **¶97viii1057**
NEIC VIII 08 04 48 25.9 3.82S 142.56E 33 3.9b
NEIC Less reliable solution.
ISC VIII 10 06 24 41±1.5 **4.2S**±.16 **145.5E**±.22 **33 4.0b 6 5-84**
EIDC VIII 10 06 24 36.4 4.8S 146.6E 0 3.9b,4.4L **¶97viii1359**
NEIC VIII 10 06 24 40.6 4.22S 145.48E 33 3.9b
NEIC Less reliable solution.
ISC VIII 29 08 14 07±2.4 **3.52S**±.029 **144.37E**±.031 **6**±14 **5.7b,6.7s 396 1-167**
EIDC VIII 29 08 14 08.1 3.5S 144.4E 0 5.2b,4.7L **¶97viii4250**
NEIC VIII 29 08 14 09.9 3.56S 144.36E 23 5.8b,6.8s
BJI VIII 29 08 14 11.4 3.64S 144.60E 37 6.1b,6.5s
MOS VIII 29 08 14 12.2 3.5S 144.5E 33 6.2b,6.4s
HRVD VIII 29 08 14 16.6±.1 3.34S±.01 144.51E±.01 15
NEIC Me6.9(GS), Mw6.6(HRV).
NEIC Mw 6.5 (GS). Ms 6.9 (BRK).
NEIC Radiated energy from the P−wave first−motion solution: 5.5±1.8×10^{14}Nm/13
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S274°,δ86°,λ0°. NP2:ϕ_S184°,δ90°,λ176°. Principal axes: T Plg3°,Azm139°; P Plg3°,Azm229°.
NEIC Moment tensor solution: s17, scale 10^{18}Nm; M_{rr}0.67; $M_{\theta\theta}$0.93; $M_{\phi\phi}$−1.60; $M_{r\theta}$−0.31; $M_{r\phi}$1.08; $M_{\theta\phi}$6.39. Depth 36km; Principal axes: T 6.22,Plg5°,Azm320°; N 0.77,Plg81°, Azm200°; P −6.99,Plg8°,Azm51°. Best double couple: M_O6.6×10^{18}Nm; NP1:ϕ_S95°,δ81°, λ−2°. NP2:ϕ_S186°,δ88°,λ−171°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c136; Mantle waves: s58,c129; Half duration: 4s5. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.53±.04; $M_{\theta\theta}$0.52±.04; $M_{\phi\phi}$0.01±.05; $M_{r\theta}$−1.01±.16; $M_{r\phi}$0.17±.18; $M_{\theta\phi}$7.43±.03. Principal Axes: T 7.74,Plg4°,Azm136°; N −0.47,Plg82°,Azm257°; P −7.27,Plg7°,Azm46°. Best double couple: M_O7.5×10^{18}Nm, NP1:ϕ_S181°,δ82°,λ−178°. NP2:ϕ_S91°,δ88°,λ−8°.
EIDC VIII 29 08 53 21.3 3.2S 144.4E 0 3.6b,3.6L **1-84**
¶97viii4257

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 31 02 07 39.6**±.74	**3.60S**±.062	**145.4E**±.14	**31**	**4.4b**,4.4s	**22**	**2-149**
BJI	VIII 31 02 07 39.1	3.50S	145.60E	31	4.7b,4.8s		¶97viii4570
NEIC	VIII 31 02 07 39.1	3.55S	145.34E	31	4.4b		
EIDC	VIII 31 02 07 39.7	3.7S	145.9E	30	3.9b,4.5L		
NEIC	Less reliable solution.						
ISC	**VIII 31 23 44 25.5**±.72	**4.45S**±.086	**144.09E**±.080	**122**±8.1	**4.3b**	**23**	**1-149**
EIDC	VIII 31 23 44 11.6	4.1S	144.1E	0	4.1b,4.4L		¶97viii4729
NEIC	VIII 31 23 44 25.0	4.42S	144.07E	118	4.3b		
NEIC	Less reliable solution.						
ISC	**IX 09 05 39 08**±8.9	**4.1S**±.80	**144.7E**±.37	**25**	3.5b	**5**	**16-28**
EIDC	IX 09 05 39 14.4	4.6S	144.8E	25	3.9L,3.5b		¶97ix1327
EIDC	**IX 10 10 12 23.3**	**3.6S**	**144.6E**	**0**	3.5b,3.4L		¶97ix1511
ISC	**IX 16 03 24 56**±1.5	**3.8S**±.17	**145.4E**±.23	**33**	**3.8b**	**5**	**3-84**
EIDC	IX 16 03 24 52.2	4.1S	146.1E	0	3.9b,4.6L		¶97ix2323
ISC	**IX 18 17 05 28**±4.0	**3.59S**±.087	**144.9E**±.10	**15**±28	**4.5b,3.6s**	**27**	**1-102**
EIDC	IX 18 17 05 26.5	3.7S	145.5E	0	4.3b,3.6s		¶97ix2688
BJI	IX 18 17 05 32.0	3.70S	144.70E	33	4.6b		
NEIC	IX 18 17 05 32.0	3.69S	144.68E	33	4.7b		
NEIC	Less reliable solution.						
ISC	**IX 23 05 25 09**±6.6	**3.52S**±.076	**145.6E**±.10	**14**±40	**4.6b,4.4s**	**31**	**2-151**
EIDC	IX 23 05 25 07.7	3.6S	145.8E	0	4.4s,4.2b		¶97ix3381
BJI	IX 23 05 25 08.9	4.02S	145.17E	35	4.8b,4.6s		
NEIC	IX 23 05 25 11.3	3.59S	145.68E	33	4.7b		
NEIC	Less reliable solution.						
EIDC	**IX 28 01 18 23.4**	**4.5S**	**145.2E**	**0**	3.6b,3.3L		¶97ix4505
ISC	**X 04 15 18 45**±1.0	**2.86S**±.067	**141.41E**±.084	**42**±10	**4.2b**,3.8s	**21**	**1-85**
EIDC	X 04 15 18 39.9	2.9S	141.9E	0	3.8b,4.3L		¶97x0673
BJI	X 04 15 18 43.9	2.55S	141.95E	29	4.7b		
NEIC	X 04 15 18 44.4	2.86S	141.44E	33	4.4b		
NEIC	Less reliable solution.						
ISC	**X 05 11 25 29**±1.3	**3.3S**±.13	**143.0E**±.10	**33**	**3.6b**	**11**	**1-28**
EIDC	X 05 11 25 20.7	2.3S	141.8E	0	3.6b,3.6L		¶97x0858
NEIC	X 05 11 25 29.3	3.40S	143.01E	33	3.6b		
NEIC	Less reliable solution.						
ISC	**X 08 11 13 59.6**±.98	**4.00S**±.073	**142.1E**±.14	**132**±11	**3.7b**	**12**	**2-86**
EIDC	X 08 11 13 53.8	3.9S	142.3E	57	3.6b		¶97x1402
NEIC	X 08 11 13 59.5	4.01S	142.13E	132	4.0b		
NEIC	Less reliable solution.						
ISC	**X 09 23 45 47**±1.6	**3.30S**±.047	**143.34E**±.060	**19**±12	**4.8b,4.5s**	**67**	**0-150**
BJI	X 09 23 45 46.2	3.19S	143.79E	28	4.9b,4.9s		¶97x1659
NEIC	X 09 23 45 46.5	3.29S	143.32E	18	4.8b,4.3s		
EIDC	X 09 23 45 48.3	3.4S	143.3E	15	4.5b,4.3L		
ISC	**X 10 00 04 17**±1.5	**3.2S**±.23	**143.3E**±.32	**18**	**3.5b**	**7**	**14-84**
EIDC	X 10 00 04 19.5	3.4S	144.0E	18	3.4b,3.4L		¶97x1662
ISC	**X 10 17 27 45**±1.5	**2.8S**±.12	**141.6E**±.14	**33**	3.4b	**7**	**1-85**
EIDC	X 10 17 27 41.2	2.6S	141.6E	0	3.3b,3.7L		¶97x1780
NEIC	X 10 17 27 44.6	2.76S	141.58E	33	3.0b		
NEIC	Less reliable solution.						
ISC	**X 25 14 08 52**±3.4	**3.3S**±.23	**144.8E**±.47	**33**	**3.6b**,3.1s	**6**	**19-50**
EIDC	X 25 14 08 47.8	3.2S	144.9E	0	3.6b,3.1s		¶97x4333
ISC	**X 30 01 49 23**±2.3	**5.0S**±.20	**144.5E**±.21	**121**±16	**3.6b**	**8**	**1-51**
EIDC	X 30 01 49 13.8	4.7S	144.1E	0	3.6b,3.7L		¶97x4974
NEIC	X 30 01 49 22.8	4.98S	144.46E	122	3.2b		
NEIC	Poor solution.						
ISC	**XI 07 03 39 49**±5.1	**3.9S**±.31	**144.5E**±.19	**13**±48	**4.3b**	**10**	**1-28**
EIDC	XI 07 03 39 44.0	3.5S	144.6E	0	4.1b,4.3L		¶97xi1069
NEIC	XI 07 03 39 49.7	3.79S	144.55E	33	4.4b		
NEIC	Less reliable solution.						
ISC	**XI 11 03 26 17**±1.3	**3.0S**±.12	**142.2E**±.10	**45**±16	**3.8b**,3.4s	**11**	**2-144**
EIDC	XI 11 03 26 11.3	2.7S	141.8E	0	3.7b,3.9L		¶97xi1719
NEIC	XI 11 03 26 15.8	2.99S	142.20E	33	3.8b		
NEIC	Less reliable solution.						
DJA	**XI 14 22 39 42.1**±1.20	**3.5S**	**142.3E**	**100**	5.7D,4.3L		**2-2**
							¶97xi2367
DJA	Error ellipse is semi−major=142.8km semi−minor=30.1km azimuth=27						
ISC	**XI 23 18 03 02**±1.4	**3.48S**±.069	**145.84E**±.089	**56**±12	**4.5b,3.6s**	**43**	**2-157**
BJI	XI 23 18 02 59.0	3.40S	146.07E	41			¶97xi4168
NEIC	XI 23 18 02 59.1	3.41S	145.80E	33	4.8b		
EIDC	XI 23 18 03 01.6	3.5S	146.0E	39	4.0b,3.6s		
ISC	**XI 23 18 36 37**±1.8	**3.40S**±.035	**145.78E**±.041	**26**±13	**5.2b,4.6s**	**145**	**2-167**
EIDC	XI 23 18 36 34.0	3.4S	146.0E	0	5.0b,4.7s		¶97xi4173
HRVD	XI 23 18 36 37.2±.7	3.49S±.07	146.12E±.08	15			
MOS	XI 23 18 36 37.6	3.4S	145.8E	33	5.8b		
NEIC	XI 23 18 36 37.6	3.41S	145.75E	33	5.2b,4.6s		
BJI	XI 23 18 36 38.0	3.33S	145.80E	35	5.2b,4.8s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c36; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.35±.53; $M_{\theta\theta}$−7.65±.45; $M_{\phi\phi}$2.30±.80; $M_{r\theta}$0.95±2.27; $M_{r\phi}$−5.57±1.53; $M_{\theta\phi}$1.90±.46. Principal Axes: T 9.61,Plg52°,Azm92°; N −1.27,Plg36°,Azm293°; P −8.34,Plg10°,Azm195°. Best double couple: $M_0$9.0×10^{16}Nm, NP1:ϕ_S250°,δ47°,λ37°. NP2:ϕ_S133°,δ64°,λ131°.						
NEIC	Mw5.3(HRV).						
ISC	**XII 12 15 01 57**±1.5	**3.64S**±.041	**143.13E**±.059	**7**±10	**4.6b,4.2s**	**68**	**0-148**
EIDC	XII 12 15 01 57.3±.74	3.7S	143.2E	0	4.4b,4.1s		¶97xii2767
BJI	XII 12 15 01 58.2	3.70S	143.10E	15	4.6b,5.0s		
NEIC	XII 12 15 01 58.2	3.66S	143.13E	15	4.6b		
EIDC	Error ellipse is semi−major=29.8km semi−minor=13.9km azimuth=94						
ISC	**XII 12 17 19 16**±3.7	**3.7S**±.10	**142.6E**±.36	**90**±29	**3.3b**	**11**	**2-147**
EIDC	XII 12 17 19 05.1±1.71	3.8S	143.3E	0	3.3b,3.7L		¶97xii2791
NEIC	XII 12 17 19 06.3	3.76S	143.08E	10	3.3b		
EIDC	Error ellipse is semi−major=94.0km semi−minor=26.1km azimuth=117						
NEIC	Less reliable solution.						
ISC	**XII 16 22 42 07**±1.8	**3.61S**±.087	**143.21E**±.086	**12**±14	**4.5b**	**31**	**0-148**
BJI	XII 16 22 42 06.9	2.91S	143.77E	5	4.6b		¶97xii3517
NEIC	XII 16 22 42 07.1	3.69S	143.19E	10	4.3b		
EIDC	XII 16 22 42 08.3±1.09	3.8S	143.1E	0	4.3b,4.3L		
EIDC	Error ellipse is semi−major=46.8km semi−minor=23.4km azimuth=109						
DJA	**XII 20 03 04 49.0**±1.13	**2.5S**	**141.9E**	**100**	5.7D,4.3L		**1-1**
							¶97xii4074
DJA	Error ellipse is semi−major=135.1km semi−minor=30.3km azimuth=174						
ISC	**XII 23 13 11 32.8**±.58	**4.49S**±.064	**144.54E**±.077	**188**±5.2	**4.0b**	**35**	**1-150**
NEIC	XII 23 13 11 32.8	4.50S	144.53E	188	4.6b		¶97xii4602
EIDC	XII 23 13 11 33.7±2.75	4.5S	144.7E	182±25.9	3.7b		
EIDC	Error ellipse is semi−major=31.9km semi−minor=14.0km azimuth=98						
ISC	**XII 27 03 04 33**±1.6	**2.8S**±.17	**142.3E**±.16	**33**	**3.5b**	**6**	**2-84**
EIDC	XII 27 03 04 29.3±1.87	2.4S	141.3E	0	3.5b,3.7L		¶97xii5236
EIDC	Error ellipse is semi−major=143.3km semi−minor=28.1km azimuth=108						
ISC	**XII 27 20 43 47**±1.2	**3.51S**±.055	**145.97E**±.065	**53**±11	**4.4b**,4.0s	**59**	**2-151**
EIDC	XII 27 20 43 41.3±.88	3.5S	146.1E	0	4.5b,4.0L		¶97xii5345
NEIC	XII 27 20 43 44.8	3.45S	145.94E	33	4.6b		
BJI	XII 27 20 43 45.0	2.84S	146.75E	39	5.0b		
EIDC	Error ellipse is semi−major=33.9km semi−minor=13.5km azimuth=97						
ISC	**XII 31 03 34 53**±1.4	**2.9S**±.13	**141.4E**±.16	**33**	**3.5b**	**7**	**1-85**
EIDC	XII 31 03 34 49.8±1.85	2.9S	141.5E	0	3.5b,3.4L		¶97xii5831
DJA	XII 31 03 34 50.3±1.04	1.8S	140.6E	2	5.1D		
EIDC	Error ellipse is semi−major=129.1km semi−minor=27.7km azimuth=108						
DJA	Error ellipse is semi−major=20.2km semi−minor=12.8km azimuth=96						

(201) West Irian.

DJA	**VII 01 08 28 54.0**	**3.6S**	**140.8E**	**33**	5.3D,3.7L		**1-1**
ISC	DJA magnitude values may be overestimated						¶97vii0048
ISC	**VII 02 21 09 46.4**±.98	**4.0S**±.11	**140.4E**±.18	**69**±32		**8**	**1-21**
							¶97vii0300
ISC	**VII 03 10 20 56.1**±.74	**3.71S**±.034	**140.16E**±.053	**45**±7.9	**4.6b,4.5s**	**95**	**1-159**
BJI	VII 03 10 20 53.9	3.71S	140.22E	29	5.0b,4.8s		¶97vii0392
NEIC	VII 03 10 20 54.3	3.74S	140.07E	33	5.0b,4.3s		
EIDC	VII 03 10 20 54.4	3.7S	139.9E	19	4.2b,4.6s		
HRVD	VII 03 10 21 02.6±.8	3.61S±.08	140.24E±.06	19±6.5			
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c37; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.13±.35; $M_{\theta\theta}$−5.16±.41; $M_{\phi\phi}$5.29±.56; $M_{r\theta}$−6.04±2.22; $M_{r\phi}$2.77±1.34; $M_{\theta\phi}$4.85±.40. Principal Axes: T 7.2,Plg5°,Azm289°; N 3.9, Plg58°,Azm191°; P −11.1,Plg31°,Azm22°. Best double couple: $M_0$9.1×10^{16}Nm, NP1:ϕ_S61°, δ65°,λ−20°. NP2:ϕ_S160°,δ72°,λ−153°.						
DJA	**VII 03 10 42 14.8**	**3.5S**	**140.2E**	**33**	5.4D		**1-1**
ISC	DJA magnitude values may be overestimated						¶97vii0395
DJA	**VII 03 21 58 21.6**	**3.6S**	**140.2E**	**33**	4.1L		**1-1**
							¶97vii0460
ISC	**VII 04 11 39 34**±1.0	**5.52S**±.074	**140.8E**±.16	**41**±16	**3.8b**	**11**	**1-88**
EIDC	VII 04 11 39 29.4	5.6S	141.3E	0	3.8b,3.6L		¶97vii0551
NEIC	VII 04 11 39 33.3	5.45S	140.59E	33	3.6b		
NEIC	Poor solution.						
ISC	**VII 05 18 15 29**±1.5	**2.3S**±.16	**138.6E**±.12	**33**	**3.4b**	**9**	**2-85**
EIDC	VII 05 18 15 25.3	2.2S	139.1E	0	3.4b,3.9L		¶97vii0766
ISC	**VII 07 09 44 35**±1.0	**2.74S**±.035	**138.91E**±.046	**50**±9.9	**5.1b,4.8s**	**156**	**2-168**
BJI	VII 07 09 44 32.3	2.69S	139.02E	28	5.3b,4.8s		¶97vii1025
EIDC	VII 07 09 44 32.6	2.7S	139.0E	18	4.8b,4.7s		
NEIC	VII 07 09 44 33.0	2.73S	138.89E	33	5.1b,4.8s		
MOS	VII 07 09 44 33.2	2.6S	139.1E	33	5.6b		
HRVD	VII 07 09 44 40.1±1.5	2.74S±.12	139.09E±.10	15			
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c37; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.31±.62; $M_{\theta\theta}$−7.20±.61; $M_{\phi\phi}$−0.10±.94; $M_{r\theta}$−7.05±2.96; $M_{r\phi}$2.30±2.21; $M_{\theta\phi}$3.23±.60. Principal Axes: T 10.3,Plg68°,Azm195°; N 1.1, Plg2°,Azm290°; P −11.4,Plg22°,Azm20°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S114°, δ23°,λ95°. NP2:ϕ_S289°,δ67°,λ88°.						
ISC	**VII 09 09 53 30**±1.3	**3.3S**±.13	**138.4E**±.12	**33**	3.4b	**11**	**2-87**
EIDC	VII 09 09 53 25.0	3.1S	138.4E	0	4.1L,3.5b		¶97vii1315
NEIC	VII 09 09 53 28.9	3.28S	138.67E	33	3.9b		
DJA	VII 09 09 53 36.4	0.8S	140.5E	100	5.7D,5.1L		
ISC	DJA magnitude values may be overestimated						
NEIC	Poor solution.						
DJA	**VII 11 07 17 26.4**	**3.1S**	**140.1E**	**100**	5.5D		**1-1**
ISC	DJA magnitude values may be overestimated						¶97vii1642
DJA	**VII 16 04 47 24.2**	**3.4S**	**140.6E**	**33**	5.3D,3.6L		**1-1**
ISC	DJA magnitude values may be overestimated						¶97vii2388
ISC	**VII 16 09 46 05**±5.1	**2.3S**±.19	**138.4E**±.35	**48**±49	**3.8b**	**8**	**2-86**
EIDC	VII 16 09 45 59.9	2.3S	139.0E	0	3.8b,4.0L		¶97vii2417
NEIC	VII 16 09 46 03.3	2.22S	138.29E	33			
NEIC	Less reliable solution.						
DJA	**VII 17 02 42 24.8**	**3.6S**	**140.6E**	**100**	4.0L		**1-1**
							¶97vii2534
DJA	**VII 17 07 01 05.4**	**4.2S**	**139.4E**	**33**	5.4D,2.8L		**2-2**
ISC	DJA magnitude values may be overestimated						¶97vii2561
EIDC	**VII 19 06 07 49.3**	**4.6S**	**137.4E**	**0**	3.3L,4.0b		**16-27**
							¶97vii2838
DJA	**VII 21 07 54 34.8**	**3.7S**	**140.0E**	**33**	5.4D,4.8L		**1-2**
ISC	DJA magnitude values may be overestimated						¶97vii3216
DJA	**VII 25 02 01 51.6**	**3.5S**	**140.1E**	**33**	4.8L		**1-17**
							¶97vii3756
DJA	**VII 25 05 27 13.9**	**3.1S**	**140.3E**	**100**	5.5D		**1-1**
ISC	DJA magnitude values may be overestimated						¶97vii3779
DJA	**VII 26 11 24 06.6**	**3.5S**	**140.8E**	**33**	5.4D		**1-1**
ISC	DJA magnitude values may be overestimated						¶97vii3959
DJA	**VII 27 11 32 47.9**	**3.6S**	**140.2E**	**33**	5.3D,3.6L		**1-1**
ISC	DJA magnitude values may be overestimated						¶97vii4101
ISC	**VII 27 16 50 39**±1.2	**3.45S**±.098	**139.9E**±.17	**33**		**6**	**1-17**
DJA	VII 27 16 50 41.2	3.6S	140.2E	33	5.4D,4.9L		¶97vii4139
ISC	DJA magnitude values may be overestimated						
ISC	**VII 28 04 27 53.9**±.98	**3.44S**±.097	**139.9E**±.18	**33**	3.6b	**10**	**1-75**
NEIC	VII 28 04 27 53.6	3.68S	140.69E	33	3.5b		¶97vii4210
EIDC	VII 28 04 27 56.9	4.7S	141.8E	0	3.5b,3.7L		
NEIC	Less reliable solution.						
DJA	**VII 29 01 43 14.0**	**3.6S**	**140.3E**	**10**	5.2D,4.7L		**1-1**
ISC	DJA magnitude values may be overestimated						¶97vii4362
ISC	**VII 30 16 49 44.6**±.77	**3.69S**±.076	**140.4E**±.21	**33**	**4.1b**,3.4s	**15**	**1-86**
EIDC	VII 30 16 49 38.5	3.8S	141.5E	0	4.1b,3.4s		¶97vii4610
NEIC	VII 30 16 49 42.9	3.80S	140.84E	33	4.1b		
DJA	VII 30 16 49 48.0	3.0S	140.8E	111	5.8D		
ISC	DJA magnitude values may be overestimated						
NEIC	Less reliable solution.						
DJA	**VII 31 11 20 14.7**	**3.4S**	**140.2E**	**33**	5.3D,3.1L		**1-1**
ISC	DJA magnitude values may be overestimated						¶97vii4719
EIDC	**VIII 01 15 07 18.9**	**3.2S**	**140.3E**	**0**	3.7b,3.6L		**1-29**
							¶97viii0081
DJA	**VIII 03 04 18 50.7**	**4.0S**	**139.7E**	**33**	5.4D,4.9L		**2-2**
ISC	DJA magnitude calculations may be overestimated						¶97viii0295
DJA	**VIII 03 21 06 42.4**	**3.4S**	**140.2E**	**13**	5.1D,3.4L		**1-1**
ISC	DJA magnitude calculations may be overestimated						¶97viii0412
DJA	**VIII 04 00 50 34.7**	**3.3S**	**140.1E**	**33**	5.3D,4.1L		**1-1**
ISC	DJA magnitude calculations may be overestimated						¶97viii0438
ISC	**VIII 04 02 57 22**±2.4	**3.0S**±.16	**139.3E**±.23	**45**±27	**3.6b**	**12**	**1-160**
EIDC	VIII 04 02 57 16.5	3.2S	140.8E	0	3.5b,3.7L		¶97viii0449
NEIC	VIII 04 02 57 20.4	2.90S	139.17E	33	3.6b		
NEIC	Less reliable solution.						
ISC	**VIII 04 04 43 54**±1.4	**4.6S**±.31	**138.8E**±.46	**100**		**9**	**3-20**
EIDC	VIII 04 04 43 29.0	3.2S	140.7E	0	3.8b,3.8L		¶97viii0458
DJA	**VIII 05 22 05 37.9**	**3.6S**	**140.3E**	**100**	5.7D,**5.0L**		**1-122**
NEIC	VIII 05 22 05 30.1	4.05S	141.45E	33			¶97viii0722
EIDC	VIII 05 22 05 51.1	4.8S	141.6E	201	3.5b		

NEIC Less reliable solution.
ISC DJA magnitude calculations may be overestimated
ISC VIII 07 07 24 40±1.6 **3.14S**±.087 **139.6E**±.14 **37**±19 **4.2b** **23 1-146**
NEIC VIII 07 07 24 38.3 3.22S 139.90E 33 4.6b **¶97viii0902**
EIDC VIII 07 07 24 41.4 3.2S 139.9E 45 3.9b,4.2L
NEIC Less reliable solution.
ISC VIII 08 06 30 41±2.4 **3.1S**±.43 **139.7E**±.47 **33** **5 1-17**
DJA VIII 08 06 30 43.7 2.2S 140.6E 100 5.5D **¶97viii1064**
ISC DJA magnitude calculations may be overestimated
ISC VIII 08 12 08 58±1.3 **3.11S**±.089 **140.8E**±.25 **33** **3.6b** **8 1-29**
EIDC VIII 08 12 08 53.5 3.2S 141.3E 0 3.7b,3.9L **¶97viii1115**
NEIC VIII 08 12 08 55.3 3.10S 141.25E 33 3.4b
NEIC Poor solution.
ISC VIII 08 14 12 58±1.4 **3.2S**±.11 **140.0E**±.17 **58**±18 **3.8b**,3.1s **13 1-86**
EIDC VIII 08 14 12 50.0 2.4S 137.2E 0 3.8b,4.0L **¶97viii1124**
NEIC VIII 08 14 12 56.6 3.45S 140.31E 33 3.9b
NEIC Less reliable solution.
DJA VIII 09 16 46 06.2 **3.1S** **140.1E** **100** 5.6D **1-1**
ISC DJA magnitude calculations may be overestimated **¶97viii1286**
DJA VIII 09 18 09 39.3 **4.4S** **139.2E** **33** 5.4D **2-2**
ISC DJA magnitude calculations may be overestimated **¶97viii1300**
ISC VIII 10 21 06 20±3.6 **2.6S**±.17 **138.9E**±.18 **38**±36 **3.8b** **9 4-86**
EIDC VIII 10 21 06 15.1 2.5S 139.2E 0 3.6b,4.3L **¶97viii1459**
NEIC VIII 10 21 06 19.2 2.60S 138.87E 33 3.6b
NEIC Less reliable solution.
ISC VIII 11 18 50 30.0±.90 **3.60S**±.090 **140.2E**±.18 **100** **6 1-17**
DJA VIII 11 18 50 34.1 3.1S 140.5E 118 5.6D **¶97viii1607**
ISC DJA magnitude calculations may be overestimated
DJA VIII 14 18 23 50.7 **3.2S** **140.7E** **33** 5.5D **1-1**
ISC DJA magnitude calculations may be overestimated **¶97viii2097**
ISC VIII 14 21 14 00±1.4 **4.1S**±.19 **140.9E**±.75 **58**±56 **6 1-21**
¶97viii2113
ISC VIII 15 13 28 04±3.0 **3.1S**±.19 **140.4E**±.88 **100** **4 1-2**
DJA VIII 15 13 28 04.5 3.1S 140.4E 100 5.6D **¶97viii2226**
ISC DJA magnitude calculations may be overestimated, Poorly determined
ISC VIII 16 00 44 31±2.1 **3.0S**±.15 **136.8E**±.14 **64**±22 **4.0b** **12 4-87**
DJA VIII 16 00 44 21.2 0.2N 137.0E 33 5.6D,4.9L **¶97viii2297**
EIDC VIII 16 00 44 23.4 2.8S 136.5E 0 4.2b,4.3L
NEIC VIII 16 00 44 27.7 2.94S 136.84E 33 4.1b
ISC DJA magnitude calculations may be overestimated
NEIC Less reliable solution.
ISC VIII 17 02 52 40.6±.70 **5.66S**±.065 **140.8E**±.15 **33** **4.0b** **16 1-146**
EIDC VIII 17 02 52 35.9 5.1S 140.1E 0 4.0b,4.0L **¶97viii2465**
ISC VIII 18 13 15 50±2.2 **4.39S**±.092 **138.5E**±.40 **147**±41 3.8b **10 3-45**
NEIC VIII 18 13 15 46.8 4.34S 138.19E 100 3.9b **¶97viii2683**
EIDC VIII 18 13 15 53.3 4.5S 138.4E 159 3.6b
NEIC Less reliable solution.
DJA VIII 19 12 15 15.8 **3.4S** **139.9E** **14** 5.2D,**5.0L** **1-17**
ISC DJA magnitude calculations may be overestimated **¶97viii2806**
ISC VIII 21 08 45 55±1.7 **3.63S**±.096 **140.3E**±.26 **13**±14 **4.0b** **13 1-86**
EIDC VIII 21 08 45 54.1 3.6S 140.6E 0 4.2b,4.1L **¶97viii3073**
NEIC VIII 21 08 45 56.9 3.64S 140.36E 33 4.2b
DJA VIII 21 08 45 58.4 3.1S 140.7E 115 5.7D
ISC DJA magnitude calculations may be overestimated
NEIC Less reliable solution.
DJA VIII 21 08 51 33.9 **3.5S** **140.4E** **100** 5.5D,4.6L **1-1**
ISC DJA magnitude calculations may be overestimated **¶97viii3075**
DJA VIII 21 09 55 08.6 **3.8S** **140.2E** **33** 5.4D,4.9L **1-1**
ISC DJA magnitude calculations may be overestimated **¶97viii3082**
ISC VIII 21 12 20 33±2.6 **3.5S**±.14 **138.1E**±.22 **64**±27 **3.8b** **13 3-87**
NEIC VIII 21 12 20 30.2 3.43S 137.98E 33 3.9b **¶97viii3093**
DJA VIII 21 12 20 36.9 0.2S 140.8E 100 5.7D,5.1L
EIDC VIII 21 12 20 43.4 3.5S 137.6E 155 3.7b
ISC DJA magnitude calculations may be overestimated
NEIC Less reliable solution.
EIDC VIII 25 00 18 59.1 **3.8S** **139.6E** **0** 4.0b,4.0L **17-28**
¶97viii3609
EIDC VIII 25 22 00 31.0 **3.8S** **136.1E** **0** 3.8L,3.3b **16-43**
¶97viii3746
DJA IX 01 13 53 24.2 **4.2S** **140.6E** **33** 5.5D,4.2L **¶97ix0109**
EIDC IX 02 04 13 39.0 **4.2S** **139.3E** **79** 2.7b **¶97ix0220**
DJA IX 02 20 02 46.2 **4.4S** **139.8E** **100** 5.6D,3.6L **¶97ix0318**
DJA IX 03 12 01 08.4 **3.0S** **140.2E** **2** 5.0D **¶97ix0424**
ISC IX 04 07 42 48±2.5 **4.4S**±.21 **140.1E**±.23 **127**±24 3.0b **12 1-145**
EIDC IX 04 07 42 34.4 4.0S 140.1E 0 3.6b,4.7L **¶97ix0564**
NEIC IX 04 07 42 37.2 4.09S 140.24E 33 3.9b
NEIC Less reliable solution.
EIDC IX 06 00 20 01.3 **2.8S** **137.9E** **0** 3.9b,4.3L **¶97ix0823**
ISC IX 07 07 05 52±8.3 **4.8S**±.75 **138.5E**±.45 **33** 4.6b **6 3-28**
¶97ix1023
EIDC IX 09 07 08 56.1 **2.8S** **138.5E** **0** 3.6L,3.0b **¶97ix1337**
ISC IX 10 08 31 56.7±.91 **3.6S**±.11 **140.2E**±.25 **33** **4.1b**,3.6s **13 17-146**
NEIC IX 10 08 31 56.4 3.62S 140.19E 33 4.2b **¶97ix1499**
EIDC IX 10 08 31 58.1 3.6S 140.4E 32 4.0b,3.4s
NEIC Less reliable solution.
ISC IX 10 13 54 10±5.0 **3.5S**±.12 **140.2E**±.27 **40**±45 **4.1b** **14 9-86**
EIDC IX 10 13 54 06.1 3.4S 140.2E 0 3.9b,4.4L **¶97ix1528**
BJI IX 10 13 54 09.1 3.50S 140.20E 33 4.7b
NEIC IX 10 13 54 09.1 3.48S 140.20E 33 4.4b
EIDC IX 12 11 52 49.3 **3.2S** **139.9E** **0** 3.4b,3.9L **¶97ix1809**
ISC IX 15 16 10 29±4.0 **3.37S**±.080 **141.0E**±.34 **10**±21 **3.8b** **13 1-145**
EIDC IX 15 16 10 28.6 3.4S 141.1E 0 3.6b,4.0L **¶97ix2262**
NEIC IX 15 16 10 31.2 3.33S 140.93E 33 3.7b
DJA IX 15 16 10 35.1 3.3S 140.6E 8 5.3D
NEIC Less reliable solution.
DJA IX 16 21 30 37.5 **3.6S** **140.1E** **33** 5.4D,3.6L **¶97ix2430**
DJA IX 17 02 55 10.6 **2.2S** **138.7E** **33** 5.5D,**4.4L** **¶97ix2460**
ISC IX 17 06 41 13.5±.90 **3.01S**±.055 **140.63E**±.095 **26**±8.4 **4.1b** **20 0-146**
BJI IX 17 06 41 13.6 3.00S 140.70E 33 **¶97ix2477**
NEIC IX 17 06 41 13.6 2.99S 140.66E 33 4.0b
EIDC IX 17 06 41 17.0 3.2S 141.5E 40 3.7b,3.9L
NEIC Less reliable solution.
NEIC Felt I=III MM at Jayapura.
DJA IX 18 02 58 12.0 **3.6S** **139.7E** **33** 5.3D,3.7L **¶97ix2600**
ISC IX 18 16 44 03.7±.50 **4.57S**±.064 **139.1E**±.11 **10** **4.0b** **19 2-146**
DJA IX 18 16 43 58.3 4.6S 138.9E 200 5.8D,4.9L **¶97ix2686**
NEIC IX 18 16 44 03.6 4.59S 139.14E 10 4.1b
EIDC IX 18 16 44 04.2 4.5S 139.2E 0 3.9b,4.2L
NEIC Less reliable solution.
ISC IX 18 19 39 42±1.5 **3.7S**±.12 **137.0E**±.38 **33** **3.7b** **8 16-66**
EIDC IX 18 19 39 39.7 3.6S 136.9E 0 3.7b,3.7L **¶97ix2704**
NEIC IX 18 19 39 41.3 3.68S 137.16E 33 3.5b
NEIC Poor solution.
EIDC IX 19 08 45 14.1 **3.8S** **140.3E** **0** 3.6b,3.6L **¶97ix2765**
DJA IX 19 21 43 47.3 **3.3S** **139.8E** **33** 5.4D,3.9L **¶97ix2855**
DJA IX 21 01 01 51.0 **3.7S** **140.3E** **33** 5.4D,4.3L **¶97ix3022**
DJA IX 22 02 03 15.6 **3.3S** **138.0E** **33** 4.4L **¶97ix3199**
DJA IX 23 07 20 29.6 **3.3S** **139.4E** **33** 5.5D,**4.7L** **¶97ix3389**
ISC IX 24 07 00 55±1.2 **3.4S**±.12 **138.6E**±.23 **33** 3.9b **8 17-147**
NEIC IX 24 07 00 55.7 3.45S 138.54E 33 3.8b **¶97ix3540**
EIDC IX 24 07 00 58.1 3.5S 138.7E 40 3.7b,3.9L
NEIC Less reliable solution.
ISC IX 26 14 16 01.4±.85 **3.15S**±.033 **139.08E**±.040 **38**±8.6 **5.2b,5.1s** **155 1-160**
DJA IX 26 14 15 55.3 4.2S 139.4E 2 5.3L,5.3D **¶97ix4037**
EIDC IX 26 14 15 58.3 3.1S 139.0E 0 5.0b,5.1L
BJI IX 26 14 16 00.1 3.15S 139.33E 37 5.3b,4.9s
NEIC IX 26 14 16 00.9 3.15S 139.08E 33 5.3b,5.3s
MOS IX 26 14 16 01.2 3.1S 138.8E 33 5.6b,5.0s
HRVD IX 26 14 16 05.1±.4 3.36S±.05 139.33E±.05 44±4.3
NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c48; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}9.12±.47; $M_{\theta\theta}$−3.64±.64; $M_{\phi\phi}$−5.48±.76; $M_{r\theta}$6.94±1.14; $M_{r\phi}$−2.65±.94; $M_{\theta\phi}$7.23±.57. Principal Axes: T 12.2,Plg66°,Azm356°; N 1.6, Plg18°,Azm130°; P −13.8,Plg16°,Azm225°. Best double couple: M$_0$1.3×10^{17}Nm, NP1: ϕ_S340°,δ32°,λ124°. NP2:ϕ_S121°,δ64°,λ70°.
EIDC IX 26 14 51 35.3 **3.5S** **140.7E** **0** 4.0b,4.1L **¶97ix4050**
EIDC X 01 12 35 16.8 **4.4S** **139.4E** **0** **3.7L**,4.0b **¶97x0084**
EIDC X 01 16 19 22.1 **4.2S** **140.8E** **0** 3.5b,3.8L **¶97x0119**
EIDC X 05 03 18 07.6 **4.7S** **140.0E** **0** **3.4L**,4.1b **¶97x0787**
ISC X 06 21 35 45±1.4 **3.5S**±.20 **139.6E**±.30 **33** **7 1-21**
NEIC X 06 21 35 45.0 3.51S 139.62E 33 3.8b **¶97x1124**
NEIC Less reliable solution.
DJA X 07 18 05 43.1 **3.3S** **140.5E** **100** 5.5D **¶97x1284**
EIDC X 07 22 17 12.5 **2.2S** **137.8E** **0** 3.8b,3.6L **¶97x1310**
EIDC LO CONF Location
DJA X 08 00 43 18.3 **3.2S** **140.2E** **33** 5.3D **¶97x1329**
DJA X 08 11 42 52.6 **5.3S** **141.0E** **200** 5.8D,**4.1L** **¶97x1405**
ISC X 10 16 46 46±3.6 **3.2S**±.11 **140.3E**±.64 **33** **4 1-2**
DJA X 10 16 46 43.3 3.4S 140.3E 33 5.4D,4.4L **¶97x1773**
ISC Poorly determined
DJA X 10 20 40 43.0 **3.9S** **140.1E** **33** 5.4D,3.7L **¶97x1798**
ISC X 11 13 23 02±5.7 **4.51S**±.060 **140.1E**±.13 **4**±41 3.6b **12 1-87**
EIDC X 11 13 23 02.7 4.5S 140.3E 0 3.6b,3.7L **¶97x1898**
NEIC X 11 13 23 05.4 4.50S 140.18E 33 4.0b
NEIC Less reliable solution.
ISC X 12 20 34 04±4.0 **2.3S**±.18 **138.2E**±.26 **43**±45 **3.5b** **7 2-86**
EIDC X 12 20 33 59.5 2.2S 138.4E 0 3.5b,3.6L **¶97x2099**
NEIC X 12 20 34 03.2 2.28S 138.18E 33
NEIC M_L4.5(DJA), Less reliable solution.
DJA X 12 20 56 17.7 **4.1S** **139.4E** **200** 5.7D,4.0L **¶97x2103**
ISC X 13 00 43 38±2.4 **3.3S**±.69 **139.7E**±.53 **88**±61 4.0b **6 1-21**
NEIC X 13 00 43 37.9 3.15S 139.65E 100 3.8b **¶97x2136**
NEIC Poor solution.
DJA X 15 20 27 45.8 **3.3S** **140.2E** **33** 5.3D **¶97x2708**
ISC X 18 00 32 18±2.1 **2.2S**±.12 **138.9E**±.13 **34**±23 **4.0b** **15 1-148**
EIDC X 18 00 32 14.7 2.2S 139.0E 0 3.9b,4.1L **¶97x3077**
DJA X 18 00 32 15.4 1.8S 138.8E 33 5.6D,5.2L
NEIC X 18 00 32 17.7 2.24S 138.94E 33 4.0b
ISC X 19 04 13 52±1.1 **3.3S**±.12 **139.8E**±.16 **33** 4.5b **7 1-21**
NEIC X 19 04 13 51.6 3.32S 139.79E 33 4.6b **¶97x3285**
DJA X 19 04 13 52.8 3.5S 140.1E 33 5.5D,4.8L
NEIC Less reliable solution.
ISC X 22 23 19 02±1.4 **2.4S**±.18 **138.9E**±.30 **33** **4.2b** **10 12-86**
EIDC X 22 23 18 58.3 2.4S 139.1E 0 4.0b,4.7L **¶97x3894**
NEIC X 22 23 19 01.7 2.45S 138.88E 33 4.1b
NEIC Poor solution.
ISC X 26 07 10 41±2.5 **3.3S**±.11 **139.9E**±.18 **8**±21 **4.3b**,3.1s **13 1-146**
EIDC X 26 07 10 42.3 3.3S 140.0E 0 4.0b,3.3s **¶97x4430**
NEIC X 26 07 10 45.0 3.35S 139.96E 33
NEIC Less reliable solution.
ISC X 26 21 07 39±1.5 **3.17S**±.097 **137.3E**±.10 **54**±20 **3.9b**,2.9s **10 3-66**
NEIC X 26 21 07 37.8 3.23S 137.36E 33 4.0b **¶97x4524**
EIDC X 26 21 07 46.4 3.2S 137.0E 100 3.7b,2.9s
NEIC Less reliable solution.
EIDC XI 01 14 32 30.6 **4.0S** **136.9E** **0** 3.7L,3.7b **¶97xi0095**
ISC XI 01 17 19 09.0±.96 **3.6S**±.11 **140.0E**±.19 **61**±31 4.0b **10 1-26**
NEIC XI 01 17 19 08.2 3.64S 139.87E 33 4.1b **¶97xi0108**
NEIC Less reliable solution.
ISC XI 02 02 15 11±2.6 **3.1S**±.20 **138.8E**±.27 **56**±26 **3.7b** **11 2-86**
EIDC XI 02 02 15 05.8 3.3S 140.1E 0 3.7b,3.9L **¶97xi0183**
NEIC XI 02 02 15 15.1 3.58S 139.56E 100 3.7b
NEIC Less reliable solution.
ISC XI 03 03 46 00.6±.76 **3.03S**±.079 **136.4E**±.11 **33** **4.2b**,3.8s **17 10-149**
NEIC XI 03 03 46 00.6 3.04S 136.41E 33 4.3b **¶97xi0395**
EIDC XI 03 03 46 02.4 3.0S 136.4E 28 4.0b,4.3L
NEIC Less reliable solution.
EIDC XI 09 16 57 42.4 **2.4S** **138.7E** **0** 3.7b,4.0L **¶97xi1474**
ISC XI 12 07 38 08±1.3 **3.5S**±.18 **140.2E**±.30 **105**±48 **7 1-17**
NEIC XI 12 07 38 07.6 3.57S 140.13E 100 3.4b **¶97xi1953**
DJA XI 12 07 38 09.1±1.00 2.1S 139.9E 126±18.4 5.7D,4.4L
NEIC Less reliable solution.
DJA Error ellipse is semi−major=101.2km semi−minor=58.5km azimuth=3
ISC XI 14 17 18 08.4±.58 **4.81S**±.061 **139.17E**±.079 **33** **4.0b** **26 2-146**
DJA XI 14 17 18 01.8±1.28 2.1S 138.0E 33 6.1L,5.6D **¶97xi2325**
NEIC XI 14 17 18 06.2 4.53S 139.33E 33 4.2b
EIDC XI 14 17 18 07.4 4.8S 138.8E 0 3.9b,4.3L
DJA Error ellipse is semi−major=274.1km semi−minor=27.7km azimuth=14
ISC XI 16 10 23 22.6±.66 **3.1S**±.11 **140.2E**±.19 **33** **4.0b** **13 1-146**
EIDC XI 16 10 23 20.9 3.1S 140.2E 0 3.7b,3.5s **¶97xi2632**
NEIC XI 16 10 23 22.0 3.04S 140.06E 33 4.1b
DJA XI 16 10 23 23.2±1.04 3.1S 140.1E 33 5.4D
NEIC Less reliable solution.
DJA Error ellipse is semi−major=40.1km semi−minor=23.3km azimuth=131
ISC XI 19 15 53 45±1.1 **3.13S**±.068 **139.8E**±.14 **113**±13 **3.9b** **20 1-86**
NEIC XI 19 15 53 45.3 3.14S 139.83E 113 4.1b **¶97xi3251**
EIDC XI 19 15 53 53.1 3.3S 139.6E 171 3.5b
NEIC Less reliable solution.
ISC XI 20 09 01 37±1.9 **2.1S**±.16 **137.8E**±.94 **33** **3.6b** **5 18-149**
EIDC XI 20 09 01 33.5 2.0S 138.0E 0 3.7b,3.3L **¶97xi3426**
ISC Poorly determined

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XI**	**24 03 37 51.8**±.68	**3.66S**±.081	**140.5E**±.18	**107**±12	3.4b	**12**	**1-86**
EIDC	XI	24 03 37 40.1	3.6S	141.2E	0	3.5b,4.6L		¶97xi4256
NEIC	XI	24 03 37 51.9	3.65S	140.44E	107	3.8b		
NEIC	Less reliable solution.							
ISC	**XI**	**27 06 33 43**±2.0	**3.03S**±.099	**137.0E**±.15	**106**±22	**3.7b**	**13**	**4-149**
EIDC	XI	27 06 33 32.4	2.7S	137.2E	0	4.0b,3.4s		¶97xi4814
NEIC	XI	27 06 33 34.9	2.75S	137.38E	33	4.0b		
NEIC	Less reliable solution.							
ISC	**XII**	**04 19 10 16**±2.1	**3.1S**±.10	**138.5E**±.15	**65**±23	**3.6b**	**13**	**2-86**
EIDC	XII	04 19 10 08.7±1.32	3.0S	138.8E	0	4.0b,3.2s		¶97xii0672
NEIC	XII	04 19 10 15.7	3.11S	138.52E	62	4.3b		
EIDC	Error ellipse is semi−major=40.0km semi−minor=22.1km azimuth=92							
NEIC	Less reliable solution.							
ISC	**XII**	**12 15 17 42**±6.9	**2.2S**±.64	**138.9E**±.18	**33**	**3.7b**	**7**	**4-30**
EIDC	XII	12 15 17 31.6	1.4S	138.4E	0	3.7b,4.1L		¶97xii2770
NEIC	XII	12 15 17 38.9	1.91S	138.89E	33	3.6b		
EIDC	Origin time error = 15.53Error ellipse is semi−major=274.3km semi−minor=118.1km azimuth=146							
NEIC	Poor solution.							
ISC	**XII**	**12 22 45 07.9**±.31	**4.41S**±.041	**137.37E**±.056	**43**±2.1*	**4.6b,4.1s**	**62**	**4-147**
DJA	XII	12 22 45 02.2±1.03	3.4S	138.3E	33	5.7D,5.2L		¶97xii2836
BJI	XII	12 22 45 06.8	4.21S	137.64E	37	4.9b,4.9s		
NEIC	XII	12 22 45 08.4	4.46S	137.37E	46	4.7b		
EIDC	XII	12 22 45 10.6±.62	4.4S	137.3E	40±5.7	4.2b,4.7L		
DJA	Error ellipse is semi−major=61.4km semi−minor=5.7km azimuth=179							
EIDC	Error ellipse is semi−major=26.8km semi−minor=11.2km azimuth=80							
ISC	**XII**	**14 08 48 35**±1.6	**3.05S**±.031	**136.12E**±.034	**22**±12	**5.2b,5.1s**	**171**	**4-161**
BJI	XII	14 08 48 35.2	2.86S	136.22E	24	5.2b,5.1s		¶97xii3119
MOS	XII	14 08 48 35.5	3.0S	136.1E	28	5.7b,5.0s		
NEIC	XII	14 08 48 36.0	3.08S	136.11E	33	5.2b,5.2s		
EIDC	XII	14 08 48 38.0±.38	3.0S	136.2E	31±2.5	4.7b,5.1s		
HRVD	XII	14 08 48 42.4±.3	2.85S±.03	136.06E±.04	31±2.0			
NEIC	Mw5.6(HRV).							
EIDC	Error ellipse is semi−major=23.3km semi−minor=8.3km azimuth=86							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c71; Half duration: 1ŝ7. Moment tensor: Scale 10^{17}Nm; M_{rr}1.36±.06; $M_{\theta\theta}$−1.72±.06; $M_{\phi\phi}$0.36±.09; $M_{r\theta}$−2.04±.17; $M_{r\phi}$0.21±.12; $M_{\theta\phi}$−0.61±.06. Principal Axes: T 2.48,Plg60°,Azm205°; N 0.32, Plg15°,Azm88°; P −2.80,Plg25°,Azm351°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S51°, δ24°,λ50°. NP2:ϕ_S273°,δ72°,λ106°.							
NEIC	**XII**	**16 14 33 35.3**	**5.05S**	**140.70E**	**33**	3.7b		**1-146**
EIDC	XII	16 14 33 36.5±3.41	4.6S	138.3E	0	3.7L,4.0b		¶97xii3465
NEIC	Poor solution.							
EIDC	Error ellipse is semi−major=127.8km semi−minor=51.2km azimuth=91							
DJA	**XII**	**17 12 35 24.6**±.99	**3.4S**	**139.3E**	**33**	4.9L		**1-2**
								¶97xii3603
DJA	Error ellipse is semi−major=88.2km semi−minor=20.8km azimuth=144							
ISC	**XII**	**18 22 54 27**±2.3	**3.5S**±.18	**140.2E**±.42	**15**±20	4.0b	**11**	**1-145**
NEIC	XII	18 22 54 29.4	3.80S	140.80E	33	4.0b		¶97xii3849
EIDC	XII	18 22 54 32.4±1.52	3.9S	141.0E	35±10.6	4.0b,4.0L		
NEIC	Poor solution.							
EIDC	Error ellipse is semi−major=54.9km semi−minor=19.1km azimuth=109							
ISC	**XII**	**18 23 01 34**±4.7	**3.3S**±.11	**139.8E**±.23	**26**±37	**4.1b**	**11**	**1-145**
NEIC	XII	18 23 01 36.7	3.60S	140.31E	33	3.8b		¶97xii3850
EIDC	XII	18 23 01 39.0±1.44	3.6S	140.8E	34±10.4	4.0b,4.4L		
NEIC	Poor solution.							
EIDC	Error ellipse is semi−major=71.5km semi−minor=23.4km azimuth=100							
ISC	**XII**	**18 23 13 00**±1.0	**3.4S**±.10	**139.9E**±.19	**33**	3.9b	**9**	**1-145**
NEIC	XII	18 23 13 00.6	4.37S	142.20E	33	3.6b		¶97xii3851
EIDC	XII	18 23 13 01.0±1.10	4.2S	142.1E	27±7.4	4.0b,3.7L		
NEIC	Poor solution.							
EIDC	Error ellipse is semi−major=71.6km semi−minor=22.5km azimuth=108							
ISC	**XII**	**19 08 45 02**±1.1	**4.5S**±.11	**139.8E**±.13	**33**	3.4b	**8**	**2-27**
NEIC	XII	19 08 45 01.5	4.51S	139.83E	33	3.6b		¶97xii3918
EIDC	XII	19 08 45 08.2±3.73	4.8S	138.2E	0	3.9L,3.8b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=94.0km semi−minor=31.0km azimuth=110							
ISC	**XII**	**19 18 09 22**±1.3	**4.0S**±.11	**136.6E**±.23	**33**	3.4b	**8**	**14-88**
EIDC	XII	19 18 09 18.3±1.67	3.9S	136.8E	0	3.5b,3.7L		¶97xii4012
NEIC	XII	19 18 09 21.6	4.00S	136.67E	33	4.1b		
EIDC	Error ellipse is semi−major=50.2km semi−minor=24.6km azimuth=92							
NEIC	Less reliable solution.							
ISC	**XII**	**22 03 15 42**±1.8	**3.1S**±.44	**140.2E**±.88	**33**	3.9b	**8**	**1-86**
EIDC	XII	22 03 15 37.0±1.81	2.5S	138.6E	0	3.7b,4.2L		¶97xii4344
EIDC	Error ellipse is semi−major=86.4km semi−minor=27.1km azimuth=112							
ISC	**XII**	**25 00 55 13**±1.7	**4.1S**±.12	**138.2E**±.35	**33**	4.7b	**7**	**10-48**
EIDC	XII	25 00 55 09.6±2.79	4.0S	138.7E	0	4.1b,4.0L		¶97xii4848
EIDC	Error ellipse is semi−major=111.6km semi−minor=16.6km azimuth=93							
DJA	**XII**	**25 04 27 44.2**±1.20	**3.2S**	**140.0E**	**60**±36.5	5.4D		**1-1**
								¶97xii4866
DJA	Error ellipse is semi−major=97.3km semi−minor=47.7km azimuth=168							
ISC	**XII**	**25 20 10 56**±1.5	**3.8S**±.21	**139.2E**±.30	**33**		**7**	**2-20**
NEIC	XII	25 20 10 56.0	3.82S	139.23E	33	3.4b		¶97xii4987
NEIC	Less reliable solution.							
DJA	**XII**	**26 05 20 46.0**±1.13	**3.0S**	**140.0E**	**33**	5.5D,4.2L		**1-1**
								¶97xii5056
DJA	Error ellipse is semi−major=336.9km semi−minor=26.5km azimuth=144							
ISC	**XII**	**27 00 39 30**±2.4	**3.1S**±.14	**139.6E**±.16	**103**±23	**4.1b**	**14**	**3-86**
EIDC	XII	27 00 39 19.5±1.16	2.9S	140.0E	0	4.0b,4.3L		¶97xii5216
NEIC	XII	27 00 39 31.0	3.10S	139.61E	110	4.0b		
EIDC	Error ellipse is semi−major=56.1km semi−minor=18.5km azimuth=103							
NEIC	Less reliable solution.							
ISC	**XII**	**28 06 24 39**±4.7	**2.1S**±.46	**138.4E**±.21	**33**	**4.2b**	**9**	**12-33**
EIDC	XII	28 06 24 39.8±3.38	2.5S	138.5E	0	4.0b,4.4L		¶97xii5410
EIDC	Error ellipse is semi−major=49.0km semi−minor=35.7km azimuth=125							
ISC	**XII**	**29 02 06 06**±1.4	**3.2S**±.14	**139.7E**±.17	**33**		**7**	**1-21**
NEIC	XII	29 02 06 06.2	3.22S	139.69E	33	3.4b		¶97xii5532
DJA	XII	29 02 06 06.7±1.13	2.3S	139.5E	33	5.5D,4.8L		
NEIC	Less reliable solution.							
DJA	Error ellipse is semi−major=82.6km semi−minor=26.0km azimuth=10							
ISC	**XII**	**29 17 39 36.6**±.43	**3.05S**±.050	**136.14E**±.091	**33**	**4.1b,4.3s**	**35**	**5-148**
BJI	XII	29 17 39 33.0	3.10S	136.95E	33	4.6b		¶97xii5616
EIDC	XII	29 17 39 33.7±.68	2.9S	136.3E	0	4.1b,4.2s		
NEIC	XII	29 17 39 36.2	3.02S	136.11E	33	4.2b		
EIDC	Error ellipse is semi−major=30.8km semi−minor=11.5km azimuth=84							
ISC	**XII**	**31 23 09 00**±1.7	**4.1S**±.15	**140.5E**±.58	**33**	4.0b	**8**	**17-145**
EIDC	XII	31 23 08 57.4±1.15	4.0S	140.4E	0	4.0b,4.2L		¶97xii5997
NEIC	XII	31 23 09 00.0	4.08S	140.44E	33			
EIDC	Error ellipse is semi−major=64.8km semi−minor=22.2km azimuth=93							
NEIC	Poor solution.							

(202) New Guinea.

EIDC	**VII**	**02 06 37 34.4**	**6.0S**	**141.5E**	**0**	3.9L,3.8b		**15-26**
								¶97vii0192
ISC	**VII**	**05 05 49 12.0**±.98	**3.5S**±.13	**141.8E**±.13	**33**	**4.1b**	**11**	**2-99**
EIDC	VII	05 05 49 07.9	3.5S	141.3E	0	4.3b,3.9L		¶97vii0686
NEIC	VII	05 05 49 10.9	3.58S	141.39E	33	3.8b		
NEIC	Less reliable solution.							
DJA	**VII**	**10 21 39 39.6**	**4.3S**	**141.0E**	**33**	5.5D,4.5L		**2-2**
ISC	DJA magnitude values may be overestimated							¶97vii1570
ISC	**VII**	**15 01 45 50**±1.4	**4.6S**±.28	**143.6E**±.32	**81**±45	3.6b	**6**	**1-27**
EIDC	VII	15 01 45 38.3	4.0S	143.7E	0	3.8b,3.8L		¶97vii2232
ISC	**VII**	**17 18 55 22.9**±.75	**4.24S**±.064	**142.18E**±.099	**120**±8.5	**3.8b**	**19**	**1-147**
EIDC	VII	17 18 55 09.5	4.1S	142.7E	0	3.8b,5.0L		¶97vii2629
DJA	VII	17 18 55 18.2	5.2S	139.4E	33	4.9L		
NEIC	VII	17 18 55 22.7	4.27S	142.17E	118	4.1b		
NEIC	Less reliable solution.							
ISC	**VII**	**20 10 49 44.6**±.44	**6.13S**±.033	**145.39E**±.041	**130**±4.7	**5.1b**	**148**	**1-155**
NEIC	VII	20 10 49 43.8	6.11S	145.37E	122	5.0b		¶97vii3073
BJI	VII	20 10 49 44.0	6.04S	145.41E	123	5.5b		
EIDC	VII	20 10 49 46.0	6.1S	145.5E	129	4.7b		
DJA	**VII**	**31 22 56 38.2**	**6.2S**	**142.7E**	**100**	5.7D,4.7L		**4-4**
ISC	DJA magnitude values may be overestimated							¶97vii4796
ISC	**VIII**	**01 02 23 41.5**±.96	**3.85S**±.086	**141.7E**±.11	**33**		**6**	**2-18**
								¶97viii0012
ISC	**VIII**	**09 22 49 31**±1.1	**4.0S**±.15	**143.1E**±.18	**76**±12	**3.3b**	**7**	**1-85**
EIDC	VIII	09 22 49 22.7	3.9S	143.2E	0	3.4b,3.8L		¶97viii1315
ISC	**VIII**	**18 21 54 11.6**±.87	**4.58S**±.081	**143.5E**±.13	**100**	**3.6b**	**10**	**1-86**
EIDC	VIII	18 21 53 59.6	4.4S	143.9E	0	3.7b,3.9L		¶97viii2717
NEIC	VIII	18 21 54 01.3	4.69S	144.51E	33	3.5b		
NEIC	Poor solution.							
EIDC	**VIII**	**18 22 49 05.5**	**5.0S**	**144.4E**	**0**	3.9b,3.7L		**3-69**
								¶97viii2724
EIDC	**VIII**	**25 04 06 21.1**	**6.6S**	**143.3E**	**0**	3.5L,3.4b		**1-89**
								¶97viii3642
ISC	**IX**	**04 19 18 58.5**±.88	**4.15S**±.067	**142.17E**±.091	**125**±9.4	**4.0b**	**28**	**1-147**
NEIC	IX	04 19 18 48.3	3.90S	142.33E	33	4.3b		¶97ix0625
EIDC	IX	04 19 18 59.5	4.2S	142.3E	120	3.8b		
NEIC	Less reliable solution.							
ISC	**IX**	**13 00 01 59**±2.1	**6.5S**±.25	**146.0E**±.16	**135**	3.6b	**9**	**1-26**
EIDC	IX	13 00 01 44.6	5.3S	146.8E	135	3.3b		¶97ix1887
ISC	**IX**	**14 21 36 40.6**±.92	**4.02S**±.093	**141.8E**±.11	**100**	3.7b	**8**	**1-21**
								¶97ix2167
EIDC	**IX**	**16 03 53 08.3**	**5.1S**	**141.2E**	**0**	3.8L,3.9b		¶97ix2326
ISC	**X**	**04 17 49 28**±1.4	**4.87S**±.070	**143.5E**±.17	**33**	3.7b	**14**	**1-148**
DJA	X	04 17 49 14.3	6.0S	143.2E	300	5.9D,4.7L		¶97x0696
EIDC	X	04 17 49 17.9	4.3S	144.0E	0	3.4b,3.9L		
NEIC	X	04 17 49 21.6	4.38S	143.79E	33	3.4b		
NEIC	Poor solution.							
ISC	**X**	**09 08 30 56**±1.4	**4.3S**±.11	**143.3E**±.13	**33**	3.9b	**8**	**1-21**
NEIC	X	09 08 30 55.5	4.32S	143.28E	33	4.0b		¶97x1557
NEIC	Less reliable solution.							
ISC	**X**	**12 14 55 14**±1.2	**5.4S**±.12	**144.9E**±.12	**33**	3.6b	**7**	**1-27**
EIDC	X	12 14 55 24.1	5.9S	145.8E	173	3.4b		¶97x2060
ISC	**XI**	**03 10 40 52**±1.2	**3.53S**±.098	**141.5E**±.19	**33**	**3.8b**	**10**	**1-85**
NEIC	XI	03 10 40 51.7	3.53S	141.46E	33	3.6b		¶97xi0453
EIDC	XI	03 10 41 05.7	3.9S	141.7E	150	3.4b		
NEIC	Less reliable solution.							
EIDC	**XI**	**08 18 37 27.8**	**4.7S**	**141.9E**	**0**	3.5b,3.2L		¶97xi1333
EIDC	LO CONF Location							
ISC	**XI**	**21 13 31 42.3**±.75	**6.99S**±.076	**145.33E**±.078	**55**±14	3.6b	**13**	**1-87**
EIDC	XI	21 13 31 36.3	6.7S	145.4E	0	3.9L,3.6b		¶97xi3662
NEIC	XI	21 13 31 41.5	7.03S	145.30E	33	3.7b		
ISC	**XI**	**21 18 18 37.6**±.98	**5.32S**±.091	**144.76E**±.095	**33**	**3.8b**	**16**	**1-51**
EIDC	XI	21 18 18 34.4	5.3S	144.8E	0	3.6b,4.1L		¶97xi3707
NEIC	XI	21 18 18 38.1	5.30S	144.72E	33	4.1b		
NEIC	Less reliable solution.							
ISC	**XI**	**23 22 23 30**±1.9	**6.7S**±.18	**145.7E**±.29	**113**±25	3.7b	**6**	**1-87**
NEIC	XI	23 22 23 29.8	6.71S	145.69E	112			¶97xi4213
EIDC	XI	23 22 23 33.1	6.9S	146.1E	137	3.5b		
NEIC	Less reliable solution.							
ISC	**XI**	**24 15 04 01.6**±.75	**6.21S**±.075	**142.31E**±.077	**33**	3.3b	**11**	**1-26**
NEIC	XI	24 15 04 01.2	6.23S	142.32E	33	3.5b		¶97xi4334
EIDC	XI	24 15 04 02.3	6.9S	143.2E	0	3.4b,3.5L		
ISC	**XI**	**28 13 07 18**±1.4	**4.07S**±.092	**141.8E**±.23	**139**±12	**3.8b**	**12**	**1-147**
EIDC	XI	28 13 07 03.5	3.8S	142.2E	0	4.1b		¶97xi5088
NEIC	XI	28 13 07 16.9	4.06S	142.12E	123	4.2b		
NEIC	Poor solution.							
ISC	**XII**	**17 12 20 39.5**±.61	**4.23S**±.067	**143.45E**±.075	**84**±8.9	**4.0b**	**21**	**1-68**
NEIC	XII	17 12 20 39.6	4.22S	143.47E	87	4.3b		¶97xii3602
EIDC	XII	17 12 20 53.5±7.02	4.9S	144.6E	253±105.9	3.4b		
EIDC	Error ellipse is semi−major=120.8km semi−minor=25.4km azimuth=117							
DJA	**XII**	**20 02 32 17.2**±1.13	**3.6S**	**141.9E**	**100**	5.7D,4.6L		**2-2**
								¶97xii4073
DJA	Error ellipse is semi−major=101.4km semi−minor=28.6km azimuth=37							
ISC	**XII**	**22 18 15 53**±1.5	**4.3S**±.15	**142.8E**±.14	**109**±17	**3.5b**	**8**	**2-86**
EIDC	XII	22 18 15 42.1±1.70	4.0S	143.0E	0	3.6b,4.4L		¶97xii4463
NEIC	XII	22 18 15 53.0	4.36S	142.86E	113	3.6b		
EIDC	Error ellipse is semi−major=108.1km semi−minor=22.8km azimuth=107							
NEIC	Less reliable solution.							

(203) Bismarck Sea.

EIDC	**VII**	**13 23 48 30.0**	**4.9S**	**149.4E**	**0**	**3.6b**		**3-28**
								¶97vii2041
ISC	**VII**	**22 20 44 04**±1.5	**3.4S**±.19	**148.9E**±.28	**33**	**3.7b**	**8**	**4-82**
EIDC	VII	22 20 44 00.7	3.4S	149.0E	0	3.7b		¶97vii3430
NEIC	VII	22 20 44 04.3	3.38S	148.88E	33	3.8b		
NEIC	Poor solution.							
ISC	**VII**	**24 16 26 31**±2.9	**3.3S**±.31	**148.0E**±.16	**100**	3.0b	**6**	**3-21**
								¶97vii3698
EIDC	**VII**	**26 20 37 50.1**	**4.4S**	**149.8E**	**0**	**3.3b**		**22-83**
								¶97vii4008
ISC	**VII**	**27 14 04 07**±1.6	**4.0S**±.18	**146.4E**±.35	**33**	**4.1b**	**7**	**20-84**
EIDC	VII	27 14 04 03.0	3.9S	146.5E	0	4.0b,4.1L		¶97vii4119
ISC	**VII**	**29 10 15 04**±1.1	**3.5S**±.36	**149.9E**±.45	**33**	**3.3b**	**5**	**1-82**
EIDC	VII	29 10 15 01.0	3.4S	149.6E	0	3.5b		¶97vii4420
ISC	**VII**	**31 14 16 53**±3.6	**3.8S**±.14	**146.3E**±.18	**36**±35	**3.6b**	**10**	**6-84**
NEIC	VII	31 14 16 52.3	3.74S	146.34E	33	4.0b		¶97vii4743
EIDC	VII	31 14 16 56.1	3.8S	146.5E	56	3.4b,4.0L		

NEIC Less reliable solution.
ISC VIII 09 13 41 27±6.1 **3.3S**±.12 **148.9E**±.12 **10**±39 **4.3b** **19 2-133**
EIDC VIII 09 13 41 26.5 3.4S 148.9E 0 4.0b **¶97viii1257**
NEIC VIII 09 13 41 30.0 3.38S 148.85E 33 4.4b
NEIC Less reliable solution.
EIDC VIII 19 03 37 59.3 3.3S 148.9E 0 3.7b 4-41
¶97viii2758
ISC IX 25 16 30 15±2.7 **4.8S**±.19 **149.3E**±.65 **33** **4.0b** **6 5-84**
EIDC IX 25 16 30 10.3 4.9S 149.8E 0 4.0b **¶97ix3760**
ISC IX 28 01 04 41±4.8 **4.7S**±.42 **147.9E**±.32 **33** **3.7b** **8 2-28**
EIDC IX 28 01 04 29.9 3.8S 148.2E 0 3.8b **¶97ix4502**
ISC IX 29 18 16 30±4.6 **3.8S**±.45 **148.0E**±.31 **0** **4.0b** **11 3-30**
EIDC IX 29 18 16 31.7 3.6S 148.0E 0 3.8b **¶97ix5002**
ISC X 08 13 41 19±2.7 **4.1S**±.16 **147.8E**±.53 **33** **4.0b** **7 5-53**
EIDC X 08 13 41 20.7 4.2S 148.1E 45 3.6b **¶97x1426**
ISC X 26 16 39 30±1.7 **3.9S**±.22 **146.1E**±.38 **33** **3.6b** **5 20-84**
EIDC X 26 16 39 27.5 3.9S 146.2E 0 3.7b,3.9L **¶97x4498**
NEIC X 26 16 39 30.3 3.97S 146.06E 33
NEIC Poor solution.
ISC XI 05 18 34 06±3.6 **3.2S**±.17 **147.1E**±.19 **88**±32 **3.8b** **13 6-83**
NEIC XI 05 18 33 59.1 3.00S 147.31E 33 4.1b **¶97xi0843**
EIDC XI 05 18 34 12.6 3.7S 148.2E 165 3.4b
NEIC Poor solution.
ISC XI 19 02 10 12±1.4 **3.5S**±.17 **149.7E**±.25 **33** **3.9b**,3.6s **10 17-82**
EIDC XI 19 02 10 08.8 3.5S 149.8E 0 3.9b,3.6s **¶97xi3110**
NEIC XI 19 02 10 12.3 3.43S 149.58E 33 4.1b
NEIC Poor solution.
ISC XI 19 20 00 16±3.0 **3.7S**±.12 **149.5E**±.13 **131**±27 **4.1b** **19 6-82**
NEIC XI 19 20 00 05.0 3.58S 149.52E 33 4.5b **¶97xi3302**
BJI XI 19 20 00 07.9 3.33S 149.40E 38 4.6b
EIDC XI 19 20 00 18.1 3.7S 149.6E 144 3.8b
NEIC Less reliable solution.
ISC XI 19 20 02 11±1.8 **3.59S**±.043 **149.55E**±.072 **43**±16 **4.9b,5.1s** **84 4-138**
NEIC XI 19 20 02 09.7 3.57S 149.57E 33 5.0b,5.1s **¶97xi3303**
BJI XI 19 20 02 10.5 3.45S 149.62E 36 5.2b,5.2s
HRVD XI 19 20 02 11.3±.4 3.60S±.04 149.71E±.04 15
EIDC XI 19 20 02 15.4 3.7S 149.7E 72 4.2b,5.0s
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c49; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.04±.06; $M_{\theta\theta}$1.27±.06; $M_{\phi\phi}$−1.22±.08; $M_{r\theta}$0.27±.21; $M_{r\phi}$0.56±.18; $M_{\theta\phi}$1.35±.06. Principal Axes: T 1.97,Plg13°,Azm335°; N −0.06, Plg71°,Azm200°; P −1.90,Plg13°,Azm68°. Best double couple: $M_0$1.9×10^{17}Nm, NP1: ϕ_S112°,δ71°,λ1°. NP2:ϕ_S21°,δ89°,λ161°.
EIDC XI 23 20 22 01.8 3.3S 147.5E 0 3.5b,3.7s **¶97xi4187**
EIDC XII 11 23 12 06.2 4.1S 149.7E 0 3.5b 22-29
¶97xii2655
EIDC Origin time error = 23.27Error ellipse is semi−major=383.4km semi−minor=94.1km azimuth=11LO CONF Location
EIDC XII 17 04 52 52.8±2.10 **3.7S 148.9E 0 3.8b 21-96**
¶97xii3553
EIDC Error ellipse is semi−major=299.4km semi−minor=30.8km azimuth=125LO CONF Location
ISC XII 18 06 40 04.6±.38 **3.00S**±.052 **147.45E**±.089 **33** **4.6b,4.9s** **60 17-156**
EIDC XII 18 06 40 01.1±.64 3.0S 147.7E 0 4.5b,4.8s **¶97xii3730**
BJI XII 18 06 40 04.0 3.15S 147.86E 50 4.8b,5.1s
NEIC XII 18 06 40 04.5 3.02S 147.48E 33 4.8b
EIDC Error ellipse is semi−major=25.7km semi−minor=13.8km azimuth=103
NEIC Less reliable solution.
ISC XII 18 13 25 19±3.2 **3.3S**±.22 **147.4E**±.27 **99**±32 **3.6b** **9 3-97**
EIDC XII 18 13 25 08.4±1.37 3.2S 147.6E 0 3.8b **¶97xii3769**
NEIC XII 18 13 25 11.9 3.19S 147.47E 33 3.8b
EIDC Error ellipse is semi−major=53.3km semi−minor=21.7km azimuth=120
NEIC Poor solution.
ISC XII 18 13 26 01±1.3 **3.7S**±.25 **148.0E**±.46 **33** **4.0b** **6 21-97**
EIDC XII 18 13 25 57.0±1.48 3.8S 148.4E 0 4.0b,3.6s **¶97xii3771**
NEIC XII 18 13 26 00.8 3.67S 147.97E 33 3.7b
EIDC Error ellipse is semi−major=72.6km semi−minor=21.8km azimuth=115
NEIC Poor solution.
EIDC XII 18 20 30 35.5±1.86 **3.4S 148.2E 0 3.8b 21-96**
¶97xii3820
EIDC Error ellipse is semi−major=301.2km semi−minor=24.7km azimuth=122
ISC XII 18 20 45 39±1.5 **3.7S**±.33 **148.5E**±.53 **33** **3.4b** **6 21-83**
EIDC XII 18 20 45 35.5±1.63 3.7S 148.6E 0 3.6b **¶97xii3823**
EIDC Error ellipse is semi−major=101.5km semi−minor=27.3km azimuth=119
EIDC XII 19 17 51 49.9 4.3S 149.5E 0 3.2b 21-55
¶97xii4008
EIDC Origin time error = 10.46Error ellipse is semi−major=232.9km semi−minor=37.1km azimuth=89
ISC XII 21 04 40 04.8±.43 **3.08S**±.047 **147.20E**±.092 **60** **4.7b,4.9s** **41 4-97**
EIDC XII 21 04 39 57.9±.78 3.1S 147.5E 0 4.5b,4.9s **¶97xii4210**
BJI XII 21 04 40 04.1 3.10S 147.76E 82 4.9b,5.2s
NEIC XII 21 04 40 04.4 3.01S 147.16E 60 4.5b
EIDC Error ellipse is semi−major=36.8km semi−minor=14.4km azimuth=105
NEIC Less reliable solution.
ISC XII 21 04 49 33±3.4 **3.0S**±.19 **147.0E**±.21 **79**±29 **4.0b** **12 4-97**
EIDC XII 21 04 49 25.4±1.16 2.5S 146.5E 0 4.3b,4.0s **¶97xii4213**
NEIC XII 21 04 49 28.3 2.74S 146.79E 33 4.3b
EIDC Error ellipse is semi−major=65.9km semi−minor=20.1km azimuth=118
NEIC Poor solution.
ISC XII 23 18 40 11.1±.59 **4.73S**±.046 **149.70E**±.071 **596**±8.1 **4.4b** **91 3-155**
BJI XII 23 18 40 10.7 4.30S 149.79E 572 4.5b **¶97xii4640**
NEIC XII 23 18 40 10.8 4.71S 149.66E 593 4.7b
EIDC XII 23 18 40 12.6±.84 4.8S 149.7E 594±7.5 3.9b
EIDC Error ellipse is semi−major=22.6km semi−minor=9.8km azimuth=106
ISC XII 23 23 33 18±1.2 **4.75S**±.072 **149.6E**±.15 **608**±16 **4.1b** **41 5-153**
BJI XII 23 23 33 16.9 4.40S 149.50E 574 4.0b **¶97xii4670**
NEIC XII 23 23 33 17.8 4.72S 149.59E 600 4.4b
EIDC XII 23 23 33 18.9±2.11 4.8S 149.7E 598±24.3 3.4b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=25.5km semi−minor=10.9km azimuth=109
ISC XII 31 18 24 46.6±.74 **3.51S**±.072 **149.0E**±.15 **33** **4.1b,**4.6s **24 19-96**
EIDC XII 31 18 24 42.8±1.14 3.5S 149.2E 0 4.1b **¶97xii5942**
BJI XII 31 18 24 44.4 3.29S 149.39E 27 4.5b
NEIC XII 31 18 24 45.8 3.58S 149.21E 33 4.2b
EIDC Error ellipse is semi−major=41.0km semi−minor=16.4km azimuth=108
NEIC Less reliable solution.
ISC XII 31 18 31 55.7±.78 **3.72S**±.091 **149.0E**±.19 **33** **3.9b,4.2s** **17 19-96**
EIDC XII 31 18 31 52.4±.90 3.7S 149.1E 0 3.9b,4.2s **¶97xii5944**
BJI XII 31 18 31 54.7 4.09S 149.15E 52 4.4b
NEIC XII 31 18 31 55.6 3.70S 148.97E 33 4.1b
EIDC Error ellipse is semi−major=34.1km semi−minor=16.1km azimuth=102
NEIC Less reliable solution.
ISC XII 31 18 33 25.3±.84 **3.39S**±.074 **148.7E**±.16 **33** **4.1b,4.6s** **22 19-96**
EIDC XII 31 18 33 21.8±1.36 3.5S 149.0E 0 4.1b,4.5s **¶97xii5945**
BJI XII 31 18 33 24.1 3.50S 148.70E 33 4.6b
NEIC XII 31 18 33 26.1 3.46S 148.71E 33 4.2b
EIDC Error ellipse is semi−major=45.7km semi−minor=17.2km azimuth=104
NEIC Less reliable solution.
ISC XII 31 18 50 35±1.1 **3.2S**±.14 **148.6E**±.23 **33** **3.7b** **11 19-96**
EIDC XII 31 18 50 31.2±1.42 3.3S 148.7E 0 3.8b **¶97xii5950**
NEIC XII 31 18 50 34.9 3.24S 148.62E 33 4.2b
EIDC Error ellipse is semi−major=50.9km semi−minor=20.0km azimuth=111
NEIC Less reliable solution.
ISC XII 31 19 02 36±1.4 **3.5S**±.16 **147.3E**±.26 **33** **4.0b,**3.4s **10 17-97**
EIDC XII 31 19 02 31.5±4.09 3.5S 147.7E 0 4.3s,3.9b **¶97xii5952**
NEIC XII 31 19 02 37.3 3.28S 147.19E 33 4.1b
EIDC Error ellipse is semi−major=111.0km semi−minor=25.5km azimuth=97Multiple, mixed az
NEIC Poor solution.
ISC XII 31 19 31 25±1.1 **3.5S**±.14 **149.1E**±.24 **33** **3.7b** **10 19-96**
EIDC XII 31 19 31 21.0±1.48 3.6S 149.4E 0 3.8b,3.5s **¶97xii5957**
NEIC XII 31 19 31 24.9 3.52S 149.14E 33 4.1b
EIDC Error ellipse is semi−major=50.0km semi−minor=20.6km azimuth=113
NEIC Less reliable solution.

(204) Aroe Islands region.

EIDC VII 09 01 56 35.8 5.3S 132.8E 0 3.4L,4.2b **15-28**
¶97vii1272
ISC VII 23 20 18 11±2.5 **5.9S**±.23 **132.9E**±.52 **33** 3.5b **8 7-41**
EIDC VII 23 20 18 11.2 6.3S 132.2E 0 3.8b,3.8L **¶97vii3573**
ISC VIII 05 07 22 22±1.2 **5.1S**±.10 **133.2E**±.19 **33** 4.2b,3.7s **7 5-28**
NEIC VIII 05 07 22 21.4 5.07S 133.30E 33 4.4b **¶97viii0627**
EIDC VIII 05 07 22 28.7 5.9S 133.4E 0 4.0L,4.4b
NEIC Less reliable solution.
EIDC VIII 07 11 58 10.0 5.1S 134.9E 0 3.8L,4.0b **15-27**
¶97viii0938
ISC IX 03 16 14 48±1.3 **5.8S**±.10 **133.7E**±.16 **33** **3.8b** **10 1-27**
NEIC IX 03 16 14 47.5 5.74S 133.82E 33 3.9b **¶97ix0448**
NEIC Less reliable solution.
ISC IX 17 05 59 31.5±.59 **5.45S**±.062 **134.19E**±.093 **33** **4.0b,**3.5s **25 7-149**
DJA IX 17 05 59 15.3 5.0S 136.4E 2 5.0L,5.0D **¶97ix2472**
BJI IX 17 05 59 30.0 5.50S 134.20E 33 4.4b
NEIC IX 17 05 59 32.0 5.51S 134.20E 33 4.0b
EIDC IX 17 05 59 35.7 5.7S 132.6E 43 3.8b,4.2L
NEIC Less reliable solution.
ISC IX 28 16 44 21±5.9 **6.7S**±.51 **133.6E**±.26 **33** 3.5b **8 6-26**
EIDC IX 28 16 44 10.8 6.1S 133.0E 0 3.7L,3.9b **¶97ix4705**
EIDC X 03 17 45 08.6 8.0S 133.0E 0 3.8L,3.9b **¶97x0500**
ISC XI 25 22 37 51±1.1 **5.01S**±.099 **133.9E**±.13 **33** **3.9b** **11 7-90**
NEIC XI 25 22 37 50.8 5.00S 133.91E 33 4.0b **¶97xi4591**
EIDC XI 25 22 37 52.9 5.4S 133.8E 0 4.1L,3.7b
NEIC Less reliable solution.

(206) Near south coast of New Guinea.

ISC X 05 18 33 29.1±.54 **7.35S**±.032 **145.97E**±.040 **65**±5.5 **4.9b** **92 1-153**
BJI X 05 18 33 29.2 7.40S 146.40E 86 5.3b,5.1s **¶97x0909**
NEIC X 05 18 33 29.4 7.37S 145.92E 71 5.1b
EIDC X 05 18 33 29.8 7.4S 146.0E 57 4.4b
ISC X 07 02 36 06.1±.73 **7.39S**±.046 **145.91E**±.067 **58**±8.8 **4.6b,**3.6s **34 1-153**
BJI X 07 02 36 04.5 7.40S 145.90E 33 4.8b **¶97x1160**
NEIC X 07 02 36 04.5 7.42S 145.90E 33 4.7b
EIDC X 07 02 36 06.7 7.4S 146.1E 50 4.2b,3.6s
DJA X 07 02 37 31.5 3.3S 141.4E 16 5.5D,4.6L
NEIC $M_{L4.6}$(PMG).
ISC XII 22 08 52 44±1.0 **7.1S**±.11 **145.4E**±.11 **33** 4.2b **8 1-87**
EIDC XII 22 08 52 40.9±1.28 7.0S 145.4E 0 3.4L,4.2b **¶97xii4389**
NEIC XII 22 08 52 43.9 7.07S 145.40E 33 3.2b
EIDC Error ellipse is semi−major=41.9km semi−minor=23.7km azimuth=104
NEIC Less reliable solution.

(207) Eastern New Guinea region.

ISC VII 01 01 15 15.3±.79 **5.57S**±.076 **145.31E**±.093 **79**±11 **3.8b** **15 1-150**
NEIC VII 01 01 15 14.3 5.54S 145.27E 70 3.9b **¶97vii0007**
EIDC VII 01 01 15 15.3 5.6S 145.4E 63 3.7b,4.2L
NEIC Poor solution.
ISC VII 02 18 11 26±1.7 **6.2S**±.13 **147.8E**±.14 **61**±9.7 **4.2b** **14 0-71**
NEIC VII 02 18 11 23.3 6.03S 147.71E 33 4.2b **¶97vii0278**
EIDC VII 02 18 11 26.9 6.1S 147.9E 62 3.9b,4.3L
NEIC Less reliable solution.
EIDC VII 03 08 52 35.4 8.4S 147.4E 0 3.3L,3.6b **17-24**
¶97vii0380
ISC VII 07 09 15 53.0±.51 **6.09S**±.030 **147.47E**±.037 **91**±4.9 **5.1b** **208 1-164**
BJI VII 07 09 15 45.0 6.50S 147.86E 64 5.2b,5.1s **¶97vii1020**
MOS VII 07 09 15 49.8 6.0S 147.4E 60 5.5b,5.0s
NEIC VII 07 09 15 50.2 6.06S 147.45E 64 5.2b,5.0s
EIDC VII 07 09 15 52.0 6.0S 147.4E 66 4.5b,4.8s
HRVD VII 07 09 15 57.5±.1 6.40S±.01 147.59E±.02 56
NEIC Mw5.8(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s67,c131; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}3.17±.06; $M_{\theta\theta}$−3.47±.08; $M_{\phi\phi}$0.29±.10; $M_{r\theta}$4.18±.09; $M_{r\phi}$−0.03±.07; $M_{\theta\phi}$−0.21±.07. Principal Axes: T 5.19,Plg64°,Azm3°; N 0.30, Plg2°,Azm269°; P −5.49,Plg26°,Azm178°. Best double couple: $M_0$5.3×10^{17}Nm, NP1: ϕ_S263°,δ19°,λ84°. NP2:ϕ_S90°,δ71°,λ92°.
EIDC VII 08 02 18 53.5 5.7S 146.4E 0 3.7L,3.3b **1-85**
¶97vii1124
ISC VII 10 12 07 57±1.1 **5.9S**±.11 **146.6E**±.14 **124**±8.5 **3.5b** **12 1-86**
NEIC VII 10 12 07 57.5 5.94S 146.62E 127 3.6b **¶97vii1507**
EIDC VII 10 12 08 04.0 6.6S 147.5E 192 3.2b
NEIC Less reliable solution.
ISC VII 10 19 10 44±1.0 **5.9S**±.11 **147.9E**±.17 **33** **3.9b** **12 1-85**
EIDC VII 10 19 10 40.4 6.0S 147.6E 0 3.9b,4.2L **¶97vii1551**
NEIC VII 10 19 10 44.2 5.95S 147.49E 33 3.7b
NEIC Poor solution.
ISC VII 12 12 54 12±1.9 **6.4S**±.16 **146.6E**±.47 **250** **3.7b** **8 16-43**
EIDC VII 12 12 53 46.7 6.4S 147.5E 0 3.7b,4.4L **¶97vii1818**
NEIC VII 12 12 53 49.8 6.36S 147.37E 33 3.6b
NEIC Poor solution.
ISC VII 13 05 33 28±1.2 **7.62S**±.072 **146.9E**±.18 **35**±12 **3.9b** **14 0-153**
EIDC VII 13 05 33 22.4 7.2S 146.8E 0 3.9b,3.7L **¶97vii1928**
NEIC VII 13 05 33 25.8 7.26S 146.73E 33 3.0b

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	Poor solution.						
ISC	**VII 15 17 06 02.3**±.90	**6.07S**±.060	**146.89E**±.085	**56**±9.5	**3.9b**,3.3s	**22**	**1-86**
NEIC	VII 15 17 06 06.7	6.18S	146.88E	100	3.9b		¶97vii2325
EIDC	VII 15 17 06 07.1	6.2S	147.0E	92	3.6b,3.7L		
NEIC	Less reliable solution.						
ISC	**VII 18 03 24 11**±8.4	**8.3S**±.65	**149.4E**±.49	**33**	3.3b	**6**	**12-25**
EIDC	VII 18 03 23 59.6	7.7S	149.9E	0	3.5b,4.0L		¶97vii2687
ISC	**VII 18 12 20 15.2**±.94	**6.9S**±.11	**147.43E**±.097	**33**	**3.6b**	**11**	**1-25**
EIDC	VII 18 12 20 09.2	6.8S	147.8E	0	3.7b,3.8L		¶97vii2735
ISC	**VII 29 03 39 22**±1.4	**6.7S**±.48	**147.8E**±.44	**33**	4.0b	**7**	**0-24**
EIDC	VII 29 03 38 53.3	5.7S	150.6E	0	3.5b		¶97vii4377
ISC	**VIII 01 21 49 41**±1.9	**7.1S**±.11	**148.0E**±.24	**33**	3.3b	**6**	**1-25**
EIDC	VIII 01 21 49 35.5	6.9S	148.2E	0	3.4b,3.5L		¶97viii0120
ISC	**VIII 01 23 21 36**±1.7	**5.6S**±.16	**147.8E**±.18	**170**±9.5	**4.5b**	**15**	**2-85**
NEIC	VIII 01 23 21 34.5	5.41S	147.71E	150	4.8b		¶97viii0132
EIDC	VIII 01 23 21 36.0	5.7S	148.1E	152	3.7b		
NEIC	Less reliable solution.						
ISC	**VIII 03 06 40 18.7**±.85	**5.65S**±.061	**146.7E**±.10	**123**±7.1	**4.4b**	**33**	**1-154**
EIDC	VIII 03 06 40 21.5	5.7S	146.6E	141	4.0b		¶97viii0323
NEIC	VIII 03 06 40 22.0	5.64S	146.51E	150	4.7b		
NEIC	Less reliable solution.						
ISC	**VIII 06 20 32 22.1**±.82	**6.27S**±.097	**147.1E**±.11	**122**±7.5	**3.9b**	**14**	**1-86**
EIDC	VIII 06 20 32 08.2	6.3S	147.8E	0	3.9b,3.7L		¶97viii0839
NEIC	VIII 06 20 32 11.4	6.33S	147.66E	33	4.5b		
NEIC	Poor solution.						
ISC	**VIII 11 20 29 22**±5.1	**6.1S**±.38	**147.4E**±.39	**150**	4.0b	**7**	**1-22**
							¶97viii1622
ISC	**VIII 12 13 46 33**±1.5	**6.1S**±.20	**148.0E**±.33	**33**	**3.6b**	**7**	**3-85**
EIDC	VIII 12 13 46 29.2	6.2S	148.3E	0	3.6b,3.9L		¶97viii1759
NEIC	VIII 12 13 46 32.9	6.00S	147.90E	33	3.6b		
NEIC	Poor solution.						
ISC	**VIII 14 05 16 39**±1.4	**8.4S**±.11	**149.1E**±.16	**33**	**3.8b**	**10**	**3-151**
EIDC	VIII 14 05 16 35.4	8.6S	149.4E	0	3.7b,4.2L		¶97viii2009
NEIC	VIII 14 05 16 39.0	8.42S	149.10E	33	3.9b		
NEIC	Less reliable solution.						
ISC	**VIII 16 10 50 47.2**±.67	**6.44S**±.049	**147.89E**±.073	**84**±6.1	**4.5b**	**46**	**0-153**
NEIC	VIII 16 10 50 46.4	6.41S	147.83E	75	4.7b		¶97viii2351
EIDC	VIII 16 10 50 47.8	6.5S	148.0E	73	4.1b,3.7s		
ISC	**VIII 21 13 48 40.6**±.91	**5.26S**±.052	**146.58E**±.067	**60**±8.0	**4.6b,3.4s**	**51**	**1-99**
EIDC	VIII 21 13 48 43.6	5.3S	146.6E	71	4.1b,4.7L		¶97viii3104
NEIC	VIII 21 13 48 45.1	5.34S	146.50E	100	4.8b		
BJI	VIII 21 13 48 47.1	5.30S	146.50E	100	4.7b		
ISC	**VIII 22 11 45 56.2**±.64	**5.63S**±.057	**145.70E**±.090	**119**±6.9	**4.2b**	**35**	**0-151**
EIDC	VIII 22 11 45 43.0	5.6S	146.1E	0	4.4b,4.5L		¶97viii3217
NEIC	VIII 22 11 45 47.1	5.49S	145.82E	33	4.3b		
ISC	**VIII 23 01 17 27**±1.1	**5.46S**±.089	**147.2E**±.13	**216**±7.6	**4.3b**	**20**	**1-85**
NEIC	VIII 23 01 17 25.6	5.41S	147.19E	200	4.6b		¶97viii3316
EIDC	VIII 23 01 17 28.3	5.5S	147.3E	213	3.8b		
NEIC	Less reliable solution.						
ISC	**VIII 24 18 36 03**±1.4	**7.5S**±.11	**147.9E**±.15	**33**	3.9b	**9**	**1-86**
NEIC	VIII 24 18 36 02.5	7.25S	147.67E	33	3.5b		¶97viii3575
EIDC	VIII 24 18 36 03.3	7.3S	147.9E	28	3.7b,3.9L		
NEIC	Poor solution.						
ISC	**VIII 25 01 03 39.1**±.98	**7.1S**±.10	**147.3E**±.13	**33**	3.8b	**8**	**1-25**
							¶97viii3613
ISC	**VIII 27 14 01 50.4**±.45	**5.48S**±.034	**147.07E**±.045	**195**±4.6	**4.5b**	**97**	**1-154**
BJI	VIII 27 14 01 49.5	5.45S	147.04E	189	4.7b		¶97viii3996
NEIC	VIII 27 14 01 49.8	5.46S	147.09E	189	5.1b		
EIDC	VIII 27 14 01 51.3	5.5S	147.1E	193	4.0b		
ISC	**VIII 31 01 44 48**±1.0	**5.1S**±.11	**145.14E**±.087	**33**	**3.7b**	**11**	**1-77**
NEIC	VIII 31 01 44 26.7	3.20S	145.66E	33	3.6b		¶97viii4569
EIDC	VIII 31 01 44 51.4	6.5S	146.3E	0	3.7b,3.8L		
NEIC	Poor solution.						
ISC	**VIII 31 10 05 34**±2.7	**6.1S**±.13	**146.94E**±.099	**11**±15	**3.9b**	**13**	**1-154**
EIDC	VIII 31 10 05 33.3	6.1S	147.1E	0	3.8b,4.1L		¶97viii4635
NEIC	VIII 31 10 05 36.8	6.20S	146.98E	33	3.7b		
NEIC	Less reliable solution.						
ISC	**VIII 31 12 05 56**±3.3	**6.7S**±.36	**146.6E**±.45	**97**±27	3.5b	**6**	**0-153**
NEIC	VIII 31 12 05 55.5	6.61S	146.68E	100			¶97viii4649
EIDC	VIII 31 12 05 55.8	6.6S	146.8E	88	3.5L,3.2b		
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**VIII 31 17 41 32**±3.9	**5.5S**±.20	**147.5E**±.51	**33**	**3.6b**	**6**	**4-53**
EIDC	VIII 31 17 41 27.8	5.8S	149.5E	104	3.2b		¶97viii4686
NEIC	VIII 31 17 41 31.6	5.46S	147.48E	33	3.7b		
NEIC	Poor solution.						
EIDC	**IX 01 04 01 06.9**	**5.7S**	**146.2E**	**0**	3.5b,3.8L		¶97ix0036
ISC	**IX 03 20 29 25**±1.4	**5.91S**±.083	**146.6E**±.12	**55**±12	**4.1b**	**23**	**1-122**
NEIC	IX 03 20 29 22.9	5.85S	146.65E	33	4.3b		¶97ix0482
EIDC	IX 03 20 29 27.8	6.0S	146.9E	68	3.8b,4.2L		
NEIC	Less reliable solution.						
ISC	**IX 05 17 55 41**±1.3	**9.2S**±.16	**150.2E**±.15	**33**	**3.7b**	**9**	**3-118**
EIDC	IX 05 17 55 37.1	9.1S	150.3E	0	3.8b,3.6L		¶97ix0779
EIDC	**IX 06 12 53 18.1**	**8.0S**	**150.5E**	**0**	3.3b,2.9L		¶97ix0913
ISC	**IX 07 20 53 50**±1.0	**5.40S**±.082	**146.9E**±.11	**232**±7.0	**4.2b**	**29**	**1-85**
NEIC	IX 07 20 53 46.4	5.31S	146.91E	200	4.5b		¶97ix1125
EIDC	IX 07 20 53 48.7	5.4S	147.0E	206	3.5b		
NEIC	Less reliable solution.						
ISC	**IX 08 18 33 45.4**±.60	**6.79S**±.040	**147.84E**±.058	**69**±5.9	**4.6b**	**66**	**0-154**
BJI	IX 08 18 33 41.5	6.57S	147.52E	21	4.7b		¶97ix1262
NEIC	IX 08 18 33 41.6	6.74S	147.91E	33	4.8b		
EIDC	IX 08 18 33 45.5	6.8S	147.9E	54	4.3b,3.8s		
ISC	**IX 09 05 44 58**±2.1	**9.4S**±.17	**150.4E**±.23	**33**	**3.7b**	**6**	**3-59**
EIDC	IX 09 05 44 54.6	9.4S	150.6E	0	3.8L,3.2b		¶97ix1331
NEIC	IX 09 05 44 58.3	9.42S	150.43E	33			
NEIC	Poor solution.						
EIDC	**IX 10 05 00 31.5**	**5.4S**	**146.9E**	**0**	**3.5b**,3.3L		¶97ix1475
ISC	**IX 10 05 52 04.1**±.81	**5.22S**±.086	**147.6E**±.10	**33**	**4.0b**,3.4s	**16**	**1-85**
EIDC	IX 10 05 52 00.7	5.3S	147.7E	0	4.0b,3.3s		¶97ix1479
NEIC	IX 10 05 52 04.0	5.27S	147.55E	33	4.0b		
NEIC	Less reliable solution.						
ISC	**IX 14 08 19 32**±1.1	**5.45S**±.098	**146.8E**±.15	**33**	**3.7b**	**8**	**1-85**
EIDC	IX 14 08 19 28.5	5.4S	146.8E	0	3.6b,3.6L		¶97ix2095
NEIC	IX 14 08 19 31.9	5.45S	146.60E	33			
NEIC	Single network solution.						
ISC	**IX 16 13 09 59.2**±.62	**6.70S**±.053	**146.92E**±.066	**81**±5.9	**4.6b**	**59**	**0-153**
BJI	IX 16 13 09 55.6	6.60S	146.90E	65	4.5b		¶97ix2387
EIDC	IX 16 13 09 57.0	6.6S	147.1E	45	4.3b,3.6s		
NEIC	IX 16 13 09 57.6	6.63S	146.87E	65	4.8b		
ISC	**IX 21 12 18 01.8**±.60	**5.29S**±.034	**145.57E**±.049	**103**±5.9	**4.8b**	**100**	**0-155**
EIDC	IX 21 12 17 50.8	5.3S	145.8E	0	4.7b,4.9L		¶97ix3099
BJI	IX 21 12 18 01.9	5.01S	145.95E	107	4.9b		
NEIC	IX 21 12 18 02.5	5.30S	145.59E	111	4.8b		
ISC	**IX 23 08 22 23.0**±.90	**5.23S**±.090	**145.62E**±.094	**101**±7.6	**4.3b**	**25**	**0-151**
EIDC	IX 23 08 22 11.7	5.2S	146.1E	0	4.2b,4.3L		¶97ix3399
NEIC	IX 23 08 22 15.4	5.14S	145.82E	33	4.5b		
NEIC	Less reliable solution.						
ISC	**IX 23 10 37 32.5**±.99	**8.13S**±.036	**150.12E**±.065	**45**±9.0	**4.9b,4.3s**	**69**	**3-150**
EIDC	IX 23 10 37 27.4	8.2S	150.2E	0	4.7b,4.2s		¶97ix3409
BJI	IX 23 10 37 31.3	8.14S	150.54E	46	5.3b,4.7s		
NEIC	IX 23 10 37 31.3	8.11S	150.05E	33	4.8b		
ISC	**IX 23 10 45 36**±8.9	**5.7S**±.68	**147.4E**±.71	**200**	3.9b	**5**	**1-22**
							¶97ix3410
ISC	**IX 28 11 40 00**±1.7	**5.8S**±.14	**147.5E**±.18	**133**±13	**3.6b**	**10**	**1-85**
EIDC	IX 28 11 39 45.5	5.8S	147.9E	0	3.7b,4.5L		¶97ix4632
NEIC	IX 28 11 40 00.1	5.88S	147.55E	137	4.0b		
NEIC	Poor solution.						
ISC	**X 01 14 22 59.9**±.51	**8.66S**±.057	**150.86E**±.071	**33**	**4.5b**,4.5s	**33**	**4-149**
EIDC	X 01 14 22 58.0	9.1S	151.0E	0	4.2b,4.1L		¶97x0100
BJI	X 01 14 23 01.5	9.07S	151.55E	56	4.9b		
NEIC	X 01 14 23 01.6	9.02S	150.80E	33	4.4b		
NEIC	Less reliable solution.						
ISC	**X 02 04 42 55.7**±.95	**5.35S**±.066	**146.8E**±.12	**235**±8.7	**4.0b**	**21**	**1-85**
NEIC	X 02 04 42 52.2	5.32S	147.01E	200	4.4b		¶97x0207
EIDC	X 02 04 42 57.6	5.4S	146.9E	240	3.7b		
NEIC	Less reliable solution.						
ISC	**X 02 11 33 07**±3.4	**6.1S**±.18	**147.2E**±.32	**33**		**5**	**1-4**
							¶97x0273
ISC	**X 03 23 38 19**±3.2	**5.8S**±.20	**147.3E**±.33	**57**±23	**3.6b**	**6**	**1-71**
EIDC	X 03 23 38 14.1	5.7S	147.3E	0	3.7b,3.9L		¶97x0549
ISC	**X 04 21 57 30**±3.1	**9.4S**±.10	**148.8E**±.21	**63**±26	**4.0b**	**11**	**2-88**
NEIC	X 04 21 57 26.4	9.41S	148.92E	33	3.8b		¶97x0742
EIDC	X 04 21 57 35.3	9.7S	149.0E	107	3.7b,3.5L		
NEIC	Less reliable solution.						
ISC	**X 07 06 25 12**±1.2	**6.03S**±.089	**147.2E**±.12	**110**±9.9	**4.2b**	**17**	**1-154**
EIDC	X 07 06 24 59.6	5.8S	147.5E	0	4.3b,4.3L		¶97x1193
NEIC	X 07 06 25 03.0	5.85S	147.35E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**X 08 02 41 59**±3.7	**5.1S**±.17	**147.2E**±.44	**33**	3.6b	**7**	**2-53**
EIDC	X 08 02 41 41.8	5.2S	149.4E	0	3.5b		¶97x1342
ISC	**X 09 05 01 12**±1.3	**6.68S**±.047	**147.33E**±.096	**63**±11	**4.8b**	**56**	**1-153**
EIDC	X 09 05 01 06.1	6.6S	147.4E	0	4.6b,4.5s		¶97x1527
HRVD	X 09 05 01 08.8±1.1	6.80S±.10	148.06E±.12	45±9.2			
BJI	X 09 05 01 11.0	6.61S	147.49E	58	4.7b		
NEIC	X 09 05 01 12.2	6.71S	147.27E	56	4.9b		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.25±.65; $M_{\theta\theta}$−3.47±.90; $M_{\phi\phi}$−0.78±1.36; $M_{r\theta}$5.48±1.14; $M_{r\phi}$0.28±1.22; $M_{\theta\phi}$0.48±.57. Principal Axes: T 7.13,Plg62°,Azm353°; N −0.80,Plg4°,Azm91°; P −6.33,Plg27°,Azm183°. Best double couple: $M_0$6.7×10^{16}Nm, NP1: φS285°,δ18°,λ104°. NP2:φS90°,δ72°,λ85°.						
NEIC	Mw5.2(HRV).						
EIDC	**X 20 16 08 08.0**	**9.7S**	**148.2E**	**44**	3.3L,3.9b		¶97x3524
NEIC	**X 23 19 47 04.2**	**6.36S**	**147.75E**	**33**			**3-25**
EIDC	X 23 19 47 01.0	6.4S	147.8E	0	3.9b,3.5L		¶97x4052
NEIC	Less reliable solution.						
ISC	**X 24 13 45 08.4**±.92	**6.67S**±.095	**146.06E**±.099	**138**±8.7	**3.9b**	**15**	**1-151**
EIDC	X 24 13 45 08.8	6.7S	146.3E	133	3.5b		¶97x4176
NEIC	X 24 13 45 08.9	6.69S	146.02E	141	4.0b		
NEIC	Less reliable solution.						
ISC	**X 25 06 05 16**±1.2	**5.3S**±.10	**146.3E**±.17	**145**±10	**4.0b**	**11**	**0-85**
NEIC	X 25 06 05 16.8	5.30S	146.26E	150	3.8b		¶97x4283
EIDC	X 25 06 05 17.8	5.3S	146.5E	149	3.6b		
NEIC	Less reliable solution.						
ISC	**X 26 07 39 10**±6.9	**5.1S**±.51	**147.8E**±.54	**33**	**3.9b**	**7**	**4-27**
EIDC	X 26 07 39 21.5	5.8S	147.7E	72	3.6b,3.8L		¶97x4433
ISC	**X 27 19 37 21**±2.9	**5.9S**±.13	**147.3E**±.14	**54**±26	**4.2b**	**17**	**1-99**
EIDC	X 27 19 37 15.6	5.7S	147.4E	0	4.2b,4.2L		¶97x4652
NEIC	X 27 19 37 19.0	5.78S	147.34E	33	4.2b		
NEIC	Less reliable solution.						
ISC	**X 28 21 56 58.8**±.92	**6.59S**±.086	**146.6E**±.11	**118**±7.8	**3.9b**	**17**	**0-86**
EIDC	X 28 21 56 58.7	6.6S	146.8E	106	3.7b		¶97x4822
NEIC	X 28 21 56 59.5	6.59S	146.56E	122	3.9b		
NEIC	Less reliable solution.						
ISC	**X 28 22 33 12**±1.6	**5.9S**±.11	**147.3E**±.14	**103**±12	**4.1b**	**15**	**1-85**
EIDC	X 28 22 33 11.9	6.0S	147.4E	87	4.0b		¶97x4826
NEIC	X 28 22 33 12.1	6.01S	147.38E	104	4.2b		
NEIC	Less reliable solution.						
ISC	**X 29 19 54 12**±1.1	**7.32S**±.043	**147.90E**±.085	**75**±9.6	**4.6b**	**58**	**1-154**
BJI	X 29 19 54 09.4	6.78S	148.35E	44	4.8b		¶97x4942
NEIC	X 29 19 54 09.9	7.31S	148.00E	56	4.8b		
EIDC	X 29 19 54 11.9	7.3S	147.7E	58	4.3b		
ISC	**X 30 05 56 49**±5.4	**9.8S**±.37	**150.1E**±.41	**33**	3.5b	**6**	**3-25**
EIDC	X 30 05 56 35.9	9.1S	150.8E	0	3.7b,3.5L		¶97x5000
ISC	**XI 02 15 03 07**±4.6	**6.2S**±.40	**147.3E**±.31	**123**±11	**3.7b**	**11**	**1-26**
EIDC	XI 02 15 02 29.8	3.8S	148.5E	0	3.8b,3.2s		¶97xi0286
NEIC	XI 02 15 03 08.0	6.30S	147.18E	124	3.9b		
NEIC	Poor solution.						
ISC	**XI 04 21 51 29**±1.5	**7.32S**±.065	**147.4E**±.15	**58**±12	**4.2b**,2.8s	**16**	**1-87**
NEIC	XI 04 21 51 29.6	7.31S	147.35E	60	4.0b		¶97xi0692
EIDC	XI 04 21 51 31.3	7.4S	147.6E	68	3.9b,4.0L		
NEIC	Less reliable solution.						
ISC	**XI 07 11 25 32**±1.2	**5.7S**±.10	**145.8E**±.13	**33**		**5**	**0-18**
NEIC	XI 07 11 25 32.2	5.70S	145.83E	33	3.1b		¶97xi1118
NEIC	Less reliable solution.						
ISC	**XI 08 09 43 15**±2.7	**6.6S**±.20	**147.3E**±.21	**0**	3.7b	**5**	**1-54**
EIDC	XI 08 09 43 18.9	6.7S	147.0E	0	3.2L,3.6b		¶97xi1249
ISC	**XI 08 16 43 27**±2.1	**5.9S**±.20	**146.7E**±.20	**72**±18	3.4b	**8**	**1-85**
EIDC	XI 08 16 43 18.6	6.2S	147.6E	0	3.5b,3.6L		¶97xi1318
NEIC	XI 08 16 43 27.1	5.91S	146.77E	74	3.9b		
EIDC	LO CONF Location						
NEIC	Poor solution.						
ISC	**XI 11 15 22 33**±1.8	**5.6S**±.20	**147.0E**±.24	**173**±13	**3.9b**	**9**	**1-85**
NEIC	XI 11 15 22 32.9	5.57S	146.94E	174	4.2b		¶97xi1813
EIDC	XI 11 15 22 35.9	5.8S	147.3E	195	3.3b		
NEIC	Poor solution.						
ISC	**XI 14 19 09 18**±9.3	**5.2S**±.85	**145.2E**±.25	**33**	3.6b	**5**	**5-27**
EIDC	XI 14 19 09 14.6	5.1S	145.1E	0	3.5L,3.7b		¶97xi2338
ISC	**XI 16 23 24 30.7**±.87	**6.35S**±.043	**147.66E**±.064	**66**±8.0	**4.5b**	**67**	**1-153**
EIDC	XI 16 23 24 23.7	6.3S	147.8E	0	4.4b,4.3L		¶97xi2707
BJI	XI 16 23 24 30.4	6.48S	147.92E	81	4.6b,4.8s		

NEIC XI 16 23 24 30.5 6.38S 147.68E 63 4.8b
ISC XI 20 09 57 35±3.2 **6.8S**±.27 **146.1E**±.25 **30**±52 3.7b **9 1-25**
NEIC XI 20 09 57 35.5 6.82S 146.17E 33 3.6b **¶97xi3439**
EIDC XI 20 09 57 38.3 7.2S 145.9E 0 3.3L,3.8b
NEIC Less reliable solution.
EIDC XI 24 08 56 05.2 5.1S 145.7E 0 3.5b,4.1L **¶97xi4288**
EIDC XI 24 19 15 01.2 6.9S 146.4E 0 3.3b,2.9L **¶97xi4367**
ISC XI 24 21 48 44.8±.68 **5.81S**±.064 **145.82E**±.084 **101**±6.7 **4.0b 31 1-151**
EIDC XI 24 21 48 43.1 5.7S 145.8E 62 3.9b,4.0L **¶97xi4393**
NEIC XI 24 21 48 45.0 5.72S 145.82E 96 3.8b
ISC XI 25 12 12 51±2.8 **6.3S**±.19 **147.2E**±.30 **44**±22 **3.7b 6 1-86**
EIDC XI 25 12 12 45.8 6.1S 147.0E 0 3.7b,4.2L **¶97xi4505**
ISC XI 25 13 03 35±2.1 **6.8S**±.13 **147.4E**±.18 **69**±11 **4.1b 17 1-54**
EIDC XI 25 13 03 30.6 6.7S 147.0E 0 4.1b,4.2L **¶97xi4515**
NEIC XI 25 13 03 35.1 6.80S 147.38E 70 4.1b
NEIC Less reliable solution.
ISC XI 25 16 42 15±3.4 **6.8S**±.28 **147.4E**±.31 **72**±16 **3.8b 8 1-26**
EIDC XI 25 16 42 02.4 6.2S 147.7E 0 4.0b,4.0L **¶97xi4549**
NEIC XI 25 16 42 15.2 6.76S 147.33E 72 3.7b
NEIC Poor solution.
ISC XI 27 15 35 33±1.6 **6.77S**±.099 **147.2E**±.16 **83**±10 **3.7b 16 1-72**
EIDC XI 27 15 35 27.6 6.7S 147.4E 21 3.7b,4.0L **¶97xi4887**
NEIC XI 27 15 35 33.4 6.78S 147.23E 84 3.9b
NEIC Less reliable solution.
ISC XI 29 18 09 53±1.0 **5.5S**±.12 **146.32E**±.086 **54**±16 3.8b **9 1-27**
NEIC XI 29 18 09 53.2 5.52S 146.32E 54 3.6b **¶97xi5304**
NEIC Less reliable solution.
ISC XI 30 13 38 29.9±.98 **6.39S**±.093 **146.5E**±.13 **122**±8.8 **3.6b 13 0-86**
EIDC XI 30 13 38 16.5 6.3S 146.8E 0 3.8b,3.7L **¶97xi5418**
NEIC XI 30 13 38 29.5 6.38S 146.50E 118 3.5b
NEIC Less reliable solution.
ISC XII 02 05 39 48±1.5 **5.4S**±.14 **147.2E**±.15 **189**±9.6 **3.9b 14 1-85**
EIDC XII 02 05 39 29.8±1.51 4.2S 146.2E 0 4.1b,4.3L **¶97xii0189**
NEIC XII 02 05 39 48.1 5.44S 147.15E 189 4.1b
EIDC Error ellipse is semi−major=61.6km semi−minor=24.2km azimuth=118
NEIC Less reliable solution.
ISC XII 07 16 47 19±2.5 **6.8S**±.14 **147.0E**±.26 **33** 3.9b **7 0-54**
EIDC XII 07 16 47 08.5 7.1S 148.5E 0 3.6b,3.2L **¶97xii1741**
EIDC Origin time error = 11.02Error ellipse is semi−major=240.0km semi−minor=34.9km azimuth=94
ISC XII 10 18 43 05±2.1 **7.15S**±.090 **148.3E**±.16 **72**±17 **3.8b 14 2-86**
NEIC XII 10 18 43 01.1 7.12S 148.49E 33 3.8b **¶97xii2406**
EIDC XII 10 18 43 08.3±2.16 7.3S 148.6E 90±16.3 3.6b,3.4s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=41.1km semi−minor=14.6km azimuth=116
ISC XII 12 17 36 01.3±.94 **6.26S**±.077 **146.5E**±.11 **76**±8.7 **3.6b 15 0-86**
EIDC XII 12 17 35 52.8±1.37 6.2S 146.9E 0 3.8b,3.2s **¶97xii2797**
NEIC XII 12 17 36 01.3 6.27S 146.52E 78 4.0b
EIDC Error ellipse is semi−major=44.7km semi−minor=19.6km azimuth=109
NEIC Less reliable solution.
ISC XII 13 00 47 33.5±.75 **5.77S**±.076 **147.7E**±.14 **33** **4.3b 20 1-154**
EIDC XII 13 00 47 33.1±4.75 5.8S 147.7E 19±30.4 4.0b,4.7L **¶97xii2851**
NEIC XII 13 00 47 33.6 5.77S 147.63E 33 4.4b
EIDC Error ellipse is semi−major=35.3km semi−minor=13.6km azimuth=110
NEIC Less reliable solution.
ISC XII 16 23 50 46.8±.56 **5.93S**±.027 **147.18E**±.031 **115**±5.3 **5.5b 297 1-164**
MOS XII 16 23 50 37.6 5.8S 147.3E 33 5.9b **¶97xii3525**
BJI XII 16 23 50 39.1 6.51S 147.86E 103 5.2b
NEIC XII 16 23 50 45.2 5.87S 147.17E 103 5.7b
EIDC XII 16 23 50 47.0±1.17 5.9S 147.1E 100±8.0 5.2b,4.9s
HRVD XII 16 23 50 50.2±.2 6.08S±.02 147.31E±.02 108±1.3
NEIC Mw5.8(GS), Mw5.8(HRV).
NEIC Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}2.62; $M_{\theta\phi}$1.38; $M_{\phi\phi}$−4.00; $M_{r\theta}$2.84; $M_{r\phi}$−2.92; $M_{\theta\theta}$0.31. Depth 89km; Principal axes: T 5.41,Plg53°,Azm23°; N −0.02,Plg26°, Azm154°; P −5.38,Plg24°,Azm257°. Best double couple: $M_0$5.4×10^{17}Nm; NP1:ϕ_S27°,δ32°, λ147°. NP2:ϕ_S146°,δ73°,λ63°.
EIDC Error ellipse is semi−major=16.4km semi−minor=9.9km azimuth=113
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c79; Mantle waves: s17,c19; Half duration: 1s8. Moment tensor: Scale 10^{17}Nm; M_{rr}2.47±.08; $M_{\theta\theta}$0.83±.12; $M_{\phi\phi}$−3.30±.14; $M_{r\theta}$3.05±.08; $M_{r\phi}$−2.98±.08; $M_{\theta\phi}$−0.72±.11. Principal Axes: T 5.70,Plg52°,Azm29°; N −1.07,Plg26°,Azm159°; P −4.63,Plg25°,Azm262°. Best double couple: $M_0$5.2×10^{17}Nm, NP1:ϕ_S35°,δ31°,λ150°. NP2:ϕ_S151°,δ75°,λ63°.
ISC XII 18 12 05 50.0±.83 **5.02S**±.056 **146.19E**±.063 **47**±8.4 **4.4b,3.7s 30 0-99**
BJI XII 18 12 05 49.0 5.03S 145.99E 40 4.7b **¶97xii3759**
NEIC XII 18 12 05 49.9 5.03S 146.21E 47 4.2b
EIDC XII 18 12 05 53.4±4.67 5.1S 146.1E 60±44.1 4.2b,3.1s
EIDC Error ellipse is semi−major=34.1km semi−minor=12.9km azimuth=106Multiple, same az
ISC XII 19 01 07 25.2±.74 **6.04S**±.032 **147.15E**±.040 **87**±6.7 **5.2b 197 1-164**
BJI XII 19 01 07 20.0 6.40S 147.55E 77 5.5b,5.0s **¶97xii3866**
NEIC XII 19 01 07 20.9 6.00S 147.17E 45 5.2b,5.2s
MOS XII 19 01 07 21.4 6.0S 147.2E 48 5.7b
EIDC XII 19 01 07 22.3±.44 6.0S 147.2E 42±3.5 5.1b,5.1s
HRVD XII 19 01 07 27.7±.2 6.09S±.02 147.44E±.02 50±1.7
NEIC Mw5.5(HRV).
EIDC Error ellipse is semi−major=15.1km semi−minor=8.9km azimuth=110
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c76; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}2.16±.05; $M_{\theta\theta}$−2.04±.07; $M_{\phi\phi}$−0.12±.09; $M_{r\theta}$0.00±.09; $M_{r\phi}$0.15±.08; $M_{\theta\phi}$0.44±.06. Principal Axes: T 2.17,Plg86°,Azm276°; N −0.04, Plg4°,Azm102°; P −2.13,Plg0°,Azm12°. Best double couple: $M_0$2.2×10^{17}Nm, NP1:ϕ_S98°, δ45°,λ85°. NP2:ϕ_S286°,δ46°,λ95°.
ISC XII 19 05 26 55±1.5 **5.6S**±.14 **146.7E**±.24 **33** **3.8b 7 1-85**
EIDC XII 19 05 26 49.4±2.21 6.8S 148.6E 0 3.9b,3.7L **¶97xii3896**
NEIC XII 19 05 26 54.8 5.62S 146.69E 33
EIDC Error ellipse is semi−major=96.0km semi−minor=22.2km azimuth=121
NEIC Poor solution.
ISC XII 20 01 18 58±2.3 **7.1S**±.12 **146.5E**±.18 **10**±20 3.8b **8 1-87**
EIDC XII 20 01 18 57.8±1.61 7.0S 146.6E 0 3.8b,3.6L **¶97xii4066**
NEIC XII 20 01 18 58.3 7.05S 146.49E 10
EIDC Error ellipse is semi−major=36.8km semi−minor=24.0km azimuth=109
NEIC Less reliable solution.
ISC XII 22 02 05 51.6±.48 **5.56S**±.024 **147.84E**±.025 **190**±4.7 **6.3b 911 2-164**
NEIC XII 22 02 05 50.0 5.50S 147.87E 179 6.3b,6.7s **¶97xii4335**
MOS XII 22 02 05 50.8 5.5S 147.9E 180 6.6b
BJI XII 22 02 05 51.5 5.79S 148.11E 209 6.2b
EIDC XII 22 02 05 56.9±.53 5.6S 147.8E 230±5.0 5.9b
HRVD XII 22 02 06 01.8±.1 5.56S±.01 148.05E±.01 197±.4
NEIC Mw7.2(HRV), Me7.1(GS). Damage.
NEIC Radiated energy from the P−wave first−motion solution: 8.7±2.7×10^{14}Nm/11
NEIC Mw 7.0 (GS). Mb 6.4 (BRK). Some minor damage at Lae. Felt at Madang, Morobe, Port Moresby and on New Britain. M_0=5.6×10^{19}Nm (PPT).
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S190°,δ55°,λ−70°. NP2:ϕ_S338°,δ40°, λ−116°. Principal axes: T Plg8°,Azm266°; P Plg72°,Azm151°. Complex event observed on broadband displacement seismograms.
NEIC Moment tensor solution: s26, scale 10^{19}Nm; M_{rr}−3.80; $M_{\theta\theta}$−0.15; $M_{\phi\phi}$3.96; $M_{r\theta}$0.73; $M_{r\phi}$0.83; $M_{\theta\phi}$−0.43. Depth 164km; Principal axes: T 4.07,Plg6°,Azm265°; N −0.03,Plg12°, Azm356°; P −4.05,Plg77°,Azm150°. Best double couple: $M_0$4.1×10^{19}Nm; NP1:ϕ_S342°,δ41°, λ−108°. NP2:ϕ_S186°,δ52°,λ−75°.
EIDC Error ellipse is semi−major=17.1km semi−minor=11.0km azimuth=103
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c125; Mantle waves: s54,c145; Half duration: 8s7. Moment tensor: Scale 10^{19}Nm; M_{rr}−0.44±.03; $M_{\theta\theta}$−5.16±.03; $M_{\phi\phi}$5.60±.03; $M_{r\theta}$3.26±.02; $M_{r\phi}$0.55±.02; $M_{\theta\phi}$−0.20±.03. Principal Axes: T 5.65,Plg5°,Azm271°; N 1.19,Plg62°,Azm11°; P −6.84,Plg27°,Azm178°. Best double couple: $M_0$6.2×10^{19}Nm, NP1:ϕ_S318°,δ67°,λ−164°. NP2:ϕ_S221°,δ75°,λ−24°.
ISC XII 23 03 05 31.1±.72 **6.03S**±.037 **147.14E**±.050 **72**±6.5 **4.8b 133 1-154**
BJI XII 23 03 05 29.3 5.92S 147.59E 69 4.9b **¶97xii4526**
NEIC XII 23 03 05 30.7 6.06S 147.18E 65 4.9b
EIDC XII 23 03 05 31.4±3.63 6.0S 147.2E 58±32.1 4.6b,4.1s
HRVD XII 23 03 05 33.1±.6 6.12S±.05 147.49E±.07 52±4.9
NEIC Mw5.1(HRV).
EIDC Error ellipse is semi−major=18.5km semi−minor=8.9km azimuth=111
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c38; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.43±.34; $M_{\theta\theta}$−5.10±.52; $M_{\phi\phi}$0.66±.75; $M_{r\theta}$2.83±.64; $M_{r\phi}$−0.68±.55; $M_{\theta\phi}$1.67±.34. Principal Axes: T 5.22,Plg75°,Azm11°; N 1.11, Plg1°,Azm105°; P −6.34,Plg15°,Azm195°. Best double couple: $M_0$5.8×10^{16}Nm, NP1: ϕ_S286°,δ30°,λ92°. NP2:ϕ_S104°,δ60°,λ89°.
ISC XII 23 03 44 37±1.4 **5.8S**±.14 **147.2E**±.17 **33** **4.0b 13 1-154**
EIDC XII 23 03 44 33.3±1.21 5.9S 147.3E 0 4.0b,4.0L **¶97xii4536**
NEIC XII 23 03 44 37.3 5.79S 147.10E 33 3.8b
EIDC Error ellipse is semi−major=54.9km semi−minor=23.0km azimuth=121
NEIC Poor solution.
ISC XII 26 14 15 22.0±.82 **6.44S**±.078 **147.4E**±.14 **10** **3.8b 15 1-86**
EIDC XII 26 14 15 21.2±1.46 6.5S 147.9E 0 3.8b,3.8L **¶97xii5144**
NEIC XII 26 14 15 22.3 6.44S 147.23E 10 3.4b
EIDC Error ellipse is semi−major=61.1km semi−minor=17.0km azimuth=102
NEIC Less reliable solution.
ISC XII 30 07 58 16±1.0 **6.12S**±.052 **147.50E**±.088 **103**±8.2 **4.6b 57 1-153**
EIDC XII 30 07 58 14.8±1.14 6.1S 147.5E 76±9.1 4.3b,3.3s **¶97xii5706**
NEIC XII 30 07 58 16.1 6.14S 147.48E 103 5.2b
BJI XII 30 07 58 39.1 6.10S 147.50E 103 4.6b
EIDC Error ellipse is semi−major=32.6km semi−minor=12.5km azimuth=99
ISC XII 31 22 39 41.8±.73 **5.80S**±.087 **145.49E**±.087 **118**±7.1 **3.8b 20 1-151**
EIDC XII 31 22 39 35.9±9.68 5.7S 145.7E 53±84.0 3.6b,3.7L **¶97xii5993**
NEIC XII 31 22 39 41.8 5.80S 145.48E 117 4.3b
EIDC Error ellipse is semi−major=50.6km semi−minor=24.9km azimuth=74Multiple, same az

(208) Arafura Sea.

ISC VII 01 07 33 08.5±.39 **9.22S**±.047 **139.14E**±.066 **10** **4.4b,**3.6s **35 4-144**
BJI VII 01 07 33 09.1 9.30S 139.07E 9 4.3b **¶97vii0042**
NEIC VII 01 07 33 09.3 9.27S 138.98E 10 4.8b
EIDC VII 01 07 33 09.7 9.3S 139.0E 0 4.1b,4.8L
DJA VII 01 07 33 13.8 8.8S 139.2E 200 5.9D,5.9L

SEISMIC REGION 17.
CAROLINE ISLANDS TO GUAM.

(209) Western Caroline Islands.

ISC VII 05 08 12 56±2.4 **10.37N**±.083 **140.7E**±.19 **40**±23 **4.2b 19 5-151**
EIDC VII 05 08 12 51.9 10.4N 141.0E 0 4.1b **¶97vii0700**
NEIC VII 05 08 12 55.4 10.38N 140.66E 33 4.7b
NEIC Less reliable solution.
ISC VII 05 17 55 23.0±.96 **10.3N**±.13 **140.8E**±.27 **33** **3.6b 7 26-117**
EIDC VII 05 17 55 19.8 10.4N 140.9E 0 3.6b **¶97vii0762**
NEIC VII 05 17 55 23.2 10.28N 140.79E 33
NEIC Poor solution.
ISC VII 09 11 59 39±1.4 **6.7N**±.17 **131.1E**±.19 **33** **3.6b 6 6-55**
EIDC VII 09 11 59 36.8 6.0N 127.0E 0 3.8b,3.3s **¶97vii1333**
EIDC VII 24 09 44 36.6 3.4N 133.1E 0 3.3b 23-83 ¶97vii3652
ISC VIII 09 16 31 43±1.3 **5.2N**±.16 **132.8E**±.92 **33** **3.3b 4 25-81**
EIDC VIII 09 16 31 39.2 5.3N 132.7E 0 3.4b **¶97viii1281**
ISC Poorly determined
ISC IX 03 07 53 31±1.7 **11.50N**±.060 **142.0E**±.10 **38**±17 **4.3b,**4.8s **31 3-150**
BJI IX 03 07 53 31.0 11.50N 142.00E 43 4.6b,4.9s **¶97ix0396**
NEIC IX 03 07 53 31.2 11.52N 142.01E 43 4.2b
EIDC IX 03 07 53 33.4 11.6N 142.1E 43 4.1b
ISC IX 08 06 49 28.1±.72 **11.7N**±.13 **141.7E**±.14 **33** **4.1b 13 4-151**
EIDC IX 08 06 49 25.3 11.9N 141.3E 0 4.2b,3.4s **¶97ix1186**
NEIC IX 08 06 49 27.9 11.68N 141.68E 33
NEIC Less reliable solution.
ISC IX 10 18 21 54.7±.91 **12.0N**±.17 **141.7E**±.14 **33** **3.9b 6 3-91**
EIDC IX 10 18 21 49.7 12.2N 142.1E 0 3.9b **¶97ix1556**
NEIC IX 10 18 21 54.6 11.97N 141.72E 33
NEIC Less reliable solution.
EIDC IX 14 13 40 00.4 4.4N 139.2E 0 3.7b ¶97ix2130
EIDC LO CONF Location
ISC IX 16 08 29 05±2.0 **11.96N**±.094 **141.7E**±.17 **102**±21 **4.1b 18 4-151**
EIDC IX 16 08 28 54.4 12.0N 141.8E 0 4.2b,3.9s **¶97ix2351**
NEIC IX 16 08 29 05.0 11.96N 141.65E 100
ISC X 05 22 00 31±2.0 **10.95N**±.078 **140.4E**±.12 **87**±20 **4.3b 23 5-92**
BJI X 05 22 00 26.4 10.86N 141.41E 100 4.6b **¶97x0942**
NEIC X 05 22 00 30.6 10.96N 140.37E 86
EIDC X 05 22 00 35.9 11.0N 140.4E 121 4.0b
ISC X 06 17 40 01.8±.88 **11.3N**±.13 **140.1E**±.15 **60**±2.9* **4.0b 9 5-73**
NEIC X 06 17 40 01.0 11.16N 141.28E 60 3.8b **¶97x1089**
EIDC X 06 17 40 03.6 11.1N 141.2E 63 3.7b,3.1s
NEIC Poor solution.
ISC X 15 12 23 54±4.1 **3.19N**±.079 **133.1E**±.17 **49**±39 **4.2b,3.7s 23 16-86**
EIDC X 15 12 23 49.1 3.1N 133.1E 0 4.1b,3.6s **¶97x2631**
BJI X 15 12 23 51.8 3.29N 133.31E 33 4.6b
NEIC X 15 12 23 52.0 3.18N 133.13E 33 4.3b
NEIC Less reliable solution.
ISC X 27 12 07 31±1.3 **9.5N**±.16 **138.5E**±.29 **33** **3.8b 5 30-75**
EIDC X 27 12 07 27.6 9.6N 138.6E 0 3.9b **¶97x4608**
ISC XI 25 21 34 23±1.1 **11.3N**±.15 **141.2E**±.29 **33** **3.6b 6 32-92**
EIDC XI 25 21 34 19.6 11.4N 141.2E 0 3.7b **¶97xi4583**
ISC XII 10 16 56 28±1.0 **10.6N**±.14 **138.7E**±.28 **33** **4.0b,3.7s 6 34-74**
EIDC XII 10 16 56 25.2±1.10 10.6N 138.7E 0 4.0b,3.6s **¶97xii2393**
NEIC XII 10 16 56 28.1 10.64N 138.66E 33
EIDC Error ellipse is semi−major=41.1km semi−minor=21.2km azimuth=81

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC		Poor solution.						
ISC	**XII**	**18 14 55 53**±1.1	**10.7N**±.17	**141.5E**±.28	**33**	**3.3b**	**5**	**31-87**
EIDC	XII	18 14 55 49.6±1.14	10.7N	141.7E	0	3.4b		¶97xii3782
NEIC	XII	18 14 55 52.8	10.72N	141.50E	33	3.7b		
EIDC		Error ellipse is semi−major=43.3km semi−minor=24.4km azimuth=104						
NEIC		Poor solution.						
EIDC	**XII**	**21 16 57 45.9**	**3.7N**	**139.7E**	**0**	**3.7b**		**24-35**
								¶97xii4279
EIDC		Origin time error = 13.28Error ellipse is semi−major=238.5km semi−minor=169.3km azimuth=149						

(210) South of the Marianas.

ISC	**VII**	**02 06 14 23**±1.0	**12.79N**±.062	**142.5E**±.12	**186**±12	**4.4b**	**30**	**2-150**
EIDC	VII	02 06 14 13.0	12.8N	142.9E	74	4.2b		¶97vii0190
BJI	VII	02 06 14 22.9	12.73N	142.52E	185	4.4b		
NEIC	VII	02 06 14 23.2	12.80N	142.50E	186	4.4b		
ISC	**VII**	**02 13 39 04**±1.5	**12.4N**±.10	**144.1E**±.22	**65**±17	**3.7b**	**13**	**1-92**
EIDC	VII	02 13 38 57.8	12.5N	144.2E	0	3.9b,3.8s		¶97vii0249
NEIC	VII	02 13 39 04.4	12.44N	144.13E	66	3.8b		
NEIC		Less reliable solution.						
ISC	**VII**	**02 14 16 29**±1.6	**12.3N**±.10	**144.2E**±.23	**51**±18	**3.7b**	**15**	**1-144**
NEIC	VII	02 14 16 29.2	12.27N	144.31E	58	3.8b		¶97vii0255
EIDC	VII	02 14 16 47.6	12.2N	144.0E	205	3.2b		
NEIC		Less reliable solution.						
ISC	**VII**	**04 18 00 29.4**±.82	**11.8N**±.13	**144.0E**±.24	**33**	**3.7b**	**10**	**2-92**
EIDC	VII	04 18 00 26.7	11.8N	143.8E	0	3.7b,3.3s		¶97vii0600
NEIC	VII	04 18 00 29.5	11.79N	143.97E	33			
NEIC		Poor solution.						
ISC	**VII**	**07 08 52 06.1**±.88	**13.2N**±.11	**146.6E**±.11	**33**	**3.9b**	**12**	**2-90**
EIDC	VII	07 08 52 01.6	13.7N	145.1E	0	3.8b		¶97vii1017
NEIC	VII	07 08 52 06.1	13.17N	146.64E	33	4.3b		
NEIC		Less reliable solution.						
ISC	**VII**	**09 01 43 52**±2.3	**12.4N**±.10	**143.5E**±.23	**38**±22	**3.9b**	**13**	**2-92**
NEIC	VII	09 01 43 51.2	12.38N	143.45E	32			¶97vii1270
EIDC	VII	09 01 43 52.7	12.4N	143.4E	30	3.8b		
NEIC		Less reliable solution.						
ISC	**VII**	**10 09 25 52**±1.2	**12.73N**±.093	**145.4E**±.25	**33**	**3.7b**	**10**	**1-83**
EIDC	VII	10 09 25 50.1	11.7N	148.1E	0	3.7b		¶97vii1489
NEIC	VII	10 09 25 52.2	12.74N	145.44E	33	4.0b		
NEIC		Less reliable solution.						
ISC	**VII**	**15 23 44 11**±1.2	**11.9N**±.11	**145.1E**±.43	**33**	**4.1b**	**7**	**2-93**
EIDC	VII	15 23 44 07.4	11.8N	145.4E	0	3.9b,2.7s		¶97vii2369
ISC	**VII**	**21 23 47 39**±1.7	**11.59N**±.078	**142.30E**±.096	**34**±15	**4.3b**	**34**	**3-156**
EIDC	VII	21 23 47 35.0	11.6N	142.6E	0	4.3b		¶97vii3299
BJI	VII	21 23 47 37.9	11.51N	142.34E	32	4.4b		
NEIC	VII	21 23 47 38.6	11.59N	142.28E	33	4.7b		
ISC	**VII**	**22 15 23 16.6**±.78	**12.5N**±.12	**143.7E**±.12	**33**	**3.5b**	**10**	**2-96**
EIDC	VII	22 15 23 16.4	12.6N	143.2E	0	3.6b		¶97vii3389
NEIC	VII	22 15 23 16.6	12.54N	143.75E	33			
NEIC		Less reliable solution.						
ISC	**VII**	**23 21 41 01**±1.4	**11.41N**±.044	**142.02E**±.085	**41**±14	**4.4b,3.8s**	**54**	**4-150**
EIDC	VII	23 21 40 56.8	11.5N	142.2E	0	4.4b,3.7s		¶97vii3576
BJI	VII	23 21 40 59.7	11.36N	142.05E	30	4.5b		
NEIC	VII	23 21 41 00.4	11.43N	141.96E	33	4.5b		
ISC	**VIII**	**01 16 46 47**±1.6	**12.21N**±.068	**143.8E**±.13	**36**±16	**4.2b,3.7s**	**31**	**2-149**
EIDC	VIII	01 16 46 42.7	12.4N	143.9E	0	4.2b,3.8s		¶97viii0092
BJI	VIII	01 16 46 46.1	12.16N	143.96E	40	4.5b		
NEIC	VIII	01 16 46 47.0	12.32N	143.70E	39	4.3b		
NEIC		Less reliable solution.						
ISC	**VIII**	**04 10 54 17**±3.2	**12.08N**±.060	**143.92E**±.099	**24**±24	**4.3b,3.9s**	**40**	**2-149**
EIDC	VIII	04 10 54 14.1	12.1N	144.0E	0	4.4b,4.0s		¶97viii0496
NEIC	VIII	04 10 54 17.6	12.10N	143.88E	33	4.4b		
BJI	VIII	04 10 54 17.8	11.89N	144.47E	38			
ISC	**VIII**	**12 18 17 45**±1.5	**12.7N**±.12	**144.9E**±.30	**65**±13	**3.7b**	**16**	**1-148**
EIDC	VIII	12 18 17 39.3	12.6N	144.9E	0	3.8b		¶97viii1788
NEIC	VIII	12 18 17 43.5	12.61N	144.44E	33			
NEIC		Less reliable solution.						
ISC	**VIII**	**12 21 35 41**±1.5	**12.74N**±.078	**143.2E**±.23	**134**±20	**4.0b**	**18**	**2-149**
EIDC	VIII	12 21 35 26.7	12.8N	143.3E	0	4.2b		¶97viii1809
NEIC	VIII	12 21 35 40.6	12.74N	143.21E	133	4.3b		
NEIC		Less reliable solution.						
ISC	**VIII**	**15 04 01 19**±1.4	**12.12N**±.058	**144.0E**±.11	**34**±13	**4.4b**	**35**	**2-149**
BJI	VIII	15 04 01 17.9	12.01N	144.15E	31			¶97viii2159
NEIC	VIII	15 04 01 19.1	12.13N	143.97E	33	4.6b		
EIDC	VIII	15 04 01 35.1	12.1N	143.9E	178	3.9b		
ISC	**VIII**	**16 18 54 22**±3.8	**10.46N**±.071	**145.1E**±.14	**23**±27	**4.2b,**3.5s	**31**	**3-146**
EIDC	VIII	16 18 54 19.7	10.5N	145.4E	0	4.2b,4.1L		¶97viii2404
NEIC	VIII	16 18 54 23.3	10.48N	145.07E	33	4.4b		
BJI	VIII	16 18 54 24.1	10.45N	145.16E	43	4.5b		
NEIC		Less reliable solution.						
ISC	**VIII**	**31 23 16 51**±1.3	**13.4N**±.24	**143.1E**±.80	**33**	**3.6b**	**4**	**34-91**
EIDC	VIII	31 23 16 47.5	13.5N	143.0E	0	3.7b		¶97viii4725
ISC		Poorly determined						
EIDC	**IX**	**01 04 49 17.1**	**11.1N**	**144.1E**	**0**	**4.1b,**3.5s		¶97ix0046
ISC	**IX**	**11 15 40 01**±1.7	**11.96N**±.069	**143.6E**±.17	**58**±18	**4.2b,3.6s**	**21**	**2-149**
EIDC	IX	11 15 39 54.9	12.0N	143.8E	0	4.1b,3.6s		¶97ix1695
NEIC	IX	11 15 39 58.7	11.93N	143.54E	33	4.5b		
NEIC		Less reliable solution.						
ISC	**IX**	**11 16 08 02.0**±.98	**12.4N**±.15	**142.8E**±.16	**33**	**3.7b**	**6**	**2-71**
EIDC	IX	11 16 07 59.4	12.4N	142.8E	0	3.8b		¶97ix1698
NEIC	IX	11 16 08 02.0	12.40N	142.79E	33			
NEIC		Less reliable solution.						
ISC	**IX**	**15 02 02 35**±1.7	**11.46N**±.096	**142.5E**±.16	**90**±20	**4.1b**	**17**	**3-92**
EIDC	IX	15 02 02 25.4	11.5N	142.6E	0	4.1b,3.9s		¶97ix2190
BJI	IX	15 02 02 35.8	11.50N	142.60E	100	4.7b		
NEIC	IX	15 02 02 35.8	11.46N	142.57E	100	4.4b		
EIDC	**IX**	**16 12 46 25.3**	**12.5N**	**144.7E**	**0**	**4.1b**		¶97ix2384
ISC	**IX**	**19 19 56 28**±1.7	**12.1N**±.11	**144.8E**±.28	**51**±18	**3.9b,**3.6s	**11**	**1-92**
EIDC	IX	19 19 56 22.7	12.1N	144.8E	0	3.9b,3.5s		¶97ix2836
NEIC	IX	19 19 56 26.3	12.03N	144.75E	33	3.9b		
NEIC		Less reliable solution.						
ISC	**IX**	**28 08 48 05.2**±.89	**12.74N**±.045	**143.40E**±.049	**101**±8.0	**4.7b**	**112**	**2-169**
HRVD	IX	28 08 48 02.9±1.1	12.23N±.11	143.53E±.14	89±9.4			¶97ix4598
NEIC	IX	28 08 48 04.9	12.78N	143.37E	99	4.9b		
BJI	IX	28 08 48 05.4	12.78N	143.56E	113	5.1b		
EIDC	IX	28 08 48 08.1	12.7N	143.6E	114	4.4b		
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s12,c13; Mantle waves: s4,c5; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.98±.73; $M_{\theta\theta}$−4.70±.67; $M_{\phi\phi}$8.69±1.14; $M_{r\theta}$−3.68±.66; $M_{r\phi}$−2.15±.95; $M_{\theta\phi}$−4.38±1.16. Principal Axes: T 10.1,Plg4°,Azm75°; N −0.8,Plg52°,Azm170°; P −9.3,Plg38°,Azm341°. Best double couple: M0 9.7×10^{16}Nm, NP1:ϕ_S125°,δ61°,λ−154°. NP2:ϕ_S22°,δ68°,λ−32°.						
NEIC		Mw5.3(HRV).						
ISC	**IX**	**28 23 14 15.4**±.92	**12.1N**±.13	**141.4E**±.23	**33**	**3.6b**	**7**	**28-71**
EIDC	IX	28 23 14 11.9	12.1N	141.6E	0	3.7b		¶97ix4786
NEIC	IX	28 23 14 14.8	12.08N	141.60E	33			
NEIC		Poor solution.						
ISC	**IX**	**30 09 44 20**±1.6	**12.3N**±.16	**141.5E**±.41	**136**	**3.8b**	**6**	**33-91**
EIDC	IX	30 09 44 21.3	12.3N	141.6E	136	3.7b		¶97ix5191
ISC	**X**	**09 01 08 11**±5.6	**10.82N**±.063	**144.3E**±.14	**11**±35	**4.4b,3.4s**	**27**	**3-148**
NEIC	X	09 01 08 10.8	10.82N	144.27E	10	4.6b		¶97x1504
EIDC	X	09 01 08 21.6	10.8N	144.2E	84	4.1b,3.4s		
NEIC		Less reliable solution.						
ISC	**X**	**15 13 08 47**±1.8	**11.49N**±.060	**142.5E**±.12	**42**±19	**4.2b,**3.9s	**26**	**3-150**
BJI	X	15 13 08 47.4	11.50N	142.50E	50	4.4b		¶97x2641
NEIC	X	15 13 08 47.4	11.50N	142.51E	50	4.4b		
EIDC	X	15 13 08 49.8	11.6N	142.5E	49	4.0b,3.6s		
ISC	**X**	**17 12 38 42**±1.8	**12.5N**±.14	**142.7E**±.26	**171**±23	**3.8b**	**9**	**2-70**
EIDC	X	17 12 38 23.9	12.6N	142.9E	0	4.0b		¶97x2987
NEIC	X	17 12 38 37.6	12.25N	142.28E	100	4.3b		
NEIC		Less reliable solution.						
ISC	**X**	**23 12 51 54**±2.0	**12.0N**±.13	**143.9E**±.23	**52**±19	**3.7b**	**10**	**2-92**
EIDC	X	23 12 51 48.9	12.1N	144.0E	0	3.8b		¶97x3999
NEIC	X	23 12 51 52.5	12.00N	143.83E	33			
NEIC		Less reliable solution.						
ISC	**X**	**24 16 39 26**±1.1	**12.0N**±.11	**146.1E**±.24	**33**	**3.6b**	**8**	**2-69**
EIDC	X	24 16 39 23.2	12.1N	145.9E	0	3.7b		¶97x4196
NEIC	X	24 16 39 25.6	12.01N	146.13E	33			
NEIC		Single network solution.						
ISC	**X**	**30 09 32 13**±1.8	**12.12N**±.093	**144.2E**±.18	**46**±18	**3.9b,**3.5s	**15**	**2-148**
NEIC	X	30 09 32 12.0	12.10N	144.12E	33	3.5b		¶97x5018
EIDC	X	30 09 32 17.9	12.1N	144.1E	66	3.7b,3.5s		
NEIC		Less reliable solution.						
EIDC	**XI**	**02 05 56 44.2**	**11.4N**	**146.0E**	**0**	**3.5b**		¶97xi0202
EIDC	**XI**	**03 16 08 54.7**	**13.0N**	**143.5E**	**0**	**3.9b**		¶97xi0491
ISC	**XI**	**07 08 39 14**±1.2	**12.8N**±.13	**145.7E**±.22	**33**	**3.7b**	**6**	**1-69**
EIDC	XI	07 08 39 10.9	12.8N	145.9E	0	3.7b		¶97xi1100
NEIC	XI	07 08 39 13.8	12.82N	145.69E	33			
NEIC		Less reliable solution.						
ISC	**XI**	**10 19 04 23**±1.1	**12.32N**±.031	**145.65E**±.039	**53**±10	**5.2b,5.0s**	**236**	**1-166**
EIDC	XI	10 19 04 21.6	12.4N	145.8E	31	4.9b,4.9s		¶97xi1660
HRVD	XI	10 19 04 23.3±.4	12.07N±.03	145.97E±.04	43±3.0			
MOS	XI	10 19 04 23.7	12.4N	145.6E	56	5.6b		
NEIC	XI	10 19 04 24.7	12.36N	145.58E	69	5.2b,5.1s		
BJI	XI	10 19 04 24.8	12.50N	145.71E	69	5.3b,4.9s		
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c51; Mantle waves: s4,c5; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.51±.05; $M_{\theta\theta}$−0.09±.06; $M_{\phi\phi}$−1.42±.08; $M_{r\theta}$−0.31±.11; $M_{r\phi}$−1.03±.10; $M_{\theta\phi}$−0.21±.05. Principal Axes: T 1.87,Plg72°,Azm112°; N −0.07,Plg4°,Azm11°; P −1.80,Plg18°,Azm280°. Best double couple: M0 1.8×10^{17}Nm, NP1:ϕ_S5°,δ27°,λ82°. NP2:ϕ_S193°,δ63°,λ94°.						
NEIC		Mw5.5(GS), Mw5.5(HRV)						
NEIC		Felt I=III MM in the southern part of Guam.						
NEIC		Moment tensor solution: s7, scale 10^{17}Nm; M_{rr}1.43; $M_{\theta\theta}$0.08; $M_{\phi\phi}$−1.51; $M_{r\theta}$−0.38; $M_{r\phi}$−0.64; $M_{\theta\phi}$−0.23. Depth 38km; Principal axes: T 1.63,Plg74°,Azm139°; N 0.06,Plg10°, Azm12°; P −1.69,Plg12°,Azm280°. Best double couple: M0 1.7×10^{17}Nm; NP1:ϕ_S357°,δ34°, λ72°. NP2:ϕ_S198°,δ58°,λ101°.						
ISC	**XI**	**15 21 43 34**±1.7	**13.1N**±.14	**143.4E**±.40	**206**±18	**4.0b**	**17**	**1-149**
EIDC	XI	15 21 43 11.6	13.3N	143.4E	0	4.2b		¶97xi2543
NEIC	XI	15 21 43 33.3	13.14N	143.29E	200	4.1b		
NEIC		Less reliable solution.						
ISC	**XI**	**17 05 25 57**±5.0	**12.18N**±.056	**141.8E**±.14	**193**±48	**4.3b**	**47**	**19-157**
BJI	XI	17 05 25 51.6	12.25N	141.94E	152	4.6b		¶97xi2743
NEIC	XI	17 05 25 52.2	12.22N	141.86E	150	4.5b		
EIDC	XI	17 05 25 55.3	12.2N	141.9E	161	4.2b		
EIDC	**XI**	**20 19 08 14.0**	**11.5N**	**142.7E**	**0**	**3.8b,**2.9s		¶97xi3517
ISC	**XI**	**21 15 28 42**±1.3	**13.7N**±.11	**143.9E**±.35	**33**	**4.2b**	**7**	**23-51**
EIDC	XI	21 15 28 38.3	13.7N	144.0E	0	4.0b		¶97xi3679
ISC	**XI**	**25 13 15 08**±4.4	**12.84N**±.059	**143.4E**±.13	**164**±42	**4.4b**	**43**	**24-149**
BJI	XI	25 13 15 05.7	12.79N	143.46E	150	4.7b		¶97xi4519
NEIC	XI	25 13 15 06.9	12.89N	143.38E	150	4.6b		
EIDC	XI	25 13 15 09.2	12.8N	143.4E	164	4.1b		
NEIC		Less reliable solution.						
EIDC	**XI**	**28 16 19 14.5**	**12.5N**	**144.8E**	**0**	**3.6b**		¶97xi5114
ISC	**XI**	**29 19 47 34**±4.7	**12.13N**±.082	**143.4E**±.14	**94**±43	**4.6b**	**43**	**17-149**
EIDC	XI	29 19 47 21.8	12.1N	143.9E	0	4.5b,3.9s		¶97xi5315
BJI	XI	29 19 47 26.4	12.35N	143.61E	29	4.8b		
NEIC	XI	29 19 47 27.2	12.14N	143.42E	33	4.8b		
ISC	**XII**	**09 21 25 37**±1.0	**13.03N**±.083	**143.4E**±.20	**222**±12	**3.9b**	**17**	**2-91**
NEIC	XII	09 21 25 36.8	13.04N	143.41E	222	4.1b		¶97xii2242
EIDC	XII	09 21 25 49.9±1.46	12.9N	143.3E	339±14.0	3.6b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=29.4km semi−minor=14.3km azimuth=94						
ISC	**XII**	**20 21 00 24**±2.0	**12.14N**±.049	**141.11E**±.076	**133**±19	**4.6b**	**81**	**15-104**
BJI	XII	20 21 00 26.2	12.10N	141.10E	150	4.8b		¶97xii4169
NEIC	XII	20 21 00 26.2	12.12N	141.11E	150	4.8b		
EIDC	XII	20 21 00 28.4±.80	12.1N	141.4E	161±7.6	4.2b,4.0s		
EIDC		Error ellipse is semi−major=31.3km semi−minor=10.3km azimuth=82						
ISC	**XII**	**20 21 17 57**±2.5	**12.28N**±.045	**141.27E**±.076	**48**±22	**4.8b,4.7s**	**98**	**15-148**
MOS	XII	20 21 17 54.2	12.2N	141.3E	33	5.7b,4.8s		¶97xii4171
NEIC	XII	20 21 17 54.8	12.31N	141.21E	33	5.1b		
BJI	XII	20 21 17 55.5	12.44N	141.63E	41	5.0b,4.8s		
HRVD	XII	20 21 17 56.1±.4	12.25N±.07	140.93E±.08	15			
EIDC	XII	20 21 17 56.7±.55	12.2N	141.3E	36±3.6	4.4b,4.6s		
NEIC		Mw5.4(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c42; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}−9.62±.88; $M_{\theta\theta}$9.11±.74; $M_{\phi\phi}$0.52±1.36; $M_{r\theta}$7.50±3.59; $M_{r\phi}$2.90±2.74; $M_{\theta\phi}$5.37±.72. Principal Axes: T 14.4,Plg18°,Azm335°; N −2.0, Plg3°,Azm66°; P −12.3,Plg71°,Azm165°. Best double couple: M0 1.3×10^{17}Nm, NP1:ϕ_S60°, δ27°,λ−97°. NP2:ϕ_S248°,δ64°,λ−87°.						
EIDC		Error ellipse is semi−major=30.5km semi−minor=11.7km azimuth=86						
ISC	**XII**	**20 22 37 09.3**±.94	**12.3N**±.11	**141.5E**±.42	**34**±1.2*	**4.0b**	**8**	**33-91**
NEIC	XII	20 22 37 09.1	12.28N	141.49E	33	3.9b		¶97xii4179
EIDC	XII	20 22 37 11.5±.87	12.3N	141.5E	36±7.6	3.8b,3.0s		
NEIC		Poor solution.						
EIDC		Error ellipse is semi−major=55.3km semi−minor=15.5km azimuth=96						
ISC	**XII**	**24 00 56 22**±5.2	**11.99N**±.081	**143.4E**±.11	**103**±48	**4.3b**	**42**	**22-99**
BJI	XII	24 00 56 19.9	12.68N	144.12E	87	4.3b		¶97xii4679
NEIC	XII	24 00 56 21.8	12.00N	143.39E	100	4.3b		
EIDC	XII	24 00 56 28.3±7.24	12.0N	143.7E	154±70.5	4.0b,3.6s		
NEIC		Less reliable solution.						

EIDC Error ellipse is semi−major=29.8km semi−minor=15.7km azimuth=85
ISC XII 31 00 58 15±3.3 **12.0N**±.15 **143.3E**±.41 **60**±33 **3.8b** **9 2-92**
NEIC XII 31 00 58 12.1 12.05N 142.98E 33 3.7b ¶97xii5814
EIDC XII 31 00 58 26.8 11.9N 143.3E 156±172.0 3.4b
NEIC Less reliable solution.
EIDC Origin time error = 18.11Error ellipse is semi−major=63.0km semi−minor=32.8km azimuth=94

SEISMIC REGION 18.
GUAM TO JAPAN.

(211) South of Honshū.

ISC VII 01 06 42 45±2.4 **33.5N**±.18 **138.1E**±.13 **53** **30 1-3**
JMA VII 01 06 42 45.2±.2 33.52N±.02 138.11E±.01 53±3 3.1 ¶97vii0040
ISC VII 01 09 26 23±3.3 **30.0N**±.19 **139.3E**±.38 **432**±43 **14 3-8**
JMA VII 01 09 26 22.5±.3 30.14N±.03 139.60E±.08 449 ¶97vii0058
ISC VII 04 01 25 58.5±.91 **31.22N**±.043 **142.3E**±.11 **57**±13 **4.1b** **57 3-93**
NEIC VII 04 01 25 53.8 31.32N 140.91E 14 4.4b ¶97vii0477
EIDC VII 04 01 25 53.8 31.3N 141.0E 0 4.0b,3.3L
JMA VII 04 01 26 01.1±.4 31.34N±.03 141.85E±.03 44 4.0
NEIC Less reliable solution.
ISC VII 04 22 22 44±2.1 **31.5N**±.11 **138.4E**±.11 **436**±32 **26 2-7**
JMA VII 04 22 22 44.0±.2 31.47N±.02 138.39E±.02 441 ¶97vii0625
ISC VII 07 04 37 16.2±.75 **33.27N**±.064 **139.10E**±.056 **36**±32 **60 1-7**
JMA VII 07 04 37 15.7±.2 33.25N±.02 139.10E±.01 53 3.7 ¶97vii0992
ISC VII 07 07 43 41±1.5 **33.3N**±.13 **139.1E**±.12 **28** **12 1-3**
JMA VII 07 07 43 40.5±.2 33.32N±.02 139.06E±.01 28 3.0 ¶97vii1009
ISC VII 08 11 03 39.6±.22 **30.41N**±.024 **138.43E**±.027 **448**±2.1 **5.0b** **458 3-166**
BJI VII 08 11 03 37.1 30.30N 138.45E 435 5.6b ¶97vii1178
NEIC VII 08 11 03 37.6 30.40N 138.29E 428 5.0b
JMA VII 08 11 03 38.4±.1 30.37N±.01 138.73E±.01 454±2 5.5
EIDC VII 08 11 03 39.2 30.4N 138.5E 436 4.7b
MOS VII 08 11 03 39.3 30.5N 138.4E 449 5.1b
ISC VII 09 02 21 41±1.2 **29.2N**±.13 **139.5E**±.22 **437**±14 **3.2b** **10 3-96**
NEIC VII 09 02 21 41.4 29.26N 139.52E 438 ¶97vii1278
EIDC VII 09 02 21 42.7 29.3N 139.6E 434 2.9b
NEIC Single network solution.
ISC VII 09 08 11 43±3.0 **32.5N**±.23 **138.73E**±.096 **316**±20 **51 1-12**
JMA VII 09 08 11 45.9±.5 32.84N±.03 138.68E±.02 304±5 ¶97vii1300
ISC VII 11 06 17 43.5±.59 **32.58N**±.081 **138.5E**±.13 **320**±7.1 **2.9b** **35 1-95**
NEIC VII 11 06 17 42.7 32.60N 138.40E 311 ¶97vii1630
JMA VII 11 06 17 43.0±.2 32.56N±.03 138.54E±.04 328
EIDC VII 11 06 17 43.6 32.7N 138.5E 305 2.7b
NEIC Less reliable solution.
ISC VII 17 06 52 49±6.2 **33.3N**±.30 **140.9E**±.55 **51** **10 1-4**
JMA VII 17 06 52 51.1±.3 33.39N±.01 140.65E±.02 51 3.1 ¶97vii2559
ISC VII 17 19 14 58±1.1 **31.63N**±.078 **142.3E**±.21 **40** **17 3-8**
JMA VII 17 19 14 58.2±.3 31.60N±.02 141.98E±.04 40 3.4 ¶97vii2631
ISC VII 18 06 03 43±2.4 **33.0N**±.14 **141.0E**±.21 **60**±28 **3.5b** **27 1-57**
EIDC VII 18 06 03 38.1 32.8N 141.3E 0 3.4b,3.3L ¶97vii2703
JMA VII 18 06 03 46.5±.3 33.14N±.02 140.65E±.02 62
NEIC VII 18 06 03 47.0 33.03N 140.54E 100
NEIC Less reliable solution.
ISC VII 18 20 03 30.4±.77 **31.80N**±.046 **141.53E**±.069 **41**±9.3 **3.7b** **71 2-93**
JMA VII 18 20 03 30.2±.3 31.77N±.02 141.34E±.03 38 3.4 ¶97vii2782
NEIC VII 18 20 03 32.1 31.61N 141.23E 58
EIDC VII 18 20 03 33.2 31.6N 141.2E 49 3.4b,3.4L
NEIC Less reliable solution.
ISC VII 19 09 50 56±7.9 **32.5N**±.52 **138.4E**±.27 **356**±53 **21 1-7**
JMA VII 19 09 50 53.0±.3 32.34N±.02 138.54E±.06 377 ¶97vii2854
ISC VII 20 09 50 53.2±.62 **32.94N**±.071 **138.46E**±.063 **311**±5.5 **3.2b** **72 1-77**
JMA VII 20 09 50 51.7±.4 32.86N±.03 138.45E±.02 327±3 ¶97vii3062
NEIC VII 20 09 50 52.9 32.84N 138.41E 300
EIDC VII 20 09 50 54.1 32.9N 138.5E 298 3.0b
NEIC Less reliable solution.
ISC VII 20 22 21 15.4±.53 **32.26N**±.075 **137.74E**±.060 **406**±4.8 **3.2b** **105 2-95**
JMA VII 20 22 21 14.2±.2 32.24N±.03 137.75E±.02 424±2 ¶97vii3152
NEIC VII 20 22 21 15.3 32.21N 137.64E 400
EIDC VII 20 22 21 16.1 32.3N 137.8E 387 3.0b
NEIC Less reliable solution.
ISC VII 21 09 46 14±3.2 **33.4N**±.31 **138.6E**±.41 **327** **13 2-7**
JMA VII 21 09 46 14.0±.5 33.38N±.03 138.63E±.05 327±4 ¶97vii3223
ISC VII 22 10 05 01.0±.44 **30.46N**±.047 **138.89E**±.060 **426**±3.5 **3.9b** **127 3-152**
BJI VII 22 10 04 58.6 30.14N 138.83E 429 4.6b ¶97vii3358
NEIC VII 22 10 04 59.4 30.47N 138.76E 400 4.4b
EIDC VII 22 10 05 01.6 30.5N 138.8E 414 3.4b
JMA VII 22 10 05 01.9±.2 30.53N±.02 139.12E±.02 423±2
NEIC Less reliable solution.
ISC VII 22 14 15 58±1.3 **33.80N**±.044 **139.52E**±.040 **10**±7.5 **4.0b** **142 0-93**
EIDC VII 22 14 15 58.0 33.8N 139.5E 0 4.0b,3.6L ¶97vii3385
JMA VII 22 14 16 00.8±.1 33.94N±.01 139.47E±.01 22±2 3.8
NEIC VII 22 14 16 01.2 33.82N 139.39E 33 3.9b
BJI VII 22 14 16 05.4 33.94N 139.53E 35 4.4b
JMA Felt I=III J1
NEIC Less reliable solution.
JMA VII 22 20 08 29.1±.4 **33.93N**±.02 **139.41E**±.02 **16**±3 **2.8** ¶97vii3427
ISC VII 23 02 39 00±6.0 **33.3N**±.35 **139.5E**±.34 **203**±46 **16 0-6**
JMA VII 23 02 39 01.3±.2 33.37N±.02 139.49E±.05 199 ¶97vii3469
ISC VII 24 09 59 45.9±.45 **30.37N**±.036 **142.39E**±.081 **30** **4.1b,4.1s** **93 3-149**
BJI VII 24 09 59 45.6 30.21N 142.06E 30 4.3b,4.4s ¶97vii3658
JMA VII 24 09 59 46.2±.2 30.35N±.01 142.35E±.05 97
NEIC VII 24 09 59 47.1 30.22N 142.15E 32 4.3b
EIDC VII 24 09 59 48.6 30.2N 142.1E 30 4.0b,3.9s
MOS VII 24 09 59 48.7 30.4N 141.8E 33 4.8b
NEIC Less reliable solution.
ISC VII 24 11 15 01.0±.61 **32.32N**±.057 **142.71E**±.053 **84** **4.0b** **102 3-162**
EIDC VII 24 11 14 47.4 31.4N 142.9E 0 4.1b,4.0L ¶97vii3664
BJI VII 24 11 14 49.6 31.36N 142.84E 32
MOS VII 24 11 14 50.3 31.3N 142.8E 33 4.8b
NEIC VII 24 11 14 51.2 31.35N 142.77E 33 4.2b
JMA VII 24 11 14 55.0±.4 31.94N±.02 142.97E±.03 84
NEIC Less reliable solution.
ISC VII 25 04 53 25±8.6 **32.6N**±.60 **138.2E**±.27 **362**±49 **27 2-7**
JMA VII 25 04 53 25.3±.4 32.51N±.04 138.36E±.05 357 ¶97vii3771
ISC VII 25 13 42 09±1.2 **32.38N**±.088 **141.7E**±.12 **48** 3.3b **39 2-56**
EIDC VII 25 13 42 05.6 32.2N 141.7E 0 3.2b,3.1L ¶97vii3834
NEIC VII 25 13 42 08.1 32.28N 141.59E 33
JMA VII 25 13 42 13.7±.6 32.66N±.04 141.36E±.04 48 3.7
NEIC Less reliable solution.
ISC VII 28 08 11 58.8±.79 **31.87N**±.051 **140.82E**±.058 **67**±7.0 **4.0b** **101 1-149**
JMA VII 28 08 11 58.6±.3 31.88N±.02 140.88E±.02 72 ¶97vii4234
NEIC VII 28 08 11 59.2 31.77N 140.45E 71 4.4b
EIDC VII 28 08 12 00.5 31.8N 140.5E 67 3.8b
ISC VII 28 17 33 45±1.2 **31.94N**±.094 **140.8E**±.36 **100** **3.7b** **10 1-63**
EIDC VII 28 17 33 39.9 31.8N 133.5E 0 3.6b,3.5L ¶97vii4309
JMA VII 28 17 33 47.5±.4 32.24N±.02 140.88E±.02 20 3.6
ISC VII 28 19 16 25±1.5 **29.8N**±.18 **139.2E**±.26 **381**±27 **3.2b** **16 6-61**
NEIC VII 28 19 16 23.5 29.57N 139.01E 350 ¶97vii4320
EIDC VII 28 19 16 26.1 29.8N 139.3E 375 3.0b
NEIC Poor solution.
ISC VII 29 01 56 34.1±.72 **33.28N**±.045 **140.77E**±.051 **56**±5.9 **4.3b** **163 1-154**
MOS VII 29 01 56 34.7 33.2N 140.3E 57 4.6b ¶97vii4364
NEIC VII 29 01 56 35.0 33.23N 140.57E 58 4.4b
EIDC VII 29 01 56 36.4 33.3N 140.8E 57 3.9b
JMA VII 29 01 56 36.7±.2 33.41N±.01 140.55E±.02 52±4 4.1
JMA Felt I=II J1
ISC VII 29 21 05 30.9±.42 **32.09N**±.050 **138.16E**±.053 **374**±4.4 **3.4b** **89 2-78**
JMA VII 29 21 05 30.1±.2 32.08N±.02 138.13E±.02 389±3 ¶97vii4481
NEIC VII 29 21 05 30.4 32.07N 138.13E 367
EIDC VII 29 21 05 30.4 32.0N 138.0E 348 3.1b
ISC VIII 02 01 21 57.8±.48 **32.76N**±.053 **139.25E**±.055 **224**±3.9 **3.6b** **79 1-86**
JMA VIII 02 01 21 58.0±.4 32.82N±.03 139.19E±.02 236±4 ¶97viii0145
EIDC VIII 02 01 21 59.1 32.8N 139.3E 217 3.4b
NEIC VIII 02 01 22 00.4 32.85N 139.20E 250 3.9b
NEIC Less reliable solution.
JMA VIII 03 09 03 05.2±.4 **32.37N**±.03 **140.92E**±.02 **12** **3.4** ¶97viii0344
ISC VIII 03 12 50 08.0±.81 **33.90N**±.047 **139.43E**±.044 **17**±7.6 3.6b **58 0-67**
JMA VIII 03 12 50 08.8±.1 33.95N±.01 139.44E±.01 18±2 3.2 ¶97viii0363
JMA Felt I=II J1
ISC VIII 03 21 20 52±3.6 **33.1N**±.13 **138.1E**±.39 **347**±48 **20 2-7**
JMA VIII 03 21 20 55.1±.4 33.27N±.06 138.06E±.07 333 ¶97viii0413
ISC VIII 05 18 31 36.8±.68 **29.49N**±.083 **139.7E**±.20 **422**±9.4 **3.1b** **31 3-81**
NEIC VIII 05 18 31 36.4 29.47N 139.53E 411 3.6b ¶97viii0698
EIDC VIII 05 18 31 37.4 29.5N 139.7E 403 2.7b
JMA VIII 05 18 31 38.5±.5 29.81N±.05 140.02E±.08 458
NEIC Less reliable solution.
JMA VIII 06 09 15 48.0±.4 **32.15N**±.03 **140.82E**±.03 **38** **3.1** ¶97viii0779
JMA VIII 07 10 30 00.2±.3 **31.17N**±.02 **142.70E**±.04 **72** ¶97viii0927
JMA VIII 09 00 40 29.5±.5 **32.40N**±.03 **140.81E**±.03 **4** **3.2** ¶97viii1185
EIDC VIII 09 00 40 19.9 31.4N 141.3E 0 3.6b,3.6L
ISC VIII 09 08 00 34.8±.51 **31.77N**±.054 **142.03E**±.068 **63** **4.4b** **113 2-149**
BJI VIII 09 08 00 25.8 31.07N 141.78E 33 4.5b,4.2s ¶97viii1218
NEIC VIII 09 08 00 28.0 31.03N 141.61E 33 4.6b
JMA VIII 09 08 00 29.1±.4 31.55N±.03 142.67E±.04 63
EIDC VIII 09 08 00 29.6 31.1N 141.8E 36 4.0b,3.6L
ISC VIII 09 22 03 15.1±.95 **31.81N**±.066 **141.0E**±.13 **67**±9.8 **3.6b** **36 2-125**
NEIC VIII 09 22 03 15.3 31.81N 140.86E 71 ¶97viii1312
EIDC VIII 09 22 03 16.9 31.9N 141.2E 60 3.5b
JMA VIII 09 22 03 19.1±.4 32.38N±.03 140.84E±.02 2 3.2
NEIC Less reliable solution.
ISC VIII 10 17 48 19±4.0 **32.9N**±.53 **137.6E**±.34 **373** **6 2-4**
JMA VIII 10 17 48 19.1±.4 33.02N±.07 137.53E±.04 373 ¶97viii1431
ISC VIII 13 21 24 39±2.1 **32.5N**±.20 **139.3E**±.42 **33** **4.0b** **6 4-94**
EIDC VIII 13 21 24 34.6 32.4N 139.1E 0 3.7b,3.1L ¶97viii1961
ISC VIII 14 05 31 08±1.6 **30.5N**±.11 **139.8E**±.18 **299**±21 **39 3-10**
JMA VIII 14 05 31 08.9±.3 30.64N±.02 139.99E±.04 292±5 ¶97viii2013
ISC VIII 14 06 37 19.1±.44 **29.86N**±.050 **139.31E**±.072 **432**±6.7 **3.7b** **74 3-151**
NEIC VIII 14 06 37 17.5 29.78N 138.90E 400 4.0b ¶97viii2017
EIDC VIII 14 06 37 18.8 29.8N 138.8E 398 3.2b
JMA VIII 14 06 37 19.9±.3 29.94N±.02 139.40E±.02 430±5
NEIC Less reliable solution.
ISC VIII 16 04 22 28.5±.58 **30.36N**±.065 **138.86E**±.097 **431**±7.0 **3.3b** **60 4-84**
NEIC VIII 16 04 22 28.2 30.35N 138.69E 423 3.2b ¶97viii2314
EIDC VIII 16 04 22 28.9 30.4N 138.9E 419 3.1b
JMA VIII 16 04 22 30.5±.5 30.60N±.05 139.06E±.04 441
NEIC Less reliable solution.
JMA VIII 17 05 49 07.7±.8 **31.82N**±.06 **141.17E**±.05 **15** **2.9** ¶97viii2492
ISC VIII 18 10 11 37.3±.93 **30.5N**±.17 **138.9E**±.37 **471**±22 2.5b **26 3-54**
EIDC VIII 18 10 11 09.9 28.2N 139.5E 0 3.1b,4.1L ¶97viii2660
JMA VIII 18 10 11 37.3±.3 30.66N±.03 139.12E±.06 491
ISC VIII 18 10 14 18±2.4 **32.7N**±.28 **138.1E**±.25 **446**±12 3.6b **22 2-69**
JMA VIII 18 10 14 18.5±.3 32.73N±.04 138.10E±.05 440 ¶97viii2661
ISC VIII 19 14 21 30±2.2 **32.8N**±.28 **137.8E**±.29 **416** **11 2-4**
JMA VIII 19 14 21 30.1±.2 32.83N±.03 137.73E±.04 416 ¶97viii2818
ISC VIII 20 14 32 45±3.9 **33.1N**±.27 **139.4E**±.29 **31** **6 0-2**
JMA VIII 20 14 32 45.1±.4 33.21N±.03 139.50E±.03 31±4 2.9 ¶97viii2972
ISC VIII 20 14 54 55±1.1 **33.30N**±.085 **139.53E**±.090 **18**±15 **17 0-3**
JMA VIII 20 14 54 55.4±.1 33.29N±.02 139.59E±.01 30±3 2.9 ¶97viii2979
ISC VIII 20 16 40 12±1.3 **33.23N**±.087 **139.48E**±.080 **17**±15 **21 0-3**
JMA VIII 20 16 40 11.7±.3 33.17N±.03 139.51E±.02 35 2.8 ¶97viii2990
ISC VIII 20 16 52 45±1.3 **33.3N**±.11 **139.5E**±.13 **20**±16 **9 0-2**
JMA VIII 20 16 52 44.9±.2 33.22N±.02 139.54E±.02 36±3 3.0 ¶97viii2991
ISC VIII 21 19 52 50±5.6 **33.4N**±.33 **138.8E**±.28 **301**±38 **24 1-7**
JMA VIII 21 19 52 46.3±.4 33.18N±.02 138.67E±.04 329±4 ¶97viii3135
ISC VIII 22 11 44 18.2±.46 **30.71N**±.052 **138.88E**±.064 **392**±5.4 **3.6b** **75 3-96**
JMA VIII 22 11 44 17.9±.2 30.72N±.02 138.98E±.02 399 ¶97viii3216
NEIC VIII 22 11 44 18.1 30.69N 138.66E 387
EIDC VIII 22 11 44 18.4 30.7N 138.7E 371 3.5b
ISC VIII 26 14 03 36±4.0 **32.4N**±.41 **138.4E**±.37 **396** **21 3-7**
JMA VIII 26 14 03 36.2±.3 32.42N±.04 138.39E±.06 396 ¶97viii3858
EIDC VIII 27 03 55 39.7 **29.2N** **139.1E** **0** **3.8b** **49-75**
¶97viii3937
ISC VIII 27 21 21 50±2.5 **32.4N**±.28 **138.2E**±.28 **387** **10 2-5**
JMA VIII 27 21 21 50.5±.3 32.48N±.03 138.22E±.05 387 ¶97viii4040
ISC VIII 28 14 20 03.8±.45 **29.50N**±.033 **142.6E**±.11 **45**±2.2* **4.2b**,4.0s **80 2-151**
BJI VIII 28 14 20 03.3 28.85N 141.66E 57 4.6b ¶97viii4143
NEIC VIII 28 14 20 05.5 29.32N 141.91E 43 4.4b
MOS VIII 28 14 20 07.9 29.8N 142.2E 40 5.1b
EIDC VIII 28 14 20 08.1 29.4N 142.0E 45 3.9b,4.0s
JMA VIII 28 14 20 08.7±.3 29.81N±.02 142.63E±.05 112
JMA VIII 29 00 13 45.4±.5 **32.36N**±.04 **138.09E**±.08 **411** ¶97viii4206
ISC VIII 29 02 59 09±6.3 **33.6N**±.42 **138.6E**±.17 **304**±42 **24 1-6**
JMA VIII 29 02 59 13.5±.4 33.93N±.03 138.69E±.03 278±3 ¶97viii4226
ISC VIII 31 18 20 33±2.4 **32.8N**±.21 **138.0E**±.13 **357**±16 **65 1-8**
JMA VIII 31 18 20 34.6±.4 32.92N±.03 137.96E±.02 352±3 ¶97viii4690
ISC IX 01 00 48 22±1.2 **29.2N**±.19 **137.7E**±.71 **0** **3.7b** **5 49-153**
EIDC IX 01 00 48 24.2 29.2N 137.4E 0 3.6b ¶97ix0013
ISC Poorly determined
EIDC LO CONF Depth

Agency	mo	d	Origin Time h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**IX**	**02**	**16**	**06**	**43.7**±.35	**29.74N**±.033	**142.36E**±.079	**41**±1.6*	**4.4b**,4.1s	**106**	**3-151**
NEIC	IX	02	16	06	44.4	29.57N	142.12E	41	4.5b		¶97ix0297
BJI	IX	02	16	06	44.7	29.60N	142.36E	67	4.1b,4.3s		
EIDC	IX	02	16	06	46.4	29.6N	142.1E	40	4.0b,2.7L		
JMA	IX	02	16	06	47.3±.4	30.01N±.02	142.52E±.04	114			
ISC	**IX**	**04**	**12**	**03**	**12**±6.1	**32.8N**±.39	**138.7E**±.21	**312**±42		**25**	**1-7**
JMA	IX	04	12	03	13.1±.3	32.89N±.02	138.85E±.05	316±3			¶97ix0581
ISC	**IX**	**04**	**19**	**33**	**55.1**±.53	**30.29N**±.062	**138.8E**±.15	**442**±6.7	**3.3b**	**60**	**3-84**
NEIC	IX	04	19	33	54.5	30.24N	138.51E	429	3.2b		¶97ix0627
EIDC	IX	04	19	33	54.8	30.3N	138.6E	416	3.1b		
JMA	IX	04	19	33	55.6±.4	30.48N±.04	139.06E±.06	472			
NEIC	Less reliable solution.										
ISC	**IX**	**06**	**05**	**11**	**02**±1.1	**32.84N**±.078	**139.38E**±.095	**224**±12		**45**	**0-7**
JMA	IX	06	05	11	04.8±.6	33.02N±.04	139.35E±.02	210±5			¶97ix0859
ISC	**IX**	**09**	**01**	**16**	**34.5**±.50	**29.95N**±.053	**139.3E**±.14	**396**±5.5	**3.5b**	**55**	**3-84**
EIDC	IX	09	01	16	33.2	30.0N	139.0E	363	3.4b		¶97ix1306
NEIC	IX	09	01	16	33.8	29.96N	139.10E	388	3.7b		
JMA	IX	09	01	16	34.8±.2	30.09N±.02	139.66E±.05	414			
NEIC	Less reliable solution.										
ISC	**IX**	**11**	**00**	**27**	**42.4**±.72	**30.11N**±.047	**143.0E**±.15	**10**	**4.0b**,3.9s	**55**	**3-93**
NEIC	IX	11	00	27	45.6	29.79N	141.80E	10			¶97ix1600
BJI	IX	11	00	27	45.7	29.95N	142.08E	20	4.3b		
EIDC	IX	11	00	27	53.1	29.7N	141.6E	42	3.8b,3.8s		
NEIC	Less reliable solution.										
ISC	**IX**	**14**	**00**	**57**	**11**±1.3	**29.1N**±.11	**140.1E**±.22	**408**±12	**3.6b**	**16**	**4-151**
EIDC	IX	14	00	57	11.1	29.1N	140.1E	389	3.4b		¶97ix2055
NEIC	IX	14	00	57	11.6	29.14N	140.07E	418	3.9b		
NEIC	Less reliable solution.										
ISC	**IX**	**14**	**11**	**39**	**50**±1.9	**33.2N**±.25	**138.1E**±.26	**345**		**8**	**1-4**
JMA	IX	14	11	39	50.6±.2	33.24N±.03	138.06E±.03	345			¶97ix2116
ISC	**IX**	**15**	**20**	**28**	**15.9**±.97	**29.92N**±.077	**141.8E**±.20	**114**		**31**	**3-14**
JMA	IX	15	20	28	15.1±.2	30.01N±.01	142.31E±.06	114			¶97ix2280
ISC	**IX**	**18**	**01**	**15**	**21**±4.1	**31.28N**±.065	**140.03E**±.094	**5**±25	**4.4b**,4.2s	**32**	**2-150**
BJI	IX	18	01	15	15.1	31.14N	140.84E	10	4.7b,4.2s		¶97ix2592
NEIC	IX	18	01	15	22.0	31.29N	139.99E	10	4.8b		
EIDC	IX	18	01	15	22.2	31.3N	140.1E	0	4.3b,3.6L		
ISC	**IX**	**20**	**06**	**13**	**11**±7.8	**33.7N**±.60	**139.4E**±.86	**218**		**5**	**1-4**
JMA	IX	20	06	13	10.1±.4	33.71N±.03	139.31E±.05	218			¶97ix2909
ISC	**IX**	**20**	**16**	**24**	**45.6**±.95	**32.77N**±.081	**137.35E**±.048	**54**		**52**	**1-5**
JMA	IX	20	16	24	46.3±.1	32.87N±.01	137.32E±.00	54±3	4.1		¶97ix2966
ISC	**IX**	**22**	**10**	**17**	**24**±3.9	**32.9N**±.27	**140.3E**±.13	**149**±23		**35**	**0-7**
JMA	IX	22	10	17	31.1±.3	33.30N±.02	140.06E±.02	98±3			¶97ix3263
EIDC	**IX**	**26**	**08**	**01**	**01.3**	**30.7N**	**139.4E**	**0**	**3.9b**		¶97ix3918
ISC	**IX**	**27**	**21**	**16**	**59**±3.0	**34.0N**±.11	**140.4E**±.19	**66**±44		**12**	**1-2**
JMA	IX	27	21	16	59.0±.3	34.02N±.02	140.30E±.03	64			¶97ix4457
ISC	**IX**	**29**	**17**	**13**	**24**±2.9	**32.3N**±.29	**139.4E**±.24	**251**		**8**	**1-4**
JMA	IX	29	17	13	24.1±.3	32.34N±.03	139.44E±.05	251			¶97ix4988
ISC	**IX**	**30**	**06**	**27**	**24**±1.3	**31.98N**±.023	**141.99E**±.031	**5**±7.6	**5.4b,6.3s**	**530**	**2-168**
BJI	IX	30	06	27	22.6	31.87N	141.71E	6	5.3b,6.3s		¶97ix5144
JMA	IX	30	06	27	24.4±.3	31.98N±.02	142.45E±.03	52	6.1		
EIDC	IX	30	06	27	24.6	31.9N	142.0E	0	4.9b,6.4s		
NEIC	IX	30	06	27	24.7	31.96N	141.88E	10	5.5b,6.5s		
MOS	IX	30	06	27	28.5	32.1N	141.8E	33	5.9b,6.3s		
HRVD	IX	30	06	27	33.9±.1	31.83N±.01	142.06E±.01	15			
NEIC	Ms6.5(BRK), Mw6.2(GS).										
NEIC	Mw 6.2 (HRV). Me 5.8 (GS).										
NEIC	Radiated energy from the USGS moment tensor solution: 1.2±0.2×10^{13}Nm/17										
NEIC	Moment tensor solution: s51, scale 10^{18}Nm; M_{rr}0.10; $M_{\theta\theta}$−0.14; $M_{\phi\phi}$0.04; $M_{r\theta}$0.24; $M_{r\phi}$1.73; $M_{\theta\phi}$−0.66. Depth 19km; Principal axes: T 1.85,Plg43°,Azm258°; N 0.04,Plg20°,Azm8°; P −1.89,Plg40°,Azm117°. Best double couple: $M_0$1.9×10^{18}Nm; NP1:ϕ_S273°,δ21°,λ175°. NP2: ϕ_S8°,δ88°,λ69°.										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s51,c115; Mantle waves: s40,c64; Half duration: 3s1. Moment tensor: Scale 10^{18}Nm; M_{rr}1.45±.01; $M_{\theta\theta}$0.08±.01; $M_{\phi\phi}$−1.53±.01; $M_{r\theta}$−0.01±.04; $M_{r\phi}$1.46±.04; $M_{\theta\phi}$0.14±.01. Principal Axes: T 2.05,Plg68°,Azm273°; N 0.09,Plg2°,Azm177°; P −2.13,Plg22°,Azm86°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S172°,δ23°,λ84°. NP2:ϕ_S358°,δ67°,λ93°.										
ISC	**IX**	**30**	**06**	**37**	**36.2**±.37	**31.80N**±.069	**141.84E**±.089	**10**	**4.5b**	**48**	**2-97**
BJI	IX	30	06	37	35.0	31.93N	141.91E	9	4.1b		¶97ix5149
EIDC	IX	30	06	37	35.8	31.8N	141.9E	0	4.2b		
NEIC	IX	30	06	37	35.9	31.83N	141.87E	10	4.9b		
ISC	**IX**	**30**	**07**	**25**	**12.7**±.70	**33.40N**±.048	**140.64E**±.057	**80**±6.7	**4.2b**	**111**	**1-93**
NEIC	IX	30	07	25	11.2	33.36N	140.80E	62	4.4b		¶97ix5159
EIDC	IX	30	07	25	13.4	33.4N	140.6E	63	3.9b		
JMA	IX	30	07	25	15.2±.1	33.49N±.01	140.41E±.01	68±3	4.1		
NEIC	Less reliable solution.										
ISC	**IX**	**30**	**08**	**02**	**35**±1.5	**31.97N**±.097	**142.2E**±.22	**23**	3.7b	**19**	**2-52**
JMA	IX	30	08	02	36.8±.7	32.15N±.05	142.04E±.05	23	3.5		¶97ix5167
ISC	**IX**	**30**	**10**	**55**	**53.2**±.70	**31.95N**±.051	**142.2E**±.14	**10**	**3.7b**	**33**	**2-93**
EIDC	IX	30	10	55	55.1	31.8N	141.6E	0	3.7b		¶97ix5208
NEIC	IX	30	10	55	55.2	31.74N	141.34E	10	3.8b		
JMA	IX	30	10	55	56.0±.3	32.01N±.02	142.28E±.05	63			
NEIC	Less reliable solution.										
ISC	**IX**	**30**	**11**	**10**	**14.6**±.99	**29.52N**±.069	**141.3E**±.19	**46**±11	**3.8b**	**40**	**3-152**
NEIC	IX	30	11	10	13.1	29.46N	141.23E	33			¶97ix5212
EIDC	IX	30	11	10	16.7	29.5N	141.3E	46	3.5b		
NEIC	Less reliable solution.										
JMA	**IX**	**30**	**11**	**23**	**13.5**±.5	**31.77N**±.04	**140.10E**±.08	**231**			¶97ix5216
ISC	**IX**	**30**	**12**	**39**	**13.3**±.52	**31.94N**±.049	**141.9E**±.10	**30**	**4.0b**	**40**	**2-93**
NEIC	IX	30	12	39	10.7	31.78N	141.73E	10	4.0b		¶97ix5228
JMA	IX	30	12	39	10.9±.3	31.94N±.02	142.10E±.03	30	3.3		
EIDC	IX	30	12	39	11.0	31.8N	141.8E	0	4.0b		
NEIC	Less reliable solution.										
ISC	**IX**	**30**	**20**	**22**	**23**±1.2	**31.79N**±.032	**141.65E**±.044	**18**±8.4	**4.9b,4.9s**	**223**	**2-162**
BJI	IX	30	20	22	20.7	31.75N	141.80E	23	5.0b,5.1s		¶97ix5306
NEIC	IX	30	20	22	21.2	31.81N	141.60E	10	5.0b,4.8s		
JMA	IX	30	20	22	22.1±.3	31.89N±.02	142.02E±.03	37	5.3		
MOS	IX	30	20	22	25.2	31.8N	141.5E	33	5.5b,4.9s		
EIDC	IX	30	20	22	25.7	31.8N	141.6E	31	4.4b,4.7s		
HRVD	IX	30	20	22	26.5±.4	31.74N±.06	141.90E±.06	15			
NEIC	Mw5.3(HRV).										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c44; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}8.46±.34; $M_{\theta\theta}$0.12±.47; $M_{\phi\phi}$−8.58±.49; $M_{r\theta}$−1.11±1.33; $M_{r\phi}$4.28±1.97; $M_{\theta\phi}$0.90±.37. Principal Axes: T 9.55,Plg76°,Azm247°; N 0.17,Plg4°,Azm352°; P −9.72,Plg13°,Azm83°. Best double couple: $M_0$9.6×10^{16}Nm, NP1: ϕ_S178°,δ32°,λ97°. NP2:ϕ_S350°,δ58°,λ86°.										
ISC	**IX**	**30**	**20**	**25**	**15**±2.9	**31.5N**±.48	**141.3E**±.45	**10**	**4.2b**	**7**	**6-84**
NEIC	IX	30	20	25	15.3	31.74N	141.69E	10	4.2b		¶97ix5307
EIDC	IX	30	20	25	26.2	32.2N	141.7E	67	3.8b,4.1L		
NEIC	Poor solution.										
ISC	**IX**	**30**	**21**	**30**	**56**±4.0	**33.4N**±.40	**139.4E**±.27	**205**		**7**	**2-3**
JMA	IX	30	21	30	56.7±.3	33.43N±.02	139.42E±.02	205±4			¶97ix5316
JMA	**X**	**01**	**04**	**25**	**40.8**±.4	**32.63N**±.05	**138.50E**±.06	**380**			¶97x0024
ISC	**X**	**01**	**16**	**44**	**03**±4.6	**32.05N**±.092	**142.1E**±.26	**21**±42	3.5b	**9**	**2-56**
JMA	X	01	16	44	04.1±.3	32.05N±.02	142.03E±.05	44	3.0		¶97x0123
EIDC	X	01	16	44	04.4	31.8N	141.4E	0	3.5b,3.2L		
ISC	**X**	**02**	**13**	**30**	**21**±11	**32.9N**±.57	**142.5E**±.83	**76**		**10**	**2-6**
JMA	X	02	13	30	26.0±.6	33.11N±.03	142.11E±.05	76	3.0		¶97x0292
ISC	**X**	**02**	**21**	**14**	**49**±4.1	**31.94N**±.059	**141.9E**±.13	**13**±25	**4.2b**,4.1s	**36**	**2-93**
BJI	X	02	21	14	47.6	31.82N	142.16E	34	4.5b,4.4s		¶97x0347
NEIC	X	02	21	14	48.2	31.98N	141.86E	10	4.5b		
EIDC	X	02	21	14	48.5	32.0N	141.9E	0	4.0b,4.3L		
JMA	X	02	21	14	48.7±.3	32.00N±.02	142.01E±.04	24	3.8		
ISC	**X**	**03**	**05**	**22**	**41**±1.1	**32.1N**±.13	**141.8E**±.35	**46**±4.2*	**3.6b**	**5**	**5-56**
EIDC	X	03	05	22	45.4	31.6N	142.9E	47	3.3b		¶97x0400
ISC	**X**	**03**	**10**	**17**	**23**±1.3	**31.8N**±.16	**141.8E**±.25	**33**	**3.6b**	**6**	**2-54**
EIDC	X	03	10	17	25.8	31.8N	141.7E	34	3.4b,3.6L		¶97x0447
ISC	**X**	**03**	**15**	**19**	**08**±3.3	**31.97N**±.069	**142.0E**±.15	**17**±27	**3.9b**	**18**	**2-56**
JMA	X	03	15	19	09.9±.3	32.03N±.02	142.14E±.04	55	3.5		¶97x0486
NEIC	X	03	15	19	11.6	31.87N	141.61E	33			
EIDC	X	03	15	19	13.6	31.9N	141.7E	37	3.7b,3.7L		
NEIC	Less reliable solution.										
ISC	**X**	**04**	**12**	**28**	**50**±1.0	**31.8N**±.11	**141.7E**±.32	**35**±4.2*	**3.6b**	**6**	**6-56**
NEIC	X	04	12	28	50.1	31.77N	141.75E	33	3.6b		¶97x0641
EIDC	X	04	12	28	52.5	31.8N	141.9E	35	3.3b,3.8L		
NEIC	Less reliable solution.										
ISC	Unregistered station CJC at 27.1N 14.2E reports reading at 12:29:59.9, which confirms this event										
ISC	**X**	**04**	**23**	**03**	**16**±1.0	**32.0N**±.12	**141.8E**±.30	**33**	**3.8b**	**7**	**5-73**
EIDC	X	04	23	03	13.7	32.0N	141.9E	0	3.8b,3.8L		¶97x0755
NEIC	X	04	23	03	16.4	31.98N	141.86E	33			
NEIC	Less reliable solution.										
JMA	**X**	**05**	**01**	**19**	**44.4**±.3	**33.92N**±.04	**138.05E**±.05	**347**			¶97x0776
ISC	**X**	**05**	**05**	**14**	**14.8**±.82	**33.10N**±.093	**140.0E**±.20	**133**±9.6	3.1b	**15**	**0-57**
EIDC	X	05	05	14	00.0	33.1N	142.0E	0	3.5L,3.3b		¶97x0805
JMA	X	05	05	14	17.2±.2	33.22N±.01	139.97E±.02	114±2			
ISC	**X**	**05**	**06**	**44**	**53**±1.1	**30.75N**±.097	**142.6E**±.38	**33**	**3.7b**	**15**	**4-62**
EIDC	X	05	06	44	51.2	30.6N	142.3E	0	3.7b,4.0L		¶97x0819
ISC	**X**	**06**	**14**	**00**	**02**±4.6	**32.3N**±.12	**138.2E**±.49	**392**±64		**19**	**2-6**
JMA	X	06	14	00	03.3±.3	32.35N±.03	138.34E±.06	381			¶97x1058
ISC	**X**	**07**	**07**	**43**	**56**±1.3	**32.1N**±.17	**141.2E**±.29	**33**	**3.9b**	**4**	**2-56**
EIDC	X	07	07	43	53.8	32.1N	141.2E	0	3.8b,4.3L		¶97x1204
ISC	Poorly determined										
JMA	**X**	**10**	**04**	**41**	**15.2**±.2	**33.21N**±.01	**140.62E**±.02	**55**	**3.3**		¶97x1691
ISC	**X**	**12**	**07**	**43**	**24.1**±.99	**31.95N**±.053	**141.75E**±.090	**35**±8.3	**4.5b,4.1s**	**56**	**2-93**
BJI	X	12	07	43	21.9	31.67N	142.20E	57	4.3b,4.3s		¶97x2006
JMA	X	12	07	43	22.8±.3	32.04N±.02	141.98E±.03	44	3.9		
NEIC	X	12	07	43	23.9	31.97N	141.65E	33	4.7b		
EIDC	X	12	07	43	26.3	32.0N	141.6E	35	4.2b,3.8s		
ISC	**X**	**12**	**08**	**12**	**45**±3.7	**32.01N**±.074	**141.9E**±.18	**16**±30	**4.1b**	**17**	**2-64**
EIDC	X	12	08	12	45.3	32.0N	141.8E	0	4.0b,4.0L		¶97x2011
JMA	X	12	08	12	46.5±.3	32.04N±.02	141.95E±.04	42	3.5		
NEIC	X	12	08	12	47.9	31.97N	141.74E	33			
NEIC	Less reliable solution.										
ISC	**X**	**12**	**21**	**42**	**00**±4.0	**32.9N**±.35	**138.1E**±.83	**405**		**8**	**1-5**
JMA	X	12	21	41	59.8±.4	32.83N±.03	137.99E±.04	405±3			¶97x2111
ISC	**X**	**12**	**23**	**49**	**23**±1.8	**31.8N**±.10	**139.5E**±.16	**296**±26		**21**	**1-6**
JMA	X	12	23	49	23.9±.2	31.78N±.01	139.62E±.03	282±3			¶97x2129
ISC	**X**	**13**	**03**	**24**	**11.6**±.71	**30.2N**±.11	**139.5E**±.35	**408**±12	**3.6b**	**17**	**3-74**
JMA	X	13	03	24	11.9±.2	30.36N±.03	139.75E±.07	414			¶97x2152
EIDC	X	13	03	24	13.0	30.2N	139.6E	405	3.2b		
JMA	**X**	**13**	**11**	**00**	**15.4**±.3	**33.85N**±.04	**138.73E**±.05	**288**			¶97x2204
ISC	**X**	**13**	**17**	**39**	**11**±1.2	**32.10N**±.069	**141.9E**±.16	**35**±13	**4.0b**	**22**	**2-73**
EIDC	X	13	17	39	07.7	32.1N	141.9E	0	3.9b,4.3L		¶97x2258
JMA	X	13	17	39	09.0±.3	32.13N±.02	142.08E±.03	39	3.7		
NEIC	X	13	17	39	10.6	32.13N	141.82E	33	4.2b		
NEIC	Less reliable solution.										
ISC	**X**	**13**	**18**	**23**	**30**±10	**33.6N**±.95	**139.4E**±.62	**226**		**7**	**2-4**
JMA	X	13	18	23	24.4±.6	33.07N±.05	139.65E±.07	226			¶97x2263
ISC	**X**	**14**	**14**	**21**	**25**±7.5	**33.8N**±.80	**138.9E**±.69	**244**		**8**	**1-4**
JMA	X	14	14	21	23.4±.3	33.66N±.04	138.84E±.05	244			¶97x2422
ISC	**X**	**16**	**12**	**40**	**39.4**±.41	**30.40N**±.051	**138.81E**±.073	**413**±4.6	**4.0b**	**65**	**3-154**
BJI	X	16	12	40	38.8	30.32N	138.55E	400	4.3b		¶97x2838
JMA	X	16	12	40	39.0±.2	30.47N±.03	139.14E±.03	425			
EIDC	X	16	12	40	39.5	30.4N	138.8E	394	3.5b		
NEIC	X	16	12	40	39.7	30.41N	138.67E	412	4.3b		
ISC	**X**	**17**	**04**	**21**	**32**±1.0	**31.7N**±.15	**141.5E**±.24	**33**	**3.8b**	**5**	**2-93**
EIDC	X	17	04	21	28.9	31.7N	141.6E	0	3.8b,4.1L		¶97x2927
ISC	**X**	**17**	**21**	**39**	**35**±2.0	**33.1N**±.21	**139.4E**±.38	**198**		**7**	**0-4**
JMA	X	17	21	39	34.8±.2	33.05N±.03	139.49E±.06	198			¶97x3063
JMA	**X**	**19**	**04**	**39**	**51.3**±.3	**33.32N**±.02	**140.41E**±.02	**68**±4	**2.8**		¶97x3288
ISC	**X**	**19**	**05**	**52**	**24.7**±.76	**29.24N**±.083	**139.4E**±.11	**421**±6.8	**3.6b**	**35**	**3-96**
BJI	X	19	05	52	20.1	29.08N	139.83E	415	4.0b		¶97x3299
NEIC	X	19	05	52	24.3	29.27N	139.43E	415	3.7b		
JMA	X	19	05	52	25.6±.2	29.42N±.03	140.16E±.07	432			
EIDC	X	19	05	52	25.6	29.3N	139.6E	416	3.3b		
NEIC	Less reliable solution.										
JMA	**X**	**19**	**23**	**45**	**16.7**±.7	**32.52N**±.04	**142.57E**±.06	**44**	**3.2**		¶97x3405
ISC	**X**	**20**	**13**	**58**	**29**±1.7	**32.0N**±.25	**138.1E**±.30	**416**±18		**13**	**2-58**
JMA	X	20	13	58	31.1±.3	32.18N±.03	138.28E±.05	401±4			¶97x3512
ISC	**X**	**20**	**17**	**11**	**43**±2.0	**31.71N**±.047	**141.60E**±.095	**19**±14	**4.5b**,4.2s	**65**	**2-149**
EIDC	X	20	17	11	42.1	31.8N	141.6E	0	4.3b,4.6L		¶97x3531
JMA	X	20	17	11	43.0±.3	31.87N±.02	142.05E±.04	50	3.9		
MOS	X	20	17	11	45.2	31.8N	141.6E	33	5.1b		
BJI	X	20	17	11	45.2	31.70N	141.50E	33	5.2b,4.2s		
NEIC	X	20	17	11	45.2	31.72N	141.51E	33	4.9b		
JMA	**X**	**20**	**18**	**13**	**28.3**±.2	**33.72N**±.00	**140.32E**±.04	**45**	**2.8**		¶97x3538
ISC	**X**	**21**	**17**	**13**	**10**±8.1	**32.9N**±.43	**143.0E**±.53	**64**		**13**	**2-6**
JMA	X	21	17	13	16.3±.5	33.11N±.03	142.46E±.05	64	3.2		¶97x3683
ISC	**X**	**21**	**20**	**10**	**47.3**±.64	**33.70N**±.097	**138.8E**±.12	**270**±7.1	**3.4b**	**23**	**1-71**
EIDC	X	21	20	10	26.1	33.0N	134.2E	0	3.9b,3.7L		¶97x3696
JMA	X	21	20	10	48.4±.3	33.76N±.02	138.85E±.02	262±3			
ISC	**X**	**23**	**06**	**41**	**54**±2.3	**31.3N**±.14	**140.7E**±.29	**96**±22	**3.8b**	**17**	**2-94**
NEIC	X	23	06	41	53.4	31.30N	140.64E	93			¶97x3939
JMA	X	23	06	41	54.4±.4	31.48N±.03	140.95E±.04	22	3.6		
EIDC	X	23	06	41	56.3	31.3N	140.3E	98	3.4b		
NEIC	Poor solution.										
ISC	**X**	**23**	**19**	**54**	**02**±2.0	**32.9N**±.23	**138.4E**±.25	**336**		**11**	**1-5**
JMA	X	23	19	54	04.1±.3	33.09N±.04	138.82E±.08	336			¶97x4053

ISC	**X**	**25 13 14 34.5**±.59	**31.85N**±.067	**141.1E**±.16	**80**	**3.9b**	**21**	**2-94**	
NEIC	X	25 13 14 30.3	31.61N	141.50E	33	4.0b			¶97x4327
JMA	X	25 13 14 31.4±.8	31.82N±.05	141.59E±.05	80	3.1			
EIDC	X	25 13 14 32.5	31.7N	141.5E	37	3.6b,3.6L			
NEIC	Less reliable solution.								
JMA	**X**	**27 09 34 56.3**±.2	**33.69N**±.01	**140.64E**±.02	**20**	**3.1**			¶97x4595
JMA	**X**	**27 16 10 56.3**±.3	**32.13N**±.02	**140.80E**±.02	**30**	**3.4**			¶97x4632
ISC	**X**	**28 19 23 11**±2.4	**29.3N**±.11	**141.2E**±.28	**57**±22	**3.9b**	**12**	**4-81**	
NEIC	X	28 19 23 08.6	29.32N	141.21E	33	4.0b			¶97x4804
EIDC	X	28 19 23 14.5	29.4N	141.0E	64	3.6b			
NEIC	Less reliable solution.								
ISC	**X**	**28 21 38 44**±11	**31.8N**±.79	**140.0E**±.39	**37**		**11**	**1-5**	
JMA	X	28 21 38 49.6±.6	32.17N±.04	139.78E±.03	37	3.2			¶97x4820
ISC	**X**	**29 10 40 51**±1.5	**33.1N**±.14	**139.6E**±.13	**33**		**7**	**0-3**	
JMA	X	29 10 40 51.4±.2	33.24N±.02	139.64E±.03	33±3	3.2			¶97x4894
ISC	**X**	**29 17 42 48**±11	**32.0N**±.81	**140.0E**±.35	**22**		**8**	**1-5**	
JMA	X	29 17 42 50.6±.6	32.15N±.04	139.75E±.05	22	3.3			¶97x4933
ISC	**X**	**30 04 16 28**±8.2	**29.1N**±.19	**141.1E**±.50	**29**±60	**3.9b**	**6**	**4-76**	
EIDC	X	30 04 16 34.1	29.3N	140.9E	66	3.6b			¶97x4990
JMA	**X**	**30 05 25 56.2**±.3	**30.31N**±.03	**139.91E**±.08	**423**				¶97x4995
ISC	**XI**	**01 14 20 39**±2.6	**33.0N**±.17	**138.20E**±.097	**367**±23		**36**	**1-6**	
JMA	XI	01 14 20 40.1±.3	33.04N±.02	138.18E±.01	361±3				¶97xi0093
ISC	**XI**	**01 17 54 00.9**±.45	**33.20N**±.073	**138.18E**±.074	**322**±4.1	**3.5b**	**40**	**1-82**	
BJI	XI	01 17 54 00.7	33.20N	138.10E	317	4.5b			¶97xi0114
NEIC	XI	01 17 54 00.7	33.18N	138.12E	318	3.8b			
JMA	XI	01 17 54 01.5±.3	33.25N±.02	138.17E±.02	319±3				
EIDC	XI	01 17 54 02.0	33.2N	138.1E	317	3.1b			
NEIC	Less reliable solution.								
ISC	**XI**	**02 17 46 22**±2.6	**33.0N**±.22	**140.1E**±.31	**143**		**10**	**0-4**	
JMA	XI	02 17 46 21.1±.5	32.94N±.03	140.16E±.04	143±3				¶97xi0306
JMA	**XI**	**03 20 18 17.3**±.3	**33.33N**±.03	**138.44E**±.07	**369**				¶97xi0515
ISC	**XI**	**04 06 19 56**±3.5	**33.5N**±.44	**138.0E**±.47	**356**		**7**	**2-5**	
JMA	XI	04 06 19 56.8±.3	33.64N±.05	138.01E±.07	356				¶97xi0590
ISC	**XI**	**05 12 59 55**±11	**31.5N**±.77	**140.2E**±.33	**17**		**21**	**2-5**	
JMA	XI	05 13 00 04.0±.6	32.21N±.03	139.72E±.04	17	3.5			¶97xi0803
ISC	**XI**	**05 13 16 02**±7.3	**31.5N**±.51	**140.0E**±.28	**17**		**23**	**2-6**	
JMA	XI	05 13 16 10.5±.6	32.18N±.03	139.71E±.04	17	3.2			¶97xi0804
ISC	**XI**	**06 06 22 44**±1.6	**33.06N**±.085	**140.7E**±.26	**84**±15	**3.6b**	**21**	**1-57**	
EIDC	XI	06 06 22 45.4	33.1N	140.6E	69	3.2b,3.8L			¶97xi0935
JMA	XI	06 06 22 45.6±.1	33.16N±.01	140.65E±.02	69±3	3.7			
ISC	**XI**	**06 09 32 31.1**±.48	**33.68N**±.077	**138.39E**±.078	**282**±3.9	**3.5b**	**36**	**1-85**	
NEIC	XI	06 09 32 31.0	33.69N	138.42E	285	3.0b			¶97xi0953
JMA	XI	06 09 32 31.5±.2	33.74N±.02	138.39E±.02	280±2				
EIDC	XI	06 09 32 32.2	33.7N	138.4E	276	3.4b			
NEIC	Less reliable solution.								
ISC	**XI**	**07 19 13 13**±2.9	**33.1N**±.21	**140.4E**±.21	**74**		**11**	**0-4**	
JMA	XI	07 19 13 13.1±.1	33.09N±.01	140.37E±.02	74±2	3.5			¶97xi1161
JMA	**XI**	**07 22 10 23.4**±.3	**30.18N**±.03	**139.65E**±.05	**407**				¶97xi1175
JMA	**XI**	**09 15 26 44.0**±.1	**33.37N**±.01	**140.39E**±.01	**49**±3	**2.8**			¶97xi1466
ISC	**XI**	**09 21 37 41**±1.0	**33.43N**±.057	**140.9E**±.11	**57**±8.8	**4.1b**	**40**	**1-149**	
NEIC	XI	09 21 37 41.0	33.39N	140.80E	56	4.6b			¶97xi1515
JMA	XI	09 21 37 41.4±.1	33.51N±.01	140.89E±.01	58±3	4.0			
EIDC	XI	09 21 37 43.0	33.4N	140.8E	56	3.7b			
JMA	Felt I= II J1								
ISC	**XI**	**10 22 03 19**±6.2	**32.8N**±.39	**139.4E**±.15	**232**±41		**24**	**1-5**	
JMA	XI	10 22 03 21.9±.7	32.97N±.04	139.40E±.03	214±5				¶97xi1682
ISC	**XI**	**10 23 06 43.4**±.44	**31.15N**±.022	**140.48E**±.025	**79**±3.6	**5.7b**	**641**	**2-170**	
MOS	XI	10 23 06 39.4	31.3N	140.5E	39	6.4b,5.7s			¶97xi1690
BJI	XI	10 23 06 41.0	31.28N	140.98E	102	5.5b			
JMA	XI	10 23 06 42.6±.2	31.25N±.02	141.00E±.03	78	6.0			
EIDC	XI	10 23 06 43.8	31.2N	140.5E	71	5.3b,5.5s			
NEIC	XI	10 23 06 44.3	31.19N	140.49E	86	5.8b			
HRVD	XI	10 23 06 45.8±.1	31.27N±.01	140.63E±.01	63±1.3				
NEIC	Mw6.2(GS), Me5.6(GS).								
NEIC	Radiated energy from the P−wave first−motion solution: 6.5±1.6×10^{12}Nm/13								
NEIC	Mw 6.2 (HRV). Felt I=II J1 in southern Chiba Prefecture and on Hachijo-jima. Mo=4.0×10^{18}Nm (PPT).								
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S7°,δ88°,λ−60°. NP2:ϕ_S100°,δ30°,λ−176°. Principal axes: T Plg36°,Azm71°; P Plg40°,Azm304°. Depth from synthetics of broadband displacement seismograms.								
NEIC	Moment tensor solution: s36, scale 10^{18}Nm; M_{rr}0.35; $M_{\theta\theta}$−0.07; $M_{\phi\phi}$−0.28; $M_{r\theta}$−0.25; $M_{r\phi}$−1.83; $M_{\theta\phi}$0.03. Depth 63km; Principal axes: T 1.91,Plg50°,Azm99°; N −0.08,Plg2°, Azm7°; P −1.83,Plg40°,Azm276°. Best double couple: $M_0$1.9×10^{18}Nm; NP1:ϕ_S348°,δ5°, λ71°. NP2:ϕ_S188°,δ85°,λ92°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c93; Mantle waves: s26,c33; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}0.32±.02; $M_{\theta\theta}$−0.04±.02; $M_{\phi\phi}$−0.28±.02; $M_{r\theta}$−0.09±.02; $M_{r\phi}$−1.87±.03; $M_{\theta\phi}$−0.41±.01. Principal Axes: T 1.94,Plg49°,Azm81°; N 0.01,Plg12°,Azm185°; P −1.95,Plg39°,Azm284°. Best double couple: $M_0$1.9×10^{18}Nm, NP1:ϕ_S71°,δ13°,λ157°. NP2:ϕ_S184°,δ85°,λ78°.								
ISC	**XI**	**11 03 43 05.5**±.75	**31.09N**±.050	**140.49E**±.067	**77**±6.0	**4.6b**	**107**	**2-153**	
MOS	XI	11 03 43 01.6	31.1N	140.8E	55	5.5b			¶97xi1723
JMA	XI	11 03 43 04.7±.3	31.32N±.03	141.23E±.07	61	4.6			
NEIC	XI	11 03 43 06.0	31.13N	140.45E	82	5.0b			
EIDC	XI	11 03 43 07.5	31.2N	140.4E	80	4.2b,3.7s			
BJI	XI	11 03 43 08.0	31.10N	140.40E	82	4.3b,4.4s			
ISC	**XI**	**11 17 32 17.0**±.65	**31.17N**±.040	**140.49E**±.048	**89**±5.3	**4.7b**	**160**	**2-153**	
BJI	XI	11 17 32 09.6	31.03N	141.36E	84	4.5b,4.2s			¶97xi1836
MOS	XI	11 17 32 14.3	31.3N	140.7E	66	5.3b			
JMA	XI	11 17 32 15.0±.3	31.20N±.02	140.93E±.04	63	4.6			
NEIC	XI	11 17 32 16.3	31.17N	140.45E	84	5.0b			
EIDC	XI	11 17 32 18.3	31.1N	140.6E	89	4.3b,4.1s			
ISC	**XI**	**11 18 14 14**±1.2	**33.4N**±.11	**139.1E**±.10	**29**		**10**	**1-2**	
JMA	XI	11 18 14 13.8±.1	33.38N±.01	139.09E±.01	29±4	3.2			¶97xi1845
ISC	**XI**	**11 19 01 48.6**±.98	**31.55N**±.092	**140.8E**±.24	**110**±13	**3.6b**	**14**	**2-73**	
EIDC	XI	11 19 01 39.8	31.5N	139.0E	0	3.6b			¶97xi1854
JMA	XI	11 19 01 48.7±.3	31.61N±.03	140.97E±.06	94				
EIDC	LO CONF Location								
ISC	**XI**	**13 17 56 21.2**±.36	**33.59N**±.037	**139.67E**±.039	**124**±2.8	**4.8b**	**195**	**0-155**	
BJI	XI	13 17 56 11.8	33.44N	140.69E	115	4.7b			¶97xi2175
MOS	XI	13 17 56 19.4	33.6N	139.8E	115	5.2b			
NEIC	XI	13 17 56 20.1	33.61N	139.63E	115	4.9b			
EIDC	XI	13 17 56 21.7	33.6N	139.8E	116	4.5b			
JMA	XI	13 17 56 21.9±.2	33.68N±.01	139.91E±.01	112±2	4.9			
NEIC	Felt I=III MM.								
NEIC	Felt I=II J1 in southern Chiba Prefecture.								
JMA	Nodal plane solution: N215, Score 94%. NP1:ϕ_S95°,δ29°,λ177°. NP2:ϕ_S188°,δ88°,λ61°. Principle axes: T Plg40°,Azm72°; N Plg29°,Azm189°; P Plg37°,Azm304°.								
ISC	**XI**	**13 18 15 15**±1.4	**33.7N**±.13	**139.8E**±.28	**111**		**7**	**1-2**	
JMA	XI	13 18 15 15.3±.3	33.68N±.01	139.86E±.04	111±4				¶97xi2178
ISC	**XI**	**13 19 15 51.2**±.75	**31.14N**±.049	**140.78E**±.057	**66**±6.0	**4.5b**	**108**	**2-153**	
BJI	XI	13 19 15 44.4	30.83N	141.45E	68	4.2b,4.2s			¶97xi2181
MOS	XI	13 19 15 49.1	31.1N	141.0E	56	5.1b			
JMA	XI	13 19 15 49.3±.2	31.21N±.02	141.14E±.04	42	4.4			
NEIC	XI	13 19 15 51.4	31.15N	140.73E	68	4.7b			
EIDC	XI	13 19 15 52.9	31.2N	140.7E	68	4.1b,3.8s			
ISC	**XI**	**14 20 24 39**±5.2	**33.5N**±.21	**140.9E**±.45	**54**		**8**	**1-4**	
JMA	XI	14 20 24 38.2±.3	33.47N±.01	140.94E±.03	54	3.1			¶97xi2347
ISC	**XI**	**14 23 20 44**±1.0	**30.5N**±.12	**139.1E**±.30	**434**±11	**3.4b**	**21**	**3-80**	
NEIC	XI	14 23 20 43.1	30.31N	137.52E	400	3.9b			¶97xi2375
JMA	XI	14 23 20 43.5±.2	30.48N±.02	139.33E±.05	446				
EIDC	XI	14 23 20 45.1	30.6N	139.6E	438	3.0b			
NEIC	Poor solution.								
ISC	**XI**	**15 13 09 16.3**±.46	**30.57N**±.055	**138.58E**±.076	**405**±4.0	**4.2b**	**78**	**3-152**	
BJI	XI	15 13 09 15.7	30.49N	138.59E	416	4.5b			¶97xi2480
JMA	XI	15 13 09 16.2±.3	30.77N±.02	139.22E±.05	434±3				
NEIC	XI	15 13 09 16.4	30.62N	138.54E	405	4.5b			
EIDC	XI	15 13 09 16.8	30.6N	138.6E	392	3.7b			
ISC	**XI**	**16 02 51 35**±2.6	**32.31N**±.054	**141.7E**±.11	**23**±19	**4.2b**	**38**	**2-93**	
EIDC	XI	16 02 51 33.1	32.4N	141.7E	0	4.1b,4.4L			¶97xi2584
BJI	XI	16 02 51 33.2	32.29N	141.74E	22	4.3b,4.4s			
JMA	XI	16 02 51 34.2±.3	32.41N±.02	141.99E±.03	44	3.8			
NEIC	XI	16 02 51 36.4	32.29N	141.44E	33				
NEIC	Less reliable solution.								
ISC	**XI**	**16 16 26 31**±2.4	**31.1N**±.32	**141.0E**±.39	**33**	**4.0b**	**7**	**2-80**	
EIDC	XI	16 16 26 26.7	31.0N	141.1E	0	3.7L,3.9b			¶97xi2668
NEIC	XI	16 16 26 30.9	31.02N	141.00E	33	4.2b			
NEIC	Poor solution.								
ISC	**XI**	**16 23 34 24.8**±.92	**31.23N**±.064	**141.1E**±.16	**82**±9.4	**3.8b**	**25**	**2-75**	
NEIC	XI	16 23 34 24.5	31.17N	140.87E	77	3.6b			¶97xi2708
JMA	XI	16 23 34 24.8±.3	31.26N±.02	141.06E±.04	44	3.8			
EIDC	XI	16 23 34 27.5	31.2N	140.6E	80	3.5b			
NEIC	Poor solution.								
JMA	**XI**	**18 13 43 19.4**±.3	**33.66N**±.01	**140.59E**±.03	**28**	**2.9**			¶97xi2974
ISC	**XI**	**19 04 22 37**±2.4	**33.7N**±.12	**140.6E**±.23	**51**		**12**	**1-3**	
JMA	XI	19 04 22 37.8±.2	33.74N±.01	140.57E±.02	51±4	3.3			¶97xi3135
ISC	**XI**	**20 05 45 32**±5.7	**29.20N**±.061	**142.44E**±.089	**14**±34	**4.4b,4.1s**	**51**	**5-151**	
BJI	XI	20 05 45 33.4	29.21N	142.40E	31	4.5b,4.1s			¶97xi3401
MOS	XI	20 05 45 34.7	29.3N	142.5E	33	5.1b,4.1s			
NEIC	XI	20 05 45 34.8	29.24N	142.50E	33	4.6b			
EIDC	XI	20 05 45 38.3	29.2N	142.5E	47	4.0b			
ISC	**XI**	**20 05 59 55**±3.2	**33.5N**±.18	**141.0E**±.27	**57**		**9**	**1-3**	
JMA	XI	20 05 59 54.7±.2	33.56N±.01	140.94E±.02	57	3.3			¶97xi3405
ISC	**XI**	**20 09 16 27.4**±.45	**29.31N**±.042	**142.41E**±.098	**45**±2.7*	**4.2b,4.0s**	**48**	**4-151**	
BJI	XI	20 09 16 27.1	29.23N	142.49E	46	4.4b			¶97xi3429
NEIC	XI	20 09 16 27.9	29.24N	142.33E	45	4.4b			
EIDC	XI	20 09 16 29.6	29.2N	142.4E	44	3.9b,4.0s			
NEIC	Less reliable solution.								
ISC	**XI**	**20 09 17 38.5**±.93	**29.3N**±.11	**142.4E**±.15	**33**	**4.2b**,4.0s	**17**	**8-94**	
EIDC	XI	20 09 17 34.7	29.1N	142.5E	0	4.1b,4.3L			¶97xi3430
BJI	XI	20 09 17 38.5	29.21N	142.24E	36	4.5b			
NEIC	XI	20 09 17 38.5	29.28N	142.45E	33	4.4b,4.0s			
NEIC	Less reliable solution.								
ISC	**XI**	**20 09 25 44**±8.7	**29.34N**±.096	**143.0E**±.18	**7**±52	**4.0b**,3.7s	**19**	**5-149**	
EIDC	XI	20 09 25 45.4	29.4N	142.9E	0	3.9b,3.9L			¶97xi3433
BJI	XI	20 09 25 47.8	29.37N	143.15E	35	4.5b			
NEIC	XI	20 09 25 48.3	29.37N	143.00E	33	4.3b			
NEIC	Less reliable solution.								
ISC	**XI**	**21 16 50 31.4**±.39	**31.90N**±.049	**142.31E**±.075	**36**	**4.2b**	**59**	**2-148**	
JMA	XI	21 16 50 27.1±.3	31.90N±.02	142.72E±.04	36	4.1			¶97xi3688
EIDC	XI	21 16 50 27.6	31.8N	142.4E	0	4.1b,4.6L			
BJI	XI	21 16 50 29.7	31.90N	142.47E	31	4.6b			
NEIC	XI	21 16 50 31.1	31.86N	142.35E	33	4.4b			
ISC	**XI**	**22 05 53 37**±1.2	**29.0N**±.14	**139.9E**±.74	**33**	**3.8b**	**4**	**8-87**	
EIDC	XI	22 05 53 33.9	29.0N	140.2E	0	3.8b,3.9L			¶97xi3815
ISC	Poorly determined								
ISC	**XI**	**24 00 38 48.9**±.57	**29.95N**±.061	**139.19E**±.086	**423**±5.7	**3.9b**	**49**	**3-88**	
BJI	XI	24 00 38 48.4	29.94N	139.09E	422	4.2b			¶97xi4234
NEIC	XI	24 00 38 48.8	29.98N	139.04E	418	4.2b			
JMA	XI	24 00 38 48.9±.2	30.00N±.03	139.45E±.04	431				
EIDC	XI	24 00 38 49.8	30.0N	139.1E	411	3.5b			
NEIC	Less reliable solution.								
JMA	**XI**	**24 07 24 15.2**±.3	**33.07N**±.03	**140.05E**±.08	**123**				¶97xi4276
ISC	**XI**	**28 04 46 25**±2.9	**32.9N**±.16	**137.28E**±.091	**22**±22		**21**	**1-4**	
JMA	XI	28 04 46 26.6±.1	32.98N±.01	137.25E±.01	47±3	3.6			¶97xi5009
ISC	**XI**	**28 09 45 08**±8.6	**32.7N**±.94	**138.6E**±.61	**362**		**11**	**3-5**	
JMA	XI	28 09 45 05.8±.4	32.48N±.04	138.68E±.07	362				¶97xi5055
ISC	**XI**	**30 00 16 25.4**±.50	**30.42N**±.071	**139.0E**±.15	**438**±6.2	**3.6b**	**31**	**3-87**	
JMA	XI	30 00 16 25.0±.2	30.49N±.03	139.24E±.04	449				¶97xi5344
NEIC	XI	30 00 16 26.6	30.46N	138.76E	450	3.8b			
EIDC	XI	30 00 16 26.7	30.5N	138.8E	429	3.3b			
NEIC	Less reliable solution.								
ISC	**XII**	**01 04 28 41**±7.6	**32.7N**±.67	**138.3E**±.91	**402**		**8**	**3-6**	
JMA	XII	01 04 28 39.5±.3	32.59N±.03	138.17E±.07	402				¶97xii0034
EIDC	**XII**	**01 23 35 05.0**±2.26	**30.0N**	**137.2E**	**0**	**3.5b**,3.7L		**7-57**	
									¶97xii0158
EIDC	Error ellipse is semi−major=210.4km semi−minor=23.0km azimuth=102								
JMA	**XII**	**02 07 04 48.4**±.3	**33.65N**±.04	**138.69E**±.04	**295**				¶97xii0202
ISC	**XII**	**04 18 09 48**±1.5	**32.32N**±.071	**142.2E**±.17	**40**±22	3.7b	**19**	**2-56**	
JMA	XII	04 18 09 47.5±.2	32.33N±.02	142.11E±.03	43	3.2			¶97xii0666
EIDC	XII	04 18 09 48.9±3.69	31.8N	141.2E	0	3.5L,3.6b			
EIDC	Error ellipse is semi−major=140.5km semi−minor=20.5km azimuth=68								
ISC	**XII**	**04 23 26 50.3**±.65	**31.46N**±.099	**138.5E**±.19	**396**±7.5	**3.5b**	**26**	**2-78**	
NEIC	XII	04 23 26 51.0	31.49N	137.79E	381	4.0b			¶97xii0720
JMA	XII	04 23 26 51.7±.3	31.72N±.05	138.60E±.06	405				
EIDC	XII	04 23 26 51.9±1.83	31.4N	137.8E	370±19.8	3.2b			
NEIC	Poor solution.								
EIDC	Error ellipse is semi−major=30.6km semi−minor=22.1km azimuth=97								
JMA	**XII**	**07 19 43 22.5**±.2	**32.03N**±.02	**141.06E**±.02	**25**	**3.4**			¶97xii1776
ISC	**XII**	**08 01 40 25.1**±.84	**31.8N**±.10	**140.1E**±.30	**33**	**3.7b**	**7**	**5-69**	
EIDC	XII	08 01 40 22.5±1.04	31.8N	140.2E	0	3.7b			¶97xii1835
NEIC	XII	08 01 40 25.1	31.79N	140.16E	33	3.7b			
EIDC	Error ellipse is semi−major=52.5km semi−minor=22.8km azimuth=99								
NEIC	Less reliable solution.								
ISC	**XII**	**08 09 46 29**±7.6	**33.0N**±.56	**138.0E**±.30	**376**±58		**13**	**2-5**	
JMA	XII	08 09 46 31.1±.4	33.02N±.05	138.07E±.03	355				¶97xii1905
ISC	**XII**	**10 18 23 15**±2.9	**33.3N**±.39	**138.3E**±.28	**321**		**11**	**2-5**	
JMA	XII	10 18 23 17.0±.4	33.54N±.06	138.25E±.05	321				¶97xii2403
ISC	**XII**	**14 05 57 28**±6.0	**33.3N**±.28	**139.7E**±.19	**152**±56		**13**	**0-4**	
JMA	XII	14 05 57 29.7±.3	33.37N±.02	139.70E±.02	136±3				¶97xii3094
ISC	**XII**	**16 07 22 46.3**±.82	**33.4N**±.10	**140.0E**±.17	**117**±11	**3.6b**	**14**	**0-57**	
EIDC	XII	16 07 22 38.7±1.31	33.0N	136.0E	0	3.5b,3.7L			¶97xii3403
JMA	XII	16 07 22 48.2±.2	33.44N±.01	139.95E±.02	99±3				

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
EIDC	Error ellipse is semi−major=76.2km semi−minor=23.5km azimuth=91								
JMA	**XII**	**16 16 40 55.5**±.2		**33.69N**±.02	**138.43E**±.07	**358**			¶97xii3478
ISC	**XII**	**18 07 53 01.9**±.59		**31.39N**±.066	**142.53E**±.077	**63**	**4.3b**	**63 3-162**	
EIDC	XII	18 07 52 53.0±.68		30.9N	142.7E	0	4.2b,4.5L		¶97xii3735
JMA	XII	18 07 52 54.4±.3		31.09N±.02	142.94E±.05	63	4.1		
NEIC	XII	18 07 52 56.1		30.91N	142.61E	33	4.5b		
BJI	XII	18 07 52 56.3		31.00N	142.40E	22	4.4b		
EIDC	Error ellipse is semi−major=18.8km semi−minor=14.7km azimuth=95								
NEIC	Less reliable solution.								
ISC	**XII**	**18 19 14 29**±2.4		**33.9N**±.11	**139.8E**±.11	**103**±27		**14 0-2**	
JMA	XII	18 19 14 28.8±.2		33.86N±.01	139.84E±.02	104±2			¶97xii3809
ISC	**XII**	**20 20 54 00**±4.6		**33.4N**±.23	**140.8E**±.42	**48**		**5 1-2**	
JMA	XII	20 20 53 59.5±.3		33.45N±.01	140.74E±.02	48	3.0		¶97xii4166
ISC	Poorly determined								
ISC	**XII**	**20 20 58 57**±2.0		**32.2N**±.13	**142.62E**±.083	**35**±13	**4.2b**	**71 3-92**	
JMA	XII	20 20 58 55.2±.5		32.22N±.03	142.58E±.04	19	4.3		¶97xii4168
NEIC	XII	20 20 58 56.4		32.16N	142.63E	33	4.3b		
BJI	XII	20 20 58 56.5		32.25N	142.34E	14	4.4b,4.0s		
EIDC	XII	20 20 58 57.3±1.32		31.9N	142.7E	38±6.6	4.0b,4.6L		
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=27.7km semi−minor=18.5km azimuth=14								
JMA	**XII**	**21 07 06 43.7**±.2		**33.22N**±.01	**139.89E**±.04	**163**±2			¶97xii4227
JMA	**XII**	**22 14 31 25.4**±.5		**33.29N**±.04	**139.73E**±.05	**161**			¶97xii4434
ISC	**XII**	**23 07 43 04.4**±.71		**30.90N**±.099	**137.6E**±.20	**502**±8.2	**3.3b**	**22 3-79**	
NEIC	XII	23 07 43 04.1		30.90N	137.55E	500	3.3b		¶97xii4564
JMA	XII	23 07 43 05.9±.5		30.97N±.06	137.95E±.08	489			
EIDC	XII	23 07 43 06.0±1.33		30.9N	137.6E	503±17.1	3.0b		
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=43.0km semi−minor=16.8km azimuth=84								
ISC	**XII**	**24 20 03 51.2**±.81		**32.7N**±.12	**139.3E**±.33	**244**±10	**3.3b**	**18 1-78**	
EIDC	XII	24 20 03 16.1±1.48		33.3N	145.1E	0	3.7b,3.4L		¶97xii4815
JMA	XII	24 20 03 51.5±.2		32.79N±.02	139.53E±.06	255			
EIDC	Error ellipse is semi−major=47.8km semi−minor=24.4km azimuth=76								
ISC	**XII**	**25 19 01 38.7**±.39		**29.74N**±.054	**137.82E**±.076	**520**±5.6	**4.0b**	**73 4-97**	
JMA	XII	25 19 01 37.0±.3		29.76N±.04	137.99E±.03	550			¶97xii4976
NEIC	XII	25 19 01 38.3		29.75N	137.68E	512	4.2b		
BJI	XII	25 19 01 38.4		29.57N	137.57E	513	4.8b		
EIDC	XII	25 19 01 39.1±.88		29.7N	137.7E	503±10.3	3.4b		
EIDC	Error ellipse is semi−major=22.2km semi−minor=10.7km azimuth=89								
ISC	**XII**	**28 04 30 44**±3.1		**33.5N**±.17	**140.7E**±.36	**89**		**9 1-3**	
JMA	XII	28 04 30 43.9±.3		33.52N±.01	140.75E±.03	89±4	2.9		¶97xii5395
ISC	**XII**	**29 20 39 52**±2.6		**33.3N**±.37	**138.1E**±.30	**318**		**7 2-5**	
JMA	XII	29 20 39 53.1±.3		33.40N±.04	138.15E±.03	318			¶97xii5638
ISC	**XII**	**30 07 12 23.7**±.77		**29.99N**±.085	**139.0E**±.25	**427**±9.3	**3.1b**	**20 4-80**	
JMA	XII	30 07 12 25.8±.2		30.27N±.02	139.65E±.07	428			¶97xii5698
EIDC	XII	30 07 12 26.5±3.37		30.0N	138.7E	440±39.5	2.9b		
EIDC	Error ellipse is semi−major=50.4km semi−minor=17.0km azimuth=92								
ISC	**XII**	**30 14 11 01**±7.3		**33.4N**±.82	**139.1E**±.90	**306**		**8 2-3**	
JMA	XII	30 14 11 00.9±.2		33.42N±.03	139.06E±.05	306			¶97xii5743
ISC	**XII**	**30 19 41 13**±4.3		**33.4N**±.48	**138.8E**±.29	**304**		**10 2-5**	
JMA	XII	30 19 41 13.1±.4		33.39N±.03	138.79E±.04	304±4			¶97xii5779
ISC	**XII**	**30 21 30 20**±2.0		**33.6N**±.17	**138.60E**±.084	**47**		**17 1-3**	
JMA	XII	30 21 30 20.9±.2		33.71N±.01	138.58E±.01	47±4	3.3		¶97xii5790
ISC	**XII**	**31 15 27 32**±1.4		**30.15N**±.086	**141.9E**±.62	**33**	**3.9b**	**12 3-75**	
JMA	XII	31 15 27 42.7±.7		30.93N±.04	141.57E±.06	38	3.2		¶97xii5919
EIDC	XII	31 15 27 48.6±5.32		29.5N	136.2E	87±52.7	3.4b		
EIDC	Error ellipse is semi−major=61.9km semi−minor=20.2km azimuth=86LO CONF								

(212) Bonin Islands region.

ISC	**VII**	**01 09 51 22.5**±.59	**28.45N**±.079	**143.3E**±.18	**40**±.8*	**3.9b**	**15 2-150**		
NEIC	VII	01 09 51 22.5	28.45N	143.34E	40	4.0b			¶97vii0060
EIDC	VII	01 09 51 24.5	28.5N	143.2E	38	3.7b,3.1L			
NEIC	Less reliable solution.								
ISC	**VII**	**01 10 01 36.4**±.45	**28.49N**±.068	**143.2E**±.11	**39**±.4*	**4.1b**	**26 2-150**		
BJI	VII	01 10 01 36.2	28.48N	143.39E	42	4.2b			¶97vii0063
NEIC	VII	01 10 01 36.3	28.50N	143.20E	39	4.2b			
EIDC	VII	01 10 01 38.1	28.5N	143.2E	37	3.9b,3.5L			
NEIC	Less reliable solution.								
ISC	**VII**	**01 15 22 08.6**±.51	**28.37N**±.076	**143.5E**±.13	**41**±.8*	**3.9b**	**21 2-150**		
NEIC	VII	01 15 22 07.6	28.40N	143.57E	33	4.2b			¶97vii0109
EIDC	VII	01 15 22 10.2	28.3N	143.5E	38	3.7b,3.1L			
NEIC	Less reliable solution.								
ISC	**VII**	**02 10 05 38**±2.0	**28.63N**±.090	**142.8E**±.20	**48**±19	**3.7b**	**11 2-94**		
NEIC	VII	02 10 05 36.1	28.66N	142.96E	33				¶97vii0222
EIDC	VII	02 10 05 38.9	28.6N	142.9E	41	3.6b,2.9L			
NEIC	Single network solution.								
ISC	**VII**	**03 08 01 41**±1.3	**26.4N**±.15	**143.7E**±.21	**33**	**3.6b**	**6 1-149**		
EIDC	VII	03 08 01 37.6	26.4N	143.7E	0	3.5b,3.3s			¶97vii0374
NEIC	VII	03 08 01 40.8	26.41N	143.68E	33				
NEIC	Single network solution.								
ISC	**VII**	**04 11 57 15.4**±.67	**28.47N**±.084	**143.1E**±.21	**39**	**3.8b**	**12 2-94**		
NEIC	VII	04 11 57 15.0	28.49N	143.20E	39	4.0b			¶97vii0556
EIDC	VII	04 11 57 17.0	28.4N	143.3E	37	3.5b,3.2L			
NEIC	Less reliable solution.								
ISC	**VII**	**04 23 31 18.3**±.30	**28.40N**±.053	**143.30E**±.073	**38**±.6*	**4.4b**	**58 2-150**		
BJI	VII	04 23 31 17.4	28.39N	143.41E	43	4.4b			¶97vii0637
NEIC	VII	04 23 31 18.2	28.47N	143.25E	38	4.6b			
EIDC	VII	04 23 31 19.8	28.4N	143.3E	35	4.2b,3.8L			
ISC	**VII**	**04 23 33 22.9**±.77	**28.3N**±.10	**143.5E**±.19	**37**±2.1*	**4.0b**	**10 2-150**		
NEIC	VII	04 23 33 22.8	28.36N	143.53E	37				¶97vii0638
EIDC	VII	04 23 33 25.1	28.3N	143.5E	36	3.7b,3.1L			
NEIC	Single network solution.								
ISC	**VII**	**05 10 43 59.2**±.80	**28.51N**±.080	**143.4E**±.19	**33**	**3.7b**	**9 2-94**		
NEIC	VII	05 10 43 59.1	28.50N	143.46E	33	3.9b			¶97vii0715
EIDC	VII	05 10 44 01.7	28.5N	143.3E	35	3.4b,3.4L			
NEIC	Less reliable solution.								
ISC	**VII**	**06 02 31 37**±2.7	**28.58N**±.076	**143.2E**±.32	**43**±25	**3.8b**	**11 2-94**		
NEIC	VII	06 02 31 35.8	28.60N	143.21E	36	4.2b			¶97vii0827
EIDC	VII	06 02 31 37.6	28.5N	143.3E	37	3.5b,3.3L			
NEIC	Less reliable solution.								
ISC	**VII**	**06 12 17 52.6**±.31	**28.48N**±.049	**143.17E**±.077	**39**±.9*	**4.4b**	**50 2-149**		
BJI	VII	06 12 17 51.7	28.53N	143.35E	39	4.5b			¶97vii0883
NEIC	VII	06 12 17 52.6	28.50N	143.19E	39	4.6b			
EIDC	VII	06 12 17 54.2	28.4N	143.4E	39	4.1b,3.7L			
ISC	**VII**	**10 06 37 14.1**±.36	**28.33N**±.039	**139.14E**±.045	**517**±3.9	**4.1b**	**193 3-153**		
BJI	VII	10 06 37 11.6	28.26N	139.13E	496	4.8b			¶97vii1462
NEIC	VII	10 06 37 13.1	28.44N	138.97E	503	4.1b			
EIDC	VII	10 06 37 14.3	28.4N	139.1E	507	3.5b			
JMA	VII	10 06 37 14.6±.1	28.40N±.02	139.35E±.02	513±2	5.0			
ISC	**VII**	**10 09 29 18.5**±.42	**28.52N**±.045	**143.28E**±.078	**34**±.7*	**4.2b**	**52 2-150**		
BJI	VII	10 09 29 17.6	28.39N	143.48E	37	4.5b			¶97vii1490
JMA	VII	10 09 29 17.8±.4	28.56N±.01	143.19E±.06	67				
NEIC	VII	10 09 29 18.2	28.47N	143.30E	34	4.5b			
EIDC	VII	10 09 29 20.1	28.4N	143.4E	34	4.0b,3.5L			
NEIC	Less reliable solution.								
ISC	**VII**	**12 08 47 53.1**±.98	**27.79N**±.085	**143.5E**±.19	**33**	**3.7b**	**9 1-149**		
NEIC	VII	12 08 47 53.3	27.75N	143.53E	33	4.0b			¶97vii1795
EIDC	VII	12 08 47 55.0	27.7N	143.3E	26	3.4b,4.0L			
NEIC	Poor solution.								
ISC	**VII**	**13 11 53 37**±1.0	**28.44N**±.081	**143.7E**±.19	**33**	**3.9b**	**9 2-56**		
EIDC	VII	13 11 53 34.6	28.3N	143.7E	0	3.8b,3.4L			¶97vii1967
NEIC	VII	13 11 53 36.7	28.45N	143.65E	33	4.1b			
NEIC	Less reliable solution.								
ISC	**VII**	**15 06 56 41**±3.0	**28.0N**±.15	**141.7E**±.33	**38**±28	**4.1b**	**9 1-95**		
NEIC	VII	15 06 56 39.8	28.11N	141.99E	33	4.0b			¶97vii2265
EIDC	VII	15 06 56 41.3	28.0N	142.2E	34	3.8b,2.4L			
NEIC	Poor solution.								
ISC	**VII**	**24 09 54 31.7**±.47	**27.53N**±.049	**140.0E**±.12	**488**±6.4	**3.9b**	**72 2-164**		
NEIC	VII	24 09 54 31.1	27.58N	139.98E	481	3.8b			¶97vii3657
EIDC	VII	24 09 54 33.1	27.6N	140.2E	490	3.5b			
JMA	VII	24 09 54 33.4±.3	27.73N±.02	139.85E±.07	458				
NEIC	Less reliable solution.								
ISC	**VII**	**27 06 54 25.7**±.42	**27.31N**±.035	**140.50E**±.044	**353**±3.4	**4.4b**	**223 2-151**		
MOS	VII	27 06 54 23.6	27.3N	140.1E	331	5.0b			¶97vii4074
BJI	VII	27 06 54 23.9	27.25N	140.43E	347	4.7b			
NEIC	VII	27 06 54 24.5	27.34N	140.15E	340	4.6b			
EIDC	VII	27 06 54 25.1	27.3N	140.3E	334	4.1b			
JMA	VII	27 06 54 28.0±.2	27.55N±.01	140.70E±.02	330±2				
ISC	**VII**	**31 12 24 35.8**±.64	**28.84N**±.047	**140.99E**±.099	**111**±6.6	**3.8b**	**80 2-95**		
NEIC	VII	31 12 24 35.4	28.74N	140.73E	112	4.1b			¶97vii4729
JMA	VII	31 12 24 36.5±.1	29.07N±.01	142.05E±.04	112				
EIDC	VII	31 12 24 36.6	28.8N	140.8E	111	3.6b			
ISC	**VII**	**31 22 19 48**±1.4	**26.40N**±.085	**141.8E**±.11	**62**±12	**4.6b**	**28 1-150**		
BJI	VII	31 22 19 47.9	26.17N	141.90E	83	4.4b			¶97vii4793
NEIC	VII	31 22 19 48.0	26.42N	141.82E	64	4.6b			
EIDC	VII	31 22 19 48.1	26.4N	141.9E	51	4.3b			
ISC	**VII**	**31 22 37 17**±2.1	**26.4N**±.12	**141.8E**±.47	**60**±22	**4.2b**	**10 1-84**		
NEIC	VII	31 22 37 16.8	26.40N	141.84E	60	4.0b			¶97vii4794
EIDC	VII	31 22 37 17.4	26.4N	141.8E	51	4.1b			
NEIC	Less reliable solution.								
ISC	**VIII**	**10 14 50 07.6**±.98	**26.5N**±.12	**143.5E**±.18	**33**	**3.7b**	**13 1-79**		
EIDC	VIII	10 14 50 04.7	26.5N	143.5E	0	3.8b,3.2L			¶97viii1407
NEIC	VIII	10 14 50 07.5	26.48N	143.49E	33				
NEIC	Less reliable solution.								
ISC	**VIII**	**10 21 57 43.8**±.62	**27.26N**±.061	**140.2E**±.17	**459**±8.1	**3.6b**	**48 2-78**		
NEIC	VIII	10 21 57 43.2	27.36N	140.30E	456	3.5b			¶97viii1463
EIDC	VIII	10 21 57 44.3	27.4N	140.5E	458	3.3b			
JMA	VIII	10 21 57 46.5±.2	27.53N±.02	140.54E±.05	448±2				
NEIC	Less reliable solution.								
ISC	**VIII**	**12 12 48 48.9**±.96	**28.0N**±.10	**139.4E**±.22	**513**±15	**3.4b**	**35 3-76**		
NEIC	VIII	12 12 48 47.4	28.02N	139.71E	500	3.7b			¶97viii1751
EIDC	VIII	12 12 48 49.6	28.1N	139.6E	515	2.9b			
JMA	VIII	12 12 48 50.0±.3	28.10N±.03	139.50E±.08	508				
NEIC	Less reliable solution.								
ISC	**VIII**	**14 06 34 57.4**±.84	**27.62N**±.084	**140.0E**±.28	**502**±12	**3.1b**	**25 2-73**		
EIDC	VIII	14 06 33 58.7	29.5N	132.8E	0	3.6b			¶97viii2016
JMA	VIII	14 06 35 00.7±.2	27.95N±.02	140.31E±.07	477				
ISC	**VIII**	**23 06 17 23.6**±.46	**28.86N**±.052	**139.23E**±.053	**478**±4.8	**3.6b**	**114 3-152**		
BJI	VIII	23 06 17 23.3	28.90N	138.90E	467	4.7b			¶97viii3352
NEIC	VIII	23 06 17 23.3	28.87N	138.95E	467	3.7b			
EIDC	VIII	23 06 17 23.9	28.9N	139.1E	462	3.3b			
JMA	VIII	23 06 17 24.1±.3	28.95N±.02	139.44E±.03	477±4				
NEIC	Less reliable solution.								
ISC	**VIII**	**24 09 21 48.2**±.45	**28.82N**±.058	**142.5E**±.11	**33**	**4.2b**	**26 2-149**		
EIDC	VIII	24 09 21 44.8	28.7N	142.8E	0	4.2b,3.7L			¶97viii3511
BJI	VIII	24 09 21 47.8	28.56N	142.26E	16	4.4b			
NEIC	VIII	24 09 21 47.8	28.84N	142.69E	33	4.3b			
NEIC	Less reliable solution.								
ISC	**VIII**	**28 06 41 48.0**±.91	**27.71N**±.086	**143.7E**±.18	**33**	**3.8b**	**8 2-59**		
EIDC	VIII	28 06 41 45.8	27.6N	143.8E	0	3.8b,4.4L			¶97viii4097
NEIC	VIII	28 06 41 47.9	27.73N	143.73E	33	3.8b			
NEIC	Less reliable solution.								
ISC	**VIII**	**29 23 11 08.7**±.77	**28.44N**±.082	**139.1E**±.10	**508**±8.8	**3.7b**	**31 3-152**		
BJI	VIII	29 23 11 04.0	27.92N	139.39E	500	4.6b			¶97viii4392
NEIC	VIII	29 23 11 08.0	28.43N	139.15E	500	3.6b			
EIDC	VIII	29 23 11 09.4	28.4N	139.2E	505	3.3b			
NEIC	Less reliable solution.								
ISC	**IX**	**02 00 39 31.7**±.35	**26.97N**±.033	**140.30E**±.039	**486**±3.5	**4.5b**	**260 2-164**		
NEIC	IX	02 00 39 31.0	26.98N	140.11E	481	4.6b			¶97ix0191
BJI	IX	02 00 39 31.1	26.91N	139.86E	456	4.6b			
JMA	IX	02 00 39 31.3±.1	27.04N±.01	140.58E±.02	484±2				
EIDC	IX	02 00 39 31.4	26.9N	140.1E	472	4.2b			
ISC	**IX**	**04 09 44 35**±1.7	**27.3N**±.12	**141.9E**±.47	**67**±19	**3.6b**	**8 0-78**		
EIDC	IX	04 09 44 28.4	27.3N	141.5E	0	3.7b			¶97ix0573
NEIC	IX	04 09 44 31.5	27.29N	141.43E	33	3.9b			
NEIC	Less reliable solution.								
ISC	**IX**	**08 03 14 40.8**±.86	**28.0N**±.11	**143.3E**±.27	**44**±1.8*	**3.7b**	**9 9-149**		
NEIC	IX	08 03 14 39.5	28.03N	143.40E	33	3.9b			¶97ix1160
EIDC	IX	08 03 14 42.7	28.0N	143.5E	43	3.4b,4.4L			
NEIC	Poor solution.								
ISC	**IX**	**12 15 40 29.3**±.37	**27.18N**±.042	**138.93E**±.054	**560**±5.4	**4.1b**	**138 3-153**		
NEIC	IX	12 15 40 28.2	27.26N	138.86E	549	4.1b			¶97ix1834
EIDC	IX	12 15 40 29.4	27.3N	139.0E	549	3.6b			
BJI	IX	12 15 40 29.9	27.27N	138.87E	566	4.8b			
JMA	IX	12 15 40 30.3±.2	27.23N±.02	138.95E±.02	540±3				
ISC	**IX**	**14 22 10 54.4**±.92	**27.2N**±.11	**140.6E**±.39	**481**±12	**3.4b**	**13 1-83**		
NEIC	IX	14 22 10 54.4	27.21N	140.67E	483				¶97ix2172
EIDC	IX	14 22 10 54.7	27.2N	140.6E	466	3.1b			
NEIC	Single network solution.								
EIDC	**IX**	**21 06 10 09.8**	**27.3N**	**141.4E**	**0**	3.5b,3.7L			¶97ix3050
ISC	**IX**	**29 06 43 43.9**±.74	**27.34N**±.073	**140.46E**±.086	**450**±6.4	**3.8b**	**80 2-151**		
NEIC	IX	29 06 43 43.9	27.35N	140.14E	450	4.0b			¶97ix4890
JMA	IX	29 06 43 44.1±.3	27.42N±.02	140.63E±.04	456±4				
EIDC	IX	29 06 43 46.2	27.3N	140.1E	462	3.4b			
NEIC	Less reliable solution.								
ISC	**X**	**02 01 01 21.3**±.54	**27.96N**±.055	**143.8E**±.10	**10**	**4.2b**	**37 2-149**		
BJI	X	02 01 01 21.2	27.90N	143.70E	10	4.2b			¶97x0183
NEIC	X	02 01 01 21.2	27.92N	143.69E	10	4.5b			
EIDC	X	02 01 01 21.6	27.9N	143.7E	0	4.0b,5.2L			

JMA X 02 01 01 24.2±.1 28.07N±.01 143.66E±.02 32 4.3
NEIC Less reliable solution.
EIDC X 05 20 06 45.5 27.7N 141.2E 0 3.7b,3.9L **¶97x0923**
EIDC X 06 19 40 18.2 27.0N 140.8E 0 3.3b,3.4L **¶97x1108**
ISC X 10 01 52 11.8±.73 **27.27N**±.075 **139.9E**±.21 **544**±11 **3.5b 25 2-83**
NEIC X 10 01 52 12.2 27.26N 139.96E 550 3.7b **¶97x1676**
EIDC X 10 01 52 12.4 27.3N 139.8E 531 3.1b
JMA X 10 01 52 12.6±.4 27.38N±.02 139.20E±.08 498
NEIC Less reliable solution.
ISC X 19 23 14 39±5.9 **27.1N**±.44 **140.6E**±.43 **437**±38 **3.6b 15 10-151**
NEIC X 19 23 14 40.7 27.15N 140.52E 450 4.4b **¶97x3403**
EIDC X 19 23 14 41.0 27.1N 140.4E 433 3.2b
NEIC Poor solution.
ISC X 26 21 48 33±1.3 **27.0N**±.22 **142.0E**±.62 **33 3.6b 4 47-84**
EIDC X 26 21 48 30.0 27.1N 141.9E 0 3.6b **¶97x4525**
ISC Poorly determined
EIDC X 28 04 26 42.7 27.7N 143.6E 0 4.1b,4.4L **¶97x4702**
ISC XI 05 23 45 30.9±.14 **27.88N**±.024 **142.61E**±.031 **10 5.4b,5.7s 368 1-164**
BJI XI 05 23 45 29.6 28.00N 142.67E 10 5.4b,5.9s **¶97xi0884**
NEIC XI 05 23 45 30.7 27.86N 142.61E 10 5.4b,5.6s
MOS XI 05 23 45 31.6 27.9N 142.6E 13 6.1b,6.0s
JMA XI 05 23 45 33.7±.4 28.00N±.01 142.53E±.08 43 5.9
EIDC XI 05 23 45 35.5 27.9N 142.7E 28 5.0b,5.7s
HRVD XI 05 23 45 35.7±.2 27.67N±.02 142.76E±.02 15
NEIC Mw5.9(GS), Mw5.9(HRV).
NEIC Moment tensor solution: s15, scale 10^{17}Nm; M_{rr}5.34; $M_{\theta\theta}$−0.46; $M_{\phi\phi}$−4.88; $M_{r\theta}$2.34; $M_{r\phi}$7.08; $M_{\theta\phi}$−2.04. Depth 7km; Principal axes: T 9.11,Plg63°,Azm286°; N 0.32,Plg2°, Azm19°; P −9.43,Plg27°,Azm110°. Best double couple: $M_0$9.3×10^{17}Nm; NP1:ϕ_S204°,δ18°, λ95°. NP2:ϕ_S19°,δ72°,λ88°.
JMA Felt I=II J1
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c63; Mantle waves: s13,c18; Half duration: 2s2. Moment tensor: Scale 10^{17}Nm; M_{rr}4.73±.08; $M_{\theta\theta}$0.16±.10; $M_{\phi\phi}$−4.89±.11; $M_{r\theta}$−1.00±.31; $M_{r\phi}$5.23±.33; $M_{\theta\phi}$−1.21±.09. Principal Axes: T 7.31,Plg63°,Azm244°; N −0.05,Plg12°,Azm1°; P −7.25,Plg23°,Azm96°. Best double couple: $M_0$7.3×10^{17}Nm, NP1:ϕ_S210°,δ25°,λ121°. NP2:ϕ_S356°,δ69°,λ77°.
EIDC XI 08 02 54 30.6 27.9N 142.7E 0 3.9b,3.6L **¶97xi1199**
ISC XI 09 16 07 47.9±.85 **27.8N**±.12 **142.7E**±.27 **33 3.7b 9 9-83**
EIDC XI 09 16 07 44.9 27.9N 142.9E 0 3.8b **¶97xi1471**
NEIC XI 09 16 07 47.8 27.82N 142.75E 33
NEIC Single network solution.
ISC XI 11 02 11 34.2±.59 **27.6N**±.11 **142.7E**±.14 **33 4.1b 18 10-150**
EIDC XI 11 02 11 32.0 27.9N 142.6E 0 3.8b,4.4L **¶97xi1712**
BJI XI 11 02 11 32.3 27.54N 142.98E 47 4.7b
NEIC XI 11 02 11 33.9 27.57N 142.90E 33 4.2b
NEIC Less reliable solution.
ISC XI 11 10 09 01.0±.21 **28.70N**±.035 **142.47E**±.040 **37**±1.3* **4.9b,4.8s 189 5-150**
EIDC XI 11 10 08 57.0 28.7N 142.5E 0 4.8b,4.8L **¶97xi1770**
NEIC XI 11 10 09 00.1 28.67N 142.43E 33 4.9b,4.8s
BJI XI 11 10 09 00.2 28.87N 142.41E 27 5.1b,4.7s
MOS XI 11 10 09 00.5 28.8N 142.6E 33 5.4b,4.8s
ISC XI 11 23 57 48±1.6 **27.5N**±.11 **140.2E**±.19 **457**±16 **3.5b 20 6-152**
BJI XI 11 23 57 42.9 27.50N 140.50E 400 4.1b **¶97xi1898**
NEIC XI 11 23 57 42.9 27.53N 140.54E 400 4.1b
EIDC XI 11 23 57 48.5 27.5N 140.2E 439 3.2b
NEIC Poor solution.
ISC XI 12 20 33 47.2±.93 **27.4N**±.10 **140.5E**±.19 **461**±8.5 **3.3b 27 1-83**
NEIC XI 12 20 33 46.5 27.36N 140.22E 450 3.9b **¶97xi2033**
EIDC XI 12 20 33 48.1 27.3N 140.1E 450 2.9b
JMA XI 12 20 33 48.4±.2 27.53N±.02 140.68E±.06 452
NEIC Poor solution.
ISC XI 13 09 56 24.1±.28 **27.73N**±.048 **142.66E**±.061 **33**±.8* **4.5b,4.6s 65 6-150**
EIDC XI 13 09 56 20.4 27.8N 143.0E 0 4.5b,4.4L **¶97xi2114**
BJI XI 13 09 56 22.6 27.69N 142.88E 42 4.4b,4.8s
NEIC XI 13 09 56 24.0 27.75N 142.73E 33 4.7b
ISC XI 14 10 27 38.8±.25 **27.75N**±.028 **142.79E**±.049 **34**±1.0* **4.7b,4.5s 136 1-150**
JMA XI 14 10 27 37.8±.4 27.89N±.01 142.95E±.05 44 4.7 **¶97xi2276**
BJI XI 14 10 27 37.9 27.92N 142.64E 18 5.0b,4.5s
NEIC XI 14 10 27 38.5 27.66N 142.80E 33 4.9b
MOS XI 14 10 27 38.7 27.7N 142.8E 33 5.5b,4.4s
EIDC XI 14 10 27 39.3 27.7N 142.9E 27 4.3b,4.7L
ISC XI 14 17 15 50.2±.91 **27.6N**±.11 **143.3E**±.19 **33 4.0b 14 10-78**
EIDC XI 14 17 15 47.3 27.6N 143.4E 0 3.9b,4.0L **¶97xi2324**
BJI XI 14 17 15 48.2 27.60N 143.40E 33
NEIC XI 14 17 15 50.2 27.58N 143.40E 33 4.3b
NEIC Less reliable solution.
ISC XI 15 22 59 44.9±.52 **26.37N**±.043 **140.66E**±.059 **459**±5.3 **4.5b 117 2-150**
NEIC XI 15 22 59 44.6 26.38N 140.58E 456 4.6b **¶97xi2557**
BJI XI 15 22 59 44.8 26.31N 140.61E 468 4.6b
EIDC XI 15 22 59 45.4 26.4N 140.7E 453 4.0b
JMA XI 15 22 59 47.6±.3 26.73N±.02 141.13E±.04 451±3
ISC XI 16 00 05 55.9±.91 **27.5N**±.15 **143.1E**±.27 **33 3.5b 7 41-78**
EIDC XI 16 00 05 52.8 27.5N 143.0E 0 3.5b,3.2L **¶97xi2572**
NEIC XI 16 00 05 55.7 27.50N 143.10E 33
NEIC Poor solution.
ISC XI 16 11 51 02.2±.57 **27.70N**±.086 **142.7E**±.13 **33 4.1b 21 10-149**
EIDC XI 16 11 50 59.5 27.8N 142.9E 0 4.0b,4.0L **¶97xi2642**
BJI XI 16 11 51 00.7 27.89N 142.78E 26 4.7b
NEIC XI 16 11 51 02.1 27.75N 142.71E 33 4.4b
NEIC Less reliable solution.
ISC XI 16 11 59 44±1.5 **27.90N**±.045 **142.65E**±.058 **20**±10 **4.5b,4.3s 108 1-150**
JMA XI 16 11 59 40.4±.5 27.92N±.02 143.20E±.05 26 4.6 **¶97xi2644**
EIDC XI 16 11 59 42.1 27.7N 142.9E 0 4.4b,4.2s
BJI XI 16 11 59 44.3 27.84N 142.69E 30 4.8b,4.5s
MOS XI 16 11 59 44.5 27.8N 142.8E 33 5.1b,4.4s
NEIC XI 16 11 59 44.7 27.71N 142.67E 33 4.7b,4.4s
ISC XI 18 03 39 09.2±.61 **28.61N**±.081 **142.7E**±.18 **33 4.2b 16 9-82**
EIDC XI 18 03 39 06.6 28.6N 142.8E 0 4.1b,3.9L **¶97xi2905**
BJI XI 18 03 39 07.2 28.62N 142.40E 25 4.6b
NEIC XI 18 03 39 09.0 28.58N 142.89E 33 4.5b
NEIC Less reliable solution.
ISC XI 19 01 16 28.7±.52 **27.70N**±.083 **142.7E**±.16 **33 4.1b 20 10-150**
NEIC XI 19 01 16 28.5 27.73N 142.74E 33 4.4b **¶97xi3099**
EIDC XI 19 01 16 30.8 27.7N 142.9E 35 3.8b,3.7L
NEIC Less reliable solution.
ISC XI 22 14 05 58.7±.63 **28.20N**±.063 **140.0E**±.10 **382**±6.1 **3.8b 50 2-152**
BJI XI 22 14 05 55.4 28.14N 139.98E 354 **¶97xi3890**
NEIC XI 22 14 05 55.8 28.19N 139.93E 350 4.6b
EIDC XI 22 14 05 58.2 28.3N 139.9E 357 3.5b
JMA XI 22 14 06 00.3±.3 28.38N±.02 140.48E±.06 377±5
NEIC Less reliable solution.
EIDC XI 23 16 43 25.2 27.9N 141.8E 44 3.5b,3.4L **¶97xi4153**

ISC XI 28 00 02 21.1±.18 **27.73N**±.030 **142.58E**±.036 **33 5.0b,5.0s 220 1-164**
JMA XI 28 00 02 19.0±.1 27.65N±.01 142.74E±.03 103 **¶97xi4966**
BJI XI 28 00 02 19.7 27.81N 142.74E 33 5.0b,5.1s
NEIC XI 28 00 02 20.7 27.71N 142.59E 33 5.1b,4.9s
MOS XI 28 00 02 21.2 27.7N 142.6E 33 5.6b,5.2s
EIDC XI 28 00 02 22.5 27.7N 142.7E 34 4.7b,4.1L
HRVD XI 28 00 02 23.9±.7 27.47N±.07 142.80E±.08 38±5.2
NEIC Mw5.2(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c28; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.27±.35; $M_{\theta\theta}$−1.43±.51; $M_{\phi\phi}$−3.84±.60; $M_{r\theta}$−2.28±.94; $M_{r\phi}$4.85±.92; $M_{\theta\phi}$−2.37±.42. Principal Axes: T 8.32,Plg60°,Azm233°; N −2.01,Plg23°,Azm10°; P −6.32,Plg19°,Azm108°. Best double couple: $M_0$7.3×10^{16}Nm, NP1: ϕ_S230°,δ33°,λ135°. NP2:ϕ_S0°,δ67°,λ65°.
ISC XI 28 12 28 05±1.0 **27.6N**±.14 **142.2E**±.25 **33 3.7b 8 10-84**
NEIC XI 28 12 28 05.3 27.56N 142.21E 33 4.0b **¶97xi5083**
EIDC XI 28 12 28 09.6 27.6N 142.2E 53 3.4b,4.1L
NEIC Poor solution.
EIDC XII 03 13 47 09.9±.96 **26.6N 141.8E 0 3.8b 39-51 ¶97xii0432**
EIDC Error ellipse is semi−major=36.7km semi−minor=13.0km azimuth=112
ISC XII 06 21 55 29.2±.45 **27.68N**±.066 **142.77E**±.085 **33 4.3b,3.9s 41 10-149**
EIDC XII 06 21 55 25.8±.68 27.7N 143.0E 0 4.1b,4.2L **¶97xii1542**
NEIC XII 06 21 55 29.1 27.73N 142.83E 33 4.3b
BJI XII 06 21 55 35.4 27.99N 141.92E 33 4.5b
EIDC Error ellipse is semi−major=21.2km semi−minor=13.6km azimuth=100
NEIC Less reliable solution.
ISC XII 08 05 17 46±2.7 **27.3N**±.18 **140.0E**±.36 **354**±25 **3.5b 9 9-151**
NEIC XII 08 05 17 45.5 27.26N 140.03E 355 3.5b **¶97xii1872**
EIDC XII 08 05 17 46.5±5.00 27.3N 140.1E 347±49.1 3.3b
NEIC Poor solution.
EIDC Error ellipse is semi−major=45.5km semi−minor=25.5km azimuth=94
ISC XII 10 18 58 58.5±.78 **28.0N**±.12 **143.7E**±.15 **33 3.7b 11 10-94**
EIDC XII 10 18 58 55.4±.94 27.9N 143.8E 0 3.6b,3.9L **¶97xii2409**
NEIC XII 10 18 58 57.9 27.97N 143.41E 33
EIDC Error ellipse is semi−major=30.3km semi−minor=16.9km azimuth=132
NEIC Single network solution.
ISC XII 11 05 01 41.3±.48 **27.25N**±.040 **140.09E**±.050 **352**±4.6 **4.5b 128 2-166**
BJI XII 11 05 01 38.8 26.94N 140.18E 352 4.4b **¶97xii2494**
NEIC XII 11 05 01 40.8 27.29N 139.94E 352 4.6b
EIDC XII 11 05 01 41.3±.66 27.3N 140.3E 345±6.2 4.1b
JMA XII 11 05 01 45.1±.2 27.73N±.02 140.98E±.06 349
EIDC Error ellipse is semi−major=17.7km semi−minor=8.4km azimuth=84
ISC XII 15 05 45 05±2.1 **28.6N**±.23 **140.0E**±.52 **482 8 2-9**
JMA XII 15 05 45 04.9±.2 28.69N±.02 140.08E±.07 482 **¶97xii3247**
ISC XII 16 21 51 24.1±.89 **28.83N**±.095 **142.4E**±.18 **33 4.2b 12 8-71**
EIDC XII 16 21 51 21.6±1.02 28.8N 142.6E 0 3.9b,3.6L **¶97xii3513**
NEIC XII 16 21 51 23.9 28.82N 142.26E 33 4.1b
EIDC Error ellipse is semi−major=50.1km semi−minor=16.5km azimuth=97
NEIC Poor solution.
EIDC XII 20 01 17 53.8 27.2N 140.6E 564±174.1 **3.0b 38-83 ¶97xii4065**
EIDC Origin time error = 24.57Error ellipse is semi−major=893.2km semi−minor=21.0km azimuth=82
ISC XII 23 17 52 53.3±.69 **28.69N**±.083 **139.8E**±.20 **462**±7.9 **3.3b 23 3-81**
NEIC XII 23 17 52 53.2 28.70N 139.42E 460 3.7b **¶97xii4634**
EIDC XII 23 17 52 55.5±3.55 28.7N 139.4E 468±42.3 3.0b
JMA XII 23 17 52 56.2±.2 29.00N±.03 140.15E±.06 439
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=47.7km semi−minor=17.7km azimuth=92
ISC XII 27 05 47 57±2.1 **27.6N**±.11 **140.0E**±.15 **482**±23 **3.6b 22 9-82**
NEIC XII 27 05 47 57.1 27.64N 140.15E 488 3.5b **¶97xii5259**
EIDC XII 27 05 47 57.3±.78 27.6N 140.1E 467±10.4 3.2b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=27.9km semi−minor=16.1km azimuth=91

(213) Volcano Islands region.

ISC VII 02 05 58 43±2.4 **24.3N**±.20 **141.8E**±.34 **191**±22 **3.5b 5 3-66**
NEIC VII 02 05 58 43.2 24.29N 141.83E 193 **¶97vii0189**
EIDC VII 02 05 58 45.2 24.4N 141.9E 185 3.2b
ISC Poorly determined
NEIC Poor solution.
ISC VII 08 02 24 04±1.3 **23.81N**±.020 **142.81E**±.027 **11**±7.6 **5.8b,5.6s 627 3-167**
BJI VII 08 02 24 05.8 23.98N 143.16E 38 5.6b,5.4s **¶97vii1126**
NEIC VII 08 02 24 07.3 23.80N 142.70E 33 5.8b,5.6s
MOS VII 08 02 24 07.5 23.8N 142.8E 33 6.2b,5.6s
EIDC VII 08 02 24 08.7 23.8N 142.8E 38 5.4b,4.7L
HRVD VII 08 02 24 10.5±.1 23.79N±.02 142.96E±.02 41
JMA VII 08 02 24 16.2±.3 24.53N±.02 143.17E±.03 84±5 5.6
NEIC Mw5.8(GS), Me5.8(GS).
NEIC Mw 5.8 (HRV).
NEIC Radiated energy from the P−wave first−motion solution: 1.0±0.2×10^{13}Nm/15
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S100°,δ80°,λ−120°. NP2:ϕ_S353°,δ31°, λ−19°. Principal axes: T Plg29°,Azm214°; P Plg47°,Azm339°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s44, scale 10^{17}Nm; M_{rr}−3.19; $M_{\theta\theta}$1.98; $M_{\phi\phi}$1.21; $M_{r\theta}$−3.80; $M_{r\phi}$0.05; $M_{\theta\phi}$2.64. Depth 25km; Principal axes: T 5.33,Plg20°,Azm148°; N 0.14,Plg24°, Azm247°; P −5.47,Plg57°,Azm22°. Best double couple: $M_0$5.4×10^{17}Nm; NP1:ϕ_S202°,δ33°, λ−140°. NP2:ϕ_S77°,δ70°,λ−64°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c110; Mantle waves: s19,c24; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.55±.06; $M_{\theta\theta}$1.48±.08; $M_{\phi\phi}$1.08±.09; $M_{r\theta}$−4.09±.15; $M_{r\phi}$0.65±.12; $M_{\theta\phi}$2.65±.08. Principal Axes: T 5.03,Plg23°,Azm149°; N 0.66,Plg29°,Azm253°; P −5.69,Plg51°,Azm28°. Best double couple: $M_0$5.4×10^{17}Nm, NP1:ϕ_S198°,δ34°,λ−150°. NP2:ϕ_S83°,δ74°,λ−59°.
ISC VII 08 02 40 17.4±.35 **24.12N**±.044 **142.71E**±.055 **54**±1.8* **4.7b 146 3-167**
EIDC VII 08 02 40 09.2 23.8N 142.8E 0 4.6b,4.0L **¶97vii1129**
BJI VII 08 02 40 11.6 23.81N 143.12E 32 4.8b
NEIC VII 08 02 40 12.9 23.79N 142.67E 33 4.9b
MOS VII 08 02 40 13.0 23.8N 142.8E 33 5.3b
ISC VII 08 03 00 19.8±.64 **23.7N**±.12 **142.7E**±.32 **33 4.0b 15 44-150**
EIDC VII 08 03 00 15.7 23.8N 143.1E 0 4.0b **¶97vii1133**
NEIC VII 08 03 00 18.9 23.78N 142.99E 33 4.2b
NEIC Poor solution.
ISC VII 08 19 55 37±4.7 **23.7N**±.10 **142.8E**±.33 **110**±45 **3.8b 10 13-81**
EIDC VII 08 19 55 36.0 23.7N 142.9E 77 3.5b,3.7L **¶97vii1229**
NEIC VII 08 19 55 36.3 23.71N 142.78E 100 4.0b
NEIC Less reliable solution.
ISC VII 10 00 28 59±1.7 **24.9N**±.30 **138.8E**±.48 **100 3.4b 4 4-76**
EIDC VII 10 00 29 01.7 24.8N 139.0E 109 3.2b,2.9L **¶97vii1417**
ISC Poorly determined

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII 14 20 29 23**±9.0	**23.33N**±.094	**143.9E**±.23	**8**±54	**3.9b**	**16**	**4-161**
EIDC	VII 14 20 29 25.1	23.2N	143.6E	0	3.9b,4.0L		¶97vii2199
NEIC	VII 14 20 29 26.0	23.38N	143.94E	33	3.7b		
NEIC	Less reliable solution.						
ISC	**VII 15 04 38 28**±1.2	**23.4N**±.12	**144.0E**±.32	**33**	**3.5b**	**5**	**4-60**
EIDC	VII 15 04 38 25.4	23.4N	143.8E	0	3.4b,3.3L		¶97vii2253
ISC	**VII 15 22 58 04**±2.3	**23.5N**±.23	**143.0E**±.27	**33**	**3.7b**	**6**	**4-81**
EIDC	VII 15 22 58 01.0	23.5N	143.1E	0	3.8b,3.2L		¶97vii2367
ISC	**VII 17 10 39 28**±2.1	**24.13N**±.083	**143.0E**±.18	**56**±19	**4.0b**	**20**	**3-150**
NEIC	VII 17 10 39 26.8	24.13N	143.02E	50	3.9b		¶97vii2584
EIDC	VII 17 10 39 29.9	24.2N	142.9E	59	3.7b,3.4L		
NEIC	Less reliable solution.						
ISC	**VII 18 23 47 39.4**±.58	**23.68N**±.078	**142.9E**±.15	**33**	**3.9b**	**24**	**3-150**
NEIC	VII 18 23 47 39.3	23.69N	142.93E	33	4.3b		¶97vii2801
EIDC	VII 18 23 47 41.6	23.7N	143.0E	37	3.7b,3.8L		
NEIC	Less reliable solution.						
EIDC	**VII 27 01 46 26.8**	**24.4N**	**142.3E**	**0**	**3.8b**		**60-150**
							¶97vii4041
ISC	**VII 28 04 04 58.7**±.79	**22.6N**±.10	**142.4E**±.33	**27**	**3.7b**	**10**	**19-151**
NEIC	VII 28 04 04 58.5	22.61N	142.38E	27	3.7b		¶97vii4207
EIDC	VII 28 04 05 00.4	22.6N	142.5E	24	3.6b,3.7L		
NEIC	Poor solution.						
ISC	**VII 28 04 26 21**±1.3	**22.5N**±.22	**143.0E**±.73	**33**	**3.7b**	**6**	**43-150**
NEIC	VII 28 04 26 21.2	22.48N	142.85E	33			¶97vii4209
EIDC	VII 28 04 26 21.9	22.5N	142.7E	26	3.6b		
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**VII 28 04 58 53**±1.2	**22.5N**±.20	**142.9E**±.67	**33**	**3.6b**	**7**	**43-150**
NEIC	VII 28 04 58 53.9	22.53N	142.71E	33			¶97vii4211
EIDC	VII 28 04 58 54.4	22.5N	142.8E	24	3.5b		
NEIC	Poor solution.						
ISC	**VII 28 06 46 54**±1.0	**22.36N**±.020	**142.80E**±.031	**18**±7.1	**5.5b,5.7s**	**533**	**5-171**
NEIC	VII 28 06 46 55.7	22.36N	142.73E	33	5.7b,5.8s		¶97vii4220
MOS	VII 28 06 46 56.1	22.4N	142.8E	33	6.2b,5.7s		
BJI	VII 28 06 46 56.9	22.58N	142.90E	38	5.6b,5.6s		
EIDC	VII 28 06 46 56.9	22.3N	142.9E	32	4.9b,4.3L		
HRVD	VII 28 06 46 58.5±.1	22.26N±.02	142.68E±.02	15			
NEIC	Ms6.1(BRK), Mw5.9(HRV).						
NEIC	Mw 5.8 (GS). Me 5.7 (GS).						
NEIC	Radiated energy from the USGS moment tensor solution: 7.3±1.6×10^{12}Nm/14						
NEIC	Moment tensor solution: s31, scale 10^{17}Nm; M_{rr}−7.39; $M_{\theta\theta}$3.63; $M_{\phi\phi}$3.79; $M_{r\theta}$0.50; $M_{r\phi}$−0.78; $M_{\theta\phi}$−1.38. Depth 6km; Principal axes: T 5.15,Plg4°,Azm47°; N 2.31,Plg1°, Azm137°; P −7.46,Plg86°,Azm240°. Best double couple: M$_0$6.3×10^{17}Nm; NP1:ϕ_S136°,δ41°, λ−92°. NP2:ϕ_S318°,δ49°,λ−89°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c120; Mantle waves: s18,c25; Half duration: 2s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−8.41±.09; $M_{\theta\theta}$1.96±.13; $M_{\phi\phi}$6.45±.13; $M_{r\theta}$0.81±.35; $M_{r\phi}$0.71±.41; $M_{\theta\phi}$−2.96±.10. Principal Axes: T 7.92,Plg1°,Azm244°; N 0.61,Plg7°,Azm334°; P −8.53,Plg83°,Azm145°. Best double couple: M$_0$8.2×10^{17}Nm, NP1:ϕ_S327°,δ44°,λ−99°. NP2:ϕ_S160°,δ46°,λ−81°.						
ISC	**VII 28 07 01 18**±1.7	**22.30N**±.042	**142.77E**±.067	**51**±16	**4.7b,**5.1s	**99**	**5-168**
BJI	VII 28 07 01 14.7	22.46N	143.01E	33	4.8b,5.2s		¶97vii4222
NEIC	VII 28 07 01 15.5	22.33N	142.79E	33	4.9b		
EIDC	VII 28 07 01 16.0	22.3N	142.9E	24	4.5b,4.1L		
MOS	VII 28 07 01 18.7	23.0N	143.0E	33	5.5b		
ISC	**VII 28 07 04 17**±2.3	**22.30N**±.066	**142.7E**±.13	**43**±20	**4.4b**	**36**	**5-150**
BJI	VII 28 07 04 15.2	22.10N	142.01E	19	4.7b		¶97vii4223
NEIC	VII 28 07 04 15.4	22.31N	142.82E	33	4.4b		
EIDC	VII 28 07 04 15.8	22.3N	143.0E	24	4.1b,3.7L		
ISC	**VII 28 07 07 18**±4.8	**22.30N**±.059	**142.8E**±.11	**31**±34	**4.5b**	**37**	**5-150**
EIDC	VII 28 07 07 18.0	22.3N	143.2E	20	4.3b,3.1L		¶97vii4225
BJI	VII 28 07 07 18.2	22.30N	142.90E	33	4.6b		
NEIC	VII 28 07 07 18.2	22.32N	142.91E	33	4.4b		
ISC	**VII 28 07 09 13.6**±.95	**22.9N**±.15	**141.8E**±.58	**33**	**3.8b**	**9**	**43-151**
EIDC	VII 28 07 09 14.0	22.9N	141.5E	26	3.7b		¶97vii4226
ISC	**VII 28 09 51 13**±1.1	**22.24N**±.027	**142.78E**±.040	**34**±9.9	**5.0b,4.5s**	**236**	**5-168**
HRVD	VII 28 09 51 10.6±1.6	21.88N±.30	143.15E±.16	15			¶97vii4246
NEIC	VII 28 09 51 11.1	22.26N	142.77E	25	5.2b,4.6s		
MOS	VII 28 09 51 11.7	22.3N	142.9E	31	5.7b,4.6s		
BJI	VII 28 09 51 12.0	22.60N	142.94E	26	5.1b,4.7s		
EIDC	VII 28 09 51 12.8	22.3N	142.9E	24	4.7b,3.7L		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s9,c11; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.94±.80; $M_{\theta\theta}$−2.83±1.34; $M_{\phi\phi}$5.78±.89; $M_{r\theta}$−0.47±4.00; $M_{r\phi}$1.83±4.70; $M_{\theta\phi}$−3.42±.91. Principal Axes: T 7.32,Plg10°,Azm251°; N −3.26,Plg75°,Azm23°; P −4.06,Plg11°,Azm159°. Best double couple: M$_0$5.7×10^{16}Nm, NP1: ϕ_S295°,δ75°,λ−180°. NP2:ϕ_S205°,δ90°,λ−15°.						
NEIC	Mw5.1(HRV).						
ISC	**VII 29 06 54 53**±2.1	**22.40N**±.054	**142.79E**±.088	**41**±19	**4.5b,**4.1s	**49**	**5-150**
BJI	VII 29 06 54 51.2	22.43N	142.93E	34	4.7b,4.1s		¶97vii4394
MOS	VII 29 06 54 51.6	22.4N	142.8E	33	5.1b		
NEIC	VII 29 06 54 51.7	22.42N	142.79E	33	4.8b		
EIDC	VII 29 06 54 55.7	22.4N	142.8E	59	4.2b,3.9L		
ISC	**VII 29 06 59 39.0**±.92	**22.3N**±.11	**143.0E**±.39	**33**	**4.0b**	**8**	**5-150**
EIDC	VII 29 06 59 36.2	22.3N	143.0E	0	4.0b,3.4L		¶97vii4395
NEIC	VII 29 06 59 38.9	22.37N	142.96E	33			
NEIC	Poor solution.						
ISC	**VII 29 18 20 09**±2.2	**22.12N**±.090	**143.5E**±.13	**130**±19	**3.9b**	**30**	**5-150**
BJI	VII 29 18 20 08.6	22.15N	143.80E	136	4.2b		¶97vii4464
NEIC	VII 29 18 20 09.3	22.14N	143.49E	130	4.3b		
EIDC	VII 29 18 20 10.7	22.2N	143.5E	129	3.7b		
NEIC	Less reliable solution.						
ISC	**VII 29 18 31 11.0**±.80	**22.25N**±.089	**143.4E**±.28	**33**	**3.7b**	**8**	**5-76**
EIDC	VII 29 18 31 08.6	22.3N	143.5E	0	3.6b,3.3L		¶97vii4466
NEIC	VII 29 18 31 10.9	22.26N	143.40E	33			
NEIC	Less reliable solution.						
ISC	**VII 30 01 10 16**±2.3	**22.30N**±.074	**143.0E**±.13	**33**±20	**4.2b**	**30**	**5-150**
EIDC	VII 30 01 10 15.7	22.2N	143.1E	24	3.9b,3.8L		¶97vii4512
NEIC	VII 30 01 10 16.2	22.30N	142.91E	33	4.4b		
BJI	VII 30 01 10 16.4	22.23N	142.83E	33	4.9b		
ISC	**VIII 06 19 25 23**±3.9	**23.42N**±.066	**143.1E**±.15	**21**±27	**4.0b,3.8s**	**32**	**4-150**
NEIC	VIII 06 19 25 23.4	23.44N	143.12E	25	4.2b		¶97viii0833
EIDC	VIII 06 19 25 25.2	23.4N	143.1E	24	3.9b,3.7L		
NEIC	Less reliable solution.						
ISC	**VIII 07 04 27 03.9**±.18	**23.86N**±.023	**142.68E**±.042	**40**±4.6*	**5.0b,4.8s**	**271**	**3-167**
EIDC	VIII 07 04 26 59.1	23.8N	142.8E	0	4.9b,4.6L		¶97viii0883
BJI	VIII 07 04 27 03.9	24.00N	142.98E	51	5.0b,4.6s		
NEIC	VIII 07 04 27 04.9	23.79N	142.68E	50	5.2b,4.9s		
HRVD	VIII 07 04 27 05.6±.5	23.68N±.07	143.37E±.11	57±9.8			
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c19; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.20±.51; $M_{\theta\theta}$2.95±.66; $M_{\phi\phi}$−2.75±1.04; $M_{r\theta}$−5.61±.63; $M_{r\phi}$2.89±.66; $M_{\theta\phi}$2.68±.48. Principal Axes: T 7.21,Plg36°,Azm177°; N 0.40, Plg32°,Azm294°; P −7.62,Plg38°,Azm52°. Best double couple: M$_0$7.4×10^{16}Nm, NP1: ϕ_S206°,δ32°,λ−178°. NP2:ϕ_S114°,δ89°,λ−58°.						
ISC	**VIII 11 19 29 40**±3.8	**22.24N**±.076	**142.9E**±.15	**33**±34	**4.0b**	**25**	**15-150**
BJI	VIII 11 19 29 34.4	22.51N	143.65E	20	4.3b		¶97viii1617
NEIC	VIII 11 19 29 38.0	22.26N	142.92E	22	4.2b		
EIDC	VIII 11 19 29 39.7	22.2N	143.0E	20	3.8b,3.6L		
NEIC	Less reliable solution.						
ISC	**VIII 20 03 16 27.2**±.68	**25.1N**±.10	**140.6E**±.26	**100**	**4.5b**	**10**	**2-80**
NEIC	VIII 20 03 16 27.3	25.10N	140.64E	100	4.9b		¶97viii2900
EIDC	VIII 20 03 16 31.3	25.2N	141.2E	131	4.0b		
NEIC	Less reliable solution.						
ISC	**VIII 20 10 11 47**±6.0	**23.47N**±.099	**142.7E**±.29	**29**±44	**3.9b**	**11**	**4-81**
EIDC	VIII 20 10 11 44.8	23.6N	142.5E	0	3.9b,3.0L		¶97viii2940
NEIC	VIII 20 10 11 47.5	23.51N	142.73E	33	4.2b		
NEIC	Less reliable solution.						
ISC	**VIII 29 10 08 39.1**±.98	**24.5N**±.13	**140.9E**±.51	**33**	**3.9b**	**6**	**40-61**
EIDC	VIII 29 10 08 36.4	24.6N	140.9E	0	4.0b		¶97viii4274
EIDC	**IX 02 12 41 38.5**	**24.7N**	**143.2E**	**0**	**3.9b**		¶97ix0279
ISC	**IX 04 06 48 10**±3.9	**23.72N**±.053	**142.82E**±.090	**17**±28	**4.4b**	**45**	**3-150**
EIDC	IX 04 06 48 09.1	23.7N	142.9E	0	4.4b,4.2L		¶97ix0557
BJI	IX 04 06 48 12.0	23.77N	142.70E	26	4.8b		
NEIC	IX 04 06 48 12.0	23.74N	142.80E	33	4.6b		
ISC	**IX 06 10 56 18.5**±.69	**22.67N**±.028	**142.80E**±.037	**147**±6.3	**4.9b**	**366**	**4-168**
HRVD	IX 06 10 56 18.5±1.5	22.60N±.10	142.69E±.11	173±3.3			¶97ix0905
BJI	IX 06 10 56 21.1	22.88N	142.69E	170	5.2b		
NEIC	IX 06 10 56 21.3	22.73N	142.59E	177	5.1b		
EIDC	IX 06 10 56 23.4	22.7N	142.7E	183	4.5b		
MOS	IX 06 10 56 23.9	22.7N	142.7E	204	5.0b		
JMA	IX 06 10 56 24.0±.3	23.17N±.02	143.21E±.03	196±4			
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c17; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.33±.69; $M_{\theta\theta}$−4.61±.83; $M_{\phi\phi}$0.28±1.18; $M_{r\theta}$−2.68±.65; $M_{r\phi}$−7.00±.97; $M_{\theta\phi}$−1.86±1.12. Principal Axes: T 9.66,Plg54°,Azm97°; N −1.74,Plg21°,Azm219°; P −7.92,Plg28°,Azm321°. Best double couple: M$_0$8.8×10^{16}Nm, NP1:ϕ_S93°,δ26°,λ146°. NP2:ϕ_S214°,δ76°,λ68°.						
NEIC	Mw5.3(HRV).						
ISC	**IX 06 18 56 16**±1.6	**24.3N**±.12	**143.1E**±.44	**33**	**3.4b**	**6**	**13-81**
EIDC	IX 06 18 56 13.0	24.3N	143.1E	0	3.4b,3.4L		¶97ix0955
NEIC	IX 06 18 56 16.1	24.29N	143.07E	33	3.6b		
NEIC	Poor solution.						
ISC	**IX 06 23 44 30.6**±.46	**22.17N**±.074	**142.6E**±.13	**100**	**4.1b**	**25**	**20-150**
NEIC	IX 06 23 44 30.4	22.21N	142.60E	100	4.3b		¶97ix0991
EIDC	IX 06 23 44 32.1	22.2N	142.7E	101	3.8b,4.3L		
BJI	IX 06 23 44 34.5	22.20N	142.60E	100	4.6b		
NEIC	Less reliable solution.						
ISC	**IX 07 08 22 58**±2.5	**22.2N**±.10	**143.9E**±.32	**162**±24	**3.7b**	**12**	**5-149**
NEIC	IX 07 08 22 57.2	22.18N	143.86E	150	4.1b		¶97ix1030
EIDC	IX 07 08 23 00.3	22.3N	143.4E	164	3.5b		
NEIC	Less reliable solution.						
ISC	**IX 11 13 00 57.4**±.75	**24.2N**±.11	**142.9E**±.23	**33**	**3.8b**	**9**	**41-86**
EIDC	IX 11 13 00 54.2	24.2N	142.9E	0	3.8b		¶97ix1676
NEIC	IX 11 13 00 57.3	24.21N	142.95E	33	4.2b		
NEIC	Less reliable solution.						
ISC	**IX 16 18 45 59.0**±.98	**24.9N**±.13	**140.7E**±.24	**33**	**3.6b**	**6**	**3-60**
EIDC	IX 16 18 45 56.3	24.8N	140.5E	0	3.5b,3.2L		¶97ix2417
ISC	**IX 18 10 31 29.6**±.45	**25.37N**±.028	**141.37E**±.040	**205**±4.3	**4.6b**	**249**	**2-151**
NEIC	IX 18 10 31 29.4	25.28N	140.85E	197	4.6b		¶97ix2646
EIDC	IX 18 10 31 29.6	25.3N	140.9E	190	4.3b		
BJI	IX 18 10 31 30.7	25.46N	141.23E	218	5.3b		
JMA	IX 18 10 31 34.6±.2	25.83N±.02	141.49E±.02	212±2			
JMA	Felt I=II J1						
ISC	**X 14 02 34 08**±2.4	**22.62N**±.070	**143.3E**±.18	**133**±22	**4.1b**	**24**	**11-150**
NEIC	X 14 02 34 09.2	22.63N	143.26E	144	4.3b		¶97x2324
EIDC	X 14 02 34 10.7	22.7N	143.2E	138	4.0b		
ISC	**X 18 07 28 49**±1.1	**24.1N**±.12	**142.1E**±.33	**150**	**3.8b**	**10**	**18-81**
NEIC	X 18 07 28 55.1	24.02N	141.80E	200	4.3b		¶97x3117
EIDC	X 18 07 29 04.7	24.0N	141.1E	271	3.5b		
NEIC	Less reliable solution.						
ISC	**X 27 01 21 41**±1.8	**22.6N**±.12	**143.3E**±.73	**33**	**4.1b**	**10**	**15-150**
NEIC	X 27 01 21 41.8	22.59N	143.13E	33			¶97x4549
EIDC	X 27 01 21 42.7	22.6N	143.4E	27	4.0b		
NEIC	Poor solution.						
ISC	**X 30 11 30 40**±1.1	**24.9N**±.16	**143.5E**±.46	**33**	**3.8b**	**5**	**41-96**
EIDC	X 30 11 30 36.7	25.0N	143.7E	0	3.9b		¶97x5030
ISC	**XI 04 04 15 39**±7.5	**23.46N**±.066	**143.4E**±.15	**10**±45	**4.3b,4.1s**	**27**	**14-150**
NEIC	XI 04 04 15 42.5	23.46N	143.33E	33	4.5b		¶97xi0574
BJI	XI 04 04 15 43.6	23.36N	143.09E	28	4.7b		
EIDC	XI 04 04 15 46.8	23.4N	143.1E	46	4.0b,4.0s		
ISC	**XI 04 12 19 15.8**±.99	**23.3N**±.12	**143.6E**±.33	**33**	**3.8b**	**8**	**19-82**
EIDC	XI 04 12 19 16.0	23.4N	143.7E	21	3.7b,3.6L		¶97xi0632
ISC	**XI 04 15 11 16.1**±.40	**23.44N**±.053	**143.29E**±.095	**33**	**4.3b,4.1s**	**43**	**14-150**
EIDC	XI 04 15 11 13.2	23.5N	143.3E	0	4.3b,4.1s		¶97xi0659
NEIC	XI 04 15 11 15.9	23.45N	143.25E	33	4.4b		
BJI	XI 04 15 11 17.0	23.39N	143.31E	38	4.7b		
ISC	**XI 16 09 13 56**±1.2	**25.6N**±.13	**143.5E**±.27	**33**	**3.7b**	**8**	**12-149**
EIDC	XI 16 09 13 52.9	25.5N	143.4E	0	3.7b,3.9L		¶97xi2626
ISC	**XI 28 10 06 34.2**±.83	**23.2N**±.10	**142.3E**±.12	**33**	**4.0b**	**18**	**14-151**
EIDC	XI 28 10 06 31.7	23.2N	142.4E	0	4.0b,3.9L		¶97xi5059
BJI	XI 28 10 06 34.3	23.11N	142.40E	38	4.7b		
NEIC	XI 28 10 06 34.4	23.23N	142.36E	33	4.8b		
NEIC	Less reliable solution.						
ISC	**XII 03 04 00 25**±1.2	**23.3N**±.17	**142.5E**±.31	**33**	**4.0b**	**5**	**41-82**
EIDC	XII 03 04 00 21.7±1.14	23.3N	142.5E	0	4.0b		¶97xii0361
NEIC	XII 03 04 00 24.7	23.26N	142.52E	33			
EIDC	Error ellipse is semi-major=41.8km semi-minor=24.4km azimuth=103						
NEIC	Poor solution.						
ISC	**XII 05 22 48 14.6**±.22	**25.30N**±.044	**144.89E**±.040	**33**	**5.0b,4.7s**	**153**	**13-165**
NEIC	XII 05 22 48 14.3	25.38N	144.84E	33	5.2b		¶97xii1131
MOS	XII 05 22 48 14.4	25.4N	145.0E	33	5.5b		
BJI	XII 05 22 48 14.5	25.51N	144.47E	9	5.2b,4.6s		
EIDC	XII 05 22 48 14.7±.57	25.3N	145.0E	23±3.5	4.8b,4.8L		
EIDC	Error ellipse is semi-major=14.0km semi-minor=11.7km azimuth=85						
ISC	**XII 11 16 14 46.7**±.87	**24.4N**±.11	**142.7E**±.28	**150**	**3.5b**	**10**	**41-81**
EIDC	XII 11 16 14 46.7±1.78	24.4N	142.8E	135±15.1	3.4b		¶97xii2599
NEIC	XII 11 16 14 46.8	24.36N	142.66E	150	3.4b		
EIDC	Error ellipse is semi-major=55.5km semi-minor=20.8km azimuth=87						
NEIC	Less reliable solution.						
ISC	**XII 12 15 01 10.2**±.52	**24.12N**±.084	**143.10E**±.093	**33**	**4.3b,3.7s**	**32**	**9-150**
EIDC	XII 12 15 01 06.5±.67	24.1N	143.4E	0	4.3b,4.6L		¶97xii2766
BJI	XII 12 15 01 09.0	24.29N	143.05E	19	4.5b		

NEIC XII 12 15 01 10.1 24.12N 143.15E 33 4.6b
EIDC Error ellipse is semi−major=23.0km semi−minor=15.6km azimuth=81
EIDC XII 13 13 07 56.3±5.96 **24.5N 140.5E 0 4.0b 40-85 ¶97xii2948**
EIDC Error ellipse is semi−major=586.6km semi−minor=132.4km azimuth=72
ISC XII 13 22 47 22.7±.42 **23.41N**±.061 **143.39E**±.071 **33 4.3b,4.3s 60 14-147**
EIDC XII 13 22 47 19.3±.65 23.3N 143.5E 0 4.2b,4.3s **¶97xii3031**
BJI XII 13 22 47 22.3 23.63N 143.22E 17 4.6b,4.2s
NEIC XII 13 22 47 22.4 23.38N 143.34E 33 4.4b,4.1s
EIDC Error ellipse is semi−major=22.3km semi−minor=13.5km azimuth=90
NEIC Less reliable solution.
ISC XII 14 03 36 36.5±.98 **25.0N**±.18 **142.7E**±.35 **33 3.8b 8 57-86**
EIDC XII 14 03 36 33.5±1.22 25.0N 142.5E 0 3.9b **¶97xii3078**
NEIC XII 14 03 36 36.3 24.99N 142.76E 33 3.5b
EIDC Error ellipse is semi−major=52.4km semi−minor=31.0km azimuth=101
NEIC Poor solution.
ISC XII 23 17 29 41.7±.59 **23.70N**±.086 **142.0E**±.12 **139 3.9b 26 44-148**
NEIC XII 23 17 29 41.7 23.73N 141.84E 139 3.9b **¶97xii4631**
EIDC XII 23 17 29 43.5±.65 23.8N 141.5E 137±5.7 3.7b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=48.9km semi−minor=9.4km azimuth=100
ISC XII 28 02 34 04±1.0 **25.1N**±.13 **141.8E**±.19 **33 3.7b 6 12-60**
EIDC XII 28 02 34 01.3±1.23 25.1N 141.9E 0 3.7b,4.8L **¶97xii5381**
NEIC XII 28 02 34 04.1 25.14N 141.76E 33 3.8b
EIDC Error ellipse is semi−major=46.2km semi−minor=23.9km azimuth=95
NEIC Less reliable solution.

(215) Marianas region.

ISC VII 01 12 34 12±2.2 **18.77N**±.065 **147.0E**±.20 **51**±20 **4.0b**,4.1s **25 6-146**
EIDC VII 01 12 34 07.0 18.8N 147.4E 0 4.0b,4.1L **¶97vii0087**
BJI VII 01 12 34 09.3 18.99N 146.89E 30 4.4b
NEIC VII 01 12 34 10.2 18.80N 147.20E 33 4.2b,4.1s
NEIC Less reliable solution.
ISC VII 02 05 51 36±1.2 **18.7N**±.15 **147.3E**±.37 **33 3.7b**,2.9s **5 25-87**
EIDC VII 02 05 51 32.9 18.8N 147.3E 0 3.8b,2.9s **¶97vii0188**
ISC VII 02 10 33 10±2.0 **15.1N**±.14 **144.7E**±.23 **52**±22 **3.6b 10 2-90**
EIDC VII 02 10 33 04.7 15.1N 144.8E 0 3.6b,3.7s **¶97vii0225**
NEIC VII 02 10 33 08.6 15.24N 144.64E 33
NEIC Less reliable solution.
ISC VII 06 15 14 45±1.1 **12.5N**±.12 **149.2E**±.13 **35 3.7b 8 4-68**
EIDC VII 06 15 14 46.8 12.5N 149.3E 35 3.6b **¶97vii0895**
ISC VII 06 22 28 10.6±.87 **16.91N**±.089 **147.4E**±.20 **33 3.9b 16 4-95**
NEIC VII 06 22 28 09.6 16.89N 147.58E 33 **¶97vii0946**
EIDC VII 06 22 28 12.1 16.7N 147.1E 35 3.7b
NEIC Less reliable solution.
EIDC VII 07 04 42 56.0 19.3N 143.0E 0 3.7b 22-85 ¶97vii0993
EIDC VII 28 07 40 28.2 21.9N 144.3E 0 3.4b 43-61 ¶97vii4233
EIDC VII 28 09 13 19.9 21.0N 145.0E 0 3.5b 42-62 ¶97vii4241
ISC VIII 08 19 53 49.5±.61 **15.52N**±.063 **148.0E**±.12 **33**±1.0* **4.2b**,3.4s **25 4-145**
BJI VIII 08 19 53 49.4 15.59N 147.84E 31 4.8b **¶97viii1159**
NEIC VIII 08 19 53 49.4 15.50N 147.99E 33 4.2b
EIDC VIII 08 19 53 50.7 15.6N 148.2E 32 3.9b,3.4s
ISC VIII 11 13 35 54.3±.79 **17.20N**±.085 **147.5E**±.21 **33 3.9b 13 21-146**
NEIC VIII 11 13 35 54.3 17.20N 147.53E 33 4.2b **¶97viii1572**
EIDC VIII 11 13 35 56.9 17.2N 147.4E 33 3.7b
NEIC Less reliable solution.
ISC VIII 12 23 39 31.5±.81 **16.65N**±.087 **147.3E**±.21 **33 3.9b**,3.2s **17 21-146**
EIDC VIII 12 23 39 29.1 16.6N 147.2E 0 4.0b,3.6s **¶97viii1825**
NEIC VIII 12 23 39 31.5 16.65N 147.33E 33 3.7b
NEIC Less reliable solution.
EIDC VIII 13 20 42 03.2 19.3N 142.8E 437 2.8b 22-85 ¶97viii1954
EIDC VIII 18 12 34 23.2 18.3N 147.6E 0 3.2b 40-63 ¶97viii2680
ISC VIII 20 21 28 43±3.4 **21.6N**±.12 **143.3E**±.55 **263**±37 **3.4b 12 16-146**
NEIC VIII 20 21 28 41.8 21.59N 143.14E 250 3.7b **¶97viii3018**
EIDC VIII 20 21 28 47.1 21.6N 143.1E 289 3.2b
NEIC Less reliable solution.
ISC VIII 23 05 40 59.0±.71 **14.64N**±.069 **147.1E**±.11 **20 4.3b**,4.3s **32 2-146**
BJI VIII 23 05 40 58.1 14.85N 146.97E 5 4.7b **¶97viii3344**
EIDC VIII 23 05 40 58.5 14.7N 146.9E 0 4.1b
NEIC VIII 23 05 40 59.0 14.67N 147.08E 20 4.4b
ISC VIII 27 20 07 16.0±.78 **21.65N**±.053 **142.87E**±.090 **323**±8.9 **3.9b 46 5-150**
NEIC VIII 27 20 07 16.0 21.65N 142.87E 325 4.2b **¶97viii4031**
BJI VIII 27 20 07 16.9 21.81N 143.11E 346 4.4b
EIDC VIII 27 20 07 17.0 21.6N 143.0E 321 3.6b
EIDC VIII 29 09 13 48.4 14.0N 142.4E 0 3.7b 27-50 ¶97viii4263
ISC VIII 29 14 59 46±2.3 **14.3N**±.13 **143.5E**±.89 **24 3.7b 7 22-46**
EIDC VIII 29 14 59 47.6 14.4N 143.6E 24 3.7b **¶97viii4331**
EIDC VIII 29 15 21 34.0 14.5N 147.2E 0 3.7b 29-52 ¶97viii4335
ISC VIII 29 17 48 42±4.3 **15.0N**±.25 **147.5E**±.85 **22 3.5b 4 28-47**
EIDC VIII 29 17 48 43.8 15.0N 147.5E 22 3.5b **¶97viii4356**
ISC Poorly determined
ISC VIII 30 01 38 49±1.0 **14.5N**±.11 **143.4E**±.40 **33 3.8b 7 27-90**
EIDC VIII 30 01 38 46.1 14.5N 143.5E 0 3.8b **¶97viii4406**
NEIC VIII 30 01 38 48.7 14.55N 143.46E 33
NEIC Poor solution.
EIDC IX 01 13 25 37.5 14.2N 141.8E 0 3.6b ¶97ix0107
ISC IX 05 04 20 02.3±.68 **14.60N**±.098 **147.3E**±.19 **33 4.0b 18 29-146**
NEIC IX 05 04 20 02.4 14.61N 147.28E 33 3.9b **¶97ix0691**
EIDC IX 05 04 20 04.5 14.6N 147.2E 31 3.7b
NEIC Less reliable solution.
ISC IX 08 17 28 29±2.0 **18.2N**±.13 **147.7E**±.50 **33 3.8b 9 5-88**
EIDC IX 08 17 28 21.7 18.3N 149.4E 0 3.7b,2.8s **¶97ix1254**
ISC IX 12 19 53 01.7±.93 **21.58N**±.044 **143.11E**±.078 **314**±9.6 **4.0b 134 6-150**
BJI IX 12 19 53 00.2 21.44N 143.23E 322 4.4b **¶97ix1867**
NEIC IX 12 19 53 00.2 21.62N 143.10E 300 4.1b
EIDC IX 12 19 53 03.9 21.6N 143.0E 318 3.7b
JMA IX 12 19 53 04.2±.4 21.79N±.03 143.15E±.04 337±3
NEIC Less reliable solution.
ISC IX 17 18 10 51±1.3 **21.84N**±.051 **143.2E**±.10 **287**±14 **3.8b 95 13-150**
NEIC IX 17 18 10 48.2 21.83N 143.03E 250 4.2b **¶97ix2543**
JMA IX 17 18 10 51.1±.6 21.81N±.05 143.59E±.05 334
EIDC IX 17 18 10 52.5 21.8N 142.9E 275 3.5b
NEIC Less reliable solution.
ISC IX 22 14 09 50±1.4 **14.9N**±.23 **147.8E**±.20 **33 3.3b 5 3-66**
EIDC IX 22 14 09 47.3 14.8N 148.0E 0 3.4b **¶97ix3291**
EIDC X 05 06 01 55.9 16.2N 148.0E 0 3.5b ¶97x0813
EIDC X 11 11 12 24.3 14.7N 147.3E 0 3.5b ¶97x1886
ISC X 15 00 25 01±1.8 **21.7N**±.19 **144.3E**±.42 **200 3.7b 5 21-84**
EIDC X 15 00 24 59.9 21.7N 144.5E 179 3.5b **¶97x2519**
ISC X 18 18 05 48±4.7 **21.5N**±.12 **143.3E**±.26 **361**±49 **3.2b 11 16-89**
EIDC X 18 18 05 53.1 21.5N 143.3E 401 2.8b **¶97x3209**
ISC X 19 20 13 09±2.1 **21.55N**±.067 **143.1E**±.13 **291**±21 **3.8b 36 12-150**
NEIC X 19 20 13 10.1 21.56N 143.10E 300 4.0b **¶97x3389**
EIDC X 19 20 13 10.1 21.6N 143.2E 283 3.6b
ISC X 22 11 22 20.3±.87 **21.65N**±.046 **143.1E**±.14 **323**±11 **3.6b 38 8-146**
EIDC X 22 11 22 14.5 21.7N 143.3E 247 3.5b **¶97x3799**
NEIC X 22 11 22 18.2 21.73N 143.03E 300 3.7b
NEIC Less reliable solution.
ISC X 23 10 12 26.8±.72 **21.60N**±.036 **142.84E**±.064 **312**±7.7 **4.4b 124 8-146**
BJI X 23 10 12 25.5 21.60N 142.80E 300 3.8b **¶97x3967**
NEIC X 23 10 12 25.5 21.64N 142.82E 300 4.6b
EIDC X 23 10 12 27.0 21.6N 143.1E 307 4.0b
ISC X 23 12 16 38±4.1 **21.64N**±.088 **143.4E**±.24 **282**±42 **3.3b 14 16-83**
NEIC X 23 12 16 37.1 21.62N 143.37E 269 3.5b **¶97x3991**
EIDC X 23 12 16 42.0 21.7N 143.3E 304 3.2b
NEIC Less reliable solution.
ISC X 24 03 44 44±1.1 **15.4N**±.16 **147.4E**±.30 **33 4.0b 7 37-145**
EIDC X 24 03 44 41.3 15.4N 147.4E 0 4.0b **¶97x4104**
EIDC X 24 15 03 26.3 21.3N 144.0E 0 3.7b ¶97x4187
ISC X 28 04 44 01.6±.88 **21.9N**±.11 **143.6E**±.46 **200 3.4b 9 43-146**
NEIC X 28 04 44 01.6 21.93N 143.63E 200 3.4b **¶97x4708**
EIDC X 28 04 44 04.9 22.0N 143.4E 211 3.3b
NEIC Poor solution.
EIDC XI 05 06 15 04.4 22.0N 142.7E 0 3.8b ¶97xi0743
EIDC LO CONF
ISC XI 06 04 38 10±1.1 **21.6N**±.14 **143.5E**±.37 **300 3.4b 6 21-83**
EIDC XI 06 04 38 11.4 21.6N 143.4E 296 3.1b **¶97xi0923**
ISC XI 08 22 05 06.8±.83 **21.6N**±.12 **143.2E**±.21 **300 3.3b 12 21-84**
NEIC XI 08 22 05 06.6 21.63N 143.25E 300 **¶97xi1358**
EIDC XI 08 22 05 09.1 21.6N 143.2E 305 3.0b
NEIC Poor solution.
ISC XI 10 05 22 05±1.0 **21.8N**±.16 **143.9E**±.28 **150 3.6b 10 21-149**
EIDC XI 10 05 22 07.3 21.8N 144.1E 159 3.5b **¶97xi1564**
ISC XI 10 17 48 19±1.5 **19.1N**±.13 **146.9E**±.37 **33 3.9b 8 25-87**
EIDC XI 10 17 48 15.8 19.2N 147.0E 0 4.0b **¶97xi1653**
ISC XI 12 21 04 15±1.7 **19.47N**±.048 **146.74E**±.069 **69**±16 **4.5b 76 6-147**
EIDC XI 12 21 04 08.1 19.6N 146.8E 0 4.5b,4.4s **¶97xi2035**
NEIC XI 12 21 04 11.5 19.56N 146.74E 33 4.7b,4.5s
BJI XI 12 21 04 13.9 20.08N 146.37E 16 4.9b,4.6s
ISC XI 14 04 32 48±1.7 **19.0N**±.11 **149.7E**±.43 **33 4.4b 10 20-88**
EIDC XI 14 04 32 44.7 19.0N 149.9E 0 4.3b,5.0L **¶97xi2238**
NEIC XI 14 04 32 46.9 19.05N 149.98E 33 4.6b
NEIC Poor solution.
ISC XI 16 07 10 18±1.3 **15.9N**±.12 **148.1E**±.19 **33 4.0b 14 4-145**
NEIC XI 16 07 10 18.7 15.89N 148.02E 33 **¶97xi2611**
EIDC XI 16 07 10 24.1 16.0N 148.0E 59 3.8b
NEIC Less reliable solution.
EIDC XI 16 08 46 28.3 15.9N 148.1E 0 3.6b **¶97xi2621**
EIDC LO CONF Location
ISC XI 16 14 48 53.7±.63 **19.52N**±.074 **146.7E**±.14 **33 4.2b,3.8s 23 18-147**
EIDC XI 16 14 48 49.7 19.6N 147.0E 0 4.0b,3.8s **¶97xi2659**
BJI XI 16 14 48 52.6 19.60N 146.96E 36 4.8b
NEIC XI 16 14 48 53.9 19.51N 146.59E 33 4.2b,4.3s
NEIC Less reliable solution.
ISC XI 17 17 47 10.8±.88 **19.59N**±.092 **147.0E**±.24 **33 4.0b**,2.9s **12 24-87**
BJI XI 17 17 47 07.0 19.60N 147.00E 33 4.6b **¶97xi2841**
EIDC XI 17 17 47 07.9 19.6N 146.9E 0 4.0b,2.9s
NEIC XI 17 17 47 10.7 19.59N 147.02E 33 3.8b
NEIC Less reliable solution.
ISC XI 18 21 52 06.6±.40 **19.63N**±.050 **146.86E**±.093 **33 4.4b,4.3s 44 6-147**
EIDC XI 18 21 52 03.5 19.7N 146.9E 0 4.3b,4.3s **¶97xi3070**
NEIC XI 18 21 52 06.5 19.66N 146.84E 33 4.5b,4.3s
BJI XI 18 21 52 07.1 19.73N 146.89E 36 4.9b,4.7s
ISC XI 18 23 09 34±1.5 **19.4N**±.15 **147.1E**±.28 **33 3.7b**,3.2s **5 19-62**
EIDC XI 18 23 09 31.5 19.4N 147.0E 0 3.7b,3.2s **¶97xi3083**
ISC XI 19 23 53 21.6±.62 **19.56N**±.079 **146.7E**±.15 **33 4.1b,3.7s 21 18-147**
EIDC XI 19 23 53 18.4 19.6N 146.7E 0 4.0b,3.8s **¶97xi3342**
NEIC XI 19 23 53 21.5 19.57N 146.61E 33 4.9b
BJI XI 19 23 53 21.9 19.57N 146.60E 33 4.8b
NEIC Less reliable solution.
ISC XI 20 16 26 26.0±.77 **21.6N**±.13 **143.3E**±.20 **300 3.4b 9 21-93**
NEIC XI 20 16 26 25.9 21.58N 143.35E 300 **¶97xi3493**
EIDC XI 20 16 26 27.5 21.6N 143.3E 301 3.2b
NEIC Less reliable solution.
ISC XI 22 22 04 04±4.0 **21.55N**±.087 **143.2E**±.20 **274**±40 **3.6b 20 16-150**
NEIC XI 22 22 04 06.7 21.57N 143.16E 300 3.8b **¶97xi3971**
EIDC XI 22 22 04 07.9 21.6N 143.2E 295 3.4b
NEIC Less reliable solution.
ISC XI 25 08 51 13.5±.79 **21.6N**±.11 **143.0E**±.29 **300 3.3b 11 20-150**
NEIC XI 25 08 51 13.5 21.65N 142.98E 300 3.2b **¶97xi4474**
EIDC XI 25 08 51 16.5 21.6N 142.8E 312 3.0b
NEIC Poor solution.
EIDC XI 27 07 05 25.0 15.4N 144.6E 0 3.7b,3.3s **¶97xi4819**
ISC XII 02 20 22 24±2.6 **18.6N**±.19 **147.6E**±.80 **33 3.8b 6 26-88**
EIDC XII 02 20 22 19.8±2.92 18.6N 147.8E 0 3.7b **¶97xii0307**
EIDC Error ellipse is semi−major=126.3km semi−minor=23.6km azimuth=81
EIDC XII 03 15 12 19.3±8.10 **19.2N 143.9E 0 3.9b 40-86 ¶97xii0451**
EIDC Error ellipse is semi−major=609.7km semi−minor=26.7km azimuth=90
ISC XII 18 03 38 43±1.8 **21.67N**±.059 **143.11E**±.085 **289**±18 **4.0b 56 12-146**
BJI XII 18 03 38 43.8 21.70N 143.00E 300 4.1b **¶97xii3706**
NEIC XII 18 03 38 43.8 21.69N 143.00E 300 4.2b
EIDC XII 18 03 38 44.0±1.87 21.7N 143.2E 289±16.8 3.8b
EIDC Error ellipse is semi−major=21.7km semi−minor=10.7km azimuth=94
EIDC XII 25 10 01 42.8±5.02 **19.5N 143.4E 0 3.8b 22-85 ¶97xii4906**
EIDC Error ellipse is semi−major=152.1km semi−minor=49.0km azimuth=26
ISC XII 26 20 57 20±3.1 **21.60N**±.094 **142.1E**±.38 **281**±31 **3.4b 13 15-89**
NEIC XII 26 20 57 18.9 21.59N 142.19E 267 3.4b **¶97xii5196**
EIDC XII 26 20 57 21.8±3.32 21.7N 143.0E 301±32.9 3.3b
NEIC Poor solution.
EIDC Error ellipse is semi−major=52.3km semi−minor=17.0km azimuth=87

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
		(216) Marianas.					
ISC	**VII 01 11 42 49**±1.5	**18.83N**±.045	**146.94E**±.086	**38**±14	**4.4b,4.2s**	**59**	**6-147**
BJI	VII 01 11 42 47.8	18.89N	147.21E	37	4.7b,4.6s		¶97vii0079
NEIC	VII 01 11 42 48.2	18.84N	146.94E	33	4.6b,4.2s		
EIDC	VII 01 11 42 51.2	18.8N	147.0E	46	3.9b,4.1s		
ISC	**VII 06 05 58 03**±1.0	**19.7N**±.23	**145.1E**±.64	**33**	**3.6b**	**5**	**41-86**
EIDC	VII 06 05 57 59.6	19.7N	145.1E	0	3.7b		¶97vii0846
ISC	**VII 12 02 37 41**±1.6	**19.04N**±.086	**145.1E**±.24	**632**±22	**3.7b**	**16**	**8-148**
NEIC	VII 12 02 37 38.9	19.03N	145.27E	600	3.8b		¶97vii1764
EIDC	VII 12 02 37 41.2	19.0N	145.3E	611	3.1b		
NEIC	Less reliable solution.						
ISC	**VII 14 10 52 37**±1.9	**18.4N**±.11	**145.3E**±.22	**117**±18	**4.1b**	**26**	**5-94**
EIDC	VII 14 10 52 24.0	18.4N	145.6E	0	4.0b		¶97vii2109
NEIC	VII 14 10 52 37.4	18.33N	145.35E	122	4.2b		
NEIC	Less reliable solution.						
ISC	**VII 17 15 42 08.4**±.84	**18.17N**±.037	**145.60E**±.050	**218**±8.3	**4.5b**	**115**	**5-167**
BJI	VII 17 15 42 06.7	18.31N	145.97E	220	4.5b		¶97vii2610
NEIC	VII 17 15 42 08.5	18.18N	145.62E	221	4.6b		
EIDC	VII 17 15 42 10.4	18.2N	145.6E	230	4.2b		
ISC	**VII 19 18 09 28.3**±.47	**18.83N**±.072	**147.0E**±.10	**26**	**4.1b**,4.3s	**33**	**19-156**
BJI	VII 19 18 09 27.2	18.87N	147.44E	29	4.5b,4.4s		¶97vii2932
NEIC	VII 19 18 09 27.7	18.81N	147.01E	26	3.9b		
EIDC	VII 19 18 09 29.3	18.8N	147.2E	27	3.9b,3.8L		
NEIC	Less reliable solution.						
ISC	**VII 22 09 50 57.0**±.58	**13.73N**±.085	**144.9E**±.17	**122**±5.4	**4.1b**	**27**	**0-144**
NEIC	VII 22 09 50 56.4	13.71N	144.92E	118	4.2b		¶97vii3353
EIDC	VII 22 09 50 58.5	13.7N	145.4E	131	3.8b		
NEIC	Less reliable solution.						
NEIC	Felt on Guam (after GUMO)						
ISC	**VII 26 18 43 25.6**±.91	**18.54N**±.028	**146.01E**±.048	**101**±8.7	**4.9b**	**168**	**3-157**
BJI	VII 26 18 43 22.6	18.69N	146.56E	92	4.7b		¶97vii3994
NEIC	VII 26 18 43 24.4	18.64N	145.86E	89	5.1b		
MOS	VII 26 18 43 24.6	18.7N	146.0E	90	5.1b		
EIDC	VII 26 18 43 25.6	18.6N	145.9E	92	4.4b,3.9s		
NEIC	Felt strongly on Agrihan.						
ISC	**VII 28 10 55 51**±1.1	**13.8N**±.22	**145.2E**±.58	**200**	**2.9b**	**7**	**0-68**
EIDC	VII 28 10 55 30.4	13.7N	145.9E	0	3.3b		¶97vii4257
ISC	**VII 29 01 18 20**±1.1	**13.0N**±.13	**144.6E**±.22	**60**±10	**4.0b**	**18**	**1-156**
EIDC	VII 29 01 18 18.0	13.0N	144.8E	37	3.8b		¶97vii4358
NEIC	VII 29 01 18 19.5	13.05N	144.97E	75	4.5b		
NEIC	Poor solution.						
ISC	**VII 29 17 26 20**±1.1	**19.01N**±.060	**145.6E**±.25	**254**±11	**3.6b**	**19**	**5-78**
EIDC	VII 29 17 26 17.0	18.9N	145.7E	203	3.4b		¶97vii4456
NEIC	VII 29 17 26 19.6	19.02N	145.64E	253	4.2b		
NEIC	Less reliable solution.						
ISC	**VIII 01 03 33 06**±3.5	**19.4N**±.11	**145.6E**±.30	**182**±33	**3.8b**	**11**	**8-87**
NEIC	VIII 01 03 33 06.2	19.37N	145.56E	183	4.2b		¶97viii0021
EIDC	VIII 01 03 33 06.5	19.4N	145.5E	171	3.4b		
NEIC	Less reliable solution.						
ISC	**VIII 01 13 43 09.7**±.77	**18.0N**±.12	**145.4E**±.22	**400**	**3.7b**	**9**	**39-87**
EIDC	VIII 01 13 43 07.1	18.0N	145.5E	360	3.3b		¶97viii0070
ISC	**VIII 08 13 31 29**±2.5	**14.7N**±.17	**145.7E**±.56	**33**	**3.3b**	**4**	**23-45**
EIDC	VIII 08 13 31 25.3	14.7N	145.9E	0	3.3b		¶97viii1120
ISC	Poorly determined						
ISC	**VIII 11 05 20 45.1**±.89	**18.70N**±.032	**145.85E**±.055	**168**±8.5	**4.9b**	**187**	**3-166**
BJI	VIII 11 05 20 43.1	18.93N	146.19E	162	4.5b		¶97viii1508
NEIC	VIII 11 05 20 43.8	18.79N	145.82E	156	5.1b		
MOS	VIII 11 05 20 43.9	18.8N	145.9E	162	5.2b		
EIDC	VIII 11 05 20 46.4	18.8N	146.0E	170	4.4b		
NEIC	Felt on Saipan.						
ISC	**VIII 11 17 54 13**±1.2	**18.4N**±.14	**145.8E**±.48	**33**	**3.6b**	**5**	**19-87**
EIDC	VIII 11 17 54 27.3	18.4N	145.3E	149	3.2b,3.7L		¶97viii1600
ISC	**VIII 13 11 10 45**±1.0	**13.0N**±.13	**144.2E**±.28	**33**	**3.4b**	**7**	**24-91**
EIDC	VIII 13 11 10 44.2	13.0N	143.8E	0	3.5b		¶97viii1895
NEIC	VIII 13 11 10 44.3	13.04N	144.28E	33			
NEIC	Poor solution.						
ISC	**VIII 14 04 45 26**±1.1	**18.8N**±.13	**146.5E**±.36	**33**	**3.8b**	**6**	**25-87**
EIDC	VIII 14 04 45 23.0	18.8N	146.5E	0	3.8b		¶97viii2004
NEIC	VIII 14 04 45 25.9	18.80N	146.52E	33			
NEIC	Poor solution.						
ISC	**VIII 16 13 47 42.7**±.79	**18.4N**±.11	**145.2E**±.25	**300**	**3.6b**	**11**	**19-88**
NEIC	VIII 16 13 47 42.6	18.41N	145.16E	300	3.8b		¶97viii2376
EIDC	VIII 16 13 47 44.5	18.7N	145.3E	284	3.2b		
NEIC	Less reliable solution.						
ISC	**VIII 17 07 11 09**±2.5	**18.6N**±.11	**145.4E**±.25	**616**±32	**3.6b**	**15**	**19-88**
NEIC	VIII 17 07 11 07.3	18.61N	145.49E	600			¶97viii2507
EIDC	VIII 17 07 11 10.3	18.6N	145.5E	623	3.4b		
NEIC	Less reliable solution.						
ISC	**VIII 19 16 09 54.9**±.75	**13.42N**±.097	**144.8E**±.35	**107**±8.5	**3.9b**	**14**	**0-148**
EIDC	VIII 19 16 09 44.8	13.4N	144.8E	0	4.0b		¶97viii2831
NEIC	VIII 19 16 09 54.4	13.42N	144.81E	101			
NEIC	Less reliable solution.						
NEIC	Felt I=III MM at Andersen Air Force Base, Guam.						
ISC	**VIII 21 19 31 33**±1.9	**15.0N**±.20	**147.0E**±.28	**33**	**3.6b**	**12**	**2-145**
NEIC	VIII 21 19 31 32.5	15.01N	147.01E	33			¶97viii3131
EIDC	VIII 21 19 31 54.4	15.9N	146.7E	167	3.2b		
NEIC	Less reliable solution.						
ISC	**VIII 24 06 07 03**±1.7	**17.8N**±.11	**145.7E**±.22	**209**±16	**3.7b**	**14**	**4-148**
NEIC	VIII 24 06 07 02.4	17.87N	145.68E	208	3.5b		¶97viii3487
EIDC	VIII 24 06 07 16.7	17.7N	145.6E	338	3.2b		
NEIC	Less reliable solution.						
ISC	**VIII 26 07 53 06.6**±.86	**18.61N**±.040	**145.24E**±.061	**276**±9.1	**4.4b**	**107**	**5-148**
BJI	VIII 26 07 53 08.5	18.60N	145.10E	300	4.5b		¶97viii3808
NEIC	VIII 26 07 53 08.5	18.61N	145.14E	300	4.5b		
EIDC	VIII 26 07 53 13.8	18.7N	145.2E	343	3.9b		
ISC	**VIII 29 09 02 57**±7.6	**14.5N**±.12	**145.5E**±.30	**13**±43	**4.0b**	**10**	**1-67**
EIDC	VIII 29 09 02 56.5	14.6N	145.5E	0	4.0b		¶97viii4260
NEIC	VIII 29 09 02 59.6	14.51N	145.40E	33	4.2b		
NEIC	Less reliable solution.						
ISC	**VIII 29 09 17 14**±1.4	**14.5N**±.12	**145.1E**±.29	**36**±14	**4.1b**	**13**	**1-68**
EIDC	VIII 29 09 17 10.1	14.5N	145.6E	0	4.3b		¶97viii4264
NEIC	VIII 29 09 17 13.7	14.54N	145.08E	33	4.1b		
NEIC	Less reliable solution.						
ISC	**VIII 29 09 47 47**±1.0	**14.3N**±.10	**144.1E**±.40	**33**	**3.6b**	**7**	**23-68**
EIDC	VIII 29 09 47 44.1	14.3N	144.2E	0	3.8b		¶97viii4270
ISC	**VIII 29 10 22 10**±1.7	**14.61N**±.066	**144.9E**±.15	**20**±13	**4.3b**,4.9s	**29**	**1-148**
EIDC	VIII 29 10 22 08.0	14.6N	145.1E	0	4.2b		¶97viii4276
BJI	VIII 29 10 22 12.1	14.60N	144.80E	33	4.7b,5.0s		
NEIC	VIII 29 10 22 12.1	14.58N	144.80E	33	4.2b		
ISC	**VIII 29 11 03 17.4**±.67	**14.51N**±.057	**145.0E**±.17	**33**	**4.2b**	**25**	**1-96**
EIDC	VIII 29 11 03 13.5	14.5N	145.4E	0	4.2b		¶97viii4282
BJI	VIII 29 11 03 17.4	14.50N	145.20E	33	4.6b		
NEIC	VIII 29 11 03 17.4	14.51N	145.22E	33	4.3b		
NEIC	Less reliable solution.						
EIDC	**VIII 29 11 09 40.8**	**14.6N**	**146.4E**	**0**	**3.6b**		**28-40**
							¶97viii4283
ISC	**VIII 29 11 41 50.3**±.99	**14.50N**±.089	**145.8E**±.31	**33**	**3.9b**	**10**	**23-67**
EIDC	VIII 29 11 41 47.0	14.5N	145.8E	0	3.9b		¶97viii4294
NEIC	VIII 29 11 41 50.2	14.50N	145.78E	33	4.2b		
NEIC	Poor solution.						
ISC	**VIII 29 11 49 37**±1.3	**14.6N**±.15	**145.6E**±.30	**33**	**3.4b**	**5**	**28-67**
EIDC	VIII 29 11 49 33.6	14.6N	145.6E	0	3.5b		¶97viii4297
ISC	**VIII 29 12 36 02.4**±.58	**14.62N**±.053	**145.4E**±.14	**33**	**4.3b,4.0s**	**29**	**1-148**
EIDC	VIII 29 12 35 58.0	14.7N	145.5E	0	4.2b,3.9s		¶97viii4303
BJI	VIII 29 12 36 02.8	14.60N	145.10E	33	4.8b		
NEIC	VIII 29 12 36 02.8	14.64N	145.06E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**VIII 29 12 59 29.0**±.95	**14.04N**±.098	**144.4E**±.26	**33**	**3.7b**	**9**	**23-68**
EIDC	VIII 29 12 59 26.0	14.1N	144.4E	0	3.7b		¶97viii4308
NEIC	VIII 29 12 59 28.9	14.04N	144.44E	33	3.7b		
NEIC	Less reliable solution.						
ISC	**VIII 29 13 11 03**±1.0	**14.15N**±.099	**144.7E**±.26	**33**	**3.8b**	**9**	**28-68**
EIDC	VIII 29 13 10 59.8	14.2N	144.7E	0	3.9b		¶97viii4309
NEIC	VIII 29 13 11 02.6	14.15N	144.69E	33	3.8b		
NEIC	Less reliable solution.						
ISC	**VIII 29 13 17 50.1**±.65	**14.55N**±.065	**145.0E**±.13	**33**	**4.0b**,3.4s	**15**	**1-148**
EIDC	VIII 29 13 17 45.6	14.7N	145.2E	0	3.9b,3.4s		¶97viii4312
BJI	VIII 29 13 17 49.5	14.60N	144.90E	33	4.6b		
NEIC	VIII 29 13 17 49.5	14.62N	144.91E	33			
NEIC	Less reliable solution.						
ISC	**VIII 29 13 35 57.7**±.97	**14.86N**±.094	**145.3E**±.22	**33**	**4.0b,3.7s**	**13**	**22-67**
EIDC	VIII 29 13 35 54.8	14.9N	145.2E	0	3.9b,3.6s		¶97viii4316
BJI	VIII 29 13 35 57.7	14.90N	145.20E	33	4.8b		
NEIC	VIII 29 13 35 57.7	14.88N	145.18E	33	4.5b		
NEIC	Poor solution.						
ISC	**VIII 29 14 12 01.7**±.61	**14.59N**±.072	**145.3E**±.15	**33**	**4.3b,4.2s**	**24**	**23-148**
EIDC	VIII 29 14 11 58.1	14.6N	145.3E	0	4.3b,3.9s		¶97viii4321
BJI	VIII 29 14 12 01.7	14.60N	145.20E	33	4.6b		
NEIC	VIII 29 14 12 01.7	14.61N	145.21E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**VIII 29 14 24 04**±1.1	**14.8N**±.12	**144.9E**±.29	**33**	**3.7b**	**7**	**27-67**
EIDC	VIII 29 14 24 00.4	14.9N	144.9E	0	3.8b		¶97viii4322
NEIC	VIII 29 14 24 03.4	14.91N	144.85E	33			
NEIC	Poor solution.						
ISC	**VIII 29 14 30 47**±1.3	**14.62N**±.038	**144.90E**±.069	**20**±9.5	**4.6b,4.5s**	**88**	**1-148**
EIDC	VIII 29 14 30 44.5	14.6N	145.1E	0	4.5b,4.5s		¶97viii4323
NEIC	VIII 29 14 30 48.5	14.64N	144.93E	33	4.7b,4.6s		
BJI	VIII 29 14 30 57.2	15.26N	144.03E	33	4.9b,4.7s		
EIDC	**VIII 29 14 53 47.4**	**17.0N**	**145.5E**	**0**	**3.6b**		**26-42**
							¶97viii4330
ISC	**VIII 29 15 03 05.0**±.58	**14.74N**±.065	**145.3E**±.17	**25**	**4.3b**,4.4s	**28**	**23-148**
BJI	VIII 29 15 03 05.5	14.70N	145.10E	25	4.7b,4.7s		¶97viii4332
NEIC	VIII 29 15 03 05.5	14.73N	145.10E	25	4.5b		
EIDC	VIII 29 15 03 06.5	14.7N	145.3E	25	4.0b		
NEIC	Less reliable solution.						
ISC	**VIII 29 15 12 33**±1.5	**14.67N**±.041	**145.08E**±.089	**18**±11	**4.6b,4.4s**	**69**	**1-148**
EIDC	VIII 29 15 12 31.2	14.6N	145.1E	0	4.5b,4.3s		¶97viii4333
MOS	VIII 29 15 12 33.0	14.6N	145.6E	33	5.4b		
BJI	VIII 29 15 12 34.9	14.70N	144.80E	33	5.0b,4.5s		
NEIC	VIII 29 15 12 34.9	14.70N	144.81E	33	4.7b		
ISC	**VIII 29 15 25 27**±2.0	**14.60N**±.081	**145.1E**±.23	**36**±19	**4.0b**,3.6s	**16**	**1-90**
EIDC	VIII 29 15 25 23.4	14.6N	145.2E	0	4.0b,3.6s		¶97viii4336
NEIC	VIII 29 15 25 26.6	14.60N	145.14E	33	4.0b		
NEIC	Less reliable solution.						
ISC	**VIII 29 15 32 53**±1.0	**14.7N**±.12	**145.1E**±.27	**31**	**3.5b**	**7**	**27-67**
EIDC	VIII 29 15 32 54.8	14.7N	145.0E	31	3.4b		¶97viii4338
EIDC	**VIII 29 15 52 44.1**	**14.6N**	**144.2E**	**25**	**3.3b**		**27-51**
							¶97viii4340
ISC	**VIII 29 16 01 44.3**±.91	**14.65N**±.094	**145.5E**±.26	**26**	**3.8b**,3.4s	**12**	**28-148**
NEIC	VIII 29 16 01 44.3	14.64N	145.48E	26	3.8b		¶97viii4343
EIDC	VIII 29 16 01 46.4	14.7N	145.4E	24	3.7b,3.4s		
NEIC	Less reliable solution.						
ISC	**VIII 29 16 24 57.3**±.35	**14.60N**±.040	**145.27E**±.086	**33**	**4.4b,4.2s**	**55**	**1-148**
EIDC	VIII 29 16 24 53.5	14.6N	145.4E	0	4.3b,4.1s		¶97viii4347
NEIC	VIII 29 16 24 57.1	14.65N	145.14E	33	4.6b,4.2s		
BJI	VIII 29 16 25 00.2	15.30N	144.59E	5	4.9b,4.6s		
ISC	**VIII 29 16 58 01**±1.0	**14.5N**±.12	**144.1E**±.37	**26**	**3.7b**	**7**	**27-92**
EIDC	VIII 29 16 58 03.1	14.5N	144.3E	26	3.7b		¶97viii4349
ISC	**VIII 29 17 52 57**±1.3	**14.63N**±.066	**145.0E**±.14	**44**±14	**4.0b**,3.6s	**20**	**1-90**
NEIC	VIII 29 17 52 55.2	14.66N	144.89E	27	4.0b		¶97viii4357
EIDC	VIII 29 17 52 56.4	14.7N	145.1E	26	3.8b,3.6s		
ISC	**VIII 29 18 36 15**±2.5	**14.6N**±.16	**144.7E**±.97	**19**	**3.7b**	**6**	**27-90**
EIDC	VIII 29 18 36 16.3	14.6N	144.8E	19	3.6b		¶97viii4360
ISC	**VIII 29 18 42 27**±2.4	**14.6N**±.14	**144.3E**±.93	**22**	**3.7b**	**7**	**27-90**
EIDC	VIII 29 18 42 28.3	14.6N	144.5E	22	3.6b		¶97viii4362
EIDC	**VIII 29 19 00 14.5**	**14.3N**	**145.8E**	**0**	**4.1b**		**28-91**
							¶97viii4365
ISC	**VIII 29 19 12 52**±1.1	**14.6N**±.12	**145.4E**±.39	**27**	**3.6b**	**6**	**28-67**
EIDC	VIII 29 19 12 53.8	14.6N	145.4E	27	3.6b		¶97viii4366
ISC	**VIII 29 19 37 34**±1.0	**14.5N**±.11	**145.4E**±.41	**29**	**3.7b**	**7**	**23-67**
EIDC	VIII 29 19 37 36.0	14.6N	145.3E	29	3.6b		¶97viii4368
ISC	**VIII 29 19 58 47.3**±.67	**13.66N**±.084	**144.9E**±.26	**143**±7.1	**3.8b**	**15**	**0-148**
EIDC	VIII 29 19 58 31.7	13.7N	145.6E	0	4.0b		¶97viii4373
NEIC	VIII 29 19 58 46.5	13.68N	145.04E	137	3.8b		
NEIC	Less reliable solution.						
EIDC	**VIII 29 22 22 24.6**	**14.9N**	**146.8E**	**27**	**3.3b**		**23-40**
							¶97viii4386
ISC	**VIII 29 22 41 52**±1.1	**14.7N**±.13	**145.7E**±.28	**33**	**3.8b**,3.7s	**7**	**28-90**
EIDC	VIII 29 22 41 48.4	14.7N	145.8E	0	3.9b,3.7s		¶97viii4388
ISC	**VIII 29 23 06 01**±1.6	**14.6N**±.12	**144.9E**±.41	**33**	**3.8b**,3.4s	**8**	**27-90**
EIDC	VIII 29 23 06 03.3	14.6N	144.8E	33	3.7b,3.4s		¶97viii4391
EIDC	**VIII 29 23 28 01.6**	**14.7N**	**145.5E**	**0**	**3.9b**		**28-90**
							¶97viii4394
ISC	**VIII 30 02 17 04**±1.1	**14.62N**±.078	**145.0E**±.18	**42**±14	**4.0b**	**21**	**1-148**
NEIC	VIII 30 02 17 03.4	14.66N	144.92E	33	3.9b		¶97viii4409
EIDC	VIII 30 02 17 03.9	14.7N	145.2E	26	3.9b		
NEIC	Less reliable solution.						

ISC	**VIII 30 03 00 13**±1.1	**14.7N**±.12	**145.0E**±.27	**33**	**3.8b**	**8**	**27-90**
EIDC	VIII 30 03 00 09.6	14.7N	145.0E	0	4.0b	**¶97viii4415**	
NEIC	VIII 30 03 00 12.6	14.67N	145.01E	33			
NEIC	Poor solution.						
ISC	**VIII 30 03 10 59**±1.0	**14.6N**±.11	**144.9E**±.28	**33**	**3.7b**	**8**	**27-90**
EIDC	VIII 30 03 10 56.0	14.6N	145.0E	0	3.8b	**¶97viii4416**	
NEIC	VIII 30 03 10 59.1	14.61N	144.96E	33	3.8b		
NEIC	Less reliable solution.						
ISC	**VIII 30 03 28 35**±2.4	**14.65N**±.029	**144.82E**±.042	**33**±17	**4.9b,5.2s**	**227**	**1-168**
BJI	VIII 30 03 28 34.1	14.63N	144.63E	24	5.2b,5.2s	**¶97viii4418**	
NEIC	VIII 30 03 28 34.7	14.70N	144.83E	33	5.0b,5.2s		
MOS	VIII 30 03 28 35.8	14.5N	144.3E	33	5.5b,5.2s		
EIDC	VIII 30 03 28 36.3	14.7N	145.0E	30	4.6b,3.7L		
HRVD	VIII 30 03 28 37.3±.1	14.58N±.01	144.57E±.02	15			
NEIC	Mw5.8(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s50,c103; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}−4.85±.06; $M_{\theta\theta}$4.43±.08; $M_{\phi\phi}$0.42±.10; $M_{r\theta}$1.24±.28; $M_{r\phi}$−1.43±.20; $M_{\theta\phi}$−2.06±.06. Principal Axes: T 5.58,Plg9°,Azm24°; N −0.31, Plg9°,Azm116°; P −5.27,Plg77°,Azm250°. Best double couple: $M_0$5.4×10^{17}Nm, NP1: ϕ_S103°,δ37°,λ−106°. NP2:ϕ_S302°,δ55°,λ−79°.							
ISC	**VIII 30 03 45 18**±1.0	**14.63N**±.098	**144.6E**±.26	**59**±1.7*	**4.0b**	**14**	**23-148**
NEIC	VIII 30 03 45 15.2	14.63N	144.55E	33	4.3b	**¶97viii4421**	
EIDC	VIII 30 03 45 20.0	14.6N	144.5E	61	3.8b		
NEIC	Poor solution.						
ISC	**VIII 30 04 16 22.2**±.73	**14.7N**±.10	**144.9E**±.13	**33**	**4.2b,**3.9s	**19**	**20-148**
EIDC	VIII 30 04 16 19.1	14.7N	145.0E	0	4.1b,3.9s	**¶97viii4427**	
BJI	VIII 30 04 16 21.8	14.70N	144.80E	33	4.3b		
NEIC	VIII 30 04 16 21.8	14.72N	144.85E	33	4.7b		
NEIC	Less reliable solution.						
ISC	**VIII 30 05 24 12**±3.0	**14.68N**±.047	**144.75E**±.068	**13**±19	**4.7b,4.3s**	**74**	**1-148**
EIDC	VIII 30 05 24 11.0	14.7N	144.9E	0	4.5b,4.2s	**¶97viii4431**	
NEIC	VIII 30 05 24 14.5	14.66N	144.65E	33	4.9b,4.5s		
BJI	VIII 30 05 24 14.9	14.97N	144.46E	13	5.0b,4.3s		
HRVD	VIII 30 05 24 18.4±.1	14.28N±.01	144.38E±.02	22±1.2			
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.63±.71; $M_{\theta\theta}$3.07±.92; $M_{\phi\phi}$0.56±1.13; $M_{r\theta}$5.36±3.35; $M_{r\phi}$−4.69±3.38; $M_{\theta\phi}$−1.04±.78. Principal Axes: T 7.67,Plg32°,Azm33°; N 0.54,Plg7°,Azm127°; P −8.21,Plg57°,Azm228°. Best double couple: $M_0$7.9×10^{16}Nm, NP1: ϕ_S98°,δ15°,λ−120°. NP2:ϕ_S309°,δ77°,λ−83°.							
ISC	**VIII 30 05 35 28**±1.2	**14.56N**±.080	**144.9E**±.18	**44**±13	**4.0b**	**19**	**1-148**
EIDC	VIII 30 05 35 21.8	14.7N	145.1E	0	4.0b	**¶97viii4432**	
NEIC	VIII 30 05 35 26.9	14.58N	144.81E	33	4.2b		
NEIC	Less reliable solution.						
ISC	**VIII 30 05 53 13**±1.9	**14.7N**±.11	**144.8E**±.27	**34**±22	**3.8b**	**10**	**1-148**
EIDC	VIII 30 05 53 11.7	14.6N	144.7E	0	3.9b	**¶97viii4435**	
NEIC	VIII 30 05 53 13.3	14.68N	144.82E	33	3.9b		
NEIC	Less reliable solution.						
ISC	**VIII 30 06 29 12**±1.1	**14.59N**±.063	**145.0E**±.14	**38**±13	**4.2b,**3.6s	**24**	**1-148**
EIDC	VIII 30 06 29 07.6	14.7N	145.1E	0	4.2b,3.7s	**¶97viii4444**	
NEIC	VIII 30 06 29 11.5	14.62N	144.85E	33	4.3b		
BJI	VIII 30 06 29 14.6	14.22N	144.64E	46	4.7b		
ISC	**VIII 30 06 59 40**±1.4	**14.61N**±.059	**144.8E**±.17	**34**±13	**4.3b,**3.7s	**35**	**1-148**
EIDC	VIII 30 06 59 35.6	14.7N	145.0E	0	4.3b,3.7s	**¶97viii4452**	
NEIC	VIII 30 06 59 39.2	14.65N	144.88E	33	4.5b		
NEIC	Less reliable solution.						
ISC	**VIII 30 11 09 11**±1.1	**14.63N**±.052	**144.8E**±.12	**36**±12	**4.0b,3.7s**	**36**	**1-148**
NEIC	VIII 30 11 09 10.3	14.66N	144.81E	33	4.3b	**¶97viii4474**	
EIDC	VIII 30 11 09 10.7	14.7N	145.1E	23	3.9b,3.7s		
ISC	**VIII 30 12 51 54**±1.1	**14.8N**±.15	**144.8E**±.33	**23**	**3.7b**	**9**	**22-148**
EIDC	VIII 30 12 51 56.3	14.7N	145.0E	23	3.8b	**¶97viii4483**	
ISC	**VIII 30 13 09 34**±1.2	**14.7N**±.13	**144.7E**±.26	**33**	**3.8b,**4.2s	**9**	**23-90**
NEIC	VIII 30 13 09 33.5	14.68N	144.72E	33		**¶97viii4486**	
EIDC	VIII 30 13 09 33.7	14.8N	144.8E	20	3.6b		
NEIC	Single network solution.						
ISC	**VIII 30 13 30 34.4**±.63	**14.63N**±.066	**144.8E**±.13	**33**	**3.8b**	**12**	**1-90**
NEIC	VIII 30 13 30 34.5	14.62N	144.83E	33		**¶97viii4488**	
EIDC	VIII 30 13 30 35.0	14.6N	144.6E	17	3.8b		
NEIC	Single network solution.						
ISC	**VIII 30 13 38 12**±1.7	**14.61N**±.095	**144.8E**±.20	**33**±21	**3.8b**	**15**	**1-148**
NEIC	VIII 30 13 38 11.9	14.62N	144.79E	33		**¶97viii4491**	
EIDC	VIII 30 13 38 12.2	14.6N	144.8E	19	3.7b		
NEIC	Less reliable solution.						
ISC	**VIII 30 13 54 35**±5.8	**14.62N**±.084	**145.5E**±.22	**11**±34	**4.2b,**3.5s	**28**	**1-148**
NEIC	VIII 30 13 54 38.9	14.61N	145.02E	33	4.5b	**¶97viii4494**	
EIDC	VIII 30 13 54 39.0	14.6N	145.0E	22	4.0b,3.7s		
BJI	VIII 30 13 54 39.1	15.04N	145.00E	9	4.6b		
NEIC	Less reliable solution.						
ISC	**VIII 30 15 18 22**±4.3	**14.63N**±.075	**144.8E**±.15	**24**±36	**4.1b,3.6s**	**19**	**1-148**
NEIC	VIII 30 15 18 23.2	14.62N	144.83E	33	4.2b	**¶97viii4505**	
EIDC	VIII 30 15 18 23.8	14.7N	144.8E	21	3.7s,3.9b		
BJI	VIII 30 15 18 29.8	14.53N	143.95E	51	4.9b		
ISC	**VIII 30 16 10 53**±1.0	**14.68N**±.045	**144.99E**±.093	**19**±8.5	**4.3b**	**44**	**1-148**
BJI	VIII 30 16 10 54.2	14.16N	144.88E	47	4.5b	**¶97viii4512**	
NEIC	VIII 30 16 10 54.5	14.68N	145.01E	33	4.5b		
EIDC	VIII 30 16 10 55.3	14.6N	145.0E	25	4.0b		
ISC	**VIII 30 17 16 18.8**±.64	**14.61N**±.068	**144.8E**±.13	**33**	**4.0b,**3.0s	**13**	**1-148**
NEIC	VIII 30 17 16 18.6	14.60N	144.81E	33		**¶97viii4517**	
EIDC	VIII 30 17 16 20.2	14.7N	144.4E	18	3.9b,3.6s		
NEIC	Single network solution.						
ISC	**VIII 30 18 18 25**±2.7	**14.67N**±.052	**144.78E**±.099	**26**±21	**4.3b,3.9s**	**39**	**1-168**
NEIC	VIII 30 18 18 25.2	14.67N	144.79E	33	4.5b	**¶97viii4521**	
EIDC	VIII 30 18 18 26.5	14.8N	144.9E	23	4.1b,3.9s		
BJI	VIII 30 18 18 26.9	14.14N	144.04E	29	4.7b		
EIDC	**VIII 30 19 03 23.6**	**14.3N**	**144.0E**	**0**	**3.6b**		**39-90**
						¶97viii4526	
ISC	**VIII 30 19 43 04**±2.5	**14.63N**±.042	**144.84E**±.078	**27**±19	**4.5b,3.9s**	**57**	**1-148**
EIDC	VIII 30 19 43 04.7	14.7N	145.1E	22	4.3b,3.9s	**¶97viii4529**	
NEIC	VIII 30 19 43 05.0	14.64N	144.86E	33	4.7b		
BJI	VIII 30 19 43 05.6	14.87N	144.58E	15	4.8b		
ISC	**VIII 30 20 24 26**±1.1	**14.7N**±.15	**145.2E**±.32	**33**	**3.7b**	**7**	**23-90**
NEIC	VIII 30 20 24 26.0	14.68N	145.23E	33		**¶97viii4531**	
EIDC	VIII 30 20 24 27.3	14.7N	145.3E	29	3.6b		
NEIC	Poor solution.						
ISC	**VIII 30 21 51 57.5**±.95	**14.59N**±.097	**145.0E**±.16	**51**±14	**4.1b,**5.1s	**21**	**1-143**
NEIC	VIII 30 21 51 56.3	14.67N	144.92E	33		**¶97viii4540**	
EIDC	VIII 30 21 51 57.1	14.7N	145.2E	30	4.0b,4.4s		
NEIC	Less reliable solution.						
ISC	**VIII 31 00 05 05**±3.0	**14.60N**±.050	**144.9E**±.12	**31**±24	**4.2b**	**32**	**1-148**
NEIC	VIII 31 00 05 04.9	14.60N	144.86E	33	4.4b	**¶97viii4554**	
EIDC	VIII 31 00 05 04.9	14.6N	144.9E	20	4.1b		
ISC	**VIII 31 00 11 07**±2.6	**14.66N**±.043	**144.82E**±.083	**28**±20	**4.5b,4.4s**	**53**	**1-148**
NEIC	VIII 31 00 11 06.3	14.69N	144.75E	25	4.6b	**¶97viii4556**	
BJI	VIII 31 00 11 06.8	14.40N	144.65E	31	4.8b,4.5s		
EIDC	VIII 31 00 11 07.3	14.6N	144.9E	22	4.3b,4.3s		
ISC	**VIII 31 00 16 41.7**±.99	**14.60N**±.095	**144.9E**±.38	**33**	**4.0b**	**11**	**27-148**
NEIC	VIII 31 00 16 41.4	14.59N	144.99E	33	4.0b	**¶97viii4557**	
EIDC	VIII 31 00 16 41.8	14.6N	145.3E	27	3.7b		
NEIC	Less reliable solution.						
ISC	**VIII 31 01 21 31.8**±.62	**14.51N**±.081	**144.4E**±.19	**25**	**3.9b**	**15**	**1-149**
NEIC	VIII 31 01 21 31.9	14.50N	144.41E	25	4.1b	**¶97viii4565**	
EIDC	VIII 31 01 21 34.3	14.6N	144.0E	23	3.8b		
NEIC	Less reliable solution.						
ISC	**VIII 31 03 13 00**±1.3	**14.2N**±.14	**145.6E**±.24	**33**	**3.6b**	**8**	**1-147**
EIDC	VIII 31 03 12 58.7	14.0N	145.5E	0	3.6b	**¶97viii4577**	
NEIC	VIII 31 03 12 59.9	14.19N	145.63E	33			
NEIC	Poor solution.						
ISC	**VIII 31 04 54 59**±1.2	**14.3N**±.23	**145.4E**±.45	**33**	**3.3b**	**8**	**1-148**
NEIC	VIII 31 04 54 58.7	14.28N	145.46E	33		**¶97viii4586**	
EIDC	VIII 31 04 55 10.1	12.8N	145.7E	23	3.3b		
NEIC	Poor solution.						
ISC	**VIII 31 11 54 47**±1.2	**14.1N**±.16	**146.6E**±.14	**33**	**3.6b**	**8**	**1-67**
EIDC	VIII 31 11 54 44.6	14.2N	146.2E	0	3.6b	**¶97viii4647**	
NEIC	VIII 31 11 54 47.0	14.13N	146.55E	33			
NEIC	Poor solution.						
ISC	**VIII 31 12 27 35.3**±.56	**14.60N**±.061	**144.9E**±.13	**33**	**3.8b,**3.4s	**14**	**1-90**
EIDC	VIII 31 12 27 33.3	14.7N	144.6E	0	3.9b,3.4s	**¶97viii4651**	
NEIC	VIII 31 12 27 35.0	14.59N	144.86E	33			
ISC	**VIII 31 13 01 22.6**±.93	**14.63N**±.030	**144.79E**±.045	**35**±8.7	**4.9b,4.8s**	**179**	**1-168**
NEIC	VIII 31 13 01 22.1	14.67N	144.66E	33	5.0b,4.9s	**¶97viii4653**	
MOS	VIII 31 13 01 22.5	14.6N	144.7E	33	5.5b,4.7s		
BJI	VIII 31 13 01 22.8	14.69N	144.82E	37	5.3b,4.7s		
EIDC	VIII 31 13 01 25.9	14.7N	144.8E	50	4.4b		
ISC	**VIII 31 19 21 11**±1.0	**14.65N**±.042	**144.79E**±.092	**38**±10	**4.3b,3.7s**	**51**	**1-148**
NEIC	VIII 31 19 21 09.5	14.68N	144.74E	26	4.5b	**¶97viii4697**	
BJI	VIII 31 19 21 10.0	14.67N	144.49E	16	4.6b		
EIDC	VIII 31 19 21 11.0	14.7N	144.8E	24	4.1b,3.7s		
ISC	**VIII 31 22 59 57**±1.2	**14.3N**±.13	**145.6E**±.42	**200**	**3.3b**	**6**	**28-91**
EIDC	VIII 31 23 00 05.5	14.3N	145.5E	266	3.1b	**¶97viii4724**	
ISC	**VIII 31 23 56 49**±6.8	**14.6N**±.10	**145.6E**±.26	**2**±39	**4.2b**	**20**	**1-147**
EIDC	VIII 31 23 56 51.1	14.6N	145.6E	0	4.1b,3.0s	**¶97viii4730**	
NEIC	VIII 31 23 56 54.1	14.59N	145.52E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**IX 01 02 08 10**±1.4	**14.62N**±.079	**145.1E**±.37	**33**	**3.8b**	**11**	**1-90**
NEIC	IX 01 02 08 09.8	14.61N	145.13E	33	3.8b	**¶97ix0021**	
EIDC	IX 01 02 08 16.2	14.6N	145.1E	75	3.6b		
NEIC	Less reliable solution.						
ISC	**IX 01 02 16 38**	**14.6N**	**144.8E**	**33**	**3.5b**	**7**	**1-39**
EIDC	IX 01 02 16 59.2	13.4N	134.4E	0	3.5b	**¶97ix0023**	
ISC	Assigned origin						
ISC	**IX 01 02 56 44**±1.4	**14.62N**±.057	**144.8E**±.17	**36**±13	**4.3b,3.5s**	**34**	**1-148**
NEIC	IX 01 02 56 43.3	14.64N	144.84E	33	4.5b	**¶97ix0031**	
EIDC	IX 01 02 56 43.7	14.6N	144.9E	22	4.1b,3.7s		
ISC	**IX 01 04 36 03**±1.2	**14.5N**±.13	**144.5E**±.29	**33**	**3.6b**	**6**	**27-68**
EIDC	IX 01 04 36 00.2	14.5N	144.6E	0	3.7b	**¶97ix0042**	
NEIC	IX 01 04 36 02.9	14.48N	144.54E	33	3.6b		
NEIC	Poor solution.						
ISC	**IX 01 10 39 48**±1.5	**14.2N**±.14	**145.6E**±.19	**33**	**3.6b**	**7**	**1-46**
EIDC	IX 01 10 39 47.5	14.0N	144.8E	0	3.6b	**¶97ix0093**	
NEIC	IX 01 10 39 47.8	14.16N	145.63E	33			
NEIC	Poor solution.						
ISC	**IX 01 20 17 41**±1.8	**14.6N**±.12	**145.1E**±.27	**55**±16	**3.8b,**3.3s	**11**	**1-90**
EIDC	IX 01 20 17 35.8	14.6N	145.1E	0	3.9b,3.3s	**¶97ix0158**	
NEIC	IX 01 20 17 39.0	14.69N	145.20E	33			
NEIC	Less reliable solution.						
ISC	**IX 02 02 10 46**±7.7	**14.2N**±.13	**144.0E**±.20	**7**±49	**3.8b,**3.4s	**11**	**1-92**
EIDC	IX 02 02 10 47.1	14.3N	144.1E	0	3.7b,3.4s	**¶97ix0204**	
NEIC	IX 02 02 10 49.7	14.22N	144.12E	33	3.7b		
NEIC	Less reliable solution.						
ISC	**IX 02 23 39 50**±1.8	**14.59N**±.089	**144.8E**±.20	**34**±15	**4.2b,3.6s**	**24**	**1-148**
NEIC	IX 02 23 39 49.4	14.62N	145.02E	33	4.4b	**¶97ix0351**	
EIDC	IX 02 23 40 04.9	14.5N	144.1E	149	3.7s,3.7b		
NEIC	Less reliable solution.						
ISC	**IX 03 00 44 18**±1.4	**14.57N**±.060	**145.1E**±.18	**41**±12	**4.2b,3.7s**	**29**	**1-92**
NEIC	IX 03 00 44 17.9	14.57N	145.14E	42	4.4b	**¶97ix0357**	
EIDC	IX 03 00 44 23.2	14.6N	145.2E	75	3.8b,3.7s		
NEIC	Less reliable solution.						
ISC	**IX 03 08 45 04**±2.0	**18.94N**±.049	**145.3E**±.12	**246**±21	**4.1b**	**63**	**9-158**
NEIC	IX 03 08 45 03.7	18.95N	145.35E	250	4.4b	**¶97ix0402**	
EIDC	IX 03 08 45 09.1	19.0N	145.5E	291	3.7b		
ISC	**IX 03 11 02 51**±4.3	**14.54N**±.071	**144.4E**±.19	**7**±29	**4.1b,3.4s**	**26**	**1-149**
NEIC	IX 03 11 02 54.4	14.51N	144.62E	33	4.3b	**¶97ix0420**	
EIDC	IX 03 11 02 54.4	14.6N	144.6E	17	4.0b,3.5s		
BJI	IX 03 11 02 54.5	14.14N	144.11E	34	5.0b		
NEIC	Less reliable solution.						
ISC	**IX 03 13 38 38**±3.0	**14.68N**±.041	**144.85E**±.054	**30**±21	**4.7b,4.6s**	**139**	**1-156**
EIDC	IX 03 13 38 34.4	14.7N	144.9E	0	4.6b	**¶97ix0428**	
NEIC	IX 03 13 38 37.6	14.71N	144.79E	33	4.8b,4.6s		
BJI	IX 03 13 38 38.1	14.49N	144.97E	47	5.0b,4.7s		
ISC	**IX 03 14 41 38**±2.0	**14.63N**±.089	**145.2E**±.19	**34**±18	**4.1b,**4.4s	**22**	**1-148**
BJI	IX 03 14 41 26.7	13.92N	145.40E	5	4.6b	**¶97ix0435**	
EIDC	IX 03 14 41 34.3	14.6N	145.3E	0	4.0b		
NEIC	IX 03 14 41 38.8	14.58N	144.79E	33	4.3b		
NEIC	Less reliable solution.						
EIDC	**IX 04 01 03 15.3**	**14.2N**	**144.8E**	**552**	**2.7b**	**¶97ix0525**	
ISC	Unassociated P and S readings of three stations at Guam suggest that the event was considerably shallower						
ISC	**IX 04 03 02 12**±2.0	**18.81N**±.048	**145.5E**±.12	**220**±20	**4.1b**	**38**	**9-88**
NEIC	IX 04 03 02 09.8	18.81N	145.60E	200	4.4b	**¶97ix0538**	
EIDC	IX 04 03 02 12.6	18.8N	145.5E	211	3.8b		
ISC	**IX 04 12 29 24.8**±.43	**14.63N**±.048	**144.8E**±.12	**33**	**4.2b,4.0s**	**34**	**1-148**
BJI	IX 04 12 29 24.6	14.60N	144.80E	33	4.6b	**¶97ix0589**	
NEIC	IX 04 12 29 24.6	14.64N	144.83E	33	4.2b		
EIDC	IX 04 12 29 31.5	14.7N	144.9E	77	3.8b,4.0s		
NEIC	Less reliable solution.						
ISC	**IX 04 15 01 58.1**±.59	**14.30N**±.078	**144.5E**±.15	**33**	**3.7b**	**14**	**1-87**
EIDC	IX 04 15 01 54.6	14.5N	144.4E	0	3.7b	**¶97ix0606**	
NEIC	IX 04 15 01 57.9	14.31N	144.52E	33	3.8b		
NEIC	Less reliable solution.						
ISC	**IX 05 19 03 11**±5.7	**14.72N**±.095	**145.2E**±.34	**19**±40	**3.9b,**3.4s	**18**	**1-143**
NEIC	IX 05 19 03 12.1	14.74N	145.12E	33	3.9b	**¶97ix0785**	
EIDC	IX 05 19 03 12.6	14.7N	145.3E	21	3.8b,3.4s		

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
NEIC		Less reliable solution.							
ISC	**IX**	**06 05 18 36**±2.3	**14.7N**±.13	**145.1E**±.29	**35**±22	**3.8b**	**12**	**1-143**	
EIDC	IX	06 05 18 32.3	14.7N	145.1E	0	3.8b			¶97ix0861
NEIC	IX	06 05 18 35.8	14.70N	145.11E	39	3.9b			
NEIC		Poor solution.							
ISC	**IX**	**08 01 06 13**±1.3	**18.62N**±.049	**145.6E**±.11	**212**±13	**4.0b**	**41**	**5-148**	
NEIC	IX	08 01 06 11.9	18.63N	145.67E	206	4.3b			¶97ix1148
EIDC	IX	08 01 06 14.3	18.7N	145.6E	211	3.7b			
ISC	**IX**	**08 04 10 45**±1.1	**19.1N**±.11	**145.6E**±.27	**285**	**3.9b**	**12**	**19-148**	
NEIC	IX	08 04 10 45.1	19.12N	145.58E	285	4.1b			¶97ix1171
EIDC	IX	08 04 10 46.6	19.1N	145.4E	272	3.6b			
NEIC		Less reliable solution.							
ISC	**IX**	**10 17 36 01**±1.6	**15.1N**±.14	**145.9E**±.41	**33**	**3.8b**	**8**	**2-90**	
EIDC	IX	10 17 35 56.9	15.2N	146.1E	0	3.9b			¶97ix1553
ISC	**IX**	**11 11 13 12**±3.7	**14.2N**±.10	**146.6E**±.27	**47**±30	**3.9b**	**14**	**2-145**	
NEIC	IX	11 11 13 10.0	14.29N	146.71E	33				¶97ix1667
EIDC	IX	11 11 13 25.1	14.2N	146.4E	151	3.5b			
NEIC		Less reliable solution.							
ISC	**IX**	**11 13 31 12.9**±.89	**14.28N**±.098	**144.5E**±.23	**33**	**3.4b**	**7**	**1-70**	
EIDC	IX	11 13 31 09.6	14.2N	144.7E	0	3.4b			¶97ix1681
NEIC	IX	11 13 31 12.9	14.26N	144.44E	33				
NEIC		Less reliable solution.							
ISC	**IX**	**13 11 50 54**±2.3	**18.26N**±.069	**147.0E**±.25	**82**±19	**4.0b**	**20**	**5-146**	
NEIC	IX	13 11 50 56.4	18.22N	146.73E	100	4.1b			¶97ix1967
EIDC	IX	13 11 51 00.1	18.2N	146.8E	118	3.7b,3.7s			
NEIC		Less reliable solution.							
ISC	**IX**	**14 05 44 06**±1.4	**14.51N**±.077	**144.6E**±.18	**36**±13	**4.4b,3.8s**	**36**	**1-148**	
EIDC	IX	14 05 44 04.0	14.6N	145.0E	19	4.2b,3.9s			¶97ix2079
BJI	IX	14 05 44 04.3	14.50N	144.50E	24	4.7b			
NEIC	IX	14 05 44 04.3	14.53N	144.55E	24	4.5b			
NEIC		Less reliable solution.							
ISC	**IX**	**17 20 55 17**±1.3	**14.7N**±.13	**144.7E**±.56	**33**	**3.8b**	**9**	**1-90**	
EIDC	IX	17 20 55 14.6	14.7N	144.6E	0	3.9b			¶97ix2554
NEIC	IX	17 20 55 17.2	14.67N	144.76E	33				
NEIC		Poor solution.							
ISC	**IX**	**18 07 57 14.2**±.51	**20.86N**±.089	**144.6E**±.23	**150**	**4.1b**	**16**	**42-97**	
NEIC	IX	18 07 57 01.3	20.94N	144.80E	33	4.4b			¶97ix2630
EIDC	IX	18 07 57 24.8	20.8N	144.6E	236	3.8b			
NEIC		Less reliable solution.							
ISC	**IX**	**19 20 48 01.8**±.76	**19.48N**±.091	**144.8E**±.18	**33**	**4.0b,3.4s**	**13**	**23-86**	
EIDC	IX	19 20 47 58.9	19.5N	144.7E	0	3.8b,3.4s			¶97ix2845
BJI	IX	19 20 48 00.1	19.85N	144.97E	22	4.5b			
NEIC	IX	19 20 48 01.8	19.50N	144.77E	33	4.0b			
NEIC		Less reliable solution.							
ISC	**IX**	**19 20 49 37.0**±.59	**19.54N**±.065	**144.6E**±.17	**33**	**4.0b**	**21**	**22-86**	
EIDC	IX	19 20 49 34.2	19.5N	144.6E	0	4.0b			¶97ix2846
BJI	IX	19 20 49 37.0	19.60N	144.60E	33	4.5b			
NEIC	IX	19 20 49 37.0	19.55N	144.56E	33	4.3b			
NEIC		Less reliable solution.							
ISC	**IX**	**21 05 27 09.5**±.59	**19.16N**±.095	**145.7E**±.23	**150**	**3.7b**	**12**	**24-87**	
NEIC	IX	21 05 27 09.4	19.17N	145.75E	150	3.9b			¶97ix3046
EIDC	IX	21 05 27 15.0	19.2N	145.6E	187	3.5b			
NEIC		Less reliable solution.							
ISC	**IX**	**22 02 41 34**±1.4	**13.8N**±.21	**144.3E**±.30	**129**	**3.5b**	**8**	**1-69**	
EIDC	IX	22 02 41 20.8	13.8N	144.7E	0	3.7b			¶97ix3201
NEIC	IX	22 02 41 33.9	13.76N	144.54E	129	3.8b			
NEIC		Poor solution.							
ISC	**IX**	**23 15 21 55**±5.0	**20.18N**±.081	**145.4E**±.22	**104**±47	**4.1b**	**15**	**17-85**	
NEIC	IX	23 15 21 55.0	20.19N	145.40E	100	4.2b			¶97ix3444
EIDC	IX	23 15 22 01.9	20.2N	145.2E	146	3.7b			
NEIC		Less reliable solution.							
ISC	**IX**	**26 18 17 29**±1.1	**18.4N**±.13	**146.1E**±.23	**100**	**3.8b**	**9**	**5-147**	
EIDC	IX	26 18 17 19.0	18.2N	146.1E	0	3.9b			¶97ix4105
ISC	**IX**	**27 20 39 30**±3.1	**19.0N**±.10	**145.4E**±.30	**578**±43	**3.6b**	**14**	**19-148**	
NEIC	IX	27 20 39 31.6	19.04N	145.35E	600				¶97ix4453
EIDC	IX	27 20 39 31.7	19.0N	145.3E	571	3.0b			
NEIC		Less reliable solution.							
ISC	**IX**	**29 00 24 04**±1.3	**18.86N**±.058	**145.4E**±.13	**262**±12	**3.9b**	**38**	**5-148**	
NEIC	IX	29 00 24 12.2	18.83N	145.24E	350	4.2b			¶97ix4807
EIDC	IX	29 00 24 14.0	18.9N	145.3E	350	3.5b			
ISC	**IX**	**29 03 17 27**±2.1	**18.52N**±.064	**146.8E**±.21	**74**±20	**4.0b**	**21**	**5-88**	
EIDC	IX	29 03 17 29.0	18.6N	146.9E	75	3.7b,4.7L			¶97ix4849
NEIC	IX	29 03 17 29.6	18.48N	146.71E	100	4.2b			
NEIC		Less reliable solution.							
ISC	**IX**	**29 17 35 47**±1.7	**20.16N**±.027	**145.88E**±.040	**33**±15	**5.2b,4.7s**	**242**	**7-166**	
NEIC	IX	29 17 35 51.0	20.20N	145.81E	70	5.3b			¶97ix4993
BJI	IX	29 17 35 51.2	20.52N	145.53E	40	5.0b,4.8s			
MOS	IX	29 17 35 51.4	20.4N	145.7E	61	5.6b,4.7s			
EIDC	IX	29 17 35 52.2	20.2N	145.8E	66	4.9b,4.7s			
HRVD	IX	29 17 35 53.3±.2	20.24N±.02	146.06E±.04	55±2.4				
NEIC		Mw5.6(HRV).							
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c75; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.81±.04; $M_{\theta\theta}$2.01±.06; $M_{\phi\phi}$−1.20±.07; $M_{r\theta}$−1.25±.07; $M_{r\phi}$1.20±.07; $M_{\theta\phi}$0.31±.06. Principal Axes: T 2.49,Plg21°,Azm182°; N −0.01, Plg40°,Azm291°; P −2.48,Plg43°,Azm71°. Best double couple: $M_0$2.5×10^{17}Nm, NP1: φs227°,δ42°,λ−161°. NP2:φs122°,δ77°,λ−49°.								
ISC	**IX**	**30 00 50 26**±1.8	**18.63N**±.090	**145.8E**±.21	**200**±16	**3.7b**	**15**	**5-87**	
NEIC	IX	30 00 50 26.3	18.63N	145.82E	200	4.1b			¶97ix5079
EIDC	IX	30 00 50 27.0	18.7N	145.9E	189	3.5b			
NEIC		Less reliable solution.							
ISC	**IX**	**30 02 58 32**±1.3	**19.2N**±.15	**145.2E**±.38	**150**	**3.6b**	**6**	**18-86**	
EIDC	IX	30 02 58 35.2	19.2N	145.1E	160	3.4b			¶97ix5105
ISC	**IX**	**30 04 06 07**±1.2	**19.4N**±.14	**144.8E**±.39	**33**	**3.5b**	**5**	**23-86**	
EIDC	IX	30 04 06 04.1	19.4N	144.8E	0	3.5b			¶97ix5119
ISC	**IX**	**30 09 28 44**±2.8	**19.08N**±.036	**145.85E**±.057	**61**±25	**5.0b**	**142**	**6-166**	
BJI	IX	30 09 28 40.6	18.83N	146.62E	91	4.6b			¶97ix5189
NEIC	IX	30 09 28 47.5	19.11N	145.77E	91	5.1b			
EIDC	IX	30 09 28 54.5	19.1N	145.6E	147	4.4b			
ISC	**IX**	**30 13 40 28**±1.2	**19.5N**±.16	**144.8E**±.26	**33**	**4.0b**	**7**	**23-86**	
EIDC	IX	30 13 40 25.6	19.5N	144.7E	0	3.9b			¶97ix5241
ISC	**X**	**04 07 43 10**±1.9	**13.1N**±.14	**145.3E**±.31	**67**±13	**3.8b**	**13**	**1-145**	
EIDC	X	04 07 43 02.8	13.2N	145.4E	0	3.9b,3.3s			¶97x0607
NEIC	X	04 07 43 09.8	13.11N	145.31E	70				
NEIC		Poor solution.							
ISC	**X**	**04 23 18 21.6**±.96	**14.4N**±.12	**144.5E**±.21	**33**	**3.4b**,3.4s	**7**	**1-68**	
EIDC	X	04 23 18 19.3	14.5N	144.4E	0	3.4b,3.4s			¶97x0758
NEIC	X	04 23 18 21.5	14.43N	144.54E	33				
NEIC		Single network solution.							
ISC	**X**	**06 00 09 23**±4.0	**19.12N**±.051	**145.4E**±.13	**178**±38	**4.4b**	**42**	**18-92**	
NEIC	X	06 00 09 25.5	19.12N	145.40E	200	4.5b			¶97x0957
EIDC	X	06 00 09 28.5	19.1N	145.6E	215	4.1b			
ISC	**X**	**06 01 21 05**±6.2	**20.62N**±.069	**144.6E**±.14	**18**±44	**4.3b,3.7s**	**31**	**17-93**	
EIDC	X	06 01 21 01.6	20.7N	145.3E	0	4.2b,3.9s			¶97x0961
BJI	X	06 01 21 07.3	20.60N	144.60E	33	4.7b			
NEIC	X	06 01 21 07.3	20.63N	144.60E	33	4.5b			
NEIC		Less reliable solution.							
ISC	**X**	**06 19 03 20**±1.6	**17.01N**±.070	**146.2E**±.13	**124**±14	**4.5b**	**27**	**4-89**	
NEIC	X	06 19 03 11.3	16.95N	146.30E	49				¶97x1103
EIDC	X	06 19 03 13.0	17.0N	146.4E	45	3.8b			
NEIC		Less reliable solution.							
ISC	**X**	**07 10 40 45.4**±.99	**13.2N**±.10	**145.5E**±.17	**33**	**3.9b**	**11**	**1-145**	
EIDC	X	07 10 40 41.3	13.1N	146.0E	0	4.0b			¶97x1230
NEIC	X	07 10 40 44.9	13.19N	145.59E	33	3.9b			
NEIC		Less reliable solution.							
NEIC		Felt I=III MM on Guam.							
ISC	**X**	**09 15 34 06**±1.7	**14.65N**±.066	**144.8E**±.16	**34**±15	**4.4b,3.6s**	**40**	**1-148**	
NEIC	X	09 15 34 05.4	14.67N	144.81E	30	4.6b			¶97x1606
BJI	X	09 15 34 05.5	14.72N	144.65E	24	4.6b			
EIDC	X	09 15 34 06.9	14.7N	144.9E	29	4.2b,3.7s			
NEIC		Less reliable solution.							
ISC	**X**	**11 04 47 59**±2.6	**13.0N**±.14	**145.2E**±.68	**33**	**3.8b**	**9**	**1-69**	
EIDC	X	11 04 47 59.3	12.9N	144.3E	0	3.7b			¶97x1848
ISC	**X**	**13 13 32 29**±3.5	**14.56N**±.095	**147.0E**±.24	**39**±28	**3.9b**	**12**	**2-67**	
EIDC	X	13 13 32 25.8	14.5N	147.0E	0	3.9b,4.9L			¶97x2231
NEIC	X	13 13 32 28.0	14.58N	147.04E	33				
NEIC		Single network solution.							
ISC	**X**	**15 14 23 03**±1.4	**14.6N**±.13	**144.7E**±.34	**33**	**3.7b**,3.5s	**10**	**1-51**	
EIDC	X	15 14 23 01.0	14.7N	144.4E	0	3.7b,3.7s			¶97x2654
NEIC	X	15 14 23 02.5	14.63N	144.70E	33	3.9b			
NEIC		Less reliable solution.							
ISC	**X**	**16 06 26 04**±3.0	**20.40N**±.058	**145.1E**±.11	**98**±28	**4.4b**	**41**	**17-148**	
NEIC	X	16 06 26 05.1	20.42N	145.18E	107	4.7b			¶97x2802
BJI	X	16 06 26 05.6	20.80N	144.95E	83	4.6b,4.7s			
EIDC	X	16 06 26 07.0	20.4N	145.3E	114	4.1b			
ISC	**X**	**17 13 59 43**±4.4	**20.35N**±.077	**145.3E**±.20	**101**±40	**4.0b**	**19**	**17-148**	
NEIC	X	17 13 59 43.2	20.35N	145.32E	100	4.2b			¶97x2999
EIDC	X	17 13 59 45.8	20.4N	145.1E	109	3.8b			
NEIC		Less reliable solution.							
EIDC	**X**	**18 07 51 24.8**	**13.9N**	**145.5E**	**0**	**3.5b**			¶97x3121
ISC	**X**	**20 05 27 37.0**±.83	**19.16N**±.089	**145.5E**±.28	**300**	**3.8b**	**10**	**18-86**	
NEIC	X	20 05 27 36.8	19.17N	145.54E	300	3.9b			¶97x3447
EIDC	X	20 05 27 38.2	19.1N	145.5E	294	3.5b			
NEIC		Less reliable solution.							
EIDC	**X**	**22 18 16 13.5**	**17.7N**	**146.8E**	**0**	**3.5b**			¶97x3865
ISC	**X**	**24 03 34 05**±1.5	**15.6N**±.20	**146.7E**±.30	**33**	**3.6b**	**6**	**3-147**	
EIDC	X	24 03 34 01.4	15.5N	146.8E	0	3.5b			¶97x4103
NEIC	X	24 03 34 04.9	15.61N	146.76E	33				
NEIC		Less reliable solution.							
ISC	**X**	**25 05 03 25**±1.2	**18.79N**±.052	**145.7E**±.12	**241**±12	**4.0b**	**36**	**5-142**	
NEIC	X	25 05 03 23.4	18.83N	145.68E	231	4.4b			¶97x4275
EIDC	X	25 05 03 25.5	18.8N	145.7E	234	3.6b			
ISC	**X**	**28 04 51 45.7**±.82	**19.2N**±.11	**145.8E**±.26	**150**	**3.6b**	**10**	**19-148**	
NEIC	X	28 04 51 45.7	19.22N	145.75E	150				¶97x4712
EIDC	X	28 04 51 49.6	19.2N	145.6E	168	3.5b			
NEIC		Poor solution.							
ISC	**X**	**28 17 15 14**±1.0	**13.1N**±.14	**144.6E**±.52	**33**	**3.8b**	**7**	**34-69**	
EIDC	X	28 17 15 10.9	13.1N	144.7E	0	3.7b			¶97x4791
NEIC	X	28 17 15 13.8	13.08N	144.62E	33	4.0b			
NEIC		Poor solution.							
ISC	**XI**	**01 09 24 47**±2.5	**14.84N**±.065	**146.8E**±.17	**48**±21	**4.3b,3.9s**	**30**	**2-146**	
EIDC	XI	01 09 24 42.1	14.9N	146.8E	0	4.1b,3.8s			¶97xi0052
NEIC	XI	01 09 24 45.1	14.87N	146.84E	33	4.4b			
BJI	XI	01 09 24 45.6	15.06N	147.02E	36	4.9b			
NEIC		Less reliable solution.							
ISC	**XI**	**04 12 48 21**±1.0	**18.7N**±.12	**146.0E**±.26	**400**	**3.4b**	**11**	**18-147**	
NEIC	XI	04 12 48 29.9	18.62N	145.66E	500				¶97xi0637
EIDC	XI	04 12 48 31.3	18.6N	145.4E	487	3.0b			
NEIC		Poor solution.							
ISC	**XI**	**06 11 21 07**±6.8	**19.01N**±.072	**145.8E**±.23	**92**±63	**4.3b**	**31**	**19-157**	
NEIC	XI	06 11 21 00.6	18.99N	146.06E	33	4.6b			¶97xi0968
EIDC	XI	06 11 21 12.3	19.0N	145.9E	127	4.0b			
NEIC		Less reliable solution.							
EIDC	**XI**	**08 05 36 00.7**	**18.8N**	**144.4E**	**0**	**3.4b**			¶97xi1218
ISC	**XI**	**08 21 36 37.6**±.96	**19.0N**±.14	**145.6E**±.40	**300**	**3.3b**	**6**	**19-87**	
EIDC	XI	08 21 36 42.3	19.0N	145.4E	334	3.0b			¶97xi1355
ISC	**XI**	**09 09 33 18**±2.2	**19.2N**±.11	**145.2E**±.20	**95**±21	**4.1b**	**23**	**6-92**	
NEIC	XI	09 09 33 17.2	19.25N	145.26E	93	4.4b			¶97xi1426
EIDC	XI	09 09 33 45.2	18.9N	145.3E	352	3.6b			
NEIC		Less reliable solution.							
EIDC	**XI**	**11 14 02 41.2**	**17.3N**	**146.2E**	**0**	**3.6b**			¶97xi1800
ISC	**XI**	**13 14 24 04.5**±.82	**18.9N**±.12	**145.7E**±.25	**300**	**3.5b**	**9**	**40-87**	
EIDC	XI	13 14 24 07.5	19.0N	145.7E	315	3.3b			¶97xi2151
ISC	**XI**	**14 05 04 47**±2.5	**18.32N**±.050	**145.2E**±.12	**472**±30	**4.1b**	**44**	**19-148**	
BJI	XI	14 05 04 46.3	18.47N	145.32E	452	4.1b			¶97xi2243
NEIC	XI	14 05 04 46.5	18.33N	145.22E	461	4.2b			
EIDC	XI	14 05 04 47.5	18.3N	145.4E	464	3.7b			
ISC	**XI**	**20 11 59 12.0**±.89	**19.0N**±.13	**145.5E**±.50	**33**	**4.2b**	**11**	**34-148**	
EIDC	XI	20 11 59 08.3	19.0N	145.3E	0	4.1b			¶97xi3458
NEIC	XI	20 11 59 12.2	19.03N	145.27E	33	4.3b			
NEIC		Poor solution.							
ISC	**XI**	**20 13 02 59**±1.1	**18.9N**±.18	**145.3E**±.27	**300**	**3.3b**	**8**	**40-92**	
EIDC	XI	20 13 03 04.0	18.8N	145.3E	335	3.2b			¶97xi3469
ISC	**XI**	**21 18 49 26**±5.9	**17.98N**±.090	**145.8E**±.28	**254**±57	**3.6b**	**13**	**18-88**	
NEIC	XI	21 18 49 25.4	17.99N	145.77E	250	3.7b			¶97xi3714
EIDC	XI	21 18 49 27.9	18.0N	145.8E	258	3.4b			
NEIC		Less reliable solution.							
ISC	**XI**	**22 11 52 46**±1.1	**13.9N**±.14	**144.9E**±.27	**33**	**3.8b**	**9**	**35-68**	
EIDC	XI	22 11 52 43.3	13.9N	144.9E	0	3.7b			¶97xi3866
NEIC	XI	22 11 52 46.6	13.80N	144.90E	33	4.1b			
NEIC		Less reliable solution.							
ISC	**XI**	**23 02 12 59**±3.5	**15.89N**±.082	**145.2E**±.15	**440**±39	**3.9b**	**38**	**21-148**	
BJI	XI	23 02 12 58.0	15.97N	145.49E	445				¶97xi4003
NEIC	XI	23 02 12 58.6	15.91N	145.27E	439	4.4b			
EIDC	XI	23 02 12 59.2	15.9N	145.5E	435	3.6b			
NEIC		Less reliable solution.							
ISC	**XI**	**30 03 41 15**±1.1	**17.4N**±.16	**146.1E**±.28	**33**	**4.1b**	**8**	**39-147**	
EIDC	XI	30 03 41 12.1	17.3N	146.1E	0	3.9b			¶97xi5357
NEIC	XI	30 03 41 15.6	17.37N	146.00E	33	4.1b			
NEIC		Poor solution.							

ISC XI 30 04 42 42±1.2 **13.0N**±.13 **145.6E**±.30 **33** **3.9b** **10 24-145**
EIDC XI 30 04 42 39.3 13.1N 145.6E 0 4.0b **¶97xi5364**
NEIC XI 30 04 42 42.6 13.03N 145.57E 33 3.6b
NEIC Less reliable solution.
ISC XII 04 19 38 02±1.1 **13.7N**±.15 **145.8E**±.14 **33** **3.4b,**3.0s **7 1-68**
EIDC XII 04 19 37 58.8±1.27 13.7N 146.0E 0 3.4b,3.0s **¶97xii0679**
NEIC XII 04 19 38 01.8 13.73N 145.80E 33
EIDC Error ellipse is semi−major=48.3km semi−minor=22.0km azimuth=99
NEIC Less reliable solution.
EIDC XII 06 07 46 16.0 18.3N 144.2E 410±162.9 **3.2b** **39-149**
¶97xii1296
EIDC Origin time error = 15.66Error ellipse is semi−major=136.0km semi−minor=22.9km azimuth=81
ISC XII 07 13 15 32±1.2 **19.07N**±.037 **145.53E**±.053 **146**±11 **4.9b** **140 5-148**
MOS XII 07 13 15 19.1 19.2N 145.8E 33 5.5b **¶97xii1704**
BJI XII 07 13 15 31.3 19.10N 145.40E 141 4.6b
NEIC XII 07 13 15 31.3 19.11N 145.49E 141 5.1b
EIDC XII 07 13 15 31.9±3.70 19.1N 145.5E 137±33.2 4.6b
EIDC Error ellipse is semi−major=21.7km semi−minor=13.0km azimuth=98
ISC XII 08 01 00 39.3±.73 **19.2N**±.11 **145.4E**±.20 **33** **4.0b** **9 40-86**
EIDC XII 08 01 00 36.2±.90 19.2N 145.4E 0 4.0b **¶97xii1834**
NEIC XII 08 01 00 39.2 19.23N 145.40E 33
EIDC Error ellipse is semi−major=34.3km semi−minor=19.4km azimuth=105
NEIC Less reliable solution.
ISC XII 08 13 42 24.3±.70 **13.94N**±.053 **144.92E**±.073 **112**±6.7 **4.4b** **65 0-144**
EIDC XII 08 13 42 23.4±.70 14.0N 145.2E 97±5.8 4.1b **¶97xii1936**
NEIC XII 08 13 42 24.1 13.99N 144.84E 115 4.5b
BJI XII 08 13 42 24.9 14.23N 144.90E 98 4.8b
EIDC Error ellipse is semi−major=18.7km semi−minor=12.5km azimuth=92
NEIC Felt I=IV MM at Agana and Yigo; III MM at Dededo and Nimitz Hill, Guam. Also felt at Andersen AFB, Guam.
ISC XII 14 02 14 49.1±.85 **18.7N**±.12 **145.3E**±.22 **500** **3.4b** **14 24-123**
NEIC XII 14 02 14 49.2 18.67N 145.26E 500 **¶97xii3063**
EIDC XII 14 02 14 49.7±5.30 18.7N 145.3E 491±63.6 3.0b
NEIC Single network solution.
EIDC Error ellipse is semi−major=34.1km semi−minor=18.2km azimuth=91
ISC XII 17 10 23 31±1.2 **13.9N**±.11 **145.6E**±.30 **100** **3.8b** **12 21-145**
NEIC XII 17 10 23 28.4 13.99N 146.36E 100 3.6b **¶97xii3589**
EIDC XII 17 10 23 46.2 13.8N 145.3E 222±110.1 3.4b
NEIC Less reliable solution.
EIDC Origin time error = 11.78Error ellipse is semi−major=77.3km semi−minor=19.3km azimuth=84
ISC XII 18 20 23 03±2.5 **14.67N**±.027 **144.71E**±.035 **30**±17 **5.4b,5.4s** **261 1-168**
NEIC XII 18 20 23 02.8 14.71N 144.65E 33 5.5b,5.4s **¶97xii3817**
MOS XII 18 20 23 03.2 14.7N 144.7E 33 6.3b,5.3s
BJI XII 18 20 23 03.5 15.13N 144.27E 2 5.7b,5.3s
EIDC XII 18 20 23 03.5±.52 14.7N 144.9E 27±3.0 4.9b,5.3s
HRVD XII 18 20 23 05.2±.1 14.58N±.02 144.53E±.02 15
NEIC Mw5.8(HRV), Mw5.7(GS)
NEIC Felt on Saipan.
NEIC Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}−1.16; $M_{\theta\theta}$3.57; $M_{\phi\phi}$−2.42; $M_{r\theta}$1.91; $M_{r\phi}$−3.03; $M_{\theta\phi}$0.49. Depth 7km; Principal axes: T 4.30,Plg22°,Azm6°; N 0.88,Plg42°, Azm118°; P −5.18,Plg40°,Azm256°. Best double couple: $M_0$4.7×10^{17}Nm; NP1:ϕ_S49°,δ44°, λ−164°. NP2:ϕ_S307°,δ79°,λ−47°.
EIDC Error ellipse is semi−major=17.8km semi−minor=11.7km azimuth=90
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c93; Mantle waves: s5,c8; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}−5.18±.10; $M_{\theta\theta}$5.31±.10; $M_{\phi\phi}$−0.13±.15; $M_{r\theta}$1.76±.38; $M_{r\phi}$−1.35±.29; $M_{\theta\phi}$−2.79±.10. Principal Axes: T 6.87,Plg10°,Azm24°; N −1.24,Plg7°,Azm115°; P −5.63,Plg78°,Azm239°. Best double couple: $M_0$6.2×10^{17}Nm, NP1:ϕ_S105°,δ35°,λ−102°. NP2:ϕ_S300°,δ55°,λ−82°.
ISC XII 18 21 14 37±2.5 **14.3N**±.13 **144.1E**±.98 **33** **3.9b** **9 27-90**
EIDC XII 18 21 14 34.3±2.91 14.3N 144.1E 0 3.9b **¶97xii3829**
EIDC Error ellipse is semi−major=163.6km semi−minor=17.7km azimuth=85
ISC XII 18 21 35 49.9±.68 **14.54N**±.093 **145.1E**±.22 **33** **4.0b** **16 27-143**
BJI XII 18 21 35 45.8 14.50N 145.10E 33 4.3b **¶97xii3836**
EIDC XII 18 21 35 46.8±.78 14.6N 145.2E 0 4.1b,3.0s
NEIC XII 18 21 35 49.8 14.54N 145.09E 33 4.1b
EIDC Error ellipse is semi−major=40.0km semi−minor=16.1km azimuth=94
NEIC Less reliable solution.
ISC XII 18 22 47 49±1.2 **14.6N**±.12 **145.2E**±.29 **33** **3.5b** **8 27-144**
EIDC XII 18 22 47 45.5±1.32 14.6N 145.3E 0 3.6b **¶97xii3847**
NEIC XII 18 22 47 48.4 14.60N 145.22E 33 3.6b
EIDC Error ellipse is semi−major=45.8km semi−minor=21.5km azimuth=90
NEIC Poor solution.
ISC XII 18 23 24 17.1±.55 **14.63N**±.076 **144.8E**±.13 **33** **4.1b** **24 27-143**
EIDC XII 18 23 24 13.7±.68 14.7N 145.0E 0 4.1b **¶97xii3854**
NEIC XII 18 23 24 17.0 14.63N 144.90E 33 4.0b
EIDC Error ellipse is semi−major=28.2km semi−minor=15.2km azimuth=95
NEIC Less reliable solution.
ISC XII 20 18 21 51±6.0 **13.98N**±.089 **144.6E**±.20 **229**±60 **3.7b** **16 23-143**
NEIC XII 20 18 21 48.2 14.00N 144.57E 200 4.4b **¶97xii4147**
BJI XII 20 18 21 48.7 13.91N 144.50E 200 4.1b
EIDC XII 20 18 21 49.7±8.94 14.0N 144.8E 203±85.9 3.4b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=44.9km semi−minor=16.7km azimuth=91
ISC XII 20 19 22 55±2.6 **14.65N**±.047 **144.74E**±.067 **67**±23 **4.8b** **94 18-145**
NEIC XII 20 19 22 50.8 14.73N 144.91E 33 5.0b **¶97xii4158**
EIDC XII 20 19 22 51.0±.44 14.6N 145.0E 22±2.5 4.5b,4.6s
BJI XII 20 19 22 51.2 14.22N 144.87E 51 5.1b,4.7s
HRVD XII 20 19 22 54.1±.4 14.37N±.06 144.58E±.07 15
NEIC Mw5.3(HRV).
EIDC Error ellipse is semi−major=17.5km semi−minor=9.8km azimuth=90
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c34; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.51±.43; $M_{\theta\theta}$3.57±.49; $M_{\phi\phi}$1.95±.67; $M_{r\theta}$6.84±1.58; $M_{r\phi}$−0.89±1.36; $M_{\theta\phi}$−5.90±.52. Principal Axes: T 10.9,Plg20°,Azm35°; N −1.3,Plg26°,Azm295°; P −9.6,Plg56°,Azm159°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S162°,δ34°,λ−38°. NP2:ϕ_S285°,δ70°,λ−118°.
ISC XII 20 19 30 56±3.6 **14.62N**±.059 **144.59E**±.095 **116**±33 **4.5b** **58 19-143**
BJI XII 20 19 30 46.5 14.45N 145.07E 52 4.9b,4.6s **¶97xii4159**
EIDC XII 20 19 30 46.7±.51 14.6N 145.0E 21±2.6 4.3b,5.2L
NEIC XII 20 19 30 46.8 14.66N 144.78E 33 4.5b
EIDC Error ellipse is semi−major=24.3km semi−minor=11.3km azimuth=88
NEIC Less reliable solution.
ISC XII 21 03 46 05.0±.82 **19.7N**±.14 **144.7E**±.43 **33** **3.6b** **8 41-87**
EIDC XII 21 03 46 01.7±.95 19.7N 144.5E 0 3.7b **¶97xii4206**
EIDC Error ellipse is semi−major=81.8km semi−minor=21.4km azimuth=107
ISC XII 22 15 40 23±1.4 **18.7N**±.18 **144.7E**±.42 **33** **3.7b** **4 32-78**
EIDC XII 22 15 40 19.3±1.23 18.7N 144.9E 0 3.8b **¶97xii4440**
ISC Poorly determined
EIDC Error ellipse is semi−major=52.8km semi−minor=24.3km azimuth=95
EIDC XII 27 14 38 55.5 14.2N 146.4E 0 3.8b **36-60**
¶97xii5303
EIDC Origin time error = 28.97Error ellipse is semi−major=685.4km semi−minor=36.8km azimuth=62
ISC XII 28 03 21 12±3.8 **19.1N**±.73 **145.5E**±.30 **250** **3.8b** **8 24-88**
EIDC XII 28 03 21 04.3±7.65 18.8N 145.6E 175±76.0 3.7b **¶97xii5386**
EIDC Error ellipse is semi−major=48.8km semi−minor=23.1km azimuth=64
ISC XII 28 22 31 23.0±.43 **18.57N**±.062 **146.8E**±.13 **33** **4.1b,**3.3s **29 19-92**
EIDC XII 28 22 31 19.6±.67 18.5N 147.0E 0 4.1b,3.3s **¶97xii5505**
BJI XII 28 22 31 22.8 18.60N 146.80E 33 4.9b
NEIC XII 28 22 31 22.8 18.56N 146.85E 33 4.3b
EIDC Error ellipse is semi−major=25.1km semi−minor=14.0km azimuth=95
NEIC Less reliable solution.
ISC XII 29 15 49 22±2.0 **15.90N**±.078 **146.1E**±.14 **43**±17 **4.1b** **29 3-144**
NEIC XII 29 15 49 20.3 15.92N 146.25E 33 4.0b **¶97xii5608**
EIDC XII 29 15 49 37.6±9.65 15.8N 146.0E 176±93.7 3.6b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=32.0km semi−minor=15.6km azimuth=86

SEISMIC REGION 19.
JAPAN-KURILS-KAMCHATKA.

(217) Kamchatka.

ISC VII 15 06 18 49.8±.48 **52.09N**±.088 **157.4E**±.13 **146**±4.7 **4.1b** **39 1-73**
NEIC VII 15 06 18 48.5 52.28N 157.14E 135 4.3b **¶97vii2262**
KRSC VII 15 06 18 49.8 52.05N 157.57E 143 3.7b
MOS VII 15 06 18 50.0 52.1N 157.5E 144 4.3b
EIDC VII 15 06 18 50.9 52.4N 157.1E 137 3.8b
NEIC Less reliable solution.
ISC VIII 05 01 14 38.3±.65 **54.6N**±.12 **158.0E**±.25 **278**±7.7 **3.4b** **18 1-85**
EIDC VIII 05 01 14 03.2 53.5N 157.0E 0 3.6b **¶97viii0591**
NEIC VIII 05 01 14 06.0 53.57N 157.06E 33 4.1b
KRSC VIII 05 01 14 37.8 54.49N 158.46E 302 4.0b
NEIC Poor solution.
ISC VIII 23 18 41 50.0±.45 **55.57N**±.064 **160.7E**±.14 **153**±5.2 **3.7b** **25 1-84**
KRSC VIII 23 18 41 49.9 55.57N 160.78E 156 3.8b **¶97viii3438**
NEIC VIII 23 18 41 55.5 55.75N 160.42E 200 3.4b
EIDC VIII 23 18 41 57.5 55.7N 160.4E 202 3.5b
NEIC Less reliable solution.
EIDC IX 16 02 12 31.3 53.3N 157.8E 0 4.1b **¶97ix2314**
ISC IX 21 11 14 32.9±.42 **55.56N**±.060 **161.0E**±.11 **133**±4.7 **3.8b** **42 1-145**
NEIC IX 21 11 14 32.6 55.76N 160.86E 124 4.1b **¶97ix3088**
KRSC IX 21 11 14 32.8 55.53N 161.06E 129 4.0b
EIDC IX 21 11 14 34.3 55.7N 160.9E 125 3.6b
NEIC Less reliable solution.
ISC X 22 17 41 53.8±.41 **53.47N**±.067 **158.0E**±.12 **190**±4.9 **3.9b** **34 1-80**
KRSC X 22 17 41 53.5 53.36N 158.26E 193 3.8b **¶97x3859**
MOS X 22 17 41 53.6 53.5N 157.9E 187 4.8b
NEIC X 22 17 41 55.2 53.62N 157.89E 200 4.6b
EIDC X 22 17 41 57.1 53.6N 157.9E 200 3.5b
ISC X 31 16 37 49.4±.62 **51.5N**±.10 **156.6E**±.15 **143**±6.0 **4.1b** **22 0-146**
NEIC X 31 16 37 45.1 51.49N 156.70E 100 4.5b **¶97x5205**
KRSC X 31 16 37 48.8 51.27N 156.97E 144 4.2b
EIDC X 31 16 37 51.9 51.5N 156.5E 152 3.8b
ISC XI 11 01 54 07.1±.57 **53.1N**±.13 **157.6E**±.18 **168**±6.9 **3.9b** **23 1-75**
EIDC XI 11 01 54 03.7 53.0N 157.2E 129 3.8b **¶97xi1708**
KRSC XI 11 01 54 07.0 52.84N 158.01E 175 3.9b
NEIC XI 11 01 54 15.4 53.22N 157.48E 250 4.0b
NEIC Less reliable solution.
ISC XI 29 01 45 45±1.0 **56.1N**±.18 **160.9E**±.29 **180** **6 0-2**
KRSC XI 29 01 45 44.6 56.10N 160.89E 180 3.7b **¶97xi5171**
EIDC XII 05 12 15 13.9±1.34 **58.0N 157.5E 0 4.3b,**4.1L **25-70**
¶97xii0855
EIDC Error ellipse is semi−major=42.5km semi−minor=27.3km azimuth=117
ISC XII 05 15 28 30.6±.92 **55.2N**±.17 **160.8E**±.25 **33** **4.0b** **10 24-69**
EIDC XII 05 15 28 27.5±1.10 55.1N 160.8E 0 3.9b **¶97xii0929**
NEIC XII 05 15 28 30.4 55.21N 160.82E 33 4.3b
EIDC Error ellipse is semi−major=37.4km semi−minor=20.9km azimuth=151
NEIC Less reliable solution.
EIDC XII 05 17 09 32.9±1.45 **56.9N 160.9E 0 4.3b,**4.2L **25-69**
¶97xii0976
EIDC Error ellipse is semi−major=49.7km semi−minor=26.5km azimuth=132
ISC XII 05 18 51 19±1.1 **54.7N**±.19 **158.5E**±.38 **33** **5.1b** **8 23-73**
EIDC XII 05 18 51 15.5 54.7N 158.8E 0 5.2b **¶97xii1026**
EIDC Origin time error = 10.25Error ellipse is semi−major=293.6km semi−minor=27.8km azimuth=109Aftershock: abbreviated analysis
EIDC XII 05 20 14 44.0±6.39 **55.1N 158.1E 0 4.3b,**4.3L **23-72**
¶97xii1072
EIDC Error ellipse is semi−major=198.3km semi−minor=19.0km azimuth=112Aftershock: abbreviated analysis
ISC XII 05 20 54 37.6±.88 **54.8N**±.19 **158.8E**±.24 **33** **3.8b** **8 23-71**
EIDC XII 05 20 54 34.5±.93 54.8N 158.8E 0 3.8b **¶97xii1089**
EIDC Error ellipse is semi−major=34.8km semi−minor=17.0km azimuth=152Aftershock: abbreviated analysis
KRSC XII 17 03 22 34.3 54.76N 158.80E 356 3.9b **¶97xii3545**
ISC XII 25 19 30 27.1±.34 **53.01N**±.055 **156.93E**±.061 **215**±3.5 **4.1b** **95 1-146**
KRSC XII 25 19 30 26.2 52.72N 157.57E 238 4.2b **¶97xii4980**
MOS XII 25 19 30 26.9 53.0N 157.1E 213 4.5b
EIDC XII 25 19 30 29.2±1.04 53.0N 157.0E 221±9.9 3.8b
NEIC XII 25 19 30 29.7 53.10N 156.91E 242 4.3b
BJI XII 25 19 30 29.8 52.88N 157.17E 262 4.4b
EIDC Error ellipse is semi−major=17.8km semi−minor=11.4km azimuth=138

(218) Near east coast of Kamchatka.

ISC VII 03 05 57 34.7±.90 **52.4N**±.21 **158.5E**±.27 **33** **3.5b** **6 21-75**
EIDC VII 03 05 57 31.6 52.4N 158.5E 0 3.6b **¶97vii0365**
NEIC VII 03 05 57 34.5 52.41N 158.55E 33
NEIC Less reliable solution.
ISC VII 07 14 34 46.8±.66 **53.36N**±.075 **160.4E**±.16 **74**±6.4 **3.5b** **23 0-80**
EIDC VII 07 14 34 39.6 53.5N 159.8E 0 3.6b **¶97vii1057**
NEIC VII 07 14 34 42.6 53.56N 160.01E 33 4.4b
KRSC VII 07 14 34 47.3 53.31N 160.49E 46 3.9b
NEIC Less reliable solution.
ISC VII 08 08 17 47±2.4 **54.28N**±.076 **161.8E**±.17 **19**±24 **12 1-4**
KRSC VII 08 08 17 47.4 54.31N 161.72E 21 3.9b **¶97vii1154**
ISC VII 20 04 02 13.3±.56 **53.0N**±.15 **158.4E**±.23 **138**±6.9 **3.5b** **16 0-72**
EIDC VII 20 04 02 00.4 53.3N 158.3E 0 3.7b,4.1s **¶97vii3009**
NEIC VII 20 04 02 10.1 53.26N 158.29E 100
KRSC VII 20 04 02 13.7 52.80N 158.68E 132 3.7b

Agency		Origin Time mo d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
NEIC		Less reliable solution.						
ISC	**VII**	**26 23 12 31**±1.3	**56.0N**±.13	**161.5E**±.18	**22**		**5**	**1-3**
KRSC	VII	26 23 12 31.1	56.02N	161.49E	22	3.8b		¶97vii4026
ISC		Poorly determined						
ISC	**VIII**	**01 04 27 50**±2.5	**56.2N**±.16	**163.4E**±.18	**5**±20		**10**	**0-5**
KRSC	VIII	01 04 27 50.8	56.19N	163.20E	10	4.0b		¶97viii0025
ISC	**VIII**	**02 17 30 04.3**±.99	**54.93N**±.070	**162.1E**±.19	**46**±9.8	**3.6b**	**22**	**1-143**
KRSC	VIII	02 17 30 02.6	54.86N	162.33E	25	4.2b		¶97viii0240
NEIC	VIII	02 17 30 10.1	55.02N	162.11E	100			
EIDC	VIII	02 17 30 14.4	55.0N	162.1E	121	3.3b		
NEIC		Less reliable solution.						
ISC	**VIII**	**08 11 31 37.5**±.86	**51.05N**±.069	**157.99E**±.089	**55**±6.8	**4.2b,3.2s**	**67**	**1-145**
NEIC	VIII	08 11 31 34.8	51.08N	157.97E	33	4.5b		¶97viii1107
MOS	VIII	08 11 31 35.0	50.9N	158.3E	33	4.9b		
EIDC	VIII	08 11 31 37.0	51.2N	157.9E	34	3.9b,3.2s		
KRSC	VIII	08 11 31 37.2	50.93N	158.21E	40	4.6b		
ISC	**VIII**	**11 00 35 05.3**±.82	**51.79N**±.080	**158.6E**±.14	**62**±5.7	**4.0b**	**49**	**1-88**
EIDC	VIII	11 00 34 59.3	52.0N	158.4E	0	4.0b,3.8L		¶97viii1482
NEIC	VIII	11 00 35 02.3	51.91N	158.52E	33	4.4b		
MOS	VIII	11 00 35 03.7	52.0N	158.5E	40	4.7b		
KRSC	VIII	11 00 35 04.9	51.69N	158.66E	40	4.3b		
ISC	**VIII**	**13 01 23 03**±2.8	**56.3N**±.23	**162.0E**±.16	**84**±35		**9**	**0-4**
KRSC	VIII	13 01 23 03.4	56.29N	161.88E	77	3.7b		¶97viii1836
ISC	**VIII**	**22 21 17 00**±3.3	**53.2N**±.62	**158.2E**±.35	**33**	**3.7b**	**7**	**30-86**
EIDC	VIII	22 21 16 55.0	52.9N	158.1E	0	3.8b		¶97viii3287
ISC	**VIII**	**23 07 17 59.3**±.76	**52.32N**±.089	**159.0E**±.18	**75**±6.6	**3.7b**	**25**	**0-145**
KRSC	VIII	23 07 17 58.9	52.22N	159.30E	41	4.1b		¶97viii3360
NEIC	VIII	23 07 17 59.5	52.43N	158.92E	75	4.2b		
EIDC	VIII	23 07 18 01.7	52.4N	158.9E	78	3.5b		
NEIC		Less reliable solution.						
EIDC	**VIII**	**28 06 00 15.2**	**53.8N**	**160.6E**	**0**	**3.6b**,3.9L		**18-70**
								¶97viii4092
ISC	**IX**	**01 14 07 02.3**±.52	**53.53N**±.037	**160.62E**±.067	**52**±4.4	**4.8b,4.2s**	**209**	**1-144**
BJI	IX	01 14 06 57.0	53.60N	160.70E	33	4.7b,4.0s		¶97ix0110
NEIC	IX	01 14 07 00.0	53.57N	160.69E	33	4.9b		
MOS	IX	01 14 07 00.5	53.7N	160.7E	33	5.2b		
EIDC	IX	01 14 07 02.7	53.7N	160.5E	37	4.3b,4.3L		
KRSC	IX	01 14 07 02.9	53.50N	160.71E	40	4.8b		
KRSC		Felt I=III MSK, Kronoki						
ISC	**IX**	**05 16 29 18**±1.4	**54.4N**±.41	**160.6E**±.43	**33**	**3.5b**	**4**	**18-70**
EIDC	IX	05 16 29 15.6	54.5N	160.6E	0	3.7b,3.6L		¶97ix0770
ISC		Poorly determined						
ISC	**IX**	**06 10 39 00.6**±.90	**53.71N**±.091	**160.9E**±.21	**40**		**11**	**1-4**
KRSC	IX	06 10 39 01.2	53.74N	160.77E	40	3.8b		¶97ix0902
ISC	**IX**	**11 02 16 30**±1.5	**52.8N**±.26	**158.3E**±.53	**157**	**3.8b**	**13**	**0-145**
EIDC	IX	11 02 16 17.4	52.3N	160.0E	0	3.9b		¶97ix1614
KRSC	IX	11 02 16 29.4	52.85N	158.17E	157	3.7b		
ISC	**IX**	**18 11 46 53**±2.0	**55.32N**±.099	**161.2E**±.17	**118**±32		**10**	**1-3**
KRSC	IX	18 11 46 52.7	55.35N	161.22E	112	3.8b		¶97ix2650
ISC	**IX**	**19 09 33 45.8**±.53	**56.20N**±.078	**163.05E**±.092	**8**	**3.9b**	**19**	**0-83**
KRSC	IX	19 09 33 43.8	56.44N	163.08E	8	4.4b		¶97ix2773
EIDC	IX	19 09 33 49.1	56.6N	162.6E	20	3.6b		
ISC	**IX**	**24 02 32 18.8**±.86	**56.29N**±.066	**162.55E**±.091	**30**±7.0	**4.2b**	**45**	**0-83**
EIDC	IX	24 02 32 16.2	56.1N	162.9E	0	4.1b		¶97ix3514
KRSC	IX	24 02 32 16.8	56.50N	162.61E	30	4.6b		
MOS	IX	24 02 32 19.2	56.1N	163.1E	27	4.5b		
NEIC	IX	24 02 32 19.4	56.20N	162.73E	33	4.4b		
KRSC		Felt I=II MSK, Ust−Kamchatskiy						
NEIC		Less reliable solution.						
ISC	**X**	**01 23 40 19.7**±.70	**53.1N**±.23	**159.0E**±.34	**132**	**3.5b**	**12**	**0-71**
EIDC	X	01 23 40 07.8	52.8N	159.7E	0	3.7b		¶97x0176
KRSC	X	01 23 40 18.8	53.13N	158.74E	132	3.7b		
ISC	**X**	**02 14 29 04.2**±.73	**54.01N**±.053	**161.2E**±.11	**53**±6.9	**4.1b**	**45**	**1-144**
EIDC	X	02 14 28 58.9	54.0N	161.3E	0	4.1b,4.6L		¶97x0296
NEIC	X	02 14 29 02.0	54.12N	161.24E	33	4.3b		
MOS	X	02 14 29 02.6	54.1N	161.2E	33	4.5b		
KRSC	X	02 14 29 04.4	53.98N	161.14E	28	4.5b		
KRSC		Felt I=III−IV MSK, Kronoki						
KRSC	**X**	**06 18 32 15.9**	**56.37N**	**163.05E**	**16**	**3.8b**		¶97x1097
ISC	**X**	**14 16 09 01.9**±.89	**56.30N**±.052	**162.58E**±.081	**30**±6.7	**4.6b**	**72**	**0-146**
KRSC	X	14 16 08 56.8	56.38N	163.36E	14	5.1b		¶97x2439
MOS	X	14 16 08 58.9	56.3N	162.8E	10	4.8b		
BJI	X	14 16 09 01.4	56.59N	161.99E	17	4.9b		
NEIC	X	14 16 09 01.8	56.36N	162.36E	33	4.7b		
EIDC	X	14 16 09 02.4	56.2N	162.6E	24	4.3b,4.8L		
KRSC		Felt I=III−IV MSK Myth Afrika, IV Ust−Kamchatsk, IV−V Krutoberegovo						
ISC	**X**	**14 19 38 48**±1.9	**54.82N**±.077	**162.1E**±.16	**25**±20		**10**	**1-6**
MOS	X	14 19 38 47.9	54.8N	162.1E	24	4.0b		¶97x2479
KRSC	X	14 19 38 48.1	54.86N	161.99E	21	3.9b		
ISC	**X**	**21 16 55 51.5**±.76	**55.16N**±.075	**162.8E**±.14	**66**±8.6	**3.5b**	**16**	**1-82**
NEIC	X	21 16 55 48.7	55.44N	162.46E	33			¶97x3681
EIDC	X	21 16 55 50.1	55.4N	162.5E	30	3.5b,3.0s		
KRSC	X	21 16 55 51.6	55.13N	162.84E	35	4.1b		
NEIC		Single network solution.						
ISC	**XI**	**08 15 50 55**±1.0	**53.3N**±.19	**159.8E**±.29	**33**	**3.7b**	**7**	**23-71**
EIDC	XI	08 15 50 52.0	53.2N	159.8E	0	3.8b		¶97xi1309
NEIC	XI	08 15 50 55.0	53.27N	159.78E	33			
NEIC		Less reliable solution.						
ISC	**XI**	**12 05 28 51.9**±.56	**55.50N**±.064	**161.9E**±.14	**74**±10	**3.4b**	**16**	**1-69**
EIDC	XI	12 05 28 48.8	55.4N	163.2E	0	3.7b,3.4s		¶97xi1942
KRSC	XI	12 05 28 51.5	55.52N	161.88E	73	3.8b		
EIDC	**XI**	**19 16 19 10.3**	**53.4N**	**160.0E**	**0**	**3.7b**		¶97xi3255
ISC	**XI**	**25 14 54 52**±1.7	**54.29N**±.080	**160.6E**±.27	**72**±37		**12**	**0-3**
KRSC	XI	25 14 54 51.3	54.26N	160.74E	85	3.8b		¶97xi4536
ISC	**XI**	**25 17 41 09**±2.6	**53.8N**±.13	**160.4E**±.28	**94**±37		**11**	**1-3**
KRSC	XI	25 17 41 09.5	53.78N	160.41E	75	3.7b		¶97xi4554
ISC	**XI**	**28 05 17 52.2**±.62	**53.39N**±.062	**160.4E**±.12	**57**±5.1	**4.0b**,3.2s	**44**	**0-80**
NEIC	XI	28 05 17 52.2	53.49N	160.40E	55	4.6b		¶97xi5016
MOS	XI	28 05 17 52.7	53.3N	160.3E	60	4.8b		
KRSC	XI	28 05 17 53.0	53.38N	160.42E	36	4.2b		
EIDC	XI	28 05 17 56.5	53.5N	160.3E	80	3.6b,3.2s		
NEIC		Less reliable solution.						
ISC	**XI**	**28 08 03 50.1**±.72	**55.90N**±.066	**162.5E**±.16	**55**±10	**3.9b**	**22**	**0-68**
MOS	XI	28 08 03 49.1	55.9N	162.8E	37	4.2b		¶97xi5034
KRSC	XI	28 08 03 49.8	55.88N	162.50E	56	4.1b		
EIDC	XI	28 08 04 19.1	56.9N	163.0E	263	3.4b		
ISC	**XI**	**29 03 36 00**±1.2	**56.18N**±.083	**162.6E**±.20	**10**		**9**	**0-4**
KRSC	XI	29 03 35 59.0	56.34N	162.65E	10	3.8b		¶97xi5189
ISC	**XII**	**01 17 45 52**±5.0	**54.7N**±.14	**162.3E**±.91	**48**±28		**8**	**0-3**
KRSC	XII	01 17 45 50.6	54.72N	162.54E	34	3.7b		¶97xii0117
ISC	**XII**	**01 21 53 28**±4.7	**55.4N**±.75	**162.3E**±.59	**33**	**3.4b**	**4**	**26-69**
EIDC	XII	01 21 53 24.8±4.62	55.2N	162.4E	0	3.5b		¶97xii0153
ISC		Poorly determined						
EIDC		Error ellipse is semi−major=111.5km semi−minor=42.0km azimuth=13						
ISC	**XII**	**03 13 37 53.2**±.68	**55.14N**±.050	**162.58E**±.099	**50**±6.8	**4.3b,4.6s**	**51**	**1-85**
EIDC	XII	03 13 37 48.3±.65	55.1N	162.7E	0	4.2b,4.5s		¶97xii0430
BJI	XII	03 13 37 49.9	55.34N	162.52E	33			
KRSC	XII	03 13 37 51.2	55.09N	162.72E	14	4.7b		
NEIC	XII	03 13 37 51.6	55.21N	162.54E	33	4.6b		
MOS	XII	03 13 37 52.0	55.3N	162.6E	33	4.9b		
EIDC		Error ellipse is semi−major=21.5km semi−minor=13.7km azimuth=143						
NEIC		Less reliable solution.						
ISC	**XII**	**03 13 41 06.5**±.71	**55.16N**±.054	**162.6E**±.11	**49**±7.2	**4.2b,4.4s**	**51**	**1-85**
KRSC	XII	03 13 41 01.8	55.05N	162.98E	6	4.9b		¶97xii0431
EIDC	XII	03 13 41 01.9±.67	55.2N	162.6E	0	4.1b,4.2s		
BJI	XII	03 13 41 04.3	55.42N	162.27E	33	4.9b,5.4s		
NEIC	XII	03 13 41 05.2	55.31N	162.49E	33	4.4b		
MOS	XII	03 13 41 05.6	55.3N	162.5E	33	4.9b		
EIDC		Error ellipse is semi−major=22.5km semi−minor=13.6km azimuth=139						
ISC	**XII**	**03 13 53 39**±1.0	**55.10N**±.061	**162.8E**±.17	**44**±9.9	**3.8b**	**29**	**1-85**
EIDC	XII	03 13 53 34.6±.74	55.2N	162.7E	0	3.8b		¶97xii0433
KRSC	XII	03 13 53 36.1	55.09N	162.80E	6	4.6b		
NEIC	XII	03 13 53 38.0	55.23N	162.75E	33	4.2b		
EIDC		Error ellipse is semi−major=28.1km semi−minor=17.4km azimuth=144						
NEIC		Less reliable solution.						
ISC	**XII**	**03 19 17 16**±3.9	**55.07N**±.067	**163.0E**±.26	**32**±29	**3.9b**	**19**	**1-82**
KRSC	XII	03 19 17 13.5	55.05N	162.88E	9	4.4b		¶97xii0485
NEIC	XII	03 19 17 15.5	55.31N	162.71E	33			
EIDC	XII	03 19 17 19.8±6.69	55.1N	163.0E	55±62.6	3.7b,3.6s		
NEIC		Poor solution.						
EIDC		Error ellipse is semi−major=41.5km semi−minor=19.5km azimuth=120						
ISC	**XII**	**04 04 15 04**±4.2	**54.96N**±.081	**163.0E**±.15	**11**±30	**4.3b**	**17**	**1-90**
KRSC	XII	04 04 15 03.2	54.96N	163.01E	11	4.2b		¶97xii0554
EIDC	XII	04 04 15 27.7	55.3N	162.0E	212±123.4	3.4b		
EIDC		Origin time error = 12.13Error ellipse is semi−major=50.3km semi−minor=26.2km azimuth=123						
ISC	**XII**	**04 13 40 49.5**±.93	**55.03N**±.063	**162.6E**±.15	**45**±9.7	**3.8b**	**29**	**1-85**
KRSC	XII	04 13 40 46.4	55.01N	162.93E	16	4.2b		¶97xii0622
NEIC	XII	04 13 40 48.3	55.15N	162.46E	33	4.4b		
MOS	XII	04 13 40 48.8	55.1N	162.7E	33	4.6b		
EIDC	XII	04 13 40 52.3±.70	55.1N	162.4E	53±6.1	3.6b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=22.8km semi−minor=13.7km azimuth=151						
ISC	**XII**	**04 20 01 41.0**±.86	**55.06N**±.055	**162.7E**±.13	**46**±8.2	**4.0b**,3.5s	**38**	**1-85**
KRSC	XII	04 20 01 38.0	55.00N	163.03E	20	4.6b		¶97xii0682
MOS	XII	04 20 01 39.7	55.1N	163.0E	33	4.7b		
NEIC	XII	04 20 01 39.8	55.19N	162.60E	33	4.4b		
EIDC	XII	04 20 01 42.0±4.14	55.1N	162.6E	34±32.2	3.8b,3.8s		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=25.6km semi−minor=13.9km azimuth=143						
ISC	**XII**	**04 22 01 16**±2.8	**55.02N**±.063	**163.0E**±.12	**14**±19	**4.0b**	**23**	**1-82**
EIDC	XII	04 22 01 15.9±.92	55.2N	162.9E	0	3.9b		¶97xii0698
KRSC	XII	04 22 01 17.1	55.02N	162.88E	19	4.3b		
NEIC	XII	04 22 01 18.6	55.19N	162.86E	33	4.3b		
MOS	XII	04 22 01 18.7	55.1N	162.9E	33	4.5b		
EIDC		Error ellipse is semi−major=34.1km semi−minor=18.2km azimuth=157						
NEIC		Less reliable solution.						
ISC	**XII**	**04 22 33 19.1**±.72	**55.19N**±.055	**162.5E**±.11	**47**±7.2	**4.2b**,4.6s	**56**	**1-85**
KRSC	XII	04 22 33 15.6	55.03N	162.94E	12	4.8b		¶97xii0704
BJI	XII	04 22 33 16.3	55.34N	162.29E	30			
NEIC	XII	04 22 33 17.7	55.23N	162.48E	33	4.4b		
MOS	XII	04 22 33 17.8	55.2N	162.6E	33	4.7b		
EIDC	XII	04 22 33 22.1±.49	55.2N	162.4E	56±3.6	3.9b		
EIDC		Error ellipse is semi−major=15.1km semi−minor=10.0km azimuth=137						
KRSC	**XII**	**04 22 35 10.2**	**55.02N**	**162.98E**	**12**	**4.4b**		¶97xii0705
ISC	**XII**	**04 22 41 51.0**±.61	**55.12N**±.043	**162.56E**±.051	**41**±6.0	**4.8b,5.2s**	**214**	**1-132**
BJI	XII	04 22 41 48.2	55.23N	162.35E	28	5.0b,5.7s		¶97xii0706
KRSC	XII	04 22 41 48.6	55.02N	162.90E	17	5.4b		
NEIC	XII	04 22 41 50.4	55.22N	162.62E	33	5.1b,5.1s		
MOS	XII	04 22 41 50.7	55.2N	162.6E	38	5.4b,5.4s		
EIDC	XII	04 22 41 53.4±.54	55.3N	162.5E	42±3.7	4.4b,5.0L		
HRVD	XII	04 22 41 55.5±.4	54.89N±.05	163.15E±.08	15			
KRSC		Felt I=III MSK Kronoki						
NEIC		Mw5.5(HRV).						
EIDC		Error ellipse is semi−major=14.9km semi−minor=10.3km azimuth=146						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c51; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.61±.05; $M_{\theta\theta}$−0.03±.07; $M_{\phi\phi}$−1.58±.06; $M_{r\theta}$1.00±.21; $M_{r\phi}$1.11±.28; $M_{\theta\phi}$−0.79±.07. Principal Axes: T 2.22,Plg67°,Azm330°; N 0.20, Plg12°,Azm211°; P −2.42,Plg20°,Azm116°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S187°,δ27°,λ63°. NP2:ϕ_S36°,δ66°,λ103°.						
ISC	**XII**	**04 22 46 47.2**±.72	**55.11N**±.061	**162.7E**±.11	**45**±8.1	**4.2b**	**47**	**1-143**
KRSC	XII	04 22 46 44.2	55.03N	162.99E	14	4.5b		¶97xii0707
NEIC	XII	04 22 46 45.8	55.34N	162.48E	33	4.7b		
MOS	XII	04 22 46 46.3	55.1N	162.8E	33	5.0b		
EIDC	XII	04 22 46 52.3±1.42	55.2N	162.7E	75±13.2	4.0b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=30.3km semi−minor=13.4km azimuth=141						
KRSC	**XII**	**04 22 48 34.4**	**55.18N**	**162.52E**	**5**	**3.7b**		¶97xii0708
ISC	**XII**	**04 22 49 20**±2.3	**55.06N**±.084	**162.6E**±.41	**12**		**10**	**1-58**
KRSC	XII	04 22 49 19.2	55.07N	162.69E	12	4.2b		¶97xii0709
ISC	**XII**	**04 22 50 54**±2.4	**55.00N**±.081	**162.9E**±.13	**28**±20	**4.2b**	**23**	**1-85**
KRSC	XII	04 22 50 52.3	54.99N	162.94E	14	4.4b		¶97xii0710
MOS	XII	04 22 50 53.7	55.0N	163.0E	33	4.8b		
NEIC	XII	04 22 50 53.9	55.25N	162.51E	33	4.4b		
EIDC	XII	04 22 50 56.7±1.64	55.2N	162.5E	41±14.8	4.0b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=28.3km semi−minor=17.6km azimuth=136						
ISC	**XII**	**04 23 11 31.2**±.77	**55.11N**±.054	**162.7E**±.11	**43**±7.8	**4.2b**,3.8s	**50**	**1-142**
KRSC	XII	04 23 11 29.8	55.02N	162.91E	22	4.7b		¶97xii0715
MOS	XII	04 23 11 30.2	55.1N	162.8E	33	4.7b		
NEIC	XII	04 23 11 30.2	55.19N	162.60E	33	4.3b		
EIDC	XII	04 23 11 35.1±.56	55.1N	162.7E	61±3.9	3.9b,3.8s		
EIDC		Error ellipse is semi−major=17.8km semi−minor=10.5km azimuth=147						
ISC	**XII**	**04 23 15 05.1**±.81	**55.09N**±.061	**162.9E**±.14	**42**±8.8	**3.9b**	**25**	**1-89**
MOS	XII	04 23 15 03.7	55.4N	162.3E	18	4.6b		¶97xii0717
KRSC	XII	04 23 15 04.2	55.05N	162.86E	19	4.5b		
NEIC	XII	04 23 15 06.2	55.38N	161.96E	33	4.4b		
EIDC	XII	04 23 15 10.3±1.52	55.3N	162.0E	54±10.8	3.7b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=28.5km semi−minor=25.6km azimuth=117						

ISC XII 04 23 59 17.5±.92 **55.1N**±.11 **162.9E**±.18 **24** **9 1-4**
KRSC XII 04 23 59 18.0 55.06N 162.89E 24 3.7b **¶97xii0727**
ISC XII 05 00 06 14±1.0 **55.21N**±.043 **162.39E**±.071 **16**±7.7 **4.6b,4.9s 103 1-145**
KRSC XII 05 00 06 09.1 55.04N 162.96E 0 5.0b **¶97xii0728**
EIDC XII 05 00 06 12.9±.53 55.2N 162.4E 0 4.3b,4.6s
MOS XII 05 00 06 16.2 55.2N 162.5E 33 5.1b,5.0s
NEIC XII 05 00 06 16.3 55.29N 162.42E 33 4.7b,4.8s
BJI XII 05 00 06 16.8 55.55N 161.73E 24 4.7b,5.3s
HRVD XII 05 00 06 23.0±.9 54.89N±.10 163.24E±.13 15
EIDC Error ellipse is semi−major=17.7km semi−minor=12.2km azimuth=146
NEIC Mw5.1(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c28; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.37±.36; $M_{\theta\theta}$−0.68±.48; $M_{\phi\phi}$−3.69±.44; $M_{r\theta}$1.87±1.03; $M_{r\phi}$1.61±1.03; $M_{\theta\phi}$−3.14±.50. Principal Axes: T 5.03,Plg73°,Azm343°; N 1.17,Plg10°,Azm216°; P −6.20,Plg13°,Azm123°. Best double couple: $M_0$5.6×10^{16}Nm, NP1: ϕ_S200°,δ33°,λ71°. NP2:ϕ_S42°,δ59°,λ102°.
ISC XII 05 00 29 56.4±.77 **55.08N**±.066 **162.9E**±.12 **40**±10 **3.9b** **22 1-68**
EIDC XII 05 00 29 54.4±1.08 55.4N 162.8E 0 3.9b **¶97xii0738**
KRSC XII 05 00 29 55.8 55.05N 162.85E 19 4.4b
NEIC XII 05 00 29 57.2 55.46N 162.70E 33
EIDC Error ellipse is semi−major=42.0km semi−minor=18.5km azimuth=150
NEIC Less reliable solution.
KRSC XII 05 00 33 03.4 55.03N 162.92E 19 3.9b ¶97xii0741
ISC XII 05 00 38 55±1.0 **55.03N**±.068 **162.7E**±.19 **55**±12 **3.8b** **20 1-68**
EIDC XII 05 00 38 52.0±2.29 54.5N 162.0E 45±12.5 3.6b **¶97xii0743**
KRSC XII 05 00 38 53.6 55.05N 162.81E 25 4.2b
EIDC Error ellipse is semi−major=58.9km semi−minor=25.9km azimuth=166
ISC XII 05 01 07 29.5±.78 **55.01N**±.064 **163.0E**±.12 **38**±9.7 **4.0b** **25 1-82**
KRSC XII 05 01 07 27.0 55.03N 162.95E 9 4.5b **¶97xii0751**
NEIC XII 05 01 07 29.6 55.39N 162.46E 33 4.3b
EIDC XII 05 01 07 32.7±.68 55.3N 162.6E 46±6.2 3.8b,4.3s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=23.7km semi−minor=15.0km azimuth=134
ISC XII 05 01 10 20.2±.69 **55.20N**±.051 **162.55E**±.081 **43**±7.3 **4.3b,4.7s 76 1-89**
BJI XII 05 01 10 17.3 55.30N 162.66E 33 4.7b,4.8s **¶97xii0753**
KRSC XII 05 01 10 17.4 55.07N 162.93E 15 5.0b
NEIC XII 05 01 10 19.3 55.27N 162.66E 33 4.5b
MOS XII 05 01 10 19.9 55.3N 162.5E 38 4.8b
EIDC XII 05 01 10 26.2±4.54 55.2N 162.7E 83±43.1 4.0b,4.4s
EIDC Error ellipse is semi−major=17.3km semi−minor=11.0km azimuth=149
KRSC XII 05 01 12 33.4 55.10N 162.71E 8 4.0b ¶97xii0754
ISC XII 05 01 27 23.7±.73 **55.15N**±.053 **162.6E**±.11 **49**±7.1 **4.2b** **54 1-85**
BJI XII 05 01 27 18.8 55.60N 162.70E 38 **¶97xii0755**
KRSC XII 05 01 27 20.1 55.03N 162.99E 13 4.7b
NEIC XII 05 01 27 22.2 55.29N 162.48E 33 4.2b
MOS XII 05 01 27 22.7 55.2N 162.5E 33 4.8b
EIDC XII 05 01 27 25.0±.61 55.2N 162.6E 45±5.2 4.0b,4.4L
EIDC Error ellipse is semi−major=17.8km semi−minor=10.3km azimuth=145
ISC XII 05 01 30 06.4±.73 **55.11N**±.053 **162.6E**±.11 **51**±7.1 **4.1b,4.1s 51 1-85**
KRSC XII 05 01 30 03.0 55.05N 162.97E 17 4.7b **¶97xii0757**
NEIC XII 05 01 30 04.6 55.23N 162.48E 33 4.2b
MOS XII 05 01 30 05.4 55.3N 162.4E 33 4.8b
EIDC XII 05 01 30 07.5±.59 55.2N 162.5E 42±5.4 4.0b,4.1s
EIDC Error ellipse is semi−major=16.5km semi−minor=11.4km azimuth=146
ISC XII 05 02 08 07.8±.68 **55.13N**±.059 **162.4E**±.10 **54**±7.0 **4.2b,4.3s 54 1-85**
KRSC XII 05 02 08 03.9 55.04N 162.89E 14 4.8b **¶97xii0762**
NEIC XII 05 02 08 06.1 55.31N 162.28E 33 4.6b
MOS XII 05 02 08 06.4 55.2N 162.5E 33 4.9b
EIDC XII 05 02 08 09.8±.82 55.3N 162.3E 48±6.9 3.9b,4.1s
EIDC Error ellipse is semi−major=25.3km semi−minor=11.9km azimuth=153
ISC XII 05 02 13 55±2.0 **55.09N**±.061 **162.9E**±.11 **32**±16 **4.0b** **34 1-85**
KRSC XII 05 02 13 53.1 55.08N 162.95E 17 4.7b **¶97xii0763**
NEIC XII 05 02 13 54.9 55.16N 162.76E 33 4.5b
MOS XII 05 02 13 55.1 55.1N 162.9E 33 4.6b
EIDC XII 05 02 13 58.6±.65 55.2N 162.7E 48±5.8 3.7b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=17.9km semi−minor=12.3km azimuth=146
ISC XII 05 03 42 35.1±.75 **55.12N**±.058 **162.7E**±.11 **35**±8.4 **4.1b**,3.5s **35 1-85**
KRSC XII 05 03 42 33.3 55.06N 162.80E 18 4.5b **¶97xii0770**
MOS XII 05 03 42 35.0 55.1N 163.0E 33 4.9b
NEIC XII 05 03 42 35.3 55.33N 162.51E 33 4.6b
EIDC XII 05 03 42 45.6±.96 55.2N 162.6E 112±8.2 3.7b,3.5s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=20.2km semi−minor=11.8km azimuth=158
ISC XII 05 04 11 29.5±.78 **55.07N**±.071 **162.8E**±.13 **40**±11 **3.7b** **19 1-68**
EIDC XII 05 04 11 28.2±3.19 55.5N 162.6E 0 3.7b,3.0s **¶97xii0772**
KRSC XII 05 04 11 28.3 55.05N 162.81E 18 4.2b
EIDC Error ellipse is semi−major=90.8km semi−minor=24.2km azimuth=10
ISC XII 05 04 20 29.3±.93 **55.05N**±.073 **162.8E**±.14 **39**±11 **3.7b** **23 1-82**
EIDC XII 05 04 20 25.3±.79 55.1N 162.4E 0 3.7b **¶97xii0774**
KRSC XII 05 04 20 27.8 55.03N 162.87E 18 4.3b
NEIC XII 05 04 20 28.3 55.10N 162.39E 33
EIDC Error ellipse is semi−major=24.8km semi−minor=18.3km azimuth=137
NEIC Less reliable solution.
ISC XII 05 04 34 33±2.2 **55.09N**±.061 **162.9E**±.12 **29**±18 **3.8b** **28 1-85**
EIDC XII 05 04 34 30.4±.83 55.2N 162.4E 0 3.8b,3.5s **¶97xii0778**
KRSC XII 05 04 34 32.1 55.07N 162.94E 16 4.5b
MOS XII 05 04 34 32.8 55.5N 162.2E 24 4.9b
NEIC XII 05 04 34 33.6 55.41N 162.26E 33
EIDC Error ellipse is semi−major=26.1km semi−minor=19.3km azimuth=141
NEIC Less reliable solution.
ISC XII 05 05 33 57.9±.64 **55.07N**±.046 **162.64E**±.083 **49**±6.4 **4.4b,4.2s 79 1-145**
MOS XII 05 05 33 54.0 55.2N 162.6E 15 4.9b **¶97xii0786**
KRSC XII 05 05 33 55.3 55.01N 162.97E 21 5.0b
BJI XII 05 05 33 56.0 55.42N 162.02E 25 4.2b,4.6s
NEIC XII 05 05 33 56.3 55.12N 162.73E 33 4.6b
EIDC XII 05 05 34 02.2±3.95 55.1N 162.6E 68±35.8 4.0b,4.1s
EIDC Error ellipse is semi−major=19.3km semi−minor=12.2km azimuth=148
ISC XII 05 05 56 24±3.8 **54.98N**±.083 **162.9E**±.43 **17**±23 **12 1-4**
KRSC XII 05 05 56 24.2 55.01N 162.88E 20 4.1b **¶97xii0790**
ISC XII 05 06 39 23.9±.69 **55.20N**±.055 **162.5E**±.10 **49**±7.3 **4.3b,4.0s 52 1-85**
EIDC XII 05 06 39 19.6±.62 55.3N 162.5E 0 4.3b,3.8s **¶97xii0796**
KRSC XII 05 06 39 21.6 55.08N 162.94E 24 4.7b
NEIC XII 05 06 39 22.7 55.39N 162.40E 33 4.5b
MOS XII 05 06 39 22.8 55.4N 162.4E 33 4.9b
EIDC Error ellipse is semi−major=19.2km semi−minor=12.6km azimuth=150
ISC XII 05 06 53 14±1.9 **55.10N**±.053 **162.92E**±.091 **26**±15 **4.1b**,4.0s **44 1-132**
KRSC XII 05 06 53 11.6 55.09N 162.95E 7 4.7b **¶97xii0798**
BJI XII 05 06 53 14.7 55.20N 162.70E 33 4.8b,4.9s
NEIC XII 05 06 53 14.7 55.24N 162.74E 33 4.4b
MOS XII 05 06 53 14.8 55.1N 162.8E 33 4.9b
EIDC XII 05 06 53 20.8±3.76 55.2N 162.7E 71±36.0 3.8b,4.1L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=24.5km semi−minor=12.9km azimuth=143
ISC XII 05 07 54 30.9±.73 **55.13N**±.053 **162.5E**±.11 **47**±7.7 **4.2b** **47 1-143**
KRSC XII 05 07 54 29.0 55.07N 162.78E 27 4.7b **¶97xii0803**
MOS XII 05 07 54 29.6 55.1N 162.8E 33 4.7b
NEIC XII 05 07 54 29.7 55.28N 162.40E 33 4.3b
EIDC XII 05 07 54 35.1±5.13 55.2N 162.5E 67±48.5 3.9b,4.0L
EIDC Error ellipse is semi−major=19.8km semi−minor=12.9km azimuth=150
ISC XII 05 07 56 23.8±.72 **55.12N**±.059 **162.5E**±.10 **62**±7.7 **4.4b** **47 1-85**
KRSC XII 05 07 56 19.6 55.07N 162.98E 15 4.8b **¶97xii0805**
MOS XII 05 07 56 21.2 55.4N 162.3E 31 4.6b
NEIC XII 05 07 56 21.5 55.38N 162.38E 33 4.6b
EIDC XII 05 07 56 28.5±.62 55.2N 162.5E 80±4.1 4.1b
EIDC Error ellipse is semi−major=22.7km semi−minor=10.6km azimuth=151
ISC XII 05 08 03 14±2.4 **55.07N**±.078 **163.0E**±.39 **22** **12 1-4**
KRSC XII 05 08 03 13.9 55.06N 162.86E 22 3.9b **¶97xii0807**
ISC XII 05 08 08 52.0±.51 **55.15N**±.037 **162.45E**±.047 **55**±5.1 **5.0b,5.3s 251 1-160**
KRSC XII 05 08 08 47.1 55.07N 162.98E 9 5.2b **¶97xii0808**
BJI XII 05 08 08 48.6 55.37N 162.00E 25 4.9b,5.6s
MOS XII 05 08 08 48.8 55.3N 162.5E 22 5.4b,5.6s
NEIC XII 05 08 08 49.8 55.28N 162.44E 33 5.2b,5.1s
HRVD XII 05 08 08 55.0±.3 54.87N±.04 163.08E±.06 20±2.3
EIDC XII 05 08 08 55.6±3.41 55.2N 162.5E 69±31.7 4.5b,5.2s
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c46; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.26±.04; $M_{\theta\theta}$−0.07±.05; $M_{\phi\phi}$−1.20±.05; $M_{r\theta}$0.92±.14; $M_{r\phi}$1.26±.18; $M_{\theta\phi}$−0.42±.05. Principal Axes: T 2.03,Plg63°,Azm317°; N −0.01, Plg9°,Azm209°; P −2.03,Plg25°,Azm114°. Best double couple: $M_0$2.0×10^{17}Nm, NP1: ϕ_S185°,δ22°,λ64°. NP2:ϕ_S32°,δ71°,λ100°.
EIDC Error ellipse is semi−major=16.4km semi−minor=10.2km azimuth=148
ISC XII 05 08 13 45.5±.95 **55.29N**±.066 **162.5E**±.11 **36**±10 **4.3b**,4.4s **54 1-89**
MOS XII 05 08 13 43.3 55.3N 162.6E 20 4.7b **¶97xii0809**
KRSC XII 05 08 13 44.1 55.04N 163.00E 26 4.9b
NEIC XII 05 08 13 45.0 55.30N 162.52E 33 4.6b
EIDC XII 05 08 13 48.2±3.82 55.2N 162.5E 44±36.8 4.1b,3.9L
EIDC Error ellipse is semi−major=19.4km semi−minor=12.6km azimuth=145
ISC XII 05 11 19 49.3±.79 **55.09N**±.064 **162.9E**±.13 **38**±9.4 **3.8b** **21 1-82**
KRSC XII 05 11 19 48.3 55.07N 162.85E 17 4.4b **¶97xii0831**
NEIC XII 05 11 19 49.0 55.33N 162.50E 33
EIDC XII 05 11 19 52.7±1.10 55.2N 162.7E 48±11.2 3.7b,4.1L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=35.3km semi−minor=16.4km azimuth=135
ISC XII 05 11 26 53.8±.81 **54.80N**±.023 **162.01E**±.029 **25**±5.9 **6.1b,7.4s 859 0-164**
EIDC XII 05 11 26 51.0±.47 54.9N 162.0E 0 5.4b,7.4s **¶97xii0833**
KRSC XII 05 11 26 51.0 54.64N 162.55E 10 6.7b
BJI XII 05 11 26 54.5 54.82N 161.90E 42 5.7b,8.0s
NEIC XII 05 11 26 54.6 54.84N 162.04E 33 6.3b,7.6s
MOS XII 05 11 26 54.8 54.9N 161.9E 33 7.0b,7.9s
HRVD XII 05 11 27 21.3±.1 54.31N±.01 161.91E±.01 34±.3
EIDC Error ellipse is semi−major=16.1km semi−minor=11.0km azimuth=148
KRSC Felt I=IV MSK base Rodnikovaya, III Tigil, III Nachiki, V Paratunka, III Gorodok PVO , III−IV Koryaky, V−VI Rybachiy, II−III Ust−Khayryuzovo, III Apacha, V Mayak Kruglyy, III Paujhetka, III Ozernovskiy, III−IV GMS Vodopadnaya, III Sobolevo, I Ossora, V S−S Berezovaya, II Ust−Bolsheresk, IV Severo−Kurilsk, V Ust−Kamchatsk, VI−VII Kronoki, V Krutoberegovo, V M. Afrika, VI−VII P. Kronoki, VI−VII M. Kozlova, VI−VIII Mayak Kronotskiy, VI−VII Gms Kronoki, IV Nikolskoe, VI Laguna Kalygir, IV Klyuchi, V−VI Zaozernyy, V−VI Petropavlovsk, III Esso, VI−VII M. Shipunskiy, IV Milkovo, IV Kozyrevsk, VI Zhupanovo, V Elizovo
NEIC Mw7.8(HRV), Me7.2(GS). Tsunami generated.
NEIC Radiated energy from the USGS moment tensor solution: 1.5±0.2×10^{15}Nm/24
NEIC Moment tensor solution: s39, scale 10^{20}Nm; M_{rr}1.82; $M_{\theta\theta}$−0.26; $M_{\phi\phi}$−1.55; $M_{r\theta}$2.68; $M_{r\phi}$2.50; $M_{\theta\phi}$−0.88. Depth 10km; Principal axes: T 4.15,Plg57°,Azm327°; N −0.02,Plg9°, Azm223°; P −4.12,Plg31°,Azm127°. Best double couple: $M_0$4.1×10^{20}Nm; NP1:ϕ_S190°,δ16°, λ56°. NP2:ϕ_S45°,δ77°,λ99°.
NEIC Mw 7.7 (GS), 7.5 (OBN). Ms 7.7 (BRK). Felt I=VII MM in the epicentral area and V MM at Petropavlovsk-Kamchatskiy and Ust-Kamchatsk. Felt II MM at Severo-Kurilsk, Paramushir. Also felt aboard the cargo ship Stepan Krasheninnikov in the epicentral area. Tsunami generated with recorded wave heights (peak-to-trough) at the following selected tide stations: 15 cm on Adak and Unalaska, Alaska; 60 cm at Kahului, 52 cm at Haleiwa, 47 cm at Hilo, 30 cm at Hanalei, 12 cm on Midway, 10 cm at Snug Harbor and 5 cm at Honolulu, Hawaii. Complex earthquake with at least one event occurring about 14 seconds after the onset.
MOS Felt I=VI−VII MSK at Mayak Kronotskii; I=V at Ust−Kamchatsk,Petropavlovsk−Kamchatskii; I=II−III at Severo−Kurilsk.
MOS M_O=2.2×10^{20}Nm. Fault plane solution. NP1:ϕ_S193°,δ20°,λ76°. NP2:ϕ_S28°,δ71°,λ95°. Principal axes: T Plg64°,Azm306°; N Plg5°,Azm207°; P Plg26°,Azm114°
MOS Seismic moment Mo=2.2×10^{20}Nm (after OBN)
MOS Focal mechanism: C76,D11; NP1:ϕ_S193°,δ20°,λ76°. NP2:ϕ_S28°,δ71°,λ95°. Principle axes: T Plg64°,Azm306°; N Plg5°,Azm207°; P Plg26°,Azm114°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c90; Mantle waves: s40,c113; Half duration: 17s1. Moment tensor: Scale 10^{20}Nm; M_{rr}3.61±.02; $M_{\theta\theta}$−0.87±.01; $M_{\phi\phi}$−2.74±.01; $M_{r\theta}$2.57±.05; $M_{r\phi}$2.80±.05; $M_{\theta\phi}$−1.79±.01. Principal Axes: T 5.25,Plg66°,Azm321°; N 0.14,Plg6°,Azm217°; P −5.39,Plg23°,Azm124°. Best double couple: $M_0$5.3×10^{20}Nm, NP1:ϕ_S202°,δ23°,λ74°. NP2:ϕ_S39°,δ68°,λ97°.
ISC XII 05 11 37 09.6±.33 **54.53N**±.061 **162.31E**±.075 **33** **5.4b** **127 3-145**
MOS XII 05 11 37 09.3 54.5N 162.3E 33 6.0b **¶97xii0835**
NEIC XII 05 11 37 09.3 54.51N 162.32E 33 5.6b
EIDC XII 05 11 37 10.1±.71 54.7N 162.1E 25±5.2 5.1b,4.9L
EIDC Error ellipse is semi−major=18.7km semi−minor=11.6km azimuth=146
ISC XII 05 11 41 20±2.4 **54.08N**±.079 **161.6E**±.14 **76**±21 **4.7b** **56 8-143**
MOS XII 05 11 41 11.1 53.9N 161.9E 14 5.3b **¶97xii0838**
NEIC XII 05 11 41 14.7 54.14N 161.51E 33 5.1b
EIDC XII 05 11 41 17.0±1.31 54.1N 161.4E 38±11.4 4.6b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=19.0km semi−minor=12.8km azimuth=138
ISC XII 05 11 45 31±1.5 **54.73N**±.077 **162.6E**±.11 **58**±12 **5.1b** **88 2-85**
EIDC XII 05 11 45 24.6±.65 54.7N 162.5E 0 4.8b,4.8L **¶97xii0841**
MOS XII 05 11 45 25.6 54.8N 162.4E 16 5.6b
NEIC XII 05 11 45 28.3 54.80N 162.52E 33 5.3b
KRSC XII 05 11 45 34.4 54.97N 161.97E 11 5.4b
EIDC Error ellipse is semi−major=22.4km semi−minor=14.6km azimuth=140
KRSC Felt I=III M. Shipunskiy
ISC XII 05 11 48 41±1.1 **54.38N**±.047 **162.27E**±.075 **31**±7.5 **5.3b**,7.3s **196 0-143**
EIDC XII 05 11 48 36.9±.61 54.4N 162.2E 0 4.9b,4.6L **¶97xii0842**
KRSC XII 05 11 48 38.5 54.29N 162.46E 10 5.7b
NEIC XII 05 11 48 40.9 54.44N 162.28E 33 5.4b
MOS XII 05 11 48 42.3 54.5N 162.3E 43 5.9b
EIDC Error ellipse is semi−major=21.7km semi−minor=12.8km azimuth=142

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**05 11 51 10**±1.4	**54.03N**±.044	**161.46E**±.083	**30**±9.9	**5.0b**	**146**	**1-163**
KRSC	XII	05 11 51 10.2	53.90N	161.50E	19	5.2b		¶97xii0843
NEIC	XII	05 11 51 10.3	54.06N	161.51E	33	5.1b		
MOS	XII	05 11 51 10.8	54.2N	161.6E	31	5.4b		
BJI	XII	05 11 51 11.7	54.62N	160.51E	21	4.8b		
EIDC	XII	05 11 51 13.7±.55	54.0N	161.5E	49±5.4	4.6b		
EIDC		Error ellipse is semi−major=14.2km semi−minor=9.7km azimuth=144						
ISC	**XII**	**05 11 53 11**±1.1	**54.62N**±.061	**161.3E**±.12	**26**±8.5	**4.8b**	**80**	**0-132**
KRSC	XII	05 11 53 06.8	54.29N	162.46E	33	5.0b		¶97xii0845
MOS	XII	05 11 53 12.1	54.7N	161.3E	33	5.2b		
NEIC	XII	05 11 53 12.4	54.70N	161.40E	33	5.1b		
EIDC	XII	05 11 53 15.0±1.26	54.6N	161.4E	42±11.5	4.4b		
EIDC		Error ellipse is semi−major=20.1km semi−minor=14.9km azimuth=129						
ISC	**XII**	**05 12 09 20**±1.4	**54.51N**±.098	**162.6E**±.22	**51**±13	**3.9b**	**16**	**0-82**
EIDC	XII	05 12 09 16.8±.88	54.9N	162.3E	0	4.0b		¶97xii0852
KRSC	XII	05 12 09 17.1	54.42N	163.06E	40	4.5b		
NEIC	XII	05 12 09 19.6	54.98N	162.22E	33	4.1b		
EIDC		Error ellipse is semi−major=39.9km semi−minor=18.2km azimuth=143						
NEIC		Less reliable solution.						
ISC	**XII**	**05 12 10 30**±3.1	**54.45N**±.065	**162.26E**±.077	**31**±23	**4.8b**	**82**	**5-85**
BJI	XII	05 12 10 29.2	54.87N	161.66E	19	4.8b		¶97xii0853
MOS	XII	05 12 10 30.2	54.4N	162.4E	28	5.2b		
NEIC	XII	05 12 10 30.6	54.44N	162.34E	33	5.0b		
EIDC	XII	05 12 10 34.9±3.92	54.5N	162.3E	56±36.6	4.4b,4.9L		
EIDC		Error ellipse is semi−major=18.7km semi−minor=11.3km azimuth=146						
ISC	**XII**	**05 12 18 17**±2.8	**54.65N**±.095	**162.4E**±.12	**68**±26	**4.2b**	**35**	**8-82**
NEIC	XII	05 12 18 13.4	54.61N	162.49E	33	4.6b		¶97xii0858
EIDC	XII	05 12 18 14.7±.78	54.5N	162.6E	30±5.2	4.0b		
EIDC		Error ellipse is semi−major=19.4km semi−minor=12.2km azimuth=156						
ISC	**XII**	**05 12 18 36**±1.3	**54.58N**±.062	**161.83E**±.099	**59**±13	**4.7b**	**73**	**2-143**
NEIC	XII	05 12 18 33.4	54.66N	161.79E	33	4.9b		¶97xii0859
MOS	XII	05 12 18 33.9	54.7N	162.1E	33	5.1b		
EIDC	XII	05 12 18 34.3±1.03	54.6N	161.8E	28±7.1	4.4b		
EIDC		Error ellipse is semi−major=18.6km semi−minor=12.3km azimuth=146						
ISC	**XII**	**05 12 20 50.4**±.57	**54.65N**±.078	**163.0E**±.13	**40**	**4.2b**	**27**	**2-142**
KRSC	XII	05 12 20 49.5	54.50N	163.10E	40	4.6b		¶97xii0860
EIDC	XII	05 12 20 58.5±1.65	52.3N	162.4E	0	4.1b		
NEIC	XII	05 12 20 59.5	56.35N	163.66E	33	4.6b		
EIDC		Error ellipse is semi−major=57.3km semi−minor=21.0km azimuth=107						
NEIC		Less reliable solution.						
ISC	**XII**	**05 12 23 56**±1.2	**54.0N**±.28	**160.9E**±.55	**0**		**5**	**1-2**
KRSC	XII	05 12 23 53.8	53.75N	161.41E	0	4.7b		¶97xii0862
ISC	**XII**	**05 12 28 11**±1.0	**54.23N**±.070	**161.4E**±.23	**56**±7.5	**3.9b**	**21**	**0-86**
NEIC	XII	05 12 28 07.7	54.41N	161.74E	33			¶97xii0863
EIDC	XII	05 12 28 07.7±1.48	54.3N	161.9E	22±7.5	3.9b,4.2L		
KRSC	XII	05 12 28 12.1	54.23N	161.31E	33	4.4b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=33.5km semi−minor=18.4km azimuth=117						
ISC	**XII**	**05 12 37 30.9**±.86	**54.46N**±.064	**162.2E**±.12	**39**±8.4	**4.5b**	**47**	**0-82**
KRSC	XII	05 12 37 28.3	54.29N	162.52E	15	4.7b		¶97xii0866
NEIC	XII	05 12 37 30.4	54.54N	162.23E	33	4.6b		
MOS	XII	05 12 37 30.8	54.5N	162.3E	35	4.8b		
EIDC	XII	05 12 37 31.2±.67	54.5N	162.1E	25±5.1	4.2b,4.5L		
EIDC		Error ellipse is semi−major=19.4km semi−minor=13.2km azimuth=144						
ISC	**XII**	**05 12 43 05**±3.2	**54.4N**±.15	**161.7E**±.93	**32**±23		**8**	**0-3**
KRSC	XII	05 12 43 03.9	54.34N	161.94E	30	4.3b		¶97xii0868
ISC	**XII**	**05 12 50 52.6**±.74	**54.2N**±.17	**160.9E**±.30	**33**	**3.7b**	**9**	**24-81**
EIDC	XII	05 12 50 49.3±.82	54.1N	160.9E	0	3.8b		¶97xii0872
EIDC		Error ellipse is semi−major=35.4km semi−minor=17.9km azimuth=132						
ISC	**XII**	**05 12 51 26.5**±.66	**54.0N**±.19	**161.6E**±.29	**33**	**3.8b**	**10**	**24-81**
EIDC	XII	05 12 51 23.2±.76	53.9N	161.6E	0	3.9b		¶97xii0873
NEIC	XII	05 12 51 26.5	54.02N	161.61E	33			
EIDC		Error ellipse is semi−major=37.2km semi−minor=16.7km azimuth=140						
NEIC		Less reliable solution.						
ISC	**XII**	**05 12 53 41.4**±.70	**54.26N**±.053	**161.3E**±.14	**62**±5.7	**4.3b**	**50**	**0-86**
MOS	XII	05 12 53 36.7	54.4N	161.7E	21	4.9b		¶97xii0874
NEIC	XII	05 12 53 38.7	54.41N	161.24E	33	4.7b		
KRSC	XII	05 12 53 41.6	54.16N	161.40E	38	4.7b		
EIDC	XII	05 12 53 44.7±3.99	54.4N	161.2E	72±36.2	4.0b,4.3L		
EIDC		Error ellipse is semi−major=21.6km semi−minor=12.6km azimuth=124						
ISC	**XII**	**05 13 00 01**±1.1	**54.03N**±.084	**161.0E**±.24	**23**		**9**	**1-2**
KRSC	XII	05 13 00 00.7	53.99N	161.12E	23	4.0b		¶97xii0877
ISC	**XII**	**05 13 02 19.9**±.77	**54.60N**±.058	**162.4E**±.11	**42**±7.4	**4.3b**	**47**	**0-85**
KRSC	XII	05 13 02 15.2	54.51N	162.77E	8	4.9b		¶97xii0878
EIDC	XII	05 13 02 16.0±.63	54.6N	162.4E	0	4.3b,4.7L		
MOS	XII	05 13 02 17.8	54.6N	162.2E	27	4.7b		
NEIC	XII	05 13 02 19.0	54.70N	162.32E	33	4.5b		
EIDC		Error ellipse is semi−major=22.5km semi−minor=12.7km azimuth=144						
ISC	**XII**	**05 13 05 31**±1.3	**54.55N**±.070	**162.0E**±.26	**50**±9.7	**3.8b**	**19**	**0-82**
EIDC	XII	05 13 05 26.2±1.10	54.6N	162.0E	0	3.9b		¶97xii0879
NEIC	XII	05 13 05 29.4	54.68N	161.97E	33			
KRSC	XII	05 13 05 32.0	54.53N	161.88E	41	4.3b		
EIDC		Error ellipse is semi−major=41.8km semi−minor=20.8km azimuth=113						
NEIC		Less reliable solution.						
ISC	**XII**	**05 13 10 25**±1.4	**54.6N**±.10	**161.5E**±.63	**32**±27		**7**	**0-2**
KRSC	XII	05 13 10 23.1	54.54N	161.89E	46	4.0b		¶97xii0881
ISC	**XII**	**05 13 12 43**±1.0	**54.09N**±.081	**161.2E**±.14	**52**±11	**4.1b**	**30**	**1-81**
EIDC	XII	05 13 12 37.8±.70	54.1N	161.3E	0	4.1b,4.3L		¶97xii0882
NEIC	XII	05 13 12 40.9	54.09N	161.26E	33	4.3b		
MOS	XII	05 13 12 41.4	54.1N	161.3E	33	4.7b		
KRSC	XII	05 13 12 45.4	53.73N	160.80E	2	4.5b		
EIDC		Error ellipse is semi−major=30.4km semi−minor=14.4km azimuth=140						
NEIC		Less reliable solution.						
ISC	**XII**	**05 13 14 37**±1.1	**54.36N**±.061	**162.5E**±.15	**43**±9.5	**4.1b**	**37**	**0-82**
EIDC	XII	05 13 14 33.1±.69	54.5N	162.2E	0	4.0b,4.5L		¶97xii0883
KRSC	XII	05 13 14 34.5	54.26N	162.50E	11	4.8b		
NEIC	XII	05 13 14 36.0	54.45N	162.47E	33	4.7b		
MOS	XII	05 13 14 36.1	54.4N	162.6E	33	4.8b		
EIDC		Error ellipse is semi−major=25.5km semi−minor=13.1km azimuth=140						
NEIC		Less reliable solution.						
ISC	**XII**	**05 13 17 57**±1.8	**54.1N**±.28	**161.2E**±.62	**21**		**8**	**1-5**
KRSC	XII	05 13 17 55.4	53.93N	161.58E	21	4.0b		¶97xii0884
ISC	**XII**	**05 14 08 01**±1.2	**54.42N**±.059	**161.74E**±.099	**55**±12	**4.6b**	**72**	**2-144**
EIDC	XII	05 14 07 55.2±.53	54.4N	161.7E	0	4.6b,4.9L		¶97xii0895
MOS	XII	05 14 07 57.4	54.6N	161.8E	22	5.1b		
NEIC	XII	05 14 07 58.4	54.49N	161.75E	33	4.9b		
EIDC		Error ellipse is semi−major=19.2km semi−minor=11.5km azimuth=133						
ISC	**XII**	**05 14 10 19.9**±.81	**54.6N**±.15	**161.8E**±.25	**33**	**4.1b**	**11**	**24-78**
EIDC	XII	05 14 10 16.6±1.42	54.6N	161.8E	0	4.1b		¶97xii0897
NEIC	XII	05 14 10 19.6	54.59N	161.76E	33	4.6b		
EIDC		Error ellipse is semi−major=38.3km semi−minor=30.0km azimuth=138						
NEIC		Less reliable solution.						
ISC	**XII**	**05 14 19 02**±1.9	**54.95N**±.093	**162.3E**±.15	**41**±18	**4.2b**	**43**	**3-85**
MOS	XII	05 14 19 00.5	54.9N	162.4E	33	4.9b		¶97xii0899
NEIC	XII	05 14 19 01.1	55.05N	162.13E	33	4.7b		
EIDC	XII	05 14 19 06.5±4.05	55.0N	162.2E	67±37.5	3.9b,4.5L		
EIDC		Error ellipse is semi−major=23.2km semi−minor=13.8km azimuth=142						
ISC	**XII**	**05 14 21 14.3**±.88	**54.84N**±.060	**162.3E**±.17	**47**±8.0	**4.2b**	**29**	**0-85**
EIDC	XII	05 14 21 10.0±.82	55.0N	162.1E	0	4.2b,4.0L		¶97xii0900
KRSC	XII	05 14 21 12.1	54.80N	162.44E	15	4.5b		
NEIC	XII	05 14 21 13.1	54.99N	162.06E	33	4.6b		
EIDC		Error ellipse is semi−major=31.3km semi−minor=16.8km azimuth=142						
NEIC		Less reliable solution.						
ISC	**XII**	**05 14 27 49**±3.0	**53.6N**±.40	**161.0E**±.78	**3**±26		**6**	**1-2**
KRSC	XII	05 14 27 48.0	53.60N	161.00E	8	3.9b		¶97xii0903
ISC	**XII**	**05 14 32 48.0**±.86	**54.4N**±.19	**162.0E**±.30	**33**	**3.6b**	**8**	**24-81**
EIDC	XII	05 14 32 44.9±.98	54.3N	162.0E	0	3.7b,4.1L		¶97xii0906
EIDC		Error ellipse is semi−major=43.6km semi−minor=18.5km azimuth=141						
ISC	**XII**	**05 14 33 31**±1.4	**54.53N**±.054	**162.65E**±.085	**28**±10	**4.4b**	**71**	**1-118**
MOS	XII	05 14 33 31.9	54.5N	162.7E	33	4.9b		¶97xii0907
NEIC	XII	05 14 33 31.9	54.58N	162.61E	33	4.7b		
KRSC	XII	05 14 33 31.9	54.58N	162.69E	40	4.7b		
EIDC	XII	05 14 33 34.5±4.07	54.6N	162.5E	41±37.8	4.2b,4.0L		
EIDC		Error ellipse is semi−major=19.7km semi−minor=12.2km azimuth=148						
ISC	**XII**	**05 14 36 54.4**±.77	**55.14N**±.061	**163.0E**±.12	**39**±9.8	**3.9b**	**23**	**1-82**
EIDC	XII	05 14 36 50.4±.82	55.2N	162.7E	0	4.0b		¶97xii0908
KRSC	XII	05 14 36 53.0	55.14N	163.06E	21	4.7b		
EIDC		Error ellipse is semi−major=33.7km semi−minor=17.8km azimuth=132						
ISC	**XII**	**05 14 40 18**±1.3	**54.74N**±.071	**161.8E**±.22	**87**±11	**3.8b**	**28**	**0-85**
NEIC	XII	05 14 40 11.7	54.69N	161.91E	33	4.4b		¶97xii0912
EIDC	XII	05 14 40 12.3±.87	54.6N	161.8E	25±6.4	3.7b,3.9L		
MOS	XII	05 14 40 12.5	54.8N	162.0E	33	4.6b		
KRSC	XII	05 14 40 15.8	54.80N	161.92E	8	4.4b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=26.6km semi−minor=17.2km azimuth=126						
ISC	**XII**	**05 15 09 13**±1.4	**54.30N**±.082	**161.2E**±.18	**4**±12	**3.9b**	**16**	**0-74**
KRSC	XII	05 15 09 13.9	54.46N	161.25E	29	3.9b		¶97xii0925
EIDC	XII	05 15 09 14.0±1.34	53.8N	161.6E	0	3.8b		
EIDC		Error ellipse is semi−major=45.2km semi−minor=25.4km azimuth=143						
ISC	**XII**	**05 15 29 20.4**±.62	**54.45N**±.055	**161.03E**±.082	**46**±6.5	**4.8b**	**114**	**0-150**
BJI	XII	05 15 29 16.7	54.83N	161.14E	37	4.6b		¶97xii0930
MOS	XII	05 15 29 18.8	54.6N	161.0E	29	5.0b		
NEIC	XII	05 15 29 18.9	54.51N	161.09E	33	5.0b		
KRSC	XII	05 15 29 21.2	54.22N	161.42E	38	4.7b		
EIDC	XII	05 15 29 21.7±3.79	54.4N	161.1E	44±36.7	4.4b,4.9L		
EIDC		Error ellipse is semi−major=22.0km semi−minor=11.9km azimuth=137						
ISC	**XII**	**05 15 33 31.8**±.52	**54.18N**±.044	**160.93E**±.084	**62**±4.7	**4.6b**	**98**	**0-144**
EIDC	XII	05 15 33 25.4±.61	54.3N	160.9E	0	4.6b		¶97xii0931
BJI	XII	05 15 33 27.4	54.54N	160.78E	31	4.6b		
NEIC	XII	05 15 33 28.9	54.33N	160.90E	33	4.8b		
MOS	XII	05 15 33 29.4	54.4N	160.9E	31	5.0b		
KRSC	XII	05 15 33 31.7	54.09N	161.14E	40	4.7b		
EIDC		Error ellipse is semi−major=19.3km semi−minor=12.3km azimuth=140						
ISC	**XII**	**05 15 37 35**±2.0	**53.3N**±.14	**160.5E**±.37	**41**±13	**4.1b**	**23**	**0-74**
MOS	XII	05 15 37 32.7	53.3N	160.7E	30	4.6b		¶97xii0933
KRSC	XII	05 15 37 35.8	53.01N	160.47E	32	4.2b		
EIDC	XII	05 15 37 38.5±1.08	53.9N	158.3E	0	4.0b		
NEIC	XII	05 15 37 41.1	53.93N	158.21E	33	4.5b		
EIDC		Error ellipse is semi−major=30.7km semi−minor=20.7km azimuth=134						
NEIC		Less reliable solution.						
ISC	**XII**	**05 15 40 34**±3.2	**54.1N**±.12	**160.9E**±.69	**25**		**8**	**1-4**
KRSC	XII	05 15 40 31.4	54.04N	161.48E	25	3.8b		¶97xii0934
ISC	**XII**	**05 15 46 43.1**±.87	**54.15N**±.096	**160.5E**±.21	**0**		**8**	**1-2**
KRSC	XII	05 15 46 42.3	54.15N	160.65E	0	3.9b		¶97xii0935
ISC	**XII**	**05 15 55 37.0**±.67	**54.64N**±.048	**162.40E**±.080	**37**±6.6	**4.5b**	**83**	**0-145**
EIDC	XII	05 15 55 33.5±.61	54.7N	162.5E	0	4.4b,4.3L		¶97xii0942
KRSC	XII	05 15 55 35.7	54.64N	162.48E	17	4.7b		
MOS	XII	05 15 55 36.6	54.7N	162.3E	33	5.0b		
NEIC	XII	05 15 55 36.6	54.73N	162.37E	33	4.9b		
EIDC		Error ellipse is semi−major=20.3km semi−minor=12.5km azimuth=146						
ISC	**XII**	**05 15 58 40**±1.0	**54.1N**±.24	**160.9E**±.42	**0**		**9**	**1-4**
KRSC	XII	05 15 58 37.8	53.91N	161.22E	0	3.9b		¶97xii0943
ISC	**XII**	**05 16 00 14**±1.7	**54.68N**±.077	**162.9E**±.25	**45**±15	**3.9b**	**20**	**1-74**
KRSC	XII	05 16 00 10.0	54.62N	163.38E	27	4.3b		¶97xii0944
EIDC	XII	05 16 00 10.4±1.07	54.9N	162.8E	0	3.8b		
NEIC	XII	05 16 00 13.1	54.91N	162.78E	33	4.3b		
EIDC		Error ellipse is semi−major=35.0km semi−minor=22.4km azimuth=154						
NEIC		Less reliable solution.						
ISC	**XII**	**05 16 07 04**±1.3	**54.57N**±.062	**162.65E**±.092	**21**±10	**4.2b**	**42**	**1-85**
KRSC	XII	05 16 07 01.3	54.58N	162.71E	0	4.7b		¶97xii0946
EIDC	XII	05 16 07 02.6±.76	54.6N	162.6E	0	4.2b,4.0L		
NEIC	XII	05 16 07 05.7	54.61N	162.55E	33	4.5b		
MOS	XII	05 16 07 05.8	54.6N	162.6E	31	4.5b		
EIDC		Error ellipse is semi−major=24.4km semi−minor=14.7km azimuth=150						
KRSC	**XII**	**05 16 07 20.4**	**53.81N**	**160.75E**	**3**	**4.0b**		¶97xii0947
ISC	**XII**	**05 16 10 13.4**±.68	**54.65N**±.053	**162.42E**±.081	**36**±6.8	**4.5b**	**73**	**0-85**
BJI	XII	05 16 10 10.0	54.70N	162.40E	33	4.6b		¶97xii0948
KRSC	XII	05 16 10 11.5	54.56N	162.68E	20	4.7b		
MOS	XII	05 16 10 11.8	54.7N	162.4E	23	5.0b		
NEIC	XII	05 16 10 13.0	54.68N	162.42E	33	4.8b		
EIDC	XII	05 16 10 16.2±3.85	54.7N	162.4E	44±37.4	4.1b,4.4L		
EIDC		Error ellipse is semi−major=20.9km semi−minor=12.9km azimuth=152						
ISC	**XII**	**05 16 27 09**±1.0	**53.92N**±.052	**160.9E**±.12	**55**±8.8	**5.1b**,5.7s	**166**	**1-144**
BJI	XII	05 16 27 00.0	54.10N	161.90E	33	5.1b,5.8s		¶97xii0956
MOS	XII	05 16 27 02.7	53.7N	162.1E	33	5.5b		
NEIC	XII	05 16 27 02.8	54.09N	161.88E	33	5.2b		
KRSC	XII	05 16 27 09.3	53.76N	161.06E	30	5.0b		
EIDC	XII	05 16 27 13.6±5.10	54.0N	160.8E	79±47.0	4.5b,5.0L		
KRSC		Felt I=IV M. Shipunskiy, II−III Petropavlovsk						
EIDC		Error ellipse is semi−major=17.7km semi−minor=12.0km azimuth=131						
ISC	**XII**	**05 16 36 43.1**±.74	**54.42N**±.067	**162.0E**±.13	**39**±8.7	**4.0b**	**28**	**0-81**
EIDC	XII	05 16 36 39.4±.89	54.6N	161.9E	0	4.1b		¶97xii0961
MOS	XII	05 16 36 39.6	54.6N	161.8E	13	4.8b		
NEIC	XII	05 16 36 42.3	54.66N	161.72E	33	4.6b		
KRSC	XII	05 16 36 42.9	54.37N	161.96E	22	4.4b		
EIDC		Error ellipse is semi−major=39.5km semi−minor=18.7km azimuth=139						
NEIC		Less reliable solution.						
ISC	**XII**	**05 16 38 57.5**±.90	**54.79N**±.074	**162.5E**±.15	**46**±9.6	**3.7b**	**19**	**1-82**
EIDC	XII	05 16 38 56.4±.97	55.0N	161.1E	0	3.7b		¶97xii0962
KRSC	XII	05 16 38 56.6	54.83N	162.43E	12	4.3b		

EIDC Error ellipse is semi−major=35.2km semi−minor=21.4km azimuth=138
ISC XII 05 16 43 38.1±.66 **54.67N**±.066 **162.33E**±.092 **42**±7.1 **4.4b** **54 0-85**
EIDC XII 05 16 43 34.1±.77 54.7N 162.4E 0 4.3b,4.5L **¶97xii0964**
KRSC XII 05 16 43 35.4 54.49N 162.52E 6 4.9b
MOS XII 05 16 43 36.2 54.8N 162.2E 23 4.7b
NEIC XII 05 16 43 37.4 54.79N 162.30E 33 4.6b
EIDC Error ellipse is semi−major=25.8km semi−minor=14.7km azimuth=149
ISC XII 05 16 56 07.7±.79 **54.28N**±.053 **162.3E**±.11 **43**±7.0 **4.3b** **60 0-143**
EIDC XII 05 16 56 03.6±.77 54.4N 162.3E 0 4.2b,4.6L **¶97xii0970**
KRSC XII 05 16 56 03.6 54.18N 162.60E 9 4.8b
NEIC XII 05 16 56 07.3 54.47N 162.35E 33 4.7b
MOS XII 05 16 56 09.6 54.8N 162.2E 33 4.9b
EIDC Error ellipse is semi−major=24.1km semi−minor=14.4km azimuth=139
ISC XII 05 16 57 48.9±.84 **54.29N**±.059 **162.2E**±.12 **49**±6.5 **4.6b,**5.0s **64 0-86**
EIDC XII 05 16 57 44.4±.87 54.4N 162.2E 0 4.5b,4.8L **¶97xii0971**
KRSC XII 05 16 57 44.9 54.18N 162.47E 5 4.8b
BJI XII 05 16 57 45.9 54.50N 162.10E 33 4.3b,4.8s
MOS XII 05 16 57 47.9 54.4N 162.3E 37 5.1b
NEIC XII 05 16 57 47.9 54.45N 162.12E 33 4.9b
EIDC Error ellipse is semi−major=28.1km semi−minor=15.0km azimuth=135
NEIC Less reliable solution.
ISC XII 05 17 00 31±1.4 **54.17N**±.089 **161.6E**±.31 **58**±8.1 **4.0b** **17 0-63**
EIDC XII 05 17 00 24.6±9.95 54.3N 161.8E 0 3.9b **¶97xii0972**
KRSC XII 05 17 00 31.2 54.16N 161.36E 26 4.1b
EIDC Error ellipse is semi−major=297.6km semi−minor=25.8km azimuth=116
ISC XII 05 17 12 41±1.8 **54.1N**±.31 **161.3E**±.63 **41** **8 1-3**
KRSC XII 05 17 12 40.6 53.97N 161.62E 41 3.8b **¶97xii0978**
ISC XII 05 17 13 37.5±.86 **54.30N**±.061 **162.2E**±.13 **50**±7.5 **4.3b** **49 0-143**
KRSC XII 05 17 13 32.4 54.15N 162.51E 4 4.7b **¶97xii0980**
MOS XII 05 17 13 35.6 54.3N 162.2E 33 4.8b
NEIC XII 05 17 13 35.9 54.41N 162.11E 33 4.6b
EIDC XII 05 17 13 36.6±1.32 54.4N 162.3E 27±7.6 4.0b,4.3L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=26.6km semi−minor=14.8km azimuth=141
ISC XII 05 17 32 22.4±.98 **54.35N**±.094 **162.3E**±.16 **46**±11 **4.2b** **28 0-69**
EIDC XII 05 17 32 18.3±.84 54.5N 162.2E 0 4.2b,4.8L **¶97xii0989**
KRSC XII 05 17 32 19.7 54.22N 162.69E 27 4.6b
NEIC XII 05 17 32 21.2 54.61N 162.16E 33 4.6b
MOS XII 05 17 32 21.5 54.3N 162.5E 33 4.7b
EIDC Error ellipse is semi−major=32.2km semi−minor=14.9km azimuth=157
ISC XII 05 17 35 11.1±.74 **54.79N**±.056 **162.67E**±.098 **41**±7.4 **4.5b,**4.7s **59 1-145**
KRSC XII 05 17 35 07.3 54.69N 163.07E 12 4.7b **¶97xii0990**
EIDC XII 05 17 35 07.4±.65 54.9N 162.7E 0 4.5b,3.8L
MOS XII 05 17 35 09.6 54.9N 162.6E 26 4.8b
NEIC XII 05 17 35 10.5 54.91N 162.59E 33 4.6b
EIDC Error ellipse is semi−major=22.7km semi−minor=12.9km azimuth=148
ISC XII 05 17 51 21±1.2 **54.53N**±.070 **162.5E**±.18 **43**±12 **4.0b** **24 0-82**
EIDC XII 05 17 51 16.7±.94 54.6N 162.5E 0 4.0b **¶97xii0995**
KRSC XII 05 17 51 18.4 54.50N 162.61E 10 4.3b
NEIC XII 05 17 51 20.2 54.78N 162.36E 33 4.4b
EIDC Error ellipse is semi−major=36.6km semi−minor=18.4km azimuth=141
NEIC Less reliable solution.
ISC XII 05 18 02 25±1.8 **54.1N**±.11 **163.0E**±.26 **10** 4.2b **9 1-63**
KRSC XII 05 18 02 28.1 54.20N 162.63E 10 4.1b **¶97xii1002**
EIDC XII 05 18 06 20.6±2.71 **54.1N** **161.6E** **0** **3.7b,**3.9L **59-81**
¶97xii1003
EIDC Error ellipse is semi−major=79.0km semi−minor=39.2km azimuth=104Aftershock: abbreviated analysis
ISC XII 05 18 09 26.4±.85 **54.73N**±.064 **162.90E**±.092 **40**±8.5 **4.3b** **63 1-85**
KRSC XII 05 18 09 24.5 54.62N 163.11E 26 4.6b **¶97xii1005**
NEIC XII 05 18 09 25.9 54.87N 162.85E 33 4.6b
MOS XII 05 18 09 26.0 54.8N 162.8E 33 4.7b
EIDC XII 05 18 09 27.8±.72 54.8N 163.0E 35±5.1 4.1b,4.0L
EIDC Error ellipse is semi−major=18.5km semi−minor=11.7km azimuth=150Aftershock: abbreviated analysis
ISC XII 05 18 13 24.4±.86 **54.0N**±.11 **161.5E**±.20 **48**±9.0 **4.2b** **21 1-74**
EIDC XII 05 18 13 18.0±1.75 53.9N 162.1E 0 4.2b,4.4L **¶97xii1008**
NEIC XII 05 18 13 21.7 54.06N 161.87E 33 4.3b
KRSC XII 05 18 13 22.9 53.84N 161.63E 13 4.8b
EIDC Error ellipse is semi−major=51.7km semi−minor=19.6km azimuth=132Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 05 18 22 21±2.1 **54.48N**±.082 **162.6E**±.34 **50**±16 **4.0b** **16 0-69**
KRSC XII 05 18 22 16.6 54.43N 162.85E 10 4.1b **¶97xii1012**
EIDC XII 05 18 22 16.8±1.52 54.7N 162.5E 0 4.0b
EIDC Error ellipse is semi−major=52.3km semi−minor=30.5km azimuth=164Aftershock: abbreviated analysis
ISC XII 05 18 28 30.3±.91 **54.74N**±.074 **162.8E**±.10 **52**±7.8 **4.3b** **50 1-85**
BJI XII 05 18 28 25.3 55.21N 162.41E 14 4.1b **¶97xii1015**
KRSC XII 05 18 28 26.6 54.60N 163.18E 20 4.6b
MOS XII 05 18 28 28.4 54.8N 162.7E 33 4.9b
NEIC XII 05 18 28 28.4 54.81N 162.76E 33 4.7b
EIDC XII 05 18 28 31.0±1.17 54.8N 162.8E 36±7.9 4.1b,4.5L
EIDC Error ellipse is semi−major=23.6km semi−minor=14.6km azimuth=150Aftershock: abbreviated analysis
ISC XII 05 18 31 56±1.6 **54.49N**±.083 **161.9E**±.34 **60**±9.0 **4.4b** **15 0-63**
EIDC XII 05 18 31 53.5 54.5N 158.8E 0 4.3b **¶97xii1017**
KRSC XII 05 18 31 57.9 54.51N 161.65E 31 4.1b
EIDC Origin time error = 25.76Error ellipse is semi−major=601.3km semi−minor=209.2km azimuth=132Aftershock: abbreviated analysis
ISC XII 05 18 32 50.3±.79 **54.66N**±.059 **162.88E**±.098 **49**±7.8 **4.3b** **63 1-144**
KRSC XII 05 18 32 48.4 54.56N 163.09E 21 4.8b **¶97xii1018**
NEIC XII 05 18 32 49.1 54.84N 162.83E 33 4.6b
MOS XII 05 18 32 49.3 54.8N 162.8E 33 4.8b
EIDC XII 05 18 32 51.8±5.90 54.8N 163.0E 42±57.5 4.0b,4.6L
EIDC Error ellipse is semi−major=20.1km semi−minor=12.5km azimuth=158Aftershock: abbreviated analysis
ISC XII 05 18 42 32±2.2 **54.3N**±.12 **161.7E**±.47 **58** **8 0-3**
KRSC XII 05 18 42 32.4 54.37N 161.67E 58 3.7b **¶97xii1022**
ISC XII 05 18 46 55±1.2 **54.7N**±.21 **162.0E**±.38 **33** **4.1b** **7 46-82**
EIDC XII 05 18 46 51.4±1.13 54.7N 162.0E 0 4.1b **¶97xii1024**
EIDC Error ellipse is semi−major=34.5km semi−minor=30.8km azimuth=95Aftershock: abbreviated analysis
ISC XII 05 19 24 08±1.1 **54.1N**±.18 **161.0E**±.40 **40** **7 0-2**
KRSC XII 05 19 24 08.8 54.09N 161.12E 40 3.8b **¶97xii1048**
ISC XII 05 19 43 20.2±.95 **54.77N**±.064 **162.8E**±.14 **39**±10 **4.1b** **31 1-85**
EIDC XII 05 19 43 16.6±.77 54.9N 162.6E 0 4.1b,4.0L **¶97xii1058**
KRSC XII 05 19 43 17.0 54.70N 163.05E 14 4.5b
NEIC XII 05 19 43 19.8 54.94N 162.60E 33 4.4b
EIDC Error ellipse is semi−major=28.4km semi−minor=15.5km azimuth=145Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 05 19 51 07.1±.80 **54.71N**±.069 **162.8E**±.12 **38**±8.7 **4.1b** **26 1-85**
KRSC XII 05 19 51 05.9 54.66N 162.86E 22 4.4b **¶97xii1059**
NEIC XII 05 19 51 07.3 55.01N 162.52E 33 4.2b
EIDC XII 05 19 51 09.0±1.32 54.9N 162.6E 33±7.0 4.0b,4.0L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=31.1km semi−minor=17.6km azimuth=151Aftershock: abbreviated analysis
ISC XII 05 20 03 46±1.6 **54.4N**±.13 **160.9E**±.25 **29**±15 **4.2b** **17 1-73**
KRSC XII 05 20 03 39.5 53.80N 161.80E 0 4.4b **¶97xii1065**
EIDC XII 05 20 03 42.9±1.08 54.3N 160.9E 0 4.2b,4.6L
NEIC XII 05 20 03 45.9 54.42N 160.85E 33 4.2b
EIDC Error ellipse is semi−major=33.5km semi−minor=19.9km azimuth=140Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 05 20 05 22±4.8 **54.5N**±.11 **161.9E**±.17 **52**±45 **4.0b** **19 18-81**
NEIC XII 05 20 05 19.9 54.48N 161.94E 33 4.1b **¶97xii1066**
EIDC XII 05 20 05 20.3±.90 54.4N 162.0E 23±5.3 3.9b,3.9L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=22.7km semi−minor=16.0km azimuth=149Aftershock: abbreviated analysis
EIDC XII 05 20 29 14.6±1.55 **55.2N** **162.0E** **0** **3.9b** **25-69**
¶97xii1078
EIDC Error ellipse is semi−major=50.2km semi−minor=33.4km azimuth=138Aftershock: abbreviated analysis
ISC XII 05 21 01 36±3.6 **54.4N**±.11 **161.9E**±.52 **20**±13 **4.0b** **13 0-81**
KRSC XII 05 21 01 33.8 54.36N 162.03E 13 4.1b **¶97xii1092**
EIDC XII 05 21 02 28.9±5.32 54.0N 163.6E 0 3.9b
EIDC Error ellipse is semi−major=125.3km semi−minor=77.3km azimuth=28Aftershock: abbreviated analysis
KRSC XII 05 21 46 31.9 **54.09N** **161.53E** **10** **4.0b** **¶97xii1108**
ISC XII 05 22 17 07±6.9 **54.6N**±.58 **159E**±2.4 **0** **4.3b** **6 23-73**
EIDC XII 05 22 17 08.6±9.10 54.6N 159.7E 0 4.2b **¶97xii1119**
EIDC Error ellipse is semi−major=271.1km semi−minor=26.7km azimuth=115Aftershock: abbreviated analysis
EIDC XII 05 22 21 34.6±8.74 **54.2N** **160.7E** **0** **4.1b** **24-74**
¶97xii1121
EIDC Error ellipse is semi−major=257.0km semi−minor=25.7km azimuth=116Aftershock: abbreviated analysis
ISC XII 05 22 24 27.5±.36 **54.08N**±.076 **161.75E**±.080 **33** **4.5b** **67 23-87**
MOS XII 05 22 24 27.3 54.1N 161.7E 33 4.8b **¶97xii1124**
NEIC XII 05 22 24 27.3 54.09N 161.76E 33 4.7b
EIDC XII 05 22 24 28.5±.66 54.1N 161.7E 27±4.3 4.3b,4.5L
EIDC Error ellipse is semi−major=19.7km semi−minor=10.8km azimuth=148Aftershock: abbreviated analysis
EIDC XII 05 22 42 24.2 **54.6N** **161.7E** **0** **4.0b** **46-73**
¶97xii1128
EIDC Origin time error = 15.20Error ellipse is semi−major=421.3km semi−minor=35.0km azimuth=120Aftershock: abbreviated analysis
ISC XII 05 22 43 20±1.1 **54.3N**±.28 **161.6E**±.35 **33** **3.7b** **6 24-69**
EIDC XII 05 22 43 16.5±1.10 54.2N 161.7E 0 3.7b **¶97xii1129**
EIDC Error ellipse is semi−major=45.2km semi−minor=22.4km azimuth=153Aftershock: abbreviated analysis
ISC XII 05 23 26 06.1±.96 **54.29N**±.091 **162.0E**±.20 **55** **3.5b** **10 0-69**
EIDC XII 05 23 25 58.0±5.10 53.9N 161.6E 0 3.7b **¶97xii1147**
KRSC XII 05 23 25 59.4 54.15N 163.03E 55 4.0b
EIDC Error ellipse is semi−major=131.4km semi−minor=44.6km azimuth=16Aftershock: abbreviated analysis
ISC XII 06 00 14 50.0±.63 **54.56N**±.055 **161.6E**±.13 **59**±6.1 **4.2b** **34 0-78**
BJI XII 06 00 14 48.0 54.80N 161.30E 33 4.9b **¶97xii1169**
NEIC XII 06 00 14 48.0 54.83N 161.35E 33 3.8b
KRSC XII 06 00 14 50.4 54.50N 161.63E 36 4.4b
EIDC XII 06 00 14 54.9±7.28 54.7N 161.3E 83±70.0 3.8b,4.4L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=25.8km semi−minor=18.5km azimuth=128Aftershock: abbreviated analysis
ISC XII 06 00 41 03.2±.50 **53.93N**±.034 **160.83E**±.049 **56**±4.4 **5.0b,5.1s** **288 1-144**
BJI XII 06 00 40 58.2 54.12N 160.73E 27 4.9b,5.4s **¶97xii1178**
NEIC XII 06 00 41 00.7 54.01N 160.90E 33 5.2b
MOS XII 06 00 41 01.3 54.1N 160.8E 33 5.4b
KRSC XII 06 00 41 02.4 53.82N 161.14E 29 5.0b
EIDC XII 06 00 41 07.3±2.54 54.0N 160.7E 77±22.6 4.5b,4.9s
KRSC Felt I=II M. Shipunskiy
EIDC Error ellipse is semi−major=17.0km semi−minor=10.8km azimuth=139Aftershock: abbreviated analysis
ISC XII 06 00 58 55±1.7 **54.1N**±.21 **161.2E**±.57 **35** **4 1-1**
KRSC XII 06 00 58 55.4 54.12N 161.08E 35 4.0b **¶97xii1182**
ISC Poorly determined
ISC XII 06 00 59 38.7±.57 **54.0N**±.17 **161.7E**±.20 **33** **4.2b** **31 1-74**
EIDC XII 06 00 59 35.2±.97 53.9N 161.7E 0 4.2b,4.2L **¶97xii1183**
NEIC XII 06 00 59 38.5 53.99N 161.72E 33 4.4b
MOS XII 06 00 59 39.3 53.6N 162.3E 33 4.7b
KRSC XII 06 01 00 04.7 53.65N 161.76E 28 4.3b
EIDC Error ellipse is semi−major=38.3km semi−minor=16.1km azimuth=151Aftershock: abbreviated analysis
NEIC Less reliable solution.
KRSC XII 06 01 02 59.7 **54.64N** **162.59E** **18** **4.0b** **¶97xii1184**
KRSC XII 06 01 05 19.0 **54.85N** **162.04E** **12** **4.1b** **¶97xii1185**
KRSC XII 06 01 07 35.8 **54.83N** **162.48E** **18** **4.1b** **¶97xii1186**
ISC XII 06 01 13 47.5±.87 **54.93N**±.069 **162.7E**±.14 **60**±9.3 **4.0b** **34 1-85**
NEIC XII 06 01 13 45.0 55.16N 162.48E 33 4.1b **¶97xii1188**
KRSC XII 06 01 13 45.9 54.90N 163.01E 40 4.7b
EIDC XII 06 01 13 53.2±6.85 55.1N 162.6E 91±65.5 3.7b,4.5L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=28.1km semi−minor=15.2km azimuth=144Aftershock: abbreviated analysis
ISC XII 06 02 06 48±1.0 **54.9N**±.21 **162.6E**±.28 **33** **3.9b,**4.1s **10 24-85**
EIDC XII 06 02 06 44.3±1.13 54.9N 162.6E 0 4.0b,4.1s **¶97xii1201**
NEIC XII 06 02 06 47.6 54.94N 162.57E 33 4.0b
EIDC Error ellipse is semi−major=39.1km semi−minor=20.1km azimuth=149Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 06 02 07 04.0±.50 **54.39N**±.038 **161.70E**±.051 **52**±4.6 **4.9b,4.5s** **217 0-150**
BJI XII 06 02 06 58.8 54.69N 161.51E 24 4.7b,5.0s **¶97xii1202**
MOS XII 06 02 07 00.3 54.2N 161.7E 33 5.3b
KRSC XII 06 02 07 00.3 54.24N 162.12E 11 4.8b
NEIC XII 06 02 07 01.8 54.44N 161.73E 33 5.1b,4.5s
EIDC XII 06 02 07 04.6±4.47 54.4N 161.7E 42±41.8 4.5b,5.0L
EIDC Error ellipse is semi−major=18.0km semi−minor=11.9km azimuth=147Aftershock: abbreviated analysis

Agency		Origin Time		φ	λ	h	Mag	*n*	Δ-Rng
		mo d h m s		°	°	km			°
ISC	**XII**	**06 02 31 58.3**±.76	**54.77N**±.057	**162.7E**±.11	**47**±7.3	**4.4b**	**51**	**1-145**	
BJI	XII	06 02 31 52.2	54.90N	162.60E	33	4.4b,4.6s		**¶97xii1209**	
KRSC	XII	06 02 31 52.7	54.67N	163.21E	8	4.9b			
EIDC	XII	06 02 31 54.0±.72	54.9N	162.6E	0	4.3b,3.5s			
MOS	XII	06 02 31 57.1	54.9N	162.6E	33	4.8b			
NEIC	XII	06 02 31 57.2	54.95N	162.61E	33	4.6b			
EIDC	Error ellipse is semi-major=22.6km semi-minor=14.9km azimuth=149Aftershock: abbreviated analysis								
ISC	**XII**	**06 03 03 22.6**±.59	**54.62N**±.039	**162.77E**±.051	**39**±5.4	**4.9b,5.2s**	**249**	**1-145**	
EIDC	XII	06 03 03 19.1±.59	54.8N	162.8E	0	4.7b,5.1s		**¶97xii1218**	
KRSC	XII	06 03 03 19.3	54.52N	163.22E	25	4.8b			
MOS	XII	06 03 03 21.8	54.7N	162.7E	33	5.7b			
BJI	XII	06 03 03 22.2	54.60N	162.90E	33	4.9b,5.8s			
NEIC	XII	06 03 03 22.2	54.69N	162.91E	33	5.1b,5.0s			
HRVD	XII	06 03 03 27.1±.7	54.55N±.09	163.23E±.12	34±6.8				
EIDC	Error ellipse is semi-major=18.1km semi-minor=12.2km azimuth=147Aftershock: abbreviated analysis								
NEIC	Mw5.4(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c31; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.28±.10; $M_{\theta\theta}$−0.23±.14; $M_{\phi\phi}$−1.05±.11; $M_{r\theta}$0.44±.25; $M_{r\phi}$0.40±.26; $M_{\theta\phi}$−0.71±.14. Principal Axes: T 1.42,Plg76°,Azm336°; N 0.15, Plg8°,Azm213°; P −1.57,Plg11°,Azm121°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S201°,δ34°,λ76°. NP2:ϕ_S38°,δ57°,λ99°.								
ISC	**XII**	**06 03 07 37**±1.1	**54.75N**±.071	**162.7E**±.17	**52**±10	**4.2b**	**39**	**1-85**	
KRSC	XII	06 03 07 32.7	54.71N	163.12E	13	4.8b		**¶97xii1219**	
MOS	XII	06 03 07 36.4	55.0N	162.4E	33	4.6b			
NEIC	XII	06 03 07 36.4	55.07N	162.54E	33	4.5b			
EIDC	XII	06 03 07 39.5±6.84	55.0N	162.6E	44±72.0	3.9b,4.3L			
EIDC	Error ellipse is semi-major=31.8km semi-minor=17.9km azimuth=156Aftershock: abbreviated analysis								
ISC	**XII**	**06 03 10 42**±1.0	**54.35N**±.063	**162.2E**±.17	**41**±9.4	**4.1b**	**31**	**0-78**	
EIDC	XII	06 03 10 38.0±.83	54.4N	162.2E	0	4.0b,4.4L		**¶97xii1220**	
KRSC	XII	06 03 10 38.1	54.24N	162.38E	3	4.4b			
MOS	XII	06 03 10 41.0	54.5N	161.9E	33	4.8b			
NEIC	XII	06 03 10 41.1	54.51N	162.10E	33	4.6b			
EIDC	Error ellipse is semi-major=25.8km semi-minor=17.5km azimuth=134Aftershock: abbreviated analysis								
ISC	**XII**	**06 03 36 49.6**±.80	**54.82N**±.061	**162.6E**±.13	**50**±8.4	**4.2b**	**45**	**1-85**	
KRSC	XII	06 03 36 44.2	54.69N	163.11E	12	4.9b		**¶97xii1227**	
EIDC	XII	06 03 36 45.7±.78	55.1N	162.7E	0	4.2b,4.2s			
MOS	XII	06 03 36 48.3	55.1N	162.2E	33	4.7b			
NEIC	XII	06 03 36 48.6	55.15N	162.39E	33	4.3b			
EIDC	Error ellipse is semi-major=24.4km semi-minor=15.8km azimuth=145Aftershock: abbreviated analysis								
NEIC	Less reliable solution.								
ISC	**XII**	**06 03 40 57.5**±.94	**54.81N**±.063	**162.2E**±.19	**51**±9.1	**4.0b**	**27**	**0-85**	
EIDC	XII	06 03 40 42.7±1.47	52.9N	160.7E	0	4.1b		**¶97xii1229**	
NEIC	XII	06 03 40 45.1	52.89N	160.74E	33	4.1b			
KRSC	XII	06 03 40 55.3	54.80N	162.36E	14	4.6b			
EIDC	Error ellipse is semi-major=41.5km semi-minor=22.7km azimuth=167Aftershock: abbreviated analysis								
NEIC	Poor solution.								
KRSC	**XII**	**06 03 42 50.0**	**55.00N**	**162.97E**	**29**	**3.9b**		**¶97xii1230**	
ISC	**XII**	**06 03 48 58**±1.6	**54.43N**±.096	**162.3E**±.18	**28**±14		**10**	**0-59**	
KRSC	XII	06 03 48 58.2	54.45N	162.17E	25	4.2b		**¶97xii1234**	
KRSC	**XII**	**06 03 50 08.2**	**54.21N**	**161.49E**	**38**	**3.8b**		**¶97xii1235**	
EIDC	XII	06 03 50 10.9±1.43	54.2N	159.9E	0	3.8b			
EIDC	Error ellipse is semi-major=52.3km semi-minor=27.8km azimuth=143Aftershock: abbreviated analysis								
ISC	**XII**	**06 03 52 02**±8.9	**54.9N**±.87	**161.4E**±.37	**49**		**6**	**0-3**	
KRSC	XII	06 03 52 03.3	54.73N	161.62E	49	4.0b		**¶97xii1236**	
ISC	**XII**	**06 03 59 57**±1.7	**54.73N**±.069	**162.3E**±.29	**44**±12	**3.8b**	**22**	**0-78**	
KRSC	XII	06 03 59 53.1	54.70N	162.66E	13	4.7b		**¶97xii1239**	
MOS	XII	06 03 59 56.2	54.7N	162.6E	33	4.6b			
NEIC	XII	06 03 59 56.4	55.02N	161.99E	33	4.5b			
EIDC	XII	06 04 00 16.6	54.8N	161.7E	198±100.0	3.4b			
NEIC	Less reliable solution.								
EIDC	Origin time error = 10.16Error ellipse is semi-major=34.9km semi-minor=19.9km azimuth=135								
ISC	**XII**	**06 04 10 10.6**±.63	**54.40N**±.047	**162.24E**±.070	**42**±6.1	**4.7b**	**112**	**0-143**	
KRSC	XII	06 04 10 07.4	54.33N	162.56E	14	5.0b		**¶97xii1244**	
NEIC	XII	06 04 10 09.9	54.53N	162.21E	33	4.8b			
MOS	XII	06 04 10 10.2	54.4N	162.3E	37	5.1b			
EIDC	XII	06 04 10 13.3±4.69	54.5N	162.1E	48±47.4	4.3b,5.1L			
EIDC	Error ellipse is semi-major=19.0km semi-minor=11.6km azimuth=156Aftershock: abbreviated analysis								
ISC	**XII**	**06 04 12 10**±4.8	**54.16N**±.076	**162.0E**±.69	**3**		**7**	**0-3**	
KRSC	XII	06 04 12 07.3	54.20N	162.31E	3	4.1b		**¶97xii1245**	
ISC	**XII**	**06 04 24 28.3**±.75	**54.40N**±.054	**162.2E**±.11	**42**±6.7	**4.5b**	**58**	**0-86**	
KRSC	XII	06 04 24 24.1	54.31N	162.61E	10	4.5b		**¶97xii1248**	
MOS	XII	06 04 24 27.7	54.6N	162.0E	30	5.0b			
NEIC	XII	06 04 24 27.8	54.58N	162.11E	33	4.7b			
EIDC	XII	06 04 24 32.3±4.25	54.5N	162.2E	59±39.8	4.1b,4.4L			
EIDC	Error ellipse is semi-major=25.0km semi-minor=15.5km azimuth=158								
KRSC	**XII**	**06 04 44 21.6**	**54.19N**	**162.81E**	**21**	**3.8b**		**¶97xii1251**	
ISC	**XII**	**06 05 09 50.5**±.54	**54.91N**±.037	**162.05E**±.052	**41**±5.3	**5.0b,4.8s**	**310**	**0-151**	
BJI	XII	06 05 09 47.0	54.99N	161.85E	26	4.7b,5.3s		**¶97xii1257**	
KRSC	XII	06 05 09 48.9	54.82N	162.42E	21	5.4b			
NEIC	XII	06 05 09 49.6	54.97N	162.08E	33	5.2b,4.7s			
MOS	XII	06 05 09 49.7	55.0N	162.0E	33	5.5b			
EIDC	XII	06 05 09 52.8±.69	55.0N	162.0E	45±6.2	4.7b,4.7s			
HRVD	XII	06 05 09 56.9±.7	54.93N±.08	162.50E±.12	46±5.8				
NEIC	Mw5.3(HRV).								
EIDC	Error ellipse is semi-major=15.4km semi-minor=10.7km azimuth=145								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c33; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}9.32±.63; $M_{\theta\theta}$−2.58±.88; $M_{\phi\phi}$−6.74±.81; $M_{r\theta}$3.71±1.28; $M_{r\phi}$4.19±1.40; $M_{\theta\phi}$−4.50±.88. Principal Axes: T 10.9,Plg74°,Azm319°; N 0.2, Plg4°,Azm215°; P −11.1,Plg15°,Azm124°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S208°,δ30°,λ82°. NP2:ϕ_S37°,δ60°,λ95°.								
ISC	**XII**	**06 05 40 04**±1.4	**54.9N**±.11	**162.7E**±.21	**46**±17	**3.8b**	**22**	**1-125**	
KRSC	XII	06 05 39 59.6	54.81N	163.25E	18	4.3b		**¶97xii1262**	
EIDC	XII	06 05 40 00.9±2.24	55.2N	162.7E	0	3.9b,4.4s			
NEIC	XII	06 05 40 03.1	55.11N	162.61E	33	3.9b			
EIDC	Error ellipse is semi-major=60.8km semi-minor=29.7km azimuth=11								
NEIC	Less reliable solution.								
ISC	**XII**	**06 05 52 35**±1.1	**54.1N**±.28	**160.9E**±.47	**22**		**8**	**1-2**	
KRSC	XII	06 05 52 35.2	54.02N	161.09E	22	3.7b		**¶97xii1266**	
ISC	**XII**	**06 06 15 21**±1.2	**54.35N**±.052	**162.55E**±.071	**19**±9.2	**4.7b**,4.9s	**90**	**1-86**	
KRSC	XII	06 06 15 16.0	54.19N	163.11E	15	5.1b		**¶97xii1271**	
EIDC	XII	06 06 15 21.6±.70	54.6N	162.4E	0	4.5b,4.7L			
BJI	XII	06 06 15 22.1	54.50N	162.60E	33	4.9s			
MOS	XII	06 06 15 23.1	54.2N	162.5E	39	5.1b			
NEIC	XII	06 06 15 24.1	54.53N	162.65E	33	5.0b			
EIDC	Error ellipse is semi-major=20.0km semi-minor=13.7km azimuth=151								
ISC	**XII**	**06 06 30 07**±1.2	**54.00N**±.097	**162.8E**±.16	**16**		**9**	**1-3**	
KRSC	XII	06 06 30 08.1	54.04N	162.62E	16	3.9b		**¶97xii1274**	
ISC	**XII**	**06 06 37 05.9**±.97	**54.80N**±.033	**162.76E**±.041	**29**±7.1	**5.1b,5.2s**	**341**	**1-145**	
EIDC	XII	06 06 37 02.7±.46	54.9N	162.6E	0	5.0b,5.6L		**¶97xii1275**	
KRSC	XII	06 06 37 02.8	54.72N	163.26E	17	5.8b			
BJI	XII	06 06 37 04.2	54.80N	162.70E	33	5.0b,5.4s			
MOS	XII	06 06 37 04.9	54.8N	162.9E	27	5.6b			
NEIC	XII	06 06 37 06.2	54.83N	162.77E	33	5.2b			
HRVD	XII	06 06 37 09.0±.4	54.57N±.05	162.19E±.08	39±3.7				
EIDC	Error ellipse is semi-major=15.0km semi-minor=10.6km azimuth=147Aftershock: abbreviated analysis								
KRSC	Felt I=II−III Petropavlovsk								
NEIC	Mw5.5(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c41; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.81±.07; $M_{\theta\theta}$−0.28±.10; $M_{\phi\phi}$−1.53±.11; $M_{r\theta}$0.85±.20; $M_{r\phi}$0.68±.20; $M_{\theta\phi}$−0.73±.11. Principal Axes: T 2.16,Plg71°,Azm338°; N −0.04, Plg12°,Azm211°; P −2.12,Plg14°,Azm118°. Best double couple: $M_0$2.1×10^{17}Nm, NP1: ϕ_S192°,δ32°,λ68°. NP2:ϕ_S38°,δ60°,λ103°.								
ISC	**XII**	**06 06 38 03.8**±.74	**54.67N**±.031	**161.43E**±.041	**60**±7.0	**5.6b,5.0s**	**405**	**2-163**	
BJI	XII	06 06 37 57.4	54.84N	161.69E	39	5.0b,5.5s		**¶97xii1276**	
MOS	XII	06 06 38 00.3	54.6N	161.5E	32	5.7b			
NEIC	XII	06 06 38 00.7	54.69N	161.46E	33	5.7b,5.0s			
EIDC	XII	06 06 38 07.6±.70	54.8N	161.3E	79±6.6	5.2b,5.5s			
HRVD	XII	06 06 38 08.6±.3	54.52N±.03	160.08E±.04	46				
KRSC	XII	06 06 38 09.6	54.07N	160.83E	0	5.5b			
NEIC	Mw5.6(HRV).								
EIDC	Error ellipse is semi-major=15.2km semi-minor=9.5km azimuth=136Aftershock: abbreviated analysis								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c53; Mantle waves: s1,c1; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.38±.06; $M_{\theta\theta}$−0.50±.08; $M_{\phi\phi}$−1.87±.08; $M_{r\theta}$0.93±.12; $M_{r\phi}$0.81±.12; $M_{\theta\phi}$−1.28±.08. Principal Axes: T 2.70,Plg75°,Azm336°; N 0.21,Plg8°,Azm214°; P −2.91,Plg13°,Azm123°. Best double couple: $M_0$2.8×10^{17}Nm, NP1:ϕ_S202°,δ33°,λ75°. NP2:ϕ_S39°,δ58°,λ100°.								
KRSC	Felt I=III M. Shipunskiy								
ISC	**XII**	**06 06 43 59.2**±.89	**54.43N**±.081	**162.0E**±.18	**58**±12		**12**	**0-59**	
KRSC	XII	06 06 44 00.4	54.47N	161.75E	39	4.1b		**¶97xii1278**	
ISC	**XII**	**06 06 48 28.8**±.51	**54.22N**±.034	**161.54E**±.052	**45**±4.6	**4.9b,4.8s**	**226**	**0-145**	
EIDC	XII	06 06 48 24.2±.43	54.3N	161.5E	0	4.9b,4.6s		**¶97xii1280**	
BJI	XII	06 06 48 26.1	54.65N	161.05E	18	4.8b,5.0s			
NEIC	XII	06 06 48 27.5	54.30N	161.51E	33	5.1b			
MOS	XII	06 06 48 28.2	54.3N	161.5E	36	5.4b			
KRSC	XII	06 06 48 28.7	54.14N	161.49E	19	5.0b			
EIDC	Error ellipse is semi-major=16.0km semi-minor=10.3km azimuth=134								
ISC	**XII**	**06 07 00 45.8**±.87	**54.80N**±.060	**162.3E**±.16	**45**±9.3	**3.9b**	**31**	**0-85**	
EIDC	XII	06 07 00 41.4±.82	54.9N	162.0E	0	3.9b		**¶97xii1283**	
KRSC	XII	06 07 00 44.2	54.75N	162.34E	15	4.3b			
NEIC	XII	06 07 00 44.7	55.00N	162.09E	33	4.0b			
EIDC	Error ellipse is semi-major=24.9km semi-minor=20.9km azimuth=128Aftershock: abbreviated analysis								
ISC	**XII**	**06 07 03 41.5**±.92	**54.84N**±.061	**162.2E**±.18	**46**±8.8	**3.7b**	**25**	**0-85**	
EIDC	XII	06 07 03 36.8±.85	54.9N	162.1E	0	3.7b		**¶97xii1284**	
NEIC	XII	06 07 03 40.0	54.95N	162.14E	33				
KRSC	XII	06 07 03 40.8	54.86N	162.24E	22	4.3b			
EIDC	Error ellipse is semi-major=30.6km semi-minor=21.4km azimuth=135Aftershock: abbreviated analysis								
NEIC	Poor solution.								
ISC	**XII**	**06 07 08 01**±2.0	**54.51N**±.086	**161.6E**±.37	**37**±20		**10**	**0-3**	
KRSC	XII	06 07 08 00.6	54.51N	161.71E	38	3.7b		**¶97xii1286**	
ISC	**XII**	**06 07 23 11.5**±.96	**54.73N**±.062	**162.3E**±.17	**38**±10	**4.0b**	**32**	**0-85**	
EIDC	XII	06 07 23 07.7±.79	54.6N	162.4E	0	4.0b		**¶97xii1290**	
KRSC	XII	06 07 23 08.8	54.75N	162.52E	17	4.6b			
MOS	XII	06 07 23 09.9	54.9N	161.5E	33	4.5b			
NEIC	XII	06 07 23 10.5	54.96N	161.97E	33	4.3b			
EIDC	Error ellipse is semi-major=35.5km semi-minor=19.6km azimuth=141Aftershock: abbreviated analysis								
NEIC	Less reliable solution.								
ISC	**XII**	**06 07 29 37.3**±.75	**54.53N**±.056	**162.50E**±.086	**52**±7.1	**4.4b,4.9s**	**66**	**0-143**	
EIDC	XII	06 07 29 32.4±.64	54.7N	162.5E	0	4.3b,4.7s		**¶97xii1291**	
KRSC	XII	06 07 29 33.5	54.41N	163.08E	33	4.8b			
BJI	XII	06 07 29 35.9	54.70N	162.40E	33	5.1s			
NEIC	XII	06 07 29 35.9	54.74N	162.44E	33	4.6b			
MOS	XII	06 07 29 36.3	54.6N	162.5E	40	4.9b			
EIDC	Error ellipse is semi-major=23.8km semi-minor=13.9km azimuth=141								
ISC	**XII**	**06 07 42 19.9**±.80	**54.22N**±.065	**161.4E**±.17	**56**±7.1	**3.9b**	**24**	**0-86**	
EIDC	XII	06 07 42 14.2±.81	54.3N	161.3E	0	3.9b		**¶97xii1294**	
NEIC	XII	06 07 42 17.6	54.37N	161.30E	33	4.4b			
MOS	XII	06 07 42 17.7	54.1N	162.0E	33	4.5b			
KRSC	XII	06 07 42 20.5	54.21N	161.33E	38	4.5b			
EIDC	Error ellipse is semi-major=28.3km semi-minor=17.1km azimuth=123								
NEIC	Less reliable solution.								
ISC	**XII**	**06 08 11 19**±1.8	**54.81N**±.096	**161.7E**±.85	**16**±43		**9**	**0-5**	
KRSC	XII	06 08 11 16.6	54.80N	162.22E	15	4.1b		**¶97xii1303**	
ISC	**XII**	**06 08 24 30**±1.5	**54.24N**±.093	**161.6E**±.28	**29**±12		**11**	**0-3**	
KRSC	XII	06 08 24 29.0	54.23N	161.58E	20	4.0b		**¶97xii1306**	
ISC	**XII**	**06 08 31 05.6**±.86	**54.26N**±.059	**162.1E**±.13	**45**±8.7	**4.1b**	**41**	**0-81**	
KRSC	XII	06 08 31 02.0	54.11N	162.66E	22	4.6b		**¶97xii1308**	
NEIC	XII	06 08 31 04.3	54.33N	162.10E	33	4.6b			
EIDC	XII	06 08 31 05.1±.63	54.4N	162.1E	27±4.2	4.0b,3.5s			
MOS	XII	06 08 31 05.2	53.6N	162.8E	33	4.9b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi-major=23.3km semi-minor=13.1km azimuth=135								
ISC	**XII**	**06 08 52 50.7**±.97	**54.81N**±.070	**162.3E**±.19	**46**±9.0	**3.8b**	**22**	**0-85**	
NEIC	XII	06 08 52 49.3	54.97N	161.99E	33	4.3b		**¶97xii1317**	
KRSC	XII	06 08 52 49.4	54.83N	162.19E	12	4.2b			
EIDC	XII	06 08 52 56.7±1.63	54.9N	162.0E	86±15.0	3.6b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi-major=32.5km semi-minor=18.8km azimuth=127								
ISC	**XII**	**06 09 05 45**±1.7	**54.6N**±.18	**161.6E**±.32	**35**		**7**	**0-3**	
KRSC	XII	06 09 05 44.6	54.53N	161.66E	35	3.8b		**¶97xii1321**	
ISC	**XII**	**06 09 07 27**±1.8	**54.27N**±.077	**162.1E**±.29	**16**		**11**	**0-3**	
KRSC	XII	06 09 07 26.3	54.25N	161.97E	16	4.1b		**¶97xii1322**	
ISC	**XII**	**06 09 12 01**±2.1	**54.5N**±.11	**161.6E**±.40	**39**±22		**9**	**0-3**	
KRSC	XII	06 09 12 01.0	54.52N	161.61E	35	3.8b		**¶97xii1326**	
ISC	**XII**	**06 09 12 24**±1.3	**54.83N**±.085	**162.9E**±.13	**41**±13	**4.2b**	**35**	**1-85**	
KRSC	XII	06 09 12 20.0	54.70N	163.21E	16	4.6b		**¶97xii1327**	
MOS	XII	06 09 12 22.3	54.9N	162.7E	33	4.5b			

NEIC XII 06 09 12 23.1 55.00N 162.86E 33 4.2b
EIDC XII 06 09 12 25.8±1.60 55.0N 162.9E 39±10.9 3.9b
EIDC Error ellipse is semi−major=29.3km semi−minor=19.6km azimuth=168
EIDC XII 06 09 16 53.2±8.57 **54.6N** **159.4E** **0** **4.2b** **23-73**
¶97xii1329
EIDC Error ellipse is semi−major=254.2km semi−minor=25.3km azimuth=114
ISC XII 06 09 31 24.2±.66 **54.49N**±.066 **161.8E**±.15 **57**±7.0 **3.7b** **19 0-81**
EIDC XII 06 09 31 19.5±1.28 54.7N 161.3E 0 3.8b ¶97xii1333
NEIC XII 06 09 31 23.2 54.88N 161.31E 33
KRSC XII 06 09 31 25.0 54.49N 161.67E 38 4.3b
EIDC Error ellipse is semi−major=34.1km semi−minor=32.1km azimuth=61
NEIC Less reliable solution.
ISC XII 06 09 42 58.6±.81 **54.59N**±.059 **162.5E**±.12 **44**±8.3 **4.2b** **42 0-85**
KRSC XII 06 09 42 56.2 54.54N 162.60E 14 4.6b ¶97xii1337
EIDC XII 06 09 42 57.1±.73 54.8N 162.3E 16±4.5 4.0b,4.4L
MOS XII 06 09 42 57.5 54.8N 162.2E 30 4.6b
BJI XII 06 09 42 57.7 54.80N 162.30E 33 4.2b
NEIC XII 06 09 42 57.7 54.79N 162.33E 33 4.5b
EIDC Error ellipse is semi−major=22.4km semi−minor=13.5km azimuth=135
ISC XII 06 09 49 48±2.9 **54.5N**±.11 **162.6E**±.40 **8** **8 1-3**
KRSC XII 06 09 49 48.4 54.50N 162.49E 8 3.9b ¶97xii1342
ISC XII 06 09 52 48±1.3 **54.6N**±.11 **162.2E**±.27 **50**±15 **3.7b** **14 0-69**
KRSC XII 06 09 52 45.7 54.48N 162.53E 9 4.1b ¶97xii1345
NEIC XII 06 09 52 48.5 55.08N 162.30E 33 4.1b
EIDC XII 06 09 52 49.4±4.12 54.9N 162.3E 28±7.7 3.5b
NEIC Poor solution.
EIDC Error ellipse is semi−major=116.1km semi−minor=35.7km azimuth=18
ISC XII 06 10 01 29±3.4 **54.8N**±.10 **162.5E**±.43 **20**±22 **10 1-3**
KRSC XII 06 10 01 29.3 54.86N 162.30E 16 3.7b ¶97xii1348
ISC XII 06 10 09 37±1.5 **54.2N**±.14 **161.3E**±.39 **31** **5 0-2**
KRSC XII 06 10 09 37.0 54.24N 161.26E 31 3.7b ¶97xii1350
ISC XII 06 10 17 41±2.0 **54.1N**±.31 **161.3E**±.70 **0** **7 1-2**
KRSC XII 06 10 17 37.9 53.92N 161.81E 0 3.9b ¶97xii1355
ISC XII 06 10 22 00±1.1 **54.02N**±.069 **162.1E**±.16 **43**±9.7 **3.9b** **30 1-87**
KRSC XII 06 10 21 56.9 53.88N 162.37E 26 4.6b ¶97xii1357
MOS XII 06 10 21 59.0 54.1N 162.0E 33 4.8b
NEIC XII 06 10 21 59.0 54.20N 161.96E 33 4.5b
EIDC XII 06 10 22 02.5±1.44 54.1N 162.0E 48±14.3 3.6b
EIDC Error ellipse is semi−major=25.9km semi−minor=14.4km azimuth=142
EIDC XII 06 10 32 41.6±1.80 **53.9N** **158.1E** **0** **3.4b** **22-71**
¶97xii1360
EIDC Error ellipse is semi−major=218.7km semi−minor=23.0km azimuth=140
KRSC XII 06 10 35 14.5 **54.44N** **162.53E** **7** **3.9b** ¶97xii1363
ISC XII 06 10 40 52±4.7 **54.4N**±.11 **162.0E**±.70 **30** **7 0-3**
KRSC XII 06 10 40 52.3 54.49N 161.91E 30 3.8b ¶97xii1365
ISC XII 06 10 41 39.0±.73 **54.27N**±.075 **161.4E**±.18 **55**±7.9 **3.7b** **18 0-86**
NEIC XII 06 10 41 36.6 54.43N 161.26E 33 ¶97xii1366
KRSC XII 06 10 41 39.4 54.22N 161.36E 35 4.3b
EIDC XII 06 10 41 39.6±1.50 54.4N 161.1E 48±13.2 3.5b
NEIC Poor solution.
EIDC Error ellipse is semi−major=41.8km semi−minor=24.3km azimuth=125
ISC XII 06 10 52 09.8±.62 **54.0N**±.15 **161.5E**±.17 **33** **4.0b** **17 2-74**
NEIC XII 06 10 52 09.6 54.00N 161.53E 33 4.2b ¶97xii1371
MOS XII 06 10 52 09.8 54.0N 161.5E 33 4.5b
EIDC XII 06 10 52 15.4±1.68 54.1N 161.7E 62±18.1 3.8b
EIDC Error ellipse is semi−major=33.8km semi−minor=17.7km azimuth=153
ISC XII 06 11 14 43±2.1 **54.72N**±.079 **162.2E**±.31 **30**±12 **11 0-3**
KRSC XII 06 11 14 40.5 54.74N 162.42E 18 4.0b ¶97xii1377
ISC XII 06 11 16 31±5.8 **54.0N**±.19 **162.1E**±.94 **40** **7 1-3**
KRSC XII 06 11 16 28.1 53.95N 162.55E 40 ¶97xii1378
ISC XII 06 11 22 43±1.8 **54.3N**±.16 **161.5E**±.45 **39** **5 0-2**
KRSC XII 06 11 22 43.2 54.31N 161.36E 39 3.9b ¶97xii1383
ISC XII 06 11 24 14±1.2 **54.1N**±.27 **161.1E**±.54 **0** **7 0-2**
KRSC XII 06 11 24 11.0 53.90N 161.70E 0 3.8b ¶97xii1384
ISC XII 06 12 17 04±2.4 **54.1N**±.11 **161.5E**±.39 **9**±16 **9 0-2**
KRSC XII 06 12 17 03.5 54.11N 161.52E 7 4.0b ¶97xii1396
ISC XII 06 12 21 31±2.2 **54.1N**±.29 **161.4E**±.71 **0** **8 1-2**
KRSC XII 06 12 21 27.7 53.91N 161.85E 0 3.7b ¶97xii1400
ISC XII 06 12 37 22.3±.48 **54.85N**±.027 **162.04E**±.036 **41**±4.4 **5.3b,5.7s** **533 0-159**
BJI XII 06 12 37 18.9 55.01N 161.45E 16 5.0b,6.0s ¶97xii1406
NEIC XII 06 12 37 21.6 54.92N 162.10E 33 5.5b,5.6s
KRSC XII 06 12 37 21.8 54.82N 162.24E 21 5.6b
MOS XII 06 12 37 21.9 54.9N 162.1E 39 5.8b
EIDC XII 06 12 37 24.3±3.99 54.9N 162.0E 38±34.6 4.9b,5.7s
HRVD XII 06 12 37 28.2±.1 54.78N±.02 162.62E±.02 34
NEIC Mw5.9(HRV), Mw5.8(GS).
NEIC Moment tensor solution: s15, scale 10^{17}Nm; M_{rr}4.43; $M_{\theta\theta}$0.12; $M_{\phi\phi}$−4.54; $M_{r\theta}$1.02; $M_{r\phi}$2.43; $M_{\theta\phi}$−1.08. Depth 16km; Principal axes: T 5.15,Plg74°,Azm303°; N 0.31,Plg5°,Azm195°; P −5.46,Plg15°,Azm104°. Best double couple: $M_0$5.3×10^{17}Nm; NP1:ϕ_S186°,δ31°,λ80°. NP2: ϕ_S18°,δ60°,λ96°.
KRSC Felt I=V Mayak Kronozkiy
EIDC Error ellipse is semi−major=14.0km semi−minor=9.7km azimuth=139
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c73; Mantle waves: s9,c15; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}6.78±.09; $M_{\theta\theta}$−0.29±.12; $M_{\phi\phi}$−6.49±.12; $M_{r\theta}$1.65±.22; $M_{r\phi}$4.72±.23; $M_{\theta\phi}$−2.97±.12. Principal Axes: T 8.34,Plg73°,Azm286°; N 0.90,Plg2°,Azm21°; P −9.24,Plg17°,Azm111°. Best double couple: $M_0$8.8×10^{17}Nm, NP1:ϕ_S204°,δ28°,λ93°. NP2:ϕ_S20°,δ62°,λ88°.
KRSC XII 06 12 46 47.7 **54.62N** **161.82E** **33** **3.8b** ¶97xii1410
ISC XII 06 12 57 45±1.6 **54.7N**±.14 **162.2E**±.23 **38** 4.2b **7 0-24**
KRSC XII 06 12 57 43.7 54.71N 162.29E 38 4.1b ¶97xii1414
ISC XII 06 13 01 46±1.5 **54.2N**±.16 **160.9E**±.29 **46**±15 **3.8b** **12 0-70**
EIDC XII 06 13 01 42.3±1.22 54.3N 160.4E 0 3.8b ¶97xii1416
NEIC XII 06 13 01 45.5 54.42N 160.28E 33 4.2b
KRSC XII 06 13 01 46.6 54.37N 161.55E 41 4.0b
EIDC Error ellipse is semi−major=51.2km semi−minor=22.0km azimuth=145Aftershock: abbreviated analysis
NEIC Poor solution.
ISC XII 06 13 17 55±1.2 **54.81N**±.078 **162.3E**±.20 **46**±12 **3.8b** **22 0-72**
EIDC XII 06 13 17 51.1±1.15 55.1N 162.0E 0 3.7b ¶97xii1421
KRSC XII 06 13 17 52.7 54.80N 162.33E 14 4.3b
NEIC XII 06 13 17 53.5 55.05N 161.96E 33 4.7b
EIDC Error ellipse is semi−major=37.3km semi−minor=21.7km azimuth=154Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 06 13 18 21.8±.57 **54.4N**±.16 **162.0E**±.18 **33** **4.1b** **18 8-69**
NEIC XII 06 13 18 21.7 54.38N 162.02E 33 4.5b ¶97xii1422
MOS XII 06 13 18 22.1 53.9N 162.5E 33 4.6b
EIDC XII 06 13 18 32.9±5.09 54.4N 162.0E 122±48.7 3.8b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=29.6km semi−minor=14.7km azimuth=153Aftershock: abbreviated analysisLO CONF Depth
ISC XII 06 13 25 55±5.6 **54.2N**±.23 **161E**±1.1 **0** **7 0-3**
KRSC XII 06 13 25 50.0 54.27N 162.39E 0 3.8b ¶97xii1426
ISC XII 06 13 28 38±2.5 **54.3N**±.11 **162.8E**±.37 **8** **9 1-3**
KRSC XII 06 13 28 37.2 54.32N 162.85E 8 3.7b ¶97xii1428
ISC XII 06 13 36 10±1.3 **54.82N**±.081 **162.3E**±.26 **42**±11 **3.6b** **17 0-69**
EIDC XII 06 13 36 07.1±1.28 55.0N 162.1E 0 3.7b ¶97xii1431
KRSC XII 06 13 36 09.1 54.83N 162.31E 15 4.0b
NEIC XII 06 13 36 10.0 55.14N 162.02E 33
EIDC Error ellipse is semi−major=45.7km semi−minor=26.6km azimuth=148Aftershock: abbreviated analysis
NEIC Poor solution.
ISC XII 06 14 10 21±2.0 **54.5N**±.11 **162.2E**±.40 **50**±15 **11 0-59**
KRSC XII 06 14 10 22.8 54.55N 161.93E 28 4.2b ¶97xii1441
ISC XII 06 14 33 20.0±.69 **54.07N**±.081 **161.0E**±.20 **59**±6.8 **3.6b** **19 1-77**
NEIC XII 06 14 33 17.6 54.32N 160.70E 33 ¶97xii1446
KRSC XII 06 14 33 19.9 54.03N 161.09E 30 4.0b
EIDC XII 06 14 33 24.3 54.2N 160.8E 78±116.0 3.4b
NEIC Less reliable solution.
EIDC Origin time error = 12.33Error ellipse is semi−major=35.9km semi−minor=20.4km azimuth=135Aftershock: abbreviated analysisLO CONF Depth
ISC XII 06 14 59 52±2.2 **54.84N**±.092 **162.3E**±.34 **31**±16 **9 0-3**
KRSC XII 06 14 59 51.2 54.87N 162.28E 22 3.8b ¶97xii1451
ISC XII 06 15 02 09.0±.98 **54.01N**±.096 **161.0E**±.24 **15** **11 1-4**
KRSC XII 06 15 02 09.0 54.03N 161.07E 15 3.8b ¶97xii1452
ISC XII 06 15 21 38±1.0 **54.87N**±.066 **162.3E**±.19 **22** **3.3b** **15 0-69**
EIDC XII 06 15 21 29.0±4.84 53.9N 160.6E 0 3.5b ¶97xii1456
KRSC XII 06 15 21 38.2 54.89N 162.25E 22 3.9b
EIDC Error ellipse is semi−major=127.2km semi−minor=43.4km azimuth=18Aftershock: abbreviated analysisLO CONF Location
ISC XII 06 16 36 30±2.0 **54.52N**±.097 **162.8E**±.30 **5** **9 1-3**
KRSC XII 06 16 36 31.0 54.55N 162.60E 5 3.8b ¶97xii1466
ISC XII 06 16 58 57.1±.78 **54.84N**±.056 **162.2E**±.13 **41**±8.3 **4.0b** **35 0-85**
EIDC XII 06 16 58 53.5±.71 55.0N 162.1E 0 4.0b ¶97xii1470
KRSC XII 06 16 58 53.9 54.80N 162.52E 12 4.5b
MOS XII 06 16 58 54.2 55.0N 162.1E 16 4.5b
NEIC XII 06 16 58 56.4 54.97N 162.13E 33 4.4b
EIDC Error ellipse is semi−major=29.1km semi−minor=15.0km azimuth=147Aftershock: abbreviated analysis
ISC XII 06 17 05 45.5±.81 **54.08N**±.058 **161.7E**±.14 **46**±7.3 **4.0b** **36 0-86**
KRSC XII 06 17 05 43.2 54.03N 161.64E 6 4.3b ¶97xii1473
MOS XII 06 17 05 44.0 54.1N 161.7E 33 4.6b
NEIC XII 06 17 05 44.0 54.12N 161.74E 33 4.5b
EIDC XII 06 17 05 49.1±.64 54.1N 161.7E 59±5.1 3.7b,3.5s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=21.5km semi−minor=12.0km azimuth=156
ISC XII 06 17 27 56±1.2 **54.87N**±.089 **162.7E**±.10 **37**±13 **4.4b**,4.7s **61 1-85**
KRSC XII 06 17 27 53.3 54.59N 163.54E 40 4.6b ¶97xii1477
BJI XII 06 17 27 55.1 55.11N 162.32E 31 4.5b,5.0s
MOS XII 06 17 27 55.7 54.8N 163.0E 33 5.0b
NEIC XII 06 17 27 56.1 54.93N 162.73E 33 4.7b
EIDC XII 06 17 27 58.9±.62 54.9N 162.7E 38±4.2 4.0b,4.2L
EIDC Error ellipse is semi−major=20.5km semi−minor=11.0km azimuth=150Aftershock: abbreviated analysis
ISC XII 06 18 10 11.5±.66 **54.82N**±.052 **162.76E**±.078 **46**±6.8 **4.3b,4.6s** **72 1-142**
KRSC XII 06 18 10 06.7 54.72N 163.34E 14 5.0b ¶97xii1488
EIDC XII 06 18 10 07.4±.62 54.9N 162.8E 0 4.3b,4.3L
BJI XII 06 18 10 08.4 55.09N 162.89E 43 4.4b,4.9s
MOS XII 06 18 10 09.6 54.9N 162.8E 28 4.8b
NEIC XII 06 18 10 10.1 54.92N 162.69E 33 4.6b
EIDC Error ellipse is semi−major=18.8km semi−minor=11.5km azimuth=163
ISC XII 06 19 07 57±2.1 **54.69N**±.071 **162.8E**±.18 **28**±15 **3.7b** **21 1-85**
KRSC XII 06 19 07 55.1 54.65N 162.92E 11 4.3b ¶97xii1500
EIDC XII 06 19 07 55.8±.98 55.0N 162.2E 0 3.8b
EIDC Error ellipse is semi−major=37.4km semi−minor=20.7km azimuth=139
ISC XII 06 19 41 41±1.9 **54.22N**±.079 **161.7E**±.28 **19**±13 **3.6b**,5.2s **17 0-69**
KRSC XII 06 19 41 39.9 54.18N 161.75E 13 3.9b ¶97xii1508
EIDC XII 06 19 41 44.8±1.41 55.1N 159.3E 0 3.6b
EIDC Error ellipse is semi−major=49.3km semi−minor=27.5km azimuth=139
ISC XII 06 19 47 41.9±.44 **54.14N**±.029 **160.81E**±.045 **60**±3.8 **5.3b** **391 1-150**
BJI XII 06 19 47 37.5 54.51N 160.59E 28 5.2b,5.0s ¶97xii1510
NEIC XII 06 19 47 38.7 54.18N 160.88E 33 5.5b,4.7s
MOS XII 06 19 47 39.0 54.4N 160.9E 31 5.6b
KRSC XII 06 19 47 40.8 54.04N 161.30E 56 5.1b
HRVD XII 06 19 47 45.1±.4 53.84N±.04 161.20E±.07 64±3.1
EIDC XII 06 19 47 46.1±3.15 54.2N 160.8E 83±29.0 4.8b,4.4s
NEIC Mw5.2(HRV).
KRSC Felt I=IV M. Shipunskiy
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c42; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.77±.28; $M_{\theta\theta}$−3.29±.38; $M_{\phi\phi}$−3.48±.46; $M_{r\theta}$2.95±.49; $M_{r\phi}$3.33±.47; $M_{\theta\phi}$−3.29±.40. Principal Axes: T 8.11,Plg73°,Azm310°; N −0.10, Plg1°,Azm43°; P −8.01,Plg17°,Azm134°. Best double couple: $M_0$8.1×10^{16}Nm, NP1:ϕ_S225°, δ28°,λ92°. NP2:ϕ_S43°,δ62°,λ89°.
EIDC Error ellipse is semi−major=16.8km semi−minor=10.1km azimuth=147
ISC XII 06 20 00 36±1.1 **55.6N**±.47 **162.7E**±.69 **33** **3.6b** **7 25-79**
EIDC XII 06 20 00 33.0±1.30 55.6N 162.7E 0 3.7b ¶97xii1513
EIDC Error ellipse is semi−major=99.0km semi−minor=19.9km azimuth=140
ISC XII 06 20 09 44±1.2 **54.11N**±.083 **161.1E**±.28 **61**±11 **12 0-59**
KRSC XII 06 20 09 44.7 54.11N 161.05E 36 4.0b ¶97xii1515
ISC XII 06 20 35 12±3.1 **54.28N**±.085 **162.5E**±.46 **8** **9 1-5**
KRSC XII 06 20 35 12.9 54.27N 162.28E 8 4.0b ¶97xii1518
ISC XII 06 20 36 41±1.1 **54.36N**±.059 **162.4E**±.14 **39**±10 **4.0b** **31 0-78**
KRSC XII 06 20 36 37.9 54.25N 162.45E 7 4.3b ¶97xii1519
NEIC XII 06 20 36 40.3 54.42N 162.48E 33 4.3b
EIDC XII 06 20 36 42.1±.57 54.5N 162.4E 28±3.8 3.8b,4.5L
EIDC Error ellipse is semi−major=19.4km semi−minor=12.4km azimuth=147
ISC XII 06 21 21 16.7±.52 **54.36N**±.051 **161.1E**±.11 **62**±5.1 **3.9b** **39 0-85**
EIDC XII 06 21 21 11.0±.79 54.5N 160.9E 0 3.9b,4.4L ¶97xii1535
NEIC XII 06 21 21 14.1 54.48N 160.91E 33 4.3b
MOS XII 06 21 21 14.4 54.4N 161.3E 33 4.4b
KRSC XII 06 21 21 17.1 54.25N 161.23E 39 4.4b
EIDC Error ellipse is semi−major=23.9km semi−minor=14.8km azimuth=141
ISC XII 06 21 42 01.4±.72 **54.82N**±.056 **162.7E**±.10 **48**±7.4 **4.2b** **54 1-143**
EIDC XII 06 21 41 56.9±.65 54.9N 162.6E 0 4.2b,4.3L ¶97xii1539
KRSC XII 06 21 41 58.2 54.74N 163.07E 22 4.7b
NEIC XII 06 21 41 59.8 54.96N 162.54E 33 4.4b
MOS XII 06 21 42 00.0 55.1N 162.4E 33 4.6b
EIDC Error ellipse is semi−major=24.0km semi−minor=12.3km azimuth=147
ISC XII 06 21 57 40±2.1 **54.39N**±.057 **162.5E**±.11 **11**±13 **4.0b** **37 0-86**
KRSC XII 06 21 57 39.1 54.37N 162.54E 13 4.4b ¶97xii1543
EIDC XII 06 21 57 42.4±.90 54.9N 162.7E 0 3.9b,3.7L
MOS XII 06 21 57 42.5 54.4N 162.4E 33 4.5b

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	XII	06 21 57 42.5	54.43N	162.47E	33	4.4b		
EIDC		Error ellipse is semi-major=26.2km semi-minor=18.0km azimuth=172						
ISC	**XII**	**06 22 49 42**±2.6	**54.50N**±.081	**161.9E**±.43	**30**±8.9		**10**	**0-3**
KRSC	XII	06 22 49 40.3	54.50N	162.12E	25	3.8b		¶97xii1548
ISC	**XII**	**06 23 12 31**±1.6	**54.47N**±.083	**162.5E**±.26	**47**±14	**3.8b**	**15**	**0-69**
EIDC	XII	06 23 12 27.0±1.57	54.6N	162.5E	0	3.8b		¶97xii1554
KRSC	XII	06 23 12 27.9	54.45N	162.71E	11	4.0b		
NEIC	XII	06 23 12 29.8	54.64N	162.43E	33			
EIDC		Error ellipse is semi-major=46.5km semi-minor=26.2km azimuth=163						
NEIC		Poor solution.						
ISC	**XII**	**06 23 54 59**±5.0	**54.1N**±.12	**162.5E**±.74	**37**		**10**	**1-3**
KRSC	XII	06 23 54 57.1	54.07N	162.72E	37	3.8b		¶97xii1559
ISC	**XII**	**07 00 37 36.1**±.60	**54.51N**±.050	**161.87E**±.095	**41**±5.9	**4.2b**	**56**	**0-85**
NEIC	XII	07 00 37 35.4	54.69N	161.66E	33	4.6b		¶97xii1568
KRSC	XII	07 00 37 35.5	54.47N	161.94E	27	4.7b		
MOS	XII	07 00 37 35.6	54.6N	161.8E	35	4.8b		
EIDC	XII	07 00 37 36.6±.72	54.7N	161.6E	26±4.0	3.9b,4.5L		
EIDC		Error ellipse is semi-major=23.4km semi-minor=13.4km azimuth=147						
ISC	**XII**	**07 00 54 18**±2.0	**54.54N**±.083	**162.8E**±.29	**13**		**11**	**1-59**
KRSC	XII	07 00 54 19.5	54.56N	162.55E	13	4.0b		¶97xii1570
ISC	**XII**	**07 00 58 38.5**±.73	**54.54N**±.068	**161.7E**±.18	**59**±6.2	**4.0b**	**25**	**0-85**
NEIC	XII	07 00 58 36.9	54.82N	161.34E	33	4.0b		¶97xii1573
EIDC	XII	07 00 58 38.4±1.50	54.7N	161.3E	33±9.3	3.8b		
KRSC	XII	07 00 58 39.3	54.52N	161.61E	36	4.2b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi-major=37.1km semi-minor=22.0km azimuth=126						
ISC	**XII**	**07 01 37 52**±1.7	**54.54N**±.076	**161.8E**±.31	**27**±7.8		**11**	**0-59**
KRSC	XII	07 01 37 48.6	54.49N	162.18E	21	4.1b		¶97xii1578
ISC	**XII**	**07 02 00 02**±1.4	**54.28N**±.054	**162.3E**±.11	**31**±10	**4.1b**	**45**	**0-81**
KRSC	XII	07 01 59 58.9	54.24N	162.50E	7	4.6b		¶97xii1584
MOS	XII	07 02 00 02.3	54.3N	162.3E	32	4.8b		
NEIC	XII	07 02 00 02.4	54.39N	162.29E	33	4.6b		
EIDC	XII	07 02 00 02.7±.65	54.4N	162.2E	22±3.9	3.9b,4.8L		
EIDC		Error ellipse is semi-major=21.8km semi-minor=14.0km azimuth=134						
ISC	**XII**	**07 02 32 18.8**±.57	**54.22N**±.063	**162.6E**±.10	**31**	**3.9b**	**23**	**1-81**
KRSC	XII	07 02 32 19.2	54.23N	162.47E	31	4.2b		¶97xii1589
NEIC	XII	07 02 32 21.5	54.84N	162.63E	33	4.2b		
EIDC	XII	07 02 32 21.7±1.48	54.8N	162.8E	19±8.1	3.8b,4.2L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi-major=38.0km semi-minor=16.9km azimuth=145						
KRSC	**XII**	**07 02 34 06.8**	**54.19N**	**162.28E**	**3**	**3.7b**		**¶97xii1590**
ISC	**XII**	**07 05 04 59**±1.7	**54.1N**±.37	**161.2E**±.73	**38**		**5**	**1-2**
KRSC	XII	07 05 04 59.3	54.01N	161.42E	38	3.7b		¶97xii1616
ISC		Poorly determined						
ISC	**XII**	**07 05 40 55.5**±.79	**54.31N**±.055	**162.3E**±.11	**46**±8.2	**4.2b**	**48**	**0-86**
KRSC	XII	07 05 40 52.0	54.26N	162.44E	4	4.5b		¶97xii1624
NEIC	XII	07 05 40 54.2	54.41N	162.35E	33	4.5b		
MOS	XII	07 05 40 54.6	54.4N	162.3E	33	4.6b		
EIDC	XII	07 05 40 55.2±.81	54.4N	162.3E	26±4.4	4.0b		
EIDC		Error ellipse is semi-major=23.6km semi-minor=14.9km azimuth=157						
ISC	**XII**	**07 06 04 54.6**±.51	**54.03N**±.059	**162.15E**±.098	**0**	**3.8b**	**22**	**1-69**
KRSC	XII	07 06 04 53.0	53.96N	162.14E	0	4.1b		¶97xii1630
EIDC	XII	07 06 04 57.1±1.04	54.3N	162.0E	0	3.7b		
NEIC	XII	07 06 04 59.5	54.27N	161.90E	33			
EIDC		Error ellipse is semi-major=47.7km semi-minor=20.2km azimuth=155						
NEIC		Less reliable solution.						
ISC	**XII**	**07 06 54 46**±1.9	**54.16N**±.082	**162.1E**±.31	**13**		**10**	**0-3**
KRSC	XII	07 06 54 47.8	54.22N	161.71E	13	3.9b		¶97xii1639
ISC	**XII**	**07 07 02 42.1**±.96	**54.6N**±.18	**162.3E**±.23	**33**	**3.8b**	**10**	**25-69**
EIDC	XII	07 07 02 38.8±1.29	54.4N	162.4E	0	3.6b		¶97xii1644
NEIC	XII	07 07 02 41.9	54.59N	162.33E	33	4.2b		
EIDC		Error ellipse is semi-major=43.1km semi-minor=25.5km azimuth=154Aftershock: abbreviated analysis						
NEIC		Less reliable solution.						
ISC	**XII**	**07 07 38 39.3**±.70	**54.01N**±.068	**161.0E**±.18	**58**±7.2	**3.7b**	**22**	**1-86**
EIDC	XII	07 07 38 33.2±.94	54.1N	161.1E	0	3.8b,3.2s		¶97xii1651
NEIC	XII	07 07 38 37.0	54.26N	160.92E	33			
KRSC	XII	07 07 38 39.6	54.01N	160.98E	28	4.0b		
EIDC		Error ellipse is semi-major=36.4km semi-minor=22.3km azimuth=112Aftershock: abbreviated analysis						
NEIC		Poor solution.						
ISC	**XII**	**07 08 10 55.8**±.17	**54.14N**±.034	**162.75E**±.038	**24**	**5.2b,5.3s**	**350**	**1-145**
KRSC	XII	07 08 10 55.0	54.19N	162.80E	24	5.4b		¶97xii1657
BJI	XII	07 08 10 55.1	54.10N	162.90E	33	4.9b,5.8s		
MOS	XII	07 08 10 55.9	54.1N	162.7E	33	5.5b		
NEIC	XII	07 08 10 57.1	54.15N	162.90E	33	5.3b,5.1s		
EIDC	XII	07 08 10 58.4±.51	54.4N	162.5E	32±3.5	4.7b,5.3s		
HRVD	XII	07 08 11 01.6±.4	54.21N±.06	163.05E±.08	15±2.7			
NEIC		Mw5.4(HRV).						
EIDC		Error ellipse is semi-major=15.5km semi-minor=9.8km azimuth=146						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c38; Half duration: 1s3. Moment tensor: Scale 10^{16}Nm; M_{rr}9.12±.40; $M_{\theta\theta}$−1.49±.51; $M_{\phi\phi}$−7.63±.43; $M_{r\theta}$6.65±1.92; $M_{r\phi}$9.28±2.33; $M_{\theta\phi}$−6.61±.50. Principal Axes: T 14.2,Plg66°,Azm310°; N 2.7, Plg2°,Azm214°; P −16.9,Plg24°,Azm123°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S208°,δ21°,λ83°. NP2:ϕ_S35°,δ69°,λ93°.						
ISC	**XII**	**07 08 30 36**±4.2	**54.1N**±.14	**162.2E**±.43	**20**±24		**10**	**0-3**
KRSC	XII	07 08 30 32.0	54.17N	162.56E	1	3.9b		¶97xii1660
ISC	**XII**	**07 08 31 50**±1.4	**54.19N**±.066	**162.5E**±.20	**43**±11	**4.0b**	**32**	**1-79**
KRSC	XII	07 08 31 47.1	54.15N	162.49E	4	4.2b		¶97xii1661
MOS	XII	07 08 31 49.2	54.2N	162.6E	32	4.6b		
NEIC	XII	07 08 31 49.2	54.34N	162.55E	33	4.5b		
EIDC	XII	07 08 31 50.5±.97	54.4N	162.5E	26±5.4	3.8b,4.1L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi-major=30.8km semi-minor=17.0km azimuth=154						
ISC	**XII**	**07 08 32 36.4**±.92	**54.48N**±.080	**162.3E**±.13	**38**±9.6	**4.1b**	**40**	**0-85**
MOS	XII	07 08 32 32.8	54.6N	162.3E	11	4.7b		¶97xii1662
KRSC	XII	07 08 32 34.5	54.28N	162.41E	8	4.5b		
NEIC	XII	07 08 32 36.0	54.55N	162.33E	33	4.5b		
EIDC	XII	07 08 32 36.7±.82	54.5N	162.4E	25±5.8	4.0b,4.2L		
EIDC		Error ellipse is semi-major=24.4km semi-minor=13.3km azimuth=143Aftershock: abbreviated analysis						
ISC	**XII**	**07 08 41 07.1**±.69	**54.81N**±.053	**162.2E**±.11	**41**±7.6	**4.1b**	**47**	**0-85**
KRSC	XII	07 08 41 04.9	54.78N	162.41E	17	4.6b		¶97xii1663
MOS	XII	07 08 41 06.3	54.9N	162.1E	33	4.4b		
NEIC	XII	07 08 41 06.3	54.90N	162.15E	33	4.3b		
EIDC	XII	07 08 41 10.8±9.06	54.8N	162.2E	57±84.3	3.9b		
EIDC		Error ellipse is semi-major=22.4km semi-minor=14.2km azimuth=144						
ISC	**XII**	**07 08 44 47**±2.9	**54.24N**±.097	**162.1E**±.35	**23**±16	**3.9b**	**16**	**0-69**
KRSC	XII	07 08 44 42.0	54.21N	162.50E	7	3.8b		¶97xii1664
EIDC	XII	07 08 44 50.8±1.55	55.1N	159.1E	0	3.7b		
EIDC		Error ellipse is semi-major=49.2km semi-minor=32.4km azimuth=132						
ISC	**XII**	**07 10 12 38**±4.2	**54.3N**±.16	**162.4E**±.54	**7**		**5**	**0-3**
KRSC	XII	07 10 12 39.4	54.45N	162.21E	7	4.0b		¶97xii1674
ISC		Poorly determined						
ISC	**XII**	**07 11 40 54**±1.2	**54.20N**±.068	**162.4E**±.18	**49**±10	**3.8b**	**26**	**1-74**
KRSC	XII	07 11 40 50.7	54.16N	162.62E	8	4.0b		¶97xii1689
NEIC	XII	07 11 40 54.0	54.46N	162.49E	33	4.0b		
EIDC	XII	07 11 41 00.8±5.15	54.5N	162.3E	75±47.2	3.5b,3.5L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi-major=33.5km semi-minor=18.4km azimuth=154						
ISC	**XII**	**07 12 20 48.5**±.49	**54.58N**±.047	**161.55E**±.095	**57**±4.7	**4.2b,**3.1s	**55**	**0-85**
MOS	XII	07 12 20 45.7	54.6N	161.9E	33	4.8b		¶97xii1694
NEIC	XII	07 12 20 46.2	54.75N	161.37E	33	4.6b		
EIDC	XII	07 12 20 48.5±.57	54.7N	161.2E	40±5.4	3.9b,3.1s		
KRSC	XII	07 12 20 48.7	54.53N	161.63E	38	4.5b		
EIDC		Error ellipse is semi-major=20.2km semi-minor=13.3km azimuth=132						
ISC	**XII**	**07 12 31 32**±3.8	**54.32N**±.090	**162.7E**±.55	**15**		**11**	**1-3**
KRSC	XII	07 12 31 30.7	54.35N	162.95E	15	3.8b		¶97xii1697
ISC	**XII**	**07 13 33 06.0**±.89	**54.60N**±.081	**162.9E**±.15	**19**	**3.4b**	**17**	**1-69**
KRSC	XII	07 13 33 03.5	54.59N	163.19E	19	3.8b		¶97xii1707
EIDC	XII	07 13 33 04.9±1.31	54.9N	162.5E	0	3.5b		
NEIC	XII	07 13 33 08.0	55.01N	162.41E	33			
EIDC		Error ellipse is semi-major=49.7km semi-minor=23.9km azimuth=148Aftershock: abbreviated analysis						
NEIC		Poor solution.						
ISC	**XII**	**07 14 01 24**±1.4	**54.23N**±.081	**161.5E**±.26	**30**±12		**12**	**0-3**
KRSC	XII	07 14 01 24.0	54.26N	161.48E	27	4.0b		¶97xii1712
ISC	**XII**	**07 15 30 16**±1.0	**54.12N**±.086	**161.6E**±.23	**59**±8.6	**3.4b**	**19**	**0-74**
EIDC	XII	07 15 30 10.2±1.18	54.0N	161.6E	0	3.5b		¶97xii1726
NEIC	XII	07 15 30 13.3	54.12N	161.46E	33	4.0b		
KRSC	XII	07 15 30 16.0	54.13N	161.60E	20	4.0b		
EIDC		Error ellipse is semi-major=44.1km semi-minor=21.5km azimuth=147						
NEIC		Less reliable solution.						
ISC	**XII**	**07 15 33 59**±2.2	**54.75N**±.085	**162.7E**±.35	**17**		**12**	**1-3**
KRSC	XII	07 15 34 00.2	54.79N	162.43E	17	3.7b		¶97xii1727
ISC	**XII**	**07 16 12 55.9**±.69	**54.24N**±.078	**161.1E**±.17	**55**±7.0	**3.5b**	**21**	**0-81**
EIDC	XII	07 16 12 50.2±.90	54.2N	161.1E	0	3.7b		¶97xii1733
NEIC	XII	07 16 12 53.3	54.38N	161.11E	33			
KRSC	XII	07 16 12 56.5	54.12N	161.06E	21	4.0b		
EIDC		Error ellipse is semi-major=34.3km semi-minor=20.0km azimuth=143						
NEIC		Less reliable solution.						
ISC	**XII**	**07 16 27 11.5**±.98	**54.37N**±.042	**162.37E**±.047	**31**±7.1	**4.9b,4.7s**	**201**	**0-145**
EIDC	XII	07 16 27 08.7±.50	54.4N	162.3E	0	4.6b,4.6s		¶97xii1737
KRSC	XII	07 16 27 09.0	54.26N	162.54E	8	5.1b		
MOS	XII	07 16 27 10.3	54.3N	162.5E	30	5.4b		
BJI	XII	07 16 27 11.0	55.18N	161.69E	13	4.7b,5.4s		
NEIC	XII	07 16 27 11.9	54.50N	162.38E	33	5.1b,4.6s		
EIDC		Error ellipse is semi-major=17.7km semi-minor=11.1km azimuth=148						
ISC	**XII**	**07 16 48 42.0**±.37	**53.48N**±.052	**159.24E**±.086	**113**±4.0	**4.0b**	**51**	**0-145**
MOS	XII	07 16 48 34.9	53.7N	159.4E	33	4.8b		¶97xii1742
KRSC	XII	07 16 48 41.4	53.34N	159.53E	111	4.1b		
NEIC	XII	07 16 48 41.6	53.67N	159.15E	106	4.5b		
EIDC	XII	07 16 48 43.1±.54	53.7N	159.1E	103±5.2	3.7b,3.8s		
EIDC		Error ellipse is semi-major=18.6km semi-minor=10.5km azimuth=147						
ISC	**XII**	**07 17 33 26**±3.0	**54.1N**±.10	**161.9E**±.34	**16**±22		**12**	**0-3**
KRSC	XII	07 17 33 26.0	54.14N	161.71E	15	3.8b		¶97xii1746
ISC	**XII**	**07 17 55 42.6**±.78	**55.0N**±.14	**162.7E**±.21	**33**	**3.8b**	**16**	**25-78**
NEIC	XII	07 17 55 42.5	54.96N	162.76E	33	4.4b		¶97xii1750
EIDC	XII	07 17 55 43.1±1.08	55.5N	163.1E	0	3.6b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi-major=27.9km semi-minor=24.9km azimuth=169Aftershock: abbreviated analysis						
ISC	**XII**	**07 17 56 17.4**±.13	**54.64N**±.026	**162.83E**±.034	**22**	**5.4b,6.2s**	**553**	**1-151**
EIDC	XII	07 17 56 15.6±.44	54.9N	162.7E	0	5.1b,6.1s		¶97xii1751
KRSC	XII	07 17 56 17.6	54.60N	163.17E	22	5.9b		
BJI	XII	07 17 56 18.3	54.90N	162.57E	40	5.2b,6.7s		
NEIC	XII	07 17 56 18.7	54.66N	162.88E	33	5.6b,6.0s		
MOS	XII	07 17 56 18.8	54.8N	162.8E	33	6.2b,6.6s		
HRVD	XII	07 17 56 22.1±.1	54.50N±.01	163.08E±.02	15			
EIDC		Error ellipse is semi-major=15.7km semi-minor=9.6km azimuth=152						
NEIC		Mw6.5(OBN), Me6.0(GS).						
NEIC		Mw 6.2 (GS), 6.2 (HRV). Mo=6.0×10^{18}Nm (OBN).						
NEIC		Radiated energy from the P−wave first−motion solution: 2.0±0.3×10^{13}Nm/18						
NEIC		Broadband fault plane solution: P waves. NP1:ϕ_S205°,δ12°,λ90°. NP2:ϕ_S25°,δ78°,λ90°. Principal axes: T Plg57°,Azm295°; P Plg33°,Azm115°. Depth from synthetics of broadband displacement seismograms.						
NEIC		Moment tensor solution: s50, scale 10^{18}Nm; M_{rr}0.52; $M_{\theta\theta}$−0.54; $M_{\phi\phi}$0.02; $M_{r\theta}$1.39; $M_{r\phi}$1.84; $M_{\theta\phi}$0.04. Depth 5km; Principal axes: T 2.52,Plg49°,Azm302°; N −0.37,Plg7°,Azm40°; P −2.16,Plg40°,Azm135°. Best double couple: $M_0$2.3×10^{18}Nm; NP1:ϕ_S276°,δ8°,λ147°. NP2: ϕ_S39°,δ86°,λ83°.						
MOS		Seismic moment Mo=6.0×10^{18}Nm (after OBN)						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c75; Mantle waves: s25,c42; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}1.06±.01; $M_{\theta\theta}$−0.26±.01; $M_{\phi\phi}$−0.80±.01; $M_{r\theta}$1.07±.05; $M_{r\phi}$1.50±.05; $M_{\theta\phi}$−0.47±.01. Principal Axes: T 2.12,Plg60°,Azm308°; N 0.00,Plg2°,Azm214°; P −2.13,Plg30°,Azm123°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S205°,δ15°,λ81°. NP2:ϕ_S35°,δ75°,λ93°.						
ISC	**XII**	**07 18 08 43**±1.6	**54.39N**±.079	**161.7E**±.25	**20**±12		**12**	**0-3**
KRSC	XII	07 18 08 40.2	54.34N	162.09E	13	3.8b		¶97xii1754
ISC	**XII**	**07 18 14 27.4**±.60	**54.82N**±.042	**162.86E**±.059	**42**±5.7	**4.6b**	**137**	**1-145**
BJI	XII	07 18 14 24.6	55.08N	162.34E	21	4.8b		¶97xii1757
KRSC	XII	07 18 14 25.1	54.76N	163.14E	22	4.9b		
MOS	XII	07 18 14 25.3	54.8N	163.0E	25	5.2b		
NEIC	XII	07 18 14 26.5	54.88N	162.88E	33	4.9b		
EIDC	XII	07 18 14 28.8±.38	54.9N	162.8E	36±3.0	4.3b,4.8L		
EIDC		Error ellipse is semi-major=15.1km semi-minor=10.0km azimuth=145Aftershock: abbreviated analysis						
ISC	**XII**	**07 19 27 21.5**±.97	**54.50N**±.068	**161.6E**±.20	**38**	**3.6b**	**16**	**0-63**
EIDC	XII	07 19 27 17.7±2.36	54.5N	158.8E	0	3.7b		¶97xii1772
KRSC	XII	07 19 27 20.8	54.50N	161.64E	38	4.0b		
EIDC		Error ellipse is semi-major=68.2km semi-minor=30.3km azimuth=144Aftershock: abbreviated analysis						
ISC	**XII**	**07 20 06 01**±1.4	**54.48N**±.075	**161.6E**±.26	**38**±17		**12**	**0-3**
KRSC	XII	07 20 06 00.7	54.49N	161.67E	36	3.7b		¶97xii1781
ISC	**XII**	**07 21 23 29.1**±.89	**55.10N**±.076	**162.5E**±.15	**37**±9.2	**3.8b**	**34**	**1-85**
EIDC	XII	07 21 23 25.8±.71	55.2N	162.5E	0	3.8b		¶97xii1787
KRSC	XII	07 21 23 26.9	54.90N	163.00E	24	4.6b		
NEIC	XII	07 21 23 29.1	55.29N	162.32E	33	3.7b		
EIDC		Error ellipse is semi-major=27.8km semi-minor=14.6km azimuth=145Aftershock: abbreviated analysis						

ISC XII 07 21 41 08.1±.95 **54.44N**±.075 **162.1E**±.16 **47**±9.5 **4.1b** **28 0-74**
KRSC XII 07 21 41 04.6 54.31N 162.35E 3 4.3b **¶97xii1789**
EIDC XII 07 21 41 04.8±1.00 54.6N 162.2E 0 4.0b
MOS XII 07 21 41 06.7 54.5N 162.1E 33 4.9b
NEIC XII 07 21 41 07.8 54.72N 162.16E 33 4.6b
EIDC Error ellipse is semi−major=30.8km semi−minor=18.1km azimuth=156Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 07 23 13 45.1±.92 **54.30N**±.052 **162.4E**±.12 **35**±9.0 **4.3b** **56 0-86**
KRSC XII 07 23 13 42.5 54.24N 162.36E 6 4.5b **¶97xii1805**
NEIC XII 07 23 13 44.9 54.37N 162.42E 33 4.6b
MOS XII 07 23 13 45.3 54.2N 162.6E 33 4.8b
EIDC XII 07 23 13 45.9±.53 54.4N 162.3E 24±2.7 4.0b,4.6L
EIDC Error ellipse is semi−major=16.2km semi−minor=11.2km azimuth=152Aftershock: abbreviated analysis
ISC XII 07 23 20 40.2±.76 **53.9N**±.10 **160.8E**±.20 **0** **3.8b** **15 1-70**
KRSC XII 07 23 20 33.7 53.74N 161.67E 0 3.9b **¶97xii1806**
EIDC XII 07 23 20 41.3±1.04 54.6N 159.8E 0 3.7b
EIDC Error ellipse is semi−major=45.7km semi−minor=19.3km azimuth=149Aftershock: abbreviated analysis
ISC XII 07 23 23 49±2.1 **54.54N**±.086 **161.7E**±.39 **37**±19 **11 0-3**
KRSC XII 07 23 23 48.8 54.57N 161.67E 35 3.8b **¶97xii1808**
ISC XII 07 23 35 10.0±.67 **54.2N**±.12 **160.9E**±.21 **33** **3.9b** **16 0-70**
KRSC XII 07 23 35 04.7 53.64N 162.08E 27 4.0b **¶97xii1812**
EIDC XII 07 23 35 08.3±1.08 54.4N 160.6E 0 3.9b
NEIC XII 07 23 35 11.3 54.51N 160.61E 33 4.0b
EIDC Error ellipse is semi−major=42.0km semi−minor=20.4km azimuth=156Aftershock: abbreviated analysis
NEIC Poor solution.
ISC XII 08 00 31 43±1.2 **53.98N**±.088 **161.0E**±.26 **36** **10 1-3**
KRSC XII 08 00 31 43.1 53.94N 161.12E 36 3.7b **¶97xii1827**
ISC XII 08 00 45 30±1.0 **54.46N**±.074 **161.5E**±.20 **32** **11 0-3**
KRSC XII 08 00 45 29.7 54.51N 161.58E 32 3.8b **¶97xii1831**
ISC XII 08 02 14 20±5.9 **54.21N**±.084 **162.3E**±.87 **0** **8 0-3**
KRSC XII 08 02 14 18.7 54.24N 162.32E 0 3.7b **¶97xii1841**
ISC XII 08 02 30 02±1.5 **54.69N**±.067 **162.9E**±.12 **27**±12 **3.9b** **28 1-85**
KRSC XII 08 02 30 02.3 54.63N 162.84E 24 4.4b **¶97xii1842**
NEIC XII 08 02 30 03.4 54.94N 162.59E 33 3.9b
EIDC XII 08 02 30 07.7±1.52 54.9N 162.6E 54±13.2 3.7b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=29.1km semi−minor=16.5km azimuth=143Aftershock: abbreviated analysis
ISC XII 08 02 32 58±4.7 **54.2N**±.14 **162.1E**±.48 **17**±33 **9 0-3**
KRSC XII 08 02 32 54.6 54.22N 162.27E 2 4.0b **¶97xii1843**
ISC XII 08 03 57 23±1.6 **54.29N**±.072 **161.8E**±.18 **22**±11 **4.0b** **20 0-88**
KRSC XII 08 03 57 15.5 54.22N 162.50E 1 4.3b **¶97xii1857**
EIDC XII 08 03 57 30.5±1.33 55.0N 162.0E 35±10.1 3.9b
EIDC Error ellipse is semi−major=33.8km semi−minor=22.5km azimuth=142Aftershock: abbreviated analysis
ISC XII 08 10 12 58.3±.97 **54.23N**±.065 **162.4E**±.14 **3** **3.5b** **16 1-69**
KRSC XII 08 10 12 57.7 54.23N 162.34E 3 3.9b **¶97xii1908**
EIDC XII 08 10 12 59.0±1.36 53.8N 163.3E 0 3.5b,3.7L
EIDC Error ellipse is semi−major=52.4km semi−minor=23.0km azimuth=149
ISC XII 08 10 48 31.8±.48 **54.75N**±.049 **161.67E**±.077 **50**±4.8 **4.8b**,4.1s **117 0-145**
NEIC XII 08 10 48 30.3 54.89N 161.56E 33 4.9b **¶97xii1914**
BJI XII 08 10 48 30.7 54.89N 161.60E 35
MOS XII 08 10 48 31.1 54.9N 161.6E 38 4.6b
KRSC XII 08 10 48 31.6 54.67N 161.86E 43 4.6b
EIDC XII 08 10 48 32.4±.61 54.9N 161.4E 36±4.3 4.2b,3.9s
EIDC Error ellipse is semi−major=17.3km semi−minor=12.0km azimuth=150
ISC XII 08 11 27 25±3.5 **54.3N**±.10 **162.1E**±.38 **19**±23 **11 0-5**
KRSC XII 08 11 27 25.9 54.35N 162.03E 22 3.8b **¶97xii1917**
ISC XII 08 11 53 18.2±.80 **55.14N**±.095 **162.6E**±.17 **45** **3.3b** **11 1-69**
KRSC XII 08 11 53 09.5 55.19N 163.86E 45 3.9b **¶97xii1920**
EIDC XII 08 11 53 14.5±1.52 54.5N 163.4E 0 3.4b
EIDC Error ellipse is semi−major=163.0km semi−minor=26.3km azimuth=146
ISC XII 08 13 27 12±1.6 **55.07N**±.067 **162.9E**±.11 **23**±14 **3.7b** **23 1-85**
KRSC XII 08 13 27 11.9 55.08N 162.95E 19 4.2b **¶97xii1934**
EIDC XII 08 13 27 15.1±.99 55.2N 162.6E 33±5.8 3.5b,3.5s
EIDC Error ellipse is semi−major=32.5km semi−minor=13.6km azimuth=153
ISC XII 08 13 39 49±4.0 **54.3N**±.14 **162.3E**±.44 **23**±25 **9 0-3**
KRSC XII 08 13 39 47.4 54.31N 162.45E 16 3.9b **¶97xii1935**
ISC XII 08 13 45 19±1.2 **54.79N**±.057 **162.31E**±.097 **32**±9.7 **4.0b** **32 0-85**
EIDC XII 08 13 45 15.6±.75 55.0N 162.1E 0 3.9b,3.6L **¶97xii1937**
KRSC XII 08 13 45 17.3 54.81N 162.39E 18 4.5b
NEIC XII 08 13 45 18.7 54.98N 162.03E 33 4.3b
MOS XII 08 13 45 19.2 54.8N 162.2E 33 4.6b
EIDC Error ellipse is semi−major=47.6km semi−minor=14.7km azimuth=145
NEIC Less reliable solution.
ISC XII 08 17 27 17±1.4 **54.60N**±.080 **162.0E**±.29 **58**±12 **13 0-59**
KRSC XII 08 17 27 18.2 54.66N 161.78E 38 3.8b **¶97xii1971**
ISC XII 08 18 05 15.8±.64 **55.30N**±.050 **162.90E**±.074 **51**±6.9 **4.5b**,4.8s **78 1-145**
KRSC XII 08 18 05 12.3 55.18N 163.32E 18 4.8b **¶97xii1980**
BJI XII 08 18 05 12.6 54.75N 162.68E 27 4.5b,4.8s
NEIC XII 08 18 05 13.8 55.30N 162.96E 33 4.7b
MOS XII 08 18 05 14.5 55.4N 163.0E 36 4.8b
EIDC XII 08 18 05 17.7±.58 55.3N 162.8E 50±5.0 4.1b
EIDC Error ellipse is semi−major=22.5km semi−minor=9.9km azimuth=152Aftershock: abbreviated analysis
ISC XII 08 19 05 25±2.2 **54.46N**±.082 **162.0E**±.32 **27**±11 **13 0-4**
KRSC XII 08 19 05 25.4 54.50N 161.91E 28 4.0b **¶97xii1993**
ISC XII 08 19 33 51±1.6 **54.24N**±.057 **162.5E**±.12 **22**±11 **4.0b** **46 1-86**
KRSC XII 08 19 33 50.6 54.23N 162.62E 22 4.6b **¶97xii1999**
MOS XII 08 19 33 52.1 54.2N 162.6E 35 4.7b
NEIC XII 08 19 33 52.6 54.32N 162.45E 33 4.5b
EIDC XII 08 19 33 54.2±.76 54.5N 162.2E 28±4.1 3.9b,4.3s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=23.8km semi−minor=13.0km azimuth=145Aftershock: abbreviated analysis
ISC XII 08 20 20 16±1.3 **54.58N**±.073 **162.3E**±.23 **36**±16 **3.6b** **16 0-69**
KRSC XII 08 20 20 13.5 54.56N 162.41E 14 3.8b **¶97xii2010**
EIDC XII 08 20 20 13.9±4.82 54.9N 162.2E 0 3.7b
EIDC Error ellipse is semi−major=126.5km semi−minor=39.2km azimuth=18
ISC XII 08 20 56 06.2±.68 **53.95N**±.065 **160.8E**±.17 **9** **4.0b** **30 1-81**
KRSC XII 08 20 56 02.9 53.81N 161.51E 9 4.2b **¶97xii2013**
MOS XII 08 20 56 10.3 54.3N 159.0E 33 4.8b
NEIC XII 08 20 56 26.8 54.19N 159.61E 200 4.2b
EIDC XII 08 20 56 35.8±4.15 54.0N 159.8E 278±43.0 3.3b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=32.0km semi−minor=13.2km azimuth=148Aftershock: abbreviated analysis
ISC XII 08 22 24 02±1.2 **54.4N**±.12 **161.5E**±.28 **30** **7 0-3**
KRSC XII 08 22 24 02.1 54.42N 161.47E 30 3.7b **¶97xii2026**
ISC XII 08 22 26 25.8±.84 **54.6N**±.22 **162.7E**±.31 **66** **3.8b** **15 1-85**
EIDC XII 08 22 26 20.9±1.19 54.9N 162.8E 0 3.9b **¶97xii2029**
NEIC XII 08 22 26 24.1 54.92N 162.74E 33 4.3b
KRSC XII 08 22 26 34.4 54.53N 161.68E 66 4.2b
EIDC Error ellipse is semi−major=48.1km semi−minor=20.9km azimuth=150
NEIC Poor solution.
ISC XII 09 00 06 39±2.8 **54.3N**±.11 **161.8E**±.49 **26** **5 0-3**
KRSC XII 09 00 06 38.8 54.39N 161.92E 26 3.9b **¶97xii2045**
ISC XII 09 05 59 08±1.2 **54.0N**±.18 **161.0E**±.41 **36** **11 1-5**
KRSC XII 09 05 59 08.6 53.98N 161.07E 36 3.9b **¶97xii2114**
ISC XII 09 11 03 14±1.4 **54.46N**±.053 **162.51E**±.087 **16**±11 **4.4b,4.2s** **69 0-86**
KRSC XII 09 11 03 14.6 54.43N 162.55E 25 4.9b **¶97xii2158**
MOS XII 09 11 03 16.2 54.4N 162.5E 33 4.7b
BJI XII 09 11 03 17.0 54.60N 162.30E 33 4.4b,4.8s
NEIC XII 09 11 03 17.0 54.69N 162.35E 33 4.6b
EIDC XII 09 11 03 18.4±.95 54.7N 162.3E 26±5.8 4.0b,4.0s
EIDC Error ellipse is semi−major=20.3km semi−minor=13.1km azimuth=151Aftershock: abbreviated analysis
ISC XII 09 13 32 39.6±.70 **54.24N**±.066 **161.3E**±.17 **56**±6.1 **4.0b** **26 0-86**
EIDC XII 09 13 32 34.4±.91 54.3N 161.0E 0 4.0b **¶97xii2176**
NEIC XII 09 13 32 37.9 54.47N 160.93E 33 4.2b
KRSC XII 09 13 32 40.2 54.23N 161.27E 32 4.2b
EIDC Error ellipse is semi−major=31.1km semi−minor=17.4km azimuth=126Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 09 17 04 58.1±.95 **54.19N**±.075 **161.4E**±.23 **54**±7.9 **4.0b** **18 0-81**
EIDC XII 09 17 04 52.1±2.12 54.3N 161.7E 0 4.0b **¶97xii2205**
KRSC XII 09 17 04 59.4 54.23N 161.29E 39 3.9b
EIDC Error ellipse is semi−major=82.1km semi−minor=28.1km azimuth=97Aftershock: abbreviated analysis
ISC XII 09 19 49 54±3.8 **54.94N**±.093 **162.9E**±.56 **15** **11 1-4**
KRSC XII 09 19 49 52.6 54.99N 163.03E 15 3.8b **¶97xii2228**
ISC XII 09 20 46 26.7±.88 **55.04N**±.071 **162.9E**±.14 **22** **13 1-58**
KRSC XII 09 20 46 27.5 55.06N 162.83E 22 4.0b **¶97xii2235**
ISC XII 09 21 14 52.9±.88 **55.13N**±.061 **162.7E**±.14 **44**±9.2 **3.8b**,3.5s **28 1-82**
EIDC XII 09 21 14 48.7±.74 55.2N 162.5E 0 3.8b,3.5s **¶97xii2239**
KRSC XII 09 21 14 50.6 55.07N 162.85E 16 4.4b
NEIC XII 09 21 14 51.9 55.31N 162.46E 33 4.1b
MOS XII 09 21 14 52.0 55.3N 162.6E 33 4.7b
EIDC Error ellipse is semi−major=30.0km semi−minor=15.8km azimuth=135
NEIC Less reliable solution.
ISC XII 09 23 17 47.9±.90 **54.15N**±.074 **162.5E**±.15 **11** **3.8b** **15 1-69**
KRSC XII 09 23 17 49.6 54.25N 162.21E 11 4.1b **¶97xii2254**
EIDC XII 09 23 17 51.1±1.17 54.5N 162.4E 19±5.4 3.6b
EIDC Error ellipse is semi−major=42.0km semi−minor=21.3km azimuth=164
KRSC XII 09 23 24 19.5 **54.60N** **162.16E** **23** **3.8b** **¶97xii2255**
ISC XII 10 00 09 37±2.5 **54.31N**±.089 **161.9E**±.26 **17**±19 3.0b **12 0-42**
KRSC XII 10 00 09 32.8 54.29N 162.37E 6 4.0b **¶97xii2265**
ISC XII 10 02 40 51.8±.59 **54.23N**±.066 **161.3E**±.14 **50**±7.9 **3.5b** **21 0-81**
EIDC XII 10 02 40 45.8±1.22 54.3N 160.8E 0 3.6b **¶97xii2282**
NEIC XII 10 02 40 48.8 54.44N 160.62E 33
KRSC XII 10 02 40 52.4 54.26N 161.26E 39 4.2b
EIDC Error ellipse is semi−major=40.9km semi−minor=27.0km azimuth=136Aftershock: abbreviated analysis
NEIC Poor solution.
ISC XII 10 08 08 18.2±.54 **54.77N**±.032 **162.81E**±.042 **41**±4.9 **5.1b,5.1s** **324 1-145**
KRSC XII 10 08 08 14.1 54.74N 163.28E 15 5.4b **¶97xii2312**
BJI XII 10 08 08 14.2 55.10N 162.32E 11 5.1b,5.7s
EIDC XII 10 08 08 14.6±.49 54.9N 162.7E 0 5.0b,5.0s
MOS XII 10 08 08 15.8 54.9N 162.9E 22 5.3b
NEIC XII 10 08 08 17.6 54.85N 162.95E 33 5.2b,4.9s
HRVD XII 10 08 08 23.7±.4 54.83N±.05 163.10E±.08 20±2.8
EIDC Error ellipse is semi−major=17.0km semi−minor=10.3km azimuth=150
NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c40; Half duration: 1s3. Moment tensor: Scale 10^{16}Nm; M_{rr}9.11±.37; $M_{\theta\theta}$−3.38±.49; $M_{\phi\phi}$−5.73±.49; $M_{r\theta}$6.91±1.40; $M_{r\theta}$8.81±1.60; $M_{\theta\phi}$−5.98±.48. Principal Axes: T 14.2,Plg66°,Azm307°; N 1.5, Plg1°,Azm39°; P −15.7,Plg24°,Azm129°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S221°, δ21°,λ92°. NP2:ϕ_S38°,δ69°,λ89°.
ISC XII 10 08 19 25.1±.82 **54.98N**±.071 **162.6E**±.12 **37**±8.4 **4.2b** **45 1-85**
KRSC XII 10 08 19 21.5 54.79N 163.13E 13 4.7b **¶97xii2314**
EIDC XII 10 08 19 22.4±.68 55.0N 162.4E 0 4.1b,4.4L
MOS XII 10 08 19 22.7 55.1N 162.5E 17 4.4b
NEIC XII 10 08 19 25.0 55.07N 162.63E 33 4.3b
EIDC Error ellipse is semi−major=22.5km semi−minor=15.1km azimuth=150
NEIC Less reliable solution.
ISC XII 10 09 56 14±3.8 **54.5N**±.19 **162.4E**±.26 **100**±36 **3.8b** **12 8-74**
EIDC XII 10 09 56 03.6±1.20 54.5N 162.5E 0 3.8b **¶97xii2327**
NEIC XII 10 09 56 06.9 54.28N 162.84E 33 3.9b
EIDC Error ellipse is semi−major=39.4km semi−minor=23.6km azimuth=158
NEIC Less reliable solution.
ISC XII 10 11 13 24.1±.65 **54.96N**±.050 **162.77E**±.072 **43**±6.6 **4.5b,5.0s** **91 1-142**
KRSC XII 10 11 13 20.0 54.89N 163.10E 9 4.9b **¶97xii2337**
BJI XII 10 11 13 21.3 55.00N 163.11E 33 4.7b,5.3s
MOS XII 10 11 13 22.5 55.1N 162.7E 26 5.1b
EIDC XII 10 11 13 22.8±.68 55.4N 162.8E 0 4.4b,4.5L
NEIC XII 10 11 13 24.4 54.95N 163.19E 33 4.7b,4.2s
EIDC Error ellipse is semi−major=21.6km semi−minor=13.2km azimuth=150
ISC XII 10 12 58 04.4±.75 **54.31N**±.068 **162.5E**±.12 **21** **3.7b** **20 1-69**
KRSC XII 10 12 58 03.4 54.30N 162.62E 21 4.0b **¶97xii2356**
EIDC XII 10 12 58 05.0±1.64 54.9N 162.3E 0 3.8b
NEIC XII 10 12 58 07.8 54.83N 162.36E 33
EIDC Error ellipse is semi−major=52.5km semi−minor=23.8km azimuth=171
NEIC Poor solution.
ISC XII 10 13 55 01±1.2 **54.24N**±.077 **161.9E**±.22 **38**±12 **3.4b** **21 0-81**
NEIC XII 10 13 55 00.4 54.51N 161.68E 33 3.0b **¶97xii2365**
KRSC XII 10 13 55 01.7 54.26N 161.62E 20 3.9b
EIDC XII 10 13 55 02.7±.83 54.3N 161.8E 38±7.4 3.4b
NEIC Poor solution.
EIDC Error ellipse is semi−major=39.9km semi−minor=17.6km azimuth=145
ISC XII 10 15 01 41.4±.89 **54.29N**±.058 **161.9E**±.15 **38**±8.2 **3.8b**,3.2s **29 0-81**
MOS XII 10 15 01 37.7 54.2N 162.1E 13 4.5b **¶97xii2372**
KRSC XII 10 15 01 40.6 54.24N 161.90E 20 4.2b
NEIC XII 10 15 01 41.1 54.44N 161.94E 33 3.6b
EIDC XII 10 15 01 42.2±.58 54.4N 161.9E 28±3.8 3.8b,3.2s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=18.5km semi−minor=13.2km azimuth=136

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**10 15 48 01**±1.1	**54.38N**±.082	**161.9E**±.23	**47**±8.9	**3.7b**	**19**	**0-81**
KRSC	XII	10 15 47 55.6	54.21N	162.47E	7	4.0b		¶97xii2381
NEIC	XII	10 15 47 59.4	54.59N	161.65E	33			
EIDC	XII	10 15 48 00.6±.97	54.5N	161.7E	27±5.9	3.6b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=31.2km semi−minor=21.0km azimuth=134						
EIDC	**XII**	**10 15 56 15.8**±3.18	**53.9N**	**160.8E**	**36**±11.0	**3.3b**		**28-81**
								¶97xii2384
EIDC		Error ellipse is semi−major=291.8km semi−minor=25.2km azimuth=130						
ISC	**XII**	**10 16 27 35**±1.7	**54.22N**±.071	**162.3E**±.24	**2**		**11**	**0-59**
KRSC	XII	10 16 27 33.2	54.24N	162.39E	2	3.8b		¶97xii2389
ISC	**XII**	**10 16 42 49.3**±.89	**54.90N**±.059	**162.2E**±.17	**45**±8.9	**3.9b**	**25**	**0-85**
NEIC	XII	10 16 42 48.4	55.09N	161.98E	33	4.0b		¶97xii2391
KRSC	XII	10 16 42 49.4	54.88N	162.15E	28	4.3b		
EIDC	XII	10 16 42 53.5±1.57	55.0N	162.0E	63±12.9	3.7b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=29.5km semi−minor=16.9km azimuth=139Aftershock: abbreviated analysis						
ISC	**XII**	**10 20 22 19**±1.1	**54.17N**±.084	**162.6E**±.16	**4**		**11**	**1-3**
KRSC	XII	10 20 22 19.7	54.24N	162.57E	4	4.0b		¶97xii2423
ISC	**XII**	**10 23 21 01.9**±.53	**54.87N**±.067	**163.0E**±.10	**34**	**3.9b**	**22**	**1-82**
KRSC	XII	10 23 21 01.8	54.92N	162.95E	34	4.2b		¶97xii2444
EIDC	XII	10 23 21 02.3±.98	54.5N	164.3E	0	3.9b,3.3s		
NEIC	XII	10 23 21 05.1	54.62N	164.19E	33			
EIDC		Error ellipse is semi−major=39.8km semi−minor=20.6km azimuth=144						
NEIC		Poor solution.						
ISC	**XII**	**11 03 08 53.3**±.58	**54.82N**±.046	**162.16E**±.073	**46**±5.7	**4.5b,4.4s**	**105**	**0-88**
KRSC	XII	11 03 08 51.8	54.78N	162.35E	22	4.7b		¶97xii2475
BJI	XII	11 03 08 52.1	54.90N	162.20E	33	4.5b,5.1s		
NEIC	XII	11 03 08 52.1	54.92N	162.18E	33	4.7b,4.2s		
MOS	XII	11 03 08 52.8	54.9N	162.2E	39	5.0b,4.4s		
EIDC	XII	11 03 08 56.6±.69	54.9N	162.2E	59±6.0	4.2b,4.3s		
EIDC		Error ellipse is semi−major=19.3km semi−minor=12.7km azimuth=133						
ISC	**XII**	**11 04 00 33.6**±.63	**55.03N**±.042	**162.42E**±.060	**43**±6.0	**4.7b,5.0s**	**159**	**1-145**
BJI	XII	11 04 00 29.5	55.16N	162.11E	18	4.8b,5.4s		¶97xii2487
MOS	XII	11 04 00 30.6	55.1N	162.4E	20	5.2b,5.0s		
KRSC	XII	11 04 00 31.4	54.88N	162.78E	15	5.2b		
NEIC	XII	11 04 00 32.7	55.08N	162.55E	33	4.9b,5.0s		
EIDC	XII	11 04 00 34.4±1.47	55.1N	162.5E	35±11.9	4.4b,4.7s		
HRVD	XII	11 04 00 39.1±.7	54.95N±.08	163.50E±.11	15			
NEIC		Mw5.2(HRV).						
EIDC		Error ellipse is semi−major=19.4km semi−minor=11.7km azimuth=140						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c31; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.99±.34; $M_{\theta\theta}$−1.79±.53; $M_{\phi\phi}$−4.20±.44; $M_{r\theta}$2.45±1.08; $M_{r\phi}$1.12±1.13; $M_{\theta\phi}$−2.66±.58. Principal Axes: T 6.71,Plg74°,Azm352°; N −0.36,Plg11°,Azm218°; P −6.34,Plg11°,Azm125°. Best double couple: $M_0$6.5×10^{16}Nm, NP1:ϕ_S201°,δ35°,λ70°. NP2:ϕ_S45°,δ57°,λ103°.						
ISC	**XII**	**11 11 14 43**±1.1	**54.19N**±.077	**161.3E**±.26	**32**±13		**13**	**0-5**
KRSC	XII	11 11 14 43.9	54.24N	161.22E	35	4.0b		¶97xii2548
ISC	**XII**	**11 11 30 02.7**±.93	**54.46N**±.076	**162.7E**±.15	**40**	**3.4b**	**16**	**1-59**
EIDC	XII	11 11 29 57.2±6.99	53.6N	159.9E	0	3.6b		¶97xii2551
KRSC	XII	11 11 30 04.0	54.52N	162.64E	40	3.9b		
EIDC		Error ellipse is semi−major=167.7km semi−minor=43.9km azimuth=9						
ISC	**XII**	**11 14 55 16.1**±.62	**54.85N**±.039	**162.72E**±.055	**39**±5.6	**4.9b,4.8s**	**210**	**1-145**
BJI	XII	11 14 55 12.7	54.97N	162.72E	30	4.7b,5.2s		¶97xii2587
KRSC	XII	11 14 55 13.2	54.79N	163.13E	15	5.2b		
MOS	XII	11 14 55 14.1	55.0N	162.7E	22	5.3b,4.8s		
NEIC	XII	11 14 55 15.5	54.88N	162.84E	33	5.1b,4.5s		
EIDC	XII	11 14 55 18.3±.60	54.9N	162.9E	40±4.9	4.4b,4.5s		
HRVD	XII	11 14 55 20.9±1.7	54.76N±.17	163.91E±.17	40±6.2			
NEIC		Mw5.1(HRV).						
EIDC		Error ellipse is semi−major=16.9km semi−minor=10.5km azimuth=141						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s12,c19; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.78±.37; $M_{\theta\theta}$−0.60±.57; $M_{\phi\phi}$−3.19±.54; $M_{r\theta}$0.79±.72; $M_{r\phi}$−1.53±.85; $M_{\theta\phi}$−3.13±.66. Principal Axes: T 4.59,Plg63°,Azm43°; N 0.77, Plg26°,Azm210°; P −5.36,Plg5°,Azm303°. Best double couple: $M_0$5.0×10^{16}Nm, NP1:ϕ_S58°, δ46°,λ128°. NP2:ϕ_S190°,δ56°,λ58°.						
ISC	**XII**	**11 16 54 11.9**±.84	**54.36N**±.069	**161.7E**±.16	**45**±19		**14**	**0-5**
KRSC	XII	11 16 54 12.9	54.43N	161.49E	37	4.2b		¶97xii2604
ISC	**XII**	**11 19 03 35.8**±.90	**54.48N**±.072	**161.8E**±.16	**43**±16		**12**	**0-3**
KRSC	XII	11 19 03 36.5	54.53N	161.62E	36	3.7b		¶97xii2626
ISC	**XII**	**11 21 58 24**±2.8	**54.5N**±.11	**162.1E**±.40	**30**±14		**11**	**0-3**
KRSC	XII	11 21 58 24.7	54.51N	161.98E	31	3.8b		¶97xii2645
ISC	**XII**	**12 01 24 39**±1.1	**54.47N**±.067	**162.0E**±.12	**30**±8.4	**3.8b**	**22**	**0-85**
KRSC	XII	12 01 24 39.2	54.49N	162.02E	29	4.2b		¶97xii2677
NEIC	XII	12 01 24 40.2	54.71N	161.90E	33	4.3b		
EIDC	XII	12 01 24 41.5±1.00	54.7N	161.7E	30±5.7	3.6b		
NEIC		Poor solution.						
EIDC		Error ellipse is semi−major=38.0km semi−minor=22.1km azimuth=139						
ISC	**XII**	**12 04 22 28.1**±.66	**54.78N**±.074	**163.0E**±.12	**28**	**3.6b**	**18**	**1-82**
KRSC	XII	12 04 22 27.4	54.80N	163.03E	28	4.2b		¶97xii2692
EIDC	XII	12 04 22 34.5±1.44	54.1N	164.7E	33±6.5	3.5b		
EIDC		Error ellipse is semi−major=38.8km semi−minor=29.5km azimuth=142						
ISC	**XII**	**12 05 48 36.7**±.79	**54.28N**±.072	**162.8E**±.12	**23**	**3.5b**	**17**	**1-69**
KRSC	XII	12 05 48 35.0	54.28N	162.99E	23	3.9b		¶97xii2702
EIDC	XII	12 05 48 40.2±1.42	55.4N	163.1E	0	3.6b		
NEIC	XII	12 05 48 43.0	55.40N	162.97E	33			
EIDC		Error ellipse is semi−major=58.1km semi−minor=24.2km azimuth=165						
NEIC		Poor solution.						
ISC	**XII**	**12 08 32 45.4**±.69	**54.05N**±.068	**161.1E**±.16	**54**±7.0	**3.7b**	**23**	**1-81**
NEIC	XII	12 08 32 43.4	54.30N	160.90E	33	3.1b		¶97xii2718
KRSC	XII	12 08 32 45.7	54.04N	161.10E	37	4.1b		
EIDC	XII	12 08 32 52.5	54.2N	160.8E	100±112.9	3.4b		
NEIC		Less reliable solution.						
EIDC		Origin time error = 12.16Error ellipse is semi−major=30.3km semi−minor=17.5km azimuth=137LO CONF Depth						
ISC	**XII**	**12 10 11 09.6**±.54	**54.50N**±.058	**161.7E**±.12	**51**±5.8	**3.9b**	**30**	**0-85**
MOS	XII	12 10 11 08.0	54.8N	161.4E	32	4.5b		¶97xii2729
NEIC	XII	12 10 11 08.5	54.75N	161.37E	38	4.2b		
EIDC	XII	12 10 11 10.3±.62	54.6N	161.4E	38±5.4	3.7b,3.1s		
KRSC	XII	12 10 11 10.5	54.49N	161.61E	36	4.3b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=24.5km semi−minor=13.6km azimuth=130						
ISC	**XII**	**12 11 23 11.8**±.67	**54.41N**±.051	**162.31E**±.085	**39**±6.6	**4.4b,4.3s**	**61**	**0-86**
EIDC	XII	12 11 23 08.1±.60	54.4N	162.3E	0	4.4b,4.0s		¶97xii2739
KRSC	XII	12 11 23 08.3	54.33N	162.54E	9	4.7b		
BJI	XII	12 11 23 08.5	54.50N	162.30E	33	4.2b,4.7s		
MOS	XII	12 11 23 10.8	54.4N	162.4E	33	4.9b		
NEIC	XII	12 11 23 11.3	54.48N	162.33E	33	4.6b		
EIDC		Error ellipse is semi−major=21.4km semi−minor=12.1km azimuth=147						
ISC	**XII**	**12 16 47 26**±1.8	**54.45N**±.082	**162.1E**±.24	**31**±11	3.2b	**13**	**0-41**
KRSC	XII	12 16 47 26.5	54.51N	161.96E	31	4.0b		¶97xii2785
ISC	**XII**	**12 22 46 17.1**±.59	**54.44N**±.057	**161.8E**±.11	**49**±5.0	**3.9b,**3.3s	**49**	**0-85**
MOS	XII	12 22 46 14.4	54.5N	162.1E	27	4.8b		¶97xii2837
NEIC	XII	12 22 46 16.4	54.72N	161.51E	33	4.5b		
KRSC	XII	12 22 46 18.4	54.47N	161.56E	33	4.4b		
EIDC	XII	12 22 46 21.0±1.23	54.7N	161.6E	62±10.2	3.6b,3.4s		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=30.3km semi−minor=16.0km azimuth=149						
ISC	**XII**	**13 04 01 44**±2.0	**54.3N**±.12	**161.7E**±.45	**33**±30		**8**	**0-3**
KRSC	XII	13 04 01 44.6	54.38N	161.51E	32	3.7b		¶97xii2877
ISC	**XII**	**13 05 48 49.4**±.52	**55.14N**±.041	**161.90E**±.060	**55**±5.2	**4.7b,3.9s**	**152**	**1-145**
BJI	XII	13 05 48 45.4	55.98N	161.54E	14	4.6b,4.1s		¶97xii2894
MOS	XII	13 05 48 46.8	55.2N	162.1E	29	4.9b		
NEIC	XII	13 05 48 47.3	55.23N	161.95E	33	4.9b,4.1s		
KRSC	XII	13 05 48 47.8	55.05N	162.35E	28	5.1b		
EIDC	XII	13 05 48 49.2±.61	55.2N	162.0E	35±5.2	4.5b,3.8s		
EIDC		Error ellipse is semi−major=15.8km semi−minor=10.3km azimuth=141						
ISC	**XII**	**13 05 52 18.6**±.62	**55.08N**±.051	**162.1E**±.11	**50**±6.8	**4.2b**	**46**	**1-92**
MOS	XII	13 05 52 16.3	55.3N	161.7E	29	4.6b		¶97xii2896
NEIC	XII	13 05 52 16.9	55.26N	161.95E	33	4.4b		
KRSC	XII	13 05 52 18.3	55.02N	162.27E	37	4.6b		
EIDC	XII	13 05 52 18.4±.60	55.2N	162.0E	31±4.2	4.0b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=18.5km semi−minor=13.1km azimuth=133						
ISC	**XII**	**13 12 59 22**±1.1	**54.16N**±.081	**162.8E**±.15	**13**		**11**	**1-3**
KRSC	XII	13 12 59 22.4	54.23N	162.67E	13	3.9b		¶97xii2946
ISC	**XII**	**13 21 40 45**±1.2	**55.01N**±.070	**162.3E**±.26	**46**±21	3.1b	**12**	**1-41**
KRSC	XII	13 21 40 45.1	55.04N	162.05E	25	3.9b		¶97xii3026
ISC	**XII**	**14 04 02 44**±1.3	**54.30N**±.051	**162.48E**±.092	**22**±9.5	**4.3b**	**68**	**1-86**
KRSC	XII	14 04 02 44.0	54.29N	162.33E	10	4.6b		¶97xii3080
MOS	XII	14 04 02 45.4	54.4N	162.4E	35	4.8b		
NEIC	XII	14 04 02 45.7	54.39N	162.46E	33	4.6b		
EIDC	XII	14 04 02 46.3±.45	54.3N	162.3E	23±2.4	4.1b,4.6L		
EIDC		Error ellipse is semi−major=14.8km semi−minor=8.8km azimuth=142						
ISC	**XII**	**14 04 13 02**±1.9	**54.02N**±.090	**161.7E**±.16	**57**±18	**4.4b**	**41**	**1-118**
MOS	XII	14 04 12 58.7	53.9N	161.4E	33	4.8b		¶97xii3087
NEIC	XII	14 04 12 59.0	54.07N	161.62E	33	4.6b		
EIDC	XII	14 04 13 01.0±.47	53.9N	161.9E	40±3.2	4.2b,4.9L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=14.9km semi−minor=11.1km azimuth=131						
ISC	**XII**	**14 04 32 47**±3.8	**54.26N**±.097	**162.0E**±.53	**14**±15		**8**	**0-3**
KRSC	XII	14 04 32 42.7	54.23N	162.40E	0	3.8b		¶97xii3089
ISC	**XII**	**14 07 19 24**±1.1	**54.08N**±.075	**161.7E**±.20	**45**±11	**3.5b**	**20**	**0-74**
EIDC	XII	14 07 19 19.5±3.86	54.2N	161.5E	0	3.5b		¶97xii3109
KRSC	XII	14 07 19 22.1	54.09N	161.61E	9	3.9b		
NEIC	XII	14 07 19 23.1	54.38N	161.47E	33	4.2b		
MOS	XII	14 07 19 23.7	54.3N	161.7E	33	4.5b		
EIDC		Error ellipse is semi−major=99.5km semi−minor=32.1km azimuth=14						
NEIC		Poor solution.						
ISC	**XII**	**14 12 55 52**±1.6	**54.29N**±.058	**162.5E**±.11	**16**±12	**4.0b,3.8s**	**38**	**1-86**
KRSC	XII	14 12 55 50.9	54.24N	162.56E	6	4.6b		¶97xii3149
MOS	XII	14 12 55 54.2	54.3N	162.5E	33	4.6b		
NEIC	XII	14 12 55 54.7	54.45N	162.36E	33	4.5b		
EIDC	XII	14 12 55 55.8±.74	54.4N	162.3E	24±4.0	3.7b,3.9s		
EIDC		Error ellipse is semi−major=22.2km semi−minor=13.2km azimuth=150						
ISC	**XII**	**14 16 51 16.8**±.78	**54.72N**±.060	**162.2E**±.13	**44**±7.7	**3.8b**	**35**	**0-85**
KRSC	XII	14 16 51 13.3	54.64N	162.56E	11	4.3b		¶97xii3170
EIDC	XII	14 16 51 15.4±.81	54.8N	162.2E	18±5.6	3.7b		
MOS	XII	14 16 51 15.8	54.8N	162.5E	33	4.5b		
NEIC	XII	14 16 51 15.9	54.88N	162.16E	33	4.1b		
EIDC		Error ellipse is semi−major=23.9km semi−minor=15.4km azimuth=149						
NEIC		Less reliable solution.						
ISC	**XII**	**14 19 42 08**±1.0	**54.32N**±.069	**162.1E**±.18	**49**±9.6	**3.6b**	**24**	**0-74**
MOS	XII	14 19 41 57.7	54.5N	163.4E	30	4.8b		¶97xii3188
KRSC	XII	14 19 42 01.7	54.21N	162.45E	0	4.3b		
NEIC	XII	14 19 42 06.4	54.55N	162.03E	33	4.4b		
EIDC	XII	14 19 42 06.9±.93	54.6N	162.0E	21±3.9	3.5b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=28.7km semi−minor=15.2km azimuth=156						
ISC	**XII**	**15 01 49 08**±1.5	**54.77N**±.076	**162.4E**±.16	**24**±15		**12**	**0-3**
KRSC	XII	15 01 49 08.7	54.80N	162.22E	27	3.9b		¶97xii3226
KRSC	**XII**	**15 04 31 03.0**	**54.44N**	**161.79E**	**25**	**3.8b**		¶97xii3243
KRSC		Felt I=III at Kronoki						
ISC	**XII**	**15 19 23 31.7**±.85	**55.08N**±.068	**162.97E**±.096	**42**±9.2	**4.3b**	**45**	**1-85**
EIDC	XII	15 19 23 28.1±.74	55.0N	163.2E	0	4.3b,4.1L		¶97xii3331
KRSC	XII	15 19 23 30.2	54.99N	163.26E	44	4.6b		
MOS	XII	15 19 23 30.8	55.2N	162.8E	33	4.5b		
NEIC	XII	15 19 23 31.2	55.07N	163.16E	33	4.5b		
EIDC		Error ellipse is semi−major=31.8km semi−minor=13.3km azimuth=144						
ISC	**XII**	**16 09 41 52.1**±.79	**54.83N**±.063	**162.4E**±.14	**34**±9.7	**3.7b**	**20**	**0-85**
EIDC	XII	16 09 41 48.8±.95	55.0N	162.1E	0	3.7b		¶97xii3429
MOS	XII	16 09 41 51.9	54.8N	162.4E	33	4.5b		
NEIC	XII	16 09 41 52.2	55.05N	162.15E	33	3.3b		
KRSC	XII	16 09 41 52.8	54.86N	162.22E	34	4.1b		
EIDC		Error ellipse is semi−major=45.4km semi−minor=20.1km azimuth=122						
NEIC		Poor solution.						
ISC	**XII**	**16 14 49 56**±1.8	**54.68N**±.080	**162.2E**±.31	**34**±24		**12**	**0-3**
KRSC	XII	16 14 49 56.1	54.73N	162.08E	31	3.8b		¶97xii3468
ISC	**XII**	**16 15 37 15.2**±.48	**54.55N**±.048	**161.62E**±.091	**52**±4.7	**4.3b**	**59**	**0-85**
MOS	XII	16 15 37 13.3	54.7N	161.6E	31	4.8b		¶97xii3472
NEIC	XII	16 15 37 13.5	54.73N	161.56E	33	4.6b		
EIDC	XII	16 15 37 15.3±.59	54.6N	161.4E	39±4.8	4.0b		
KRSC	XII	16 15 37 16.0	54.53N	161.61E	38	4.5b		
EIDC		Error ellipse is semi−major=21.2km semi−minor=14.5km azimuth=117						
KRSC		Felt I=V Kronoki						
ISC	**XII**	**16 16 17 15.9**±.86	**54.08N**±.073	**161.2E**±.22	**66**±6.3	**4.0b**	**25**	**1-86**
NEIC	XII	16 16 17 13.3	54.45N	161.30E	33	4.1b		¶97xii3475
MOS	XII	16 16 17 15.1	54.4N	160.7E	33	4.5b		
KRSC	XII	16 16 17 16.8	54.09N	161.15E	40	4.3b		
EIDC	XII	16 16 18 00.1±6.04	54.4N	158.8E	438±73.9	3.3b		
NEIC		Poor solution.						
EIDC		Error ellipse is semi−major=32.8km semi−minor=22.3km azimuth=125						
ISC	**XII**	**17 00 58 05**±1.8	**53.4N**±.13	**160.9E**±.31	**33**		**12**	**1-3**
KRSC	XII	17 00 58 04.1	53.42N	160.85E	33	3.8b		¶97xii3531
ISC	**XII**	**17 03 02 11**±4.3	**54.3N**±.10	**161.9E**±.78	**13**±19		**8**	**0-3**
KRSC	XII	17 03 02 10.0	54.30N	162.03E	17	3.8b		¶97xii3542
ISC	**XII**	**17 06 41 10.7**±.61	**54.84N**±.052	**162.29E**±.088	**47**±6.7	**4.4b**	**61**	**0-85**
KRSC	XII	17 06 41 07.3	54.77N	162.65E	13	4.8b		¶97xii3565
NEIC	XII	17 06 41 09.6	54.95N	162.36E	33	4.7b		

MOS XII 17 06 41 10.0 54.7N 162.6E 33 4.8b
EIDC XII 17 06 41 11.4±.61 54.9N 162.3E 35±3.5 4.2b,4.8L
EIDC Error ellipse is semi−major=18.5km semi−minor=13.3km azimuth=153
ISC XII 17 07 13 44.8±.61 **54.58N**±.061 **162.0E**±.12 **42**±7.4 **4.1b** **28 0-85**
MOS XII 17 07 13 44.5 54.6N 162.0E 33 4.7b **¶97xii3570**
KRSC XII 17 07 13 44.8 54.56N 161.95E 32 4.5b
NEIC XII 17 07 13 45.1 54.96N 161.77E 33 4.5b
EIDC XII 17 07 13 46.7±1.07 54.9N 161.7E 31±4.7 3.9b,4.6L
KRSC Felt I=IV Kronoki
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=28.0km semi−minor=17.5km azimuth=171
ISC XII 18 10 01 36.9±.74 **54.26N**±.068 **161.3E**±.18 **56**±6.5 **3.9b** **23 0-81**
NEIC XII 18 10 01 34.4 54.49N 161.07E 33 **¶97xii3745**
EIDC XII 18 10 01 36.7±.79 54.4N 161.1E 35±7.2 3.7b,4.2L
KRSC XII 18 10 01 37.0 54.22N 161.31E 34 4.2b
NEIC Single network solution.
EIDC Error ellipse is semi−major=28.8km semi−minor=16.4km azimuth=128
ISC XII 18 13 51 48±1.6 **54.66N**±.079 **161.8E**±.29 **49**±18 **11 0-3**
KRSC XII 18 13 51 48.3 54.71N 161.77E 39 3.8b **¶97xii3774**
ISC XII 18 19 48 03.6±.58 **54.57N**±.056 **161.9E**±.11 **45**±6.2 **3.8b** **34 0-82**
NEIC XII 18 19 48 02.6 54.76N 161.66E 33 4.0b **¶97xii3813**
KRSC XII 18 19 48 02.9 54.52N 162.03E 29 4.3b
EIDC XII 18 19 48 05.1±1.19 54.7N 161.7E 38±10.4 3.6b,4.0L
EIDC Error ellipse is semi−major=23.9km semi−minor=15.1km azimuth=141
ISC XII 19 00 42 01.3±.56 **52.18N**±.053 **158.57E**±.074 **72**±4.4 **4.5b** **103 0-145**
MOS XII 19 00 41 51.8 51.8N 158.9E 33 4.8b **¶97xii3864**
BJI XII 19 00 41 55.8 52.30N 158.50E 24 4.3b
NEIC XII 19 00 41 55.8 52.26N 158.57E 24 4.9b
EIDC XII 19 00 41 57.6±.49 52.3N 158.6E 24±3.0 4.3b,3.5s
KRSC XII 19 00 42 01.7 52.12N 158.84E 42 5.0b
EIDC Error ellipse is semi−major=14.7km semi−minor=10.1km azimuth=139
KRSC Felt I=II−III Petropavlovsk, IV Gorodok PVO (M. Siamo), IV GMS Vodopadnaya, V Mayak Kruglyy
ISC XII 19 10 05 40±1.5 **54.43N**±.077 **162.2E**±.16 **25**±13 **12 0-3**
KRSC XII 19 10 05 41.1 54.49N 162.04E 30 4.0b **¶97xii3930**
ISC XII 19 13 57 04±3.4 **54.31N**±.094 **162.9E**±.45 **14** **11 1-3**
KRSC XII 19 13 57 03.9 54.35N 162.86E 14 3.8b **¶97xii3974**
ISC XII 20 00 40 00.1±.69 **56.15N**±.049 **164.00E**±.058 **39**±6.9 **4.7b,4.2s** **133 1-146**
EIDC XII 20 00 39 56.4±.53 56.2N 164.1E 0 4.5b,3.6s **¶97xii4057**
KRSC XII 20 00 39 57.8 56.17N 164.22E 23 4.7b
BJI XII 20 00 39 57.9 56.42N 163.21E 6 5.0b,4.7s
NEIC XII 20 00 39 59.5 56.21N 164.08E 33 4.8b
MOS XII 20 00 40 00.2 56.2N 164.0E 37 5.1b,4.4s
EIDC Error ellipse is semi−major=16.0km semi−minor=10.7km azimuth=157
ISC XII 20 21 50 55.4±.73 **54.92N**±.060 **162.1E**±.15 **49**±8.6 **3.9b** **29 0-82**
KRSC XII 20 21 50 53.7 54.88N 162.35E 21 4.2b **¶97xii4176**
NEIC XII 20 21 50 53.9 55.21N 161.83E 33 4.0b
EIDC XII 20 21 50 56.6±1.25 55.1N 161.9E 40±9.5 3.7b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=27.1km semi−minor=18.6km azimuth=143
ISC XII 22 10 52 23±2.4 **54.3N**±.10 **161.8E**±.24 **9**±14 3.1b **11 0-42**
KRSC XII 22 10 52 19.5 54.26N 162.19E 5 3.8b **¶97xii4408**
KRSC Felt I=III Kronoki
ISC XII 23 00 33 44±5.0 **54.0N**±.13 **162.0E**±.65 **7**±19 **9 1-3**
KRSC XII 23 00 33 40.7 54.05N 162.26E 0 3.9b **¶97xii4508**
ISC XII 23 14 35 18.6±.52 **54.49N**±.051 **161.6E**±.10 **49**±5.0 **4.0b** **46 0-85**
NEIC XII 23 14 35 17.1 54.64N 161.48E 33 4.4b **¶97xii4617**
MOS XII 23 14 35 17.4 54.6N 161.5E 31 4.6b
KRSC XII 23 14 35 19.1 54.44N 161.67E 32 4.3b
EIDC XII 23 14 35 19.5±.76 54.6N 161.5E 36±5.4 3.8b,4.2L
NEIC Less reliable solution.
KRSC Felt I=IV Kronoki
EIDC Error ellipse is semi−major=18.8km semi−minor=13.6km azimuth=143
ISC XII 23 15 59 34.7±.68 **54.68N**±.062 **161.7E**±.16 **55**±6.6 **3.7b** **24 0-82**
NEIC XII 23 15 59 32.8 54.83N 161.63E 33 4.2b **¶97xii4625**
KRSC XII 23 15 59 35.6 54.70N 161.63E 37 3.8b
EIDC XII 23 15 59 43.4±5.13 54.8N 161.7E 112±44.3 3.3b
NEIC Poor solution.
KRSC Felt I=III Kronoki
EIDC Error ellipse is semi−major=30.8km semi−minor=24.5km azimuth=7
ISC XII 23 23 22 44.0±.69 **54.03N**±.068 **161.0E**±.17 **61**±6.1 **3.9b** **24 1-81**
EIDC XII 23 23 22 39.3±.92 54.3N 160.7E 0 3.8b **¶97xii4668**
NEIC XII 23 23 22 42.1 54.35N 160.77E 33 3.8b
KRSC XII 23 23 22 44.6 53.99N 160.98E 33 4.0b
EIDC Error ellipse is semi−major=26.6km semi−minor=18.2km azimuth=137
NEIC Less reliable solution.
ISC XII 24 18 30 02±1.6 **54.58N**±.072 **161.5E**±.14 **44**±14 **4.1b**,3.2s **57 2-88**
EIDC XII 24 18 29 57.1±.59 54.6N 161.5E 0 4.1b,3.2s **¶97xii4802**
NEIC XII 24 18 30 00.4 54.58N 161.53E 33 4.5b
MOS XII 24 18 30 01.4 54.6N 161.5E 39 4.8b
EIDC Error ellipse is semi−major=17.4km semi−minor=12.1km azimuth=132
ISC XII 25 23 47 12±1.0 **54.2N**±.19 **162.0E**±.24 **33** **3.7b** **12 24-86**
EIDC XII 25 23 47 08.2±1.19 54.1N 162.0E 0 3.8b **¶97xii5009**
NEIC XII 25 23 47 11.6 54.25N 161.97E 33
EIDC Error ellipse is semi−major=36.4km semi−minor=18.5km azimuth=149
NEIC Poor solution.
ISC XII 27 07 37 17±1.1 **53.0N**±.12 **160.2E**±.18 **44**±9.4 **3.5b** **17 0-71**
EIDC XII 27 07 37 13.5±4.47 53.2N 159.8E 0 3.6b **¶97xii5267**
KRSC XII 27 07 37 18.2 53.03N 160.16E 28 3.9b
EIDC Error ellipse is semi−major=110.4km semi−minor=36.1km azimuth=13
ISC XII 27 15 44 26±1.7 **54.43N**±.075 **162.9E**±.13 **20**±13 **3.6b** **22 1-69**
EIDC XII 27 15 44 25.1±1.15 54.7N 162.5E 0 3.7b **¶97xii5312**
KRSC XII 27 15 44 26.1 54.45N 162.86E 20 4.1b
NEIC XII 27 15 44 28.0 54.76N 162.49E 33
EIDC Error ellipse is semi−major=40.9km semi−minor=19.7km azimuth=150
NEIC Poor solution.
ISC XII 28 23 00 03±1.1 **53.6N**±.25 **160.9E**±.29 **33** **3.5b** **6 27-80**
EIDC XII 28 22 59 59.9±1.26 53.5N 160.9E 0 3.7b **¶97xii5508**
EIDC Error ellipse is semi−major=41.4km semi−minor=25.1km azimuth=162
ISC XII 29 05 40 57.6±.71 **54.29N**±.076 **162.8E**±.11 **12** **3.9b** **19 1-69**
KRSC XII 29 05 40 58.3 54.28N 162.70E 12 3.9b **¶97xii5550**
NEIC XII 29 05 41 02.1 54.86N 162.35E 33
EIDC XII 29 05 41 03.6±3.96 54.8N 162.4E 27±8.8 3.6b
NEIC Poor solution.
EIDC Error ellipse is semi−major=115.0km semi−minor=29.7km azimuth=19
ISC XII 29 05 49 42±2.9 **54.23N**±.079 **162.6E**±.40 **8** **9 1-3**
KRSC XII 29 05 49 40.8 54.28N 162.63E 8 3.7b **¶97xii5552**
KRSC XII 29 09 11 55.3 **54.48N** **161.61E** **23** **3.6b** **¶97xii5566**
KRSC Felt I=III at Kronoki
KRSC XII 29 16 46 18.4 **54.65N** **161.77E** **38** **3.9b** **¶97xii5614**
KRSC Felt I=III at Kronoki
ISC XII 30 04 00 59±1.3 **54.66N**±.087 **161.9E**±.32 **59**±9.7 **3.8b** **13 0-69**
EIDC XII 30 04 00 57.3 55.3N 162.0E 0 3.6b **¶97xii5679**
KRSC XII 30 04 00 59.5 54.66N 161.85E 41 3.7b
EIDC Origin time error = 24.06Error ellipse is semi−major=743.7km semi−minor=43.1km azimuth=27
KRSC Felt I=II Kronoki
ISC XII 30 07 26 19±2.6 **54.34N**±.087 **161.8E**±.42 **21**±13 **12 0-3**
KRSC XII 30 07 26 17.4 54.34N 161.97E 18 3.7b **¶97xii5700**
ISC XII 31 01 25 06±1.1 **54.46N**±.076 **161.9E**±.21 **45**±11 **3.5b**,3.6s **18 0-69**
EIDC XII 31 01 25 01.4±4.03 54.5N 161.7E 0 3.6b,3.6s **¶97xii5818**
KRSC XII 31 01 25 04.8 54.42N 162.01E 23 3.9b
EIDC Error ellipse is semi−major=93.9km semi−minor=29.5km azimuth=12
KRSC Felt I=III Kronoki
ISC XII 31 06 41 24±1.0 **54.39N**±.071 **161.5E**±.21 **41** **13 0-4**
KRSC XII 31 06 41 22.8 54.37N 161.63E 41 4.0b **¶97xii5847**
ISC XII 31 23 47 34±2.5 **54.3N**±.12 **161.7E**±.42 **21**±16 **7 0-2**
KRSC XII 31 23 47 33.1 54.36N 161.90E 20 3.8b **¶97xii6004**

(219) Off east coast of Kamchatka.

ISC VIII 08 09 59 03±1.8 **53.9N**±.10 **161.1E**±.36 **16**±19 **12 1-4**
KRSC VIII 08 09 59 03.0 53.87N 161.14E 20 4.2b **¶97viii1089**
ISC VIII 11 21 43 06±2.2 **51.5N**±.13 **161.0E**±.21 **40**±20 **3.7b** **19 2-79**
EIDC VIII 11 21 43 02.3 51.4N 160.8E 0 3.8b **¶97viii1632**
KRSC VIII 11 21 43 05.4 51.44N 161.11E 40 3.9b
NEIC VIII 11 21 43 05.5 51.53N 160.87E 33
NEIC Single network solution.
ISC VIII 25 13 49 16±2.6 **53.9N**±.10 **161.4E**±.36 **26**±20 **11 1-24**
KRSC VIII 25 13 49 16.1 53.94N 161.35E 23 4.0b **¶97viii3697**
ISC VIII 26 02 53 37.2±.49 **52.96N**±.041 **159.86E**±.059 **59**±4.0 **4.9b,4.2s** **249 0-144**
EIDC VIII 26 02 53 30.9 53.1N 159.7E 0 4.5b,4.6L **¶97viii3774**
BJI VIII 26 02 53 33.0 53.20N 160.06E 42 4.9b,4.4s
NEIC VIII 26 02 53 34.2 53.00N 159.88E 33 5.1b
MOS VIII 26 02 53 35.7 53.1N 159.9E 41 5.3b
KRSC VIII 26 02 53 37.1 52.95N 160.07E 42 4.9b
MOS Felt I=II−III MSK at Petropavlovsk−Kamchatskii.
ISC IX 04 04 36 25±9.0 **52.5N**±.51 **160.3E**±.61 **25**±40 **5 1-2**
KRSC IX 04 04 36 26.0 52.64N 160.20E 26 3.8b **¶97ix0545**
ISC Poorly determined
ISC IX 11 08 24 03±3.9 **51.4N**±.23 **159.7E**±.45 **42** **7 1-2**
KRSC IX 11 08 24 01.9 51.36N 159.75E 42 3.8b **¶97ix1650**
ISC IX 15 06 56 13.4±.77 **53.00N**±.087 **162.6E**±.12 **40** **3.6b** **16 1-80**
EIDC IX 15 06 56 09.8 52.8N 162.9E 0 3.6b **¶97ix2208**
KRSC IX 15 06 56 11.8 52.95N 162.79E 40 4.1b
ISC IX 21 07 45 36.3±.60 **52.68N**±.056 **159.40E**±.094 **66**±4.6 **4.1b** **76 1-144**
KRSC IX 21 07 45 34.5 52.56N 159.68E 25 4.9b **¶97ix3062**
MOS IX 21 07 45 35.5 52.7N 159.5E 57 4.8b,4.1s
NEIC IX 21 07 45 36.4 52.75N 159.42E 67 4.4b
EIDC IX 21 07 45 37.6 52.7N 159.5E 63 3.9b
ISC IX 25 03 37 13±1.2 **52.69N**±.083 **160.7E**±.16 **36**±9.8 **3.9b** **24 1-80**
KRSC IX 25 03 37 12.2 52.67N 160.40E 7 4.2b **¶97ix3672**
EIDC IX 25 03 37 41.3 52.8N 159.4E 266 3.3b
ISC IX 26 16 12 50±4.3 **52.8N**±.20 **160.7E**±.43 **30**±19 **9 0-4**
KRSC IX 26 16 12 45.7 52.70N 160.98E 8 3.9b **¶97ix4071**
ISC X 05 13 05 17±1.4 **52.14N**±.099 **159.6E**±.22 **56**±8.8 **3.8b** **25 1-124**
KRSC X 05 13 05 16.1 52.17N 159.61E 13 4.0b **¶97x0867**
NEIC X 05 13 05 37.2 52.35N 157.54E 200
EIDC X 05 13 05 46.3 52.2N 158.0E 284 3.2b
NEIC Less reliable solution.
ISC X 07 11 50 46±1.0 **52.81N**±.073 **160.9E**±.12 **46**±8.8 **3.9b**,3.5s **35 1-86**
KRSC X 07 11 50 41.0 52.68N 161.29E 17 4.5b **¶97x1241**
NEIC X 07 11 50 44.6 52.89N 160.99E 33 4.7b
MOS X 07 11 50 44.7 52.8N 161.0E 33 4.8b
EIDC X 07 11 50 45.9 52.8N 160.9E 30 3.8b,3.6s
ISC X 07 15 21 19±1.9 **52.7N**±.11 **161.2E**±.23 **39**±16 **3.8b** **27 1-140**
KRSC X 07 15 21 17.8 52.78N 161.07E 8 4.2b **¶97x1273**
NEIC X 07 15 21 31.9 52.72N 161.48E 157
EIDC X 07 15 21 34.2 52.6N 161.4E 159 3.4b
NEIC Less reliable solution.
KRSC X 07 15 21 54.4 **52.56N** **160.89E** **9** **4.0b** **¶97x1274**
ISC X 17 09 57 43.5±.75 **55.58N**±.061 **163.2E**±.11 **48**±8.0 **3.8b** **26 1-83**
EIDC X 17 09 57 39.0 55.6N 163.1E 0 3.9b **¶97x2958**
NEIC X 17 09 57 42.3 55.78N 163.02E 33
KRSC X 17 09 57 43.5 55.57N 163.25E 40 4.3b
NEIC Less reliable solution.
ISC X 21 14 08 49±2.4 **55.8N**±.13 **163.1E**±.17 **19**±35 **8 1-4**
KRSC X 21 14 08 47.6 55.84N 163.20E 17 3.8b **¶97x3659**
ISC X 27 02 44 09±1.2 **55.7N**±.16 **163.9E**±.18 **20** **7 1-4**
KRSC X 27 02 44 08.5 55.83N 163.88E 20 3.7b **¶97x4558**
ISC X 30 13 31 33.9±.67 **52.59N**±.064 **159.6E**±.10 **58**±5.0 **4.2b**,3.5s **50 1-87**
MOS X 30 13 31 31.2 52.5N 159.7E 33 4.8b **¶97x5046**
NEIC X 30 13 31 31.4 52.69N 159.51E 33 4.5b
KRSC X 30 13 31 33.5 52.56N 159.67E 30 4.5b
EIDC X 30 13 31 36.1 52.7N 159.5E 57 3.8b,4.6L
ISC X 30 15 15 02±1.2 **52.51N**±.093 **159.8E**±.15 **13** **11 1-5**
KRSC X 30 15 15 02.7 52.60N 159.57E 13 3.8b **¶97x5059**
ISC XI 02 23 10 12.5±.98 **53.2N**±.11 **163.0E**±.13 **40** **3.7b** **13 2-69**
EIDC XI 02 23 10 11.1 53.3N 163.6E 0 3.7b **¶97xi0354**
KRSC XI 02 23 10 11.7 53.21N 163.21E 40 4.0b
ISC XI 09 18 01 53±4.2 **52.2N**±.16 **159.7E**±.24 **4**±25 **8 1-4**
KRSC XI 09 18 01 55.6 52.45N 159.53E 6 3.8b **¶97xi1485**
ISC XI 16 13 46 08±1.7 **51.3N**±.12 **159.3E**±.19 **40**±11 **4.1b**,3.0s **23 1-78**
KRSC XI 16 13 46 03.1 51.04N 159.94E 42 4.1b **¶97xi2654**
EIDC XI 16 13 46 05.3 51.4N 159.1E 0 4.0b,3.0s
MOS XI 16 13 46 06.9 51.2N 159.5E 33 4.2b
NEIC XI 16 13 46 08.2 51.38N 159.00E 33 4.3b
NEIC Less reliable solution.
ISC XII 03 13 34 24±4.2 **55.01N**±.070 **163.1E**±.19 **6**±27 **3.7b** **19 1-82**
EIDC XII 03 13 34 24.3±.82 55.1N 163.0E 0 3.7b **¶97xii0428**
KRSC XII 03 13 34 26.0 55.04N 162.88E 16 4.2b
NEIC XII 03 13 34 27.1 55.31N 162.74E 33
EIDC Error ellipse is semi−major=29.3km semi−minor=19.1km azimuth=145
NEIC Poor solution.
ISC XII 03 16 21 25±2.6 **55.02N**±.083 **163.0E**±.40 **6** **10 1-4**
KRSC XII 03 16 21 25.5 55.06N 162.93E 6 3.9b **¶97xii0459**
ISC XII 04 01 12 36±3.3 **54.9N**±.10 **163.5E**±.47 **11** **10 1-3**
KRSC XII 04 01 12 39.2 55.00N 163.05E 11 3.9b **¶97xii0527**
ISC XII 04 01 52 00.1±.91 **54.98N**±.068 **163.0E**±.14 **10** **12 1-4**
KRSC XII 04 01 52 00.3 55.01N 162.98E 10 4.0b **¶97xii0531**

Agency		Origin Time			φ	λ	h	Mag	n	Δ-Rng
	mo	d	h	m s	°	°	km			°
ISC	**XII**	**04**	**02**	**32 52.5**±.95	**54.96N**±.080	**163.1E**±.14	**28**		**10**	**1-3**
KRSC	XII	04	02	32 53.0	54.99N	163.00E	28	3.9b	**¶97xii0540**	
ISC	**XII**	**04**	**02**	**59 30**±2.8	**54.9N**±.10	**163.1E**±.42	**14**		**9**	**1-3**
KRSC	XII	04	02	59 30.5	55.00N	162.99E	14	3.9b	**¶97xii0544**	
ISC	**XII**	**04**	**06**	**22 54**±2.5	**55.01N**±.083	**163.1E**±.38	**13**		**11**	**1-4**
KRSC	XII	04	06	22 54.0	54.99N	162.99E	13	3.9b	**¶97xii0564**	
ISC	**XII**	**04**	**09**	**21 06**±2.4	**54.99N**±.081	**163.1E**±.37	**12**		**11**	**1-4**
KRSC	XII	04	09	21 06.7	55.00N	163.06E	12	3.8b	**¶97xii0587**	
ISC	**XII**	**04**	**15**	**40 42**±1.7	**55.04N**±.076	**163.0E**±.27	**33**±16	**3.7b**	**17**	**1-82**
EIDC	XII	04	15	40 38.8±1.30	55.2N	162.9E	0	3.7b	**¶97xii0638**	
KRSC	XII	04	15	40 39.7	55.03N	162.94E	7	4.0b		
NEIC	XII	04	15	40 41.9	55.30N	162.68E	33	4.2b		
EIDC	Error ellipse is semi−major=52.3km semi−minor=25.6km azimuth=126									
NEIC	Poor solution.									
ISC	**XII**	**04**	**16**	**47 35**±2.8	**54.99N**±.083	**163.2E**±.41	**7**		**11**	**1-4**
KRSC	XII	04	16	47 37.2	55.02N	162.90E	7	3.8b	**¶97xii0653**	
ISC	**XII**	**04**	**20**	**14 50**±6.8	**54.99N**±.091	**163.2E**±.50	**5**±55		**10**	**1-4**
KRSC	XII	04	20	14 52.5	55.00N	162.98E	14	3.9b	**¶97xii0685**	
ISC	**XII**	**04**	**23**	**42 34**±3.0	**54.96N**±.098	**163.2E**±.47	**21**		**10**	**1-4**
KRSC	XII	04	23	42 35.1	54.99N	163.02E	21	3.7b	**¶97xii0723**	
ISC	**XII**	**05**	**00**	**11 45**±3.0	**55.0N**±.11	**163.2E**±.45	**12**		**9**	**1-4**
KRSC	XII	05	00	11 46.2	55.03N	162.97E	12	4.1b	**¶97xii0730**	
ISC	**XII**	**05**	**00**	**32 28**±5.0	**55.0N**±.13	**163.1E**±.66	**19**±27		**9**	**1-4**
KRSC	XII	05	00	32 29.4	55.04N	162.96E	18	4.0b	**¶97xii0740**	
ISC	**XII**	**05**	**01**	**04 59.3**±.94	**55.02N**±.093	**163.0E**±.17	**8**	**3.9b**	**14**	**1-68**
KRSC	XII	05	01	04 59.1	55.06N	162.99E	8	4.2b	**¶97xii0750**	
EIDC	XII	05	01	04 59.3±1.41	55.5N	162.4E	0	3.8b		
EIDC	Error ellipse is semi−major=52.4km semi−minor=27.3km azimuth=146									
ISC	**XII**	**05**	**01**	**41 22**±1.1	**55.0N**±.13	**163.0E**±.16	**8**		**9**	**1-4**
KRSC	XII	05	01	41 21.9	55.00N	162.97E	8	3.8b	**¶97xii0758**	
ISC	**XII**	**05**	**02**	**17 19**±2.7	**55.02N**±.087	**163.1E**±.44	**13**		**11**	**1-4**
KRSC	XII	05	02	17 19.6	55.04N	162.98E	13	3.9b	**¶97xii0764**	
ISC	**XII**	**05**	**02**	**26 30**±1.8	**55.07N**±.075	**163.0E**±.14	**17**±16	**3.5b**	**16**	**1-82**
EIDC	XII	05	02	26 28.2±1.06	55.5N	162.4E	0	3.6b	**¶97xii0765**	
KRSC	XII	05	02	26 30.7	55.05N	162.94E	19	4.0b		
EIDC	Error ellipse is semi−major=37.9km semi−minor=24.4km azimuth=133									
ISC	**XII**	**05**	**04**	**21 57**±1.0	**55.0N**±.12	**163.0E**±.16	**22**		**9**	**1-4**
KRSC	XII	05	04	21 57.8	55.00N	162.89E	22	3.9b	**¶97xii0775**	
ISC	**XII**	**05**	**04**	**44 08**±2.8	**55.09N**±.086	**163.1E**±.45	**10**		**11**	**1-4**
KRSC	XII	05	04	44 08.8	55.08N	162.99E	10	3.8b	**¶97xii0779**	
ISC	**XII**	**05**	**08**	**34 18.2**±.91	**55.06N**±.077	**163.0E**±.15	**25**		**10**	**1-4**
KRSC	XII	05	08	34 18.8	55.06N	162.94E	25	3.8b	**¶97xii0813**	
ISC	**XII**	**05**	**09**	**01 36**±2.6	**55.06N**±.078	**163.1E**±.40	**14**		**12**	**1-4**
KRSC	XII	05	09	01 36.6	55.07N	162.97E	14	3.7b	**¶97xii0817**	
ISC	**XII**	**05**	**09**	**35 41**±3.5	**55.06N**±.068	**163.1E**±.13	**6**±24	**3.8b**	**17**	**1-82**
EIDC	XII	05	09	35 41.3±1.09	55.3N	162.6E	0	3.8b	**¶97xii0822**	
KRSC	XII	05	09	35 43.3	55.08N	162.95E	18	4.0b		
EIDC	Error ellipse is semi−major=48.8km semi−minor=23.6km azimuth=137									
ISC	**XII**	**05**	**10**	**09 33.9**±.62	**55.11N**±.065	**163.0E**±.11	**17**	**3.6b**	**16**	**1-68**
EIDC	XII	05	10	09 32.3±4.09	55.2N	162.6E	0	3.6b	**¶97xii0828**	
KRSC	XII	05	10	09 34.5	55.09N	162.88E	17	4.1b		
EIDC	Error ellipse is semi−major=94.9km semi−minor=42.9km azimuth=13									
ISC	**XII**	**05**	**11**	**35 21.0**±.86	**53.89N**±.048	**161.56E**±.073	**44**±8.1	**5.6b**	**216**	**1-145**
NEIC	XII	05	11	35 19.5	53.91N	161.55E	33	5.7b	**¶97xii0834**	
MOS	XII	05	11	35 20.0	53.9N	161.6E	33	6.1b		
EIDC	XII	05	11	35 23.1±.41	53.9N	161.4E	45±3.6	5.0b		
KRSC	XII	05	11	35 24.1	53.86N	161.19E	32	5.9b		
EIDC	Error ellipse is semi−major=14.1km semi−minor=9.0km azimuth=143									
ISC	**XII**	**05**	**11**	**40 21**±1.1	**53.86N**±.085	**161.5E**±.19	**44**±8.3	**4.5b**	**41**	**1-81**
EIDC	XII	05	11	40 16.9±.74	53.9N	161.6E	0	4.6b	**¶97xii0837**	
KRSC	XII	05	11	40 18.7	53.68N	161.83E	19	4.8b		
MOS	XII	05	11	40 19.6	53.9N	161.5E	33	5.1b		
NEIC	XII	05	11	40 20.0	53.98N	161.56E	33	4.9b		
EIDC	Error ellipse is semi−major=24.2km semi−minor=14.5km azimuth=130									
ISC	**XII**	**05**	**11**	**42 52**±1.8	**53.80N**±.043	**161.35E**±.064	**24**±13	**5.2b**	**224**	**1-143**
EIDC	XII	05	11	42 49.4±.51	53.9N	161.3E	0	5.1b	**¶97xii0840**	
KRSC	XII	05	11	42 51.1	53.54N	161.80E	37	5.3b		
BJI	XII	05	11	42 52.3	53.86N	161.33E	33	5.2b		
MOS	XII	05	11	42 52.8	53.8N	161.5E	33	5.5b		
NEIC	XII	05	11	42 52.9	53.79N	161.34E	33	5.4b		
EIDC	Error ellipse is semi−major=16.7km semi−minor=10.9km azimuth=149									
ISC	**XII**	**05**	**11**	**52 17**±1.4	**54.0N**±.14	**161.5E**±.56	**33**	**4.7b**	**17**	**24-81**
EIDC	XII	05	11	52 13.6±1.66	53.9N	161.7E	0	4.7b	**¶97xii0844**	
MOS	XII	05	11	52 17.0	53.9N	161.6E	33	5.1b		
NEIC	XII	05	11	52 17.4	54.01N	161.41E	33	4.9b		
EIDC	Error ellipse is semi−major=61.6km semi−minor=19.1km azimuth=103									
NEIC	Less reliable solution.									
ISC	**XII**	**05**	**11**	**55 47.5**±.88	**53.84N**±.050	**161.36E**±.067	**35**±8.3	**5.0b**	**158**	**1-145**
BJI	XII	05	11	55 46.0	54.40N	161.37E	36	5.0b	**¶97xii0846**	
MOS	XII	05	11	55 47.0	53.8N	161.5E	33	5.0b		
NEIC	XII	05	11	55 47.1	53.87N	161.38E	33	5.1b		
EIDC	XII	05	11	55 48.8±.56	53.9N	161.3E	35±3.3	4.7b,5.3L		
KRSC	XII	05	11	55 52.5	53.59N	160.65E	3	4.8b		
EIDC	Error ellipse is semi−major=14.2km semi−minor=9.6km azimuth=161									
ISC	**XII**	**05**	**11**	**59 40**±1.8	**53.9N**±.28	**161.7E**±.30	**0**	**4.1b**	**9**	**1-81**
KRSC	XII	05	11	59 45.5	53.61N	161.22E	0	4.3b	**¶97xii0849**	
EIDC	XII	05	12	00 40.1±1.07	45.5N	152.0E	0	4.2b		
EIDC	Error ellipse is semi−major=34.4km semi−minor=26.1km azimuth=93									
ISC	**XII**	**05**	**12**	**03 13**±1.4	**53.3N**±.13	**161.6E**±.22	**5**	**4.2b**	**18**	**1-80**
EIDC	XII	05	12	03 05.9±.95	55.8N	158.4E	0	4.1b	**¶97xii0850**	
KRSC	XII	05	12	03 17.9	53.62N	160.87E	5	4.2b		
EIDC	Error ellipse is semi−major=33.0km semi−minor=19.6km azimuth=108									
ISC	**XII**	**05**	**12**	**03 53**±5.6	**53.8N**±.57	**161.5E**±.70	**0**		**5**	**1-24**
KRSC	XII	05	12	03 59.9	53.64N	160.52E	0	4.1b	**¶97xii0851**	
ISC	**XII**	**05**	**12**	**22 36.4**±.72	**53.87N**±.046	**161.38E**±.065	**43**±6.5	**4.8b**,6.7s	**153**	**1-145**
BJI	XII	05	12	22 33.6	54.12N	161.43E	35	4.8b	**¶97xii0861**	
KRSC	XII	05	12	22 35.0	53.73N	161.34E	9	5.1b		
NEIC	XII	05	12	22 35.3	53.93N	161.38E	33	5.0b		
MOS	XII	05	12	22 35.5	53.9N	161.4E	33	5.3b		
EIDC	XII	05	12	22 38.3±.37	53.9N	161.4E	44±3.2	4.4b		
EIDC	Error ellipse is semi−major=12.8km semi−minor=8.1km azimuth=142									
ISC	**XII**	**05**	**12**	**31 09**±2.9	**53.9N**±.17	**161.3E**±.62	**53**±19	3.5b	**9**	**1-77**
KRSC	XII	05	12	31 03.5	53.66N	161.85E	9	4.0b	**¶97xii0864**	
EIDC	XII	05	12	32 22.4±1.37	43.0N	148.6E	0	3.6b		
EIDC	Error ellipse is semi−major=67.2km semi−minor=33.2km azimuth=146									
ISC	**XII**	**05**	**12**	**34 28.3**±.72	**53.88N**±.050	**161.49E**±.070	**37**±6.8	**4.6b**	**93**	**1-143**
BJI	XII	05	12	34 27.3	54.30N	160.71E	11	4.6b	**¶97xii0865**	
NEIC	XII	05	12	34 27.9	53.96N	161.49E	33	4.8b		
MOS	XII	05	12	34 28.1	53.8N	161.6E	33	5.1b		
KRSC	XII	05	12	34 29.6	53.84N	161.52E	46	4.9b		
EIDC	XII	05	12	34 31.2±.43	53.9N	161.5E	48±4.0	4.2b		
EIDC	Error ellipse is semi−major=15.5km semi−minor=9.3km azimuth=148									
ISC	**XII**	**05**	**12**	**45 32**±1.1	**53.64N**±.077	**161.8E**±.16	**40**±11	**4.2b**	**38**	**1-87**
EIDC	XII	05	12	45 28.8±.66	54.0N	161.6E	0	4.2b,4.6L	**¶97xii0869**	
KRSC	XII	05	12	45 30.6	53.45N	161.88E	49	4.8b		
MOS	XII	05	12	45 31.1	54.1N	161.4E	33	4.7b		
NEIC	XII	05	12	45 31.9	54.03N	161.63E	33	4.5b		
EIDC	Error ellipse is semi−major=29.0km semi−minor=14.3km azimuth=137									
ISC	**XII**	**05**	**12**	**54 45**±1.6	**53.95N**±.040	**161.38E**±.051	**31**±12	**5.0b**	**197**	**1-144**
BJI	XII	05	12	54 43.3	54.34N	161.31E	31	5.0b	**¶97xii0876**	
NEIC	XII	05	12	54 45.2	53.98N	161.40E	33	5.1b		
KRSC	XII	05	12	54 45.2	53.75N	161.79E	37	5.0b		
MOS	XII	05	12	54 45.6	54.0N	161.4E	33	5.2b		
EIDC	XII	05	12	54 48.5±.35	54.0N	161.4E	48±3.5	4.6b		
EIDC	Error ellipse is semi−major=12.9km semi−minor=8.9km azimuth=146									
ISC	**XII**	**05**	**13**	**07 43.7**±.59	**53.99N**±.046	**161.47E**±.075	**43**±5.5	**4.6b**	**88**	**1-145**
BJI	XII	05	13	07 41.8	54.58N	161.11E	26	4.5b	**¶97xii0880**	
KRSC	XII	05	13	07 42.0	53.83N	161.66E	25	5.0b		
NEIC	XII	05	13	07 42.9	54.14N	161.35E	33	4.8b		
MOS	XII	05	13	07 43.2	54.0N	161.5E	38	4.9b		
EIDC	XII	05	13	07 44.8±1.19	54.1N	161.4E	35±9.7	4.3b,4.6L		
EIDC	Error ellipse is semi−major=18.5km semi−minor=11.5km azimuth=143									
ISC	**XII**	**05**	**13**	**20 39**±3.3	**54.0N**±.12	**161.4E**±.21	**91**±30	**3.8b**	**17**	**8-131**
NEIC	XII	05	13	20 32.8	53.84N	161.69E	33	4.0b	**¶97xii0885**	
EIDC	XII	05	13	20 38.6±4.48	53.8N	161.5E	68±41.6	3.7b,4.4L		
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=26.5km semi−minor=14.4km azimuth=140									
ISC	**XII**	**05**	**13**	**25 29.0**±.62	**53.2N**±.14	**162.5E**±.23	**33**	**3.9b**	**20**	**24-80**
MOS	XII	05	13	25 28.0	53.0N	163.1E	33	4.8b	**¶97xii0886**	
EIDC	XII	05	13	25 28.0±1.06	53.8N	161.6E	19±6.0	3.8b		
NEIC	XII	05	13	25 28.1	53.87N	161.59E	33	4.6b		
EIDC	Error ellipse is semi−major=28.7km semi−minor=14.9km azimuth=140									
NEIC	Less reliable solution.									
ISC	**XII**	**05**	**13**	**28 48.8**±.63	**53.68N**±.046	**161.44E**±.069	**50**±5.5	**4.7b**	**120**	**1-145**
EIDC	XII	05	13	28 44.0±.52	53.7N	161.5E	0	4.6b,5.1L	**¶97xii0887**	
BJI	XII	05	13	28 44.7	54.07N	161.65E	39	4.7b		
MOS	XII	05	13	28 46.9	53.8N	161.5E	30	5.0b		
NEIC	XII	05	13	28 47.2	53.78N	161.52E	33	4.9b		
KRSC	XII	05	13	28 47.9	53.58N	161.68E	40	5.0b		
EIDC	Error ellipse is semi−major=18.2km semi−minor=10.8km azimuth=147									
ISC	**XII**	**05**	**13**	**35 49.5**±.62	**53.9N**±.12	**161.5E**±.20	**33**	**3.8b**	**16**	**2-81**
EIDC	XII	05	13	35 46.2±.74	53.8N	161.6E	0	3.8b	**¶97xii0888**	
NEIC	XII	05	13	35 49.4	53.93N	161.52E	33	3.9b		
EIDC	Error ellipse is semi−major=28.6km semi−minor=15.8km azimuth=139									
NEIC	Less reliable solution.									
ISC	**XII**	**05**	**13**	**39 44**±2.2	**53.93N**±.080	**161.5E**±.12	**64**±20	**4.2b**	**42**	**2-119**
EIDC	XII	05	13	39 36.9±.57	53.9N	161.6E	0	4.2b,4.4L	**¶97xii0889**	
MOS	XII	05	13	39 40.1	53.8N	161.5E	33	4.8b		
NEIC	XII	05	13	39 40.2	53.91N	161.59E	33	4.6b		
EIDC	Error ellipse is semi−major=20.7km semi−minor=12.2km azimuth=136									
ISC	**XII**	**05**	**14**	**04 38**±3.1	**53.76N**±.059	**162.2E**±.11	**13**±19	**4.5b**	**50**	**1-81**
BJI	XII	05	14	04 39.9	54.11N	161.72E	29		**¶97xii0894**	
NEIC	XII	05	14	04 40.7	53.93N	162.13E	33	4.7b		
MOS	XII	05	14	04 41.2	53.8N	162.4E	33	5.0b		
EIDC	XII	05	14	04 41.5±.70	53.9N	162.4E	24±3.7	4.2b		
KRSC	XII	05	14	04 42.2	53.80N	161.72E	39	4.7b		
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=19.0km semi−minor=13.0km azimuth=136									
ISC	**XII**	**05**	**14**	**23 05.5**±.59	**53.78N**±.036	**161.35E**±.058	**41**±5.1	**5.0b**	**234**	**1-150**
EIDC	XII	05	14	23 01.1±.49	53.8N	161.5E	0	4.8b,5.4L	**¶97xii0901**	
KRSC	XII	05	14	23 01.9	53.56N	161.85E	19	5.3b		
BJI	XII	05	14	23 02.1	54.24N	161.05E	19	5.0b		
NEIC	XII	05	14	23 04.6	53.83N	161.46E	33	5.1b		
MOS	XII	05	14	23 04.7	53.9N	161.4E	33	5.5b		
EIDC	Error ellipse is semi−major=16.9km semi−minor=10.3km azimuth=146									
NEIC	Felt I=III MM at Petropavlovsk−Kamchatskiy.									
MOS	Felt I=II−III MSK at Petropavlovsk−Kamchatskii.									
ISC	**XII**	**05**	**14**	**25 53.8**±.99	**53.58N**±.076	**162.0E**±.17	**2**	**4.5b**	**20**	**1-74**
EIDC	XII	05	14	25 57.2±9.74	54.1N	160.9E	0	4.5b	**¶97xii0902**	
KRSC	XII	05	14	25 57.2	53.74N	161.42E	2	4.5b		
EIDC	Error ellipse is semi−major=292.9km semi−minor=26.0km azimuth=116									
ISC	**XII**	**05**	**14**	**30 11**±2.2	**53.9N**±.14	**161.5E**±.46	**21**		**12**	**1-4**
KRSC	XII	05	14	30 11.7	54.00N	161.43E	21	4.2b	**¶97xii0905**	
ISC	**XII**	**05**	**14**	**37 22.6**±.75	**52.7N**±.17	**160.8E**±.27	**33**	**4.2b**	**13**	**23-120**
EIDC	XII	05	14	37 26.1±1.35	52.7N	160.8E	48±11.7	3.9b	**¶97xii0909**	
EIDC	Error ellipse is semi−major=29.8km semi−minor=19.9km azimuth=137									
ISC	**XII**	**05**	**14**	**40 25**±1.3	**53.9N**±.22	**161.5E**±.39	**33**	**4.0b**	**7**	**24-74**
NEIC	XII	05	14	40 24.8	53.87N	161.44E	33	4.3b	**¶97xii0913**	
EIDC	XII	05	14	40 28.3±1.48	53.7N	161.5E	49±9.3	3.8b		
NEIC	Poor solution.									
EIDC	Error ellipse is semi−major=42.5km semi−minor=21.2km azimuth=137									
ISC	**XII**	**05**	**14**	**41 54**±3.2	**53.8N**±.17	**161.7E**±.54	**35**		**9**	**1-5**
KRSC	XII	05	14	41 53.1	53.75N	161.84E	35	3.9b	**¶97xii0914**	
ISC	**XII**	**05**	**14**	**46 52**±1.1	**53.78N**±.042	**161.54E**±.055	**28**±7.8	**4.8b**,5.8s	**179**	**1-145**
KRSC	XII	05	14	46 48.8	53.63N	161.85E	4	5.0b	**¶97xii0915**	
EIDC	XII	05	14	46 50.1±.52	53.9N	161.5E	0	4.7b		
BJI	XII	05	14	46 50.9	54.15N	161.24E	21	5.0b		
NEIC	XII	05	14	46 53.2	53.84N	161.59E	33	5.0b		
MOS	XII	05	14	46 53.4	53.9N	161.5E	36	5.3b		
EIDC	Error ellipse is semi−major=18.0km semi−minor=11.1km azimuth=146									
ISC	**XII**	**05**	**14**	**54 35**±4.1	**53.7N**±.22	**161.7E**±.72	**20**		**10**	**1-3**
KRSC	XII	05	14	54 33.5	53.70N	161.87E	20	4.0b	**¶97xii0916**	
ISC	**XII**	**05**	**14**	**56 56**±6.8	**53.6N**±.26	**161.6E**±.79	**7**±58		**10**	**1-3**
KRSC	XII	05	14	56 55.6	53.57N	161.84E	21	4.1b	**¶97xii0917**	
ISC	**XII**	**05**	**14**	**57 59.1**±.71	**53.93N**±.069	**161.1E**±.16	**41**	**4.2b**	**23**	**1-81**
EIDC	XII	05	14	57 53.6±1.14	53.1N	163.9E	0	4.2b	**¶97xii0919**	
NEIC	XII	05	14	57 57.0	53.20N	163.88E	33	4.7b		
MOS	XII	05	14	57 59.1	53.8N	162.7E	33	4.8b		
KRSC	XII	05	14	58 00.6	53.95N	161.05E	41	4.3b		
EIDC	Error ellipse is semi−major=43.4km semi−minor=22.3km azimuth=125									
NEIC	Poor solution.									
ISC	**XII**	**05**	**15**	**00 26.6**±.74	**53.73N**±.049	**161.64E**±.089	**37**±6.1	**4.7b**	**87**	**1-87**
EIDC	XII	05	15	00 23.2±.55	53.8N	161.6E	0	4.6b,4.9L	**¶97xii0920**	
KRSC	XII	05	15	00 24.4	53.59N	161.86E	25	5.1b		
BJI	XII	05	15	00 24.6	54.41N	161.83E	47	4.8b		
NEIC	XII	05	15	00 26.5	53.86N	161.62E	33	4.8b		
MOS	XII	05	15	00 26.9	53.8N	161.6E	40	5.1b		
EIDC	Error ellipse is semi−major=18.7km semi−minor=11.8km azimuth=139									

ISC XII 05 15 03 27.7±.82 **53.83N**±.059 **161.4E**±.14 **48**±7.0 **4.2b** **37 1-87**
EIDC XII 05 15 03 23.1±.65 53.8N 161.5E 0 4.3b,4.9L **¶97xii0922**
MOS XII 05 15 03 24.5 53.9N 161.5E 24 4.8b
BJI XII 05 15 03 25.4 54.43N 160.91E 24 4.3b
KRSC XII 05 15 03 26.1 53.68N 161.67E 30 4.8b
NEIC XII 05 15 03 26.3 53.95N 161.37E 33 4.5b
EIDC Error ellipse is semi-major=22.0km semi-minor=13.8km azimuth=129
ISC XII 05 15 23 59±2.3 **53.8N**±.14 **161.3E**±.42 **0** **9 1-3**
KRSC XII 05 15 23 57.6 53.85N 161.23E 0 3.8b **¶97xii0927**
ISC XII 05 15 26 15±1.0 **54.64N**±.095 **163.2E**±.13 **38**±10 **3.9b** **16 1-74**
KRSC XII 05 15 26 10.6 54.57N 163.18E 0 4.4b **¶97xii0928**
EIDC XII 05 15 26 12.5±1.25 54.8N 162.9E 0 3.9b
NEIC XII 05 15 26 15.6 54.87N 162.90E 33 4.3b
EIDC Error ellipse is semi-major=39.3km semi-minor=21.6km azimuth=144
NEIC Less reliable solution.
ISC XII 05 15 35 48±1.2 **54.0N**±.20 **161.4E**±.39 **33** **3.9b** **7 24-74**
EIDC XII 05 15 35 44.4±1.28 53.9N 161.5E 0 3.9b **¶97xii0932**
NEIC XII 05 15 35 47.5 53.97N 161.46E 33 4.4b
EIDC Error ellipse is semi-major=43.9km semi-minor=25.1km azimuth=143
NEIC Poor solution.
ISC XII 05 15 51 09±1.0 **54.0N**±.16 **161.4E**±.35 **33** **4.0b** **9 24-81**
EIDC XII 05 15 51 04.3±2.24 53.9N 161.9E 0 4.0b **¶97xii0936**
NEIC XII 05 15 51 08.1 53.96N 161.60E 33 4.2b
EIDC Error ellipse is semi-major=73.0km semi-minor=25.1km azimuth=107
NEIC Poor solution.
ISC XII 05 15 53 57±1.3 **53.50N**±.093 **161.4E**±.21 **53**±11 **4.0b** **22 1-80**
EIDC XII 05 15 53 52.8±.88 53.7N 161.5E 0 3.9b **¶97xii0937**
KRSC XII 05 15 53 54.1 53.38N 161.67E 20 4.1b
MOS XII 05 15 53 56.0 53.8N 161.4E 33 4.5b
NEIC XII 05 15 53 56.0 53.80N 161.40E 33 4.3b
EIDC Error ellipse is semi-major=30.6km semi-minor=18.7km azimuth=141
NEIC Less reliable solution.
ISC XII 05 16 04 47±1.2 **53.8N**±.14 **161.3E**±.29 **59**±9.6 **3.7b** **16 1-81**
EIDC XII 05 16 04 41.3±1.01 53.9N 161.4E 0 3.8b **¶97xii0945**
KRSC XII 05 16 04 47.2 53.87N 160.96E 0 3.9b
EIDC Error ellipse is semi-major=43.4km semi-minor=19.7km azimuth=143
ISC XII 05 16 12 04±6.3 **54.2N**±.13 **163.3E**±.87 **40** **11 1-3**
KRSC XII 05 16 12 05.6 54.28N 163.16E 40 4.4b **¶97xii0949**
ISC XII 05 16 17 26.4±.78 **53.63N**±.055 **161.3E**±.11 **47**±6.1 **4.2b** **60 1-86**
EIDC XII 05 16 17 21.5±.74 53.7N 161.4E 0 4.1b,4.7L **¶97xii0950**
KRSC XII 05 16 17 22.8 53.46N 161.72E 16 4.8b
BJI XII 05 16 17 23.2 54.16N 160.99E 20 4.3b
NEIC XII 05 16 17 25.0 53.72N 161.29E 33 4.8b
MOS XII 05 16 17 25.3 53.8N 161.3E 31 4.9b
EIDC Error ellipse is semi-major=22.4km semi-minor=14.1km azimuth=143
KRSC Felt I=II M. Shipunskiy
ISC XII 05 16 21 44.2±.88 **53.77N**±.059 **161.5E**±.14 **47**±7.1 **4.1b** **34 1-86**
KRSC XII 05 16 21 40.8 53.66N 161.68E 10 4.5b **¶97xii0951**
MOS XII 05 16 21 42.6 53.8N 161.6E 33 4.7b
NEIC XII 05 16 21 43.0 53.88N 161.51E 33 4.5b
EIDC XII 05 16 21 48.7±4.99 53.9N 161.4E 67±45.3 3.7b
EIDC Error ellipse is semi-major=25.5km semi-minor=16.4km azimuth=131
ISC XII 05 16 25 54.7±.56 **53.87N**±.037 **161.76E**±.046 **44**±5.1 **4.8b,5.4s** **201 1-150**
KRSC XII 05 16 25 49.7 53.76N 162.16E 6 5.0b **¶97xii0954**
EIDC XII 05 16 25 50.1±.46 53.9N 161.9E 0 4.8b,5.3s
BJI XII 05 16 25 51.6 54.37N 161.46E 21 4.8b,5.5s
NEIC XII 05 16 25 53.5 53.92N 161.83E 33 4.9b
MOS XII 05 16 25 53.9 54.0N 161.7E 33 5.2b
EIDC Error ellipse is semi-major=15.6km semi-minor=10.6km azimuth=142
ISC XII 05 16 30 45.6±.71 **53.98N**±.066 **161.3E**±.17 **13** **4.3b** **25 1-74**
EIDC XII 05 16 30 42.8±1.21 52.7N 163.1E 0 4.1b **¶97xii0957**
KRSC XII 05 16 30 44.5 53.99N 161.43E 13 4.5b
NEIC XII 05 16 30 46.2 52.74N 163.05E 33 4.5b
EIDC Error ellipse is semi-major=34.0km semi-minor=21.6km azimuth=157
NEIC Poor solution.
ISC XII 05 16 32 12.1±.81 **53.86N**±.062 **161.9E**±.11 **40**±7.8 **4.2b** **36 1-87**
EIDC XII 05 16 32 08.3±.72 54.0N 161.8E 0 4.2b,5.0L **¶97xii0958**
KRSC XII 05 16 32 09.5 53.82N 161.93E 10 4.7b
MOS XII 05 16 32 11.2 53.8N 162.0E 32 4.9b
NEIC XII 05 16 32 11.3 53.96N 161.99E 33 4.7b
EIDC Error ellipse is semi-major=24.3km semi-minor=15.1km azimuth=144
ISC XII 05 16 32 41.8±.46 **53.89N**±.091 **161.9E**±.11 **33** **4.6b** **45 5-87**
EIDC XII 05 16 32 38.5±.67 53.9N 161.9E 0 4.6b,4.9L **¶97xii0959**
NEIC XII 05 16 32 41.6 53.92N 161.92E 33 4.8b
MOS XII 05 16 32 46.5 55.0N 162.3E 27 4.9b
EIDC Error ellipse is semi-major=21.1km semi-minor=13.3km azimuth=148
ISC XII 05 16 41 58.3±.94 **53.83N**±.068 **162.0E**±.14 **36**±9.2 **3.9b** **29 1-81**
KRSC XII 05 16 41 54.2 53.69N 162.17E 6 4.5b **¶97xii0963**
EIDC XII 05 16 41 55.6±.85 54.0N 161.8E 0 3.9b
NEIC XII 05 16 41 58.4 54.07N 161.84E 33 4.2b
EIDC Error ellipse is semi-major=30.2km semi-minor=15.4km azimuth=145
ISC XII 05 16 46 59.3±.97 **53.83N**±.067 **161.6E**±.17 **60**±8.1 **4.1b** **31 1-81**
EIDC XII 05 16 46 53.8±.81 53.9N 161.7E 0 4.2b,4.1L **¶97xii0965**
MOS XII 05 16 46 56.5 54.1N 161.5E 26 4.7b
NEIC XII 05 16 46 57.0 54.06N 161.46E 33 4.3b
KRSC XII 05 16 46 58.4 53.81N 161.24E 10 4.5b
EIDC Error ellipse is semi-major=29.9km semi-minor=15.4km azimuth=142
NEIC Less reliable solution.
ISC XII 05 16 50 06.7±.57 **53.94N**±.057 **161.1E**±.11 **54**±6.2 **4.1b** **35 1-86**
EIDC XII 05 16 50 01.9±.88 54.1N 160.9E 0 4.1b **¶97xii0966**
NEIC XII 05 16 50 05.1 54.11N 160.92E 33 4.7b
MOS XII 05 16 50 05.3 54.2N 161.0E 32 4.8b
KRSC XII 05 16 50 06.4 53.83N 161.16E 32 4.5b
EIDC Error ellipse is semi-major=28.4km semi-minor=15.9km azimuth=129
ISC XII 05 16 51 49.0±.89 **53.77N**±.073 **161.4E**±.15 **58**±7.7 **3.9b** **31 1-81**
EIDC XII 05 16 51 44.1±.82 53.9N 161.5E 0 3.9b **¶97xii0967**
KRSC XII 05 16 51 45.9 53.60N 161.72E 24 4.4b
NEIC XII 05 16 51 47.2 53.99N 161.34E 33 4.4b
MOS XII 05 16 51 48.0 54.1N 161.3E 33 4.5b
EIDC Error ellipse is semi-major=26.7km semi-minor=16.6km azimuth=142
NEIC Less reliable solution.
ISC XII 05 16 54 13±1.8 **53.9N**±.12 **161.4E**±.40 **33** **3.9b** **16 1-60**
KRSC XII 05 16 54 11.8 53.99N 161.15E 9 3.8b **¶97xii0968**
EIDC XII 05 16 54 49.6±1.02 54.5N 150.7E 0 3.8b,3.9L
EIDC Error ellipse is semi-major=31.3km semi-minor=18.2km azimuth=113
ISC XII 05 17 04 03±1.1 **53.89N**±.075 **162.0E**±.16 **50**±11 **4.0b** **32 1-81**
EIDC XII 05 17 03 58.0±.73 54.0N 161.9E 0 4.0b,4.3L **¶97xii0974**
KRSC XII 05 17 04 00.2 53.81N 161.87E 6 4.3b
NEIC XII 05 17 04 01.4 54.07N 161.83E 33 4.5b
MOS XII 05 17 04 02.0 53.3N 162.7E 33 4.6b
EIDC Error ellipse is semi-major=30.2km semi-minor=14.1km azimuth=149
NEIC Less reliable solution.
ISC XII 05 17 17 51.3±.94 **53.76N**±.071 **161.5E**±.15 **53**±8.4 **4.1b** **33 1-81**
EIDC XII 05 17 17 46.4±.75 53.9N 161.5E 0 4.1b,4.5L **¶97xii0981**
KRSC XII 05 17 17 49.1 53.64N 161.81E 26 4.5b
NEIC XII 05 17 17 49.7 53.95N 161.44E 33 4.5b
MOS XII 05 17 17 50.5 55.0N 159.5E 33 4.6b
EIDC Error ellipse is semi-major=26.9km semi-minor=13.9km azimuth=142
NEIC Less reliable solution.
ISC XII 05 17 21 24±3.0 **53.9N**±.14 **161.6E**±.52 **30** **9 1-3**
KRSC XII 05 17 21 24.4 53.96N 161.50E 30 3.8b **¶97xii0982**
ISC XII 05 17 23 47.9±.57 **53.78N**±.042 **161.53E**±.053 **46**±5.3 **4.7b,4.7s** **140 1-143**
BJI XII 05 17 23 43.3 54.53N 161.10E 11 4.8b,4.8s **¶97xii0983**
EIDC XII 05 17 23 43.7±.56 53.9N 161.6E 0 4.6b,4.7s
KRSC XII 05 17 23 45.6 53.66N 161.82E 26 5.0b
NEIC XII 05 17 23 46.8 53.92N 161.58E 33 4.9b,4.4s
MOS XII 05 17 23 47.3 53.8N 161.5E 41 5.1b
EIDC Error ellipse is semi-major=18.2km semi-minor=10.8km azimuth=146
ISC XII 05 17 28 24±1.0 **53.9N**±.19 **161.7E**±.42 **33** **4.0b** **7 24-87**
EIDC XII 05 17 28 20.9±1.17 53.8N 161.7E 0 4.0b **¶97xii0985**
EIDC Error ellipse is semi-major=43.4km semi-minor=21.6km azimuth=120
ISC XII 05 17 29 11.8±.79 **53.74N**±.059 **161.6E**±.12 **40**±6.7 **4.2b** **47 1-87**
EIDC XII 05 17 29 08.2±.65 53.8N 161.6E 0 4.2b,4.5L **¶97xii0986**
KRSC XII 05 17 29 10.9 53.67N 161.73E 24 4.6b
NEIC XII 05 17 29 11.4 53.88N 161.46E 33 4.6b
MOS XII 05 17 29 11.8 53.9N 161.3E 33 4.8b
EIDC Error ellipse is semi-major=24.3km semi-minor=13.2km azimuth=135
ISC XII 05 17 31 55±3.1 **53.7N**±.26 **161.4E**±.65 **61** **8 1-3**
KRSC XII 05 17 31 53.1 53.59N 161.72E 61 3.8b **¶97xii0988**
ISC XII 05 17 37 41.8±.81 **53.81N**±.059 **161.5E**±.14 **49**±6.9 **4.3b** **41 1-87**
EIDC XII 05 17 37 37.3±.66 53.9N 161.5E 0 4.3b,4.3L **¶97xii0992**
KRSC XII 05 17 37 39.8 53.75N 161.47E 12 4.6b
MOS XII 05 17 37 40.4 54.0N 161.5E 33 4.8b
NEIC XII 05 17 37 40.4 53.97N 161.49E 33 4.6b
EIDC Error ellipse is semi-major=21.7km semi-minor=13.5km azimuth=142
ISC XII 05 17 42 42±1.2 **53.53N**±.078 **162.6E**±.21 **0** **4.4b** **22 1-75**
KRSC XII 05 17 42 49.0 53.78N 161.39E 0 4.4b **¶97xii0994**
EIDC XII 05 17 42 49.7±7.86 54.2N 160.8E 0 4.3b
EIDC Error ellipse is semi-major=225.3km semi-minor=21.6km azimuth=117
ISC XII 05 17 54 01.5±.62 **53.86N**±.086 **161.0E**±.16 **18** **4.0b** **26 1-75**
KRSC XII 05 17 53 58.0 53.68N 161.59E 18 3.9b **¶97xii0996**
EIDC XII 05 17 54 08.4±.99 55.1N 161.3E 0 3.9b,4.0L
NEIC XII 05 17 54 09.2 54.75N 161.25E 33 4.3b
EIDC Error ellipse is semi-major=36.9km semi-minor=17.9km azimuth=152
NEIC Less reliable solution.
ISC XII 05 18 00 24±1.2 **53.81N**±.095 **161.8E**±.20 **19** **10 1-3**
KRSC XII 05 18 00 25.6 53.90N 161.58E 19 3.8b **¶97xii1000**
ISC XII 05 18 00 54±1.2 **53.98N**±.079 **161.9E**±.15 **47**±11 **4.0b** **33 1-81**
KRSC XII 05 18 00 49.2 53.74N 162.15E 8 4.4b **¶97xii1001**
MOS XII 05 18 00 51.1 54.1N 161.9E 21 4.7b
EIDC XII 05 18 00 52.7±.50 54.1N 161.8E 19±2.7 3.9b,4.5L
NEIC XII 05 18 00 52.8 54.20N 161.84E 33 4.3b
EIDC Error ellipse is semi-major=20.0km semi-minor=11.0km azimuth=143Aftershock: abbreviated analysis
ISC XII 05 18 06 38.4±.75 **53.90N**±.063 **161.4E**±.10 **42**±7.2 **4.3b** **57 1-87**
KRSC XII 05 18 06 36.1 53.62N 161.74E 25 4.6b **¶97xii1004**
NEIC XII 05 18 06 37.6 54.00N 161.44E 33 4.5b
MOS XII 05 18 06 38.1 54.0N 161.4E 33 4.7b
EIDC XII 05 18 06 40.8±.63 53.9N 161.4E 47±5.5 4.1b
EIDC Error ellipse is semi-major=17.0km semi-minor=11.0km azimuth=143Aftershock: abbreviated analysis
ISC XII 05 18 11 37.8±.69 **53.98N**±.061 **161.4E**±.12 **51**±6.3 **4.1b** **42 1-86**
MOS XII 05 18 11 35.9 54.1N 161.4E 32 4.7b **¶97xii1006**
NEIC XII 05 18 11 36.2 54.15N 161.44E 33 4.5b
KRSC XII 05 18 11 36.3 54.00N 161.36E 6 4.4b
EIDC XII 05 18 11 40.2±.88 54.2N 161.4E 52±6.5 3.9b
EIDC Error ellipse is semi-major=22.7km semi-minor=15.1km azimuth=150Aftershock: abbreviated analysis
ISC XII 05 18 13 51.1±.74 **53.85N**±.051 **161.83E**±.083 **50**±6.2 **4.6b**,4.7s **81 1-87**
EIDC XII 05 18 13 46.4±.55 53.9N 161.9E 0 4.5b,4.3s **¶97xii1009**
KRSC XII 05 18 13 47.0 53.80N 161.78E 0 4.9b
BJI XII 05 18 13 47.3 54.68N 161.02E 5 4.6b,5.1s
MOS XII 05 18 13 48.8 53.9N 161.8E 29 5.0b
NEIC XII 05 18 13 49.4 53.97N 161.87E 33 4.9b
EIDC Error ellipse is semi-major=17.7km semi-minor=11.7km azimuth=143
ISC XII 05 18 16 09±1.5 **53.9N**±.10 **161.6E**±.29 **44**±9.6 **4.2b** **22 1-79**
KRSC XII 05 18 16 03.6 53.73N 162.09E 9 4.5b **¶97xii1010**
EIDC XII 05 18 16 04.5±1.43 54.1N 161.5E 0 4.1b,4.2L
NEIC XII 05 18 16 08.1 54.12N 161.44E 33 4.7b
EIDC Error ellipse is semi-major=44.2km semi-minor=21.7km azimuth=132Aftershock: abbreviated analysis
NEIC Poor solution.
ISC XII 05 18 18 46±1.1 **53.4N**±.15 **162.2E**±.17 **20** **3.8b** **15 1-81**
KRSC XII 05 18 18 50.5 53.60N 161.56E 20 3.8b **¶97xii1011**
EIDC XII 05 18 18 51.0±.88 54.6N 163.1E 0 3.9b,4.3L
NEIC XII 05 18 18 54.0 54.55N 163.25E 33 4.1b
EIDC Error ellipse is semi-major=39.9km semi-minor=18.2km azimuth=147Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 05 18 23 31.8±.97 **53.64N**±.069 **161.5E**±.15 **43**±8.2 **4.0b** **34 1-81**
MOS XII 05 18 23 30.7 53.7N 161.6E 33 4.8b **¶97xii1013**
NEIC XII 05 18 23 30.8 53.77N 161.60E 33 4.5b
EIDC XII 05 18 23 33.8±.82 53.8N 161.5E 43±6.9 3.8b,4.3L
KRSC XII 05 18 23 33.8 53.78N 161.20E 36 4.4b
EIDC Error ellipse is semi-major=25.2km semi-minor=14.2km azimuth=152Aftershock: abbreviated analysis
ISC XII 05 18 27 49.9±.79 **53.83N**±.069 **162.3E**±.13 **7** **4.0b** **16 1-69**
KRSC XII 05 18 27 50.5 53.86N 162.15E 7 4.1b **¶97xii1014**
EIDC XII 05 18 27 51.7±1.04 54.4N 162.0E 0 3.9b,4.0L
NEIC XII 05 18 27 54.3 54.40N 162.00E 33 4.1b
EIDC Error ellipse is semi-major=44.7km semi-minor=19.2km azimuth=151Aftershock: abbreviated analysis
NEIC Poor solution.
ISC XII 05 18 30 20±2.7 **54.57N**±.097 **163.2E**±.13 **28**±21 **4.1b** **21 1-82**
EIDC XII 05 18 30 17.1±1.03 54.6N 162.9E 0 4.1b **¶97xii1016**
KRSC XII 05 18 30 19.2 54.65N 163.19E 24 4.5b
NEIC XII 05 18 30 20.4 54.71N 162.98E 33 4.3b
EIDC Error ellipse is semi-major=31.6km semi-minor=22.0km azimuth=163Aftershock: abbreviated analysis
NEIC Less reliable solution.

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**05 18 36 11**±4.2	**53.71N**±.081	**161.5E**±.18	**8**±32	**4.3b**	**17**	**1-81**
KRSC	XII	05 18 36 12.8	53.78N	161.31E	15	4.2b		¶97xii1019
EIDC	XII	05 18 36 21.3±2.71	55.2N	156.8E	0	4.1b		
EIDC	Error ellipse is semi−major=103.7km semi−minor=25.3km azimuth=100LO CONF LocationAftershock: abbreviated analysis							
ISC	**XII**	**05 18 38 18.7**±.78	**53.87N**±.054	**161.9E**±.10	**45**±7.6	**4.3b**	**48**	**1-81**
KRSC	XII	05 18 38 16.6	53.75N	162.16E	31	4.6b		¶97xii1020
MOS	XII	05 18 38 17.6	53.9N	162.0E	31	4.8b		
NEIC	XII	05 18 38 17.6	54.01N	161.84E	33	4.6b		
EIDC	XII	05 18 38 18.9±.57	54.0N	161.9E	30±3.5	4.2b,4.8L		
EIDC	Error ellipse is semi−major=18.2km semi−minor=11.2km azimuth=153Aftershock: abbreviated analysis							
ISC	**XII**	**05 18 40 16**±1.6	**53.8N**±.11	**161.1E**±.31	**20**	4.3b	**11**	**1-59**
KRSC	XII	05 18 40 16.7	53.86N	161.02E	20	4.1b		¶97xii1021
ISC	**XII**	**05 18 45 54.4**±.99	**53.86N**±.075	**161.7E**±.16	**45**±9.7	**3.9b**	**30**	**1-81**
NEIC	XII	05 18 45 53.4	54.07N	161.57E	33	4.3b		¶97xii1023
MOS	XII	05 18 45 53.5	54.0N	161.5E	33	4.7b		
KRSC	XII	05 18 45 53.5	53.85N	161.51E	16	4.4b		
EIDC	XII	05 18 45 56.0±.83	54.0N	161.6E	40±6.8	3.7b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=28.8km semi−minor=13.8km azimuth=150Aftershock: abbreviated analysis							
ISC	**XII**	**05 18 48 20.7**±.80	**53.72N**±.022	**161.72E**±.028	**17**±5.6	**6.1b,6.5s**	**757**	**1-162**
KRSC	XII	05 18 48 21.2	53.68N	161.85E	24	6.1b		¶97xii1025
BJI	XII	05 18 48 21.3	54.01N	161.46E	31	5.9b,6.9s		
MOS	XII	05 18 48 22.2	53.7N	161.6E	33	6.4b,6.7s		
NEIC	XII	05 18 48 22.7	53.75N	161.75E	33	6.2b,6.5s		
EIDC	XII	05 18 48 25.4±.39	53.9N	161.5E	46±2.8	5.5b,6.5s		
HRVD	XII	05 18 48 28.3±.2	53.68N±.02	161.96E±.03	16			
KRSC	Felt I=I−II Severo−Kurilsk, III Nachiki, Afrika, Petropavlovsk							
MOS	Felt I=III−IV MSK at Petropavlovsk−Kamchatskii; I=I−II at Severo−Kurilsk.							
MOS	M_O=9.3×10^{18}Nm							
NEIC	Mw6.6(OBN), Me6.5(GS)							
NEIC	Radiated energy from the P−wave first−motion solution: 1.1±0.2×10^{14}Nm/18							
NEIC	Mw 6.5 (HRV), 6.4 (GS). Ms 6.4 (BRK). Felt I=IV MSK at Petropavlovsk-Kamchatskiy. Also felt II MSK at Severo-Kurilsk, Paramushir. Mo=9.3×10^{18}Nm (OBN).							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S195°,δ5°,λ90°. NP2:ϕ_S15°,δ85°,λ90°. Principal axes: T Plg50°,Azm285°; P Plg40°,Azm105°. Depth from synthetics of broadband displacement seismograms.							
NEIC	Moment tensor solution: s47, scale 10^{18}Nm; M_{rr}0.54; $M_{\theta\theta}$0.20; $M_{\phi\phi}$−0.74; $M_{r\theta}$1.02; $M_{r\phi}$3.52; $M_{\theta\phi}$0.47. Depth 16km; Principal axes: T 3.81,Plg48°,Azm296°; N −0.11,Plg10°,Azm194°; P −3.70,Plg40°,Azm96°. Best double couple: M_O3.8×10^{18}Nm; NP1:ϕ_S126°,δ11°,λ21°. NP2: ϕ_S15°,δ86°,λ100°.							
EIDC	Error ellipse is semi−major=15.1km semi−minor=9.6km azimuth=155Aftershock: abbreviated analysis							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c77; Mantle waves: s4,c4; Half duration: 4s0. Moment tensor: Scale 10^{18}Nm; M_{rr}2.70±.06; $M_{\theta\theta}$0.34±.07; $M_{\phi\phi}$−3.04±.08; $M_{r\theta}$1.22±.17; $M_{r\phi}$4.14±.19; $M_{\theta\phi}$−1.66±.07. Principal Axes: T 4.89,Plg63°,Azm279°; N 0.98,Plg4°,Azm18°; P −5.87,Plg27°,Azm110°. Best double couple: M_O5.4×10^{18}Nm, NP1:ϕ_S212°,δ19°,λ104°. NP2:ϕ_S17°,δ72°,λ85°.							
ISC	**XII**	**05 18 56 37**±1.6	**53.46N**±.097	**162.7E**±.25	**11**	**4.6b**	**19**	**1-63**
EIDC	XII	05 18 56 42.7±6.25	54.0N	161.4E	0	4.5b,4.5L		¶97xii1028
KRSC	XII	05 18 56 43.9	53.67N	161.78E	11	4.3b		
EIDC	Error ellipse is semi−major=166.0km semi−minor=25.2km azimuth=115Aftershock: abbreviated analysis							
EIDC	**XII**	**05 18 58 38.5**±2.98	**52.4N**	**161.7E**	**0**	**4.0b**		**59-80** ¶97xii1029
EIDC	Error ellipse is semi−major=94.8km semi−minor=44.0km azimuth=94Aftershock: abbreviated analysis							
ISC	**XII**	**05 18 59 20.0**±.88	**53.91N**±.080	**161.5E**±.15	**54**±8.3	**4.3b**	**30**	**1-81**
NEIC	XII	05 18 59 17.9	54.07N	161.52E	33	4.6b		¶97xii1031
MOS	XII	05 18 59 18.2	54.1N	161.5E	33	4.8b		
KRSC	XII	05 18 59 19.7	53.80N	161.55E	20	4.5b		
EIDC	XII	05 18 59 19.8±.84	53.9N	161.6E	33±7.0	4.2b,4.8L		
EIDC	Error ellipse is semi−major=26.7km semi−minor=13.4km azimuth=144Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 02 05.1**±.60	**53.78N**±.049	**161.64E**±.068	**48**±6.1	**4.7b**	**107**	**1-143**
BJI	XII	05 19 02 01.9	54.26N	161.46E	25	4.4b		¶97xii1033
MOS	XII	05 19 02 03.5	53.7N	161.8E	33	5.3b		
NEIC	XII	05 19 02 03.5	53.88N	161.63E	33	5.1b		
KRSC	XII	05 19 02 04.6	53.76N	161.67E	30	5.1b		
EIDC	XII	05 19 02 05.5±1.24	53.9N	161.6E	34±9.6	4.5b,5.0L		
EIDC	Error ellipse is semi−major=19.4km semi−minor=10.3km azimuth=150Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 02 24**±2.3	**53.96N**±.061	**161.46E**±.099	**42**±20	**4.9b**	**101**	**2-145**
BJI	XII	05 19 02 19.9	54.00N	161.50E	33	4.8b		¶97xii1034
MOS	XII	05 19 02 21.8	53.8N	161.5E	33	5.3b		
NEIC	XII	05 19 02 22.9	53.96N	161.47E	33	5.0b		
EIDC	XII	05 19 02 26.0±.54	53.9N	161.7E	42±4.0	4.6b,5.3L		
EIDC	Error ellipse is semi−major=20.4km semi−minor=10.6km azimuth=147Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 04 02**±1.4	**53.77N**±.030	**161.54E**±.041	**2**±8.5	**5.5b**,6.2s	**367**	**1-150**
KRSC	XII	05 19 04 03.9	53.82N	161.72E	8	5.5b		¶97xii1036
BJI	XII	05 19 04 04.2	54.17N	161.25E	22	5.4b,6.2s		
MOS	XII	05 19 04 05.4	53.6N	161.8E	33	5.9b		
NEIC	XII	05 19 04 06.7	53.79N	161.60E	33	5.5b		
EIDC	XII	05 19 04 09.5±.48	53.9N	161.5E	39±3.7	4.9b		
EIDC	Error ellipse is semi−major=17.5km semi−minor=10.1km azimuth=147							
ISC	**XII**	**05 19 06 42**±2.0	**54.0N**±.31	**161.3E**±.65	**42**		**7**	**1-2**
KRSC	XII	05 19 06 40.6	53.74N	161.77E	42	4.5b		¶97xii1037
ISC	**XII**	**05 19 09 13**±2.6	**53.9N**±.21	**161.3E**±.57	**1**		**7**	**1-2**
KRSC	XII	05 19 09 11.7	53.78N	161.55E	1	4.1b		¶97xii1038
ISC	**XII**	**05 19 12 46**±3.1	**53.8N**±.18	**161.6E**±.56	**17**±16	**4.0b**	**12**	**1-63**
KRSC	XII	05 19 12 43.9	53.77N	161.67E	7	4.1b		¶97xii1039
EIDC	XII	05 19 12 54.6±9.46	55.0N	158.1E	0	3.9b,4.2L		
EIDC	Error ellipse is semi−major=259.8km semi−minor=29.7km azimuth=110Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 13 26.2**±.68	**53.9N**±.19	**161.8E**±.21	**33**	**3.9b**	**16**	**24-74**
NEIC	XII	05 19 13 26.0	53.89N	161.86E	33	4.3b		¶97xii1041
EIDC	XII	05 19 13 32.6±1.04	53.9N	161.8E	78±8.5	3.5b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=35.0km semi−minor=14.8km azimuth=155Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 17 12**±1.0	**53.83N**±.082	**161.7E**±.17	**47**±11	**4.2b**	**27**	**1-81**
KRSC	XII	05 19 17 09.2	53.71N	162.03E	20	4.3b		¶97xii1043
NEIC	XII	05 19 17 10.6	54.03N	161.73E	33	4.3b		
EIDC	XII	05 19 17 12.8±.90	54.0N	161.7E	37±6.9	3.9b,4.2L		
MOS	XII	05 19 18 07.9	54.0N	161.7E	19	4.6b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=27.6km semi−minor=15.3km azimuth=155Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 18 13.5**±.73	**53.93N**±.063	**161.6E**±.10	**69**±7.2	**4.3b**	**62**	**1-81**
NEIC	XII	05 19 18 10.3	54.11N	161.71E	33	4.5b		¶97xii1044
KRSC	XII	05 19 18 11.4	53.83N	161.28E	2	4.5b		
EIDC	XII	05 19 18 13.3±.63	54.1N	161.7E	40±4.5	4.1b,4.6L		
EIDC	Error ellipse is semi−major=17.6km semi−minor=12.3km azimuth=146Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 20 24**±1.2	**53.77N**±.081	**161.8E**±.19	**43**±11	**4.1b**	**23**	**1-81**
EIDC	XII	05 19 20 20.3±.79	54.0N	161.7E	0	4.1b,4.7L		¶97xii1045
KRSC	XII	05 19 20 23.2	53.77N	161.60E	7	4.4b		
NEIC	XII	05 19 20 23.4	54.02N	161.75E	33	4.4b		
EIDC	Error ellipse is semi−major=27.7km semi−minor=15.9km azimuth=147Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**05 19 21 13.9**±.74	**53.90N**±.057	**161.65E**±.097	**55**±6.6	**4.5b**	**63**	**1-81**
BJI	XII	05 19 21 09.6	54.00N	161.60E	33	4.1b		¶97xii1046
MOS	XII	05 19 21 10.8	54.1N	161.6E	23	4.8b		
NEIC	XII	05 19 21 11.6	54.00N	161.64E	33	4.6b		
KRSC	XII	05 19 21 13.7	53.88N	161.52E	34	4.8b		
EIDC	XII	05 19 21 13.8±.82	54.0N	161.7E	36±6.9	4.3b,4.6L		
EIDC	Error ellipse is semi−major=21.1km semi−minor=11.6km azimuth=150Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 23 01**±1.5	**53.8N**±.11	**162.0E**±.29	**29**	**4.3b**	**17**	**1-74**
KRSC	XII	05 19 23 01.4	53.83N	161.89E	29	4.4b		¶97xii1047
EIDC	XII	05 19 23 20.1±1.30	55.7N	155.3E	0	4.2b,4.3L		
EIDC	Error ellipse is semi−major=40.5km semi−minor=21.3km azimuth=119LO CONF LocationAftershock: abbreviated analysis							
ISC	**XII**	**05 19 25 44**±1.5	**53.95N**±.091	**161.7E**±.27	**41**±15	**3.6b**	**18**	**1-81**
EIDC	XII	05 19 25 40.8±1.13	54.2N	161.8E	0	3.8b,4.2L		¶97xii1049
KRSC	XII	05 19 25 41.9	53.81N	161.71E	10	4.1b		
EIDC	Error ellipse is semi−major=47.4km semi−minor=23.1km azimuth=138Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 27 18**±1.4	**53.8N**±.13	**162.9E**±.21	**40**	**3.6b**	**10**	**1-69**
EIDC	XII	05 19 27 17.3±1.75	55.2N	162.9E	0	3.7b,3.8L		¶97xii1050
KRSC	XII	05 19 27 26.8	54.00N	161.66E	40	3.8b		
EIDC	Error ellipse is semi−major=53.1km semi−minor=29.4km azimuth=155Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 29 28**±1.1	**53.75N**±.085	**161.6E**±.19	**44**±9.3	**4.0b**	**27**	**1-87**
EIDC	XII	05 19 29 23.9±.74	53.8N	161.6E	0	4.0b,4.5L		¶97xii1053
KRSC	XII	05 19 29 26.8	53.66N	161.71E	29	4.4b		
NEIC	XII	05 19 29 26.9	53.87N	161.53E	33	4.4b		
EIDC	Error ellipse is semi−major=28.6km semi−minor=14.7km azimuth=140Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**05 19 31 37**±1.2	**53.89N**±.079	**161.9E**±.19	**50**±10	**3.9b**	**24**	**1-119**
EIDC	XII	05 19 31 32.8±.95	54.1N	161.7E	0	3.9b,4.3L		¶97xii1054
MOS	XII	05 19 31 35.6	54.1N	161.9E	33	4.5b		
NEIC	XII	05 19 31 35.8	54.16N	161.77E	33	4.4b		
KRSC	XII	05 19 31 36.1	53.88N	161.68E	8	4.2b		
EIDC	Error ellipse is semi−major=35.2km semi−minor=15.9km azimuth=146Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**05 19 37 29.4**±.92	**53.74N**±.073	**161.7E**±.13	**44**±9.0	**4.0b**	**33**	**1-81**
NEIC	XII	05 19 37 28.5	53.88N	161.66E	33	4.3b		¶97xii1055
KRSC	XII	05 19 37 28.9	53.63N	161.63E	17	4.4b		
MOS	XII	05 19 37 29.1	53.9N	161.5E	33	4.6b		
EIDC	XII	05 19 37 30.7±.76	53.8N	161.8E	37±5.7	3.9b,4.5L		
EIDC	Error ellipse is semi−major=22.4km semi−minor=12.2km azimuth=155Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 39 08**±1.0	**53.91N**±.065	**161.9E**±.14	**41**±8.8	**4.3b**	**35**	**1-86**
KRSC	XII	05 19 39 06.9	53.92N	161.56E	0	4.4b		¶97xii1056
MOS	XII	05 19 39 07.2	53.9N	161.8E	33	4.6b		
NEIC	XII	05 19 39 07.3	54.00N	161.88E	33	4.4b		
EIDC	XII	05 19 39 09.2±.75	54.0N	161.9E	32±5.2	4.1b,4.8L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=24.1km semi−minor=14.2km azimuth=147Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 52 46**±1.1	**53.7N**±.11	**161.8E**±.18	**30**	**3.6b**	**13**	**1-59**
KRSC	XII	05 19 52 44.2	53.58N	162.11E	30	4.1b		¶97xii1060
EIDC	XII	05 19 52 50.2±2.61	54.2N	162.9E	0	3.6b		
EIDC	Error ellipse is semi−major=190.9km semi−minor=29.0km azimuth=155Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 55 21.3**±.64	**53.85N**±.048	**161.83E**±.072	**48**±5.6	**4.5b**	**84**	**1-86**
MOS	XII	05 19 55 17.2	54.0N	161.8E	12	5.0b		¶97xii1062
KRSC	XII	05 19 55 17.7	53.71N	162.22E	22	4.9b		
BJI	XII	05 19 55 18.9	54.00N	161.80E	33	4.7b		
NEIC	XII	05 19 55 19.9	53.98N	161.85E	33	4.8b		
EIDC	XII	05 19 55 21.3±.72	53.9N	161.9E	31±5.2	4.3b,5.0L		
EIDC	Error ellipse is semi−major=18.9km semi−minor=12.1km azimuth=150Aftershock: abbreviated analysis							
ISC	**XII**	**05 19 58 03**±4.0	**53.8N**±.14	**162.2E**±.42	**25**±20	**4.2b**	**16**	**1-63**
KRSC	XII	05 19 58 04.6	53.88N	161.51E	0	4.3b		¶97xii1063
EIDC	XII	05 19 58 13.8±8.81	54.4N	160.2E	43±9.8	4.0b,4.2L		
EIDC	Error ellipse is semi−major=242.1km semi−minor=23.1km azimuth=116Aftershock: abbreviated analysis							
ISC	**XII**	**05 20 02 07**±1.6	**53.71N**±.093	**162.4E**±.20	**45**±13	**4.1b**	**26**	**1-86**
NEIC	XII	05 20 02 07.5	54.16N	162.33E	33	4.3b		¶97xii1064
KRSC	XII	05 20 02 08.0	53.72N	162.10E	54	4.4b		
EIDC	XII	05 20 02 11.8±.99	54.1N	162.4E	52±8.1	3.9b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=23.1km semi−minor=15.8km azimuth=153Aftershock: abbreviated analysis							
ISC	**XII**	**05 20 06 49.0**±.62	**53.68N**±.042	**161.69E**±.048	**39**±5.7	**4.8b,5.5s**	**187**	**1-162**
BJI	XII	05 20 06 45.9	54.33N	161.34E	20	4.8b,5.7s		¶97xii1067
MOS	XII	05 20 06 47.5	53.6N	161.9E	33	5.2b		
NEIC	XII	05 20 06 48.3	53.73N	161.71E	33	5.1b		
KRSC	XII	05 20 06 50.5	53.79N	161.39E	16	5.1b		
EIDC	XII	05 20 06 50.6±.73	53.7N	161.6E	35±5.0	4.4b,5.3s		
EIDC	Error ellipse is semi−major=16.0km semi−minor=10.5km azimuth=159Aftershock: abbreviated analysis							
ISC	**XII**	**05 20 09 34**±1.2	**54.0N**±.17	**161.1E**±.39	**40**	**4.3b**	**18**	**1-79**
EIDC	XII	05 20 09 21.1±1.44	53.4N	163.8E	0	4.2b		¶97xii1068
NEIC	XII	05 20 09 23.6	53.31N	163.96E	33	4.5b		
KRSC	XII	05 20 09 30.7	53.69N	161.89E	40	4.4b		
EIDC	Error ellipse is semi−major=58.8km semi−minor=26.1km azimuth=150Aftershock: abbreviated analysis							
NEIC	Poor solution.							
ISC	**XII**	**05 20 10 40**±1.1	**53.83N**±.083	**161.6E**±.15	**34**±9.7	**4.3b**	**35**	**1-87**
KRSC	XII	05 20 10 38.7	53.70N	161.91E	38	4.6b		¶97xii1069
NEIC	XII	05 20 10 40.3	53.88N	161.61E	33	4.3b		

MOS XII 05 20 10 40.7 53.7N 161.7E 38 4.6b
EIDC XII 05 20 10 42.8±.79 53.8N 161.6E 39±7.1 4.1b,4.6L
EIDC Error ellipse is semi-major=25.8km semi-minor=12.1km azimuth=144Aftershock: abbreviated analysis
ISC XII 05 20 12 23±2.1 **53.65N**±.066 **161.8E**±.11 **29**±15 **4.3b** **56 1-81**
EIDC XII 05 20 12 20.1±.77 53.7N 161.7E 0 4.2b,4.8L **¶97xii1071**
BJI XII 05 20 12 21.6 54.06N 161.97E 44 4.3b
NEIC XII 05 20 12 23.1 53.75N 161.73E 33 4.7b
MOS XII 05 20 12 23.5 53.6N 161.8E 33 4.8b
KRSC XII 05 20 12 26.2 53.83N 161.05E 21 4.6b
EIDC Error ellipse is semi-major=23.4km semi-minor=13.3km azimuth=145Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 05 20 18 25±3.0 **53.7N**±.10 **162.0E**±.18 **2**±19 **4.0b** **29 1-81**
KRSC XII 05 20 18 27.1 53.85N 161.64E 3 4.3b **¶97xii1074**
NEIC XII 05 20 18 29.4 54.26N 161.52E 33 4.1b
EIDC XII 05 20 18 31.7±.76 54.1N 161.6E 36±5.7 3.7b,4.2L
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=29.7km semi-minor=13.9km azimuth=153Aftershock: abbreviated analysis
ISC XII 05 20 21 12.3±.79 **53.81N**±.055 **161.70E**±.096 **40**±6.9 **4.3b** **65 1-150**
KRSC XII 05 20 21 09.2 53.73N 161.64E 5 4.8b **¶97xii1075**
MOS XII 05 20 21 12.0 53.8N 161.7E 38 4.9b
NEIC XII 05 20 21 12.0 53.97N 161.68E 33 4.7b
EIDC XII 05 20 21 14.9±.64 53.9N 161.7E 42±5.1 4.0b,4.9L
EIDC Error ellipse is semi-major=17.7km semi-minor=11.0km azimuth=143Aftershock: abbreviated analysis
ISC XII 05 20 22 53±1.8 **53.8N**±.19 **161.2E**±.46 **42** **9 1-24**
KRSC XII 05 20 22 49.7 53.65N 161.82E 42 4.2b **¶97xii1076**
ISC XII 05 20 30 53±1.0 **53.60N**±.037 **161.77E**±.050 **17**±7.0 **5.0b,5.4s** **245 1-162**
KRSC XII 05 20 30 50.6 53.57N 161.93E 2 5.3b **¶97xii1079**
BJI XII 05 20 30 53.5 54.07N 161.23E 15 5.0b,5.4s
MOS XII 05 20 30 55.2 53.6N 161.8E 33 5.4b
NEIC XII 05 20 30 55.6 53.66N 161.84E 33 5.1b
EIDC XII 05 20 30 59.6±.51 53.8N 161.6E 52±3.9 4.4b,5.3s
EIDC Error ellipse is semi-major=16.2km semi-minor=11.8km azimuth=143Aftershock: abbreviated analysis
ISC XII 05 20 33 04±2.6 **53.91N**±.074 **161.53E**±.085 **29**±19 **4.8b** **91 1-119**
MOS XII 05 20 33 03.5 54.1N 161.5E 19 5.3b **¶97xii1081**
NEIC XII 05 20 33 04.5 53.93N 161.55E 33 4.9b
KRSC XII 05 20 33 06.9 53.65N 161.23E 20 4.7b
EIDC XII 05 20 33 07.9±.74 53.9N 161.5E 48±7.1 4.5b
EIDC Error ellipse is semi-major=19.5km semi-minor=12.6km azimuth=146Aftershock: abbreviated analysis
ISC XII 05 20 39 32.1±.87 **53.60N**±.065 **161.8E**±.11 **36**±7.4 **4.4b** **43 1-81**
KRSC XII 05 20 39 29.0 53.52N 161.98E 10 4.8b **¶97xii1082**
EIDC XII 05 20 39 29.5±.76 53.7N 161.6E 0 4.3b,5.0L
BJI XII 05 20 39 31.3 54.08N 161.15E 17 4.5b
NEIC XII 05 20 39 32.0 53.79N 161.69E 33 4.9b
MOS XII 05 20 39 32.2 53.7N 161.7E 33 5.0b
EIDC Error ellipse is semi-major=22.1km semi-minor=14.1km azimuth=144Aftershock: abbreviated analysis
ISC XII 05 20 41 54±1.3 **53.71N**±.092 **161.7E**±.20 **48**±11 **4.0b** **21 1-81**
KRSC XII 05 20 41 49.3 53.58N 162.01E 4 4.4b **¶97xii1084**
NEIC XII 05 20 41 53.1 53.87N 161.62E 33 4.4b
EIDC XII 05 20 41 55.3±.80 53.7N 161.6E 37±8.1 3.8b,4.1L
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=30.2km semi-minor=14.6km azimuth=144Aftershock: abbreviated analysis
ISC XII 05 20 42 53.1±.81 **53.79N**±.054 **161.94E**±.093 **38**±6.9 **4.4b** **70 1-86**
EIDC XII 05 20 42 49.5±.67 53.9N 161.9E 0 4.3b,4.7L **¶97xii1085**
BJI XII 05 20 42 50.5 53.90N 161.90E 33 4.4b
KRSC XII 05 20 42 50.8 53.79N 161.76E 4 4.6b
MOS XII 05 20 42 52.3 53.8N 161.9E 30 4.9b
NEIC XII 05 20 42 52.4 53.90N 161.86E 33 4.7b
EIDC Error ellipse is semi-major=21.4km semi-minor=12.3km azimuth=147Aftershock: abbreviated analysis
ISC XII 05 20 49 30±1.6 **54.0N**±.17 **161.2E**±.44 **6** **8 1-2**
KRSC XII 05 20 49 30.4 53.95N 161.16E 6 3.9b **¶97xii1088**
ISC XII 05 20 59 22.8±.69 **53.8N**±.13 **162.1E**±.18 **39**±1.8* **4.2b** **20 5-86**
MOS XII 05 20 59 21.2 53.7N 161.9E 33 4.9b **¶97xii1091**
NEIC XII 05 20 59 21.8 53.85N 162.08E 33 4.7b
EIDC XII 05 20 59 24.6±.74 53.8N 162.1E 40±5.4 3.9b,4.4L
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=26.1km semi-minor=13.1km azimuth=153Aftershock: abbreviated analysis
KRSC XII 05 21 10 04.4 53.83N 161.63E 0 4.0b **¶97xii1095**
ISC XII 05 21 11 00±1.1 **53.87N**±.098 **161.6E**±.18 **45**±10 **4.0b** **20 1-74**
EIDC XII 05 21 10 55.8±.95 53.9N 161.5E 0 4.0b **¶97xii1096**
KRSC XII 05 21 10 58.4 53.80N 161.74E 52 3.9b
NEIC XII 05 21 10 58.8 53.96N 161.58E 33 4.1b
EIDC Error ellipse is semi-major=29.3km semi-minor=17.8km azimuth=158Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 05 21 14 30.0±.59 **53.92N**±.042 **161.40E**±.060 **42**±5.5 **4.6b** **133 1-163**
KRSC XII 05 21 14 27.5 53.79N 161.71E 18 5.0b **¶97xii1097**
BJI XII 05 21 14 27.9 54.30N 161.64E 42 4.7b
NEIC XII 05 21 14 29.0 53.98N 161.42E 33 4.8b
MOS XII 05 21 14 29.9 54.0N 161.3E 39 5.2b
EIDC XII 05 21 14 32.5±.42 53.9N 161.5E 51±3.7 4.3b
EIDC Error ellipse is semi-major=13.3km semi-minor=8.9km azimuth=142Aftershock: abbreviated analysis
EIDC XII 05 21 18 32.3 54.0N 161.2E 0 4.0b **24-60**
¶97xii1098
EIDC Origin time error = 13.09Error ellipse is semi-major=364.7km semi-minor=32.9km azimuth=113Aftershock: abbreviated analysis
ISC XII 05 21 19 44.3±.62 **53.77N**±.042 **161.87E**±.052 **43**±5.4 **5.1b,5.6s** **249 1-145**
KRSC XII 05 21 19 40.6 53.70N 162.30E 14 5.2b **¶97xii1099**
BJI XII 05 21 19 41.3 54.20N 161.30E 14 5.0b,5.5s
NEIC XII 05 21 19 43.4 53.86N 161.91E 33 5.2b
MOS XII 05 21 19 43.9 53.9N 161.8E 36 5.5b
EIDC XII 05 21 19 44.7±.96 53.9N 161.9E 29±6.9 4.6b,5.2L
EIDC Error ellipse is semi-major=17.4km semi-minor=11.2km azimuth=156Aftershock: abbreviated analysis
ISC XII 05 21 24 21±1.3 **53.75N**±.037 **161.52E**±.042 **27**±9.7 **5.2b,5.3s** **328 1-162**
BJI XII 05 21 24 19.3 54.17N 161.65E 37 4.9b,5.6s **¶97xii1103**
MOS XII 05 21 24 21.5 53.8N 161.6E 35 5.5b
NEIC XII 05 21 24 21.6 53.79N 161.59E 33 5.2b,5.3s
KRSC XII 05 21 24 21.7 53.61N 161.74E 43 5.2b
EIDC XII 05 21 24 25.0±.54 53.8N 161.5E 46±4.7 4.8b,5.4s
EIDC Error ellipse is semi-major=15.5km semi-minor=10.6km azimuth=153Aftershock: abbreviated analysis
ISC XII 05 21 32 16.4±.84 **53.89N**±.061 **161.86E**±.094 **42**±7.5 **4.6b** **66 1-86**
KRSC XII 05 21 32 11.0 53.71N 162.29E 5 4.8b **¶97xii1106**
BJI XII 05 21 32 14.3 54.42N 161.48E 22 4.5b
MOS XII 05 21 32 15.4 54.0N 161.8E 33 5.0b
NEIC XII 05 21 32 15.7 54.04N 161.88E 33 4.8b
EIDC XII 05 21 32 16.3±.72 54.0N 162.0E 25±4.9 4.3b,4.8L
EIDC Error ellipse is semi-major=21.3km semi-minor=13.0km azimuth=146Aftershock: abbreviated analysis
ISC XII 05 21 37 31.9±.78 **53.81N**±.061 **161.5E**±.12 **49**±6.5 **4.4b** **56 1-86**
KRSC XII 05 21 37 29.5 53.64N 161.77E 27 4.5b **¶97xii1107**
NEIC XII 05 21 37 30.5 53.96N 161.42E 33 4.7b
MOS XII 05 21 37 30.8 53.9N 161.4E 37 4.9b
EIDC XII 05 21 37 32.9±.60 53.9N 161.5E 40±5.8 4.1b,4.4L
EIDC Error ellipse is semi-major=19.8km semi-minor=10.5km azimuth=143Aftershock: abbreviated analysis
ISC XII 05 21 51 16±1.0 **53.86N**±.073 **161.8E**±.16 **51**±8.6 **4.1b** **29 1-86**
EIDC XII 05 21 51 10.9±.91 53.9N 161.9E 0 4.0b,4.3L **¶97xii1109**
KRSC XII 05 21 51 11.6 53.71N 162.29E 19 4.5b
NEIC XII 05 21 51 14.3 54.03N 161.86E 33 4.4b
MOS XII 05 21 51 14.9 54.2N 161.7E 33 4.5b
EIDC Error ellipse is semi-major=28.2km semi-minor=18.6km azimuth=149Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 05 22 00 28±2.4 **53.9N**±.15 **161.5E**±.48 **18** **3.7b** **13 1-60**
KRSC XII 05 22 00 22.4 53.71N 162.22E 18 3.9b **¶97xii1112**
EIDC XII 05 22 00 32.5±1.88 54.3N 159.5E 0 3.8b
EIDC Error ellipse is semi-major=65.9km semi-minor=25.0km azimuth=134Aftershock: abbreviated analysis
EIDC XII 05 22 04 48.1±2.02 **53.7N 161.8E 0 3.6b** **28-69**
¶97xii1113
EIDC Error ellipse is semi-major=153.6km semi-minor=29.8km azimuth=156Aftershock: abbreviated analysis
ISC XII 05 22 10 30.6±.86 **53.72N**±.077 **161.7E**±.14 **43**±9.6 **4.1b** **29 1-81**
MOS XII 05 22 10 30.1 53.7N 161.9E 33 4.5b **¶97xii1115**
KRSC XII 05 22 10 30.1 53.73N 161.53E 15 4.3b
NEIC XII 05 22 10 30.2 53.92N 161.80E 33 4.5b
EIDC XII 05 22 10 34.0±1.05 53.9N 161.7E 55±8.8 3.8b
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=28.7km semi-minor=14.9km azimuth=151Aftershock: abbreviated analysis
ISC XII 05 22 12 32±1.9 **53.8N**±.15 **161.6E**±.33 **47**±16 **3.9b** **12 1-81**
KRSC XII 05 22 12 32.4 53.82N 161.34E 21 4.0b **¶97xii1116**
EIDC XII 05 22 12 33.8±1.32 53.8N 161.6E 45±10.4 3.7b
EIDC Error ellipse is semi-major=42.5km semi-minor=20.5km azimuth=135Aftershock: abbreviated analysis
ISC XII 05 22 13 46±5.0 **53.6N**±.21 **162.2E**±.78 **42**±22 **4.1b** **14 1-60**
KRSC XII 05 22 13 43.8 53.61N 162.23E 14 4.1b **¶97xii1117**
EIDC XII 05 22 13 48.1±7.73 54.2N 160.9E 0 4.1b,4.4L
EIDC Error ellipse is semi-major=192.5km semi-minor=30.2km azimuth=111Aftershock: abbreviated analysis
ISC XII 05 22 15 40±1.0 **53.88N**±.071 **161.6E**±.16 **46**±8.3 **4.1b** **32 1-81**
KRSC XII 05 22 15 34.8 53.69N 162.04E 9 4.5b **¶97xii1118**
MOS XII 05 22 15 37.9 53.7N 161.9E 33 4.5b
NEIC XII 05 22 15 38.6 54.04N 161.59E 33 4.1b
EIDC XII 05 22 15 40.8±.87 54.0N 161.7E 37±7.3 4.0b,4.4L
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=23.0km semi-minor=14.9km azimuth=144Aftershock: abbreviated analysis
ISC XII 05 22 19 06±1.6 **53.9N**±.28 **161.1E**±.37 **33** **4.0b** **7 46-74**
EIDC XII 05 22 19 03.4±1.77 53.9N 161.3E 0 4.0b **¶97xii1120**
EIDC Error ellipse is semi-major=45.5km semi-minor=34.3km azimuth=159Aftershock: abbreviated analysis
EIDC XII 05 22 22 09.4±5.85 **53.8N 161.8E 0 4.1b** **47-60**
¶97xii1122
EIDC Error ellipse is semi-major=157.0km semi-minor=40.6km azimuth=14Aftershock: abbreviated analysis
ISC XII 05 22 23 41±2.6 **53.84N**±.074 **161.7E**±.13 **28**±20 **4.3b** **37 1-78**
KRSC XII 05 22 23 34.9 53.57N 162.51E 7 4.6b **¶97xii1123**
EIDC XII 05 22 23 39.7±.82 54.0N 161.6E 0 4.2b,4.5L
MOS XII 05 22 23 41.6 54.0N 161.5E 33 4.7b
NEIC XII 05 22 23 42.3 53.97N 161.73E 33 4.7b
EIDC Error ellipse is semi-major=29.2km semi-minor=14.0km azimuth=152Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 05 22 28 11±5.3 **54.9N**±.10 **163.2E**±.79 **9** **9 1-4**
KRSC XII 05 22 28 11.5 54.95N 163.07E 9 4.3b **¶97xii1125**
ISC XII 05 22 34 13.2±.76 **53.79N**±.060 **161.5E**±.11 **38**±6.9 **4.2b**,4.9s **41 1-87**
MOS XII 05 22 34 12.8 53.8N 161.4E 36 4.8b **¶97xii1126**
KRSC XII 05 22 34 12.9 53.64N 161.57E 40 4.4b
NEIC XII 05 22 34 13.1 53.97N 161.45E 33 4.5b
EIDC XII 05 22 34 16.8±.65 53.9N 161.4E 50±5.1 4.0b,4.9s
EIDC Error ellipse is semi-major=17.1km semi-minor=11.7km azimuth=142Aftershock: abbreviated analysis
ISC XII 05 22 37 27.2±.57 **53.83N**±.035 **161.72E**±.042 **42**±5.0 **5.1b,4.8s** **335 1-150**
BJI XII 05 22 37 23.6 54.30N 161.24E 15 4.9b,4.9s **¶97xii1127**
KRSC XII 05 22 37 25.0 53.71N 162.10E 30 5.1b
MOS XII 05 22 37 25.8 53.8N 161.8E 33 5.6b
NEIC XII 05 22 37 26.2 53.88N 161.76E 33 5.2b,4.7s
EIDC XII 05 22 37 29.5±.81 54.0N 161.6E 47±6.6 4.7b,4.6s
EIDC Error ellipse is semi-major=16.1km semi-minor=10.3km azimuth=145Aftershock: abbreviated analysis
ISC XII 05 22 45 50±4.3 **53.9N**±.22 **161.7E**±.82 **37** **7 1-3**
KRSC XII 05 22 45 46.9 53.82N 162.20E 37 3.8b **¶97xii1130**
ISC XII 05 22 49 35.4±.79 **53.95N**±.074 **161.5E**±.12 **45**±8.2 **4.1b** **37 1-81**
MOS XII 05 22 49 30.5 54.8N 160.1E 20 5.2b **¶97xii1132**
NEIC XII 05 22 49 34.3 54.06N 161.50E 33 4.4b
KRSC XII 05 22 49 35.0 53.81N 161.56E 24 4.4b
EIDC XII 05 22 49 37.0±.66 53.9N 161.6E 42±5.9 3.9b
EIDC Error ellipse is semi-major=20.2km semi-minor=13.2km azimuth=151Aftershock: abbreviated analysis
ISC XII 05 23 02 58±5.6 **53.7N**±.28 **161.9E**±.91 **31** **11 1-5**
KRSC XII 05 23 02 57.8 53.73N 161.70E 31 3.8b **¶97xii1133**
ISC XII 05 23 06 18.7±.48 **53.79N**±.059 **161.9E**±.11 **33** **4.1b** **33 1-81**
KRSC XII 05 23 06 15.6 53.83N 161.62E 0 4.5b **¶97xii1134**
MOS XII 05 23 06 18.6 53.7N 161.9E 33 4.7b
NEIC XII 05 23 06 18.7 53.83N 161.90E 33 4.6b
EIDC XII 05 23 06 20.4±.73 53.8N 161.9E 34±4.7 3.9b,4.4L
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=21.3km semi-minor=14.9km azimuth=150Aftershock: abbreviated analysis

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
KRSC	**XII**	**05 23 08 17.4**	**53.66N**	**161.66E**	**40**	**3.5b**	**¶97xii1135**	
ISC	**XII**	**05 23 08 38**±1.6	**53.9N**±.13	**161.4E**±.23	**41**±15	**4.0b**	**19**	**1-81**
NEIC	XII	05 23 08 36.9	53.93N	161.44E	33	4.4b	**¶97xii1136**	
KRSC	XII	05 23 08 38.3	53.69N	161.56E	41	4.2b		
EIDC	XII	05 23 08 40.7±.77	53.8N	161.5E	49±7.3	3.8b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi-major=24.0km semi-minor=15.1km azimuth=136Aftershock: abbreviated analysis							
ISC	**XII**	**05 23 10 06**±1.5	**54.0N**±.12	**161.9E**±.29	**50**±15	**4.0b**	**12**	**1-69**
EIDC	XII	05 23 10 01.4±1.50	54.0N	161.9E	0	3.9b	**¶97xii1138**	
KRSC	XII	05 23 10 04.1	53.87N	162.09E	36	3.8b		
EIDC	Error ellipse is semi-major=54.3km semi-minor=25.9km azimuth=164Aftershock: abbreviated analysis							
ISC	**XII**	**05 23 11 54**±4.9	**53.7N**±.19	**161.2E**±.85	**80**±41		**9**	**1-4**
KRSC	XII	05 23 11 50.2	53.60N	161.83E	58	3.7b	**¶97xii1140**	
ISC	**XII**	**05 23 14 01**±1.7	**53.7N**±.12	**161.7E**±.28	**49**±14	**3.9b**	**14**	**1-81**
EIDC	XII	05 23 13 56.1±1.10	53.9N	161.5E	0	3.8b	**¶97xii1142**	
KRSC	XII	05 23 13 59.4	53.76N	161.30E	2	4.0b		
EIDC	Error ellipse is semi-major=37.8km semi-minor=25.3km azimuth=143Aftershock: abbreviated analysis							
ISC	**XII**	**05 23 16 58**±1.4	**53.81N**±.097	**162.0E**±.19	**42**±14	**4.0b**	**19**	**1-74**
EIDC	XII	05 23 16 54.9±1.17	54.0N	162.0E	0	4.0b,4.2L	**¶97xii1143**	
KRSC	XII	05 23 16 57.6	53.89N	161.60E	2	4.0b		
NEIC	XII	05 23 16 58.1	54.05N	161.99E	33	4.3b		
EIDC	Error ellipse is semi-major=39.0km semi-minor=17.6km azimuth=148Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**05 23 19 49**±1.1	**53.86N**±.073	**161.7E**±.17	**48**±8.4	**4.2b**	**32**	**1-81**
KRSC	XII	05 23 19 45.5	53.70N	162.07E	13	4.4b	**¶97xii1144**	
MOS	XII	05 23 19 47.9	53.9N	161.9E	33	4.8b		
NEIC	XII	05 23 19 48.3	54.04N	161.68E	33	4.7b		
EIDC	XII	05 23 19 50.8±.92	54.0N	161.8E	40±6.6	4.0b,3.6s		
EIDC	Error ellipse is semi-major=22.2km semi-minor=13.3km azimuth=133Aftershock: abbreviated analysis							
ISC	**XII**	**05 23 26 28**±1.1	**53.9N**±.30	**161.8E**±.38	**33**	**3.9b**	**6**	**24-60**
EIDC	XII	05 23 26 25.1±1.31	53.8N	161.8E	0	4.0b	**¶97xii1148**	
EIDC	Error ellipse is semi-major=56.0km semi-minor=20.0km azimuth=147Aftershock: abbreviated analysis							
ISC	**XII**	**05 23 28 53**±1.2	**53.9N**±.25	**161.6E**±.41	**33**	**3.7b**	**5**	**24-77**
EIDC	XII	05 23 28 49.3±1.16	53.8N	161.7E	0	3.7b	**¶97xii1149**	
EIDC	Error ellipse is semi-major=41.5km semi-minor=25.9km azimuth=134Aftershock: abbreviated analysis							
ISC	**XII**	**05 23 44 46**±4.6	**53.6N**±.23	**161.7E**±.72	**19**±17		**10**	**1-3**
KRSC	XII	05 23 44 44.9	53.61N	161.83E	23	3.9b	**¶97xii1152**	
ISC	**XII**	**05 23 47 00.1**±.87	**53.46N**±.078	**162.0E**±.13	**0**	**3.7b**	**17**	**1-69**
KRSC	XII	05 23 47 01.5	53.56N	161.73E	0	4.1b	**¶97xii1154**	
EIDC	XII	05 23 47 02.4±1.12	54.1N	161.5E	0	3.6b		
EIDC	Error ellipse is semi-major=102.4km semi-minor=20.4km azimuth=152Aftershock: abbreviated analysis							
ISC	**XII**	**05 23 52 14**±1.4	**53.6N**±.10	**161.8E**±.22	**55**±12	**3.7b**	**17**	**1-70**
KRSC	XII	05 23 52 10.2	53.54N	161.78E	6	4.0b	**¶97xii1156**	
EIDC	XII	05 23 52 14.4±1.13	53.8N	161.8E	32±7.9	3.5b		
EIDC	Error ellipse is semi-major=46.8km semi-minor=19.4km azimuth=165Aftershock: abbreviated analysis							
ISC	**XII**	**05 23 53 43**±1.1	**53.7N**±.10	**161.8E**±.19	**25**		**12**	**1-25**
KRSC	XII	05 23 53 42.7	53.68N	161.85E	25	4.3b	**¶97xii1157**	
ISC	**XII**	**05 23 57 20**±1.1	**53.67N**±.043	**161.84E**±.042	**25**±8.0	**5.0b,5.1s**	**216**	**1-162**
MOS	XII	05 23 57 19.7	53.6N	162.0E	33	5.2b	**¶97xii1158**	
NEIC	XII	05 23 57 20.9	53.73N	161.84E	33	5.1b,5.0s		
KRSC	XII	05 23 57 22.1	53.63N	161.73E	39	5.1b		
EIDC	XII	05 23 57 23.2±1.14	53.8N	161.7E	39±9.1	4.7b,5.1s		
EIDC	Error ellipse is semi-major=16.4km semi-minor=11.1km azimuth=149Aftershock: abbreviated analysis							
ISC	**XII**	**06 00 00 01**±4.6	**53.4N**±.30	**162.6E**±.63	**22**		**6**	**1-60**
KRSC	XII	06 00 00 06.0	53.64N	161.93E	22	3.9b	**¶97xii1162**	
ISC	**XII**	**06 00 05 26.9**±.62	**53.84N**±.043	**161.67E**±.055	**43**±5.8	**4.8b,5.2s**	**141**	**1-150**
BJI	XII	06 00 05 23.2	54.53N	161.35E	11	4.5b	**¶97xii1165**	
KRSC	XII	06 00 05 23.5	53.72N	162.04E	12	4.9b		
MOS	XII	06 00 05 25.5	53.9N	161.8E	33	5.3b		
NEIC	XII	06 00 05 26.0	53.93N	161.71E	33	5.0b		
EIDC	XII	06 00 05 31.0±4.35	53.9N	161.7E	62±40.3	4.4b,4.8L		
EIDC	Error ellipse is semi-major=18.2km semi-minor=12.1km azimuth=150Aftershock: abbreviated analysis							
ISC	**XII**	**06 00 10 54.0**±.66	**53.62N**±.073	**162.1E**±.11	**22**	**3.7b**	**20**	**1-69**
KRSC	XII	06 00 10 53.4	53.58N	162.12E	22	4.3b	**¶97xii1167**	
EIDC	XII	06 00 10 54.1±1.05	54.2N	161.6E	0	3.8b		
NEIC	XII	06 00 10 56.9	54.28N	161.58E	33			
EIDC	Error ellipse is semi-major=48.2km semi-minor=18.6km azimuth=149Aftershock: abbreviated analysis							
NEIC	Poor solution.							
ISC	**XII**	**06 00 21 40.4**±.60	**53.62N**±.042	**161.64E**±.059	**38**±5.0	**4.8b,5.4s**	**180**	**1-145**
BJI	XII	06 00 21 38.1	54.02N	160.92E	9	4.8b,5.7s	**¶97xii1171**	
MOS	XII	06 00 21 38.8	53.7N	161.5E	27	5.3b		
KRSC	XII	06 00 21 39.6	53.55N	161.83E	40	5.1b		
NEIC	XII	06 00 21 39.9	53.70N	161.68E	33	4.9b		
EIDC	XII	06 00 21 45.1±4.22	53.8N	161.5E	66±38.5	4.4b,5.1L		
EIDC	Error ellipse is semi-major=19.8km semi-minor=13.7km azimuth=146Aftershock: abbreviated analysis							
ISC	**XII**	**06 00 25 07.3**±.54	**53.67N**±.032	**161.50E**±.037	**40**±4.8	**5.2b,5.6s**	**398**	**1-162**
EIDC	XII	06 00 25 03.4±.49	53.8N	161.6E	0	4.9b,5.3s	**¶97xii1173**	
BJI	XII	06 00 25 04.3	54.01N	160.95E	14	5.2b,5.9s		
KRSC	XII	06 00 25 04.8	53.62N	161.78E	13	5.2b		
MOS	XII	06 00 25 06.3	53.8N	161.5E	33	5.5b		
NEIC	XII	06 00 25 06.7	53.73N	161.57E	33	5.3b,5.5s		
HRVD	XII	06 00 25 12.1±.3	53.72N±.04	161.76E±.05	30			
EIDC	Error ellipse is semi-major=16.7km semi-minor=11.1km azimuth=146Aftershock: abbreviated analysis							
NEIC	Mw5.8(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c50; Mantle waves: s2,c2; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}3.89±.12; $M_{\theta\theta}$0.36±.16; $M_{\phi\phi}$−4.25±.16; $M_{r\theta}$1.44±.30; $M_{r\phi}$2.12±.38; $M_{\theta\phi}$−0.92±.16. Principal Axes: T 4.74,Plg71°,Azm324°; N 0.32,Plg12°,Azm197°; P −5.06,Plg15°,Azm104°. Best double couple: $M_0$4.9×10^{17}Nm, NP1:ϕ_S177°,δ32°,λ67°. NP2:ϕ_S24°,δ61°,λ104°.							
ISC	**XII**	**06 00 35 14**±1.6	**53.6N**±.11	**161.6E**±.27	**52**±14	**3.7b**	**16**	**1-70**
EIDC	XII	06 00 35 10.4±1.36	53.9N	161.8E	0	3.8b	**¶97xii1176**	
KRSC	XII	06 00 35 11.2	53.76N	161.27E	0	4.1b		
NEIC	XII	06 00 35 13.7	54.06N	161.71E	33			
EIDC	Error ellipse is semi-major=41.4km semi-minor=26.9km azimuth=150Aftershock: abbreviated analysis							
NEIC	Poor solution.							
ISC	**XII**	**06 00 37 30**±2.5	**53.8N**±.17	**161.3E**±.47	**0**		**9**	**1-3**
KRSC	XII	06 00 37 26.4	53.70N	161.63E	0	4.0b	**¶97xii1177**	
KRSC	**XII**	**06 00 47 57.8**	**53.59N**	**161.79E**	**19**	**4.0b**	**¶97xii1179**	
ISC	**XII**	**06 00 51 54**±2.3	**53.7N**±.14	**161.8E**±.38	**48**±14	**4.0b**	**16**	**1-74**
EIDC	XII	06 00 51 50.9±2.29	53.9N	161.6E	0	4.0b	**¶97xii1180**	
KRSC	XII	06 00 51 52.3	53.50N	162.06E	47	4.1b		
NEIC	XII	06 00 51 54.0	53.98N	161.56E	33			
EIDC	Error ellipse is semi-major=71.2km semi-minor=23.2km azimuth=127							
NEIC	Poor solution.							
ISC	**XII**	**06 00 58 12**±1.0	**53.75N**±.095	**161.7E**±.18	**52**±9.6	**4.0b**	**26**	**1-74**
EIDC	XII	06 00 58 08.0±.96	53.9N	161.7E	0	4.0b,4.5L	**¶97xii1181**	
MOS	XII	06 00 58 09.4	53.8N	161.8E	23	4.7b		
KRSC	XII	06 00 58 10.4	53.67N	162.01E	33	4.4b		
NEIC	XII	06 00 58 11.0	53.97N	161.56E	33	4.5b		
EIDC	Error ellipse is semi-major=35.5km semi-minor=15.4km azimuth=147Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**06 01 12 19**±4.7	**53.8N**±.26	**161.5E**±.82	**0**		**8**	**1-4**
KRSC	XII	06 01 12 17.0	53.82N	161.55E	0	4.4b	**¶97xii1187**	
ISC	**XII**	**06 01 21 27**±2.3	**53.9N**±.31	**161.2E**±.65	**40**	**3.7b**	**12**	**1-70**
EIDC	XII	06 01 20 55.6±1.59	55.4N	163.4E	0	3.8b	**¶97xii1190**	
KRSC	XII	06 01 21 24.5	53.67N	161.77E	40	3.8b		
EIDC	Error ellipse is semi-major=50.4km semi-minor=24.1km azimuth=163Aftershock: abbreviated analysis							
ISC	**XII**	**06 01 25 40.0**±.69	**53.7N**±.18	**161.8E**±.23	**33**	**3.9b**	**13**	**24-77**
EIDC	XII	06 01 25 36.5±.84	53.7N	161.9E	0	3.9b	**¶97xii1193**	
NEIC	XII	06 01 25 39.8	53.75N	161.78E	33	4.2b		
EIDC	Error ellipse is semi-major=34.8km semi-minor=17.1km azimuth=145Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**06 01 32 16**±1.1	**53.78N**±.081	**161.7E**±.18	**50**±9.2	**3.9b**	**24**	**1-77**
EIDC	XII	06 01 32 10.8±.82	53.8N	161.7E	0	3.9b	**¶97xii1194**	
NEIC	XII	06 01 32 14.0	53.87N	161.72E	33	4.2b		
KRSC	XII	06 01 32 16.0	53.86N	161.36E	20	4.0b		
EIDC	Error ellipse is semi-major=25.1km semi-minor=16.3km azimuth=151Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**06 01 40 00.4**±.79	**53.39N**±.084	**162.9E**±.13	**2**	**3.9b**	**20**	**1-69**
NEIC	XII	06 01 40 05.3	53.51N	162.93E	33	4.6b	**¶97xii1195**	
EIDC	XII	06 01 40 06.2±1.04	53.5N	163.0E	21±6.2	3.7b		
KRSC	XII	06 01 40 08.5	53.71N	161.64E	2	4.3b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi-major=35.8km semi-minor=18.5km azimuth=143Aftershock: abbreviated analysis							
ISC	**XII**	**06 01 42 39.7**±.68	**53.76N**±.052	**161.5E**±.10	**52**±5.7	**4.3b**	**65**	**1-87**
KRSC	XII	06 01 42 37.8	53.78N	161.29E	4	4.6b	**¶97xii1196**	
NEIC	XII	06 01 42 38.3	53.97N	161.42E	33	4.5b		
MOS	XII	06 01 42 38.5	54.0N	161.4E	33	4.8b		
EIDC	XII	06 01 42 44.3±4.38	53.9N	161.5E	73±40.6	4.0b,3.9L		
EIDC	Error ellipse is semi-major=19.6km semi-minor=13.0km azimuth=146Aftershock: abbreviated analysis							
ISC	**XII**	**06 01 56 38**±1.3	**53.75N**±.078	**161.6E**±.20	**43**±9.8	**4.1b**	**29**	**1-77**
NEIC	XII	06 01 56 37.8	53.94N	161.44E	33	4.4b	**¶97xii1197**	
MOS	XII	06 01 56 38.9	54.0N	161.1E	33	4.6b		
KRSC	XII	06 01 56 39.1	53.84N	161.47E	45	4.3b		
EIDC	XII	06 01 56 41.4±7.10	53.6N	161.8E	54±67.1	3.8b,4.4L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi-major=29.9km semi-minor=16.8km azimuth=139Aftershock: abbreviated analysis							
ISC	**XII**	**06 01 58 01.2**±.74	**53.9N**±.14	**161.5E**±.21	**33**	**4.0b**	**19**	**14-74**
EIDC	XII	06 01 57 58.4±.94	54.0N	161.5E	0	4.0b,3.2L	**¶97xii1198**	
MOS	XII	06 01 57 59.1	53.4N	162.1E	33	4.8b		
NEIC	XII	06 01 58 01.0	53.88N	161.49E	33	4.6b		
EIDC	Error ellipse is semi-major=34.1km semi-minor=15.4km azimuth=148Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**06 02 00 07.4**±.80	**53.53N**±.078	**162.3E**±.13	**12**	**4.0b**,5.2s	**23**	**1-77**
EIDC	XII	06 02 00 11.0±.87	54.2N	161.9E	0	3.9b	**¶97xii1199**	
KRSC	XII	06 02 00 11.8	53.69N	161.60E	12	4.2b		
MOS	XII	06 02 00 13.3	54.1N	161.4E	33	4.6b		
NEIC	XII	06 02 00 13.8	54.21N	162.01E	33	4.5b		
EIDC	Error ellipse is semi-major=31.8km semi-minor=19.1km azimuth=136Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**06 02 16 00**±1.9	**53.9N**±.30	**161.2E**±.62	**40**	**3.7b**	**16**	**1-70**
EIDC	XII	06 02 14 52.6±1.11	54.0N	161.7E	0	3.8b	**¶97xii1204**	
NEIC	XII	06 02 14 55.8	54.13N	161.69E	33			
KRSC	XII	06 02 15 57.2	53.67N	161.87E	40	4.0b		
EIDC	Error ellipse is semi-major=39.5km semi-minor=19.6km azimuth=160Aftershock: abbreviated analysis							
NEIC	Single network solution.							
ISC	**XII**	**06 02 21 22.6**±.90	**53.57N**±.079	**162.2E**±.14	**6**	**3.7b**	**13**	**1-69**
EIDC	XII	06 02 21 21.8±4.64	53.6N	161.7E	0	3.6b	**¶97xii1205**	
KRSC	XII	06 02 21 27.2	53.80N	161.49E	6	4.0b		
EIDC	Error ellipse is semi-major=122.9km semi-minor=38.3km azimuth=18Aftershock: abbreviated analysis							
ISC	**XII**	**06 02 23 08**±1.5	**53.6N**±.11	**161.7E**±.27	**55**±16	**3.7b**	**16**	**1-70**
EIDC	XII	06 02 23 03.9±4.02	53.8N	161.8E	0	3.7b	**¶97xii1206**	
KRSC	XII	06 02 23 06.2	53.57N	161.96E	26	3.8b		
NEIC	XII	06 02 23 06.8	53.85N	161.75E	33			
EIDC	Error ellipse is semi-major=98.4km semi-minor=33.1km azimuth=14Aftershock: abbreviated analysis							
NEIC	Less reliable solution.							
ISC	**XII**	**06 02 27 59**±1.5	**53.6N**±.10	**161.6E**±.26	**47**±12	**3.8b**	**21**	**1-77**
KRSC	XII	06 02 27 56.7	53.61N	161.84E	22	4.0b	**¶97xii1208**	
EIDC	XII	06 02 27 58.1±1.15	54.3N	162.1E	0	3.9b		
NEIC	XII	06 02 28 01.4	54.37N	161.93E	33			
EIDC	Error ellipse is semi-major=34.6km semi-minor=21.0km azimuth=145Aftershock: abbreviated analysis							
NEIC	Poor solution.							
ISC	**XII**	**06 02 40 30.0**±.77	**53.94N**±.052	**161.5E**±.12	**45**±6.3	**4.3b**	**57**	**1-86**
MOS	XII	06 02 40 26.8	54.0N	161.6E	18	4.9b	**¶97xii1210**	
KRSC	XII	06 02 40 28.6	53.93N	161.35E	9	4.6b		
NEIC	XII	06 02 40 28.9	54.05N	161.48E	33	4.5b		
EIDC	XII	06 02 40 34.9±6.57	54.1N	161.4E	74±61.6	4.0b,4.7L		
EIDC	Error ellipse is semi-major=22.1km semi-minor=16.1km azimuth=135Aftershock: abbreviated analysis							
KRSC	**XII**	**06 02 42 58.5**	**53.73N**	**161.50E**	**1**	**3.8b**	**¶97xii1213**	

ISC XII 06 02 56 42±1.3 **53.9N**±.11 **161.8E**±.24 **48**±12 **3.8b** **20 1-77**
EIDC XII 06 02 56 37.8±.94 54.0N 161.7E 0 3.8b **¶97xii1216**
KRSC XII 06 02 56 39.1 53.73N 162.23E 21 4.1b
NEIC XII 06 02 56 41.0 54.13N 161.65E 33 4.4b
EIDC Error ellipse is semi−major=31.3km semi−minor=21.9km azimuth=146Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 06 02 58 18±3.4 **53.8N**±.38 **161.3E**±.82 **41** **7 1-3**
KRSC XII 06 02 58 15.4 53.59N 161.88E 41 3.9b **¶97xii1217**
KRSC XII 06 03 14 40.1 53.76N 161.59E 9 4.0b ¶97xii1221
ISC XII 06 03 20 01±1.2 **53.77N**±.086 **161.7E**±.19 **43**±12 **3.9b** **21 1-69**
EIDC XII 06 03 19 57.9±1.02 53.9N 161.8E 0 3.9b **¶97xii1223**
KRSC XII 06 03 19 58.5 53.80N 161.49E 0 4.2b
NEIC XII 06 03 20 00.9 54.01N 161.73E 33 4.0b
EIDC Error ellipse is semi−major=33.5km semi−minor=17.6km azimuth=151Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 06 03 21 43.2±.88 **53.73N**±.072 **161.5E**±.14 **56**±8.1 **4.1b** **34 1-86**
KRSC XII 06 03 21 40.3 53.59N 161.91E 30 4.4b **¶97xii1224**
MOS XII 06 03 21 41.3 53.7N 161.7E 33 4.6b
NEIC XII 06 03 21 41.6 53.94N 161.44E 33 4.2b
EIDC XII 06 03 21 48.6±4.98 53.9N 161.6E 86±45.6 3.8b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=24.2km semi−minor=17.0km azimuth=145Aftershock: abbreviated analysis
ISC XII 06 03 26 46.8±.76 **53.72N**±.090 **162.0E**±.14 **19** **3.6b** **17 1-77**
KRSC XII 06 03 26 44.5 53.69N 162.34E 19 3.9b **¶97xii1225**
EIDC XII 06 03 26 49.2±.84 52.8N 162.7E 23±4.6 3.5b
EIDC Error ellipse is semi−major=32.4km semi−minor=19.0km azimuth=162Aftershock: abbreviated analysis
KRSC XII 06 03 30 45.9 53.65N 162.09E 21 4.0b ¶97xii1226
KRSC XII 06 03 44 58.6 53.32N 162.25E 40 3.7b ¶97xii1231
EIDC XII 06 03 54 47.0±6.92 **55.3N 163.9E 0 3.4b 26-59 ¶97xii1237**
EIDC Error ellipse is semi−major=169.3km semi−minor=42.2km azimuth=12
ISC XII 06 04 08 58±1.2 **53.80N**±.079 **161.6E**±.19 **40**±11 **3.9b**,4.4s **24 1-77**
MOS XII 06 04 08 57.3 53.9N 161.4E 33 4.5b **¶97xii1242**
NEIC XII 06 04 08 57.3 53.93N 161.51E 33 4.2b
KRSC XII 06 04 08 57.4 53.83N 161.33E 8 4.3b
EIDC XII 06 04 09 01.8±1.06 53.8N 161.6E 60±10.7 3.6b,4.4s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=30.0km semi−minor=16.0km azimuth=142
ISC XII 06 04 19 03.4±.90 **53.79N**±.065 **161.8E**±.13 **50**±7.6 **4.1b** **37 1-86**
KRSC XII 06 04 18 59.2 53.60N 162.34E 32 4.4b **¶97xii1247**
MOS XII 06 04 19 01.2 53.7N 161.9E 33 4.8b
NEIC XII 06 04 19 01.8 53.85N 161.95E 33 4.5b
EIDC XII 06 04 19 07.6±4.73 53.9N 161.9E 69±43.5 3.8b,4.0L
EIDC Error ellipse is semi−major=24.8km semi−minor=14.5km azimuth=144Aftershock: abbreviated analysis
ISC XII 06 04 51 43.0±.86 **53.71N**±.061 **161.6E**±.12 **36**±8.1 **4.1b** **44 1-126**
KRSC XII 06 04 51 41.9 53.62N 161.77E 40 4.5b **¶97xii1252**
MOS XII 06 04 51 42.7 53.9N 161.3E 35 4.8b
BJI XII 06 04 51 42.7 53.80N 161.50E 33 4.2b
NEIC XII 06 04 51 42.7 53.88N 161.49E 33 4.3b
EIDC XII 06 04 51 45.5±7.76 53.8N 161.5E 41±72.1 3.9b
EIDC Error ellipse is semi−major=23.3km semi−minor=13.5km azimuth=139Aftershock: abbreviated analysis
ISC XII 06 04 56 02±1.0 **53.71N**±.064 **161.8E**±.14 **38**±10 **4.0b** **36 1-77**
KRSC XII 06 04 55 58.6 53.59N 162.21E 20 4.6b **¶97xii1254**
MOS XII 06 04 56 01.1 53.7N 161.9E 27 4.5b
NEIC XII 06 04 56 01.9 53.70N 161.86E 33 4.4b
EIDC XII 06 04 56 05.8±.96 53.8N 161.8E 54±8.3 3.8b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=27.8km semi−minor=15.5km azimuth=159Aftershock: abbreviated analysis
ISC XII 06 05 05 46.2±.75 **53.74N**±.053 **161.76E**±.097 **48**±6.9 **4.3b** **59 1-87**
KRSC XII 06 05 05 43.1 53.63N 162.18E 32 4.5b **¶97xii1256**
MOS XII 06 05 05 44.6 53.7N 161.9E 31 4.8b
NEIC XII 06 05 05 44.7 53.79N 161.81E 33 4.5b
EIDC XII 06 05 05 50.6±4.66 53.9N 161.7E 69±43.3 4.1b,3.5L
EIDC Error ellipse is semi−major=21.6km semi−minor=13.2km azimuth=143Aftershock: abbreviated analysis
ISC XII 06 05 15 46.7±.52 **53.9N**±.16 **161.8E**±.17 **21** **4.1b**,5.2s **23 1-69**
KRSC XII 06 05 15 46.0 53.67N 162.05E 21 4.1b **¶97xii1258**
NEIC XII 06 05 15 48.1 53.89N 161.79E 33 4.2b
BJI XII 06 05 15 48.5 54.06N 161.45E 23 4.7b,5.5s
EIDC XII 06 05 15 49.7±.86 53.8N 162.0E 31±6.5 3.9b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=37.4km semi−minor=15.7km azimuth=152
ISC XII 06 05 43 16±1.4 **53.53N**±.057 **161.94E**±.079 **19**±10 **4.3b,4.6s** **77 1-86**
KRSC XII 06 05 43 13.7 53.44N 162.20E 14 4.9b **¶97xii1263**
BJI XII 06 05 43 16.8 54.40N 161.67E 23 4.6b,5.0s
MOS XII 06 05 43 18.0 53.4N 162.0E 33 4.8b
NEIC XII 06 05 43 18.0 53.56N 161.95E 33 4.5b
EIDC XII 06 05 43 20.6±.83 53.7N 161.9E 42±7.5 4.0b,4.5s
EIDC Error ellipse is semi−major=22.8km semi−minor=13.2km azimuth=147
ISC XII 06 06 00 17±1.3 **53.7N**±.21 **161.6E**±.38 **33** **3.8b** **8 24-74**
EIDC XII 06 06 00 13.8±1.41 53.6N 161.7E 0 3.8b **¶97xii1267**
NEIC XII 06 06 00 17.0 53.72N 161.62E 33
EIDC Error ellipse is semi−major=43.3km semi−minor=25.4km azimuth=136
NEIC Poor solution.
ISC XII 06 06 04 01±2.6 **53.6N**±.10 **162.0E**±.18 **16**±19 **3.8b** **23 1-69**
EIDC XII 06 06 04 00.5±1.08 53.8N 161.9E 0 3.8b **¶97xii1270**
KRSC XII 06 06 04 02.5 53.70N 161.67E 9 4.2b
MOS XII 06 06 04 03.2 53.8N 161.7E 33 4.6b
NEIC XII 06 06 04 03.5 53.84N 161.82E 33 4.5b
EIDC Error ellipse is semi−major=43.3km semi−minor=17.8km azimuth=154
NEIC Less reliable solution.
ISC XII 06 06 17 50.2±.85 **53.73N**±.063 **161.6E**±.12 **45**±7.9 **4.3b** **46 1-86**
KRSC XII 06 06 17 47.6 53.54N 161.99E 33 4.4b **¶97xii1272**
MOS XII 06 06 17 48.5 53.8N 161.7E 28 4.7b
NEIC XII 06 06 17 49.2 53.83N 161.65E 33 4.5b
EIDC XII 06 06 17 58.3±5.71 54.2N 161.8E 80±48.0 4.0b,3.7L
EIDC Aftershock: abbreviated analysis
ISC XII 06 06 18 43±3.7 **53.8N**±.26 **161.5E**±.79 **50** 4.4b **8 1-24**
KRSC XII 06 06 18 40.9 53.78N 161.81E 50 4.2b **¶97xii1273**
ISC XII 06 06 46 38±1.3 **53.78N**±.091 **161.7E**±.20 **42**±13 **3.9b** **22 1-81**
EIDC XII 06 06 46 33.9±.92 53.9N 161.7E 0 4.0b **¶97xii1279**
KRSC XII 06 06 46 35.0 53.76N 161.60E 0 4.2b
NEIC XII 06 06 46 37.2 54.09N 161.48E 33 4.1b
EIDC Error ellipse is semi−major=35.5km semi−minor=20.0km azimuth=140
NEIC Less reliable solution.
ISC XII 06 06 52 08.5±.74 **53.77N**±.055 **161.6E**±.10 **43**±6.6 **4.4b**,4.9s **69 1-87**
BJI XII 06 06 52 06.1 54.20N 160.66E 8 4.2b **¶97xii1282**
KRSC XII 06 06 52 06.5 53.62N 161.96E 34 4.7b
MOS XII 06 06 52 06.8 53.8N 161.7E 26 4.9b
NEIC XII 06 06 52 07.5 53.85N 161.57E 33 4.6b
EIDC XII 06 06 52 11.3±6.12 53.8N 161.6E 51±58.0 4.1b,4.6L
EIDC Error ellipse is semi−major=20.9km semi−minor=13.0km azimuth=140
ISC XII 06 07 10 27±1.9 **53.9N**±.16 **162.7E**±.18 **16** **5 1-3**
KRSC XII 06 07 10 28.9 54.09N 162.63E 16 3.9b **¶97xii1287**
KRSC Felt I=II−III M. Shipunskiy
ISC XII 06 07 33 05±1.4 **53.74N**±.084 **161.3E**±.27 **65**±12 **3.8b** **18 1-81**
EIDC XII 06 07 32 58.8±.93 53.8N 161.5E 0 3.9b **¶97xii1292**
NEIC XII 06 07 33 01.9 53.91N 161.36E 33
KRSC XII 06 07 33 02.2 53.81N 161.27E 4 4.1b
EIDC Error ellipse is semi−major=37.8km semi−minor=24.0km azimuth=113
NEIC Less reliable solution.
ISC XII 06 07 41 29±3.2 **53.7N**±.21 **161.4E**±.58 **18** **7 1-2**
KRSC XII 06 07 41 30.4 53.79N 161.25E 18 3.7b **¶97xii1293**
ISC XII 06 07 54 24.3±.67 **53.64N**±.050 **161.67E**±.069 **46**±6.2 **4.6b,5.0s** **92 1-145**
EIDC XII 06 07 54 19.6±.61 53.7N 161.7E 0 4.6b,5.3L **¶97xii1299**
KRSC XII 06 07 54 21.1 53.49N 162.21E 37 4.7b
BJI XII 06 07 54 21.8 53.60N 161.70E 33 4.8b,5.2s
MOS XII 06 07 54 22.6 53.6N 161.8E 33 5.0b
NEIC XII 06 07 54 23.2 53.69N 161.74E 33 4.7b
EIDC Error ellipse is semi−major=19.9km semi−minor=12.7km azimuth=138
ISC XII 06 08 20 56±4.3 **54.6N**±.11 **163.0E**±.61 **15** **9 1-3**
KRSC XII 06 08 20 56.0 54.66N 163.06E 15 3.7b **¶97xii1305**
ISC XII 06 08 41 43±1.9 **53.9N**±.15 **161.3E**±.39 **1** **8 1-2**
KRSC XII 06 08 41 40.4 53.82N 161.70E 1 3.9b **¶97xii1314**
ISC XII 06 09 03 28.4±.78 **53.75N**±.058 **161.56E**±.097 **44**±7.3 **4.2b** **53 1-86**
KRSC XII 06 09 03 26.3 53.62N 161.81E 34 4.6b **¶97xii1319**
MOS XII 06 09 03 26.6 53.8N 161.6E 28 4.8b
NEIC XII 06 09 03 27.3 53.81N 161.61E 33 4.5b
EIDC XII 06 09 03 31.0±.93 53.8N 161.6E 52±7.7 4.0b
EIDC Error ellipse is semi−major=20.0km semi−minor=12.4km azimuth=143
ISC XII 06 09 10 02±2.6 **54.7N**±.13 **163.3E**±.21 **17**±28 **9 1-4**
KRSC XII 06 09 10 02.7 54.73N 163.23E 21 4.1b **¶97xii1324**
ISC XII 06 09 14 16.1±.86 **53.94N**±.071 **161.8E**±.12 **51**±8.0 **4.3b** **42 1-86**
KRSC XII 06 09 14 11.6 53.76N 161.75E 0 4.5b **¶97xii1328**
NEIC XII 06 09 14 14.3 54.05N 161.76E 33 4.5b
MOS XII 06 09 14 14.4 54.0N 161.8E 33 4.6b
EIDC XII 06 09 14 18.0±1.52 53.9N 161.8E 53±14.2 4.0b,4.5L
EIDC Error ellipse is semi−major=23.1km semi−minor=13.3km azimuth=142
ISC XII 06 09 20 36±1.9 **53.7N**±.15 **161.6E**±.38 **43**±19 **3.6b** **16 1-81**
KRSC XII 06 09 20 35.0 53.80N 161.43E 12 4.1b **¶97xii1332**
EIDC XII 06 09 21 32.3 54.3N 161.0E 606±151.0 2.7b
EIDC Origin time error = 10.92Error ellipse is semi−major=93.5km semi−minor=26.0km azimuth=155
ISC XII 06 09 45 56±1.8 **53.9N**±.27 **161.2E**±.57 **32** **9 1-5**
KRSC XII 06 09 45 55.4 53.83N 161.47E 32 3.8b **¶97xii1338**
ISC XII 06 09 48 27±1.9 **53.9N**±.27 **161.3E**±.59 **32** **9 1-5**
KRSC XII 06 09 48 26.3 53.84N 161.47E 32 3.8b **¶97xii1341**
KRSC XII 06 09 51 32.5 53.77N 161.66E 8 3.9b ¶97xii1343
ISC XII 06 10 05 05.1±.52 **53.92N**±.030 **161.88E**±.036 **38**±4.6 **5.3b,5.5s** **447 1-163**
KRSC XII 06 10 05 00.2 53.78N 162.42E 13 5.5b **¶97xii1349**
BJI XII 06 10 05 02.9 54.60N 161.22E 14 5.1b,5.9s
NEIC XII 06 10 05 04.5 53.96N 161.93E 33 5.4b,5.4s
MOS XII 06 10 05 04.7 53.9N 161.9E 39 5.7b
EIDC XII 06 10 05 07.8±.85 54.1N 161.9E 49±7.9 4.9b,5.4s
HRVD XII 06 10 05 10.1±.2 53.64N±.03 162.36E±.04 19±1.5
NEIC Mw5.7(HRV).
EIDC Error ellipse is semi−major=18.9km semi−minor=10.6km azimuth=142
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c61; Half duration: 1ś6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.64±.05; $M_{\theta\theta}$−0.45±.06; $M_{\phi\phi}$−2.19±.06; $M_{r\theta}$1.54±.18; $M_{r\phi}$1.90±.21; $M_{\theta\phi}$−1.23±.06. Principal Axes: T 3.61,Plg68°,Azm319°; N 0.13, Plg6°,Azm213°; P −3.73,Plg21°,Azm120°. Best double couple: $M_0$3.7×10^{17}Nm, NP1: ϕ_S198°,δ25°,λ75°. NP2:ϕ_S35°,δ66°,λ97°.
ISC XII 06 10 13 02±3.5 **53.8N**±.13 **161.9E**±.40 **4**±20 **11 1-5**
KRSC XII 06 10 13 01.4 53.87N 161.80E 3 4.1b **¶97xii1352**
ISC XII 06 10 14 43±1.5 **53.8N**±.15 **162.3E**±.20 **3** **5 1-3**
KRSC XII 06 10 14 44.7 53.83N 162.04E 3 4.0b **¶97xii1353**
KRSC Felt I=III−IV M. Shipunskiy
KRSC XII 06 10 25 41.5 53.78N 162.38E 32 3.9b ¶97xii1358
KRSC XII 06 10 33 46.7±.72 **53.70N**±.078 **162.1E**±.12 **0** **4.0b** **13 1-56**
KRSC XII 06 10 33 50.3 53.88N 161.43E 0 4.1b **¶97xii1361**
NEIC XII 06 10 33 50.9 53.81N 161.90E 33 4.1b
NEIC Poor solution.
ISC XII 06 10 36 55±1.4 **53.72N**±.092 **161.9E**±.22 **39**±15 **3.8b** **21 1-69**
EIDC XII 06 10 36 51.6±1.08 54.0N 161.9E 0 3.8b **¶97xii1364**
KRSC XII 06 10 36 54.4 53.81N 161.48E 0 4.1b
NEIC XII 06 10 36 54.7 54.09N 161.69E 33 4.3b
EIDC Error ellipse is semi−major=45.8km semi−minor=19.9km azimuth=151
NEIC Poor solution.
ISC XII 06 10 43 12.8±.79 **53.92N**±.054 **162.0E**±.11 **40**±6.8 **4.2b** **57 1-86**
KRSC XII 06 10 43 11.3 53.91N 161.84E 8 4.7b **¶97xii1368**
NEIC XII 06 10 43 12.5 54.11N 161.94E 33 4.6b
MOS XII 06 10 43 12.6 54.1N 161.8E 33 4.7b
EIDC XII 06 10 43 20.7±.68 54.1N 161.9E 95±6.3 3.9b
EIDC Error ellipse is semi−major=23.3km semi−minor=11.4km azimuth=150
ISC XII 06 10 59 09.6±.91 **53.95N**±.025 **161.87E**±.030 **29**±6.4 **5.6b,6.1s** **635 1-163**
EIDC XII 06 10 59 06.8±.45 54.1N 161.8E 0 5.5b,5.9s **¶97xii1372**
KRSC XII 06 10 59 07.6 53.85N 162.03E 7 5.8b
BJI XII 06 10 59 09.0 54.26N 161.66E 32 5.5b,6.4s
MOS XII 06 10 59 10.0 53.9N 161.9E 36 6.0b
NEIC XII 06 10 59 10.0 53.97N 161.91E 33 5.7b,5.8s
HRVD XII 06 10 59 14.9±.1 53.85N±.01 162.29E±.02 18
EIDC Error ellipse is semi−major=15.1km semi−minor=9.6km azimuth=147
MOS Seismic moment Mo=8.1×10^{18}Nm (after OBN)
NEIC Mw6.6(OBN), Me5.7(GS).
NEIC Mw 6.1 (HRV), 5.9 (GS). Mo=8.1×10^{18}Nm (OBN).
NEIC Radiated energy from the P−wave first−motion solution: 9.1±2.4×10^{12}Nm/13
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S210°,δ25°,λ75°. NP2:ϕ_S46°,δ66°,λ97°. Principal axes: T Plg68°,Azm330°; P Plg21°,Azm131°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s35, scale 10^{17}Nm; M_{rr}6.41; $M_{\theta\theta}$0.74; $M_{\phi\phi}$−7.14; $M_{r\theta}$3.35; $M_{r\phi}$4.38; $M_{\theta\phi}$−1.97. Depth 23km; Principal axes: T 8.65,Plg67°,Azm328°; N 0.63,Plg14°,Azm202°; P −9.27,Plg18°,Azm107°. Best double couple: $M_0$9.0×10^{17}Nm; NP1:ϕ_S176°,δ29°,λ60°. NP2: ϕ_S29°,δ65°,λ106°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c83; Mantle waves: s26,c44; Half duration: 2ś7. Moment tensor: Scale 10^{18}Nm; M_{rr}1.15±.01;

Agency	mo	Origin Time d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °	
$M_{\theta\theta}$−0.31±.01; $M_{\phi\phi}$−0.84±.01; $M_{r\theta}$0.72±.04; $M_{r\phi}$0.71±.04; $M_{\theta\phi}$−0.56±.01. Principal Axes: T 1.54,Plg69°,Azm325°; N 0.02,Plg7°,Azm218°; P −1.56,Plg20°,Azm125°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S204°,δ26°,λ75°. NP2:ϕ_S41°,δ65°,λ97°.											
ISC	**XII**	**06**	**11**	**04**	**48**±1.2	**53.85N**±.068	**162.0E**±.17	**35**±10	**4.4b**	**32**	**1-81**	
KRSC	XII	06	11	04	44.9	53.78N	161.98E	0	4.9b			**¶97xii1375**
EIDC	XII	06	11	04	45.4±.87	53.8N	162.1E	0	4.4b			
NEIC	XII	06	11	04	48.4	53.93N	161.98E	33	4.7b			
MOS	XII	06	11	04	48.7	53.8N	162.0E	33	4.9b			
BJI	XII	06	11	04	50.4	53.90N	161.90E	33	5.2b			
EIDC	Error ellipse is semi−major=25.9km semi−minor=16.2km azimuth=140											
NEIC	Less reliable solution.											
ISC	**XII**	**06**	**11**	**16**	**40.7**±.74	**54.0N**±.11	**162.1E**±.16	**29**	**3.7b**	**13**	**1-69**	
KRSC	XII	06	11	16	38.4	53.89N	162.35E	29	4.0b			**¶97xii1379**
EIDC	XII	06	11	16	42.6±1.29	54.5N	162.8E	0	3.8b			
NEIC	XII	06	11	16	45.5	54.55N	162.81E	33				
EIDC	Error ellipse is semi−major=51.0km semi−minor=25.8km azimuth=151											
NEIC	Poor solution.											
KRSC	**XII**	**06**	**11**	**19**	**06.6**	**53.90N**	**162.28E**	**29**	**3.7b**			**¶97xii1380**
ISC	**XII**	**06**	**11**	**21**	**38.3**±.72	**53.91N**±.050	**161.92E**±.093	**44**±6.4	**4.4b**	**67**	**1-86**	
KRSC	XII	06	11	21	33.8	53.83N	162.04E	0	4.7b			**¶97xii1381**
EIDC	XII	06	11	21	34.1±.61	54.0N	161.9E	0	4.3b,4.9L			
MOS	XII	06	11	21	37.0	53.9N	162.0E	31	5.0b			
BJI	XII	06	11	21	37.3	54.00N	161.90E	33	4.3b			
NEIC	XII	06	11	21	37.3	54.03N	161.95E	33	4.7b			
EIDC	Error ellipse is semi−major=22.5km semi−minor=12.4km azimuth=141											
NEIC	Less reliable solution.											
KRSC	**XII**	**06**	**11**	**41**	**02.3**	**53.90N**	**161.77E**	**0**	**3.9b**			**¶97xii1386**
ISC	**XII**	**06**	**11**	**45**	**46.9**±.72	**53.83N**±.067	**162.4E**±.12	**1**	**3.6b**	**17**	**1-69**	
KRSC	XII	06	11	45	48.9	53.92N	161.84E	1	3.9b			**¶97xii1387**
EIDC	XII	06	11	45	57.1±1.42	54.8N	162.3E	41±12.9	3.4b			
EIDC	Error ellipse is semi−major=105.5km semi−minor=21.6km azimuth=152											
ISC	**XII**	**06**	**11**	**48**	**21**±2.6	**53.9N**±.12	**162.0E**±.41	**0**		**10**	**1-3**	
KRSC	XII	06	11	48	20.7	53.90N	161.90E	0	3.9b			**¶97xii1389**
ISC	**XII**	**06**	**12**	**08**	**42**±3.4	**53.7N**±.13	**162.1E**±.23	**16**±25	**3.5b**	**12**	**1-69**	
KRSC	XII	06	12	08	41.5	53.78N	161.89E	6	3.7b			**¶97xii1392**
EIDC	XII	06	12	08	41.6±1.71	54.1N	161.8E	0	3.4b			
EIDC	Error ellipse is semi−major=143.5km semi−minor=26.5km azimuth=158Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**12**	**10**	**55**±1.5	**53.61N**±.099	**161.8E**±.22	**38**±14	**3.7b**	**20**	**1-81**	
EIDC	XII	06	12	10	51.9±.92	53.7N	161.8E	0	3.8b,4.3L			**¶97xii1393**
KRSC	XII	06	12	10	52.3	53.65N	161.79E	1	4.0b			
NEIC	XII	06	12	10	54.9	53.88N	161.67E	33				
EIDC	Error ellipse is semi−major=47.8km semi−minor=16.0km azimuth=150Aftershock: abbreviated analysis											
NEIC	Less reliable solution.											
ISC	**XII**	**06**	**12**	**14**	**59**±3.0	**53.8N**±.13	**162.2E**±.21	**20**±22	**3.7b**	**17**	**1-69**	
KRSC	XII	06	12	14	58.5	53.84N	161.79E	0	3.8b			**¶97xii1394**
NEIC	XII	06	12	15	01.4	54.08N	162.07E	33	4.3b			
EIDC	XII	06	12	15	02.1±.74	53.9N	162.1E	25±4.2	3.6b,4.0s			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=41.3km semi−minor=11.9km azimuth=155Aftershock: abbreviated analysis											
KRSC	**XII**	**06**	**12**	**15**	**06.6**	**53.88N**	**161.92E**	**0**	**4.1b**			**¶97xii1395**
ISC	**XII**	**06**	**12**	**17**	**41**±1.2	**53.92N**±.070	**162.1E**±.15	**34**±12	**3.8b**	**26**	**1-81**	
KRSC	XII	06	12	17	38.4	53.90N	162.02E	6	4.3b			**¶97xii1398**
NEIC	XII	06	12	17	40.5	54.00N	162.10E	33	4.3b			
EIDC	XII	06	12	17	43.5±4.51	53.9N	162.1E	46±44.4	3.6b,4.0L			
EIDC	Error ellipse is semi−major=29.0km semi−minor=15.6km azimuth=146Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**12**	**29**	**24.9**±.89	**53.70N**±.062	**161.6E**±.13	**42**±8.0	**4.1b**	**39**	**1-86**	
MOS	XII	06	12	29	22.5	53.7N	161.6E	25	4.5b			**¶97xii1401**
KRSC	XII	06	12	29	23.2	53.63N	161.67E	28	4.4b			
NEIC	XII	06	12	29	24.0	53.77N	161.60E	33	4.2b			
EIDC	XII	06	12	29	27.4±.52	53.7N	161.6E	46±4.6	3.9b			
EIDC	Error ellipse is semi−major=17.8km semi−minor=10.7km azimuth=143											
ISC	**XII**	**06**	**12**	**35**	**10**±4.1	**54.0N**±.22	**161.9E**±.75	**61**		**6**	**1-2**	
KRSC	XII	06	12	35	06.5	53.89N	162.47E	61	3.9b			**¶97xii1404**
ISC	**XII**	**06**	**12**	**35**	**57.5**±.79	**53.76N**±.055	**161.6E**±.11	**47**±6.8	**4.1b**,5.9s	**48**	**1-99**	
KRSC	XII	06	12	35	54.1	53.69N	161.60E	1	4.7b			**¶97xii1405**
BJI	XII	06	12	35	55.6	54.39N	160.66E	4	4.8b			
MOS	XII	06	12	35	55.9	53.8N	161.6E	33	4.5b			
NEIC	XII	06	12	35	55.9	53.86N	161.53E	33	4.5b			
EIDC	XII	06	12	35	58.3±.54	53.8N	161.6E	36±4.4	3.9b,4.8L			
EIDC	Error ellipse is semi−major=15.8km semi−minor=10.3km azimuth=151Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**12**	**43**	**31.6**±.62	**53.61N**±.036	**161.60E**±.058	**42**±5.2	**5.0b**,5.5s	**212**	**1-150**	
KRSC	XII	06	12	43	29.1	53.61N	161.64E	6	5.3b			**¶97xii1407**
BJI	XII	06	12	43	29.2	53.99N	161.03E	18	4.9b,5.4s			
MOS	XII	06	12	43	30.3	53.7N	161.7E	30	5.5b			
NEIC	XII	06	12	43	30.6	53.64N	161.63E	33	5.2b			
EIDC	XII	06	12	43	33.3±.42	53.7N	161.6E	39±3.4	4.6b,5.5L			
KRSC	Felt I=II M. Shipunskiy											
EIDC	Error ellipse is semi−major=14.4km semi−minor=9.1km azimuth=147											
ISC	**XII**	**06**	**12**	**44**	**57**±2.0	**53.9N**±.27	**161.2E**±.59	**49**±14	4.8b	**9**	**1-59**	
KRSC	XII	06	12	44	53.5	53.68N	161.60E	4	4.4b			**¶97xii1408**
ISC	**XII**	**06**	**12**	**50**	**56**±1.1	**53.62N**±.096	**161.5E**±.21	**0**	**4.0b**	**16**	**1-74**	
KRSC	XII	06	12	50	55.5	53.65N	161.44E	0	4.0b			**¶97xii1411**
EIDC	XII	06	12	50	57.1±1.42	54.1N	160.9E	0	3.9b,4.3L			
NEIC	XII	06	12	51	00.1	54.08N	160.83E	33	4.3b			
EIDC	Error ellipse is semi−major=43.4km semi−minor=23.4km azimuth=140Aftershock: abbreviated analysis											
NEIC	Less reliable solution.											
ISC	**XII**	**06**	**12**	**57**	**34**±1.2	**53.75N**±.087	**161.7E**±.17	**40**±10	**3.9b**	**23**	**1-81**	
KRSC	XII	06	12	57	32.2	53.66N	161.92E	37	4.2b			**¶97xii1413**
NEIC	XII	06	12	57	33.8	53.81N	161.66E	33	4.2b			
EIDC	XII	06	12	57	35.8±.66	53.7N	161.8E	35±4.5	3.7b,4.1L			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=20.9km semi−minor=13.4km azimuth=141Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**13**	**00**	**07**±2.4	**53.8N**±.15	**161.3E**±.46	**13**		**8**	**1-2**	
KRSC	XII	06	13	00	06.8	53.83N	161.24E	13	3.7b			**¶97xii1415**
ISC	**XII**	**06**	**13**	**03**	**48**±1.1	**53.94N**±.062	**162.0E**±.14	**34**±9.9	**3.9b**	**34**	**1-86**	
KRSC	XII	06	13	03	45.0	53.86N	161.78E	0	4.4b			**¶97xii1417**
MOS	XII	06	13	03	47.6	54.0N	161.8E	38	4.5b			
NEIC	XII	06	13	03	47.9	54.28N	161.78E	33	4.4b			
EIDC	XII	06	13	03	49.5±.67	54.2N	161.9E	31±4.5	3.8b,4.5L			
EIDC	Error ellipse is semi−major=21.0km semi−minor=12.3km azimuth=149Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**13**	**09**	**07**±4.4	**53.6N**±.19	**161.7E**±.64	**37**±30	**3.7b**	**13**	**1-81**	
EIDC	XII	06	13	09	01.5±3.95	53.6N	162.2E	0	3.7b,4.3L			**¶97xii1418**
KRSC	XII	06	13	09	01.6	53.60N	161.74E	0	3.8b			
EIDC	Error ellipse is semi−major=95.8km semi−minor=58.6km azimuth=18Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**13**	**16**	**11**±1.1	**53.67N**±.064	**161.7E**±.15	**45**±8.2	**4.0b**	**36**	**1-86**	
KRSC	XII	06	13	16	08.1	53.70N	161.50E	0	4.4b			**¶97xii1419**
MOS	XII	06	13	16	08.8	53.6N	161.8E	33	4.6b			
BJI	XII	06	13	16	09.3	53.58N	161.48E	23				
NEIC	XII	06	13	16	09.8	53.74N	161.73E	33	4.5b			
EIDC	XII	06	13	16	12.1±.57	53.7N	161.6E	34±3.9	3.9b,4.3L			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=17.9km semi−minor=10.9km azimuth=134Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**13**	**20**	**00.5**±.74	**53.93N**±.053	**162.02E**±.076	**41**±7.2	**4.5b**	**81**	**1-86**	
KRSC	XII	06	13	19	58.0	53.86N	161.93E	3	4.9b			**¶97xii1423**
BJI	XII	06	13	19	59.8	54.23N	161.47E	22	4.8b,4.9s			
MOS	XII	06	13	20	00.0	54.0N	162.0E	37	5.1b			
NEIC	XII	06	13	20	00.0	54.08N	162.02E	33	4.9b			
EIDC	XII	06	13	20	02.1±.65	54.1N	162.0E	33±4.1	4.2b,4.8L			
EIDC	Error ellipse is semi−major=19.2km semi−minor=11.6km azimuth=152Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**13**	**23**	**26**±5.0	**53.8N**±.16	**162.1E**±.76	**0**		**8**	**1-5**	
KRSC	XII	06	13	23	24.3	53.80N	162.19E	0	4.0b			**¶97xii1424**
ISC	**XII**	**06**	**13**	**30**	**55**±1.2	**53.80N**±.075	**162.0E**±.18	**36**±11	**3.8b**	**26**	**1-74**	
KRSC	XII	06	13	30	51.1	53.78N	162.04E	0	4.1b			**¶97xii1429**
NEIC	XII	06	13	30	55.2	54.05N	161.90E	33	4.0b			
EIDC	XII	06	13	30	57.1±.82	54.0N	161.9E	30±5.4	3.6b			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=35.0km semi−minor=14.7km azimuth=155Aftershock: abbreviated analysis											
KRSC	**XII**	**06**	**13**	**48**	**40.8**	**53.82N**	**162.10E**	**0**	**3.7b**			**¶97xii1435**
ISC	**XII**	**06**	**13**	**49**	**30**±2.6	**53.73N**±.091	**161.9E**±.28	**21**±14	**3.9b**	**23**	**1-77**	
NEIC	XII	06	13	49	29.8	53.83N	162.52E	33	3.9b			**¶97xii1436**
KRSC	XII	06	13	49	32.1	53.81N	161.52E	17	4.0b			
EIDC	XII	06	13	49	32.8±.76	53.8N	162.6E	42±5.5	3.8b			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=23.0km semi−minor=15.7km azimuth=119Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**13**	**52**	**36**±5.5	**53.77N**±.096	**162.2E**±.22	**5**±34	**3.7b**	**19**	**1-77**	
KRSC	XII	06	13	52	37.6	53.85N	161.78E	1	3.9b			**¶97xii1438**
NEIC	XII	06	13	52	39.7	53.55N	162.28E	33				
EIDC	XII	06	13	52	41.5±.73	53.8N	162.2E	31±5.4	3.5b,3.9L			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=26.1km semi−minor=15.7km azimuth=149Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**13**	**56**	**47.1**±.77	**53.47N**±.056	**161.63E**±.088	**44**±6.1	**4.2b**,4.5s	**72**	**1-114**	
KRSC	XII	06	13	56	43.7	53.28N	162.13E	41	4.5b			**¶97xii1439**
MOS	XII	06	13	56	44.4	53.5N	161.7E	22	4.9b			
BJI	XII	06	13	56	45.8	53.94N	161.01E	22	4.6b,4.5s			
NEIC	XII	06	13	56	46.1	53.53N	161.63E	33	4.7b			
EIDC	XII	06	13	56	49.5±.54	53.6N	161.6E	46±3.9	3.9b			
EIDC	Error ellipse is semi−major=16.0km semi−minor=9.6km azimuth=154Aftershock: abbreviated analysisMultiple, same az											
ISC	**XII**	**06**	**13**	**58**	**55**±2.4	**54.0N**±.12	**161.5E**±.50	**7**±26		**9**	**1-5**	
KRSC	XII	06	13	58	56.6	54.01N	161.46E	21	4.0b			**¶97xii1440**
ISC	**XII**	**06**	**14**	**11**	**57**±2.3	**53.8N**±.25	**161.2E**±.57	**40**	**3.9b**	**15**	**1-70**	
KRSC	XII	06	14	11	51.1	53.50N	162.26E	40	4.0b			**¶97xii1442**
EIDC	XII	06	14	11	58.3±1.30	54.2N	159.8E	0	3.9b			
EIDC	Error ellipse is semi−major=38.5km semi−minor=22.0km azimuth=137Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**14**	**17**	**12.1**±.84	**53.78N**±.057	**162.2E**±.15	**1**	**3.8b**	**20**	**1-69**	
KRSC	XII	06	14	17	13.0	53.87N	162.00E	1	4.0b			**¶97xii1443**
NEIC	XII	06	14	17	16.4	53.97N	162.11E	33	4.4b			
EIDC	XII	06	14	17	23.9±6.09	54.1N	161.9E	83±55.6	3.5b,3.5L			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=44.6km semi−minor=20.3km azimuth=152Aftershock: abbreviated analysisLO CONF Depth											
ISC	**XII**	**06**	**14**	**24**	**01**±2.1	**53.69N**±.077	**162.0E**±.17	**18**±15	**3.7b**	**25**	**1-77**	
KRSC	XII	06	14	24	00.7	53.80N	161.58E	0	4.2b			**¶97xii1444**
NEIC	XII	06	14	24	02.8	53.70N	162.04E	33	4.4b			
EIDC	XII	06	14	24	05.7±.73	53.6N	162.0E	41±6.8	3.6b,3.6L			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=26.3km semi−minor=15.2km azimuth=152Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**14**	**27**	**07.4**±.78	**53.75N**±.055	**161.72E**±.098	**43**±7.7	**4.1b**,4.5s	**52**	**1-78**	
KRSC	XII	06	14	27	04.8	53.72N	161.77E	10	4.6b			**¶97xii1445**
BJI	XII	06	14	27	06.5	53.80N	161.70E	33	4.1b			
NEIC	XII	06	14	27	06.5	53.87N	161.74E	33	4.4b			
MOS	XII	06	14	27	06.6	53.8N	161.8E	33	4.5b			
EIDC	XII	06	14	27	09.9±.61	53.9N	161.7E	46±5.6	3.9b			
EIDC	Error ellipse is semi−major=22.1km semi−minor=11.1km azimuth=149Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**15**	**17**	**29**±2.7	**53.7N**±.12	**161.8E**±.24	**21**±21	**3.6b**	**16**	**1-69**	
KRSC	XII	06	15	17	29.9	53.85N	161.44E	13	4.1b			**¶97xii1454**
EIDC	XII	06	15	17	32.2±1.76	52.8N	162.2E	35±13.0	3.5b			
EIDC	Error ellipse is semi−major=68.9km semi−minor=18.7km azimuth=156Aftershock: abbreviated analysis											
ISC	**XII**	**06**	**15**	**19**	**08**±2.7	**53.8N**±.24	**161.9E**±.32	**51**±25	**3.5b**	**8**	**2-77**	
EIDC	XII	06	15	19	03.2±.93	53.7N	162.0E	0	3.6b			**¶97xii1455**
NEIC	XII	06	15	19	06.3	53.78N	162.07E	33				
EIDC	Error ellipse is semi−major=42.2km semi−minor=19.5km azimuth=146Aftershock: abbreviated analysis											
NEIC	Less reliable solution.											
ISC	**XII**	**06**	**15**	**39**	**10**±3.3	**53.8N**±.16	**161.6E**±.48	**3**±19		**11**	**1-5**	
KRSC	XII	06	15	39	08.9	53.77N	161.81E	5	3.9b			**¶97xii1459**
ISC	**XII**	**06**	**16**	**03**	**36**±1.6	**53.8N**±.11	**161.2E**±.30	**0**	3.5b	**13**	**1-59**	
KRSC	XII	06	16	03	34.9	53.79N	161.32E	0	3.8b			**¶97xii1462**
ISC	**XII**	**06**	**16**	**26**	**38**±1.0	**53.93N**±.078	**161.4E**±.20	**51**±9.2	**3.7b**	**20**	**1-70**	
KRSC	XII	06	16	26	37.6	53.93N	161.31E	16	3.8b			**¶97xii1465**
NEIC	XII	06	16	26	37.8	54.34N	161.34E	33				
EIDC	XII	06	16	26	45.3	54.2N	161.4E	90±148.6	3.4b			
NEIC	Less reliable solution.											
EIDC	Origin time error = 15.34Error ellipse is semi−major=42.9km semi−minor=22.9km azimuth=149Aftershock: abbreviated analysisLO CONF Depth											
ISC	**XII**	**06**	**17**	**26**	**55.5**±.85	**53.87N**±.063	**161.4E**±.14	**45**±7.5	**3.9b**	**34**	**1-86**	
KRSC	XII	06	17	26	53.8	53.78N	161.56E	21	4.3b			**¶97xii1476**
NEIC	XII	06	17	26	54.7	54.06N	161.34E	33	4.2b			
EIDC	XII	06	17	26	58.2±.57	53.9N	161.4E	49±5.0	3.7b			
EIDC	Error ellipse is semi−major=20.0km semi−minor=11.2km azimuth=146Aftershock: abbreviated analysis											

ISC XII 06 17 37 24.9±.53 **53.90N**±.033 **161.88E**±.041 **40**±4.7 **5.1b,4.8s** **290 1-150**
KRSC XII 06 17 37 20.4 53.77N 162.35E 11 5.1b **¶97xii1480**
BJI XII 06 17 37 22.6 54.29N 161.31E 18 4.9b,5.2s
MOS XII 06 17 37 24.1 54.0N 161.9E 33 5.6b
NEIC XII 06 17 37 24.2 53.98N 161.92E 33 5.3b,4.6s
EIDC XII 06 17 37 27.4±.38 54.1N 161.9E 37±2.6 4.7b,4.4s
EIDC Error ellipse is semi-major=14.1km semi-minor=9.5km azimuth=153
ISC XII 06 17 42 40.9±.70 **53.93N**±.053 **161.87E**±.097 **51**±6.3 **4.4b**,4.7s **58 1-114**
KRSC XII 06 17 42 36.7 53.82N 162.12E 6 4.7b **¶97xii1481**
BJI XII 06 17 42 39.2 54.24N 161.60E 31
MOS XII 06 17 42 39.4 54.1N 161.8E 33 4.9b
NEIC XII 06 17 42 39.6 54.12N 161.88E 33 4.7b
EIDC XII 06 17 42 41.1±.52 54.0N 161.9E 30±3.2 4.1b,4.8L
EIDC Error ellipse is semi-major=16.8km semi-minor=10.3km azimuth=152Aftershock: abbreviated analysis
ISC XII 06 18 00 57±2.1 **53.68N**±.091 **161.6E**±.12 **23**±16 **3.9b** **32 1-119**
KRSC XII 06 18 00 54.6 53.29N 162.05E 14 4.1b **¶97xii1485**
MOS XII 06 18 00 57.9 53.6N 161.5E 33 4.5b
NEIC XII 06 18 00 58.4 53.72N 161.62E 33 4.3b
EIDC XII 06 18 00 59.2±.77 53.6N 161.8E 26±3.9 3.8b,3.9L
EIDC Error ellipse is semi-major=25.1km semi-minor=12.3km azimuth=159
ISC XII 06 18 02 13.4±.95 **53.92N**±.070 **161.8E**±.15 **49**±8.5 **4.0b** **28 1-74**
EIDC XII 06 18 02 09.5±.96 54.1N 161.7E 0 4.0b,4.7L **¶97xii1487**
KRSC XII 06 18 02 09.9 53.82N 161.80E 0 4.4b
NEIC XII 06 18 02 12.4 54.18N 161.75E 33 4.4b
EIDC Error ellipse is semi-major=29.5km semi-minor=15.2km azimuth=148
KRSC XII 06 18 12 50.8 53.48N 161.72E 2 3.7b **¶97xii1489**
ISC XII 06 18 18 32.6±.95 **53.98N**±.067 **161.9E**±.15 **43**±9.4 **3.9b** **29 1-77**
KRSC XII 06 18 18 28.3 53.87N 161.97E 0 4.0b **¶97xii1490**
EIDC XII 06 18 18 31.1±1.74 54.6N 162.2E 0 4.0b
NEIC XII 06 18 18 32.3 54.30N 162.02E 33 4.2b
EIDC Error ellipse is semi-major=48.6km semi-minor=19.7km azimuth=6
NEIC Less reliable solution.
ISC XII 06 18 30 46.7±.88 **53.82N**±.067 **161.5E**±.16 **53**±6.6 **4.1b** **33 1-77**
KRSC XII 06 18 30 44.4 53.69N 161.62E 16 4.4b **¶97xii1492**
MOS XII 06 18 30 45.2 54.0N 161.5E 33 4.6b
NEIC XII 06 18 30 45.2 54.03N 161.53E 33 4.4b
EIDC XII 06 18 30 48.4±.65 53.9N 161.5E 47±4.6 3.8b
EIDC Error ellipse is semi-major=17.3km semi-minor=12.1km azimuth=138
ISC XII 06 18 44 54.4±.87 **53.78N**±.059 **161.7E**±.16 **2** **4.0b** **27 1-86**
EIDC XII 06 18 44 52.7±1.34 52.1N 162.4E 0 3.9b **¶97xii1493**
KRSC XII 06 18 44 54.5 53.83N 161.62E 2 4.2b
NEIC XII 06 18 44 56.0 52.22N 162.51E 33 4.3b
MOS XII 06 18 44 59.4 53.0N 162.1E 33 4.6b
EIDC Error ellipse is semi-major=43.2km semi-minor=20.8km azimuth=167
NEIC Poor solution.
ISC XII 06 18 52 00±1.8 **53.7N**±.16 **161.1E**±.39 **0** **10 1-3**
KRSC XII 06 18 51 57.5 53.59N 161.39E 0 3.8b **¶97xii1495**
ISC XII 06 18 53 14.5±.72 **53.62N**±.053 **161.47E**±.084 **45**±6.0 **4.4b,4.4s** **81 1-143**
KRSC XII 06 18 53 11.3 53.60N 161.47E 1 4.8b **¶97xii1497**
BJI XII 06 18 53 11.5 53.82N 161.25E 27 4.5b,4.3s
MOS XII 06 18 53 13.1 53.7N 161.5E 30 4.9b
NEIC XII 06 18 53 13.2 53.67N 161.48E 33 4.7b
EIDC XII 06 18 53 16.8±.51 53.7N 161.4E 48±3.7 4.1b,4.1s
EIDC Error ellipse is semi-major=15.4km semi-minor=9.2km azimuth=156
ISC XII 06 18 55 30±1.3 **53.7N**±.11 **161.4E**±.23 **44**±9.7 **4.2b** **18 1-74**
EIDC XII 06 18 55 26.2±1.12 53.7N 161.5E 0 4.2b **¶97xii1498**
KRSC XII 06 18 55 27.0 53.57N 161.55E 6 4.2b
NEIC XII 06 18 55 29.0 53.75N 161.51E 33 4.5b
EIDC Error ellipse is semi-major=33.2km semi-minor=20.0km azimuth=152
NEIC Less reliable solution.
ISC XII 06 19 02 11±1.1 **53.9N**±.15 **161.5E**±.28 **5** **3.8b** **15 1-70**
EIDC XII 06 19 02 11.9±1.35 53.7N 161.5E 0 3.7b **¶97xii1499**
KRSC XII 06 19 02 13.1 53.57N 161.48E 5 3.8b
NEIC XII 06 19 02 15.0 53.85N 161.44E 33
EIDC Error ellipse is semi-major=40.7km semi-minor=23.6km azimuth=143
NEIC Less reliable solution.
ISC XII 06 19 14 18±3.6 **53.9N**±.12 **161.9E**±.37 **3**±17 **12 1-5**
KRSC XII 06 19 14 16.7 53.89N 161.94E 1 3.8b **¶97xii1502**
ISC XII 06 19 39 24±3.6 **53.4N**±.20 **162.9E**±.47 **13** 4.2b **8 1-64**
KRSC XII 06 19 39 29.0 53.64N 162.13E 13 3.7b **¶97xii1506**
ISC XII 06 20 06 03.6±.89 **53.79N**±.065 **161.5E**±.12 **37**±8.6 **4.0b**,3.5s **40 1-86**
EIDC XII 06 20 06 00.2±.73 53.8N 161.6E 0 4.0b,3.5s **¶97xii1514**
MOS XII 06 20 06 01.2 53.9N 161.5E 19 4.6b
KRSC XII 06 20 06 03.0 53.76N 161.42E 16 4.5b
NEIC XII 06 20 06 03.4 53.93N 161.52E 33 4.4b
EIDC Error ellipse is semi-major=24.6km semi-minor=13.9km azimuth=149
ISC XII 06 20 45 19±1.5 **53.96N**±.094 **161.1E**±.40 **22**±28 **11 1-4**
KRSC XII 06 20 45 19.1 53.96N 161.08E 23 3.8b **¶97xii1521**
ISC XII 06 21 03 38.2±.75 **53.84N**±.053 **161.66E**±.094 **44**±6.6 **4.4b** **55 1-86**
KRSC XII 06 21 03 33.7 53.78N 161.67E 0 4.6b **¶97xii1526**
BJI XII 06 21 03 35.8 54.22N 161.86E 41 4.1b
MOS XII 06 21 03 36.3 53.9N 161.8E 28 4.7b
NEIC XII 06 21 03 37.2 53.96N 161.73E 33 4.6b
EIDC XII 06 21 03 39.3±.70 53.9N 161.7E 34±3.5 4.1b,4.6L
EIDC Error ellipse is semi-major=19.7km semi-minor=12.2km azimuth=172
ISC XII 06 21 08 23±1.4 **52.7N**±.11 **159.7E**±.24 **71**±7.7 **3.9b** **23 0-87**
KRSC XII 06 21 08 13.4 52.39N 160.58E 0 4.2b **¶97xii1530**
EIDC XII 06 21 08 18.0±1.07 53.0N 159.1E 0 3.9b
EIDC Error ellipse is semi-major=31.8km semi-minor=18.1km azimuth=149
ISC XII 06 21 14 43±1.3 **53.56N**±.078 **161.6E**±.18 **38**±11 **4.1b** **24 1-74**
EIDC XII 06 21 14 40.8±.97 53.8N 161.4E 0 4.0b,4.2L **¶97xii1532**
KRSC XII 06 21 14 42.1 53.60N 161.38E 7 4.4b
MOS XII 06 21 14 42.5 53.5N 161.8E 33 4.5b
NEIC XII 06 21 14 43.2 53.62N 161.67E 33 4.4b
EIDC Error ellipse is semi-major=36.3km semi-minor=16.0km azimuth=153
NEIC Less reliable solution.
ISC XII 06 21 32 10.2±.78 **53.80N**±.055 **161.5E**±.10 **50**±6.8 **4.2b**,4.2s **51 1-87**
MOS XII 06 21 32 07.9 53.9N 161.5E 26 4.6b **¶97xii1537**
NEIC XII 06 21 32 08.5 53.86N 161.49E 33 4.4b
KRSC XII 06 21 32 08.9 53.69N 161.49E 28 4.6b
EIDC XII 06 21 32 12.4±.50 53.8N 161.5E 51±3.9 3.9b
EIDC Error ellipse is semi-major=15.8km semi-minor=9.4km azimuth=152
ISC XII 06 21 37 00±2.2 **53.53N**±.099 **161.9E**±.19 **16**±16 **3.7b** **15 1-69**
EIDC XII 06 21 36 59.0±1.09 53.8N 161.7E 0 3.6b,4.2L **¶97xii1538**
KRSC XII 06 21 36 59.2 53.58N 161.61E 1 3.9b
EIDC Error ellipse is semi-major=99.3km semi-minor=19.2km azimuth=150
ISC XII 06 23 10 21±1.3 **53.81N**±.085 **161.7E**±.22 **43**±12 **3.7b** **19 1-69**
KRSC XII 06 23 10 15.1 53.68N 162.03E 1 4.0b **¶97xii1553**
NEIC XII 06 23 10 21.9 54.30N 161.69E 33
EIDC XII 06 23 10 29.0 54.1N 161.7E 85±141.4 3.5b
NEIC Single network solution.
EIDC Origin time error = 14.73Error ellipse is semi-major=35.7km semi-minor=20.0km azimuth=160
ISC XII 07 00 01 29±3.5 **53.8N**±.15 **161.7E**±.57 **0** **9 1-3**
KRSC XII 07 00 01 26.9 53.78N 161.76E 0 3.7b **¶97xii1560**
ISC XII 07 00 14 24±4.0 **53.8N**±.13 **161.7E**±.61 **0** **9 1-3**
KRSC XII 07 00 14 22.7 53.82N 161.77E 0 3.8b **¶97xii1562**
ISC XII 07 00 17 02±1.3 **53.74N**±.092 **161.8E**±.19 **43**±14 **4.0b** **21 1-69**
KRSC XII 07 00 17 00.0 53.77N 161.71E 6 4.1b **¶97xii1563**
NEIC XII 07 00 17 01.6 53.98N 161.76E 33 4.2b
EIDC XII 07 00 17 02.2±1.39 53.9N 161.8E 23±9.7 3.8b
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=43.0km semi-minor=22.2km azimuth=163
ISC XII 07 00 43 21±1.5 **53.75N**±.091 **161.5E**±.25 **34**±14 **3.7b** **18 1-77**
NEIC XII 07 00 43 21.2 53.96N 161.50E 33 4.2b **¶97xii1569**
KRSC XII 07 00 43 21.6 53.83N 161.23E 13 4.0b
EIDC XII 07 00 43 24.4±1.19 53.8N 161.6E 47±12.4 3.5b
NEIC Poor solution.
EIDC Error ellipse is semi-major=41.8km semi-minor=20.5km azimuth=143
ISC XII 07 00 55 55±1.2 **53.88N**±.072 **161.7E**±.19 **39**±11 **3.9b** **26 1-86**
KRSC XII 07 00 55 52.6 53.87N 161.52E 1 4.2b **¶97xii1571**
NEIC XII 07 00 55 54.4 54.17N 161.57E 33 4.2b
EIDC XII 07 00 55 57.4±.83 54.1N 161.5E 43±6.0 3.6b
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=26.8km semi-minor=16.0km azimuth=140
ISC XII 07 01 10 33±1.4 **53.75N**±.087 **161.7E**±.23 **46**±11 **3.9b** **21 1-77**
KRSC XII 07 01 10 30.9 53.77N 161.36E 0 4.2b **¶97xii1574**
NEIC XII 07 01 10 32.0 53.99N 161.57E 33 4.2b
EIDC XII 07 01 10 36.9±1.24 53.9N 161.6E 60±12.4 3.6b
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=32.9km semi-minor=19.9km azimuth=136
ISC XII 07 01 20 06±1.1 **53.77N**±.082 **161.5E**±.21 **47**±12 **3.7b** **20 1-74**
NEIC XII 07 01 20 04.8 53.97N 161.61E 33 4.3b **¶97xii1575**
KRSC XII 07 01 20 07.3 53.87N 161.19E 31 4.1b
EIDC XII 07 01 20 10.9±4.42 54.2N 161.8E 54±16.3 3.4b
NEIC Poor solution.
EIDC Error ellipse is semi-major=87.6km semi-minor=31.5km azimuth=14
ISC XII 07 01 28 09±2.1 **53.9N**±.14 **162.0E**±.35 **52**±14 **3.7b** **12 1-74**
EIDC XII 07 01 28 05.5±2.75 54.1N 161.7E 0 3.8b **¶97xii1576**
KRSC XII 07 01 28 08.9 53.88N 161.72E 9 3.8b
EIDC Error ellipse is semi-major=79.1km semi-minor=33.8km azimuth=148
ISC XII 07 01 45 12±2.7 **53.8N**±.10 **161.8E**±.45 **0** 4.3b **10 1-24**
KRSC XII 07 01 45 11.0 53.86N 161.77E 0 4.0b **¶97xii1579**
ISC XII 07 01 48 15.6±.68 **53.75N**±.051 **161.53E**±.095 **51**±5.8 **4.2b**,3.6s **63 1-86**
KRSC XII 07 01 48 12.1 53.69N 161.61E 5 4.6b **¶97xii1580**
MOS XII 07 01 48 13.0 53.8N 161.6E 26 4.8b
NEIC XII 07 01 48 13.9 53.88N 161.55E 33 4.6b
BJI XII 07 01 48 15.3 53.22N 161.66E 53 4.5b
EIDC XII 07 01 48 16.9±.65 53.8N 161.6E 44±5.6 4.0b,3.6s
EIDC Error ellipse is semi-major=18.3km semi-minor=11.7km azimuth=146
ISC XII 07 01 55 18±3.6 **53.9N**±.13 **161.7E**±.51 **6**±17 **9 1-3**
KRSC XII 07 01 55 15.9 53.89N 161.80E 0 3.8b **¶97xii1581**
ISC XII 07 02 02 10±5.7 **53.8N**±.28 **161.8E**±.93 **40** **7 1-2**
KRSC XII 07 02 02 08.3 53.76N 162.03E 40 3.7b **¶97xii1585**
ISC XII 07 02 13 36.7±.47 **53.73N**±.056 **162.10E**±.087 **0** **4.2b** **25 1-69**
KRSC XII 07 02 13 39.0 53.85N 161.59E 0 4.2b **¶97xii1587**
NEIC XII 07 02 13 41.8 54.08N 161.90E 33 4.4b
EIDC XII 07 02 13 43.2±1.47 54.1N 162.1E 22±9.0 3.9b
NEIC Poor solution.
EIDC Error ellipse is semi-major=71.4km semi-minor=17.8km azimuth=151
ISC XII 07 03 19 30±2.3 **53.8N**±.13 **161.6E**±.39 **0** **12 1-4**
KRSC XII 07 03 19 28.0 53.79N 161.74E 0 4.0b **¶97xii1595**
ISC XII 07 03 21 39±1.9 **53.5N**±.14 **161.6E**±.30 **49**±14 **4.0b** **13 1-70**
EIDC XII 07 03 21 34.9±1.78 53.5N 161.8E 0 4.0b **¶97xii1596**
KRSC XII 07 03 21 36.6 53.45N 161.64E 8 3.7b
NEIC XII 07 03 21 37.5 53.51N 161.52E 33
EIDC Error ellipse is semi-major=49.8km semi-minor=35.6km azimuth=160
NEIC Poor solution.
ISC XII 07 03 40 19±3.1 **53.8N**±.12 **161.7E**±.36 **4**±15 **11 1-3**
KRSC XII 07 03 40 18.5 53.82N 161.72E 3 4.0b **¶97xii1599**
ISC XII 07 03 56 22±1.1 **53.37N**±.074 **161.3E**±.17 **47**±6.9 **4.4b**,4.7s **49 1-86**
KRSC XII 07 03 56 16.0 53.18N 161.79E 8 4.7b **¶97xii1605**
MOS XII 07 03 56 19.7 53.2N 161.7E 36 4.8b
NEIC XII 07 03 56 20.0 53.41N 161.54E 33 4.6b
EIDC XII 07 03 56 24.3±1.15 53.5N 161.3E 52±7.6 4.2b,4.5s
EIDC Error ellipse is semi-major=27.0km semi-minor=16.2km azimuth=123
ISC XII 07 04 14 01±1.2 **53.94N**±.084 **161.6E**±.24 **50**±13 **3.7b** **19 1-69**
NEIC XII 07 04 14 00.8 54.38N 161.30E 33 **¶97xii1607**
KRSC XII 07 04 14 00.9 53.91N 161.42E 18 3.9b
EIDC XII 07 04 14 04.7±1.45 54.2N 161.4E 57±13.2 3.5b
NEIC Poor solution.
EIDC Error ellipse is semi-major=40.5km semi-minor=23.4km azimuth=147
ISC XII 07 05 03 08.5±.58 **53.81N**±.040 **161.89E**±.045 **40**±5.3 **4.8b,4.7s** **208 1-143**
KRSC XII 07 05 03 06.5 53.80N 161.78E 5 4.9b **¶97xii1614**
MOS XII 07 05 03 06.9 53.7N 162.1E 33 5.1b
BJI XII 07 05 03 07.8 53.80N 161.90E 33 4.8b,5.0s
NEIC XII 07 05 03 07.8 53.85N 161.96E 33 5.0b,4.5s
EIDC XII 07 05 03 10.5±.71 53.9N 161.9E 43±6.3 4.5b,4.4s
EIDC Error ellipse is semi-major=17.1km semi-minor=10.9km azimuth=138
KRSC XII 07 05 05 37.6 53.61N 161.74E 3 4.1b **¶97xii1617**
ISC XII 07 05 27 50±3.3 **53.4N**±.18 **161.6E**±.48 **32** **12 1-3**
KRSC XII 07 05 27 47.2 53.28N 161.85E 32 3.8b **¶97xii1619**
ISC XII 07 05 29 16±4.9 **53.4N**±.25 **161.7E**±.69 **47**±26 **11 1-60**
KRSC XII 07 05 29 13.9 53.28N 161.86E 29 3.8b **¶97xii1621**
ISC XII 07 05 31 19±1.3 **53.64N**±.089 **162.2E**±.18 **21** **12 1-3**
KRSC XII 07 05 31 20.3 53.68N 162.06E 21 3.9b **¶97xii1622**
ISC XII 07 05 51 18±3.6 **53.8N**±.14 **161.8E**±.43 **1**±20 **12 1-4**
KRSC XII 07 05 51 18.3 53.78N 161.84E 3 3.7b **¶97xii1626**
ISC XII 07 05 54 32.2±.67 **53.79N**±.049 **161.57E**±.087 **49**±6.0 **4.3b,4.1s** **67 1-81**
KRSC XII 07 05 54 28.0 53.64N 161.92E 10 4.7b **¶97xii1628**
BJI XII 07 05 54 29.2 53.87N 161.94E 45 4.4b,4.9s
MOS XII 07 05 54 30.6 53.8N 161.7E 38 4.8b
NEIC XII 07 05 54 30.7 53.91N 161.57E 33 4.6b
EIDC XII 07 05 54 32.6±.57 53.9N 161.6E 34±4.8 4.0b,4.0s
EIDC Error ellipse is semi-major=17.6km semi-minor=10.1km azimuth=146
ISC XII 07 06 08 59.8±.90 **53.78N**±.060 **161.8E**±.13 **44**±9.4 **4.0b** **36 1-81**
EIDC XII 07 06 08 55.7±.76 53.9N 161.9E 0 4.0b **¶97xii1632**
KRSC XII 07 06 08 56.5 53.77N 161.79E 0 4.3b
NEIC XII 07 06 08 59.0 53.99N 161.86E 33 4.4b
MOS XII 07 06 08 59.1 53.8N 161.9E 35 4.6b
EIDC Error ellipse is semi-major=24.5km semi-minor=17.0km azimuth=155

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
ISC	**XII**	**07 06 39 49.6**±.50	**54.62N**±.074	**163.15E**±.088	**25**	**3.9b**	**25**	**1-74**	
KRSC	XII	07 06 39 48.1	54.58N	163.36E	25	4.2b			**¶97xii1636**
NEIC	XII	07 06 39 53.3	55.35N	162.98E	33	4.1b			
EIDC	XII	07 06 40 07.6	55.3N	163.1E	152±111.9	3.5b			
NEIC	Poor solution.								
EIDC	Origin time error = 11.41Error ellipse is semi−major=39.4km semi−minor=18.9km azimuth=155								
ISC	**XII**	**07 06 51 25**±2.1	**54.65N**±.081	**163.1E**±.16	**16**±20		**12**	**1-4**	
KRSC	XII	07 06 51 24.3	54.67N	163.08E	3	4.0b			**¶97xii1638**
ISC	**XII**	**07 06 55 43.4**±.83	**53.77N**±.061	**161.7E**±.12	**51**±8.4	**4.3b**	**39**	**1-74**	
EIDC	XII	07 06 55 38.7±.86	53.9N	161.7E	0	4.2b,4.6L			**¶97xii1640**
KRSC	XII	07 06 55 40.2	53.60N	162.06E	28	4.5b			
MOS	XII	07 06 55 40.8	53.8N	161.8E	24	4.6b			
NEIC	XII	07 06 55 41.8	53.93N	161.65E	33	4.4b			
EIDC	Error ellipse is semi−major=26.1km semi−minor=14.7km azimuth=157Aftershock: abbreviated analysis								
ISC	**XII**	**07 06 59 04**±2.1	**53.8N**±.12	**161.5E**±.35	**14**		**12**	**1-4**	
KRSC	XII	07 06 59 04.7	53.84N	161.38E	14	3.9b			**¶97xii1643**
ISC	**XII**	**07 07 17 03**±3.4	**53.8N**±.14	**161.6E**±.52	**0**		**10**	**1-3**	
KRSC	XII	07 07 17 01.9	53.76N	161.68E	0	3.7b			**¶97xii1647**
ISC	**XII**	**07 07 57 39.6**±.68	**53.97N**±.051	**161.87E**±.081	**45**±6.5	**4.4b**,4.3s	**70**	**1-86**	
KRSC	XII	07 07 57 35.4	53.85N	162.11E	5	4.7b			**¶97xii1655**
BJI	XII	07 07 57 38.1	54.83N	160.91E	5	4.2b			
NEIC	XII	07 07 57 38.7	54.13N	161.88E	33	4.7b			
MOS	XII	07 07 57 39.3	54.0N	161.8E	44	4.7b			
EIDC	XII	07 07 57 40.2±.92	54.1N	161.9E	28±6.2	4.1b,3.1L			
EIDC	Error ellipse is semi−major=20.4km semi−minor=12.6km azimuth=146								
ISC	**XII**	**07 08 08 42**±1.8	**53.8N**±.12	**161.2E**±.33	**6**	**3.7b**	**14**	**1-60**	
KRSC	XII	07 08 08 42.5	53.88N	161.19E	6	3.7b			**¶97xii1656**
EIDC	XII	07 08 09 22.3±6.09	53.7N	162.0E	0	3.6b			
EIDC	Error ellipse is semi−major=140.4km semi−minor=42.1km azimuth=7Aftershock: abbreviated analysis								
ISC	**XII**	**07 08 56 07**±2.3	**53.90N**±.086	**162.1E**±.19	**22**±16	**3.6b**	**22**	**1-69**	
KRSC	XII	07 08 56 03.5	53.86N	162.12E	0	4.0b			**¶97xii1665**
EIDC	XII	07 08 56 05.1±1.16	54.1N	162.0E	0	3.7b			
NEIC	XII	07 08 56 08.8	54.29N	161.74E	33	4.3b			
EIDC	Error ellipse is semi−major=47.1km semi−minor=19.7km azimuth=147								
NEIC	Less reliable solution.								
ISC	**XII**	**07 11 06 53**±2.2	**53.8N**±.10	**161.4E**±.36	**6**±19		**13**	**1-5**	
KRSC	XII	07 11 06 53.9	53.88N	161.38E	14	3.9b			**¶97xii1681**
ISC	**XII**	**07 13 14 45.8**±.91	**53.88N**±.034	**161.61E**±.041	**29**±6.5	**5.0b,4.6s**	**289**	**1-158**	
KRSC	XII	07 13 14 44.6	53.76N	161.81E	22	5.0b			**¶97xii1703**
BJI	XII	07 13 14 44.7	54.53N	161.24E	17	5.0b,4.8s			
MOS	XII	07 13 14 45.9	53.8N	161.6E	37	5.3b			
NEIC	XII	07 13 14 46.4	53.96N	161.61E	33	5.1b			
EIDC	XII	07 13 14 50.5±3.35	54.0N	161.5E	54±30.4	4.8b,5.0L			
EIDC	Error ellipse is semi−major=16.7km semi−minor=11.8km azimuth=143								
ISC	**XII**	**07 13 56 32.1**±.53	**53.89N**±.036	**161.67E**±.044	**41**±4.8	**4.9b,4.6s**	**235**	**1-150**	
EIDC	XII	07 13 56 27.8±.52	54.0N	161.6E	0	4.8b,4.4s			**¶97xii1711**
BJI	XII	07 13 56 28.6	54.13N	161.73E	32	4.9b,4.9s			
KRSC	XII	07 13 56 29.2	53.81N	162.05E	16	5.2b			
NEIC	XII	07 13 56 31.2	53.93N	161.71E	33	5.0b,4.6s			
MOS	XII	07 13 56 32.3	53.9N	161.7E	49	5.4b			
EIDC	Error ellipse is semi−major=16.7km semi−minor=11.1km azimuth=148Aftershock: abbreviated analysis								
ISC	**XII**	**07 14 12 29**±1.2	**53.56N**±.086	**162.0E**±.16	**46**±13	**4.1b**	**28**	**1-69**	
KRSC	XII	07 14 12 26.6	53.44N	162.43E	41	3.8b			**¶97xii1715**
NEIC	XII	07 14 12 29.1	53.78N	162.19E	33	4.3b			
EIDC	XII	07 14 12 31.4±.85	53.6N	162.2E	40±5.2	3.8b,3.5L			
MOS	XII	07 14 12 46.0	56.2N	163.0E	33	4.5b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=26.6km semi−minor=14.0km azimuth=161								
ISC	**XII**	**07 14 35 49**±1.3	**53.88N**±.089	**161.6E**±.23	**47**±13	**3.7b**	**17**	**1-77**	
KRSC	XII	07 14 35 42.0	53.78N	161.97E	0	3.8b			**¶97xii1721**
EIDC	XII	07 14 35 46.4±1.35	53.9N	161.4E	15±8.9	3.7b			
NEIC	XII	07 14 35 47.1	54.03N	161.36E	33				
EIDC	Error ellipse is semi−major=42.8km semi−minor=18.8km azimuth=146Aftershock: abbreviated analysis								
NEIC	Poor solution.								
ISC	**XII**	**07 14 45 23**±1.1	**53.73N**±.041	**161.50E**±.054	**26**±7.7	**4.8b,4.5s**	**156**	**1-145**	
MOS	XII	07 14 45 21.9	53.7N	161.6E	23	5.1b			**¶97xii1723**
BJI	XII	07 14 45 22.3	53.89N	161.80E	43	4.7b,4.8s			
KRSC	XII	07 14 45 23.4	53.72N	161.65E	32	4.9b			
NEIC	XII	07 14 45 23.7	53.81N	161.45E	33	4.9b,4.2s			
EIDC	XII	07 14 45 26.6±3.50	53.9N	161.4E	43±33.4	4.4b,4.3s			
EIDC	Error ellipse is semi−major=17.3km semi−minor=10.8km azimuth=146								
ISC	**XII**	**07 15 22 09.3**±.77	**53.80N**±.055	**161.6E**±.10	**45**±6.8	**4.1b**,4.0s	**52**	**1-114**	
KRSC	XII	07 15 22 07.0	53.67N	161.77E	25	4.6b			**¶97xii1725**
NEIC	XII	07 15 22 08.0	53.90N	161.58E	33	4.5b			
MOS	XII	07 15 22 08.1	53.8N	161.6E	33	4.7b			
EIDC	XII	07 15 22 12.0±3.69	53.8N	161.7E	54±34.5	3.8b,3.7L			
EIDC	Error ellipse is semi−major=19.7km semi−minor=11.9km azimuth=145								
ISC	**XII**	**07 19 29 04**±2.4	**53.9N**±.13	**161.5E**±.43	**20**		**11**	**1-3**	
KRSC	XII	07 19 29 04.6	53.97N	161.46E	20	3.8b			**¶97xii1773**
ISC	**XII**	**07 19 57 57.0**±.67	**53.80N**±.049	**161.43E**±.096	**52**±5.8	**4.3b**	**66**	**1-87**	
BJI	XII	07 19 57 49.7	53.22N	161.98E	33	4.3b			**¶97xii1778**
NEIC	XII	07 19 57 55.0	53.84N	161.56E	33	4.5b			
MOS	XII	07 19 57 56.2	53.9N	161.3E	41	4.8b			
KRSC	XII	07 19 57 56.6	53.78N	161.42E	26	4.5b			
EIDC	XII	07 19 57 58.2±3.88	53.9N	161.5E	46±38.3	4.0b,3.7L			
EIDC	Error ellipse is semi−major=18.8km semi−minor=12.1km azimuth=140								
ISC	**XII**	**07 20 21 45.1**±.81	**53.80N**±.056	**162.15E**±.098	**48**±7.8	**4.2b**,4.8s	**53**	**1-81**	
EIDC	XII	07 20 21 40.8±.64	53.9N	162.1E	0	4.1b,4.6L			**¶97xii1784**
BJI	XII	07 20 21 43.9	53.60N	162.20E	33				
NEIC	XII	07 20 21 43.9	53.91N	162.27E	33	4.4b			
KRSC	XII	07 20 21 44.3	53.80N	161.97E	12	4.5b			
MOS	XII	07 20 21 44.7	53.8N	162.1E	46	4.8b			
EIDC	Error ellipse is semi−major=21.9km semi−minor=13.2km azimuth=146								
ISC	**XII**	**07 21 48 15.7**±.89	**53.62N**±.061	**161.5E**±.14	**52**±6.8	**4.1b**	**38**	**1-86**	
EIDC	XII	07 21 48 10.6±.71	53.7N	161.5E	0	4.1b,3.3s			**¶97xii1790**
KRSC	XII	07 21 48 11.9	53.54N	161.70E	8	4.5b			
BJI	XII	07 21 48 12.7	53.36N	161.49E	36	4.4b			
MOS	XII	07 21 48 13.0	53.6N	161.8E	33	4.8b			
NEIC	XII	07 21 48 13.9	53.78N	161.43E	33	4.5b			
EIDC	Error ellipse is semi−major=25.0km semi−minor=14.1km azimuth=140Aftershock: abbreviated analysis								
KRSC	**XII**	**07 22 20 13.8**	**53.68N**	**161.77E**	**5**	**3.8b**			**¶97xii1795**
ISC	**XII**	**07 23 05 48.9**±.91	**53.65N**±.030	**161.84E**±.038	**19**±6.3	**5.2b,5.5s**	**410**	**1-150**	
EIDC	XII	07 23 05 47.8±.50	53.8N	161.7E	0	4.9b,5.5s			**¶97xii1804**
BJI	XII	07 23 05 48.6	54.22N	161.18E	11	5.0b,5.9s			
KRSC	XII	07 23 05 49.2	53.66N	162.07E	23	5.5b			
MOS	XII	07 23 05 50.4	53.7N	161.9E	33	5.6b			
NEIC	XII	07 23 05 50.8	53.69N	161.91E	33	5.3b,5.4s			
HRVD	XII	07 23 05 57.0±.2	53.69N±.03	162.16E±.04	32±1.7				
EIDC	Error ellipse is semi−major=15.4km semi−minor=11.0km azimuth=149								
NEIC	Mw5.6(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c63; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.22±.05; $M_{\theta\theta}$0.06±.08; $M_{\phi\phi}$−2.28±.07; $M_{r\theta}$0.35±.12; $M_{r\phi}$1.70±.15; $M_{\theta\phi}$−1.26±.06. Principal Axes: T 2.80,Plg71°,Azm265°; N 0.55, Plg8°,Azm19°; P −3.35,Plg17°,Azm112°. Best double couple: M0 3.1×10^{17}Nm, NP1:ϕ_S214°, δ29°,λ107°. NP2:ϕ_S15°,δ63°,λ81°.								
ISC	**XII**	**07 23 38 19**±1.7	**53.7N**±.11	**161.8E**±.26	**40**±17	**3.7b**	**16**	**1-69**	
EIDC	XII	07 23 38 17.2±1.14	54.2N	161.7E	0	3.7b			**¶97xii1814**
KRSC	XII	07 23 38 17.2	53.72N	161.72E	4	4.0b			
NEIC	XII	07 23 38 19.8	54.20N	161.58E	33				
EIDC	Error ellipse is semi−major=46.8km semi−minor=20.9km azimuth=152Aftershock: abbreviated analysis								
NEIC	Poor solution.								
ISC	**XII**	**07 23 41 10**±1.1	**53.71N**±.073	**161.8E**±.15	**38**±11	**3.9b**	**30**	**1-77**	
KRSC	XII	07 23 41 09.2	53.61N	161.92E	32	4.2b			**¶97xii1816**
MOS	XII	07 23 41 10.3	54.0N	161.4E	33	4.6b			
NEIC	XII	07 23 41 10.4	54.06N	161.62E	33	4.3b			
EIDC	XII	07 23 41 12.8±.68	54.0N	161.6E	34±5.1	3.8b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=28.1km semi−minor=13.0km azimuth=153Aftershock: abbreviated analysis								
ISC	**XII**	**07 23 46 41**±5.9	**53.7N**±.27	**161.9E**±.95	**25**		**10**	**1-3**	
KRSC	XII	07 23 46 39.8	53.67N	162.05E	25	3.8b			**¶97xii1817**
ISC	**XII**	**07 23 49 53**±1.3	**53.71N**±.091	**161.8E**±.20	**45**±13	**3.7b**	**19**	**1-69**	
KRSC	XII	07 23 49 50.1	53.62N	162.11E	24	4.0b			**¶97xii1818**
EIDC	XII	07 23 49 50.4±1.11	54.2N	161.6E	0	3.8b			
NEIC	XII	07 23 49 53.4	54.33N	161.61E	33				
EIDC	Error ellipse is semi−major=46.8km semi−minor=18.8km azimuth=156Aftershock: abbreviated analysis								
NEIC	Less reliable solution.								
ISC	**XII**	**07 23 58 18**±5.6	**53.8N**±.18	**161.9E**±.83	**25**		**8**	**1-3**	
KRSC	XII	07 23 58 17.1	53.78N	162.06E	25	3.8b			**¶97xii1821**
KRSC	**XII**	**08 00 03 44.8**	**53.72N**	**161.83E**	**10**	**3.9b**			**¶97xii1822**
ISC	**XII**	**08 00 32 50**±1.6	**53.8N**±.32	**161.4E**±.57	**65**±22	**3.5b**	**13**	**1-81**	
KRSC	XII	08 00 32 46.9	53.49N	162.07E	45	3.7b			**¶97xii1828**
EIDC	XII	08 00 32 49.0±2.36	53.9N	161.2E	45±20.3	3.4b			
EIDC	Error ellipse is semi−major=213.4km semi−minor=24.6km azimuth=134								
ISC	**XII**	**08 00 37 44**±4.8	**53.5N**±.14	**162.0E**±.27	**25**±36	**3.8b**	**16**	**1-81**	
EIDC	XII	08 00 37 45.9±1.03	53.4N	162.2E	25±6.8	3.7b,3.4s			**¶97xii1830**
KRSC	XII	08 00 37 46.6	53.66N	161.40E	10	3.8b			
EIDC	Error ellipse is semi−major=38.0km semi−minor=17.2km azimuth=144								
ISC	**XII**	**08 02 41 31**±1.6	**53.80N**±.090	**162.1E**±.23	**36**±15	**3.8b**	**21**	**1-74**	
KRSC	XII	08 02 41 29.9	53.84N	161.84E	4	4.2b			**¶97xii1844**
NEIC	XII	08 02 41 31.9	54.10N	162.04E	33	4.1b			
EIDC	XII	08 02 41 32.9±1.17	54.0N	162.1E	25±8.1	3.7b			
NEIC	Poor solution.								
EIDC	Error ellipse is semi−major=42.8km semi−minor=19.1km azimuth=152Aftershock: abbreviated analysis								
ISC	**XII**	**08 03 07 03.0**±.68	**53.63N**±.048	**161.44E**±.081	**45**±5.5	**4.4b,4.4s**	**101**	**1-86**	
KRSC	XII	08 03 07 00.0	53.49N	161.79E	25	4.9b			**¶97xii1849**
BJI	XII	08 03 07 00.6	54.04N	160.99E	21	4.8b,4.7s			
NEIC	XII	08 03 07 01.9	53.73N	161.42E	33	4.7b,4.8s			
MOS	XII	08 03 07 02.0	53.7N	161.5E	38	5.0b			
EIDC	XII	08 03 07 03.9±.80	53.8N	161.2E	33±5.7	4.0b,3.8s			
EIDC	Error ellipse is semi−major=19.0km semi−minor=11.2km azimuth=149Aftershock: abbreviated analysis								
ISC	**XII**	**08 03 37 34**±1.5	**53.79N**±.096	**161.8E**±.26	**49**±13	**3.9b**	**20**	**1-74**	
KRSC	XII	08 03 37 31.7	53.77N	161.82E	4	4.2b			**¶97xii1853**
NEIC	XII	08 03 37 35.0	54.36N	161.66E	33	4.1b			
EIDC	XII	08 03 37 37.8±1.70	54.2N	161.8E	43±16.0	3.7b			
NEIC	Poor solution.								
EIDC	Error ellipse is semi−major=43.4km semi−minor=21.2km azimuth=145								
ISC	**XII**	**08 04 35 29.3**±.84	**53.66N**±.074	**162.0E**±.13	**13**	**3.8b**	**18**	**1-81**	
KRSC	XII	08 04 35 29.6	53.69N	161.85E	13	3.9b			**¶97xii1863**
EIDC	XII	08 04 35 48.5±1.70	54.3N	165.3E	36±11.9	3.7b			
EIDC	Error ellipse is semi−major=34.8km semi−minor=23.9km azimuth=153Aftershock: abbreviated analysis								
ISC	**XII**	**08 04 41 02**±3.9	**53.8N**±.16	**161.7E**±.59	**1**		**7**	**1-3**	
KRSC	XII	08 04 41 00.7	53.84N	161.79E	1	3.7b			**¶97xii1864**
ISC	**XII**	**08 05 29 54**±3.5	**54.92N**±.079	**163.3E**±.18	**26**±26	**3.8b**	**24**	**1-85**	
KRSC	XII	08 05 29 51.4	54.86N	163.69E	20	4.2b			**¶97xii1873**
NEIC	XII	08 05 29 55.4	55.05N	163.23E	33	3.8b			
EIDC	XII	08 05 29 58.0±.61	55.0N	163.2E	36±4.3	3.6b,4.0L			
EIDC	Error ellipse is semi−major=21.6km semi−minor=12.1km azimuth=149								
ISC	**XII**	**08 05 51 55**±1.1	**53.81N**±.067	**161.9E**±.16	**45**±10	**4.0b**	**28**	**1-81**	
EIDC	XII	08 05 51 51.4±.75	53.9N	161.8E	0	4.1b,4.3L			**¶97xii1877**
KRSC	XII	08 05 51 51.9	53.74N	162.07E	14	4.4b			
NEIC	XII	08 05 51 54.2	53.90N	161.96E	33	4.2b			
EIDC	Error ellipse is semi−major=27.8km semi−minor=14.6km azimuth=152								
NEIC	Less reliable solution.								
ISC	**XII**	**08 06 32 08**±2.8	**53.8N**±.10	**161.6E**±.33	**0**±15		**13**	**1-5**	
KRSC	XII	08 06 32 06.6	53.81N	161.71E	0	4.1b			**¶97xii1882**
ISC	**XII**	**08 06 38 25**±2.2	**53.7N**±.11	**161.7E**±.34	**0**		**11**	**1-3**	
KRSC	XII	08 06 38 24.0	53.77N	161.72E	0	3.9b			**¶97xii1884**
ISC	**XII**	**08 09 09 56**±1.6	**54.95N**±.061	**163.42E**±.088	**18**±13	**4.2b**	**43**	**1-85**	
EIDC	XII	08 09 09 55.3±.70	55.0N	163.2E	0	4.2b			**¶97xii1899**
KRSC	XII	08 09 09 56.4	54.90N	163.56E	50	4.4b			
MOS	XII	08 09 09 58.0	54.9N	163.4E	33	4.5b			
NEIC	XII	08 09 09 58.2	55.02N	163.35E	33	4.3b			
EIDC	Error ellipse is semi−major=24.0km semi−minor=13.7km azimuth=155								
ISC	**XII**	**08 09 21 02.4**±.95	**53.77N**±.061	**162.0E**±.13	**37**±10	**4.1b**	**39**	**1-81**	
KRSC	XII	08 09 20 58.9	53.78N	161.84E	0	4.4b			**¶97xii1900**
EIDC	XII	08 09 20 59.3±.73	53.9N	162.0E	0	4.1b,4.2L			
MOS	XII	08 09 21 02.4	53.8N	161.9E	37	4.6b			
NEIC	XII	08 09 21 02.5	53.92N	162.05E	33	4.5b			
EIDC	Error ellipse is semi−major=27.5km semi−minor=14.1km azimuth=152								
ISC	**XII**	**08 14 30 29.4**±.70	**53.79N**±.056	**161.45E**±.098	**40**±6.8	**4.2b**	**49**	**1-87**	
KRSC	XII	08 14 30 27.6	53.68N	161.58E	17	4.6b			**¶97xii1941**
MOS	XII	08 14 30 28.2	53.9N	161.4E	28	4.7b			
BJI	XII	08 14 30 28.9	53.90N	161.40E	33	4.6b			
NEIC	XII	08 14 30 28.9	53.92N	161.41E	33	4.5b			
EIDC	XII	08 14 30 32.1±.67	53.8N	161.5E	47±6.0	3.9b			
EIDC	Error ellipse is semi−major=19.7km semi−minor=11.6km azimuth=150								

ISC XII 08 14 38 00.5±.53 **53.81N**±.039 **161.32E**±.056 **41**±4.5 **4.9b,4.4s 207 1-145**
BJI XII 08 14 37 57.0 54.33N 160.70E 8 4.6b,4.6s **¶97xii1943**
NEIC XII 08 14 37 59.7 53.88N 161.33E 33 5.0b
MOS XII 08 14 38 00.0 54.0N 161.2E 33 5.2b
KRSC XII 08 14 38 00.2 53.76N 161.44E 39 4.9b
EIDC XII 08 14 38 02.8±.48 54.0N 161.2E 45±4.5 4.5b,4.2s
EIDC Error ellipse is semi-major=18.4km semi-minor=10.6km azimuth=144
ISC XII 08 15 20 58±2.7 **54.75N**±.091 **163.4E**±.40 **16** **12 1-4**
KRSC XII 08 15 21 00.0 54.79N 163.05E 16 3.7b **¶97xii1946**
ISC XII 08 15 43 28±2.3 **53.8N**±.40 **161.6E**±.44 **33** **3.9b** **5 28-60**
EIDC XII 08 15 43 25.2±2.29 53.8N 161.6E 0 3.9b,3.1s **¶97xii1952**
EIDC Error ellipse is semi-major=67.7km semi-minor=26.4km azimuth=150
ISC XII 08 15 45 23.1±.98 **53.86N**±.062 **161.9E**±.14 **41**±9.2 **4.1b** **32 1-135**
KRSC XII 08 15 45 20.7 53.79N 162.00E 14 4.2b **¶97xii1954**
MOS XII 08 15 45 22.4 53.9N 162.0E 33 4.5b
NEIC XII 08 15 45 22.7 54.00N 162.01E 33 4.2b
EIDC XII 08 15 45 24.3±.91 54.1N 161.9E 31±7.1 4.0b,4.7L
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=31.6km semi-minor=14.2km azimuth=151
ISC XII 08 16 30 41±1.6 **53.84N**±.062 **161.9E**±.11 **19**±12 **4.0b**,3.4s **40 1-86**
KRSC XII 08 16 30 42.7 53.92N 161.64E 20 4.6b **¶97xii1962**
MOS XII 08 16 30 42.9 53.9N 161.8E 33 4.5b
NEIC XII 08 16 30 42.9 53.96N 161.86E 33 4.3b
EIDC XII 08 16 30 45.6±.63 53.9N 161.9E 42±5.0 3.8b,3.9s
EIDC Error ellipse is semi-major=21.3km semi-minor=12.3km azimuth=151
ISC XII 08 17 02 06±1.7 **53.7N**±.10 **161.6E**±.27 **37**±17 **3.5b** **17 1-81**
EIDC XII 08 17 02 02.7±1.19 53.9N 161.6E 0 3.6b **¶97xii1967**
KRSC XII 08 17 02 06.4 53.80N 161.21E 15 4.0b
EIDC Error ellipse is semi-major=101.8km semi-minor=21.7km azimuth=150
ISC XII 08 17 21 07.2±.87 **53.86N**±.070 **161.7E**±.14 **37**±10 **3.8b** **20 1-69**
KRSC XII 08 17 21 07.7 53.91N 161.52E 27 3.9b **¶97xii1969**
EIDC XII 08 17 21 12.4±1.22 54.2N 161.5E 58±9.5 3.5b
EIDC Error ellipse is semi-major=79.6km semi-minor=17.4km azimuth=160
ISC XII 08 18 17 38±1.0 **53.84N**±.039 **161.80E**±.052 **30**±7.1 **4.9b,4.9s 206 1-145**
KRSC XII 08 18 17 33.8 53.72N 162.08E 4 5.2b **¶97xii1981**
BJI XII 08 18 17 36.2 54.37N 161.16E 8 4.8b,5.2s
NEIC XII 08 18 17 38.6 53.90N 161.85E 33 5.1b,4.6s
MOS XII 08 18 17 38.8 53.9N 161.8E 35 5.3b
EIDC XII 08 18 17 41.4±.73 53.9N 161.7E 42±5.7 4.5b,5.2L
HRVD XII 08 18 17 42.2±1.5 53.19N±.19 161.27E±.28 33
NEIC Mw4.9(HRV).
EIDC Error ellipse is semi-major=13.1km semi-minor=9.7km azimuth=170Aftershock: abbreviated analysis
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s9,c15; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.57±.72; $M_{\theta\theta}$−1.16±.48; $M_{\phi\phi}$−1.41±.68; $M_{r\theta}$0.02±1.21; $M_{r\phi}$0.28±1.16; $M_{\theta\phi}$−1.98±.89. Principal Axes: T 2.59,Plg84°,Azm245°; N 0.68,Plg5°,Azm43°; P −3.27,Plg2°,Azm133°. Best double couple: $M_0$2.9×10^{16}Nm, NP1: ϕ_S229°,δ43°,λ98°. NP2:ϕ_S38°,δ47°,λ83°.
ISC XII 08 19 38 44±1.9 **53.7N**±.10 **161.5E**±.31 **0** **12 1-5**
KRSC XII 08 19 38 43.8 53.71N 161.49E 0 3.7b **¶97xii2002**
ISC XII 08 19 51 41±1.2 **53.68N**±.075 **162.2E**±.17 **16** **13 1-5**
KRSC XII 08 19 51 41.2 53.74N 162.07E 16 4.0b **¶97xii2006**
ISC XII 08 20 02 07±1.8 **54.74N**±.071 **163.0E**±.14 **15**±15 **3.8b** **23 1-85**
KRSC XII 08 20 02 05.7 54.70N 163.12E 7 4.2b **¶97xii2007**
EIDC XII 08 20 02 07.1±.90 55.0N 162.7E 0 3.7b
NEIC XII 08 20 02 10.2 55.02N 162.59E 33
EIDC Error ellipse is semi-major=38.7km semi-minor=17.5km azimuth=142Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 08 20 33 42.2±.85 **54.67N**±.071 **163.1E**±.14 **4** **3.8b** **17 1-68**
KRSC XII 08 20 33 42.0 54.67N 163.07E 4 4.1b **¶97xii2011**
EIDC XII 08 20 33 43.7±1.21 55.1N 162.5E 0 3.8b
EIDC Error ellipse is semi-major=48.9km semi-minor=21.6km azimuth=148
ISC XII 08 20 59 44.0±.99 **53.71N**±.067 **161.9E**±.18 **26** **3.9b** **22 1-81**
KRSC XII 08 20 59 46.7 53.88N 161.41E 26 4.1b **¶97xii2014**
EIDC XII 08 21 00 32.8±5.75 54.0N 161.0E 484±72.6 3.1b
EIDC Error ellipse is semi-major=36.5km semi-minor=19.5km azimuth=140Aftershock: abbreviated analysis
ISC XII 08 21 06 14±1.2 **53.81N**±.029 **161.70E**±.037 **33**±8.2 **5.4b,5.4s 476 1-150**
KRSC XII 08 21 06 11.1 53.69N 162.17E 21 5.4b **¶97xii2015**
MOS XII 08 21 06 11.8 53.9N 161.7E 18 5.9b
BJI XII 08 21 06 11.9 54.33N 161.04E 13 5.3b,5.7s
NEIC XII 08 21 06 13.8 53.85N 161.78E 33 5.4b,5.2s
EIDC XII 08 21 06 16.2±.81 54.0N 161.6E 38±6.5 4.9b,5.6L
HRVD XII 08 21 06 18.8±.2 53.68N±.03 162.13E±.04 20
NEIC Mw5.6(HRV).
EIDC Error ellipse is semi-major=17.5km semi-minor=11.2km azimuth=148Aftershock: abbreviated analysis
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c49; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}2.05±.04; $M_{\theta\theta}$−0.70±.05; $M_{\phi\phi}$−1.35±.05; $M_{r\theta}$0.62±.13; $M_{r\phi}$0.79±.12; $M_{\theta\phi}$−1.16±.05. Principal Axes: T 2.27,Plg77°,Azm309°; N 0.18, Plg0°,Azm217°; P −2.45,Plg13°,Azm127°. Best double couple: $M_0$2.4×10^{17}Nm, NP1: ϕ_S217°,δ32°,λ89°. NP2:ϕ_S37°,δ58°,λ90°.
ISC XII 08 21 12 57±3.5 **53.7N**±.13 **161.8E**±.53 **16**±17 **12 1-5**
KRSC XII 08 21 12 55.0 53.77N 161.66E 0 4.1b **¶97xii2017**
ISC XII 08 21 16 27±1.9 **53.8N**±.12 **161.6E**±.35 **7** **11 1-5**
KRSC XII 08 21 16 24.3 53.72N 161.94E 7 4.0b **¶97xii2018**
ISC XII 08 21 20 31±4.1 **53.8N**±.14 **161.7E**±.62 **2**±19 **10 1-3**
KRSC XII 08 21 20 28.7 53.81N 161.76E 0 3.9b **¶97xii2020**
ISC XII 08 22 07 56±2.1 **54.73N**±.070 **163.1E**±.17 **17**±16 **3.8b** **25 1-85**
KRSC XII 08 22 07 55.6 54.70N 163.13E 19 4.4b **¶97xii2023**
NEIC XII 08 22 07 58.2 54.99N 162.70E 33 4.0b
EIDC XII 08 22 08 00.8±.58 54.9N 162.8E 39±5.0 3.7b
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=29.2km semi-minor=12.0km azimuth=140
ISC XII 08 22 19 55±1.1 **53.80N**±.029 **161.70E**±.036 **30**±8.0 **5.4b,5.1s 490 1-158**
KRSC XII 08 22 19 52.3 53.71N 161.99E 7 5.4b **¶97xii2024**
EIDC XII 08 22 19 52.6±.48 53.9N 161.6E 0 5.1b,4.7s
MOS XII 08 22 19 53.6 53.9N 161.7E 17 5.9b
BJI XII 08 22 19 53.9 54.26N 161.10E 16 5.3b,5.5s
NEIC XII 08 22 19 55.7 53.84N 161.77E 33 5.5b,5.0s
HRVD XII 08 22 20 01.2±.4 53.60N±.05 162.15E±.08 19±2.3
EIDC Error ellipse is semi-major=17.6km semi-minor=10.7km azimuth=148
NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c37; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.35±.04; $M_{\theta\theta}$−0.43±.05; $M_{\phi\phi}$−0.92±.05; $M_{r\theta}$0.11±.15; $M_{r\phi}$0.07±.18; $M_{\theta\phi}$−0.50±.05. Principal Axes: T 1.36,Plg87°,Azm341°; N −0.12, Plg2°,Azm212°; P −1.24,Plg3°,Azm122°. Best double couple: $M_0$1.3×10^{17}Nm, NP1:ϕ_S210°, δ42°,λ87°. NP2:ϕ_S34°,δ48°,λ93°.
ISC XII 08 22 40 47.3±.77 **53.77N**±.054 **161.80E**±.091 **42**±7.7 **4.3b** **64 1-81**
KRSC XII 08 22 40 42.8 53.72N 161.81E 0 4.8b **¶97xii2032**
EIDC XII 08 22 40 43.0±.60 53.8N 161.8E 0 4.3b,4.2s
NEIC XII 08 22 40 46.5 53.87N 161.82E 33 4.7b
MOS XII 08 22 40 46.6 53.7N 161.8E 37 4.9b
EIDC Error ellipse is semi-major=23.0km semi-minor=11.5km azimuth=149
ISC XII 08 22 42 54±1.9 **53.9N**±.18 **161.2E**±.46 **0** **9 1-59**
KRSC XII 08 22 42 50.6 53.79N 161.73E 0 4.1b **¶97xii2033**
ISC XII 08 23 06 28.3±.87 **53.75N**±.062 **161.7E**±.14 **50**±8.5 **3.9b** **32 1-81**
EIDC XII 08 23 06 23.7±.71 53.9N 161.6E 0 3.9b,4.3L **¶97xii2036**
KRSC XII 08 23 06 26.4 53.79N 161.55E 7 4.3b
NEIC XII 08 23 06 27.1 53.99N 161.61E 33 4.4b
MOS XII 08 23 06 27.2 53.8N 161.8E 39 4.7b
EIDC Error ellipse is semi-major=28.2km semi-minor=14.8km azimuth=152
NEIC Less reliable solution.
ISC XII 08 23 10 24.4±.86 **53.87N**±.064 **161.8E**±.13 **53**±8.7 **4.0b** **36 1-81**
KRSC XII 08 23 10 20.6 53.80N 161.71E 2 4.3b **¶97xii2037**
EIDC XII 08 23 10 20.7±.81 54.3N 161.7E 0 4.0b,4.6L
MOS XII 08 23 10 23.0 53.9N 161.9E 33 4.5b
NEIC XII 08 23 10 23.6 54.28N 161.76E 33 4.2b
EIDC Error ellipse is semi-major=30.7km semi-minor=16.1km azimuth=145
NEIC Less reliable solution.
ISC XII 08 23 32 19.4±.93 **53.77N**±.071 **161.6E**±.16 **51**±9.5 **4.0b** **27 1-81**
EIDC XII 08 23 32 14.2±.75 53.8N 161.7E 0 3.9b **¶97xii2038**
KRSC XII 08 23 32 15.2 53.73N 161.65E 0 4.3b
NEIC XII 08 23 32 17.6 53.91N 161.51E 33 4.5b
MOS XII 08 23 32 18.2 53.8N 161.7E 39 4.6b
EIDC Error ellipse is semi-major=31.2km semi-minor=17.1km azimuth=140
NEIC Less reliable solution.
ISC XII 08 23 35 15±1.9 **53.78N**±.070 **161.9E**±.16 **21**±13 **4.1b**,5.1s **35 1-86**
EIDC XII 08 23 35 13.7±.74 53.8N 161.8E 0 4.1b,3.5L **¶97xii2039**
KRSC XII 08 23 35 15.9 53.81N 161.52E 13 4.3b
MOS XII 08 23 35 16.4 53.8N 161.8E 33 4.7b
NEIC XII 08 23 35 16.8 53.89N 161.71E 33 4.4b
EIDC Error ellipse is semi-major=27.1km semi-minor=15.6km azimuth=131
NEIC Less reliable solution.
ISC XII 08 23 41 27.2±.60 **53.81N**±.044 **161.65E**±.069 **48**±5.2 **4.5b,4.4s 113 1-87**
BJI XII 08 23 41 23.1 53.83N 161.59E 29 4.6b,4.6s **¶97xii2040**
KRSC XII 08 23 41 24.6 53.80N 161.80E 12 4.7b
NEIC XII 08 23 41 25.5 53.89N 161.70E 33 4.8b
MOS XII 08 23 41 26.1 53.9N 161.7E 39 5.1b
EIDC XII 08 23 41 26.2±.44 53.8N 161.7E 26±2.0 4.2b,4.2s
EIDC Error ellipse is semi-major=15.1km semi-minor=9.5km azimuth=145
ISC XII 09 00 07 06.8±.55 **53.79N**±.039 **161.56E**±.056 **41**±4.8 **4.7b,4.5s 182 1-158**
BJI XII 09 00 07 04.0 54.72N 161.64E 29 4.7b,4.9s **¶97xii2046**
KRSC XII 09 00 07 04.6 53.64N 161.86E 30 5.1b
NEIC XII 09 00 07 06.1 53.88N 161.58E 33 4.8b,4.4s
MOS XII 09 00 07 06.2 53.9N 161.5E 34 5.1b
EIDC XII 09 00 07 10.0±.43 53.9N 161.5E 53±3.9 4.3b,4.3s
EIDC Error ellipse is semi-major=14.8km semi-minor=9.0km azimuth=148
ISC XII 09 00 46 53±1.2 **53.73N**±.072 **161.9E**±.18 **41**±12 **4.0b** **24 1-74**
KRSC XII 09 00 46 51.3 53.77N 161.74E 4 4.2b **¶97xii2059**
NEIC XII 09 00 46 55.4 54.37N 161.94E 33 4.4b
EIDC XII 09 00 47 01.1±4.71 54.2N 162.0E 71±44.5 3.6b,4.1L
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=35.2km semi-minor=17.6km azimuth=151
ISC XII 09 02 19 46±1.4 **53.45N**±.042 **161.81E**±.054 **28**±9.7 **4.8b,4.7s 217 1-145**
EIDC XII 09 02 19 43.1±.47 53.6N 161.8E 0 4.6b,4.6s **¶97xii2078**
KRSC XII 09 02 19 43.9 53.35N 162.21E 44 4.8b
BJI XII 09 02 19 44.5 53.60N 162.16E 46 4.9b,5.2s
NEIC XII 09 02 19 46.4 53.54N 161.86E 33 5.0b,4.5s
MOS XII 09 02 19 46.5 53.5N 161.9E 34 5.3b
EIDC Error ellipse is semi-major=15.4km semi-minor=10.3km azimuth=152
ISC XII 09 02 31 26.1±.92 **53.71N**±.063 **161.5E**±.15 **47**±8.2 **3.8b** **31 1-81**
NEIC XII 09 02 31 24.7 53.78N 161.58E 33 4.1b **¶97xii2080**
MOS XII 09 02 31 24.8 53.7N 161.7E 40 4.8b
KRSC XII 09 02 31 25.8 53.76N 161.27E 14 4.3b
EIDC XII 09 02 31 27.6±4.50 53.7N 161.5E 42±42.7 3.7b,4.2L
EIDC Error ellipse is semi-major=27.9km semi-minor=15.8km azimuth=135
ISC XII 09 05 57 23±1.1 **53.59N**±.077 **161.9E**±.16 **16** 4.1b **15 1-63**
KRSC XII 09 05 57 20.7 53.51N 162.08E 16 3.9b **¶97xii2113**
ISC XII 09 07 09 48±1.8 **53.83N**±.097 **161.4E**±.31 **3** **11 1-4**
KRSC XII 09 07 09 47.5 53.83N 161.49E 3 3.8b **¶97xii2122**
ISC XII 09 07 41 15.6±.70 **53.71N**±.072 **162.2E**±.11 **26** **3.7b** **20 1-69**
KRSC XII 09 07 41 15.8 53.71N 162.20E 26 3.8b **¶97xii2125**
EIDC XII 09 07 41 19.9±1.68 54.0N 161.8E 38±11.5 3.4b
EIDC Error ellipse is semi-major=55.8km semi-minor=25.4km azimuth=165
ISC XII 09 07 55 39±1.0 **53.80N**±.070 **161.7E**±.16 **40**±9.8 **4.1b** **30 1-81**
KRSC XII 09 07 55 35.3 53.70N 161.79E 4 4.4b **¶97xii2129**
MOS XII 09 07 55 38.9 53.9N 161.6E 33 4.5b
NEIC XII 09 07 55 38.9 53.93N 161.65E 33 4.4b
EIDC XII 09 07 55 43.8±.99 53.9N 161.7E 60±8.8 3.9b,3.7s
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=31.0km semi-minor=13.5km azimuth=148Aftershock: abbreviated analysis
ISC XII 09 08 10 19±2.4 **53.65N**±.090 **162.6E**±.14 **16**±18 **4.0b** **22 1-81**
KRSC XII 09 08 10 19.6 53.60N 162.62E 41 3.8b **¶97xii2131**
NEIC XII 09 08 10 21.3 53.84N 162.42E 33
EIDC XII 09 08 10 23.7±.75 53.8N 162.4E 36±5.4 3.7b
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=26.5km semi-minor=15.0km azimuth=155Aftershock: abbreviated analysis
ISC XII 09 08 23 02.3±.55 **54.01N**±.086 **163.90E**±.099 **40** **4.0b** **24 1-82**
EIDC XII 09 08 22 59.1±.76 54.0N 164.2E 0 4.0b **¶97xii2133**
KRSC XII 09 08 22 59.8 53.91N 164.20E 40 4.4b
NEIC XII 09 08 23 02.0 54.04N 164.13E 33 4.2b
EIDC Error ellipse is semi-major=31.7km semi-minor=15.5km azimuth=150Aftershock: abbreviated analysis
NEIC Less reliable solution.
ISC XII 09 09 31 01±2.4 **53.7N**±.12 **161.8E**±.38 **4** **11 1-3**
KRSC XII 09 09 31 00.2 53.78N 161.77E 4 3.8b **¶97xii2140**
ISC XII 09 09 34 39.9±.94 **53.75N**±.066 **162.0E**±.15 **0** **3.8b** **15 1-81**
KRSC XII 09 09 34 39.3 53.77N 161.87E 0 4.0b **¶97xii2141**
EIDC XII 09 09 34 42.3±1.06 55.4N 160.9E 0 3.7b
EIDC Error ellipse is semi-major=90.1km semi-minor=24.2km azimuth=156Aftershock: abbreviated analysis
ISC XII 09 09 37 02±4.2 **53.8N**±.16 **161.8E**±.65 **9** **8 1-3**
KRSC XII 09 09 37 00.3 53.79N 161.93E 9 3.7b **¶97xii2142**
ISC XII 09 09 38 15±1.2 **53.4N**±.45 **161.1E**±.59 **33** **3.6b** **4 43-77**
EIDC XII 09 09 38 12.1±1.43 53.1N 161.2E 0 3.7b **¶97xii2144**
ISC Poorly determined
EIDC Error ellipse is semi-major=82.2km semi-minor=33.7km azimuth=158Aftershock: abbreviated analysis

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**09 09 48 06.0**±.73	**53.72N**±.060	**162.1E**±.13	**0**	**3.7b**	**18**	**1-77**
KRSC	XII	09 09 48 06.4	53.78N	161.94E	0	3.9b		¶97xii2146
EIDC	XII	09 09 48 07.5±.88	54.0N	161.8E	0	3.6b		
EIDC	Error ellipse is semi−major=41.7km semi−minor=19.0km azimuth=147Aftershock: abbreviated analysis							
ISC	**XII**	**09 10 26 20.0**±.98	**53.75N**±.067	**162.2E**±.15	**2**	**3.7b**	**17**	**1-69**
EIDC	XII	09 10 26 20.9±1.37	54.0N	162.1E	0	3.7b		¶97xii2154
KRSC	XII	09 10 26 22.5	53.87N	161.78E	2	4.0b		
EIDC	Error ellipse is semi−major=48.7km semi−minor=26.2km azimuth=145Aftershock: abbreviated analysis							
ISC	**XII**	**09 10 38 15**±1.0	**53.69N**±.066	**161.7E**±.16	**44**±7.9	**3.9b**	**35**	**1-81**
KRSC	XII	09 10 38 11.2	53.51N	161.97E	24	4.5b		¶97xii2155
NEIC	XII	09 10 38 13.7	53.78N	161.67E	33	4.3b		
MOS	XII	09 10 38 15.1	53.8N	161.6E	33	4.8b		
EIDC	XII	09 10 38 16.0±.61	53.7N	161.6E	37±5.8	3.9b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=22.5km semi−minor=12.5km azimuth=142Aftershock: abbreviated analysis							
ISC	**XII**	**09 10 41 04**±2.2	**53.7N**±.13	**161.5E**±.36	**11**		**11**	**1-3**
KRSC	XII	09 10 41 04.2	53.75N	161.55E	11	3.9b		¶97xii2156
ISC	**XII**	**09 11 40 24.5**±.79	**53.76N**±.070	**161.2E**±.18	**29**	**3.6b**	**17**	**1-81**
EIDC	XII	09 11 40 20.4±1.09	53.9N	160.9E	0	3.6b		¶97xii2161
KRSC	XII	09 11 40 26.0	53.87N	160.93E	29	4.0b		
EIDC	Error ellipse is semi−major=44.5km semi−minor=26.6km azimuth=123Aftershock: abbreviated analysis							
ISC	**XII**	**09 11 56 05.2**±.61	**54.81N**±.079	**163.2E**±.11	**13**	**3.5b**	**16**	**1-68**
KRSC	XII	09 11 56 04.9	54.80N	163.14E	13	4.2b		¶97xii2162
EIDC	XII	09 11 56 08.1	55.3N	163.4E	0	3.5b		
EIDC	Origin time error = 16.79Error ellipse is semi−major=400.0km semi−minor=99.2km azimuth=94Aftershock: abbreviated analysis							
ISC	**XII**	**09 12 38 10**±1.2	**53.67N**±.085	**161.6E**±.21	**49**±10	**3.7b**	**25**	**1-81**
KRSC	XII	09 12 38 07.4	53.67N	161.43E	0	4.2b		¶97xii2168
MOS	XII	09 12 38 08.2	53.6N	161.8E	33	4.7b		
NEIC	XII	09 12 38 08.5	53.76N	161.65E	33			
EIDC	XII	09 12 38 12.2±1.08	53.7N	161.7E	50±9.0	3.5b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=27.3km semi−minor=17.1km azimuth=127Aftershock: abbreviated analysis							
ISC	**XII**	**09 12 41 00**±1.8	**54.49N**±.061	**163.0E**±.13	**20**±13	**4.0b**	**35**	**1-86**
KRSC	XII	09 12 40 58.7	54.44N	163.28E	26	4.5b		¶97xii2169
NEIC	XII	09 12 41 02.1	54.62N	162.74E	33	4.2b		
MOS	XII	09 12 41 02.4	54.5N	162.9E	38	4.8b		
EIDC	XII	09 12 41 03.4±1.09	54.5N	162.8E	29±6.6	3.9b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=26.2km semi−minor=14.8km azimuth=141Aftershock: abbreviated analysis							
ISC	**XII**	**09 13 02 46.3**±.88	**53.92N**±.031	**161.84E**±.042	**24**±6.1	**5.2b,5.0s**	**385**	**1-145**
EIDC	XII	09 13 02 44.0±.49	54.0N	161.8E	0	4.9b,4.8s		¶97xii2171
BJI	XII	09 13 02 44.8	54.61N	161.74E	26	5.1b,5.6s		
KRSC	XII	09 13 02 45.0	53.88N	162.08E	19	5.3b		
NEIC	XII	09 13 02 47.5	53.97N	161.90E	33	5.4b,4.8s		
MOS	XII	09 13 02 48.2	54.0N	161.8E	42	5.7b		
HRVD	XII	09 13 02 52.8±.6	53.83N±.07	162.17E±.10	17±2.9			
EIDC	Error ellipse is semi−major=16.1km semi−minor=10.5km azimuth=153Aftershock: abbreviated analysis							
NEIC	Mw5.3(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c32; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}8.34±.30; $M_{\theta\theta}$−2.06±.40; $M_{\phi\phi}$−6.28±.43; $M_{r\theta}$1.89±1.22; $M_{r\phi}$3.31±1.40; $M_{\theta\phi}$−1.75±.40. Principal Axes: T 9.25,Plg76°,Azm305°; N −1.46,Plg3°,Azm201°; P −7.79,Plg13°,Azm111°. Best double couple: $M_0$8.5×10^{16}Nm, NP1: ϕ_S196°,δ32°,λ84°. NP2:ϕ_S23°,δ58°,λ94°.							
ISC	**XII**	**09 13 39 07.0**±.59	**53.71N**±.057	**162.1E**±.10	**0**	**3.6b**	**20**	**1-81**
KRSC	XII	09 13 39 06.7	53.74N	162.01E	0	4.0b		¶97xii2178
EIDC	XII	09 13 39 13.5±.88	53.9N	161.8E	31±6.7	3.4b		
EIDC	Error ellipse is semi−major=49.8km semi−minor=16.3km azimuth=148Aftershock: abbreviated analysis							
ISC	**XII**	**09 18 04 17**±1.1	**53.84N**±.077	**161.8E**±.19	**56**±9.2	**3.9b**	**27**	**1-81**
NEIC	XII	09 18 04 14.6	54.02N	161.89E	33	4.0b		¶97xii2211
EIDC	XII	09 18 04 15.1±.90	53.9N	162.2E	28±4.6	3.8b,3.5s		
MOS	XII	09 18 04 16.7	54.0N	161.6E	33	4.5b		
KRSC	XII	09 18 04 25.0	54.41N	161.57E	35	3.9b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=29.0km semi−minor=17.6km azimuth=106Aftershock: abbreviated analysis							
EIDC	**XII**	**09 18 35 46.4**±2.28	**53.9N**	**162.2E**	**0**	**3.9b**		**60-81**
EIDC	Error ellipse is semi−major=77.9km semi−minor=33.7km azimuth=89							¶97xii2215
ISC	**XII**	**09 19 15 10**±1.5	**54.75N**±.070	**163.2E**±.12	**18**±12	**3.9b**	**26**	**1-85**
KRSC	XII	09 19 15 09.5	54.76N	163.21E	19	4.3b		¶97xii2222
NEIC	XII	09 19 15 11.7	54.90N	162.92E	33	4.3b		
EIDC	XII	09 19 15 14.2±.81	54.9N	163.0E	39±7.7	3.6b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=41.4km semi−minor=14.7km azimuth=132							
ISC	**XII**	**09 19 17 02**±1.0	**54.67N**±.089	**163.2E**±.14	**13**		**10**	**1-3**
KRSC	XII	09 19 17 02.4	54.77N	163.12E	13	4.0b		¶97xii2223
ISC	**XII**	**09 19 26 54.0**±.64	**53.74N**±.043	**161.54E**±.077	**41**±5.4	**4.6b,4.3s**	**107**	**1-145**
BJI	XII	09 19 26 51.6	54.04N	161.96E	51	4.8b,4.3s		¶97xii2226
NEIC	XII	09 19 26 53.3	53.86N	161.53E	33	4.7b		
KRSC	XII	09 19 26 53.3	53.67N	161.70E	43	4.7b		
MOS	XII	09 19 26 53.4	53.8N	161.6E	33	4.9b		
EIDC	XII	09 19 26 56.6±.59	53.8N	161.5E	45±5.3	4.3b		
EIDC	Error ellipse is semi−major=15.2km semi−minor=10.6km azimuth=140							
ISC	**XII**	**09 20 55 37**±1.0	**53.65N**±.078	**162.3E**±.16	**22**	**3.8b,**3.0s	**19**	**1-74**
KRSC	XII	09 20 55 38.1	53.71N	162.06E	22	4.1b		¶97xii2236
EIDC	XII	09 20 55 41.3±2.35	54.5N	160.6E	0	3.9b,3.3s		
EIDC	Error ellipse is semi−major=67.0km semi−minor=28.9km azimuth=141							
ISC	**XII**	**09 22 21 14**±1.1	**53.77N**±.076	**161.7E**±.18	**53**±10	**3.9b**	**24**	**1-77**
NEIC	XII	09 22 21 11.9	53.86N	161.72E	33	4.2b		¶97xii2248
KRSC	XII	09 22 21 12.4	53.80N	161.67E	12	4.1b		
EIDC	XII	09 22 21 14.4±1.23	53.8N	161.8E	37±10.2	3.7b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=27.7km semi−minor=18.8km azimuth=147							
ISC	**XII**	**10 01 46 09.7**±.63	**53.95N**±.047	**161.57E**±.081	**50**±5.1	**4.4b,3.9s**	**97**	**1-114**
EIDC	XII	10 01 46 04.8±.59	54.0N	161.6E	0	4.3b,3.9s		¶97xii2276
BJI	XII	10 01 46 05.7	54.16N	161.68E	36	4.7b,4.6s		
MOS	XII	10 01 46 07.7	53.9N	161.9E	34	5.0b		
KRSC	XII	10 01 46 08.1	53.92N	161.56E	14	4.7b		
NEIC	XII	10 01 46 08.3	54.09N	161.62E	33	4.6b		
EIDC	Error ellipse is semi−major=19.1km semi−minor=13.2km azimuth=141Aftershock: abbreviated analysis							
ISC	**XII**	**10 03 19 56.7**±.81	**53.52N**±.056	**161.69E**±.098	**43**±6.2	**4.3b,4.1s**	**77**	**1-114**
KRSC	XII	10 03 19 52.8	53.37N	162.08E	20	4.6b		¶97xii2284
BJI	XII	10 03 19 53.0	53.42N	161.46E	19	4.6b,4.8s		
MOS	XII	10 03 19 55.3	53.5N	161.9E	34	4.8b		
NEIC	XII	10 03 19 55.7	53.55N	161.82E	33	4.6b,4.3s		
EIDC	XII	10 03 19 59.0±.50	53.5N	161.7E	48±4.3	3.9b,4.0s		
EIDC	Error ellipse is semi−major=16.2km semi−minor=10.6km azimuth=141Aftershock: abbreviated analysis							
ISC	**XII**	**10 04 01 32.6**±.97	**53.60N**±.076	**161.6E**±.15	**51**±6.6	**4.0b**	**42**	**1-77**
KRSC	XII	10 04 01 27.3	53.41N	161.95E	8	4.4b		¶97xii2286
BJI	XII	10 04 01 29.2	53.42N	161.28E	22	4.5b		
MOS	XII	10 04 01 31.0	53.6N	161.9E	33	4.7b		
NEIC	XII	10 04 01 31.0	53.71N	161.61E	33	4.5b		
EIDC	XII	10 04 01 34.4±.61	53.6N	161.6E	49±5.1	3.8b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=20.2km semi−minor=11.8km azimuth=149							
ISC	**XII**	**10 05 19 08.4**±.95	**53.55N**±.068	**161.6E**±.14	**47**±7.3	**3.8b,**4.7s	**37**	**1-131**
BJI	XII	10 05 19 05.3	53.60N	161.50E	33	4.2b		¶97xii2297
KRSC	XII	10 05 19 05.6	53.40N	161.95E	40	4.4b		
MOS	XII	10 05 19 05.9	53.6N	161.7E	25	4.6b		
NEIC	XII	10 05 19 07.3	53.67N	161.57E	33	4.5b		
EIDC	XII	10 05 19 10.6±.71	53.5N	161.6E	49±6.4	3.6b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=24.4km semi−minor=14.0km azimuth=149							
ISC	**XII**	**10 05 45 59**±1.2	**53.51N**±.085	**161.7E**±.18	**49**±8.1	**4.0b**	**30**	**1-81**
EIDC	XII	10 05 45 55.2±.93	53.6N	161.9E	0	3.9b		¶97xii2301
KRSC	XII	10 05 45 56.3	53.55N	161.57E	0	4.2b		
NEIC	XII	10 05 45 58.4	53.69N	161.85E	33	4.2b		
EIDC	Error ellipse is semi−major=31.7km semi−minor=17.4km azimuth=144							
NEIC	Less reliable solution.							
ISC	**XII**	**10 06 02 08**±1.0	**53.57N**±.077	**161.4E**±.16	**53**±7.7	**3.8b**	**30**	**1-81**
KRSC	XII	10 06 02 02.5	53.41N	161.90E	9	4.2b		¶97xii2304
NEIC	XII	10 06 02 06.3	53.67N	161.39E	33	3.7b		
EIDC	XII	10 06 02 09.0±.79	53.5N	161.4E	39±7.6	3.6b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=27.3km semi−minor=15.1km azimuth=140							
ISC	**XII**	**10 06 07 05**±3.2	**53.7N**±.15	**161.5E**±.49	**0**		**10**	**1-3**
KRSC	XII	10 06 07 04.9	53.71N	161.49E	0	3.7b		¶97xii2305
ISC	**XII**	**10 06 27 24**±1.1	**53.50N**±.082	**161.7E**±.17	**49**±8.7	**4.0b**	**28**	**1-81**
KRSC	XII	10 06 27 21.1	53.45N	161.82E	9	4.3b		¶97xii2307
NEIC	XII	10 06 27 22.9	53.54N	161.71E	33			
EIDC	XII	10 06 27 26.1±.58	53.4N	161.7E	43±5.4	3.7b,3.8s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=24.3km semi−minor=13.7km azimuth=148							
ISC	**XII**	**10 06 47 54**±1.2	**53.74N**±.081	**161.9E**±.19	**47**±9.6	**4.0b**	**24**	**1-74**
KRSC	XII	10 06 47 51.2	53.71N	162.00E	7	4.0b		¶97xii2309
EIDC	XII	10 06 47 51.7±1.29	54.0N	162.0E	0	4.0b		
MOS	XII	10 06 47 52.6	53.8N	162.1E	33	4.5b		
NEIC	XII	10 06 47 54.7	54.12N	161.94E	33	4.4b		
EIDC	Error ellipse is semi−major=38.6km semi−minor=17.8km azimuth=153							
NEIC	Less reliable solution.							
ISC	**XII**	**10 08 27 08**±3.4	**54.70N**±.092	**163.0E**±.46	**17**		**10**	**1-4**
KRSC	XII	10 08 27 07.2	54.74N	163.17E	17	3.8b		¶97xii2315
ISC	**XII**	**10 08 39 47**±4.1	**54.74N**±.074	**163.2E**±.14	**15**±27	**3.9b**	**19**	**1-82**
EIDC	XII	10 08 39 46.6±1.30	54.8N	162.9E	0	3.8b		¶97xii2320
KRSC	XII	10 08 39 47.8	54.76N	163.18E	17	4.3b		
NEIC	XII	10 08 39 52.0	55.24N	163.15E	33			
EIDC	Error ellipse is semi−major=44.3km semi−minor=30.1km azimuth=142							
NEIC	Poor solution.							
ISC	**XII**	**10 08 48 33**±1.8	**54.76N**±.066	**163.1E**±.13	**23**±14	**3.7b**	**22**	**1-82**
EIDC	XII	10 08 48 31.1±.82	54.8N	162.7E	0	3.8b		¶97xii2321
KRSC	XII	10 08 48 31.6	54.75N	163.16E	12	4.5b		
NEIC	XII	10 08 48 34.3	54.89N	162.68E	33			
EIDC	Error ellipse is semi−major=30.5km semi−minor=19.8km azimuth=143Aftershock: abbreviated analysis							
NEIC	Single network solution.							
ISC	**XII**	**10 10 13 57**±3.1	**53.5N**±.17	**161.8E**±.50	**51**±20	4.1b	**13**	**1-63**
KRSC	XII	10 10 13 54.9	53.43N	161.96E	23	3.8b		¶97xii2330
ISC	**XII**	**10 10 24 17.0**±.99	**54.75N**±.085	**163.2E**±.14	**13**		**13**	**1-5**
KRSC	XII	10 10 24 17.1	54.75N	163.14E	13	4.1b		¶97xii2331
ISC	**XII**	**10 11 45 30**±1.1	**53.86N**±.065	**161.8E**±.16	**40**±11	**3.8b**	**28**	**1-81**
KRSC	XII	10 11 45 25.2	53.76N	162.08E	3	4.3b		¶97xii2340
EIDC	XII	10 11 45 26.4±.70	53.8N	161.8E	0	3.9b		
NEIC	XII	10 11 45 29.4	53.86N	161.86E	33	4.0b		
EIDC	Error ellipse is semi−major=30.2km semi−minor=14.6km azimuth=147							
NEIC	Less reliable solution.							
ISC	**XII**	**10 11 47 17**±3.2	**53.7N**±.14	**161.9E**±.52	**31**		**13**	**1-5**
KRSC	XII	10 11 47 15.8	53.64N	162.08E	31	4.2b		¶97xii2341
ISC	**XII**	**10 12 17 44.0**±.66	**53.80N**±.071	**162.1E**±.12	**29**	**3.5b**	**19**	**1-86**
EIDC	XII	10 12 17 41.0±1.28	53.9N	161.6E	0	3.6b		¶97xii2347
KRSC	XII	10 12 17 43.4	53.76N	162.00E	29	3.9b		
NEIC	XII	10 12 17 44.3	54.01N	161.66E	33	3.1b		
EIDC	Error ellipse is semi−major=41.4km semi−minor=30.3km azimuth=145							
NEIC	Poor solution.							
ISC	**XII**	**10 13 46 02.3**±.66	**53.60N**±.050	**161.37E**±.085	**50**±5.3	**4.5b,**4.0s	**78**	**1-82**
EIDC	XII	10 13 45 57.6±.59	53.7N	161.4E	0	4.4b,3.8s		¶97xii2363
KRSC	XII	10 13 45 58.5	53.41N	161.87E	26	4.6b		
BJI	XII	10 13 46 00.6	53.60N	161.50E	33	4.6b,4.3s		
NEIC	XII	10 13 46 00.6	53.65N	161.49E	33	4.7b		
MOS	XII	10 13 46 01.2	53.8N	161.3E	31	4.9b		
EIDC	Error ellipse is semi−major=21.3km semi−minor=11.5km azimuth=146							
ISC	**XII**	**10 15 33 26**±2.9	**53.8N**±.12	**161.6E**±.35	**4**±16		**11**	**1-3**
KRSC	XII	10 15 33 23.7	53.78N	161.79E	0	3.7b		¶97xii2376
ISC	**XII**	**10 15 39 45**±2.9	**54.74N**±.077	**163.3E**±.20	**18**±23	**3.5b**	**18**	**1-68**
EIDC	XII	10 15 39 41.7±1.91	52.1N	165.6E	31±7.6	3.5b		¶97xii2379
KRSC	XII	10 15 39 45.3	54.74N	163.20E	17	4.1b		
EIDC	Error ellipse is semi−major=96.6km semi−minor=24.7km azimuth=154							
ISC	**XII**	**10 18 16 37**±3.6	**54.7N**±.10	**163.5E**±.53	**41**		**10**	**1-4**
KRSC	XII	10 18 16 37.1	54.66N	163.54E	41	3.9b		¶97xii2401
ISC	**XII**	**10 18 38 38**±3.1	**54.0N**±.12	**161.4E**±.38	**19**±27		**11**	**1-5**
KRSC	XII	10 18 38 37.5	54.01N	161.43E	22	3.7b		¶97xii2404
ISC	**XII**	**10 19 08 57**±4.0	**54.7N**±.11	**163.6E**±.62	**40**		**9**	**1-4**
KRSC	XII	10 19 09 00.6	54.79N	163.19E	40	3.9b		¶97xii2411
ISC	**XII**	**10 19 46 16**±3.1	**54.79N**±.069	**163.1E**±.18	**22**±24	**3.9b**	**24**	**1-85**
KRSC	XII	10 19 46 16.1	54.74N	163.35E	40	4.4b		¶97xii2416
NEIC	XII	10 19 46 18.0	55.02N	162.87E	33			
EIDC	XII	10 19 46 20.8±.78	55.0N	162.9E	39±6.2	3.8b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=33.0km semi−minor=14.3km azimuth=149Aftershock: abbreviated analysis							

ISC XII 10 21 28 51±3.4 **53.4N**±.16 **162.6E**±.47 **0** 4.2b **10 1-60**
KRSC XII 10 21 28 59.7 53.71N 161.28E 0 3.8b **¶97xii2429**
ISC XII 11 00 21 32±1.7 **52.3N**±.17 **161.3E**±.20 **0** **4.0b** **16 1-79**
KRSC XII 11 00 21 34.5 52.49N 161.04E 0 4.2b **¶97xii2450**
EIDC XII 11 00 21 41.4±2.59 53.5N 161.6E 0 3.9b
NEIC XII 11 00 21 44.7 53.61N 161.46E 33 3.9b
EIDC Error ellipse is semi−major=80.4km semi−minor=26.0km azimuth=107
NEIC Poor solution.
ISC XII 11 00 29 44.0±.77 **53.87N**±.049 **161.95E**±.086 **36**±6.7 **4.3b,4.6s** **74 1-86**
KRSC XII 11 00 29 39.4 53.75N 162.16E 3 4.8b **¶97xii2452**
BJI XII 11 00 29 39.8 54.18N 161.62E 9 4.6b,4.8s
MOS XII 11 00 29 44.0 53.9N 162.0E 38 4.8b,4.4s
NEIC XII 11 00 29 44.0 53.95N 162.13E 33 4.6b
EIDC XII 11 00 29 46.7±.82 54.0N 162.0E 40±7.5 4.0b,4.2s
EIDC Error ellipse is semi−major=18.0km semi−minor=11.4km azimuth=147
ISC XII 11 00 35 18±3.0 **53.9N**±.14 **161.6E**±.53 **0** **8 1-2**
KRSC XII 11 00 35 15.7 53.88N 161.64E 0 3.8b **¶97xii2453**
ISC XII 11 01 20 03.6±.95 **53.92N**±.070 **161.7E**±.16 **53**±9.0 **3.9b** **28 1-77**
EIDC XII 11 01 19 58.7±.92 54.0N 161.7E 0 3.8b **¶97xii2462**
MOS XII 11 01 20 01.3 54.0N 161.8E 33 4.5b
KRSC XII 11 01 20 01.5 53.92N 161.56E 3 4.0b
NEIC XII 11 01 20 01.7 54.06N 161.66E 33 4.2b
EIDC Error ellipse is semi−major=28.5km semi−minor=19.1km azimuth=148
NEIC Less reliable solution.
ISC XII 11 03 30 07±3.8 **54.80N**±.069 **163.1E**±.13 **15**±26 **4.0b** **24 1-82**
KRSC XII 11 03 30 07.6 54.80N 163.05E 22 4.2b **¶97xii2479**
NEIC XII 11 03 30 08.9 55.02N 162.63E 33 4.0b
EIDC XII 11 03 30 11.7±1.52 55.0N 162.9E 37±7.9 3.8b
NEIC Poor solution.
EIDC Error ellipse is semi−major=34.0km semi−minor=28.4km azimuth=146
ISC XII 11 07 17 43.8±.97 **53.93N**±.093 **161.1E**±.23 **39**±10 **3.9b** **20 1-70**
MOS XII 11 07 17 39.3 53.7N 162.0E 33 4.5b **¶97xii2514**
KRSC XII 11 07 17 40.9 53.74N 161.68E 21 4.1b
EIDC XII 11 07 17 41.3±1.22 54.2N 160.9E 0 3.9b
NEIC XII 11 07 17 44.2 54.27N 160.82E 33 4.2b
EIDC Error ellipse is semi−major=45.4km semi−minor=23.6km azimuth=146
NEIC Less reliable solution.
ISC XII 11 09 14 07.3±.62 **54.90N**±.071 **163.1E**±.11 **20** **3.7b** **19 1-68**
KRSC XII 11 09 14 07.0 54.90N 163.13E 20 4.1b **¶97xii2529**
EIDC XII 11 09 14 24.9±4.48 57.1N 164.9E 0 3.8b
EIDC Error ellipse is semi−major=106.4km semi−minor=32.1km azimuth=13
ISC XII 11 10 25 59.9±.65 **54.82N**±.074 **163.1E**±.11 **15** **3.7b** **16 1-82**
KRSC XII 11 10 25 59.9 54.84N 163.04E 15 4.0b **¶97xii2545**
EIDC XII 11 10 26 02.5±2.40 55.0N 163.6E 0 3.7b
EIDC Error ellipse is semi−major=172.4km semi−minor=30.9km azimuth=130
ISC XII 11 13 48 44.4±.98 **53.95N**±.088 **161.1E**±.23 **51**±17 3.0b **12 1-42**
KRSC XII 11 13 48 45.4 54.03N 161.00E 35 3.7b **¶97xii2577**
ISC XII 11 15 52 21.7±.83 **53.83N**±.069 **161.6E**±.13 **40**±9.2 **3.6b** **23 1-70**
EIDC XII 11 15 52 18.3±1.39 53.9N 161.5E 0 3.7b **¶97xii2596**
NEIC XII 11 15 52 20.9 53.90N 161.55E 33
KRSC XII 11 15 52 22.1 53.87N 161.52E 27 4.1b
EIDC Error ellipse is semi−major=46.8km semi−minor=17.3km azimuth=168
NEIC Poor solution.
ISC XII 12 01 10 00.2±.65 **54.71N**±.076 **163.1E**±.11 **20** **3.6b** **16 1-85**
EIDC XII 12 01 09 59.6±4.02 55.0N 162.7E 0 3.7b **¶97xii2676**
KRSC XII 12 01 10 00.4 54.74N 163.04E 20 4.1b
EIDC Error ellipse is semi−major=105.5km semi−minor=54.6km azimuth=1
ISC XII 12 04 54 22±2.7 **53.9N**±.16 **161.4E**±.57 **16**±21 **10 1-2**
KRSC XII 12 04 54 22.9 53.94N 161.30E 20 3.9b **¶97xii2695**
ISC XII 12 04 58 23±2.4 **53.8N**±.14 **161.3E**±.46 **18** **11 1-4**
KRSC XII 12 04 58 23.8 53.90N 161.21E 18 3.7b **¶97xii2696**
ISC XII 12 05 29 47±6.8 **54.80N**±.078 **163.1E**±.25 **10**±44 **3.9b** **18 1-85**
EIDC XII 12 05 29 47.1±3.53 55.0N 162.8E 0 3.9b,2.7s **¶97xii2700**
KRSC XII 12 05 29 47.7 54.79N 163.10E 22 4.1b
NEIC XII 12 05 29 51.1 55.20N 162.94E 33 3.6b
EIDC Error ellipse is semi−major=90.5km semi−minor=33.1km azimuth=14
NEIC Poor solution.
ISC XII 12 08 42 30±3.2 **53.8N**±.12 **161.8E**±.38 **7**±17 **11 1-3**
KRSC XII 12 08 42 29.2 53.82N 161.85E 6 4.0b **¶97xii2720**
EIDC XII 12 15 19 54.9 **54.4N** **163.1E** **0** **3.6b** **27-69**
¶97xii2772
EIDC Origin time error = 16.77Error ellipse is semi−major=404.1km semi−minor=90.8km azimuth=91
ISC XII 12 16 07 39±1.9 **53.5N**±.12 **161.2E**±.33 **1** **12 1-4**
KRSC XII 12 16 07 38.1 53.52N 161.14E 1 3.8b **¶97xii2778**
ISC XII 12 21 41 32±1.6 **54.75N**±.062 **163.1E**±.11 **22**±12 **4.1b** **38 1-139**
KRSC XII 12 21 41 31.3 54.71N 163.12E 24 4.5b **¶97xii2822**
NEIC XII 12 21 41 33.1 54.89N 162.76E 33 4.2b
MOS XII 12 21 41 34.3 55.0N 162.4E 35 4.5b
EIDC XII 12 21 41 36.8±.58 54.8N 162.8E 50±5.0 3.8b,3.6s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=24.9km semi−minor=14.4km azimuth=145
ISC XII 13 03 05 37±1.7 **53.5N**±.13 **161.4E**±.29 **49**±12 **3.7b** **17 1-70**
KRSC XII 13 03 05 34.6 53.31N 161.90E 40 3.8b **¶97xii2867**
NEIC XII 13 03 05 35.6 53.70N 161.57E 33
EIDC XII 13 03 05 38.3±1.10 53.5N 161.7E 41±8.1 3.5b
NEIC Poor solution.
EIDC Error ellipse is semi−major=38.1km semi−minor=21.8km azimuth=150
ISC XII 13 04 09 11±1.5 **53.71N**±.093 **161.8E**±.25 **20** 3.0b **11 1-42**
KRSC XII 13 04 09 12.4 53.82N 161.48E 20 3.9b **¶97xii2879**
ISC XII 13 07 04 50±1.2 **53.89N**±.080 **161.5E**±.24 **40**±10 **4.1b** **27 1-87**
BJI XII 13 07 04 42.5 54.30N 162.40E 33 4.9b,5.2s **¶97xii2908**
NEIC XII 13 07 04 44.5 54.29N 162.40E 33 4.4b
MOS XII 13 07 04 47.2 53.9N 161.9E 34 4.5b
EIDC XII 13 07 04 47.6±1.16 54.3N 162.4E 43±9.7 3.9b
KRSC XII 13 07 04 48.5 53.90N 161.38E 9 4.3b
NEIC Poor solution.
EIDC Error ellipse is semi−major=39.1km semi−minor=24.3km azimuth=134Multiple, mixed az
ISC XII 13 15 50 24.6±.74 **53.48N**±.054 **161.40E**±.097 **49**±5.7 **4.2b,4.0s** **70 1-114**
EIDC XII 13 15 50 19.8±.61 53.5N 161.5E 0 4.1b,3.9s **¶97xii2971**
KRSC XII 13 15 50 22.2 53.31N 161.81E 41 4.5b
MOS XII 13 15 50 22.3 53.4N 161.6E 29 4.9b,4.0s
NEIC XII 13 15 50 22.9 53.56N 161.49E 33 4.7b,4.1s
BJI XII 13 15 50 23.1 53.94N 160.64E 17 4.6b,4.3s
EIDC Error ellipse is semi−major=19.0km semi−minor=12.4km azimuth=140
ISC XII 13 15 53 42±1.5 **53.3N**±.11 **161.9E**±.20 **39**±19 **13 1-60**
KRSC XII 13 15 53 42.7 53.32N 161.78E 40 3.9b **¶97xii2973**
ISC XII 13 22 40 59.3±.65 **53.52N**±.050 **161.20E**±.084 **54**±4.8 **4.4b,4.1s** **117 1-86**
EIDC XII 13 22 40 53.7±.68 53.5N 161.3E 0 4.1b,3.7s **¶97xii3030**
BJI XII 13 22 40 55.3 53.62N 161.05E 24 4.7b,4.5s
KRSC XII 13 22 40 55.6 53.35N 161.73E 27 4.7b
NEIC XII 13 22 40 57.0 53.60N 161.28E 33 4.7b,4.1s
MOS XII 13 22 40 57.8 53.7N 161.3E 33 4.9b,4.2s
EIDC Error ellipse is semi−major=20.9km semi−minor=12.9km azimuth=143
ISC XII 14 04 10 59.4±.56 **53.85N**±.037 **161.65E**±.052 **43**±4.8 **4.7b,4.8s** **258 1-145**
BJI XII 14 04 10 56.0 54.12N 161.05E 9 4.8b,5.0s **¶97xii3083**
KRSC XII 14 04 10 56.1 53.82N 161.64E 0 5.1b
MOS XII 14 04 10 58.2 54.0N 161.5E 31 5.4b,4.8s
NEIC XII 14 04 10 58.4 53.93N 161.74E 33 4.9b,4.7s
EIDC XII 14 04 11 00.9±.37 53.9N 161.8E 40±2.7 4.2b,4.9s
EIDC Error ellipse is semi−major=11.6km semi−minor=8.1km azimuth=152
ISC XII 14 04 12 25.4±.78 **53.90N**±.055 **161.77E**±.086 **42**±7.2 **4.5b** **76 1-145**
KRSC XII 14 04 12 22.6 53.79N 161.83E 6 4.7b **¶97xii3086**
NEIC XII 14 04 12 24.2 53.93N 161.79E 33 4.7b
MOS XII 14 04 12 24.3 53.9N 161.8E 33 4.9b
EIDC XII 14 04 12 26.9±.46 53.8N 161.9E 40±3.0 4.2b,4.6L
EIDC Error ellipse is semi−major=13.6km semi−minor=10.4km azimuth=145
ISC XII 14 12 01 14±1.6 **53.92N**±.091 **161.5E**±.30 **21** **13 1-5**
KRSC XII 14 12 01 14.4 53.97N 161.41E 21 4.0b **¶97xii3142**
ISC XII 14 16 51 50.6±.67 **53.73N**±.094 **162.2E**±.12 **0** **4.0b** **22 1-74**
KRSC XII 14 16 51 48.9 53.78N 162.28E 0 4.4b **¶97xii3171**
EIDC XII 14 16 51 58.3±1.06 54.1N 162.1E 23±4.9 3.8b
EIDC Error ellipse is semi−major=33.2km semi−minor=19.2km azimuth=159
ISC XII 15 10 45 10±1.9 **53.99N**±.099 **161.5E**±.31 **23**±17 **11 1-3**
KRSC XII 15 10 45 11.7 54.08N 161.31E 26 4.0b **¶97xii3272**
ISC XII 15 15 22 12±1.4 **53.65N**±.097 **161.8E**±.19 **47**±11 **3.5b** **19 1-70**
EIDC XII 15 15 22 08.9±1.57 54.0N 161.7E 0 3.6b **¶97xii3300**
KRSC XII 15 15 22 10.7 53.60N 161.99E 41 3.8b
NEIC XII 15 15 22 11.9 53.93N 161.69E 33 4.3b
MOS XII 15 15 22 12.4 53.8N 161.8E 33 4.8b
EIDC Error ellipse is semi−major=50.8km semi−minor=21.5km azimuth=170
NEIC Poor solution.
ISC XII 15 16 06 09.3±.74 **53.92N**±.058 **161.6E**±.12 **47**±6.2 **4.1b**,3.5s **36 1-81**
EIDC XII 15 16 06 05.6±.87 54.1N 161.5E 0 4.0b,3.5s **¶97xii3308**
NEIC XII 15 16 06 08.6 54.02N 161.53E 33 4.4b
MOS XII 15 16 06 08.7 54.0N 161.6E 32 4.6b
KRSC XII 15 16 06 09.3 53.91N 161.63E 32 4.3b
EIDC Error ellipse is semi−major=28.0km semi−minor=15.2km azimuth=145
NEIC Less reliable solution.
ISC XII 15 21 38 30±1.0 **53.61N**±.084 **161.1E**±.20 **52**±8.1 **3.9b** **18 1-80**
KRSC XII 15 21 38 25.6 53.56N 161.27E 0 4.1b **¶97xii3347**
NEIC XII 15 21 38 28.3 53.78N 160.94E 33
EIDC XII 15 21 38 32.2±7.14 53.7N 161.0E 53±67.4 3.8b,4.0L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=34.6km semi−minor=24.7km azimuth=129
ISC XII 15 22 58 45.0±.59 **55.10N**±.047 **163.03E**±.059 **57**±5.8 **4.7b,4.7s** **145 1-145**
KRSC XII 15 22 58 37.6 55.15N 164.10E 62 4.8b **¶97xii3354**
EIDC XII 15 22 58 39.7±.55 55.2N 163.0E 0 4.4b,4.2s
BJI XII 15 22 58 39.9 55.40N 162.76E 20 4.7b,5.3s
HRVD XII 15 22 58 41.6±1.9 55.34N±.23 163.74E±.23 33
NEIC XII 15 22 58 42.2 55.09N 163.10E 33 4.9b,4.5s
MOS XII 15 22 58 43.0 55.4N 162.9E 33 5.0b,4.9s
EIDC Error ellipse is semi−major=17.2km semi−minor=9.8km azimuth=159
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c16; Half duration: 1S0. Moment tensor: Scale 10^{16}Nm; M_{rr}0.88±.36; $M_{\theta\theta}$1.83±.57; $M_{\phi\phi}$−2.71±.39; $M_{r\theta}$4.69±.63; $M_{r\phi}$2.98±.95; $M_{\theta\phi}$−0.55±.43. Principal Axes: T 6.37,Plg44°,Azm345°; N −0.65, Plg23°,Azm231°; P −5.73,Plg37°,Azm122°. Best double couple: $M_0$6.1×10^{16}Nm, NP1: ϕ_S151°,δ23°,λ9°. NP2:ϕ_S52°,δ86°,λ113°.
NEIC Mw5.2(HRV).
ISC XII 16 00 51 39.1±.80 **55.39N**±.059 **163.2E**±.11 **51**±7.2 **4.0b**,4.5s **53 1-83**
KRSC XII 16 00 51 35.5 55.35N 163.63E 26 5.0b **¶97xii3365**
MOS XII 16 00 51 36.3 55.4N 163.4E 25 4.7b
NEIC XII 16 00 51 37.7 55.56N 163.06E 33 4.6b
EIDC XII 16 00 51 40.0±.60 55.6N 163.2E 37±4.6 3.7b
BJI XII 16 00 51 48.7 55.60N 163.00E 33 4.2b,4.8s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=17.5km semi−minor=12.1km azimuth=139
ISC XII 16 09 59 49.7±.82 **53.88N**±.057 **161.8E**±.12 **48**±7.4 **4.0b** **41 1-81**
KRSC XII 16 09 59 44.8 53.79N 162.03E 2 4.5b **¶97xii3433**
BJI XII 16 09 59 48.2 54.00N 161.80E 33 4.4b
NEIC XII 16 09 59 48.2 53.99N 161.85E 33 4.4b
MOS XII 16 09 59 48.6 53.9N 161.9E 36 4.7b
EIDC XII 16 09 59 49.4±.69 54.0N 161.8E 29±4.2 3.9b,4.9L
EIDC Error ellipse is semi−major=21.9km semi−minor=12.9km azimuth=144
ISC XII 16 15 40 04±9.7 **54.75N**±.086 **163.3E**±.47 **14**±59 4.5b **15 1-25**
KRSC XII 16 15 40 03.7 54.75N 163.23E 15 4.4b **¶97xii3473**
ISC XII 17 10 27 18±2.2 **53.8N**±.12 **161.3E**±.39 **20** **10 1-3**
KRSC XII 17 10 27 18.3 53.85N 161.21E 20 3.8b **¶97xii3590**
ISC XII 18 09 42 25±2.0 **53.89N**±.093 **161.4E**±.30 **3**±14 **13 1-5**
KRSC XII 18 09 42 25.7 53.91N 161.43E 18 3.9b **¶97xii3744**
ISC XII 18 12 20 26.7±.73 **53.95N**±.052 **161.74E**±.094 **43**±6.5 **4.2b** **57 1-87**
KRSC XII 18 12 20 21.6 53.82N 161.90E 0 4.7b **¶97xii3761**
BJI XII 18 12 20 24.2 54.32N 162.21E 54 4.3b
MOS XII 18 12 20 26.0 54.0N 161.8E 32 4.8b
NEIC XII 18 12 20 26.0 54.16N 161.69E 33 4.6b
EIDC XII 18 12 20 27.0±.46 54.0N 161.8E 28±3.2 4.0b,3.9s
EIDC Error ellipse is semi−major=17.6km semi−minor=10.2km azimuth=141
ISC XII 18 18 00 34.5±.71 **53.33N**±.048 **161.70E**±.063 **38**±5.8 **4.5b,4.3s** **119 1-114**
BJI XII 18 18 00 31.9 53.61N 161.60E 25 4.7b,4.7s **¶97xii3799**
KRSC XII 18 18 00 33.1 53.24N 161.97E 41 4.8b
MOS XII 18 18 00 34.0 53.3N 161.9E 33 5.0b
NEIC XII 18 18 00 34.0 53.36N 161.80E 33 4.8b
EIDC XII 18 18 00 36.7±.46 53.3N 161.8E 43±3.6 4.1b,3.8s
EIDC Error ellipse is semi−major=13.6km semi−minor=9.9km azimuth=134
ISC XII 19 02 34 09.0±.93 **53.85N**±.067 **161.8E**±.14 **48**±9.6 **3.8b** **34 1-81**
KRSC XII 19 02 34 05.3 53.70N 162.20E 26 4.2b **¶97xii3879**
NEIC XII 19 02 34 08.7 54.27N 161.82E 33 4.1b
EIDC XII 19 02 34 11.4±1.60 54.1N 162.0E 41±14.5 3.6b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=28.2km semi−minor=15.5km azimuth=140
ISC XII 19 02 36 00±4.6 **53.8N**±.21 **161.6E**±.78 **5** **7 1-2**
KRSC XII 19 02 35 57.8 53.77N 161.87E 5 4.0b **¶97xii3880**
ISC XII 19 02 39 53.5±.98 **53.79N**±.066 **162.0E**±.13 **37**±9.7 **4.0b** **38 1-141**
KRSC XII 19 02 39 50.6 53.71N 162.13E 13 4.4b **¶97xii3881**
MOS XII 19 02 39 52.9 53.9N 162.1E 27 4.5b
NEIC XII 19 02 39 53.5 54.04N 161.96E 33 4.4b
EIDC XII 19 02 39 57.8±.59 54.0N 162.0E 56±5.2 3.7b
EIDC Error ellipse is semi−major=24.9km semi−minor=13.3km azimuth=152
ISC XII 19 09 37 44.4±.57 **53.82N**±.041 **161.72E**±.054 **45**±5.0 **4.7b,4.6s** **153 1-87**
BJI XII 19 09 37 41.1 54.62N 161.20E 7 4.8b,4.9s **¶97xii3923**
KRSC XII 19 09 37 41.4 53.73N 162.08E 20 4.8b
EIDC XII 19 09 37 42.6±.70 53.9N 161.8E 17±3.6 4.5b,4.1s

Agency	mo	d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °	
MOS	XII	19	09	37	42.8	53.8N	161.8E	32	5.1b,4.7s			
NEIC	XII	19	09	37	43.3	53.89N	161.79E	33	4.9b,4.4s			
KRSC	Felt I=IV Kronoki											
EIDC	Error ellipse is semi−major=16.3km semi−minor=10.8km azimuth=154											
ISC	**XII**	**19**	**09**	**47**	**16.4±.82**	**53.77N±.056**	**161.9E±.11**	**43±8.2**	**4.2b**		**52**	**1-87**
KRSC	XII	19	09	47	12.3	53.67N	162.16E	13	4.5b			¶97xii3925
BJI	XII	19	09	47	13.4	53.90N	161.80E	33				
NEIC	XII	19	09	47	15.4	53.94N	161.80E	33	4.6b			
EIDC	XII	19	09	47	15.4±.67	53.8N	162.0E	20±4.5	4.1b,4.7L			
MOS	XII	19	09	47	15.7	53.8N	161.9E	37	4.8b			
EIDC	Error ellipse is semi−major=20.7km semi−minor=11.3km azimuth=141											
ISC	**XII**	**19**	**19**	**05**	**04±1.3**	**53.5N±.47**	**161.4E±.69**	**33**	**3.2b**		**4**	**28-77**
EIDC	XII	19	19	05	01.1±1.14	53.4N	161.5E	0	3.4b			¶97xii4019
ISC	Poorly determined											
EIDC	Error ellipse is semi−major=70.1km semi−minor=22.7km azimuth=141											
ISC	**XII**	**20**	**13**	**35**	**22.7±.94**	**53.81N±.070**	**162.2E±.14**	**40±8.1**	**4.1b**		**28**	**1-74**
KRSC	XII	20	13	35	20.3	53.81N	162.33E	12	4.3b			¶97xii4125
MOS	XII	20	13	35	20.8	53.8N	162.5E	33	4.6b			
EIDC	XII	20	13	35	20.9±1.17	54.1N	162.1E	0	4.0b,4.6L			
NEIC	XII	20	13	35	24.2	54.26N	162.01E	33	4.5b			
EIDC	Error ellipse is semi−major=32.0km semi−minor=18.8km azimuth=146											
NEIC	Less reliable solution.											
ISC	**XII**	**20**	**18**	**35**	**16.7±.91**	**53.95N±.056**	**162.0E±.11**	**40±9.0**	**4.2b**		**49**	**1-114**
KRSC	XII	20	18	35	13.3	53.86N	162.19E	14	4.6b			¶97xii4148
BJI	XII	20	18	35	16.3	54.20N	161.90E	33	4.1b			
NEIC	XII	20	18	35	16.3	54.21N	161.94E	33	4.6b			
MOS	XII	20	18	35	16.4	53.9N	162.0E	40	4.7b			
EIDC	XII	20	18	35	23.4±4.70	54.1N	162.1E	81±43.9	3.9b,3.7L			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=23.1km semi−minor=12.6km azimuth=149											
ISC	**XII**	**20**	**20**	**55**	**56±1.6**	**51.3N±.11**	**160.6E±.24**	**41**			**13**	**2-61**
KRSC	XII	20	20	55	57.8	51.40N	160.48E	41	4.0b			¶97xii4167
ISC	**XII**	**21**	**07**	**40**	**58±3.8**	**53.8N±.13**	**162.0E±.40**	**6±18**			**10**	**1-3**
KRSC	XII	21	07	40	56.0	53.82N	162.15E	5	3.7b			¶97xii4230
ISC	**XII**	**21**	**11**	**30**	**00.2±.77**	**55.59N±.053**	**163.0E±.11**	**44±7.3**	**4.1b,**4.4s		**50**	**1-83**
KRSC	XII	21	11	29	55.7	55.51N	163.51E	11	4.4b			¶97xii4247
EIDC	XII	21	11	29	56.4±.66	55.6N	163.3E	0	4.1b,4.5L			
BJI	XII	21	11	29	57.7	55.70N	163.10E	33	4.3s			
MOS	XII	21	11	29	59.2	55.6N	163.1E	33	4.7b			
NEIC	XII	21	11	29	59.7	55.74N	163.09E	33	4.3b			
EIDC	Error ellipse is semi−major=21.4km semi−minor=13.2km azimuth=145											
NEIC	Less reliable solution.											
ISC	**XII**	**21**	**12**	**47**	**56±1.1**	**53.90N±.077**	**161.9E±.20**	**51±10**	**3.6b**		**22**	**1-81**
KRSC	XII	21	12	47	52.4	53.82N	162.18E	12	3.9b			¶97xii4253
NEIC	XII	21	12	47	54.6	54.08N	161.66E	33	3.6b			
EIDC	XII	21	12	47	58.4±1.48	54.0N	161.8E	48±9.0	3.4b,3.0s			
NEIC	Poor solution.											
EIDC	Error ellipse is semi−major=32.1km semi−minor=24.2km azimuth=1											
ISC	**XII**	**22**	**00**	**01**	**10±1.1**	**52.59N±.086**	**160.6E±.14**	**48±9.5**	**3.8b**		**28**	**1-79**
MOS	XII	22	00	01	07.9	52.5N	160.8E	33	4.7b			¶97xii4324
KRSC	XII	22	00	01	07.9	52.57N	160.60E	7	4.2b			
NEIC	XII	22	00	01	08.5	52.70N	160.47E	33	4.0b			
EIDC	XII	22	00	01	13.9±1.27	52.7N	160.5E	63±8.3	3.5b			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=27.1km semi−minor=22.0km azimuth=9											
ISC	**XII**	**22**	**10**	**44**	**43.9±.78**	**55.58N±.062**	**163.2E±.11**	**37±8.1**	**3.9b**		**31**	**1-83**
EIDC	XII	22	10	44	41.3±.80	55.7N	162.9E	0	3.8b			¶97xii4406
KRSC	XII	22	10	44	41.3	55.56N	163.31E	10	4.2b			
MOS	XII	22	10	44	43.0	55.8N	163.0E	33	4.6b			
NEIC	XII	22	10	44	44.0	55.78N	162.95E	33	3.8b			
EIDC	Error ellipse is semi−major=27.3km semi−minor=17.4km azimuth=145											
NEIC	Less reliable solution.											
ISC	**XII**	**22**	**15**	**47**	**23±2.5**	**53.6N±.13**	**161.3E±.33**	**25±22**			**12**	**1-4**
KRSC	XII	22	15	47	23.1	53.61N	161.28E	26	4.1b			¶97xii4442
ISC	**XII**	**22**	**17**	**43**	**59±6.5**	**53.6N±.15**	**161.3E±.41**	**6±48**			**12**	**1-3**
KRSC	XII	22	17	43	59.7	53.59N	161.20E	6	3.9b			¶97xii4459
ISC	**XII**	**24**	**12**	**46**	**51.7±.90**	**55.27N±.099**	**163.6E±.13**	**46±15**	**3.7b**		**16**	**1-83**
KRSC	XII	24	12	46	51.4	55.28N	163.52E	27	3.9b			¶97xii4760
EIDC	XII	24	12	46	53.0±1.27	56.2N	163.9E	0	3.8b			
EIDC	Error ellipse is semi−major=49.7km semi−minor=24.5km azimuth=148											
ISC	**XII**	**25**	**23**	**52**	**53.3±.71**	**53.83N±.050**	**161.86E±.086**	**48±6.4**	**4.2b**		**67**	**1-87**
EIDC	XII	25	23	52	48.7±.59	53.9N	161.9E	0	4.1b,4.7L			¶97xii5010
KRSC	XII	25	23	52	50.9	53.76N	161.98E	13	4.6b			
BJI	XII	25	23	52	51.9	53.90N	162.00E	33	4.2b			
NEIC	XII	25	23	52	51.9	53.89N	162.00E	33	4.6b			
MOS	XII	25	23	52	52.0	53.9N	162.0E	34	4.7b			
EIDC	Error ellipse is semi−major=21.8km semi−minor=12.0km azimuth=142											
ISC	**XII**	**25**	**23**	**53**	**44±2.3**	**53.7N±.41**	**161.6E±.29**	**33**	**4.3b**		**14**	**25-61**
NEIC	XII	25	23	53	43.6	53.63N	161.60E	33	4.6b			¶97xii5011
NEIC	Poor solution.											
ISC	**XII**	**26**	**00**	**19**	**10.1±.87**	**53.81N±.059**	**161.8E±.12**	**51±8.3**	**4.0b,**4.3s		**43**	**1-81**
EIDC	XII	26	00	19	05.4±.82	54.0N	161.9E	0	4.0b,4.4L			¶97xii5012
MOS	XII	26	00	19	06.0	53.7N	162.1E	17	4.6b			
KRSC	XII	26	00	19	07.4	53.80N	161.68E	3	4.4b			
BJI	XII	26	00	19	08.5	54.00N	161.80E	33	4.4b			
NEIC	XII	26	00	19	08.5	54.05N	161.80E	33	4.4b			
EIDC	Error ellipse is semi−major=28.0km semi−minor=14.4km azimuth=152											
ISC	**XII**	**26**	**04**	**50**	**44.8±.55**	**53.76N±.039**	**161.85E±.047**	**41±4.6**	**4.9b,4.9s**		**274**	**1-87**
EIDC	XII	26	04	50	41.7±.68	54.1N	161.8E	0	4.8b,5.0s			¶97xii5049
BJI	XII	26	04	50	42.4	53.80N	161.90E	33	5.0b,5.2s			
MOS	XII	26	04	50	43.5	53.9N	161.8E	28	5.4b,4.9s			
KRSC	XII	26	04	50	44.2	53.77N	161.96E	30	5.2b			
NEIC	XII	26	04	50	44.4	53.86N	161.98E	33	5.1b,4.5s			
EIDC	Error ellipse is semi−major=21.0km semi−minor=10.7km azimuth=156											
KRSC	Felt I=III Kronoki											
ISC	**XII**	**26**	**05**	**02**	**29.0±.18**	**53.65N±.037**	**162.07E±.041**	**13**	**5.0b,5.0s**		**263**	**1-119**
BJI	XII	26	05	02	27.1	53.50N	162.40E	33	4.8b,5.3s			¶97xii5051
KRSC	XII	26	05	02	28.8	53.72N	162.09E	13	5.2b			
MOS	XII	26	05	02	32.0	53.9N	161.8E	38	5.1b,5.2s			
NEIC	XII	26	05	02	32.1	53.56N	162.36E	33	5.0b,4.6s			
EIDC	XII	26	05	02	34.3±3.06	53.9N	161.9E	42±29.1	4.5b,4.8s			
HRVD	XII	26	05	02	35.8±1.4	53.42N±.21	162.20E±.29	15				
KRSC	Felt I=III Kronoki											
NEIC	Mw5.3(HRV)											
NEIC	Felt I=II MSK at Petropavlovsk−Kamchatskiy.											
EIDC	Error ellipse is semi−major=15.9km semi−minor=10.0km azimuth=144											
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c13; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.61±.63; $M_{\theta\theta}$0.30±.65; $M_{\phi\phi}$−3.91±.77; $M_{r\theta}$3.02±2.08; $M_{r\phi}$7.04±3.00; $M_{\theta\phi}$−1.90±.86. Principal Axes: T 8.18,Plg59°,Azm295°; N 1.02,Plg1°,Azm203°; P −9.21,Plg31°,Azm112°. Best double couple: $M_0$8.7×10^{16}Nm, NP1: ϕ_S198°,δ14°,λ85°. NP2:ϕ_S23°,δ76°,λ91°.											
ISC	**XII**	**26**	**05**	**07**	**48±3.3**	**53.7N±.12**	**162.3E±.24**	**20±24**	**3.7b**		**13**	**1-69**
EIDC	XII	26	05	07	46.8±1.21	53.6N	162.4E	0	3.8b,4.0L			¶97xii5052
NEIC	XII	26	05	07	49.9	53.77N	162.31E	33				
KRSC	XII	26	05	07	53.0	53.86N	161.59E	40	3.9b			
EIDC	Error ellipse is semi−major=48.9km semi−minor=21.7km azimuth=152											
NEIC	Single network solution.											
ISC	**XII**	**26**	**05**	**19**	**44±3.8**	**53.8N±.14**	**161.7E±.54**	**0±17**			**10**	**1-3**
KRSC	XII	26	05	19	43.5	53.85N	161.58E	0	3.9b			¶97xii5055
ISC	**XII**	**26**	**05**	**21**	**55±3.1**	**53.8N±.13**	**161.7E±.49**	**0**	4.0b		**12**	**1-63**
KRSC	XII	26	05	21	54.3	53.83N	161.64E	0	3.9b			¶97xii5057
ISC	**XII**	**26**	**05**	**49**	**19.7±.74**	**53.79N±.052**	**161.76E±.098**	**45±6.6**	**4.4b,**4.9s		**66**	**1-87**
KRSC	XII	26	05	49	14.7	53.64N	162.14E	7	4.6b			¶97xii5061
EIDC	XII	26	05	49	15.4±.61	54.0N	161.7E	0	4.3b,4.3s			
MOS	XII	26	05	49	18.4	53.8N	162.0E	33	5.0b			
NEIC	XII	26	05	49	18.7	53.95N	161.72E	33	4.8b			
EIDC	Error ellipse is semi−major=21.1km semi−minor=11.8km azimuth=148											
MOS	Felt I=II MSK at Petropavlovsk−Kamchatskiy.											
ISC	**XII**	**26**	**06**	**24**	**06±1.1**	**54.43N±.036**	**163.02E±.045**	**27±7.6**	**5.0b,4.7s**		**282**	**1-144**
BJI	XII	26	06	24	04.2	54.50N	163.10E	33	4.8b,5.5s			¶97xii5068
KRSC	XII	26	06	24	04.5	54.40N	163.39E	29	5.1b			
MOS	XII	26	06	24	07.0	54.5N	162.9E	35	5.5b,5.0s			
NEIC	XII	26	06	24	07.2	54.45N	163.14E	33	5.2b,4.5s			
EIDC	XII	26	06	24	08.0±.58	54.5N	163.1E	26±3.5	4.6b,4.4s			
MOS	Felt I=II MSK at Petropavlovsk−Kamchatskiy.											
EIDC	Error ellipse is semi−major=13.6km semi−minor=9.6km azimuth=132											
ISC	**XII**	**26**	**07**	**04**	**34.8±.66**	**53.82N±.045**	**161.75E±.077**	**43±5.6**	**4.6b,**4.3s		**96**	**1-87**
BJI	XII	26	07	04	31.5	54.31N	161.73E	28	4.5b,4.7s			¶97xii5073
MOS	XII	26	07	04	33.9	53.9N	161.8E	33	5.0b			
NEIC	XII	26	07	04	33.9	53.90N	161.84E	33	4.7b			
KRSC	XII	26	07	04	35.3	53.85N	161.54E	18	4.4b			
EIDC	XII	26	07	04	37.3±.84	53.9N	161.8E	49±6.9	4.2b,4.1s			
EIDC	Error ellipse is semi−major=18.5km semi−minor=11.4km azimuth=137											
ISC	**XII**	**26**	**07**	**20**	**56.0±.94**	**53.86N±.071**	**161.7E±.15**	**50±8.4**	**3.9b**		**30**	**1-74**
KRSC	XII	26	07	20	52.2	53.80N	161.66E	0	4.3b			¶97xii5077
MOS	XII	26	07	20	53.9	53.9N	161.9E	27	4.5b			
EIDC	XII	26	07	20	54.4±1.03	54.2N	161.6E	12±4.8	3.9b,3.9L			
NEIC	XII	26	07	20	55.5	54.26N	161.52E	33	4.1b			
EIDC	Error ellipse is semi−major=27.3km semi−minor=12.7km azimuth=151											
ISC	**XII**	**26**	**08**	**06**	**32±2.7**	**53.7N±.11**	**161.9E±.22**	**17±20**	**3.4b**		**16**	**1-59**
EIDC	XII	26	08	06	28.3±2.67	52.6N	162.5E	0	3.6b			¶97xii5082
KRSC	XII	26	08	06	29.5	53.70N	162.07E	10	4.0b			
EIDC	Error ellipse is semi−major=184.5km semi−minor=28.4km azimuth=155											
ISC	**XII**	**26**	**08**	**18**	**32±2.1**	**53.8N±.10**	**162.1E±.15**	**21±16**	**3.6b**		**20**	**1-69**
EIDC	XII	26	08	18	30.7±.99	54.1N	161.9E	0	3.7b,3.5L			¶97xii5083
KRSC	XII	26	08	18	30.9	53.79N	161.79E	0	3.9b			
NEIC	XII	26	08	18	33.8	54.31N	161.73E	33	3.6b			
EIDC	Error ellipse is semi−major=47.5km semi−minor=17.2km azimuth=150											
NEIC	Less reliable solution.											
ISC	**XII**	**26**	**10**	**14**	**48±3.8**	**51.5N±.23**	**159.8E±.48**	**62**			**8**	**1-3**
KRSC	XII	26	10	14	45.3	51.44N	160.03E	62	3.8b			¶97xii5101
ISC	**XII**	**26**	**23**	**25**	**44±1.3**	**53.54N±.094**	**162.1E±.17**	**38±11**	**3.7b**		**17**	**1-61**
EIDC	XII	26	23	25	42.2±2.67	53.7N	162.0E	0	3.8b			¶97xii5206
KRSC	XII	26	23	25	44.9	53.60N	161.98E	26	3.8b			
NEIC	XII	26	23	25	48.1	54.21N	161.94E	33				
EIDC	Error ellipse is semi−major=79.7km semi−minor=32.5km azimuth=146											
NEIC	Poor solution.											
ISC	**XII**	**27**	**17**	**26**	**52±1.5**	**54.48N±.083**	**163.5E±.21**	**43±15**	**3.7b**		**22**	**1-68**
KRSC	XII	27	17	26	50.6	54.44N	163.73E	43	3.9b			¶97xii5324
MOS	XII	27	17	26	51.2	54.4N	163.6E	33	4.6b			
NEIC	XII	27	17	26	52.4	54.86N	163.43E	33	4.2b			
EIDC	XII	27	17	26	54.6±1.05	54.7N	163.6E	39±5.6	3.5b,3.8s			
NEIC	Poor solution.											
EIDC	Error ellipse is semi−major=33.8km semi−minor=16.1km azimuth=162											
ISC	**XII**	**27**	**17**	**28**	**59.8±.79**	**54.39N±.091**	**163.7E±.12**	**40**	**3.7b**		**18**	**1-68**
EIDC	XII	27	17	29	00.6±1.20	53.4N	164.9E	38±7.4	3.5b			¶97xii5325
KRSC	XII	27	17	29	01.3	54.41N	163.67E	40	3.9b			
EIDC	Error ellipse is semi−major=45.3km semi−minor=19.0km azimuth=166											
ISC	**XII**	**27**	**21**	**11**	**05±1.3**	**52.21N±.096**	**159.9E±.16**	**51±9.7**	**3.9b**		**23**	**1-79**
KRSC	XII	27	21	11	02.3	52.05N	160.08E	27	4.2b			¶97xii5349
EIDC	XII	27	21	11	05.9±1.41	52.3N	160.0E	39±11.3	3.7b			
EIDC	Error ellipse is semi−major=47.1km semi−minor=21.1km azimuth=110											
ISC	**XII**	**27**	**21**	**11**	**26±2.9**	**54.5N±.10**	**163.8E±.10**	**28±20**	**4.0b,**4.5s		**39**	**1-82**
KRSC	XII	27	21	11	26.3	54.39N	163.69E	40	4.4b			¶97xii5350
NEIC	XII	27	21	11	27.4	54.47N	163.86E	33	4.4b			
EIDC	XII	27	21	11	29.7±.70	54.3N	164.0E	40±7.4	3.7b			
MOS	XII	27	21	11	32.1	55.2N	163.4E	49	4.5b			
BJI	XII	27	21	11	33.4	54.40N	163.80E	33	4.5b			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=32.9km semi−minor=13.7km azimuth=139											
KRSC	**XII**	**27**	**21**	**11**	**55.1**	**53.03N**	**162.06E**	**39**	**3.9b**			¶97xii5351
ISC	**XII**	**28**	**09**	**36**	**14.7±.65**	**54.49N±.080**	**163.7E±.10**	**34**	**3.8b**		**21**	**1-68**
EIDC	XII	28	09	36	13.0±1.15	54.6N	163.8E	0	3.8b			¶97xii5432
KRSC	XII	28	09	36	13.3	54.45N	163.77E	34	4.1b			
EIDC	Error ellipse is semi−major=49.7km semi−minor=18.6km azimuth=150											
ISC	**XII**	**28**	**23**	**02**	**20±3.2**	**51.4N±.19**	**159.3E±.38**	**0**			**7**	**1-2**
KRSC	XII	28	23	02	19.2	51.45N	159.40E	0	3.9b			¶97xii5509
ISC	**XII**	**29**	**01**	**08**	**49±1.2**	**53.8N±.10**	**161.5E±.24**	**51±9.5**	**3.7b**		**19**	**1-81**
KRSC	XII	29	01	08	46.3	53.69N	161.90E	31	4.0b			¶97xii5523
MOS	XII	29	01	08	46.6	53.7N	161.9E	33	4.5b			
NEIC	XII	29	01	08	46.8	53.95N	161.45E	33	4.3b			
EIDC	XII	29	01	08	49.6±.86	53.8N	161.6E	40±6.4	3.5b			
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=28.1km semi−minor=17.6km azimuth=111											
EIDC	**XII**	**29**	**10**	**57**	**14.0**	**54.4N**	**163.2E**	**0**	**3.7b**			**27-68**
												¶97xii5575
EIDC	Origin time error = 16.81Error ellipse is semi−major=401.4km semi−minor=91.0km azimuth=90											
ISC	**XII**	**31**	**21**	**51**	**38.9±.83**	**53.68N±.077**	**161.1E±.17**	**50±7.0**	**3.7b**		**27**	**1-133**
KRSC	XII	31	21	51	39.2	53.66N	161.02E	32	4.1b			¶97xii5978
EIDC	XII	31	21	52	07.4	54.1N	159.5E	254±101.2	3.1b			
EIDC	Origin time error = 10.36Error ellipse is semi−major=30.4km semi−minor=22.1km azimuth=147											

(220) North-west of Kuril Islands.

ISC	**VII**	**22**	**19**	**49**	**15±3.6**	**48.0N±.19**	**148.9E±.30**	**384±45**	**3.4b**		**10**	**14-79**
NEIC	VII	22	19	49	12.3	48.07N	148.78E	350	3.7b			¶97vii3426
EIDC	VII	22	19	49	18.4	48.1N	148.6E	412	3.0b			
NEIC	Poor solution.											

ISC	**VII**	**31 13 54 55**±5.4	**46.1N**±.32	**147.5E**±.58	**295**			**27**	**3-9**	
JMA	VII	31 13 54 54.8±.5	46.03N±.04	147.60E±.08	295					¶97vii4739
ISC	**VIII**	**15 10 00 48.8**±.58	**48.50N**±.061	**149.9E**±.12	**370**±6.7	**3.5b**		**62**	**4-135**	
NEIC	VIII	15 10 00 47.3	48.63N	149.86E	350					¶97viii2197
SKHL	VIII	15 10 00 48.0	48.4N±.08	149.9E±.18	402±8					
EIDC	VIII	15 10 00 48.4	48.6N	149.8E	343	3.3b				
MOS	VIII	15 10 00 50.0	48.7N	149.8E	384	4.6b				
BJI	VIII	15 10 00 50.0	48.06N	149.18E	350	4.2b				
NEIC	Single network solution.									
ISC	**VIII**	**25 16 09 01.4**±.39	**47.51N**±.045	**146.98E**±.097	**418**±5.0	**3.7b**		**74**	**2-152**	
NEIC	VIII	25 16 09 00.2	47.64N	146.93E	400	4.2b				¶97viii3711
SKHL	VIII	25 16 09 02.0	47.5N±.11	146.9E±.17	405±7					
EIDC	VIII	25 16 09 02.7	47.7N	146.9E	415	3.3b				
JMA	VIII	25 16 09 03.2±.3	47.11N±.03	147.32E±.06	416					
ISC	**IX**	**17 17 26 52.8**±.52	**48.99N**±.060	**150.7E**±.10	**356**±6.3	**3.7b**		**51**	**4-78**	
BJI	IX	17 17 26 52.6	49.10N	150.60E	350	4.2b				¶97ix2538
NEIC	IX	17 17 26 52.6	49.13N	150.59E	350	4.1b				
SKHL	IX	17 17 26 53.0	49.0N±.13	150.9E±.11	365±2					
MOS	IX	17 17 26 53.5	49.1N	150.7E	362	4.3b				
EIDC	IX	17 17 26 55.9	49.1N	150.5E	369	3.4b				
ISC	**IX**	**19 02 03 09.1**±.26	**47.89N**±.035	**146.95E**±.051	**449**±3.9	**4.3b**		**195**	**3-152**	
BJI	IX	19 02 03 08.5	47.95N	146.75E	427	4.8b				¶97ix2738
SKHL	IX	19 02 03 09.0	47.8N±.16	147.3E±.25	468±3					
NEIC	IX	19 02 03 09.1	48.01N	146.91E	448	4.4b				
MOS	IX	19 02 03 09.4	47.9N	147.0E	459	4.3b				
EIDC	IX	19 02 03 10.8	48.0N	146.9E	457	3.9b				
JMA	IX	19 02 03 11.0±.3	47.36N±.03	147.47E±.05	448					
ISC	**IX**	**22 13 11 08**±1.1	**49.3N**±.27	**150.6E**±.41	**350**	**3.2b**		**5**	**16-78**	
EIDC	IX	22 13 11 09.0	49.4N	150.6E	341	2.8b				¶97ix3283
ISC	**X**	**05 20 17 30**±1.7	**47.4N**±.22	**149.4E**±.42	**250**	**3.4b**		**4**	**14-67**	
EIDC	X	05 20 17 32.4	47.4N	149.4E	263	3.0b				¶97x0926
ISC	Poorly determined									
ISC	**X**	**06 17 44 04**±2.1	**48.1N**±.15	**148.3E**±.46	**401**±21	**3.2b**		**8**	**4-73**	
SKHL	X	06 17 44 04.0	48.0N±.02	148.4E±.03	391±1					¶97x1090
EIDC	X	06 17 44 05.0	48.1N	148.4E	392	2.9b				
EIDC	**X**	**10 14 31 29.4**	**51.8N**	**152.0E**	**0**	**4.0b**,3.8L				¶97x1760
ISC	**X**	**27 19 17 03**±1.7	**46.2N**±.32	**147.6E**±.47	**390**±28	**3.6b**		**22**	**3-68**	
EIDC	X	27 19 16 17.9	46.2N	149.8E	0	4.0b				¶97x4647
ISC	**XI**	**02 09 26 53**±2.4	**48.9N**±.24	**150.5E**±.62	**33**	3.8b		**4**	**15-74**	
EIDC	XI	02 09 26 49.9	48.9N	150.9E	0	3.7b,3.5L				¶97xi0231
ISC	Poorly determined									
ISC	**XII**	**06 16 39 25**±1.0	**52.6N**±.23	**153.1E**±.36	**500**	**3.2b**		**6**	**19-74**	
EIDC	XII	06 16 39 28.8±5.71	52.6N	152.9E	545±84.0	2.7b				¶97xii1467
EIDC	Error ellipse is semi−major=48.0km semi−minor=17.7km azimuth=139									
ISC	**XII**	**08 22 06 38**±1.6	**46.9N**±.23	**146.6E**±.44	**423**±23	3.9b		**20**	**4-67**	
JMA	XII	08 22 06 42.5±.3	46.58N±.04	146.27E±.07	404					¶97xii2022
ISC	**XII**	**12 23 29 22.3**±.47	**50.97N**±.058	**152.73E**±.088	**337**±5.7	**3.9b**		**76**	**2-149**	
SKHL	XII	12 23 29 22.0	50.9N±.16	153.0E±.19	346±2					¶97xii2842
MOS	XII	12 23 29 22.5	51.0N	152.9E	344	4.6b				
NEIC	XII	12 23 29 23.2	51.03N	152.71E	346	4.4b				
EIDC	XII	12 23 29 24.8±2.29	51.0N	152.7E	348±23.5	3.4b				
BJI	XII	12 23 29 27.4	51.05N	151.72E	346	4.5b				
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=16.7km semi−minor=12.3km azimuth=130									
ISC	**XII**	**13 19 40 21.3**±.64	**51.7N**±.13	**155.7E**±.16	**210**±7.0	**3.7b**		**24**	**1-147**	
NEIC	XII	13 19 40 21.0	51.90N	155.66E	200	3.8b				¶97xii3004
KRSC	XII	13 19 40 21.3	51.40N	156.09E	216	3.7b				
EIDC	XII	13 19 40 25.0±4.82	51.7N	155.6E	229±47.2	3.5b				
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=23.7km semi−minor=18.9km azimuth=148									
ISC	**XII**	**14 21 30 45.3**±.89	**52.0N**±.15	**153.0E**±.18	**424**±8.1	**3.5b**		**16**	**2-77**	
KRSC	XII	14 21 30 42.1	51.64N	153.70E	489	4.0b				¶97xii3198
NEIC	XII	14 21 30 47.6	52.13N	152.93E	450	3.5b				
EIDC	XII	14 21 30 47.7±4.29	52.0N	153.0E	438±48.7	3.2b				
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=32.4km semi−minor=20.0km azimuth=152									

(221) Kuril Islands.

ISC	**VII**	**01 03 24 32**±7.9	**44.1N**±.49	**146.6E**±.86	**112**			**7**	**1-3**	
JMA	VII	01 03 24 32.6±.3	44.10N±.02	146.52E±.04	112±3					¶97vii0022
JMA	**VII**	**01 09 00 14.8**±.5	**43.54N**±.04	**147.53E**±.04	**15**	**3.1**		**97**	**vii0052**	
JMA	**VII**	**01 14 44 02.5**±.2	**43.20N**±.02	**146.79E**±.02	**74**±3			**97**	**vii0104**	
JMA	**VII**	**01 21 01 53.7**±.3	**44.00N**±.03	**148.01E**±.03	**12**	**3.4**		**97**	**vii0140**	
JMA	**VII**	**02 12 27 28.1**±.4	**43.56N**±.03	**146.93E**±.04	**43**±5	**3.3**		**97**	**vii0239**	
JMA	**VII**	**02 13 24 06.6**±.4	**43.34N**±.03	**146.98E**±.04	**40**	**2.8**		**97**	**vii0247**	
ISC	**VII**	**03 09 08 22**±3.0	**43.17N**±.054	**147.3E**±.28	**33**±29	**3.6b**,3.1s		**50**	**1-83**	
JMA	VII	03 09 08 24.1±.5	43.37N±.03	146.94E±.05	29	3.9				¶97vii0381
EIDC	VII	03 09 08 31.2	45.2N	146.4E	0	3.7b,3.1s				
JMA	**VII**	**03 17 19 36.4**±.4	**43.38N**±.02	**146.77E**±.04	**45**±4	**2.9**		**97**	**vii0431**	
ISC	**VII**	**03 18 07 20.6**±.49	**50.90N**±.050	**156.30E**±.068	**125**±4.6	**4.5b**		**100**	**0-146**	
BJI	VII	03 18 07 13.5	50.68N	156.47E	71	4.7b,4.1s				¶97vii0435
NEIC	VII	03 18 07 13.7	50.98N	156.26E	63	4.8b				
EIDC	VII	03 18 07 16.7	50.8N	156.5E	77	4.3b,3.1s				
MOS	VII	03 18 07 17.5	50.8N	156.4E	96	4.6b				
KRSC	VII	03 18 07 19.9	50.66N	156.67E	114	4.9b				
ISC	**VII**	**03 19 27 34**±6.2	**43.1N**±.11	**147.2E**±.65	**59**			**25**	**1-8**	
JMA	VII	03 19 27 42.3±.3	43.13N±.02	146.38E±.03	59±3	3.4				¶97vii0442
JMA	**VII**	**03 20 02 06.0**±.3	**43.56N**±.02	**147.25E**±.03	**42**	**2.9**		**97**	**vii0446**	
ISC	**VII**	**04 03 33 43.0**±.74	**48.2N**±.13	**153.1E**±.25	**33**	**3.8b**		**16**	**35-77**	
EIDC	VII	04 03 34 02.9	48.2N	153.2E	199	3.3b				¶97vii0489
JMA	**VII**	**04 13 36 49.9**±.4	**44.08N**±.05	**148.17E**±.04	**12**	**3.7**		**97**	**vii0567**	
JMA	**VII**	**04 18 00 08.4**±.5	**43.37N**±.03	**146.77E**±.04	**39**	**2.8**		**97**	**vii0599**	
JMA	**VII**	**04 18 37 44.5**±.3	**43.22N**±.02	**146.80E**±.03	**62**±3			**97**	**vii0604**	
ISC	**VII**	**05 00 19 36.8**±.92	**46.77N**±.067	**152.88E**±.080	**52**±9.1	**4.3b,4.2s**		**91**	**4-149**	
NEIC	VII	05 00 19 37.8	46.79N	152.84E	64	4.5b				¶97vii0647
MOS	VII	05 00 19 38.1	47.0N	153.0E	54	4.8b				
BJI	VII	05 00 19 38.6	47.07N	153.20E	90	4.7b				
EIDC	VII	05 00 19 39.8	46.9N	152.9E	66	3.9b,4.0s				
JMA	**VII**	**05 01 23 17.7**±.4	**44.02N**±.05	**148.11E**±.04	**4**	**3.7**		**97**	**vii0658**	
JMA	**VII**	**05 11 10 31.8**±.1	**43.16N**±.01	**146.41E**±.02	**49**±1	**2.8**		**97**	**vii0719**	
JMA	**VII**	**05 13 40 11.6**±.5	**43.61N**±.04	**147.47E**±.04	**31**	**3.0**		**97**	**vii0736**	
JMA	**VII**	**05 21 31 38.3**±.5	**43.88N**±.07	**147.89E**±.06	**4**	**2.8**		**97**	**vii0795**	
JMA	**VII**	**06 01 47 40.3**±.5	**43.33N**±.03	**146.77E**±.04	**44**	**3.0**		**97**	**vii0820**	
ISC	**VII**	**06 04 26 09.0**±.62	**44.49N**±.058	**147.41E**±.097	**174**±7.0	**4.0b**		**77**	**2-82**	
BJI	VII	06 04 26 06.4	44.84N	147.47E	143	4.9b				¶97vii0837
NEIC	VII	06 04 26 08.3	45.04N	147.02E	150	4.1b				
EIDC	VII	06 04 26 09.4	45.1N	146.9E	142	3.6b				
JMA	VII	06 04 26 11.5±.3	44.32N±.02	147.19E±.04	177±3					
NEIC	Less reliable solution.									
JMA	**VII**	**06 05 31 06.7**±.3	**43.31N**±.02	**146.71E**±.03	**51**±3	**2.8**				¶97vii0841
JMA	**VII**	**06 07 59 22.2**±.5	**44.03N**±.05	**147.95E**±.05	**11**	**3.6**				¶97vii0855
JMA	**VII**	**06 12 17 38.6**±.4	**43.56N**±.03	**147.46E**±.04	**28**	**3.8**				¶97vii0882
JMA	**VII**	**06 19 38 43.1**±.2	**43.14N**±.02	**146.78E**±.02	**60**±3	**2.4**				¶97vii0926
JMA	**VII**	**06 19 49 41.2**±.3	**43.90N**±.03	**147.77E**±.04	**98**					¶97vii0927
ISC	**VII**	**06 23 02 29**±2.9	**44.8N**±.20	**146.3E**±.32	**213**			**25**	**1-7**	
JMA	VII	06 23 02 30.0±.4	44.66N±.05	146.25E±.06	213					¶97vii0948
JMA	**VII**	**07 01 32 01.6**±.5	**44.14N**±.06	**147.98E**±.06	**0**	**3.1**				¶97vii0965
ISC	**VII**	**07 01 54 14**±2.4	**43.26N**±.061	**147.1E**±.26	**79**±22	**3.4b**		**42**	**1-83**	
EIDC	VII	07 01 54 08.1	43.9N	147.2E	0	3.6b,3.4L				¶97vii0972
JMA	VII	07 01 54 14.0±.4	43.31N±.02	147.06E±.04	60	3.9				
JMA	**VII**	**07 08 56 23.5**±.5	**43.41N**±.04	**146.95E**±.05	**52**	**2.8**				¶97vii1018
ISC	**VII**	**07 11 49 23.6**±.68	**44.95N**±.064	**146.5E**±.13	**230**±7.0	**3.6b**		**66**	**1-82**	
NEIC	VII	07 11 49 22.4	45.45N	146.15E	200	3.8b				¶97vii1037
EIDC	VII	07 11 49 23.5	45.5N	146.2E	193	3.3b				
JMA	VII	07 11 49 24.8±.4	44.77N±.03	146.60E±.05	221					
NEIC	Less reliable solution.									
JMA	**VII**	**07 19 26 34.8**±.4	**43.95N**±.03	**147.36E**±.04	**53**	**2.9**				¶97vii1080
ISC	**VII**	**07 19 32 42**±1.2	**48.24N**±.060	**154.42E**±.081	**53**±11	**4.3b**,4.1s		**67**	**3-147**	
NEIC	VII	07 19 32 40.2	48.29N	154.27E	40	4.7b				¶97vii1082
BJI	VII	07 19 32 40.3	48.28N	154.54E	53	4.6b				
MOS	VII	07 19 32 41.1	48.1N	154.5E	49	4.9b				
EIDC	VII	07 19 32 42.1	48.3N	154.3E	42	4.1b,3.4s				
JMA	**VII**	**08 00 20 21.4**±.4	**43.78N**±.06	**147.71E**±.04	**33**	**2.9**				¶97vii1107
JMA	**VII**	**08 02 23 33.2**±.5	**44.38N**±.05	**147.60E**±.06	**140**					¶97vii1125
JMA	**VII**	**08 05 37 28.6**±.4	**43.27N**±.02	**147.02E**±.03	**62**±4					¶97vii1142
JMA	**VII**	**08 13 50 14.8**±.5	**44.19N**±.04	**147.28E**±.05	**81**					¶97vii1198
JMA	**VII**	**08 19 31 45.8**±.3	**43.63N**±.03	**147.10E**±.03	**57**	**3.2**				¶97vii1227
JMA	**VII**	**09 18 54 52.7**±.8	**44.34N**±.12	**149.02E**±.09	**56**	**3.4**				¶97vii1380
JMA	**VII**	**09 19 29 08.4**±.2	**43.19N**±.01	**146.85E**±.02	**61**±3					¶97vii1385
JMA	**VII**	**10 06 30 57.8**±.5	**43.96N**±.06	**147.92E**±.05	**8**	**3.2**				¶97vii1461
ISC	**VII**	**10 08 10 53**±2.8	**43.3N**±.11	**147.6E**±.29	**70**±26	**3.5b**		**38**	**1-83**	
JMA	VII	10 08 10 52.8±.5	43.49N±.04	147.46E±.04	38	3.8				¶97vii1476
EIDC	VII	10 08 11 40.2	44.9N	147.9E	444	2.8b				
JMA	**VII**	**10 15 27 52.0**±.4	**43.68N**±.03	**147.78E**±.03	**25**	**3.2**				¶97vii1528
ISC	**VII**	**10 19 04 33**±8.1	**43.5N**±.16	**147.1E**±.82	**54**			**22**	**1-7**	
JMA	VII	10 19 04 31.9±.4	43.46N±.03	147.10E±.04	54	3.2				¶97vii1548
ISC	**VII**	**11 00 35 26**±1.8	**48.2N**±.13	**154.9E**±.18	**63**±16	**3.8b**		**22**	**5-91**	
EIDC	VII	11 00 35 20.3	48.4N	154.7E	0	3.8b,4.2L				¶97vii1597
NEIC	VII	11 00 35 23.3	48.29N	154.80E	33	4.3b				
MOS	VII	11 00 35 23.6	48.1N	155.2E	33	4.6b				
NEIC	Less reliable solution.									
ISC	**VII**	**11 09 42 48**±7.7	**44.1N**±.44	**146.9E**±.84	**127**			**7**	**1-3**	
JMA	VII	11 09 42 48.2±.2	44.07N±.02	146.88E±.03	127±2					¶97vii1656
JMA	**VII**	**11 14 57 35.2**±.3	**43.27N**±.02	**146.59E**±.03	**67**±2					¶97vii1697
ISC	**VII**	**11 15 32 49.4**±.33	**44.65N**±.033	**146.75E**±.041	**168**±3.7	**4.7b**		**290**	**1-153**	
MOS	VII	11 15 32 47.3	44.6N	146.9E	155	5.0b				¶97vii1701
BJI	VII	11 15 32 48.1	44.80N	146.82E	164	4.5b				
NEIC	VII	11 15 32 48.3	44.81N	146.66E	155	4.8b				
EIDC	VII	11 15 32 49.4	44.9N	146.5E	154	4.4b				
JMA	VII	11 15 32 50.5±.4	44.47N±.03	146.80E±.04	173±3					
JMA	**VII**	**11 19 43 37.7**±.4	**44.45N**±.04	**147.66E**±.05	**146**					¶97vii1721
JMA	**VII**	**12 00 20 57.9**±.4	**43.73N**±.03	**147.02E**±.04	**78**					¶97vii1748
JMA	**VII**	**12 02 58 27.3**±.3	**43.61N**±.02	**147.22E**±.03	**35**	**3.1**				¶97vii1768
JMA	**VII**	**12 11 45 32.5**±.3	**43.69N**±.02	**147.41E**±.03	**33**	**2.8**				¶97vii1811
ISC	**VII**	**12 19 50 06**±1.7	**44.19N**±.070	**148.6E**±.17	**73**±18	**3.5b**		**60**	**2-82**	
NEIC	VII	12 19 50 03.3	44.80N	148.28E	33	4.2b				¶97vii1862
EIDC	VII	12 19 50 07.9	44.8N	148.2E	54	3.4b,3.4L				
JMA	VII	12 19 50 08.0±.6	44.32N±.04	148.20E±.06	34	4.1				
NEIC	Less reliable solution.									
ISC	**VII**	**13 01 02 18**±3.8	**46.3N**±.10	**152.9E**±.14	**5**±23	**4.0b**		**64**	**5-148**	
EIDC	VII	13 01 02 18.4	46.3N	152.9E	0	3.8b,3.4L				¶97vii1899
NEIC	VII	13 01 02 21.6	46.23N	152.80E	33	4.3b				
JMA	VII	13 01 02 23.7±.9	45.84N±.10	153.28E±.11	42	4.1				
MOS	VII	13 01 02 24.0	46.6N	152.9E	33	4.7b				
NEIC	Less reliable solution.									
JMA	**VII**	**13 17 41 08.1**±.4	**43.67N**±.03	**147.42E**±.03	**17**±5	**3.0**				¶97vii2003
ISC	**VII**	**14 02 35 42**±3.6	**43.0N**±.14	**146.6E**±.37	**91**±32			**31**	**1-7**	
JMA	VII	14 02 35 48.2±.3	43.10N±.02	146.04E±.03	69±3					¶97vii2062
ISC	**VII**	**14 16 09 31**±1.3	**43.16N**±.021	**146.43E**±.027	**7**±7.7	**5.9b,5.9s**		**837**	**1-154**	
EIDC	VII	14 16 09 31.6	43.3N	146.3E	0	5.4b,5.7s				¶97vii2170
BJI	VII	14 16 09 34.3	43.33N	146.46E	33	5.6b,5.9s				
NEIC	VII	14 16 09 35.5	43.25N	146.38E	33	5.9b,5.8s				
JMA	VII	14 16 09 36.8±.4	43.11N±.02	146.29E±.04	37±3	5.9				
MOS	VII	14 16 09 37.3	43.4N	146.4E	42	6.2b,6.2s				
HRVD	VII	14 16 09 40.5±.1	43.19N±.01	146.47E±.01	34					
NEIC	Mw6.1(GS), Me6.1(GS)									
NEIC	Radiated energy from the P−wave first−motion solution: 2.7±0.5×10^{13}Nm/22									
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S255°,δ40°,λ140°. NP2:ϕ_S18°,δ66°,λ57°. Principal axes: T Plg56°,Azm244°; P Plg14°,Azm131°. Depth from synthetics of broadband displacement seismograms.									
NEIC	Moment tensor solution: s50, scale 10^{18}Nm; M_{rr}1.06; $M_{\theta\theta}$−0.10; $M_{\phi\phi}$−0.96; $M_{r\theta}$−0.02; $M_{r\phi}$1.00; $M_{\theta\phi}$−0.40. Depth 35km; Principal axes: T 1.49,Plg66°,Azm254°; N −0.02,Plg12°, Azm12°; P −1.47,Plg21°,Azm106°. Best double couple: $M_0$1.5×10^{18}Nm; NP1:ϕ_S216°,δ26°, λ117°. NP2:ϕ_S7°,δ67°,λ77°.									
JMA	Felt I=II J1									
MOS	Felt I=IV MSK at Uzno−Kurilsk.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c123; Mantle waves: s45,c86; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}1.05±.01; $M_{\theta\theta}$−0.11±.01; $M_{\phi\phi}$−0.94±.01; $M_{r\theta}$0.06±.03; $M_{r\phi}$1.28±.02; $M_{\theta\phi}$−0.77±.01. Principal Axes: T 1.73,Plg60°,Azm250°; N 0.14,Plg19°,Azm17°; P −1.87,Plg22°,Azm115°. Best double couple: $M_0$1.8×10^{18}Nm, NP1:ϕ_S236°,δ28°,λ133°. NP2:ϕ_S9°,δ70°,λ70°.									
ISC	**VII**	**15 13 57 47**±9.1	**43.5N**±.19	**146.1E**±.85	**86**±42			**13**	**0-4**	
JMA	VII	15 13 57 46.4±.4	43.51N±.02	146.20E±.04	89±3					¶97vii2312
JMA	**VII**	**15 19 41 38.4**±.3	**43.58N**±.03	**147.53E**±.03	**23**	**3.3**				¶97vii2342
JMA	**VII**	**16 05 08 42.7**±.3	**43.25N**±.02	**146.66E**±.03	**59**±3	**3.2**				¶97vii2389
JMA	**VII**	**16 14 02 38.4**±.3	**43.23N**±.02	**146.50E**±.03	**50**±3	**2.9**				¶97vii2449
ISC	**VII**	**16 22 45 17**±7.6	**43.2N**±.22	**146.3E**±.77	**51**			**9**	**0-3**	
JMA	VII	16 22 45 15.4±.3	43.17N±.02	146.39E±.03	51±2	2.8				¶97vii2508
JMA	**VII**	**17 04 45 33.0**±.3	**43.29N**±.02	**146.66E**±.03	**56**±3	**2.9**				¶97vii2547
JMA	**VII**	**17 05 39 23.0**±.3	**43.48N**±.03	**147.09E**±.03	**62**±5					¶97vii2549
JMA	**VII**	**17 08 22 45.5**±.2	**43.61N**±.02	**147.81E**±.02	**40**	**3.1**				¶97vii2571
JMA	**VII**	**17 16 45 01.1**±.5	**43.76N**±.03	**147.40E**±.04	**32**	**3.6**				¶97vii2615
JMA	**VII**	**17 20 28 19.9**±.7	**44.56N**±.09	**149.75E**±.09	**0**	**3.4**				¶97vii2641
JMA	**VII**	**17 21 30 03.3**±.4	**43.48N**±.02	**146.66E**±.04	**47**±4	**3.0**				¶97vii2648
JMA	**VII**	**18 01 05 25.1**±.5	**43.68N**±.04	**147.18E**±.04	**41**	**3.0**				¶97vii2672
JMA	**VII**	**18 01 53 49.6**±.3	**43.86N**±.02	**147.58E**±.03	**17**	**3.2**				¶97vii2676
ISC	**VII**	**18 07 44 59**±1.6	**44.16N**±.062	**148.5E**±.15	**59**±14	**3.8b**,3.4s		**63**	**2-148**	
NEIC	VII	18 07 44 59.0	44.41N	148.38E	50	3.9b				¶97vii2709
JMA	VII	18 07 45 01.0±.4	44.09N±.03	148.26E±.04	31	4.2				
EIDC	VII	18 07 45 04.7	44.5N	148.0E	83	3.5b,3.4s				
NEIC	Less reliable solution.									

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
JMA	**VII**	**18 09 42 01.3**±.4	**43.76N**±.03	**147.11E**±.03	**61**				¶97vii2721
JMA	**VII**	**18 16 48 06.8**±.3	**43.63N**±.02	**147.23E**±.02	**52**±4	**3.0**			¶97vii2767
JMA	**VII**	**18 17 41 04.2**±.4	**43.22N**±.03	**147.23E**±.03	**71**				¶97vii2771
JMA	**VII**	**18 20 05 12.1**±.4	**43.42N**±.03	**147.02E**±.04	**63**±5				¶97vii2783
ISC	**VII**	**18 23 51 00.4**±.44	**46.56N**±.032	**150.20E**±.038	**159**±4.6	**5.0b**		**439**	**4-154**
BJI	VII	18 23 50 59.0	46.74N	150.21E	150	5.2b			¶97vii2803
NEIC	VII	18 23 50 59.3	46.58N	150.22E	150	5.1b			
MOS	VII	18 23 51 00.9	46.6N	150.0E	160	5.2b			
HRVD	VII	18 23 51 01.6±3.3	47.23N±.18	151.19E±.30	161±7.6				
EIDC	VII	18 23 51 02.6	46.6N	150.1E	168	4.7b,3.5s			
JMA	VII	18 23 51 09.7±.4	45.68N±.03	149.92E±.05	164±5				
NEIC	Mw5.2(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s10,c12; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}0.20±.75; $M_{\theta\theta}$3.03±1.24; $M_{\phi\phi}$−3.22±1.27; $M_{r\theta}$3.09±.86; $M_{r\phi}$3.04±.72; $M_{\theta\phi}$4.28±.85. Principal Axes: T 7.56,Plg30°,Azm330°; N −1.77, Plg55°,Azm185°; P −5.79,Plg17°,Azm70°. Best double couple: $M_0$6.7×10^{16}Nm, NP1: ϕ_S113°,δ57°,λ10°. NP2:ϕ_S17°,δ81°,λ146°.								
ISC	**VII**	**19 01 11 28**±1.1	**44.42N**±.077	**147.7E**±.15	**118**±13	**3.8b**		**50**	**2-82**
NEIC	VII	19 01 11 27.8	44.95N	147.34E	100	4.9b			¶97vii2810
JMA	VII	19 01 11 28.8±.5	44.32N±.03	147.64E±.06	133				
EIDC	VII	19 01 11 29.4	45.0N	147.4E	99	3.5b			
NEIC	Less reliable solution.								
ISC	**VII**	**19 01 14 15**±7.1	**43.6N**±.13	**147.8E**±.74	**64**			**31**	**2-8**
JMA	VII	19 01 14 21.4±.2	43.59N±.01	147.08E±.03	64±3				¶97vii2811
JMA	**VII**	**19 10 11 05.9**±1.1	**44.59N**±.12	**149.22E**±.12	**60**	**3.2**			¶97vii2856
JMA	**VII**	**19 11 09 50.5**±.4	**43.73N**±.04	**147.61E**±.04	**46**	**3.0**			¶97vii2862
JMA	**VII**	**19 15 40 05.4**±.4	**43.71N**±.03	**147.72E**±.02	**63**				¶97vii2908
JMA	**VII**	**19 17 54 50.5**±.7	**44.39N**±.06	**149.91E**±.08	**55**	**3.3**			¶97vii2927
ISC	**VII**	**19 20 20 50**±1.2	**43.35N**±.047	**147.7E**±.12	**58**±11	**4.0b**		**85**	**1-124**
BJI	VII	19 20 20 47.3	43.53N	147.67E	33				¶97vii2946
NEIC	VII	19 20 20 48.7	43.65N	147.50E	33	4.3b			
JMA	VII	19 20 20 51.3±.3	43.43N±.02	147.49E±.03	35	4.1			
EIDC	VII	19 20 20 53.1	43.7N	147.4E	55	3.6b			
JMA	**VII**	**19 20 24 14.2**±.8	**44.44N**±.06	**149.86E**±.08	**57**	**3.3**			¶97vii2947
JMA	**VII**	**20 05 23 22.9**±.3	**43.75N**±.02	**147.11E**±.03	**46**	**2.8**			¶97vii3022
JMA	**VII**	**20 06 15 02.0**±.3	**43.16N**±.02	**146.12E**±.02	**64**±3				¶97vii3032
ISC	**VII**	**20 08 00 44**±5.7	**43.3N**±.33	**146.2E**±.70	**80**			**4**	**0-1**
JMA	VII	20 08 00 44.4±.4	43.28N±.02	146.24E±.04	80±3				¶97vii3043
ISC	Poorly determined								
ISC	**VII**	**20 09 55 11.0**±.60	**47.96N**±.042	**152.89E**±.066	**108**±5.9	**4.4b**		**186**	**3-148**
EIDC	VII	20 09 55 11.7	48.0N	152.9E	97	4.0b,3.0s			¶97vii3064
BJI	VII	20 09 55 11.9	48.00N	152.82E	124	4.9b			
NEIC	VII	20 09 55 12.8	48.03N	152.80E	124	4.5b			
MOS	VII	20 09 55 13.7	48.1N	152.9E	132	4.4b			
JMA	VII	20 09 55 19.5±.5	46.67N±.06	153.06E±.07	144				
JMA	**VII**	**20 12 13 55.5**±.2	**43.45N**±.06	**146.88E**±.03	**89**				¶97vii3090
JMA	**VII**	**20 20 02 06.7**±.3	**43.61N**±.03	**147.86E**±.03	**9**	**2.9**			¶97vii3145
ISC	**VII**	**21 04 29 05**±1.6	**44.07N**±.073	**148.4E**±.16	**67**±16	**3.7b**		**49**	**2-82**
NEIC	VII	21 04 29 02.7	44.26N	148.36E	33	4.1b			¶97vii3189
JMA	VII	21 04 29 07.4±.5	44.05N±.04	148.04E±.06	24	4.1			
EIDC	VII	21 04 29 07.7	44.2N	148.3E	64	3.6b,3.7L			
MOS	VII	21 04 29 08.8	45.2N	148.5E	33	4.4b			
NEIC	Less reliable solution.								
ISC	**VII**	**21 04 34 16**±1.1	**43.58N**±.044	**147.7E**±.11	**40**±11	**4.1b**		**81**	**1-82**
MOS	VII	21 04 34 15.0	43.6N	147.7E	33	4.7b			¶97vii3190
JMA	VII	21 04 34 15.5±.5	43.59N±.03	147.56E±.04	22	4.4			
NEIC	VII	21 04 34 16.0	43.86N	147.45E	33	4.4b			
EIDC	VII	21 04 34 18.1	43.8N	147.5E	37	3.9b,4.0L			
NEIC	Less reliable solution.								
ISC	**VII**	**21 17 15 33**±5.1	**43.5N**±.11	**147.7E**±.50	**48**±43			**51**	**1-10**
JMA	VII	21 17 15 38.9±.4	43.57N±.02	147.13E±.03	55±4	3.8			¶97vii3266
JMA	**VII**	**22 08 53 05.8**±.3	**43.17N**±.01	**146.42E**±.03	**50**±2	**3.0**			¶97vii3347
JMA	**VII**	**22 19 37 10.9**±.7	**44.16N**±.11	**149.05E**±.07	**0**	**3.1**			¶97vii3422
JMA	**VII**	**23 08 01 17.3**±.4	**43.44N**±.04	**146.61E**±.04	**80**				¶97vii3499
JMA	**VII**	**23 15 00 21.7**±.5	**44.78N**±.04	**148.43E**±.07	**194**				¶97vii3548
ISC	**VII**	**23 16 33 38**±8.1	**43.2N**±.20	**146.3E**±.83	**48**			**10**	**0-3**
JMA	VII	23 16 33 37.6±.2	43.15N±.01	146.31E±.02	48±2	2.9			¶97vii3555
JMA	**VII**	**24 08 35 22.0**±.3	**43.67N**±.02	**147.28E**±.03	**46**	**2.8**			¶97vii3647
JMA	**VII**	**24 14 47 21.0**±.2	**43.69N**±.02	**147.23E**±.02	**53**±4	**2.8**			¶97vii3682
JMA	**VII**	**24 18 20 07.3**±.4	**43.69N**±.03	**147.11E**±.04	**77**				¶97vii3712
JMA	**VII**	**24 23 33 00.5**±.5	**43.45N**±.05	**147.46E**±.04	**19**	**3.2**			¶97vii3738
ISC	**VII**	**25 15 51 17**±7.2	**44.4N**±.41	**147.1E**±.77	**155**			**10**	**1-4**
JMA	VII	25 15 51 16.8±.5	44.38N±.05	147.21E±.07	155				¶97vii3841
JMA	**VII**	**25 16 20 41.6**±.4	**43.68N**±.03	**147.33E**±.04	**26**	**3.0**			¶97vii3844
ISC	**VII**	**25 16 25 46**±4.3	**43.8N**±.12	**146.2E**±.42	**131**±22			**26**	**1-6**
JMA	VII	25 16 25 50.6±.3	43.87N±.02	145.85E±.02	100±2				¶97vii3845
JMA	**VII**	**25 21 23 38.5**±.4	**43.40N**±.03	**146.92E**±.03	**70**±4				¶97vii3882
JMA	**VII**	**25 22 46 14.4**±.5	**43.83N**±.04	**147.85E**±.05	**31**	**3.2**			¶97vii3886
ISC	**VII**	**26 01 55 24**±1.9	**45.2N**±.39	**149.3E**±.31	**220**±32	**3.1b**		**28**	**3-81**
EIDC	VII	26 01 55 02.3	45.6N	148.8E	0	3.5b			¶97vii3898
JMA	**VII**	**26 03 41 19.4**±.4	**43.07N**±.02	**146.91E**±.04	**57**	**3.2**			¶97vii3908
JMA	**VII**	**26 06 10 29.4**±.4	**43.64N**±.03	**147.26E**±.03	**45**	**2.8**			¶97vii3928
ISC	**VII**	**26 19 29 16**±5.9	**43.4N**±.14	**146.4E**±.61	**39**±42			**21**	**0-6**
JMA	VII	26 19 29 06.8±.3	43.35N±.02	147.21E±.03	56	3.2			¶97vii4001
JMA	**VII**	**26 23 34 41.6**±.2	**43.68N**±.02	**147.28E**±.02	**51**±4	**2.8**			¶97vii4030
ISC	**VII**	**27 00 40 08.1**±.80	**43.14N**±.032	**146.60E**±.078	**39**±7.1	**4.3b,3.6s**		**129**	**1-150**
MOS	VII	27 00 40 07.1	43.2N	146.4E	33	4.7b			¶97vii4035
NEIC	VII	27 00 40 07.6	43.27N	146.42E	33	4.5b,3.8s			
BJI	VII	27 00 40 08.0	43.26N	146.91E	44	4.4b			
EIDC	VII	27 00 40 09.7	43.4N	146.4E	37	4.1b,3.5s			
JMA	VII	27 00 40 10.7±.5	43.24N±.02	146.29E±.05	42±3	4.0			
JMA	**VII**	**27 01 48 03.0**±.3	**43.09N**±.02	**147.30E**±.02	**58**	**3.8**			¶97vii4043
JMA	**VII**	**27 02 05 26.3**±.3	**43.73N**±.03	**147.79E**±.03	**0**	**3.1**			¶97vii4045
JMA	**VII**	**27 05 12 42.6**±.6	**44.12N**±.09	**149.01E**±.07	**0**	**3.2**			¶97vii4062
JMA	**VII**	**27 07 20 02.8**±.5	**44.59N**±.05	**147.81E**±.07	**133**				¶97vii4077
JMA	**VII**	**27 09 17 42.9**±.4	**43.00N**±.02	**146.96E**±.04	**44**	**3.1**			¶97vii4089
JMA	**VII**	**27 15 26 12.7**±.5	**44.25N**±.05	**147.28E**±.06	**127**				¶97vii4128
JMA	**VII**	**28 10 29 25.2**±.4	**44.13N**±.03	**148.81E**±.05	**0**	**3.5**			¶97vii4249
ISC	**VII**	**28 14 57 11**±9.3	**44.1N**±.40	**147.1E**±.98	**121**			**8**	**1-3**
JMA	VII	28 14 57 11.3±.4	44.15N±.02	147.15E±.05	121				¶97vii4292
ISC	**VII**	**29 08 06 39**±5.5	**43.1N**±.28	**146.2E**±.60	**77**			**7**	**0-2**
JMA	VII	29 08 06 39.1±.3	43.10N±.02	146.21E±.03	77±3				¶97vii4401
JMA	**VII**	**29 08 19 30.9**±.2	**43.25N**±.01	**146.37E**±.02	**44**±2	**3.3**			¶97vii4405
JMA	**VII**	**29 22 46 12.1**±.5	**43.69N**±.04	**147.52E**±.04	**40**	**3.3**			¶97vii4496
JMA	**VII**	**30 03 05 11.0**±.2	**44.19N**±.04	**147.18E**±.03	**114**±4				¶97vii4524
JMA	**VII**	**30 05 33 06.1**±.4	**43.67N**±.04	**147.23E**±.03	**29**	**2.8**			¶97vii4537
ISC	**VII**	**30 07 19 19.1**±.77	**49.74N**±.063	**153.52E**±.084	**200**±7.4	**4.1b**		**77**	**2-148**
BJI	VII	30 07 19 13.3	49.73N	153.98E	161	4.3b			¶97vii4547
NEIC	VII	30 07 19 14.2	49.86N	153.58E	150	4.3b			
MOS	VII	30 07 19 17.5	49.8N	153.5E	182	4.4b			
EIDC	VII	30 07 19 18.3	49.8N	153.5E	176	3.9b			
ISC	**VII**	**30 10 40 08**±5.0	**46.11N**±.097	**153.0E**±.12	**2**±30	**4.1b**,3.9s		**32**	**5-124**
EIDC	VII	30 10 40 09.5	46.2N	153.0E	0	3.9b,3.8L			¶97vii4571
NEIC	VII	30 10 40 12.6	46.09N	152.95E	33				
MOS	VII	30 10 40 12.9	46.1N	152.9E	33	4.0b			
JMA	**VII**	**30 10 42 26.3**±.6	**43.89N**±.05	**147.26E**±.05	**99**				¶97vii4572
JMA	**VII**	**30 19 06 39.2**±.3	**44.02N**±.04	**147.99E**±.03	**14**	**3.6**			¶97vii4623
ISC	**VII**	**30 21 03 21**±1.0	**43.60N**±.043	**147.3E**±.11	**76**±9.9	**3.9b**		**88**	**1-149**
BJI	VII	30 21 03 13.6	43.94N	148.16E	33	4.6b			¶97vii4632
MOS	VII	30 21 03 17.2	43.7N	147.3E	33	4.3b			
NEIC	VII	30 21 03 18.1	43.96N	147.21E	33	4.1b			
EIDC	VII	30 21 03 21.1	44.0N	147.3E	42	3.9b,4.0L			
JMA	VII	30 21 03 22.1±.4	43.60N±.02	147.25E±.04	49	4.1			
NEIC	Less reliable solution.								
JMA	**VII**	**30 23 33 51.4**±.3	**43.56N**±.04	**147.30E**±.03	**38**	**2.8**			¶97vii4649
ISC	**VII**	**31 01 50 16**±4.9	**43.2N**±.50	**146.1E**±.54	**72**			**6**	**0-2**
JMA	VII	31 01 50 16.0±.3	43.17N±.03	146.08E±.03	72±3				¶97vii4660
ISC	Poorly determined								
JMA	**VII**	**31 02 04 22.9**±.1	**43.42N**±.01	**147.03E**±.01	**70**±2				¶97vii4661
JMA	**VII**	**31 05 59 29.5**±.4	**43.36N**±.03	**146.86E**±.03	**41**±5	**2.9**			¶97vii4685
ISC	**VII**	**31 07 02 24**±5.3	**43.7N**±.56	**146.0E**±.54	**93**			**6**	**0-2**
JMA	VII	31 07 02 23.4±.5	43.72N±.04	146.07E±.04	93±4				¶97vii4693
ISC	Poorly determined								
JMA	**VII**	**31 07 24 05.3**±.3	**44.00N**±.04	**148.06E**±.03	**15**	**3.0**			¶97vii4697
ISC	**VII**	**31 15 23 37.0**±.52	**48.1N**±.11	**154.9E**±.14	**33**	**3.9b**		**21**	**3-76**
EIDC	VII	31 15 23 33.3	48.1N	154.8E	0	4.0b,3.8L			¶97vii4749
NEIC	VII	31 15 23 36.8	48.11N	154.86E	33	4.6b			
MOS	VII	31 15 23 36.9	48.0N	155.2E	33	4.9b			
NEIC	Less reliable solution.								
ISC	**VII**	**31 19 36 19**±6.2	**43.7N**±.29	**146.3E**±.73	**88**			**7**	**1-2**
JMA	VII	31 19 36 19.1±.3	43.64N±.02	146.26E±.03	88±3				¶97vii4780
ISC	**VIII**	**01 01 28 32**±3.2	**43.6N**±.26	**146.1E**±.45	**109**			**8**	**0-2**
JMA	VIII	01 01 28 32.0±.3	43.67N±.02	146.10E±.02	109±2				¶97viii0005
ISC	**VIII**	**01 05 32 47**±1.3	**43.18N**±.046	**146.3E**±.15	**68**±11	**3.5b**		**51**	**0-83**
NEIC	VIII	01 05 32 45.7	43.83N	146.06E	33				¶97viii0029
JMA	VIII	01 05 32 49.3±.3	43.27N±.02	146.09E±.03	51±3	4.0			
EIDC	VIII	01 05 32 50.5	43.4N	146.1E	78	3.3b,3.4L			
NEIC	Poor solution.								
JMA	**VIII**	**01 12 10 11.0**±.2	**43.13N**±.01	**146.81E**±.02	**63**±3				¶97viii0059
JMA	**VIII**	**01 17 41 17.8**±.4	**43.32N**±.02	**146.63E**±.04	**43**±4	**3.2**			¶97viii0099
JMA	**VIII**	**01 21 19 48.7**±.4	**43.41N**±.03	**147.61E**±.04	**18**	**2.8**			¶97viii0116
ISC	**VIII**	**01 21 30 41**±1.2	**47.0N**±.16	**153.6E**±.28	**33**	**3.9b**,3.3s		**16**	**15-124**
NEIC	VIII	01 21 30 41.5	47.03N	153.49E	33				¶97viii0117
EIDC	VIII	01 21 30 41.9	46.9N	153.7E	28	3.6b,3.6s			
NEIC	Less reliable solution.								
JMA	**VIII**	**01 22 20 03.0**±.4	**43.84N**±.03	**147.81E**±.04	**9**	**3.1**			¶97viii0125
JMA	**VIII**	**02 03 38 01.2**±.3	**44.18N**±.03	**147.89E**±.03	**119**±4				¶97viii0166
ISC	**VIII**	**02 09 47 02**±3.1	**43.7N**±.19	**146.2E**±.38	**113**			**10**	**0-3**
JMA	VIII	02 09 47 01.7±.3	43.66N±.02	146.19E±.03	113±2				¶97viii0194
JMA	**VIII**	**02 11 51 06.2**±.3	**43.76N**±.02	**147.26E**±.03	**41**	**3.2**			¶97viii0210
ISC	**VIII**	**02 19 35 58.2**±.78	**47.80N**±.088	**153.2E**±.12	**129**±9.0	**3.9b**		**66**	**3-77**
MOS	VIII	02 19 35 58.2	47.8N	153.3E	128	4.4b			¶97viii0252
BJI	VIII	02 19 35 59.2	48.10N	152.90E	136	4.4b			
NEIC	VIII	02 19 35 59.2	48.12N	152.89E	136	4.3b			
EIDC	VIII	02 19 36 01.2	48.2N	152.9E	137	3.6b			
NEIC	Less reliable solution.								
ISC	**VIII**	**02 22 42 05**±11	**44.7N**±.68	**146.8E**±.93	**115**			**9**	**1-4**
JMA	VIII	02 22 42 06.3±.6	44.56N±.04	146.73E±.07	115				¶97viii0266
JMA	**VIII**	**03 02 08 20.2**±.4	**43.62N**±.03	**147.26E**±.04	**45**	**3.7**			¶97viii0284
ISC	**VIII**	**03 03 58 08**±3.8	**44.2N**±.30	**146.1E**±.41	**128**			**8**	**1-3**
JMA	VIII	03 03 58 08.4±.4	44.21N±.03	146.05E±.05	128				¶97viii0293
ISC	**VIII**	**03 06 36 52**±6.3	**44.4N**±.68	**146.6E**±.59	**189**			**8**	**1-4**
JMA	VIII	03 06 36 52.9±.4	44.21N±.06	146.60E±.06	189				¶97viii0321
JMA	**VIII**	**03 06 46 04.5**±.5	**43.77N**±.04	**147.09E**±.05	**33**	**3.3**			¶97viii0324
JMA	**VIII**	**03 18 51 06**±4.7	**50.4N**±.39	**157.7E**±.32	**40**			**7**	**1-5**
KRSC	VIII	03 18 51 08.8	50.59N	157.53E	40	4.0b			¶97viii0396
JMA	**VIII**	**03 19 40 19.6**±.5	**43.73N**±.06	**147.49E**±.04	**48**	**3.0**			¶97viii0404
ISC	**VIII**	**03 20 38 26**±1.2	**44.1N**±.10	**147.6E**±.18	**144**±12	**3.6b**		**39**	**2-82**
NEIC	VIII	03 20 38 24.1	44.67N	147.45E	100	4.1b			¶97viii0409
JMA	VIII	03 20 38 26.5±.4	43.86N±.03	147.65E±.04	123				
EIDC	VIII	03 20 38 28.1	44.2N	147.4E	145	3.3b			
NEIC	Less reliable solution.								
KRSC	**VIII**	**04 00 21 25.5**	**49.48N**	**156.56E**	**32**	**3.8b**			¶97viii0434
JMA	**VIII**	**04 06 34 02.1**±.3	**43.78N**±.02	**147.15E**±.03	**69**±4				¶97viii0468
ISC	**VIII**	**04 17 18 19**±3.6	**44.04N**±.058	**149.8E**±.10	**9**±21	**4.3b**		**75**	**2-81**
SKHL	VIII	04 17 18 16.0	43.7N±.14	150.2E±.10	28±4				¶97viii0524
BJI	VIII	04 17 18 22.4	44.14N	149.64E	34	4.5b			
NEIC	VIII	04 17 18 22.6	44.17N	149.55E	33	4.6b			
JMA	VIII	04 17 18 23.1±.7	44.02N±.07	149.94E±.08	55	3.7			
EIDC	VIII	04 17 18 25.7	44.2N	149.5E	41	3.8b,3.4L			
MOS	VIII	04 17 18 27.1	44.9N	149.5E	33	4.8b			
SKHL	K10								
ISC	**VIII**	**04 18 17 20.0**±.85	**44.57N**±.076	**146.5E**±.13	**182**±6.9	**3.5b**		**51**	**1-78**
JMA	VIII	04 18 17 21.9±.4	44.52N±.03	146.43E±.04	168±3				¶97viii0528
NEIC	VIII	04 18 17 22.7	44.84N	146.31E	200				
EIDC	VIII	04 18 17 24.0	44.9N	146.3E	197	3.2b			
NEIC	Less reliable solution.								
ISC	**VIII**	**05 04 38 20**±6.2	**43.2N**±.62	**146.1E**±.78	**75**			**7**	**0-2**
JMA	VIII	05 04 38 19.8±.2	43.23N±.01	146.03E±.02	75±2				¶97viii0617
ISC	**VIII**	**06 14 18 49**±2.1	**48.6N**±.14	**155.5E**±.20	**36**±19	**3.6b**		**15**	**2-75**
NEIC	VIII	06 14 18 49.7	48.51N	155.49E	47				¶97viii0807
EIDC	VIII	06 14 18 51.7	48.5N	155.6E	44	3.4b			
SKHL	VIII	06 14 18 53.0	48.9N±.02	155.0E±.03	65±				
NEIC	Single network solution.								
SKHL	K10								
JMA	**VIII**	**06 14 26 13.7**±.5	**44.01N**±.04	**147.80E**±.05	**0**	**3.7**			¶97viii0808
ISC	**VIII**	**07 00 31 50**±2.2	**43.5N**±.12	**147.3E**±.24	**40**	2.9b		**25**	**1-70**
JMA	VIII	07 00 31 52.9±.5	43.44N±.04	146.90E±.05	40	3.5			¶97viii0863
JMA	**VIII**	**07 09 21 18.7**±.3	**43.80N**±.02	**146.89E**±.03	**74**±4				¶97viii0914
ISC	**VIII**	**07 13 18 29**±4.3	**43.3N**±.13	**146.1E**±.43	**84**±26			**20**	**0-6**
JMA	VIII	07 13 18 33.3±.2	43.33N±.01	145.68E±.02	61±2	3.0			¶97viii0944
JMA	**VIII**	**07 14 46 37.1**±.4	**43.57N**±.03	**147.71E**±.03	**24**	**3.1**			¶97viii0954
JMA	**VIII**	**07 18 02 16.3**±.5	**43.70N**±.04	**147.33E**±.04	**27**	**2.8**			¶97viii0984
JMA	**VIII**	**07 20 34 04.5**±.4	**43.69N**±.03	**147.22E**±.04	**45**	**3.4**			¶97viii0999
ISC	**VIII**	**08 01 37 18**±1.1	**44.27N**±.057	**148.7E**±.11	**47**±11	**3.7b**		**65**	**1-81**
NEIC	VIII	08 01 37 16.3	44.63N	148.29E	33	4.2b			¶97viii1038
JMA	VIII	08 01 37 18.8±.6	44.08N±.04	148.33E±.06	9	4.1			
EIDC	VIII	08 01 37 19.2	44.7N	148.2E	42	3.5b,4.0L			
SKHL	VIII	08 01 37 20.0	44.5N±.05	148.4E±.03	62±6				
NEIC	Less reliable solution.								

SKHL K10
ISC VIII 08 11 06 39±4.4 **45.8N**±.81 **149.3E**±.44 **33** **3.7b** **5 39-80**
EIDC VIII 08 11 06 35.0 45.6N 149.3E 0 3.7b ¶97viii1103
JMA VIII 08 18 46 09.8±.5 **44.08N**±.05 **147.14E**±.07 **132** ¶97viii1150
ISC VIII 08 23 39 27±9.6 **43.2N**±.19 **146.3E**±.95 **46**±44 **9 0-3**
JMA VIII 08 23 39 20.8±.4 43.13N±.03 146.92E±.04 67 ¶97viii1179
JMA VIII 09 05 55 51.4±.3 **43.94N**±.03 **147.09E**±.04 **85**±4 ¶97viii1209
JMA VIII 09 06 40 42.9±.5 **43.38N**±.03 **146.84E**±.04 **42** **3.5** ¶97viii1214
ISC VIII 09 12 44 53±2.2 **43.52N**±.080 **147.8E**±.24 **80**±22 **3.3b** **37 1-82**
EIDC VIII 09 12 44 45.2 43.5N 147.8E 0 3.5b ¶97viii1250
JMA VIII 09 12 44 52.4±.5 43.61N±.04 147.67E±.04 22 3.8
JMA VIII 09 15 16 25.9±.7 **43.53N**±.06 **147.83E**±.06 **24** **2.8** ¶97viii1273
JMA VIII 09 17 38 49.5±.4 **43.70N**±.03 **147.61E**±.04 **11** **2.9** ¶97viii1295
ISC VIII 10 14 15 36±2.3 **48.03N**±.082 **155.3E**±.11 **19**±15 **4.5b,4.1s** **82 3-147**
EIDC VIII 10 14 15 35.3 48.3N 155.0E 0 4.2b,4.1s ¶97viii1404
SKHL VIII 10 14 15 36.0 47.8N±.13 155.6E±.18 33±9
BJI VIII 10 14 15 36.1 47.94N 155.00E 30 4.8b,4.7s
NEIC VIII 10 14 15 39.0 48.18N 155.09E 33 4.9b
MOS VIII 10 14 15 39.5 48.2N 155.2E 37 5.3b,3.7s
SKHL K10.5
JMA VIII 10 17 39 28.0±.5 **43.21N**±.03 **146.38E**±.05 **51** **2.8** ¶97viii1430
ISC VIII 10 22 38 06.4±.53 **43.02N**±.027 **146.32E**±.063 **78**±4.3 **4.3b** **150 1-155**
MOS VIII 10 22 38 05.6 43.1N 146.2E 69 4.8b ¶97viii1470
BJI VIII 10 22 38 06.6 43.31N 146.15E 74 4.7b
NEIC VIII 10 22 38 06.8 43.18N 146.18E 75 4.4b
SKHL VIII 10 22 38 08.0 43.2N±.07 146.1E±.19 79±3
EIDC VIII 10 22 38 08.5 43.3N 146.1E 72 4.0b,3.4s
JMA VIII 10 22 38 09.0±.3 43.11N±.02 146.10E±.03 70±2 4.5
SKHL K10 Felt I=II–III MSK at Juzhno–Kurilsk
JMA Felt I=II J1
ISC VIII 11 07 18 15±1.6 **48.2N**±.34 **154.9E**±.32 **35** **3.7b** **6 22-76**
EIDC VIII 11 07 18 17.0 48.1N 154.8E 35 3.5b ¶97viii1522
JMA VIII 11 17 00 46.7±.6 **43.67N**±.04 **147.16E**±.05 **30** **2.9** ¶97viii1591
ISC VIII 12 08 36 33±2.1 **43.13N**±.083 **147.5E**±.23 **33** 3.9b **18 1-70**
JMA VIII 12 08 36 36.0±.5 43.27N±.04 147.11E±.05 33 3.5 ¶97viii1703
ISC VIII 12 09 48 25.5±.82 **43.55N**±.038 **147.50E**±.085 **46**±8.1 **4.0b**,3.9s **91 1-83**
MOS VIII 12 09 48 25.5 43.7N 147.5E 41 4.8b ¶97viii1716
BJI VIII 12 09 48 25.7 43.71N 147.36E 54 4.4b
NEIC VIII 12 09 48 26.5 43.76N 147.23E 49 4.5b
EIDC VIII 12 09 48 28.0 43.7N 147.3E 52 3.7b
SKHL VIII 12 09 48 28.0 43.8N 147.2E 50
JMA VIII 12 09 48 28.9±.5 43.58N±.03 147.14E±.05 43 4.1
SKHL K10.5
JMA VIII 13 12 46 50.4±.3 **43.82N**±.02 **147.26E**±.03 **41** **3.0** ¶97viii1908
JMA VIII 13 12 51 26.2±.4 **44.01N**±.05 **148.34E**±.04 **39** **3.7** ¶97viii1909
JMA VIII 14 00 01 11.8±.3 **43.64N**±.02 **147.16E**±.02 **42**±5 **3.1** ¶97viii1984
ISC VIII 14 04 32 39±2.4 **43.13N**±.063 **147.3E**±.23 **47**±24 **3.6b** **50 1-83**
EIDC VIII 14 04 32 36.4 43.6N 147.2E 0 3.7b,3.8L ¶97viii2003
NEIC VIII 14 04 32 39.3 43.66N 147.01E 33
JMA VIII 14 04 32 41.4±.4 43.24N±.02 147.01E±.04 42 4.0
NEIC Poor solution.
JMA VIII 14 08 37 42.6±.3 **43.24N**±.02 **146.41E**±.03 **47**±3 **2.9** ¶97viii2029
JMA VIII 14 10 02 44.5±.4 **43.64N**±.04 **147.38E**±.04 **50** **2.8** ¶97viii2041
JMA VIII 14 13 58 06.3±.3 **43.18N**±.02 **146.88E**±.03 **49**±4 **2.9** ¶97viii2072
JMA VIII 14 14 47 28.8±.4 **43.78N**±.03 **147.49E**±.04 **9** **2.9** ¶97viii2080
ISC VIII 15 05 19 48±8.9 **44.3N**±.93 **146.7E**±.68 **176** **7 1-4**
JMA VIII 15 05 19 48.2±.5 44.22N±.07 146.71E±.06 176 ¶97viii2163
JMA VIII 15 05 39 42.4±.4 **43.88N**±.03 **147.26E**±.04 **50** **3.2** ¶97viii2166
JMA VIII 15 10 50 24.9±.5 **43.42N**±.03 **146.70E**±.05 **46** **3.0** ¶97viii2206
JMA VIII 15 22 42 43.1±.3 **43.54N**±.03 **147.26E**±.03 **51** **3.7** ¶97viii2284
ISC VIII 16 02 50 23.7±.92 **47.5N**±.19 **152.3E**±.23 **33** **3.5b** **7 21-78**
EIDC VIII 16 02 50 20.4 47.7N 152.3E 0 3.6b ¶97viii2307
NEIC VIII 16 02 50 23.5 47.54N 152.31E 33
NEIC Single network solution.
JMA VIII 16 13 50 38.2±.4 **43.19N**±.02 **147.15E**±.04 **57** **3.2** ¶97viii2378
ISC VIII 16 15 31 08±1.3 **47.5N**±.15 **152.2E**±.21 **114**±14 **3.7b** **14 4-78**
SKHL VIII 16 15 31 02.0 47.8N±.01 151.8E±.01 315±1 ¶97viii2389
NEIC VIII 16 15 31 06.4 47.53N 152.26E 100 4.1b
EIDC VIII 16 15 31 09.2 47.5N 152.2E 112 3.4b,3.9L
NEIC Less reliable solution.
JMA VIII 17 06 57 15.1±.6 **44.30N**±.08 **148.21E**±.08 **135** ¶97viii2504
ISC VIII 18 08 15 53±9.8 **44.2N**±.37 **146.1E**±.76 **127**±56 **12 1-3**
JMA VIII 18 08 15 53.9±.4 44.15N±.02 146.03E±.04 123±4 ¶97viii2644
ISC VIII 18 17 26 26±4.8 **50.1N**±.12 **153.9E**±.18 **196**±47 **3.4b** **17 18-76**
NEIC VIII 18 17 26 26.5 50.09N 153.90E 200 ¶97viii2696
EIDC VIII 18 17 26 28.9 50.1N 153.9E 206 3.2b
NEIC Less reliable solution.
ISC VIII 19 03 19 56.4±.98 **45.49N**±.087 **150.2E**±.13 **131**±11 **3.7b** **60 2-80**
NEIC VIII 19 03 19 55.6 46.14N 149.84E 100 4.0b ¶97viii2754
SKHL VIII 19 03 19 57.0 45.6N±.05 150.2E±.07 132±1
EIDC VIII 19 03 19 57.9 46.1N 149.9E 108 3.6b
JMA VIII 19 03 20 04.2±.4 45.05N±.02 149.62E±.05 155
NEIC Less reliable solution.
SKHL K10
JMA VIII 19 13 19 25.5±.4 **43.63N**±.02 **146.77E**±.04 **58**±4 **3.6** ¶97viii2813
JMA VIII 19 14 36 09.6±.4 **43.52N**±.02 **146.78E**±.03 **41**±4 **2.9** ¶97viii2821
ISC VIII 19 21 11 45±5.6 **43.41N**±.079 **147.9E**±.54 **45**±43 3.6b **41 2-70**
JMA VIII 19 21 11 51.5±.4 43.45N±.02 147.19E±.03 52 3.7 ¶97viii2871
ISC VIII 19 23 11 17±1.4 **45.8N**±.18 **151.6E**±.26 **33** **3.6b** **15 5-79**
EIDC VIII 19 23 11 16.4 45.8N 149.7E 0 3.7b ¶97viii2879
JMA VIII 20 15 25 09.7±.5 **44.41N**±.07 **148.32E**±.06 **133** ¶97viii2981
ISC VIII 20 22 11 57±4.4 **44.1N**±.25 **146.1E**±.45 **107** **10 1-3**
JMA VIII 20 22 11 57.0±.4 44.04N±.02 146.11E±.04 107±3 ¶97viii3024
ISC VIII 21 04 26 37±5.4 **44.5N**±.61 **146.4E**±.57 **203** **9 1-6**
JMA VIII 21 04 26 37.8±.4 44.40N±.05 146.53E±.07 203 ¶97viii3052
ISC VIII 21 05 36 05±3.3 **43.8N**±.65 **146.2E**±.50 **175** **6 1-3**
JMA VIII 21 05 36 05.4±.4 43.85N±.05 146.21E±.03 175±2 ¶97viii3060
ISC VIII 21 22 57 51.6±.88 **48.8N**±.15 **152.4E**±.20 **243**±10 **3.6b** **14 3-77**
SKHL VIII 21 22 57 51.0 48.9N±.02 152.5E±.02 270±1 ¶97viii3154
NEIC VIII 21 22 57 52.8 49.07N 152.05E 259 3.5b
EIDC VIII 21 22 57 54.4 49.1N 152.0E 259 3.3b
NEIC Poor solution.
JMA VIII 22 19 32 29.1±.3 **43.81N**±.02 **147.11E**±.03 **50**±5 **3.2** ¶97viii3270
JMA VIII 22 21 49 02.5±.5 **43.47N**±.04 **146.84E**±.04 **35** **2.8** ¶97viii3294
ISC VIII 23 07 52 49.0±.89 **46.56N**±.052 **153.01E**±.079 **49**±9.5 **4.3b,3.5s** **108 4-149**
JMA VIII 23 07 52 48.7±.6 46.20N±.07 153.36E±.08 0 4.3 ¶97viii3362
SKHL VIII 23 07 52 49.0 46.5N±.11 153.3E±.10 60±9
MOS VIII 23 07 52 49.9 46.7N 153.0E 51 4.9b
NEIC VIII 23 07 52 51.4 46.73N 152.87E 71 4.6b
EIDC VIII 23 07 52 53.5 46.9N 152.8E 68 3.8b,3.6s

SKHL K11
JMA VIII 23 09 06 11.2±.2 **43.62N**±.04 **147.40E**±.02 **36** **2.9** ¶97viii3374
JMA VIII 23 09 30 16.2±.6 **44.08N**±.08 **147.90E**±.07 **0** **3.3** ¶97viii3381
JMA VIII 23 14 05 15.3±.4 **43.22N**±.02 **146.45E**±.03 **51**±3 **2.8** ¶97viii3411
JMA VIII 23 14 10 33.4±.3 **43.59N**±.02 **147.17E**±.03 **38** **3.5** ¶97viii3412
ISC VIII 23 18 25 51±12 **45.1N**±.70 **147.0E**±.91 **238**±44 **35 2-9**
JMA VIII 23 18 25 58.6±.4 44.65N±.05 146.50E±.05 207 ¶97viii3436
JMA VIII 24 04 17 26.0±.3 **43.23N**±.02 **146.28E**±.03 **48**±2 **2.9** ¶97viii3479
JMA VIII 24 08 31 45.2±.3 **43.20N**±.02 **146.33E**±.03 **51**±3 **3.0** ¶97viii3500
ISC VIII 24 10 57 01±6.4 **43.5N**±.18 **146.3E**±.69 **65** **9 0-2**
JMA VIII 24 10 57 01.2±.2 43.56N±.01 146.32E±.02 65±2 ¶97viii3521
JMA VIII 24 21 01 37.6±.2 **43.60N**±.02 **147.32E**±.02 **41** **3.0** ¶97viii3590
JMA VIII 24 22 57 05.1±.3 **43.39N**±.03 **146.99E**±.02 **52**±4 **3.1** ¶97viii3603
ISC VIII 25 01 07 39±2.5 **43.6N**±.13 **147.5E**±.27 **62**±25 **3.8b** **27 1-83**
EIDC VIII 25 01 07 32.2 43.5N 147.5E 0 3.8b ¶97viii3615
NEIC VIII 25 01 07 35.3 43.47N 147.47E 33
JMA VIII 25 01 07 37.4±.5 43.65N±.04 147.47E±.05 27 3.7
NEIC Poor solution.
ISC VIII 25 03 07 24±1.5 **44.21N**±.055 **148.3E**±.17 **52**±14 **3.8b** **52 1-82**
EIDC VIII 25 03 07 19.6 44.5N 148.0E 0 3.9b,3.6L ¶97viii3633
NEIC VIII 25 03 07 22.5 44.48N 147.93E 33 4.0b
SKHL VIII 25 03 07 26.0 44.3N±.16 148.1E±.13 35±6
JMA VIII 25 03 07 26.8±.7 44.11N±.04 147.90E±.07 30 4.1
NEIC Less reliable solution.
SKHL K10
ISC VIII 25 03 21 55±3.3 **43.8N**±.22 **146.3E**±.40 **124** **11 1-3**
JMA VIII 25 03 21 55.1±.3 43.75N±.02 146.36E±.03 124±2 ¶97viii3635
ISC VIII 25 07 22 00±9.2 **43.6N**±.11 **146.4E**±.95 **70**±29 **27 1-6**
JMA VIII 25 07 21 59.6±.4 43.59N±.02 146.40E±.04 75±3 ¶97viii3668
JMA VIII 25 11 14 41.2±.3 **43.59N**±.02 **147.81E**±.03 **31** **3.1** ¶97viii3683
ISC VIII 25 14 50 26±6.8 **43.3N**±.32 **146.3E**±.76 **77** **7 0-2**
JMA VIII 25 14 50 26.6±.4 43.26N±.03 146.32E±.03 77±3 ¶97viii3705
JMA VIII 25 19 30 06.8±.6 **43.21N**±.03 **146.89E**±.05 **44** **3.2** ¶97viii3729
ISC VIII 26 07 23 09±9.6 **44.4N**±.80 **147.0E**±.87 **158** **6 1-4**
JMA VIII 26 07 23 08.4±.4 44.51N±.04 147.03E±.06 158 ¶97viii3803
ISC VIII 26 09 20 38±1.3 **43.7N**±.13 **147.8E**±.16 **0** **3.8b** **27 2-82**
JMA VIII 26 09 20 40.6±.3 43.67N±.03 147.45E±.05 0±4 3.5 ¶97viii3824
EIDC VIII 26 09 20 50.6 45.9N 146.6E 0 3.7b,4.4s
JMA VIII 26 13 56 19.8±.3 **43.39N**±.02 **147.16E**±.03 **62**±5 ¶97viii3857
ISC VIII 27 07 00 42±5.6 **43.2N**±.30 **146.2E**±.62 **74** **5 0-2**
JMA VIII 27 07 00 42.1±.4 43.20N±.03 146.21E±.04 74 ¶97viii3950
ISC VIII 27 23 48 49±5.3 **44.5N**±.33 **146.5E**±.52 **154** **10 1-4**
JMA VIII 27 23 48 49.7±.5 44.45N±.04 146.46E±.06 154 ¶97viii4059
JMA VIII 28 06 24 28.6±.3 **43.18N**±.02 **147.17E**±.02 **50**±5 **3.4** ¶97viii4096
ISC VIII 28 14 15 07±1.1 **44.16N**±.046 **148.4E**±.12 **52**±12 **3.6b** **67 1-82**
NEIC VIII 28 14 15 06.1 44.40N 148.16E 33 ¶97viii4142
JMA VIII 28 14 15 09.3±.5 44.18N±.04 148.00E±.06 23 4.0
EIDC VIII 28 14 15 09.9 44.4N 148.0E 49 3.4b,3.6L
SKHL VIII 28 14 15 11.0 44.4N±.09 148.1E±.11 45±5
NEIC Single network solution.
SKHL K10
JMA VIII 28 16 25 51.2±.4 **43.56N**±.03 **147.18E**±.03 **59** **3.0** ¶97viii4164
ISC VIII 28 18 56 42±5.9 **44.2N**±.52 **146.6E**±.79 **181** **8 1-3**
JMA VIII 28 18 56 42.2±.3 44.18N±.03 146.64E±.04 181±3 ¶97viii4176
JMA VIII 28 20 37 24.3±.3 **43.68N**±.03 **147.34E**±.03 **26** **3.2** ¶97viii4181
JMA VIII 28 23 40 03.1±.2 **43.36N**±.02 **146.86E**±.02 **49**±3 **2.8** ¶97viii4201
JMA VIII 29 01 24 33.6±.7 **43.66N**±.07 **147.71E**±.05 **9** **3.1** ¶97viii4214
ISC VIII 29 02 17 38±2.2 **45.33N**±.059 **151.3E**±.11 **29**±16 **4.0b**,4.2s **77 2-150**
MOS VIII 29 02 17 38.9 45.4N 151.5E 33 4.7b ¶97viii4221
NEIC VIII 29 02 17 39.7 45.56N 151.08E 33 4.6b,4.2s
JMA VIII 29 02 17 40.2±.5 44.88N±.05 151.45E±.06 0 4.3
SKHL VIII 29 02 17 41.0 45.5N±.16 151.2E±.14 42±8
EIDC VIII 29 02 17 43.4 45.5N 151.1E 49 3.8b,4.0L
SKHL K10
JMA VIII 29 09 36 42.3±.6 **43.24N**±.05 **147.85E**±.06 **37** **3.3** ¶97viii4269
JMA VIII 29 10 45 19.9±.5 **43.71N**±.03 **147.19E**±.04 **43** **2.9** ¶97viii4280
ISC VIII 30 07 12 45.7±.83 **45.11N**±.047 **151.09E**±.071 **42**±7.2 **4.6b,3.9s** **141 2-151**
EIDC VIII 30 07 12 42.2 45.5N 151.0E 0 4.3b,3.8s ¶97viii4453
SKHL VIII 30 07 12 44.0 45.1N±.16 151.4E±.24 43±2
JMA VIII 30 07 12 44.8±.5 44.76N±.05 151.44E±.05 0 4.6
MOS VIII 30 07 12 45.4 45.4N 151.0E 33 5.0b
BJI VIII 30 07 12 45.5 45.43N 151.05E 39 4.7b
NEIC VIII 30 07 12 45.5 45.35N 150.87E 33 4.9b
SKHL K10
EIDC VIII 30 15 37 00.0 47.2N 150.2E 0 3.5b **37-79**
¶97viii4507
ISC VIII 30 21 16 01±1.7 **45.07N**±.051 **151.25E**±.083 **27**±12 **4.6b,4.0s** **156 2-150**
JMA VIII 30 21 16 02.3±.5 44.80N±.05 151.48E±.05 0 4.6 ¶97viii4534
MOS VIII 30 21 16 03.0 45.4N 150.8E 25 5.2b
SKHL VIII 30 21 16 03.0 45.1N±.10 151.4E±.14 50±8
NEIC VIII 30 21 16 04.1 45.40N 150.83E 36 4.8b,4.0s
BJI VIII 30 21 16 04.4 45.55N 150.77E 31 4.7b
EIDC VIII 30 21 16 06.1 45.5N 150.9E 37 4.0b,4.0L
SKHL K10
ISC VIII 30 21 38 33.2±.82 **44.53N**±.051 **148.40E**±.096 **69**±6.9 **3.9b** **79 1-85**
BJI VIII 30 21 38 32.0 44.70N 148.20E 54 4.6b ¶97viii4537
NEIC VIII 30 21 38 32.0 44.70N 148.24E 54 4.4b
JMA VIII 30 21 38 32.8±.6 44.21N±.05 148.44E±.06 25 4.1
MOS VIII 30 21 38 33.6 44.5N 148.4E 76 4.7b
SKHL VIII 30 21 38 34.0 44.6N±.11 148.4E±.10 66±2
EIDC VIII 30 21 38 34.2 44.8N 148.2E 54 3.7b,3.5s
SKHL K10
JMA VIII 31 06 37 13.2±.2 **43.26N**±.02 **147.22E**±.02 **57**±4 **3.0** ¶97viii4601
JMA VIII 31 08 28 56.8±.5 **43.55N**±.04 **147.44E**±.04 **21** **3.0** ¶97viii4622
JMA VIII 31 22 26 46.4±.4 **43.38N**±.05 **147.48E**±.03 **57** **2.8** ¶97viii4719
ISC IX 01 07 11 27±6.3 **43.2N**±.29 **146.3E**±.68 **75** **7 0-2**
JMA IX 01 07 11 26.4±.3 43.12N±.02 146.27E±.02 75±2 ¶97ix0068
JMA IX 01 08 54 05.4±.4 **44.05N**±.05 **148.04E**±.04 **19** **3.4** ¶97ix0077
ISC IX 01 09 32 45.3±.69 **43.30N**±.058 **147.27E**±.081 **34** **3.6b** **42 1-83**
EIDC IX 01 09 32 42.4 43.7N 146.8E 0 3.6b,3.0L ¶97ix0088
NEIC IX 01 09 32 45.3 43.67N 146.68E 33
JMA IX 01 09 32 48.1±.5 43.45N±.02 146.91E±.04 34±5 3.7
NEIC Less reliable solution.
JMA IX 01 14 35 51.1±.4 **43.54N**±.03 **147.50E**±.03 **24** **3.0** ¶97ix0116
JMA IX 01 15 03 03.9±.4 **43.08N**±.02 **146.97E**±.04 **61** ¶97ix0125
ISC IX 01 15 15 29±9.8 **44.3N**±.40 **147.3E**±.91 **160**±31 **25 1-7**
JMA IX 01 15 15 36.0±.5 44.11N±.04 146.68E±.06 132 ¶97ix0127
JMA IX 01 16 56 58.0±.4 **43.87N**±.04 **147.78E**±.04 **31** **3.5** ¶97ix0141
JMA IX 01 22 36 13.6±.3 **43.78N**±.02 **147.33E**±.02 **50** **2.9** ¶97ix0175
JMA IX 02 00 54 59.2±.4 **43.25N**±.04 **147.32E**±.04 **53** **3.1** ¶97ix0194

Agency		Origin Time			ϕ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
JMA	**IX**	**02**	**01 23**	**20.0**±.6	**44.08N**±.08	**148.34E**±.06	**6**	**3.5**		**¶97ix0200**
JMA	**IX**	**02**	**01 57**	**43.6**±.4	**43.26N**±.02	**146.56E**±.04	**48**±3	**3.2**		**¶97ix0203**
JMA	**IX**	**02**	**02 50**	**54.4**±.3	**43.39N**±.02	**147.18E**±.03	**58**	**3.4**		**¶97ix0210**
JMA	**IX**	**02**	**10 26**	**13.8**±.5	**43.78N**±.04	**146.38E**±.04	**61**			**¶97ix0258**
JMA	**IX**	**03**	**15 19**	**05.6**±.4	**43.24N**±.02	**146.84E**±.03	**60**±5	**2.5**		**¶97ix0442**
ISC	**IX**	**03**	**22 00**	**44**±1.2	**48.7N**±.24	**155.3E**±.25	**33**	**3.9b**	**9**	**23-77**
EIDC	IX	03	22 00	40.7	48.7N	155.4E	0	3.9b		**¶97ix0497**
NEIC	IX	03	22 00	43.7	48.73N	155.38E	33			
NEIC	Single network solution.									
JMA	**IX**	**03**	**22 17**	**39.9**±.5	**43.28N**±.03	**147.34E**±.04	**42**	**3.6**		**¶97ix0500**
ISC	**IX**	**04**	**07 25**	**59**±1.9	**43.18N**±.069	**147.9E**±.20	**44**	4.0b	**43**	**2-70**
JMA	IX	04	07 26	04.4±.4	43.28N±.03	147.30E±.03	44	4.1		**¶97ix0562**
ISC	**IX**	**04**	**19 22**	**00**±1.4	**43.32N**±.071	**148.0E**±.14	**14**	3.8b	**40**	**2-56**
JMA	IX	04	19 22	03.8±.5	43.45N±.04	147.51E±.05	14	3.7		**¶97ix0626**
ISC	**IX**	**04**	**21 44**	**09**±6.2	**43.2N**±.48	**146.0E**±.65	**64**		**5**	**0-2**
JMA	IX	04	21 44	09.1±.2	43.19N±.01	146.03E±.02	64±2			**¶97ix0639**
ISC	Poorly determined									
JMA	**IX**	**05**	**00 24**	**05.4**±.5	**43.60N**±.04	**147.40E**±.04	**61**			**¶97ix0656**
JMA	**IX**	**05**	**09 01**	**07.8**±.4	**43.64N**±.04	**147.33E**±.03	**35**	**2.8**		**¶97ix0721**
ISC	**IX**	**05**	**10 31**	**36.6**±.12	**44.31N**±.023	**149.94E**±.027	**56**±.5*	**5.4b,5.1s**	**656**	**2-154**
BJI	IX	05	10 31	33.8	44.60N	149.95E	34	5.3b,5.1s		**¶97ix0734**
NEIC	IX	05	10 31	34.9	44.62N	150.01E	33	5.6b,5.0s		
SKHL	IX	05	10 31	35.0	44.5N±.14	150.1E±.10	48±4			
JMA	IX	05	10 31	35.3±.6	44.20N±.09	150.31E±.06	35	5.1		
HRVD	IX	05	10 31	36.4±.3	44.61N±.03	150.10E±.06	36±2.9			
MOS	IX	05	10 31	36.9	44.8N	150.0E	41	6.2b,5.3s		
EIDC	IX	05	10 31	39.5	44.7N	149.8E	60	4.9b,5.3s		
NEIC	Mw5.5(GS), Mw5.4(HRV).									
NEIC	Moment tensor solution: s22, scale 10^{17}Nm; M_{rr}−0.44; $M_{\theta\theta}$0.37; $M_{\phi\phi}$0.08; $M_{r\theta}$1.71; $M_{r\phi}$0.53; $M_{\theta\phi}$0.14. Depth 26km; Principal axes: T 1.83,Plg38°,Azm342°; N 0.02,Plg1°,Azm72°; P −1.85,Plg52°,Azm164°. Best double couple: $M_0$1.8×10^{17}Nm; NP1:ϕ_S65°,δ7°,λ−97°. NP2: ϕ_S253°,δ83°,λ−89°.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c52; Mantle waves: s6,c6; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.00±.04; $M_{\theta\theta}$1.02±.05; $M_{\phi\phi}$−0.02±.05; $M_{r\theta}$0.84±.10; $M_{r\phi}$0.62±.09; $M_{\theta\phi}$0.29±.05. Principal Axes: T 1.49,Plg22°,Azm340°; N −0.02,Plg12°,Azm245°; P −1.47,Plg65°,Azm129°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S91°,δ25°,λ−62°. NP2:ϕ_S240°,δ68°,λ−103°.									
JMA	**IX**	**05**	**17 33**	**22.5**±.2	**43.64N**±.01	**147.28E**±.02	**46**±3	**2.9**		**¶97ix0776**
JMA	**IX**	**06**	**02 31**	**03.9**±.5	**43.20N**±.03	**146.85E**±.04	**56**	**3.3**		**¶97ix0844**
ISC	**IX**	**06**	**07 25**	**52**±9.5	**43.6N**±.18	**146.5E**±.91	**16**		**11**	**1-3**
JMA	IX	06	07 25	42.9±.5	43.64N±.04	147.31E±.05	16	3.2		**¶97ix0876**
JMA	**IX**	**06**	**16 02**	**33.3**±.2	**43.17N**±.02	**146.93E**±.02	**60**±3	**2.7**		**¶97ix0942**
JMA	**IX**	**06**	**17 38**	**57.5**±.3	**43.85N**±.02	**146.99E**±.03	**70**±4			**¶97ix0949**
JMA	**IX**	**06**	**21 40**	**06.2**±.4	**43.11N**±.02	**146.31E**±.03	**48**±3	**2.8**		**¶97ix0970**
JMA	**IX**	**07**	**11 39**	**34.1**±.3	**43.80N**±.03	**147.34E**±.03	**35**	**2.9**		**¶97ix1059**
JMA	**IX**	**08**	**07 51**	**29.3**±.3	**43.55N**±.05	**147.40E**±.03	**45**	**2.9**		**¶97ix1192**
ISC	**IX**	**08**	**17 18**	**32**±1.2	**43.02N**±.051	**147.0E**±.13	**50**	**3.8b**	**42**	**1-83**
EIDC	IX	08	17 18	32.1	43.7N	146.6E	0	3.8b		**¶97ix1250**
JMA	IX	08	17 18	36.9±.3	43.19N±.02	146.46E±.03	50±3	3.5		
EIDC	LO CONF Location									
JMA	**IX**	**08**	**18 56**	**41.3**±.5	**43.75N**±.03	**147.65E**±.05	**105**			**¶97ix1267**
KRSC	**IX**	**08**	**19 54**	**59.5**	**49.82N**	**156.95E**	**28**	**3.9b**		**¶97ix1271**
JMA	**IX**	**08**	**21 47**	**13.8**±.2	**43.75N**±.04	**147.67E**±.02	**42**	**2.9**		**¶97ix1284**
ISC	**IX**	**08**	**22 04**	**17**±2.1	**43.41N**±.061	**147.5E**±.23	**75**±18	**3.9b**	**55**	**1-83**
JMA	IX	08	22 04	18.5±.4	43.46N±.02	147.27E±.04	53	4.0		**¶97ix1287**
EIDC	IX	08	22 04	38.3	48.3N	146.6E	0	3.9b		
JMA	**IX**	**09**	**04 13**	**13.4**±.6	**43.72N**±.04	**147.51E**±.05	**36**	**3.2**		**¶97ix1323**
ISC	**IX**	**09**	**05 43**	**56**±1.0	**44.22N**±.053	**148.5E**±.11	**48**±11	**4.0b**,3.8s	**72**	**1-82**
NEIC	IX	09	05 43	55.2	44.52N	148.20E	33	4.4b		**¶97ix1330**
SKHL	IX	09	05 43	58.0	44.3N±.20	148.4E±.20	55±4			
JMA	IX	09	05 43	58.7±.5	44.19N±.04	148.24E±.05	51	4.3		
EIDC	IX	09	05 43	58.7	44.6N	148.1E	49	3.7b,3.3s		
NEIC	Less reliable solution.									
SKHL	K10.5									
JMA	**IX**	**09**	**09 15**	**45.9**±.2	**43.72N**±.01	**147.23E**±.02	**50**±3	**2.9**		**¶97ix1347**
JMA	**IX**	**09**	**18 12**	**07.0**±.4	**44.04N**±.03	**147.19E**±.04	**66**			**¶97ix1422**
JMA	**IX**	**09**	**22 40**	**22.3**±.2	**43.50N**±.02	**147.25E**±.02	**52**	**3.0**		**¶97ix1448**
ISC	**IX**	**09**	**23 16**	**38.3**±.72	**49.52N**±.049	**156.34E**±.055	**51**±5.6	**4.8b,3.8s**	**192**	**1-146**
KRSC	IX	09	23 16	37.2	49.32N	156.79E	40	4.8b		**¶97ix1452**
MOS	IX	09	23 16	37.7	49.5N	156.2E	47	4.9b		
SKHL	IX	09	23 16	38.0	49.4N±.04	156.6E±.11	44±7			
NEIC	IX	09	23 16	39.3	49.53N	156.35E	61	4.9b		
BJI	IX	09	23 16	39.5	48.80N	156.08E	45	4.3b		
EIDC	IX	09	23 16	40.8	49.6N	156.2E	63	4.2b,3.7s		
SKHL	K10.4 Felt I=II−III MSK at Severo−Kurilsk									
JMA	**IX**	**10**	**16 29**	**25.9**±.3	**43.70N**±.02	**147.17E**±.03	**43**	**3.1**		**¶97ix1546**
JMA	**IX**	**10**	**22 27**	**12.8**±.3	**43.69N**±.02	**147.24E**±.03	**53**	**3.3**		**¶97ix1588**
ISC	**IX**	**11**	**01 15**	**36**±4.0	**50.6N**±.36	**157.7E**±.33	**40**		**6**	**1-3**
KRSC	IX	11	01 15	36.4	50.62N	157.68E	40	3.8b		**¶97ix1607**
ISC	**IX**	**11**	**04 29**	**51.7**±.39	**43.56N**±.045	**147.64E**±.057	**45**±2.9*	**3.9b**,3.3s	**71**	**1-82**
NEIC	IX	11	04 29	51.1	43.85N	147.35E	33	4.4b		**¶97ix1631**
MOS	IX	11	04 29	51.4	43.7N	147.6E	34	4.9b		
JMA	IX	11	04 29	51.5±.4	43.63N±.03	147.57E±.04	33	4.4		
SKHL	IX	11	04 29	54.0	43.8N±.11	147.4E±.07	52±4			
EIDC	IX	11	04 29	54.2	43.9N	147.4E	45	3.7b,4.1L		
NEIC	Less reliable solution.									
SKHL	K10									
ISC	**IX**	**11**	**14 51**	**44**±6.8	**43.5N**±.26	**146.4E**±.78	**77**		**6**	**0-2**
JMA	IX	11	14 51	44.3±.4	43.47N±.03	146.40E±.04	77±3			**¶97ix1691**
ISC	**IX**	**11**	**18 04**	**37**±6.5	**43.1N**±.45	**146.2E**±.70	**68**		**5**	**0-2**
JMA	IX	11	18 04	37.2±.4	43.16N±.03	146.17E±.04	68±3			**¶97ix1720**
ISC	Poorly determined									
JMA	**IX**	**12**	**15 23**	**16.3**±.5	**43.52N**±.04	**147.66E**±.05	**24**	**3.6**		**¶97ix1829**
JMA	**IX**	**12**	**15 46**	**04.0**±.5	**44.09N**±.05	**147.91E**±.05	**0**	**3.3**		**¶97ix1837**
JMA	**IX**	**13**	**14 41**	**59.1**±.4	**43.60N**±.03	**147.07E**±.04	**37**	**2.9**		**¶97ix1988**
ISC	**IX**	**13**	**15 55**	**52.9**±.70	**46.45N**±.090	**152.6E**±.12	**59**	**3.6b**	**48**	**4-79**
NEIC	IX	13	15 55	50.7	46.58N	152.77E	33			**¶97ix1992**
JMA	IX	13	15 55	51.8±.7	45.86N±.08	153.07E±.10	0	4.0		
SKHL	IX	13	15 55	52.0	46.3N±.16	153.0E±.17	59±9			
EIDC	IX	13	15 56	04.2	46.6N	152.7E	139	3.3b		
NEIC	Less reliable solution.									
SKHL	K10									
JMA	**IX**	**13**	**16 59**	**54.4**±.6	**43.57N**±.05	**147.78E**±.05	**16**	**3.2**		**¶97ix1996**
JMA	**IX**	**13**	**21 54**	**19.4**±.3	**43.43N**±.06	**147.27E**±.03	**65**			**¶97ix2039**
ISC	**IX**	**14**	**10 35**	**16**±2.9	**44.8N**±.27	**146.2E**±.30	**224**		**17**	**1-5**
JMA	IX	14	10 35	16.5±.4	44.75N±.05	146.17E±.06	224			**¶97ix2108**
JMA	**IX**	**14**	**18 04**	**16.0**±.4	**43.92N**±.07	**147.08E**±.06	**92**			**¶97ix2153**
ISC	**IX**	**15**	**00 21**	**28**±8.4	**43.4N**±.23	**146.3E**±.90	**51**		**7**	**0-2**
JMA	IX	15	00 21	28.2±.4	43.39N±.02	146.20E±.04	51±3	3.0		**¶97ix2179**
JMA	**IX**	**16**	**02 24**	**10.4**±.4	**43.72N**±.03	**147.17E**±.04	**47**	**3.1**		**¶97ix2315**
JMA	**IX**	**16**	**03 23**	**39.9**±.4	**43.19N**±.04	**146.78E**±.04	**66**±4			**¶97ix2322**
JMA	**IX**	**16**	**07 46**	**23.8**±.6	**43.54N**±.04	**147.60E**±.06	**28**	**3.6**		**¶97ix2348**
JMA	**IX**	**16**	**13 27**	**25.2**±.4	**43.65N**±.03	**147.29E**±.04	**20**	**3.3**		**¶97ix2391**
ISC	**IX**	**16**	**17 09**	**14**±3.7	**43.6N**±.26	**146.1E**±.47	**73**		**6**	**0-2**
JMA	IX	16	17 09	14.0±.5	43.56N±.03	146.13E±.04	73±4			**¶97ix2412**
JMA	**IX**	**16**	**20 24**	**25.6**±.3	**43.28N**±.02	**146.54E**±.03	**50**±3	**2.8**		**¶97ix2425**
JMA	**IX**	**16**	**21 17**	**58.0**±.5	**43.93N**±.08	**147.63E**±.06	**57**	**3.0**		**¶97ix2429**
JMA	**IX**	**16**	**21 47**	**46.7**±.2	**43.64N**±.02	**147.53E**±.02	**43**±5	**3.0**		**¶97ix2432**
JMA	**IX**	**16**	**21 55**	**58.2**±.4	**43.62N**±.04	**147.63E**±.03	**46**	**2.8**		**¶97ix2433**
JMA	**IX**	**17**	**00 01**	**10.2**±.4	**43.54N**±.03	**147.35E**±.04	**43**	**3.6**		**¶97ix2445**
ISC	**IX**	**18**	**03 14**	**36**±4.8	**44.8N**±.26	**146.6E**±.48	**181**		**20**	**2-7**
JMA	IX	18	03 14	36.6±.7	44.67N±.05	146.63E±.08	181			**¶97ix2604**
ISC	**IX**	**18**	**04 47**	**55**±1.3	**48.4N**±.11	**154.3E**±.13	**74**±12	**4.0b**	**29**	**3-148**
MOS	IX	18	04 47	50.8	48.1N	154.6E	33	4.7b		**¶97ix2618**
BJI	IX	18	04 47	52.1	47.64N	154.27E	57	4.2b		
NEIC	IX	18	04 47	54.9	48.43N	154.36E	69	4.6b		
EIDC	IX	18	04 47	56.6	48.4N	154.4E	70	3.8b		
NEIC	Less reliable solution.									
JMA	**IX**	**18**	**11 49**	**16.6**±.4	**43.26N**±.03	**146.47E**±.03	**50**±3	**2.8**		**¶97ix2651**
JMA	**IX**	**18**	**19 48**	**50.9**±.4	**43.15N**±.03	**146.89E**±.04	**63**			**¶97ix2706**
JMA	**IX**	**19**	**05 33**	**55.3**±.3	**43.99N**±.04	**147.93E**±.03	**12**	**3.4**		**¶97ix2752**
ISC	**IX**	**19**	**09 51**	**28**±1.6	**48.9N**±.14	**155.0E**±.22	**81**±16	**3.4b**	**11**	**2-81**
SKHL	IX	19	09 51	28.0	48.8N±.07	155.1E±.07	39±3			**¶97ix2776**
EIDC	IX	19	09 51	41.7	49.0N	154.7E	191	3.0b		
SKHL	K10									
JMA	**IX**	**19**	**19 16**	**27.6**±.2	**43.52N**±.02	**147.25E**±.02	**50**±5	**2.9**		**¶97ix2833**
ISC	**IX**	**19**	**21 13**	**05**±8.4	**50.4N**±.70	**156.9E**±.28	**28**		**5**	**1-3**
KRSC	IX	19	21 13	05.4	50.44N	156.88E	28	3.7b		**¶97ix2849**
ISC	**IX**	**20**	**10 20**	**35**±9.2	**44.6N**±.34	**147.4E**±.87	**188**±31		**32**	**2-7**
JMA	IX	20	10 20	41.3±.5	44.39N±.04	146.79E±.06	161			**¶97ix2928**
JMA	**IX**	**20**	**10 34**	**28.7**±.7	**44.19N**±.06	**147.91E**±.07	**0**	**3.5**		**¶97ix2929**
JMA	**IX**	**20**	**14 00**	**27.7**±.4	**43.63N**±.03	**147.11E**±.04	**41**	**3.1**		**¶97ix2949**
JMA	**IX**	**21**	**02 58**	**17.5**±.5	**43.49N**±.03	**146.55E**±.05	**47**±4	**2.9**		**¶97ix3033**
ISC	**IX**	**21**	**05 25**	**52.8**±.79	**44.52N**±.045	**148.83E**±.088	**95**±7.1	**4.1b**	**120**	**1-151**
MOS	IX	21	05 25	52.1	44.7N	148.7E	69	4.9b		**¶97ix3045**
JMA	IX	21	05 25	52.6±.4	44.48N±.03	149.20E±.04	58	4.4		
SKHL	IX	21	05 25	53.0	44.7N±.10	148.9E±.13	67±5			
EIDC	IX	21	05 25	54.4	44.9N	148.5E	70	3.8b		
NEIC	IX	21	05 25	55.3	44.81N	148.42E	101	4.3b		
BJI	IX	21	05 25	56.4	44.71N	148.56E	116	4.6b		
SKHL	K10									
ISC	**IX**	**21**	**14 23**	**07.0**±.83	**49.1N**±.11	**155.9E**±.16	**42**±5.9*	**3.3b**	**12**	**2-75**
SKHL	IX	21	14 23	07.0	49.1N±.03	156.0E±.05	36±3			**¶97ix3113**
NEIC	IX	21	14 23	07.9	48.61N	156.35E	48			
EIDC	IX	21	14 23	09.2	48.8N	156.3E	43	3.1b		
SKHL	K10									
NEIC	Poor solution.									
ISC	**IX**	**22**	**01 56**	**58.6**±.59	**43.50N**±.029	**147.55E**±.053	**39**±5.2	**4.7b,4.1s**	**227**	**1-154**
JMA	IX	22	01 56	57.6±.4	43.48N±.03	147.51E±.03	16	4.7		**¶97ix3197**
MOS	IX	22	01 56	58.1	43.6N	147.4E	33	5.0b		
NEIC	IX	22	01 56	58.4	43.67N	147.39E	33	4.8b,4.1s		
BJI	IX	22	01 56	58.8	43.79N	147.77E	53	5.1b,4.2s		
SKHL	IX	22	01 57	00.0	43.6N	147.4E	50			
EIDC	IX	22	01 57	02.5	43.8N	147.3E	49	4.3b,3.9s		
MOS	Felt I=II−III MSK at Yuzhno−Kurilsk.									
SKHL	K11 Felt I=II−III MSK at Yuzhno−Kurilsk									
ISC	**IX**	**22**	**06 41**	**54.3**±.63	**46.03N**±.041	**151.99E**±.053	**47**±5.7	**4.9b,4.2s**	**231**	**3-153**
JMA	IX	22	06 41	52.1±.5	45.51N±.08	152.96E±.06	50	4.8		**¶97ix3235**
SKHL	IX	22	06 41	54.0	46.0N±.16	152.3E±.18	56±3			
NEIC	IX	22	06 41	54.5	46.10N	151.90E	49	5.0b,4.2s		
BJI	IX	22	06 41	54.6	46.35N	152.06E	59	5.0b,4.3s		
MOS	IX	22	06 41	55.9	46.3N	151.9E	55	5.1b		
EIDC	IX	22	06 41	56.8	46.3N	151.9E	53	4.2b		
SKHL	K11									
ISC	**IX**	**22**	**08 47**	**24**±3.3	**43.41N**±.096	**146.5E**±.35	**96**±17		**37**	**1-8**
JMA	IX	22	08 47	30.3±.3	43.46N±.01	145.78E±.02	67±2			**¶97ix3249**
ISC	**IX**	**22**	**09 15**	**12.8**±.90	**48.1N**±.13	**155.0E**±.25	**33**	**3.8b**	**10**	**17-76**
EIDC	IX	22	09 15	09.3	48.2N	155.1E	0	3.9b,3.8L		**¶97ix3254**
NEIC	IX	22	09 15	12.6	48.14N	155.06E	33	4.1b		
NEIC	Less reliable solution.									
JMA	**IX**	**23**	**00 56**	**26.3**±.2	**43.05N**±.02	**146.81E**±.02	**60**±4			**¶97ix3347**
JMA	**IX**	**23**	**01 22**	**46.2**±.4	**43.59N**±.03	**147.44E**±.03	**39**	**2.9**		**¶97ix3351**
JMA	**IX**	**23**	**08 24**	**01.0**±.6	**43.58N**±.05	**147.42E**±.05	**17**	**3.2**		**¶97ix3400**
JMA	**IX**	**23**	**09 23**	**00.7**±.2	**43.69N**±.02	**147.01E**±.03	**86**±3			**¶97ix3407**
JMA	**IX**	**23**	**19 27**	**15.2**±.2	**43.63N**±.02	**147.13E**±.03	**79**±4			**¶97ix3465**
ISC	**IX**	**23**	**23 20**	**11**±5.3	**43.9N**±.24	**146.3E**±.57	**83**		**9**	**1-3**
JMA	IX	23	23 20	12.0±.3	43.80N±.02	146.22E±.03	83±3			**¶97ix3495**
JMA	**IX**	**24**	**06 10**	**26.6**±.5	**43.50N**±.03	**146.78E**±.05	**39**	**3.6**		**¶97ix3536**
JMA	**IX**	**24**	**11 25**	**36.2**±.3	**43.14N**±.02	**146.85E**±.03	**65**±4			**¶97ix3573**
JMA	**IX**	**24**	**17 10**	**44.4**±.5	**43.65N**±.03	**147.38E**±.04	**22**	**3.0**		**¶97ix3607**
ISC	**IX**	**24**	**22 01**	**50**±7.0	**43.8N**±.77	**146.4E**±.69	**102**		**5**	**1-3**
JMA	IX	24	22 01	50.6±.2	43.68N±.03	146.37E±.02	102±2			**¶97ix3640**
ISC	Poorly determined									
ISC	**IX**	**25**	**01 15**	**25**±3.8	**43.9N**±.21	**146.2E**±.42	**90**		**11**	**1-4**
JMA	IX	25	01 15	25.3±.4	43.86N±.03	146.26E±.04	90±3			**¶97ix3658**
JMA	**IX**	**25**	**10 39**	**36.6**±.3	**43.01N**±.02	**146.84E**±.03	**61**±4			**¶97ix3723**
ISC	**IX**	**25**	**15 00**	**40**±1.4	**44.3N**±.18	**149.5E**±.20	**100**	**3.6b**	**23**	**3-81**
EIDC	IX	25	15 00	48.1	41.9N	147.7E	264	3.2b		**¶97ix3752**
ISC	**IX**	**26**	**06 54**	**44**±4.6	**45.1N**±.11	**150.8E**±.20	**20**±36	**3.9b**	**36**	**2-80**
EIDC	IX	26	06 54	42.5	45.1N	151.1E	0	3.9b		**¶97ix3900**
SKHL	IX	26	06 54	46.0	45.1N±.16	150.7E±.10	43±6			
JMA	IX	26	06 54	47.5±1.0	45.17N±.08	150.58E±.12	8	4.0		
SKHL	K10									
JMA	**IX**	**26**	**18 48**	**04.7**±.3	**43.11N**±.02	**146.75E**±.03	**61**±4			**¶97ix4114**
JMA	**IX**	**26**	**21 24**	**51.4**±.3	**43.15N**±.02	**146.67E**±.03	**60**±3	**2.6**		**¶97ix4147**
JMA	**IX**	**27**	**02 59**	**04.5**±.5	**43.82N**±.03	**147.46E**±.05	**6**	**3.1**		**¶97ix4230**
JMA	**IX**	**27**	**04 50**	**44.1**±.6	**43.60N**±.04	**147.23E**±.06	**32**	**3.1**		**¶97ix4248**
ISC	**IX**	**27**	**20 15**	**58**±2.5	**43.5N**±.17	**146.0E**±.31	**101**		**11**	**0-3**
JMA	IX	27	20 15	57.7±.3	43.49N±.02	146.00E±.03	101±2			**¶97ix4447**
ISC	**IX**	**28**	**03 01**	**26**±12	**45.1N**±.68	**146.9E**±.92	**249**±44		**28**	**2-8**
JMA	IX	28	03 01	34.8±.3	44.64N±.03	146.32E±.05	216			**¶97ix4522**
JMA	**IX**	**28**	**04 18**	**47.4**±.3	**43.41N**±.03	**147.20E**±.03	**62**			**¶97ix4535**
JMA	**IX**	**28**	**11 56**	**13.2**±.3	**43.26N**±.02	**146.64E**±.03	**49**±3	**2.9**		**¶97ix4640**
ISC	**IX**	**28**	**18 29**	**45**±1.2	**48.7N**±.23	**152.1E**±.62	**33**	**3.4b**	**4**	**35-74**
EIDC	IX	28	18 29	42.3	48.6N	152.1E	0	3.4b		**¶97ix4729**
ISC	Poorly determined									
ISC	**IX**	**28**	**22 32**	**35.3**±.54	**44.90N**±.051	**148.16E**±.088	**162**±5.1	**4.1b**	**109**	**0-152**
MOS	IX	28	22 32	21.3	44.9N	147.9E	33	4.8b		**¶97ix4774**
NEIC	IX	28	22 32	21.3	45.08N	147.78E	33	4.6b		
SKHL	IX	28	22 32	37.0	45.0N	147.9E	150			

EIDC IX 28 22 32 38.3 45.2N 147.9E 173 3.7b
JMA IX 28 22 32 38.7±.4 44.65N±.02 147.91E±.06 175
NEIC Less reliable solution.
SKHL K10
JMA IX 29 00 20 54.1±.3 **43.90N**±.02 **146.32E**±.03 **85**±3 **¶97ix4806**
JMA IX 29 06 01 50.4±.4 **43.90N**±.03 **147.44E**±.03 **40** **3.4** **¶97ix4880**
ISC IX 29 12 07 31±1.0 **45.04N**±.052 **150.47E**±.095 **45**±10 **4.1b**,3.6s **90 2-147**
BJI IX 29 12 07 31.4 45.20N 150.30E 48 4.6b **¶97ix4942**
NEIC IX 29 12 07 31.4 45.24N 150.30E 48 4.4b
JMA IX 29 12 07 31.9±.5 45.03N±.04 150.75E±.06 60 4.6
SKHL IX 29 12 07 32.0 45.2N±.16 150.4E±.13 48±7
EIDC IX 29 12 07 33.4 45.3N 150.3E 48 3.8b,3.6s
SKHL K10
ISC IX 29 21 59 39±6.7 **43.1N**±.33 **146.2E**±.67 **60** **7 0-2**
JMA IX 29 21 59 39.5±.3 43.11N±.02 146.08E±.03 60±2 2.6 **¶97ix5037**
JMA IX 30 03 04 05.9±.6 **44.01N**±.05 **147.88E**±.05 **0** **3.6** **¶97ix5106**
JMA IX 30 08 35 21.7±.1 **43.62N**±.01 **147.19E**±.01 **54**±2 **2.8** **¶97ix5174**
JMA IX 30 08 37 55.5±.3 **43.87N**±.02 **147.41E**±.03 **38** **3.4** **¶97ix5176**
JMA IX 30 14 20 42.1±.4 **43.06N**±.02 **146.07E**±.05 **39**±3 **3.2** **¶97ix5247**
JMA IX 30 16 23 29.4±.3 **43.14N**±.02 **146.86E**±.03 **67** **2.8** **¶97ix5273**
JMA IX 30 21 32 10.9±.4 **43.27N**±.02 **146.79E**±.04 **54** **3.1** **¶97ix5317**
JMA X 02 07 27 39.2±.2 **43.38N**±.01 **147.08E**±.02 **51**±4 **3.2** **¶97x0231**
ISC X 02 07 40 28±7.6 **43.3N**±.23 **146.2E**±.82 **55** **7 0-2**
JMA X 02 07 40 29.4±.1 43.29N±.01 146.10E±.01 55±1 3.8 **¶97x0235**
JMA X 02 15 23 00.4±.4 **43.30N**±.03 **146.87E**±.03 **60** **2.6** **¶97x0303**
ISC X 03 00 32 06±3.8 **43.2N**±.21 **146.1E**±.43 **81** **9 0-2**
JMA X 03 00 32 06.6±.2 43.21N±.01 146.06E±.02 81±2 3.0 **¶97x0363**
JMA X 03 01 33 12.8±.2 **43.53N**±.02 **147.33E**±.02 **31** **2.8** **¶97x0366**
ISC X 03 05 40 36±2.8 **43.6N**±.21 **146.0E**±.35 **103** **8 0-2**
JMA X 03 05 40 36.0±.2 43.51N±.01 146.01E±.02 103±2 **¶97x0403**
JMA X 03 17 23 58.1±.3 **43.38N**±.02 **147.39E**±.03 **42** **3.5** **¶97x0498**
EIDC X 04 01 31 08.3 **44.8N** **146.0E** **0** **4.1b** **¶97x0555**
JMA X 04 04 50 39.7±.6 **43.43N**±.03 **147.62E**±.06 **22** **2.9** **¶97x0583**
JMA X 04 20 07 30.0±.5 **43.38N**±.03 **146.84E**±.05 **33** **3.1** **¶97x0717**
ISC X 04 21 15 58±1.1 **48.24N**±.076 **154.3E**±.12 **69**±9.8 **4.0b** **32 3-122**
BJI X 04 21 15 53.5 48.20N 154.40E 33 4.6b **¶97x0733**
NEIC X 04 21 15 53.5 48.24N 154.37E 33 4.5b
MOS X 04 21 15 54.3 48.1N 154.5E 33 4.3b
SKHL X 04 21 15 56.0 48.1N±.05 154.8E±.05 90±5
EIDC X 04 21 16 02.5 48.3N 154.1E 94 3.7b,3.3s
NEIC Less reliable solution.
SKHL K10
JMA X 05 00 40 50.9±.3 **43.57N**±.03 **147.51E**±.03 **39** **3.2** **¶97x0770**
ISC X 05 03 28 58.9±.47 **45.44N**±.030 **151.08E**±.036 **55**±4.2 **5.6b,4.8s** **558 2-153**
BJI X 05 03 28 59.2 45.64N 150.76E 44 5.7b,4.8s **¶97x0789**
JMA X 05 03 28 59.3±.3 45.60N±.03 151.29E±.04 54 5.3
NEIC X 05 03 29 00.9 45.51N 151.07E 71 5.5b
SKHL X 05 03 29 01.0 45.60N±.10 151.20E±.05 70±5
HRVD X 05 03 29 01.6±.2 45.43N±.02 151.16E±.04 84±2.8
MOS X 05 03 29 01.9 45.8N 151.0E 70 6.2b
EIDC X 05 03 29 02.3 45.6N 150.9E 74 5.0b,4.6s
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c89; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.31±.04; $M_{\theta\theta}$0.19±.06; $M_{\phi\phi}$0.11±.06; $M_{r\theta}$1.17±.04; $M_{r\phi}$1.19±.04; $M_{\theta\phi}$−0.31±.06. Principal Axes: T 1.44,Plg44°,Azm317°; N 0.46, Plg2°,Azm225°; P −1.90,Plg46°,Azm134°. Best double couple: $M_0$1.7×10^{17}Nm, NP1:ϕ_S98°, δ2°,λ−37°. NP2:ϕ_S225°,δ89°,λ−92°.
ISC X 05 08 36 46±3.8 **46.8N**±.20 **149.5E**±.30 **220**±40 **3.5b** **9 13-74**
EIDC X 05 08 36 43.0 46.8N 149.6E 178 3.5b **¶97x0834**
NEIC X 05 08 36 43.7 46.82N 149.53E 200
NEIC Single network solution.
KRSC X 05 15 51 58.5 **49.55N** **156.63E** **43** **3.8b** **¶97x0885**
JMA X 05 16 30 44.8±.3 **43.58N**±.02 **147.30E**±.03 **34** **3.2** **¶97x0889**
ISC X 05 23 49 37.1±.85 **44.29N**±.053 **149.77E**±.076 **33**±6.7 **4.6b,4.2s** **130 2-150**
SKHL X 05 23 49 37.0 44.2N±.05 149.8E±.05 32±1 **¶97x0954**
JMA X 05 23 49 37.2±.5 44.50N±.04 149.94E±.06 60 4.1
BJI X 05 23 49 37.2 44.30N 149.39E 22 4.8b,4.5s
MOS X 05 23 49 38.8 44.5N 149.7E 39 4.9b
NEIC X 05 23 49 39.0 44.46N 149.68E 44 4.8b,4.2s
EIDC X 05 23 49 43.2 44.5N 149.7E 68 3.9b,4.1L
SKHL K10.5
JMA X 06 02 15 27.5±.3 **43.18N**±.02 **146.41E**±.03 **55**±3 **3.2** **¶97x0968**
JMA X 06 07 28 30.0±.3 **43.35N**±.01 **146.81E**±.03 **46**±3 **2.9** **¶97x1015**
ISC X 06 15 34 21±1.4 **44.2N**±.16 **146.8E**±.22 **146**±16 **3.5b** **21 1-69**
JMA X 06 15 34 23.6±.3 44.03N±.02 146.63E±.03 126±2 **¶97x1071**
EIDC X 06 15 34 24.6 45.3N 146.3E 90 3.4b
JMA X 07 08 15 30.3±.2 **44.37N**±.04 **146.45E**±.03 **174**±3 **¶97x1212**
ISC X 08 02 05 39.2±.75 **49.4N**±.14 **153.8E**±.21 **100** **3.6b** **10 22-76**
EIDC X 08 02 05 28.8 49.3N 154.0E 0 3.7b **¶97x1339**
NEIC X 08 02 05 39.2 49.38N 153.83E 100
NEIC Single network solution.
JMA X 08 19 55 36.1±.4 **43.11N**±.02 **146.78E**±.03 **65** **2.9** **¶97x1464**
JMA X 09 02 31 43.9±.3 **44.33N**±.03 **147.78E**±.03 **36** **3.3** **¶97x1508**
JMA X 09 15 33 52.9±.3 **44.09N**±.04 **148.44E**±.03 **25** **3.1** **¶97x1605**
JMA X 09 22 38 42.2±.5 **43.66N**±.03 **147.34E**±.05 **44** **2.8** **¶97x1653**
ISC X 11 04 43 28±6.1 **44.8N**±.48 **146.2E**±.54 **174** **7 1-3**
JMA X 11 04 43 26.4±.5 44.98N±.04 146.27E±.06 174 **¶97x1847**
JMA X 11 04 55 09.7±1.4 **45.03N**±.16 **149.03E**±.15 **59** **3.6** **¶97x1849**
JMA X 12 11 26 30.2±.4 **43.07N**±.03 **146.35E**±.04 **66**±4 **2.8** **¶97x2033**
JMA X 12 12 28 36.2±.2 **43.62N**±.02 **147.22E**±.02 **56** **2.8** **¶97x2041**
ISC X 12 12 42 19±5.6 **43.2N**±.29 **146.3E**±.61 **72** **6 0-2**
JMA X 12 12 42 19.8±.3 43.20N±.02 146.20E±.03 72±3 2.4 **¶97x2043**
JMA X 12 20 12 30.7±.2 **43.76N**±.02 **147.94E**±.02 **71** **2.8** **¶97x2094**
JMA X 13 08 54 15.8±.2 **44.09N**±.02 **147.85E**±.02 **97** **¶97x2193**
JMA X 13 12 49 03.2±.3 **43.70N**±.03 **147.19E**±.03 **65** **2.7** **¶97x2223**
ISC X 13 19 56 35±9.3 **44.0N**±.72 **146.8E**±.91 **134** **6 1-3**
JMA X 13 19 56 35.3±.2 44.01N±.04 146.78E±.03 134±3 **¶97x2275**
JMA X 14 00 31 44.5±.2 **43.16N**±.02 **146.23E**±.02 **53**±2 **2.9** **¶97x2312**
ISC X 14 00 51 34±4.2 **43.1N**±.27 **146.1E**±.47 **75** **7 0-2**
JMA X 14 00 51 34.0±.4 43.11N±.03 146.04E±.03 75±3 2.9 **¶97x2314**
ISC X 14 07 02 32±5.2 **43.7N**±.37 **146.3E**±.73 **108** **7 1-2**
JMA X 14 07 02 32.0±.1 43.69N±.01 146.32E±.01 108±1 **¶97x2352**
ISC Poorly determined
JMA X 14 09 22 59.7±.5 **43.52N**±.03 **146.85E**±.04 **39** **2.8** **¶97x2367**
JMA X 14 12 21 46.6±.3 **43.12N**±.02 **146.79E**±.03 **66**±4 **3.0** **¶97x2402**
JMA X 14 17 20 09.2±.3 **43.04N**±.02 **146.82E**±.03 **66**±4 **2.7** **¶97x2455**
JMA X 14 20 33 11.1±.4 **43.42N**±.03 **146.99E**±.03 **45** **2.9** **¶97x2490**
JMA X 15 10 19 57.8±.3 **44.50N**±.04 **147.51E**±.05 **158** **¶97x2606**
ISC X 15 17 42 09±6.4 **43.2N**±.26 **146.1E**±.64 **48** **7 0-2**
JMA X 15 17 42 10.1±.2 43.18N±.01 145.98E±.02 48±2 3.7 **¶97x2686**
JMA X 15 21 31 22.4±.3 **43.19N**±.02 **147.26E**±.03 **63** **3.0** **¶97x2728**

JMA X 16 14 21 38.2±.3 **43.88N**±.02 **147.95E**±.03 **23** **3.2** **¶97x2851**
JMA X 16 18 30 03.0±.9 **44.75N**±.10 **148.80E**±.11 **60** **3.3** **¶97x2866**
ISC X 16 19 00 06.7±.71 **43.54N**±.049 **146.72E**±.062 **46**±6.2 **4.2b,3.7s** **87 1-145**
MOS X 16 19 00 04.8 43.5N 146.8E 33 5.0b **¶97x2869**
NEIC X 16 19 00 05.3 43.60N 146.62E 33 4.6b
BJI X 16 19 00 06.2 43.85N 147.05E 56 4.5b,3.9s
SKHL X 16 19 00 08.0 43.5N±.10 146.7E±.05 54±1
EIDC X 16 19 00 08.2 43.6N 146.6E 42 3.9b,3.6s
JMA X 16 19 00 09.6±.3 43.45N±.02 146.44E±.03 49±3 4.8
MOS Felt I=V MSK at Yuzhno−Kurilsk, Malokurilsk.
NEIC Felt I=V MSK on Shikotan and at Yuzhno-Kurilsk, Kunashir. Also felt II J in the Nemuro area, Hokkaido.
SKHL K10.5 Felt I=IV MSK at Malokurilskoe; I=II−III MSK at Yuzhno−Kurilsk
JMA Felt I= II J1
JMA X 16 19 04 46.4±.4 **43.47N**±.02 **146.55E**±.04 **50**±4 **3.2** **¶97x2870**
JMA X 16 22 35 32.4±.2 **43.22N**±.01 **146.41E**±.02 **58**±2 **2.8** **¶97x2890**
ISC X 16 22 59 00±8.0 **44.4N**±.63 **147.1E**±.89 **162** **6 1-3**
JMA X 16 22 59 01.4±.4 44.29N±.03 147.01E±.07 162 **¶97x2892**
ISC X 17 08 06 54±6.8 **50.2N**±.57 **157.8E**±.40 **80** **7 1-5**
KRSC X 17 08 06 58.5 50.63N 157.52E 80 3.9b **¶97x2944**
JMA X 18 06 13 17.3±.2 **43.37N**±.01 **147.11E**±.02 **62**±4 **3.4** **¶97x3111**
JMA X 19 10 30 05.6±.5 **43.84N**±.03 **147.47E**±.04 **46** **2.9** **¶97x3329**
JMA X 19 20 40 21.9±.3 **43.03N**±.02 **146.88E**±.03 **62**±4 **3.1** **¶97x3391**
JMA X 19 22 13 54.0±.3 **43.58N**±.02 **147.20E**±.03 **67** **2.7** **¶97x3395**
ISC X 19 23 00 10±1.2 **47.71N**±.096 **152.6E**±.12 **134**±10 **4.2b** **67 4-122**
BJI X 19 23 00 05.3 47.42N 152.34E 81 4.9b **¶97x3401**
NEIC X 19 23 00 06.5 47.72N 152.69E 100 4.7b
MOS X 19 23 00 09.4 47.8N 152.4E 117 4.8b
EIDC X 19 23 00 11.4 47.6N 152.7E 136 3.9b
JMA X 20 06 42 55.0±.3 **43.23N**±.02 **146.67E**±.03 **62**±3 **4.0** **¶97x3456**
ISC X 21 03 53 34±1.7 **43.6N**±.18 **147.1E**±.21 **80**±15 **4.0b** **26 1-83**
JMA X 21 03 53 33.9±.3 43.44N±.02 147.11E±.03 51±5 4.2 **¶97x3596**
EIDC X 21 03 53 51.3 47.8N 146.2E 0 4.1b,4.5L
NEIC X 21 03 53 54.5 47.99N 146.04E 33
NEIC Poor solution.
JMA X 21 09 03 03.9±.5 **43.55N**±.04 **147.52E**±.04 **54** **3.1** **¶97x3628**
ISC X 21 11 42 01.9±.75 **46.6N**±.14 **153.3E**±.20 **33** **3.6b**,2.5s **11 21-77**
EIDC X 21 11 41 58.8 46.6N 153.3E 0 3.6b,2.5s **¶97x3652**
NEIC X 21 11 42 01.7 46.63N 153.29E 33
NEIC Single network solution.
ISC X 22 00 48 57.0±.85 **49.65N**±.069 **156.04E**±.083 **56**±7.2 **4.4b,3.9s** **65 1-146**
NEIC X 22 00 48 56.1 49.73N 155.91E 49 4.6b **¶97x3732**
SKHL X 22 00 48 57.0 49.5N±.14 156.3E±.44 60±1
MOS X 22 00 48 57.1 49.6N 156.2E 55 4.6b
KRSC X 22 00 48 57.1 49.68N 156.14E 26 4.8b
EIDC X 22 00 48 57.9 49.7N 155.8E 48 4.0b,3.9s
SKHL K10.5
MOS Felt I=II MSK at Severo−Kurilsk.
JMA X 22 09 50 36.9±.3 **43.77N**±.02 **147.32E**±.03 **37** **3.5** **¶97x3788**
ISC X 22 09 55 48.8±.27 **44.68N**±.023 **146.27E**±.030 **163**±2.5 **5.5b** **647 1-154**
BJI X 22 09 55 47.7 44.89N 146.18E 153 6.2b **¶97x3790**
NEIC X 22 09 55 47.7 44.72N 146.21E 154 5.5b
SKHL X 22 09 55 48.0 44.5N±.10 146.4E±.10 157±10
EIDC X 22 09 55 48.4 44.8N 145.9E 148 5.0b,4.6s
JMA X 22 09 55 49.4±.2 44.49N±.02 146.46E±.02 158±2 5.7
MOS X 22 09 55 49.5 45.1N 146.2E 154 5.8b
HRVD X 22 09 55 52.5±.3 44.83N±.03 146.40E±.04 161±.9
NEIC Mw5.6(GS), Mw5.6(HRV)
NEIC Felt I=II J1 in the Kushiro area, Hokkaido. Felt in many parts of southeastern Hokkaido and northern Honshu. Also felt II MSK at Yuzhno-Kurilsk, Kunashir.
NEIC Moment tensor solution: s11, scale 10^{17}Nm; M_{rr}−1.06; $M_{\theta\theta}$1.62; $M_{\phi\phi}$−0.56; $M_{r\theta}$−0.11; $M_{r\phi}$−1.74; $M_{\theta\phi}$0.95. Depth 149km; Principal axes: T 2.18,Plg16°,Azm151°; N 0.45,Plg39°, Azm47°; P −2.64,Plg47°,Azm259°. Best double couple: $M_0$2.4×10^{17}Nm; NP1:ϕ_S282°,δ44°, λ−27°. NP2:ϕ_S32°,δ71°,λ−131°.
MOS Felt I=I−II MSK at Yuzhno−Kurilsk.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c68; Mantle waves: s17,c17; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.03±.06; $M_{\theta\theta}$2.26±.08; $M_{\phi\phi}$−1.22±.09; $M_{r\theta}$−0.14±.06; $M_{r\phi}$−1.49±.06; $M_{\theta\phi}$0.91±.07. Principal Axes: T 2.56,Plg9°,Azm163°; N 0.13,Plg47°,Azm63°; P −2.69,Plg41°,Azm261°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S293°,δ55°,λ−26°. NP2:ϕ_S39°,δ69°,λ−142°.
ISC X 22 14 25 08±7.2 **43.2N**±.33 **146.3E**±.78 **76** **6 0-2**
JMA X 22 14 25 07.9±.3 43.22N±.02 146.33E±.03 76±3 2.5 **¶97x3832**
JMA X 22 22 46 39.3±.2 **43.55N**±.02 **147.23E**±.02 **47** **2.9** **¶97x3892**
JMA X 23 06 00 36.0±.5 **43.22N**±.03 **146.48E**±.05 **57** **2.8** **¶97x3933**
ISC X 23 09 50 12±2.5 **43.5N**±.18 **146.0E**±.31 **95** **9 0-2**
JMA X 23 09 50 12.6±.2 43.45N±.01 146.00E±.02 95±2 **¶97x3962**
JMA X 23 13 03 53.0±.3 **43.45N**±.02 **147.09E**±.03 **59** **3.0** **¶97x4001**
JMA X 23 13 58 00.8±.6 **43.26N**±.04 **147.46E**±.04 **65** **2.6** **¶97x4007**
ISC X 23 14 07 45±4.2 **43.3N**±.22 **146.2E**±.47 **82** **8 0-2**
JMA X 23 14 07 44.9±.3 43.25N±.02 146.25E±.03 82±3 2.6 **¶97x4011**
JMA X 23 18 53 29.1±.4 **43.62N**±.03 **147.39E**±.04 **54** **2.9** **¶97x4047**
JMA X 23 22 30 36.6±.3 **43.62N**±.02 **147.86E**±.03 **23** **2.9** **¶97x4075**
ISC X 24 04 08 48±1.2 **44.7N**±.37 **148.9E**±.35 **57** **3.6b** **19 3-81**
JMA X 24 04 08 51.2±1.1 44.72N±.10 148.72E±.13 57 3.5 **¶97x4107**
EIDC X 24 04 09 14.0 44.5N 158.6E 0 3.7b,4.7L
ISC X 24 08 03 40±1.2 **43.33N**±.096 **147.3E**±.12 **61**±9.2 **4.0b** **32 1-83**
SKHL X 24 08 03 40.0 43.2N±.09 147.3E±.10 54±4 **¶97x4123**
NEIC X 24 08 03 40.2 43.35N 147.25E 62 4.7b
JMA X 24 08 03 40.3±.2 43.17N±.02 147.21E±.02 63±4 3.9
EIDC X 24 08 03 42.5 43.4N 147.3E 63 3.6b
SKHL K10
NEIC Less reliable solution.
JMA X 24 08 32 45.7±.4 **43.69N**±.03 **147.64E**±.04 **6** **3.1** **¶97x4127**
JMA X 24 17 30 12.1±.4 **43.79N**±.02 **147.22E**±.04 **69** **2.7** **¶97x4202**
EIDC X 25 16 16 54.3 **44.3N** **147.4E** **191** **3.0b** **¶97x4346**
JMA X 25 21 28 56.1±.2 **43.21N**±.03 **146.68E**±.02 **85**±3 **2.5** **¶97x4376**
ISC X 25 23 01 06.3±.79 **43.73N**±.055 **147.43E**±.068 **41**±6.1 **4.5b,4.5s** **116 1-153**
JMA X 25 23 00 58.1±.3 43.51N±.03 147.91E±.03 4 4.3 **¶97x4382**
SKHL X 25 23 01 05.0 43.6N±.02 147.6E±.03 47±7
BJI X 25 23 01 05.3 43.70N 147.30E 33 4.8b,4.7s
NEIC X 25 23 01 05.3 43.76N 147.29E 33 4.8b
EIDC X 25 23 01 05.6 43.8N 147.3E 21 4.1b,4.0L
MOS X 25 23 01 07.9 43.8N 147.3E 54 4.9b
SKHL K10.5
JMA X 25 23 17 53.3±.8 **43.70N**±.05 **147.69E**±.06 **10** **3.1** **¶97x4385**
JMA X 26 08 24 40.4±.4 **43.71N**±.03 **147.30E**±.04 **58** **2.9** **¶97x4436**
JMA X 26 09 47 08.3±.3 **43.67N**±.03 **147.55E**±.03 **38** **2.9** **¶97x4445**
JMA X 26 17 39 52.9±.3 **43.22N**±.02 **146.44E**±.03 **59**±3 **2.8** **¶97x4503**
ISC X 26 18 15 10±3.0 **44.1N**±.35 **146.1E**±.38 **151** **8 1-2**
JMA X 26 18 15 10.3±.4 44.09N±.03 146.03E±.03 151±4 **¶97x4510**

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**26 19 14 58**±4.0	**50.7N**±.45	**157.3E**±.52	**80**		**6**	**1-3**
KRSC	X	26 19 14 58.5	50.82N	157.19E	80	3.7b		¶97x4514
JMA	**X**	**27 17 20 04.0**±.3	**43.91N**±.03	**147.87E**±.03	**110**			¶97x4637
ISC	**X**	**27 19 11 51**±9.4	**43.1N**±.31	**146.2E**±.91	**45**		**6**	**0-2**
JMA	X	27 19 11 52.1±.4	43.11N±.02	146.07E±.04	45±3	3.1		¶97x4646
JMA	**X**	**27 19 58 35.9**±.3	**43.69N**±.02	**146.66E**±.03	**71**±4	**3.3**		¶97x4653
JMA	**X**	**28 04 51 12.5**±.2	**44.10N**±.04	**147.22E**±.03	**140**±3			¶97x4711
JMA	**X**	**28 10 41 33.7**±.2	**43.72N**±.01	**147.04E**±.02	**62**±3	**2.7**		¶97x4744
JMA	**X**	**28 15 03 28.4**±.2	**43.14N**±.01	**146.49E**±.02	**51**±2	**3.8**		¶97x4777
JMA	**X**	**28 16 51 38.3**±.3	**43.61N**±.02	**147.10E**±.03	**41**	**3.0**		¶97x4790
JMA	**X**	**28 20 10 53.6**±.3	**43.65N**±.03	**147.17E**±.03	**62**	**2.6**		¶97x4809
JMA	**X**	**29 07 07 09.0**±.2	**43.29N**±.03	**146.15E**±.03	**82**	**2.0**		¶97x4872
JMA	**X**	**29 10 58 34.9**±.4	**43.17N**±.03	**146.77E**±.03	**63**	**2.4**		¶97x4896
ISC	**X**	**29 11 51 19**±1.0	**47.6N**±.19	**152.8E**±.26	**144**	**3.5b**	**6**	**21-77**
EIDC	X	29 11 51 20.7	47.6N	152.8E	144	3.4b		¶97x4901
ISC	**X**	**29 16 06 37.2**±.58	**45.02N**±.069	**147.4E**±.11	**168**±5.3	**4.0b**	**49**	**0-82**
SKHL	X	29 16 06 37.0	44.6N±.22	147.8E±.33	150±30			¶97x4928
JMA	X	29 16 06 39.9±.6	44.55N±.04	147.49E±.07	166			
NEIC	X	29 16 06 41.3	45.15N	147.23E	201	4.8b		
MOS	X	29 16 06 41.5	45.2N	147.2E	199	4.7b		
EIDC	X	29 16 06 42.4	45.1N	147.2E	199	3.6b		
BJI	X	29 16 06 42.8	45.20N	147.20E	201	4.3b		
SKHL	K10							
NEIC	Less reliable solution.							
JMA	**X**	**29 21 17 53.4**±1.0	**44.54N**±.07	**149.47E**±.12	**59**	**3.5**		¶97x4952
JMA	**X**	**29 22 55 39.7**±.5	**43.63N**±.04	**147.77E**±.04	**34**	**2.9**		¶97x4960
JMA	**X**	**30 03 14 21.6**±.3	**43.29N**±.02	**147.25E**±.03	**56**±5	**3.3**		¶97x4982
JMA	**X**	**30 10 08 31.0**±.3	**43.47N**±.02	**147.26E**±.02	**46**	**3.3**		¶97x5020
KRSC	**X**	**31 13 08 26.9**	**49.85N**	**156.84E**	**37**	**3.8b**		¶97x5189
JMA	**X**	**31 16 06 32.1**±.3	**43.90N**±.02	**147.42E**±.03	**47**	**3.3**		¶97x5201
JMA	**X**	**31 18 07 15.7**±.3	**44.13N**±.03	**147.76E**±.03	**68**	**2.9**		¶97x5213
ISC	**X**	**31 23 34 30**±1.6	**43.7N**±.13	**147.5E**±.19	**61**±13	**4.2b**	**24**	**1-70**
JMA	X	31 23 34 27.7±.3	43.47N±.02	147.56E±.03	20	3.7		¶97x5239
SKHL	X	31 23 34 28.0	43.5N±.02	147.6E±.03	50±5			
EIDC	X	31 23 34 33.4	45.3N	147.0E	0	4.0b,3.8L		
SKHL	K10							
JMA	**XI**	**01 03 23 25.5**±.2	**43.41N**±.01	**146.45E**±.03	**57**±2	**3.3**		¶97xi0022
ISC	**XI**	**01 16 08 58**±1.1	**47.24N**±.097	**152.2E**±.14	**142**±9.0	**3.7b**	**45**	**4-86**
SKHL	XI	01 16 08 57.0	47.0N±.16	152.5E±.17	140±15			¶97xi0101
MOS	XI	01 16 08 59.0	47.3N	152.3E	144	4.2b		
BJI	XI	01 16 08 59.4	47.30N	152.00E	150	4.5b		
NEIC	XI	01 16 08 59.4	47.35N	151.97E	150	4.1b		
EIDC	XI	01 16 09 00.7	47.3N	151.9E	154	3.5b		
SKHL	K10							
NEIC	Less reliable solution.							
JMA	**XI**	**02 00 58 53.2**±.3	**43.50N**±.02	**147.06E**±.02	**53**	**3.1**		¶97xi0173
JMA	**XI**	**02 01 39 15.1**±.4	**43.22N**±.05	**146.04E**±.04	**85**			¶97xi0181
JMA	**XI**	**02 22 56 46.8**±.4	**44.27N**±.04	**147.85E**±.05	**117**			¶97xi0351
JMA	**XI**	**03 06 14 06.3**±.3	**43.55N**±.01	**146.45E**±.03	**63**±4	**2.8**		¶97xi0419
ISC	**XI**	**03 09 57 53**±1.4	**43.3N**±.26	**147.0E**±.13	**48**	**3.9b**	**12**	**1-83**
JMA	XI	03 09 57 58.5±.6	43.36N±.03	146.48E±.06	48	3.4		¶97xi0449
EIDC	XI	03 09 58 07.5	44.0N	145.6E	180	3.5b		
JMA	**XI**	**03 20 10 04.5**±.3	**43.82N**±.02	**146.74E**±.03	**79**	**2.8**		¶97xi0513
ISC	**XI**	**04 00 18 32**±1.7	**50.6N**±.30	**154.0E**±.41	**33**	**3.8b**	**5**	**23-75**
EIDC	XI	04 00 18 28.4	50.5N	154.1E	0	3.8b		¶97xi0540
ISC	**XI**	**04 04 42 02**±1.4	**44.6N**±.12	**147.1E**±.21	**132**±13	**3.5b**	**19**	**2-82**
JMA	XI	04 04 42 03.9±.4	44.56N±.03	147.00E±.05	121±5	3.7		¶97xi0578
EIDC	XI	04 04 42 04.9	44.8N	146.8E	145	3.3b		
JMA	**XI**	**04 05 43 30.2**±.4	**43.11N**±.04	**146.85E**±.03	**68**	**2.8**		¶97xi0582
JMA	**XI**	**04 16 43 13.0**±.6	**43.29N**±.08	**147.76E**±.05	**61**	**2.8**		¶97xi0663
JMA	**XI**	**04 22 11 12.2**±.3	**43.63N**±.02	**147.29E**±.03	**50**	**3.0**		¶97xi0695
JMA	**XI**	**04 22 15 35.6**±.3	**43.11N**±.01	**146.38E**±.03	**47**±3	**2.8**		¶97xi0696
JMA	**XI**	**05 00 28 21.4**±.3	**43.19N**±.02	**146.46E**±.03	**53**±3	**3.1**		¶97xi0711
JMA	**XI**	**05 06 52 10.4**±.3	**43.40N**±.02	**147.04E**±.03	**58**	**3.3**		¶97xi0748
ISC	**XI**	**05 10 36 36**±5.0	**43.2N**±.51	**146.2E**±.58	**79**		**4**	**0-2**
JMA	XI	05 10 36 35.8±.2	43.23N±.02	146.18E±.03	79±2	2.2		¶97xi0775
ISC	Poorly determined							
JMA	**XI**	**05 15 45 33.9**±1.1	**44.74N**±.12	**149.34E**±.12	**57**	**3.4**		¶97xi0825
JMA	**XI**	**05 17 49 19.0**±.3	**43.62N**±.02	**147.21E**±.03	**47**	**2.9**		¶97xi0836
ISC	**XI**	**05 19 22 00**±4.8	**43.1N**±.28	**146.2E**±.50	**77**		**9**	**0-2**
JMA	XI	05 19 21 59.8±.3	43.08N±.02	146.24E±.03	77±2	2.7		¶97xi0849
ISC	**XI**	**06 01 10 57**±2.4	**44.1N**±.16	**149.0E**±.29	**98**±23	**3.8b**	**28**	**2-82**
EIDC	XI	06 01 10 46.5	44.0N	148.8E	0	3.8b		¶97xi0894
NEIC	XI	06 01 10 50.1	44.09N	148.79E	33			
JMA	XI	06 01 10 56.5±.6	44.44N±.05	149.10E±.07	59	3.8		
NEIC	Poor solution.							
JMA	**XI**	**06 09 54 09.8**±.4	**44.38N**±.04	**147.63E**±.04	**103**			¶97xi0955
JMA	**XI**	**06 13 00 54.1**±.2	**43.14N**±.01	**146.39E**±.02	**53**±3	**3.1**		¶97xi0981
JMA	**XI**	**06 14 13 49.9**±.3	**43.78N**±.03	**147.96E**±.03	**17**	**3.1**		¶97xi0989
ISC	**XI**	**06 22 46 02.6**±.70	**46.90N**±.039	**152.34E**±.050	**106**±5.9	**4.8b**	**234**	**4-150**
BJI	XI	06 22 46 02.0	47.16N	152.39E	112	5.0b		¶97xi1045
MOS	XI	06 22 46 02.9	47.0N	152.2E	110	5.1b		
NEIC	XI	06 22 46 02.9	46.93N	152.34E	109	4.9b		
SKHL	XI	06 22 46 03.0	46.8N±.25	152.5E±.28	105±15			
EIDC	XI	06 22 46 04.6	47.0N	152.3E	112	4.3b		
SKHL	K10.5							
ISC	**XI**	**07 05 20 45**±1.7	**44.27N**±.070	**149.6E**±.16	**38**±14	**4.0b**,3.2s	**60**	**2-87**
NEIC	XI	07 05 20 45.0	44.58N	149.16E	33	4.8b		¶97xi1079
MOS	XI	07 05 20 45.5	44.4N	149.5E	39	5.0b		
SKHL	XI	07 05 20 47.0	44.4N±.28	149.4E±.27	58±6			
JMA	XI	07 05 20 48.4±.5	44.47N±.03	149.37E±.06	59	3.9		
EIDC	XI	07 05 20 55.2	44.7N	148.9E	115	3.6b,3.2s		
NEIC	Less reliable solution.							
SKHL	K10							
ISC	**XI**	**07 11 39 43**±5.2	**43.2N**±.51	**146.1E**±.59	**79**		**5**	**0-2**
JMA	XI	07 11 39 43.3±.3	43.14N±.03	146.03E±.04	79	2.2		¶97xi1119
ISC	Poorly determined							
JMA	**XI**	**08 06 45 13.1**±.3	**43.29N**±.02	**146.46E**±.02	**62**±3	**2.6**		¶97xi1226
JMA	**XI**	**08 08 48 13.9**±.3	**44.26N**±.03	**147.82E**±.04	**91**			¶97xi1238
JMA	**XI**	**08 09 00 26.5**±.3	**43.12N**±.02	**146.67E**±.03	**62**±4	**2.6**		¶97xi1239
ISC	**XI**	**08 12 14 37.8**±.72	**48.20N**±.034	**154.38E**±.041	**35**±6.2	**5.2b**	**290**	**3-156**
BJI	XI	08 12 14 36.7	48.32N	154.80E	50	5.1b,5.5s		¶97xi1278
NEIC	XI	08 12 14 37.4	48.22N	154.38E	33	5.3b		
MOS	XI	08 12 14 37.5	48.1N	154.5E	40	5.4b		
SKHL	XI	08 12 14 39.0	48.0N±.11	154.8E±.18	59±4			
EIDC	XI	08 12 14 44.3	48.3N	154.3E	79	4.6b		
SKHL	K12							
ISC	**XI**	**08 15 09 36**±5.5	**43.0N**±.28	**146.7E**±.58	**67**±29	3.5b	**10**	**1-70**
JMA	XI	08 15 09 39.4±.2	43.09N±.01	146.37E±.02	66±2	3.9		¶97xi1299
ISC	**XI**	**08 16 52 59**±1.1	**48.0N**±.21	**152.8E**±.35	**250**	**3.3b**	**6**	**41-77**
EIDC	XI	08 16 53 03.0	48.0N	152.8E	274	3.1b		¶97xi1320
ISC	**XI**	**08 23 04 05**±2.0	**45.45N**±.078	**150.5E**±.21	**67**±19	**3.6b**	**34**	**2-80**
SKHL	XI	08 23 04 05.0	45.4N±.16	150.7E±.24	66±5			¶97xi1359
JMA	XI	08 23 04 05.9±.7	45.56N±.07	150.53E±.10	56	3.9		
NEIC	XI	08 23 04 09.2	45.72N	150.28E	100			
EIDC	XI	08 23 04 10.1	45.7N	150.4E	91	3.4b,2.6s		
SKHL	K10							
NEIC	Single network solution.							
JMA	**XI**	**09 00 49 25.5**±.3	**43.73N**±.02	**147.07E**±.03	**58**±4	**3.2**		¶97xi1372
ISC	**XI**	**09 18 53 21**±4.9	**43.8N**±.36	**146.5E**±.53	**116**		**8**	**1-3**
JMA	XI	09 18 53 21.8±.3	43.71N±.03	146.44E±.03	116±3			¶97xi1492
JMA	**XI**	**09 19 04 23.4**±.3	**43.28N**±.02	**146.89E**±.02	**43**±4	**3.7**		¶97xi1496
ISC	**XI**	**10 15 39 32**±10	**44.4N**±.29	**146.5E**±.89	**142**±57		**14**	**1-3**
JMA	XI	10 15 39 34.5±.3	44.24N±.02	146.28E±.04	134±3			¶97xi1630
ISC	**XI**	**10 18 59 36**±4.8	**43.2N**±.27	**146.0E**±.50	**65**		**8**	**0-2**
JMA	XI	10 18 59 36.6±.2	43.14N±.01	146.03E±.02	65±2	2.3		¶97xi1658
JMA	**XI**	**10 21 55 06.7**±.5	**43.23N**±.05	**146.28E**±.04	**61**	**2.4**		¶97xi1680
JMA	**XI**	**11 01 59 10.3**±.3	**43.49N**±.02	**147.15E**±.02	**41**	**3.7**		¶97xi1710
JMA	**XI**	**11 05 38 17.3**±.2	**43.85N**±.01	**147.10E**±.02	**75**±4	**2.8**		¶97xi1743
JMA	**XI**	**11 09 21 29.3**±.2	**43.45N**±.01	**147.06E**±.02	**61**±3	**2.8**		¶97xi1764
JMA	**XI**	**11 11 54 39.8**±.3	**43.71N**±.02	**147.56E**±.03	**20**	**3.1**		¶97xi1779
ISC	**XI**	**11 19 59 47.7**±.50	**43.52N**±.038	**146.96E**±.043	**71**±4.0	**4.9b**	**268**	**1-152**
EIDC	XI	11 19 59 46.8	43.7N	146.8E	44	4.6b,3.9s		¶97xi1863
BJI	XI	11 19 59 47.3	43.62N	146.82E	67	4.9b,4.0s		
SKHL	XI	11 19 59 48.0	43.5N±.14	146.9E±.26	82±5			
NEIC	XI	11 19 59 49.2	43.55N	146.95E	84	5.1b		
JMA	XI	11 19 59 49.3±.3	43.40N±.02	146.85E±.03	64±4	4.8		
MOS	XI	11 19 59 50.0	43.8N	146.9E	82	5.3b		
SKHL	Felt I=IV MSK at Malokurilsk; I=II–III at Yuzhno-Kurilsk							
NEIC	Felt I=IV MM on Shikotan and III MM at Yuzhno-Kurilsk, Kunashir.							
JMA	Felt I=II J1							
JMA	**XI**	**11 20 38 04.4**±.4	**43.89N**±.02	**146.53E**±.04	**79**±4	**3.1**		¶97xi1867
JMA	**XI**	**12 00 08 20.8**±.2	**43.88N**±.02	**147.82E**±.02	**98**			¶97xi1902
ISC	**XI**	**12 10 19 24**±1.2	**45.7N**±.21	**150.6E**±.43	**43**	**3.6b**	**5**	**38-80**
EIDC	XI	12 10 19 26.0	45.6N	150.5E	43	3.4b		¶97xi1967
ISC	**XI**	**13 03 21 34.7**±.48	**43.42N**±.038	**146.25E**±.042	**74**±4.0	**4.7b**	**211**	**0-153**
NEIC	XI	13 03 21 33.1	43.45N	146.23E	60	5.0b		¶97xi2073
BJI	XI	13 03 21 33.3	43.75N	146.25E	61	5.0b,4.1s		
MOS	XI	13 03 21 33.5	43.3N	146.3E	70	5.4b		
SKHL	XI	13 03 21 36.0	43.5N±.13	146.1E±.20	75±2			
JMA	XI	13 03 21 36.5±.2	43.36N±.01	146.21E±.02	60±2	4.8		
EIDC	XI	13 03 21 38.2	43.5N	146.1E	92	4.4b,3.6s		
NEIC	Felt I=V MM.							
NEIC	Felt I=III J1 in the Kushiro area, Hokkaido and II J1 in other parts of eastern Hokkaido. Also felt II MM at Yuzhno-Kurilsk, Kunashir.							
SKHL	K11 Felt I=III MSK at Malokurilsk; I=II–III at Juzhno-Kurilsk							
JMA	**XI**	**13 08 36 33.0**±.4	**43.72N**±.04	**147.09E**±.04	**61**			¶97xi2103
JMA	**XI**	**13 12 18 03.7**±.3	**43.21N**±.02	**146.50E**±.03	**53**±3	**3.0**		¶97xi2131
JMA	**XI**	**13 13 37 52.4**±.3	**43.65N**±.03	**147.05E**±.03	**92**			¶97xi2144
JMA	**XI**	**13 17 41 55.6**±.4	**43.65N**±.03	**147.25E**±.04	**60**	**2.7**		¶97xi2174
JMA	**XI**	**13 21 04 31.2**±.1	**43.76N**±.01	**146.82E**±.01	**100**±2			¶97xi2192
ISC	**XI**	**14 01 58 56**±9.5	**43.1N**±.36	**146.3E**±.92	**50**		**6**	**0-2**
JMA	XI	14 01 58 56.3±.2	43.14N±.01	146.20E±.02	50±2	2.9		¶97xi2222
KRSC	**XI**	**14 02 25 02.2**	**50.24N**	**157.07E**	**0**	**3.9b**		¶97xi2225
ISC	**XI**	**14 09 57 57**±4.3	**43.4N**±.28	**146.2E**±.54	**86**		**7**	**0-2**
JMA	XI	14 09 57 56.8±.2	43.44N±.01	146.21E±.02	86±2	2.5		¶97xi2272
ISC	**XI**	**14 15 37 23.4**±.65	**45.64N**±.044	**150.68E**±.075	**106**±5.5	**4.6b**	**156**	**2-150**
BJI	XI	14 15 37 24.8	45.92N	150.42E	110	4.7b		¶97xi2311
SKHL	XI	14 15 37 25.0	45.6N±.11	150.7E±.12	123±5			
JMA	XI	14 15 37 25.1±.4	45.72N±.03	150.64E±.05	59	4.4		
MOS	XI	14 15 37 25.3	45.9N	150.5E	115	4.9b		
NEIC	XI	14 15 37 25.6	45.86N	150.48E	117	4.8b		
EIDC	XI	14 15 37 29.7	45.9N	150.3E	143	4.1b		
SKHL	K11							
ISC	**XI**	**14 20 07 50**±8.3	**43.2N**±.24	**146.3E**±.83	**50**		**8**	**0-2**
JMA	XI	14 20 07 50.5±.3	43.11N±.01	146.27E±.02	50±3	3.6		¶97xi2346
JMA	**XI**	**14 20 54 29.8**±.3	**44.41N**±.06	**147.96E**±.06	**167**			¶97xi2348
JMA	**XI**	**15 00 11 04.2**±.2	**43.29N**±.02	**146.67E**±.02	**48**±3	**2.9**		¶97xi2387
JMA	**XI**	**15 06 36 53.3**±.3	**44.07N**±.02	**146.92E**±.03	**88**±3	**3.2**		¶97xi2433
JMA	**XI**	**15 13 53 58.0**±.3	**43.56N**±.02	**147.57E**±.03	**26**	**3.3**		¶97xi2484
ISC	**XI**	**15 22 50 03**±6.4	**43.5N**±.30	**146.3E**±.85	**88**		**7**	**0-2**
JMA	XI	15 22 50 03.2±.3	43.53N±.02	146.22E±.03	88±3			¶97xi2556
ISC	Poorly determined							
ISC	**XI**	**16 02 13 14**±7.9	**43.3N**±.21	**146.6E**±.84	**78**		**9**	**1-2**
JMA	XI	16 02 13 16.0±.2	43.35N±.01	146.36E±.02	78±2	3.4		¶97xi2582
JMA	**XI**	**16 10 24 41.3**±.3	**43.47N**±.01	**146.58E**±.03	**50**±3	**3.3**		¶97xi2633
JMA	**XI**	**16 10 57 10.3**±.9	**44.79N**±.11	**149.31E**±.11	**57**	**3.2**		¶97xi2637
JMA	**XI**	**16 15 40 55.2**±.3	**43.55N**±.02	**147.79E**±.03	**33**	**2.9**		¶97xi2663
ISC	**XI**	**16 23 40 22**±1.2	**47.6N**±.19	**154.0E**±.31	**33**	**3.8b**	**8**	**27-78**
EIDC	XI	16 23 40 18.9	47.6N	153.9E	0	3.9b,3.8L		¶97xi2709
JMA	**XI**	**17 03 41 04.1**±.4	**43.17N**±.02	**146.39E**±.04	**59**±4	**2.8**		¶97xi2732
ISC	**XI**	**17 09 09 29**±9.6	**44.0N**±.74	**146.9E**±.93	**133**		**6**	**1-3**
JMA	XI	17 09 09 29.8±.3	43.94N±.04	146.82E±.03	133±3			¶97xi2768
JMA	**XI**	**17 15 12 02.3**±.3	**43.15N**±.02	**146.28E**±.03	**50**±3	**3.1**		¶97xi2818
JMA	**XI**	**17 19 56 48.9**±.3	**43.44N**±.03	**147.13E**±.03	**63**			¶97xi2854
ISC	**XI**	**17 23 29 31**±4.7	**50.4N**±.43	**157.3E**±.29	**60**		**9**	**1-5**
KRSC	XI	17 23 29 33.0	50.62N	157.12E	60	4.4b		¶97xi2876
JMA	**XI**	**18 07 23 31.6**±.3	**43.49N**±.02	**146.57E**±.03	**54**±4	**3.1**		¶97xi2929
ISC	**XI**	**18 16 34 21**±1.8	**47.7N**±.15	**152.8E**±.24	**130**±18	**3.9b**	**18**	**4-77**
NEIC	XI	18 16 34 17.8	47.71N	152.81E	100	4.5b		¶97xi3008
EIDC	XI	18 16 34 24.4	47.7N	152.7E	144	3.6b		
MOS	XI	18 16 34 32.9	48.9N	153.2E	186	4.5b		
NEIC	Less reliable solution.							
JMA	**XI**	**18 20 47 07.5**±.3	**43.18N**±.02	**146.82E**±.03	**57**±5	**3.4**		¶97xi3059
JMA	**XI**	**20 02 12 33.4**±.4	**43.74N**±.04	**147.29E**±.04	**63**	**2.7**		¶97xi3371
ISC	**XI**	**20 03 51 08**±2.8	**44.4N**±.12	**149.3E**±.29	**88**±27	**3.5b**	**35**	**3-81**
NEIC	XI	20 03 51 05.4	45.01N	149.29E	33			¶97xi3387
JMA	XI	20 03 51 08.1±.8	44.67N±.04	149.38E±.09	59	3.7		
EIDC	XI	20 03 51 13.8	45.0N	149.1E	95	3.4b		
NEIC	Poor solution.							
JMA	**XI**	**20 09 24 17.8**±.7	**45.48N**±.07	**150.61E**±.09	**59**	**3.4**		¶97xi3432
ISC	**XI**	**21 16 01 58.6**±.85	**47.57N**±.056	**152.00E**±.073	**51**±7.9	**4.3b,4.1s**	**68**	**4-155**
BJI	XI	21 16 01 55.2	47.50N	152.43E	38	4.7b,4.4s		¶97xi3683
NEIC	XI	21 16 01 56.4	47.57N	152.07E	33	4.6b		
MOS	XI	21 16 01 56.5	47.5N	152.1E	33	4.9b,4.1s		
EIDC	XI	21 16 02 00.1	47.6N	152.1E	49	4.0b,4.0s		
SKHL	XI	21 16 02 01.0	47.7N±.22	151.9E±.21	70			
SKHL	K10							

JMA XI 21 21 56 32.9±.2 **43.54N**±.01 **147.27E**±.02 **52**±4 **2.9** **¶97xi3749**
ISC XI 22 11 25 09±1.2 **44.36N**±.076 **148.0E**±.14 **64**±10 **4.0b** **36 1-82**
BJI XI 22 11 25 04.7 44.38N 148.03E 31 4.7b **¶97xi3860**
MOS XI 22 11 25 05.3 44.3N 148.2E 33 4.8b
NEIC XI 22 11 25 05.8 44.32N 148.09E 33 4.7b
EIDC XI 22 11 25 09.3 44.4N 148.1E 45 3.7b,3.6L
SKHL XI 22 11 25 10.0 44.4N±.09 148.0E±.10 70±5
JMA XI 22 11 25 10.9±.4 44.00N±.03 147.98E±.04 51 4.2
NEIC Less reliable solution.
SKHL K10.5
JMA XI 23 14 56 36.4±.3 **43.28N**±.02 **146.59E**±.03 **55**±3 **3.0** **¶97xi4136**
JMA XI 23 21 38 22.3±.4 **44.06N**±.08 **148.21E**±.05 **8** **3.0** **¶97xi4202**
ISC XI 23 22 39 13±1.8 **43.8N**±.11 **147.6E**±.20 **47**±16 **3.7b** **21 1-65**
EIDC XI 23 22 39 10.2 44.0N 147.4E 0 3.9b,4.2L **¶97xi4214**
JMA XI 23 22 39 15.4±.3 43.60N±.02 147.32E±.03 34 4.0
SKHL XI 23 22 39 16.0 44.0N±.02 147.3E±.06 32±1
SKHL K10
ISC XI 23 23 13 03±2.3 **44.6N**±.37 **149.5E**±.60 **33** **3.7b** **4 12-70**
EIDC XI 23 23 13 00.8 44.7N 149.5E 0 3.8b,4.1L **¶97xi4220**
ISC Poorly determined
JMA XI 24 02 05 47.6±.4 **43.61N**±.05 **147.13E**±.05 **52** **3.0** **¶97xi4245**
JMA XI 24 10 07 43.1±.2 **43.51N**±.02 **147.28E**±.02 **40**±4 **2.8** **¶97xi4296**
JMA XI 24 10 14 45.6±.2 **43.46N**±.02 **146.89E**±.03 **65**±3 **2.9** **¶97xi4297**
JMA XI 24 18 14 42.5±.2 **44.01N**±.02 **146.53E**±.02 **82**±2 **2.4** **¶97xi4358**
ISC XI 24 23 41 50.4±.50 **43.79N**±.062 **146.14E**±.078 **107**±4.4 **4.1b** **51 0-83**
SKHL XI 24 23 41 50.0 43.7N±.11 146.3E±.12 94±2 **¶97xi4409**
NEIC XI 24 23 41 50.1 43.84N 145.99E 105 4.2b
BJI XI 24 23 41 50.8 43.74N 146.05E 112 4.5b
JMA XI 24 23 41 51.5±.2 43.67N±.01 146.23E±.02 90±2 4.2
EIDC XI 24 23 41 53.8 43.9N 145.9E 125 3.7b
SKHL K10 Felt I=IV MSK at Malokurilskoe; I=II at Juzhno-Kurilsk
NEIC Felt I=I J in the Nemuro area.
JMA XI 25 13 38 15.3±.3 **43.64N**±.02 **147.19E**±.03 **43** **2.8** **¶97xi4525**
ISC XI 25 17 01 34.2±.14 **46.45N**±.028 **153.35E**±.029 **19** **5.5b,4.9s** **504 4-154**
SKHL XI 25 17 01 33.0 46.4N±.10 153.5E±.10 19±3 **¶97xi4551**
BJI XI 25 17 01 35.4 46.79N 153.13E 27 5.4b,5.1s
NEIC XI 25 17 01 36.2 46.53N 153.38E 33 5.5b,4.8s
EIDC XI 25 17 01 36.9 46.6N 153.2E 29 5.1b,4.9s
MOS XI 25 17 01 38.1 46.8N 153.4E 39 5.8b,5.0s
JMA XI 25 18 15 27.0±.3 **43.42N**±.02 **146.90E**±.03 **49** **3.2** **¶97xi4558**
ISC XI 25 21 02 22±2.8 **43.2N**±.19 **147.1E**±.28 **48** 3.3b **10 1-70**
JMA XI 25 21 02 22.9±.3 43.12N±.02 146.88E±.03 48 3.1 **¶97xi4578**
JMA XI 26 01 07 13.2±.3 **43.89N**±.02 **147.59E**±.03 **42** **3.5** **¶97xi4604**
JMA XI 26 02 51 53.2±.2 **43.65N**±.01 **146.85E**±.02 **48**±3 **2.9** **¶97xi4616**
JMA XI 26 04 34 20.4±.3 **43.60N**±.02 **146.29E**±.03 **69**±2 **¶97xi4633**
ISC XI 26 07 07 35±2.5 **49.3N**±.20 **156.6E**±.43 **111** **3.7b** **10 1-74**
EIDC XI 26 07 07 18.7 49.9N 154.2E 0 3.9b **¶97xi4646**
KRSC XI 26 07 07 37.9 49.55N 156.66E 111 3.9b
JMA XI 27 18 48 37.0±.4 **43.51N**±.03 **146.95E**±.03 **34** **3.2** **¶97xi4921**
JMA XI 28 02 04 45.0±.3 **43.55N**±.02 **147.23E**±.03 **30** **3.0** **¶97xi4993**
JMA XI 28 21 42 42.2±.4 **43.95N**±.03 **147.97E**±.03 **6** **3.1** **¶97xi5146**
JMA XI 28 22 18 08.1±.3 **43.57N**±.02 **147.20E**±.02 **48** **3.2** **¶97xi5148**
ISC XI 29 11 48 27±1.8 **43.3N**±.17 **147.6E**±.18 **51** 4.4b **18 1-70**
JMA XI 29 11 48 29.2±.3 43.22N±.02 147.37E±.03 51 3.6 **¶97xi5254**
ISC XI 29 22 07 00±4.0 **43.7N**±.21 **146.2E**±.45 **85** **8 0-2**
JMA XI 29 22 07 00.0±.2 43.71N±.01 146.17E±.02 85±2 2.9 **¶97xi5329**
JMA XI 30 08 15 14.2±.4 **43.32N**±.03 **147.05E**±.03 **52** **3.1** **¶97xi5388**
JMA XI 30 23 10 15.5±.3 **43.34N**±.02 **147.06E**±.03 **56** **3.2** **¶97xi5477**
ISC XII 01 04 24 35±2.3 **49.9N**±.25 **156.0E**±.19 **101**±13 **3.7b** **14 1-76**
KRSC XII 01 04 24 32.9 49.57N 156.59E 40 4.1b **¶97xii0033**
EIDC XII 01 04 24 42.3 50.0N 156.0E 150±125.6 3.4b
EIDC Origin time error = 13.61Error ellipse is semi-major=44.0km semi-minor=21.7km azimuth=171
JMA XII 01 11 04 47.4±.4 **43.30N**±.02 **146.83E**±.04 **53** **2.9** **¶97xii0072**
ISC XII 01 13 46 38±6.4 **43.4N**±.19 **146.4E**±.69 **76** **9 0-2**
JMA XII 01 13 46 38.1±.2 43.38N±.02 146.41E±.03 76±2 3.3 **¶97xii0094**
ISC XII 01 14 00 58±1.7 **48.30N**±.055 **155.19E**±.075 **17**±12 **4.4b,4.0s** **72 2-147**
BJI XII 01 14 00 58.7 48.11N 155.32E 41 4.6b **¶97xii0096**
NEIC XII 01 14 00 59.6 48.30N 155.10E 33 4.7b
SKHL XII 01 14 01 00.0 48.2N±.09 155.3E±.18 46±8
MOS XII 01 14 01 00.4 48.3N 155.3E 38 4.9b
EIDC XII 01 14 01 02.4±.46 48.3N 155.1E 35±3.9 4.1b,4.0s
SKHL K10
EIDC Error ellipse is semi-major=15.1km semi-minor=10.7km azimuth=144
JMA XII 01 17 47 18.4±.3 **43.60N**±.02 **147.41E**±.02 **22** **3.1** **¶97xii0119**
JMA XII 02 01 51 03.4±.1 **43.23N**±.00 **146.57E**±.01 **53**±1 **2.8** **¶97xii0169**
JMA XII 02 12 21 55.4±.1 **43.57N**±.01 **147.50E**±.02 **66**±4 **2.9** **¶97xii0243**
JMA XII 02 13 38 18.6±.6 **44.95N**±.06 **149.73E**±.07 **58** **3.7** **¶97xii0257**
EIDC XII 03 00 45 28.4±6.14 **48.4N** **152.6E** **215**±80.8 **3.2b** **26-77**
EIDC Error ellipse is semi-major=79.9km semi-minor=35.1km azimuth=8 **¶97xii0340**
JMA XII 03 08 57 23.4±.3 **43.66N**±.02 **147.18E**±.03 **54** **3.0** **¶97xii0390**
JMA XII 03 15 23 43.5±.9 **44.79N**±.09 **149.27E**±.11 **55** **3.6** **¶97xii0453**
JMA XII 03 16 39 28.5±.3 **43.89N**±.05 **147.72E**±.03 **0** **3.0** **¶97xii0464**
KRSC XII 03 22 37 01.3 **50.04N** **156.84E** **32** **3.8b** **¶97xii0514**
JMA XII 04 00 14 38.3±.3 **43.64N**±.02 **147.11E**±.02 **49** **3.2** **¶97xii0522**
ISC XII 04 01 03 48±1.1 **43.75N**±.075 **147.4E**±.12 **56**±9.2 **3.9b** **40 1-152**
SKHL XII 04 01 03 48.0 43.8N±.08 147.4E±.09 53±2 **¶97xii0526**
JMA XII 04 01 03 48.1±.3 43.60N±.01 147.25E±.02 30±5 4.0
NEIC XII 04 01 03 49.0 43.76N 147.31E 70
EIDC XII 04 01 03 51.2±2.93 43.8N 147.3E 72±26.6 3.6b
SKHL K10.5 Felt I=III–IV MSK at Shikotan
EIDC Error ellipse is semi-major=21.9km semi-minor=16.9km azimuth=124
JMA XII 04 04 59 46.0±.6 **44.15N**±.04 **147.87E**±.06 **19** **3.1** **¶97xii0560**
JMA XII 04 06 23 21.4±.8 **44.86N**±.10 **149.83E**±.10 **58** **3.5** **¶97xii0565**
JMA XII 04 09 32 53.7±.4 **43.32N**±.02 **147.11E**±.04 **40** **3.2** **¶97xii0588**
JMA XII 04 19 26 07.6±.1 **43.56N**±.01 **146.52E**±.02 **55**±2 **2.9** **¶97xii0673**
JMA XII 05 15 04 48.7±.9 **44.98N**±.07 **149.83E**±.10 **59** **3.6** **¶97xii0923**
JMA XII 05 20 16 37.0±.3 **43.84N**±.02 **147.61E**±.03 **51** **2.8** **¶97xii1073**
JMA XII 05 21 52 36.9±.3 **43.24N**±.02 **146.98E**±.03 **62**±5 **2.6** **¶97xii1110**
JMA XII 05 23 13 48.6±.3 **43.24N**±.02 **146.63E**±.03 **53**±4 **2.8** **¶97xii1141**
JMA XII 06 02 47 24.7±.3 **43.31N**±.02 **146.81E**±.03 **52**±4 **3.1** **¶97xii1214**
JMA XII 06 15 52 57.3±.7 **45.35N**±.09 **150.05E**±.10 **59** **3.5** **¶97xii1460**
JMA XII 07 07 32 02.0±.3 **43.33N**±.02 **146.76E**±.02 **45**±3 **3.0** **¶97xii1650**
JMA XII 07 09 41 27.1±.4 **43.43N**±.03 **147.04E**±.04 **39** **3.0** **¶97xii1669**
ISC XII 07 10 17 46.8±.65 **43.17N**±.049 **146.78E**±.056 **65**±5.3 **4.6b** **119 1-152**
MOS XII 07 10 17 42.9 43.1N 146.8E 33 4.9b **¶97xii1675**
BJI XII 07 10 17 46.8 43.29N 146.70E 57 4.6b
NEIC XII 07 10 17 46.9 43.13N 146.76E 68 4.7b
SKHL XII 07 10 17 47.0 43.2N±.07 146.9E±.13 64±1
JMA XII 07 10 17 47.5±.2 43.13N±.02 146.73E±.03 63±3 4.5
EIDC XII 07 10 17 48.8±.45 43.3N 146.7E 68±4.0 4.1b,3.7s
MOS Felt I=II MSK at Yuzshno–Kurilsk.
NEIC Felt I=II MSK at Yuzhno-Kurilsk, Kunashir. Also felt I J1 in eastern Hokkaido.
SKHL K10.5 Felt I=III MSK at Shikotan; I=II MSK at Juzhno–Kurilsk
EIDC Error ellipse is semi-major=13.5km semi-minor=11.5km azimuth=115
JMA XII 07 11 35 57.0±.3 **43.30N**±.02 **147.38E**±.02 **68** **3.1** **¶97xii1688**
JMA XII 07 14 30 36.7±.2 **43.64N**±.01 **146.25E**±.02 **104**±2 **¶97xii1718**
JMA XII 07 17 38 09.9±.2 **43.56N**±.02 **147.37E**±.02 **40** **3.2** **¶97xii1748**
ISC XII 08 05 40 23±2.5 **43.6N**±.32 **147.9E**±.23 **44**±26 **3.9b** **20 2-82**
JMA XII 08 05 40 17.5±.3 43.20N±.03 148.18E±.03 21 3.4 **¶97xii1874**
NEIC XII 08 05 40 26.3 44.47N 147.72E 33 4.8b
EIDC XII 08 05 40 31.0±4.80 44.5N 147.8E 57±49.8 3.6b,4.0L
NEIC Poor solution.
EIDC Error ellipse is semi-major=85.6km semi-minor=27.3km azimuth=178
JMA XII 08 10 06 18.1±.2 **43.80N**±.02 **147.92E**±.03 **85** **3.7** **¶97xii1907**
JMA XII 08 12 52 51.8±.3 **43.66N**±.02 **147.29E**±.02 **43** **3.2** **¶97xii1927**
JMA XII 08 18 31 40.4±.3 **43.88N**±.03 **147.35E**±.03 **56** **3.3** **¶97xii1986**
ISC XII 09 12 16 28±1.0 **44.37N**±.058 **148.2E**±.11 **61**±8.0 **4.1b** **55 1-148**
MOS XII 09 12 16 24.1 44.3N 148.3E 33 4.8b **¶97xii2166**
BJI XII 09 12 16 24.8 44.40N 148.20E 33 4.9b
NEIC XII 09 12 16 24.8 44.41N 148.23E 33 4.4b
JMA XII 09 12 16 28.9±.4 44.08N±.03 148.15E±.04 51 4.4
SKHL XII 09 12 16 29.0 44.3N±.09 148.2E±.07 66±5
EIDC XII 09 12 16 30.2±3.53 44.5N 148.0E 62±32.4 3.8b,3.7L
SKHL K10.5
EIDC Error ellipse is semi-major=19.8km semi-minor=14.4km azimuth=114
ISC XII 09 21 26 26±1.8 **43.9N**±.17 **146.6E**±.26 **104**±21 **13 1-56**
JMA XII 09 21 26 23.0±.2 43.88N±.02 146.94E±.03 121±2 **¶97xii2243**
JMA XII 10 05 28 30.8±.2 **43.61N**±.02 **147.27E**±.02 **52** **3.2** **¶97xii2300**
ISC XII 10 08 15 56±1.9 **49.15N**±.067 **153.49E**±.093 **38**±18 **4.6b** **53 2-148**
EIDC XII 10 08 15 52.7±.59 49.1N 153.6E 0 4.5b,4.3L **¶97xii2313**
MOS XII 10 08 15 53.9 49.1N 153.7E 27 4.9b
BJI XII 10 08 15 55.2 49.10N 153.50E 15 4.3b
NEIC XII 10 08 15 55.2 49.14N 153.56E 33 4.8b
EIDC Error ellipse is semi-major=17.9km semi-minor=13.2km azimuth=150
ISC XII 10 11 04 44±1.3 **44.90N**±.087 **148.8E**±.19 **135**±7.9 **3.8b** **47 1-81**
BJI XII 10 11 04 44.6 48.80N 147.90E 15 4.4b **¶97xii2335**
SKHL XII 10 11 04 46.0 44.9N±.05 148.6E±.05 130±5
JMA XII 10 11 04 48.8±.4 44.46N±.03 148.39E±.05 168
EIDC XII 10 11 04 51.8±.80 48.9N 148.0E 0 3.9b,4.5s
MOS XII 10 11 04 52.8 46.6N 148.5E 130 4.6b
NEIC XII 10 11 04 54.6 48.83N 147.94E 33 4.3b
SKHL K10
EIDC Error ellipse is semi-major=22.4km semi-minor=19.6km azimuth=120
NEIC Less reliable solution.
ISC XII 10 17 37 04±5.5 **46.5N**±.16 **153.1E**±.23 **98**±50 **3.8b** **13 17-78**
NEIC XII 10 17 36 56.7 46.50N 153.19E 33 4.1b **¶97xii2396**
BJI XII 10 17 36 58.0 46.37N 153.61E 54 4.4b
EIDC XII 10 17 36 59.3±.86 46.5N 153.4E 39±7.0 3.6b,3.0s
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=26.2km semi-minor=17.6km azimuth=141
ISC XII 10 21 12 34.5±.75 **43.66N**±.057 **147.22E**±.080 **69**±5.5 **4.5b** **109 1-152**
NEIC XII 10 21 12 33.3 43.67N 147.21E 59 4.9b **¶97xii2426**
SKHL XII 10 21 12 35.0 43.66N±.09 147.1E±.12 77±3
EIDC XII 10 21 12 35.1±.73 43.7N 147.2E 62±5.6 4.1b,3.4s
MOS XII 10 21 12 35.3 43.7N 147.1E 78 5.2b
JMA XII 10 21 12 35.4±.2 43.44N±.02 147.13E±.02 60±4 4.2
BJI XII 10 21 12 38.1 43.95N 146.29E 59 4.7b
SKHL K10.5 Felt I=III–IV MSK at Shikotan
EIDC Error ellipse is semi-major=13.2km semi-minor=11.2km azimuth=177
ISC XII 11 00 42 51±5.8 **50.4N**±.51 **157.2E**±.35 **40** **5 1-3**
KRSC XII 11 00 42 52.8 50.53N 157.09E 40 3.9b **¶97xii2455**
JMA XII 11 09 05 14.5±.4 **43.31N**±.02 **146.59E**±.03 **49**±4 **3.0** **¶97xii2525**
JMA XII 11 21 22 06.6±.4 **43.14N**±.02 **147.06E**±.03 **57** **3.1** **¶97xii2642**
JMA XII 11 22 35 40.3±.4 **43.46N**±.03 **146.77E**±.03 **47** **2.9** **¶97xii2649**
ISC XII 11 23 43 45.8±.80 **44.44N**±.061 **148.22E**±.089 **63**±6.4 **4.0b** **61 1-151**
BJI XII 11 23 43 44.2 44.29N 148.20E 54 **¶97xii2656**
NEIC XII 11 23 43 44.6 44.46N 148.23E 52 4.3b
SKHL XII 11 23 43 46.0 44.4N±.16 148.3E±.17 72±7
JMA XII 11 23 43 46.4±.4 44.13N±.03 148.20E±.04 41 4.3
EIDC XII 11 23 43 46.7±.49 44.5N 148.3E 52±4.1 3.7b,3.3s
MOS XII 11 23 43 46.8 44.4N 148.1E 77 4.8b
NEIC Less reliable solution.
SKHL K10
EIDC Error ellipse is semi-major=14.6km semi-minor=11.7km azimuth=117
SKHL XII 12 10 30 55.0 **49.3N**±.15 **156.4E**±.10 **40**±5 **¶97xii2732**
KRSC XII 12 10 30 55.0 49.64N 156.64E 0 4.1b
SKHL K10
JMA XII 12 17 35 50.3±.4 **43.28N**±.03 **146.74E**±.04 **56** **2.8** **¶97xii2796**
JMA XII 13 06 44 00.4±.2 **43.46N**±.02 **147.48E**±.02 **42** **3.1** **¶97xii2903**
JMA XII 13 09 17 42.6±.2 **43.75N**±.03 **147.17E**±.03 **106**±4 **¶97xii2924**
ISC XII 13 20 58 49±2.2 **43.2N**±.16 **146.4E**±.25 **81**±12 **3.9b** **19 1-70**
JMA XII 13 20 58 49.4±.2 43.15N±.01 146.48E±.02 62±3 3.8 **¶97xii3020**
EIDC XII 13 20 58 54.2±4.94 43.4N 146.3E 94±33.7 3.8b
EIDC Error ellipse is semi-major=39.6km semi-minor=35.5km azimuth=143
ISC XII 13 21 26 59±3.4 **43.6N**±.25 **146.1E**±.44 **80** **6 0-2**
JMA XII 13 21 26 59.8±.2 43.55N±.01 146.08E±.02 80±2 2.7 **¶97xii3025**
ISC XII 14 05 51 13±1.3 **48.0N**±.20 **153.7E**±.37 **33** **3.8b** **7 22-114**
EIDC XII 14 05 51 24.2±6.08 48.0N 153.5E 116±55.6 3.5b **¶97xii3091**
EIDC Error ellipse is semi-major=43.4km semi-minor=25.2km azimuth=112
ISC XII 14 08 42 02±1.8 **44.2N**±.22 **147.7E**±.26 **130**±26 **3.5b** **16 2-82**
NEIC XII 14 08 41 47.2 43.47N 147.69E 33 3.5b **¶97xii3118**
JMA XII 14 08 42 02.9±.3 43.92N±.03 147.87E±.03 105±5
EIDC XII 14 08 42 05.2±4.63 44.4N 147.6E 131±57.0 3.5b
NEIC Poor solution.
EIDC Error ellipse is semi-major=98.5km semi-minor=38.6km azimuth=9
JMA XII 14 11 13 20.2±.2 **43.17N**±.01 **146.43E**±.02 **61**±2 **2.6** **¶97xii3137**
ISC XII 14 14 20 37±1.1 **44.4N**±.23 **150.0E**±.17 **60** **3.2b** **24 3-81**
JMA XII 14 14 20 38.1±.7 44.93N±.05 149.82E±.09 60 3.5 **¶97xii3158**
EIDC XII 14 14 20 41.9±4.34 44.4N 153.2E 0 3.5b
EIDC Error ellipse is semi-major=108.8km semi-minor=35.7km azimuth=9
JMA XII 14 20 05 21.7±.3 **43.28N**±.03 **147.10E**±.03 **70**±4 **2.7** **¶97xii3191**
ISC XII 14 21 36 01±6.7 **44.9N**±.51 **146.5E**±.64 **202** **9 2-3**
JMA XII 14 21 36 04.2±.3 44.64N±.03 146.20E±.04 202±4 **¶97xii3199**
ISC XII 15 11 58 00.7±.88 **49.41N**±.062 **155.85E**±.088 **48**±7.5 **4.5b**,3.8s **73 1-147**
MOS XII 15 11 58 01.0 49.4N 155.9E 51 4.9b **¶97xii3280**
SKHL XII 15 11 58 01.0 49.4N±.10 156.2E±.05 40±1
KRSC XII 15 11 58 01.1 49.37N 155.94E 40 4.6b
BJI XII 15 11 58 01.3 49.59N 156.01E 84 4.3b
NEIC XII 15 11 58 03.6 49.41N 155.91E 73 4.6b
EIDC XII 15 11 58 05.4±.65 49.4N 155.9E 73±5.7 4.0b,3.8s
SKHL K10.5

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
EIDC		Error ellipse is semi-major=19.3km semi-minor=9.7km azimuth=151							
ISC	**XII**	**15 12 11 50**±10	**43.2N**±.25	**146.4E**±.99	**48**		**9**	**0-2**	
JMA	XII	15 12 11 49.4±.2	43.13N±.01	146.37E±.02	48±2	3.0			¶97xii3282
JMA	**XII**	**15 19 44 11.9**±.2	**43.65N**±.01	**147.32E**±.02	**36**±5	**2.8**			¶97xii3333
JMA	**XII**	**16 07 11 19.2**±.1	**43.39N**±.01	**146.72E**±.01	**61**±1	**2.4**			¶97xii3401
JMA	**XII**	**16 22 43 54.0**±.3	**43.31N**±.02	**147.06E**±.03	**54**±5	**3.0**			¶97xii3518
JMA	**XII**	**17 05 39 34.7**±.8	**45.20N**±.11	**150.20E**±.12	**59**	**3.5**			¶97xii3558
ISC	**XII**	**17 12 49 33**±1.6	**44.9N**±.30	**147.8E**±.27	**202**±24	**3.5b**	**19**	**2-78**	
JMA	XII	17 12 49 35.1±.4	44.60N±.04	147.89E±.06	193				¶97xii3606
EIDC	XII	17 12 49 35.7±4.75	45.5N	147.7E	177±87.3	3.3b			
EIDC		Error ellipse is semi-major=152.9km semi-minor=35.8km azimuth=4							
ISC	**XII**	**17 19 13 16**±1.1	**44.42N**±.072	**148.3E**±.12	**62**±7.7	**3.9b**	**47**	**1-133**	
NEIC	XII	17 19 13 13.0	44.52N	148.32E	33	4.8b			¶97xii3648
SKHL	XII	17 19 13 16.0	44.4N±.14	148.4E±.10	60±3				
JMA	XII	17 19 13 17.1±.5	44.19N±.03	148.23E±.05	48	4.1			
EIDC	XII	17 19 13 19.1±3.88	44.5N	148.3E	69±35.4	3.4b,3.6L			
NEIC		Less reliable solution.							
SKHL	K10								
EIDC		Error ellipse is semi-major=27.2km semi-minor=16.4km azimuth=130							
ISC	**XII**	**18 10 41 39.4**±.93	**48.4N**±.20	**154.8E**±.16	**33**	**3.9b,**3.4s	**20**	**22-147**	
NEIC	XII	18 10 41 39.6	48.48N	154.87E	33	4.2b			¶97xii3751
EIDC	XII	18 10 41 45.4±4.64	48.4N	154.8E	68±45.1	3.5b,3.4s			
NEIC		Less reliable solution.							
EIDC		Error ellipse is semi-major=32.2km semi-minor=17.8km azimuth=160							
JMA	**XII**	**18 13 35 22.6**±.2	**43.18N**±.02	**147.00E**±.03	**72**±4	**2.7**			¶97xii3772
JMA	**XII**	**18 14 59 22.0**±.3	**43.63N**±.02	**147.23E**±.03	**56**	**2.8**			¶97xii3783
ISC	**XII**	**18 18 34 22**±1.2	**43.32N**±.064	**148.0E**±.10	**36**±7.8	**4.3b**	**80**	**2-82**	
SKHL	XII	18 18 34 19.0	43.1N±.16	148.3E±.19	39±5				¶97xii3803
JMA	XII	18 18 34 20.5±.6	43.14N±.04	148.01E±.05	44	3.9			
MOS	XII	18 18 34 20.8	43.3N	147.9E	33	4.6b			
NEIC	XII	18 18 34 21.1	43.35N	147.84E	33	4.4b			
BJI	XII	18 18 34 21.9	43.66N	147.68E	22	4.7b,4.2s			
EIDC	XII	18 18 34 23.6±.65	43.3N	147.8E	39±4.4	3.9b,3.8L			
SKHL	K10								
NEIC		Less reliable solution.							
EIDC		Error ellipse is semi-major=18.3km semi-minor=14.7km azimuth=107							
JMA	**XII**	**19 03 07 31.1**±.4	**43.27N**±.02	**147.44E**±.05	**2**±4	**3.0**			¶97xii3884
ISC	**XII**	**19 11 52 24**±5.9	**43.4N**±.25	**146.1E**±.70	**60**		**4**	**0-1**	
JMA	XII	19 11 52 24.0±.3	43.36N±.01	146.06E±.03	60±2				¶97xii3948
ISC		Poorly determined							
JMA	**XII**	**19 12 08 05.0**±.3	**43.64N**±.02	**147.33E**±.03	**34**	**3.0**			¶97xii3954
JMA	**XII**	**20 08 29 31.6**±.3	**43.67N**±.02	**147.30E**±.03	**32**	**3.0**			¶97xii4099
JMA	**XII**	**20 12 24 09.3**±.2	**43.65N**±.02	**147.35E**±.02	**38**	**3.4**			¶97xii4112
ISC	**XII**	**21 04 40 45.0**±.57	**43.98N**±.056	**147.09E**±.073	**109**±4.8	**4.2b**	**83**	**1-149**	
BJI	XII	21 04 40 42.9	43.34N	146.89E	99	4.9b			¶97xii4211
NEIC	XII	21 04 40 43.9	44.05N	147.00E	99	4.3b			
MOS	XII	21 04 40 44.5	43.9N	147.1E	108	4.6b			
SKHL	XII	21 04 40 45.0	43.9N±.10	147.1E±.10	100±10				
EIDC	XII	21 04 40 45.5±.52	44.0N	147.0E	101±4.7	3.9b			
JMA	XII	21 04 40 46.4±.2	43.74N±.01	147.03E±.02	101±2	4.0			
MOS		Felt I=III MSK at Uzno−Kurilsk.							
SKHL		K10.5 Felt I=III MSK at Juzhno−Kurilsk							
EIDC		Error ellipse is semi-major=20.4km semi-minor=12.3km azimuth=116							
JMA	**XII**	**21 07 09 28.4**±.3	**43.55N**±.03	**147.95E**±.03	**43**	**3.3**			¶97xii4229
ISC	**XII**	**21 20 53 26**±8.1	**43.4N**±.28	**146.2E**±.98	**62**		**4**	**0-1**	
JMA	XII	21 20 53 26.4±.4	43.37N±.02	146.14E±.04	62±2				¶97xii4300
ISC		Poorly determined							
ISC	**XII**	**21 21 03 37.2**±.52	**43.24N**±.032	**146.41E**±.036	**52**±4.2	**5.2b,4.5s**	**400**	**1-154**	
EIDC	XII	21 21 03 31.2±.46	43.3N	146.3E	0	5.1b,4.3s			¶97xii4303
NEIC	XII	21 21 03 34.7	43.25N	146.40E	33	5.3b,4.6s			
BJI	XII	21 21 03 35.2	43.36N	146.63E	44	5.0b,4.5s			
MOS	XII	21 21 03 36.6	43.3N	146.4E	49	5.7b,4.4s			
SKHL	XII	21 21 03 37.0	43.1N±.14	146.6E±.16	55±1				
JMA	XII	21 21 03 37.1±.3	43.14N±.02	146.42E±.03	52±3	5.0			
HRVD	XII	21 21 03 38.2±1.1	43.19N±.13	147.05E±.10	58±8.5				
EIDC		Error ellipse is semi-major=15.7km semi-minor=12.0km azimuth=104							
NEIC		Mw5.2(HRV)							
NEIC		Felt I=IV MSK on Shikotan. Also felt II J1 in eastern Hokkaido.							
MOS		Felt I=IV−V MSK at Uzno−Kurilsk; I=IV at Malokurilsk,Kunashir.							
SKHL		Felt I=IV MSK at Malokurilskoe							
JMA		Felt I= II J1							
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c27; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.11±.30; $M_{\theta\theta}$0.11±.50; $M_{\phi\phi}$4.00±.53; $M_{r\theta}$0.57±.67; $M_{r\phi}$3.79±.80; $M_{\theta\phi}$−2.20±.43. Principal Axes: T 6.07,Plg19°,Azm252°; N −0.15, Plg19°,Azm349°; P −5.92,Plg63°,Azm120°. Best double couple: $M_0$6.0×10^{16}Nm, NP1: ϕ_S315°,δ31°,λ−128°. NP2:ϕ_S177°,δ66°,λ−70°.							
JMA	**XII**	**21 21 22 30.5**±.2	**43.19N**±.02	**146.40E**±.02	**53**±2	**2.9**			¶97xii4305
JMA	**XII**	**21 21 24 29.9**±.3	**43.16N**±.02	**146.42E**±.03	**51**±3	**2.8**			¶97xii4306
JMA	**XII**	**21 21 37 40.4**±.3	**43.15N**±.03	**146.42E**±.03	**51**±3	**2.9**			¶97xii4308
JMA	**XII**	**22 02 55 15.4**±.3	**43.17N**±.02	**146.43E**±.02	**49**±3	**2.8**			¶97xii4340
JMA	**XII**	**22 06 29 02.6**±.2	**43.15N**±.02	**146.99E**±.02	**68**±4	**3.0**			¶97xii4369
JMA	**XII**	**22 16 21 04.8**±.3	**43.58N**±.02	**147.36E**±.02	**47**	**3.0**			¶97xii4447
JMA	**XII**	**23 08 36 04.7**±.5	**44.33N**±.02	**148.81E**±.05	**59**	**3.7**			¶97xii4570
JMA	**XII**	**23 14 02 50.8**±.3	**43.15N**±.02	**146.43E**±.02	**51**±3	**2.9**			¶97xii4613
ISC	**XII**	**23 20 35 47**±3.0	**46.1N**±.14	**151.1E**±.22	**144**±23	**3.5b**	**21**	**6-79**	
EIDC	XII	23 20 35 49.4±5.19	46.1N	151.1E	151±44.4	3.3b			¶97xii4653
EIDC		Error ellipse is semi-major=42.4km semi-minor=20.5km azimuth=90							
ISC	**XII**	**24 08 08 09**±1.2	**43.80N**±.098	**147.5E**±.14	**50**±12	**3.7b**	**26**	**1-82**	
NEIC	XII	24 08 08 07.2	43.83N	147.62E	33	3.7b			¶97xii4723
SKHL	XII	24 08 08 10.0	43.8N±.14	147.5E±.10	64±2				
JMA	XII	24 08 08 10.2±.3	43.58N±.02	147.35E±.03	32	3.9			
EIDC	XII	24 08 08 13.6±3.48	43.8N	147.4E	75±35.9	3.4b,4.2L			
NEIC		Less reliable solution.							
SKHL	K10								
EIDC		Error ellipse is semi-major=43.4km semi-minor=28.7km azimuth=2							
JMA	**XII**	**24 14 49 18.7**±.2	**43.09N**±.02	**146.39E**±.02	**65**±2	**3.6**			¶97xii4776
JMA	**XII**	**24 19 49 41.3**±.6	**43.13N**±.04	**147.57E**±.06	**12**	**2.8**			¶97xii4813
JMA	**XII**	**24 21 08 53.4**±.3	**43.63N**±.02	**147.49E**±.03	**33**	**3.3**			¶97xii4823
JMA	**XII**	**25 04 12 34.2**±.4	**43.85N**±.03	**147.58E**±.03	**32**	**3.4**			¶97xii4863
ISC	**XII**	**25 04 35 43**±1.7	**46.7N**±.37	**152.1E**±.34	**33**	**3.4b**	**7**	**37-78**	
EIDC	XII	25 04 35 39.9±1.83	46.7N	152.2E	0	3.5b			¶97xii4867
NEIC	XII	25 04 35 42.9	46.72N	152.14E	33	3.3b			
EIDC		Error ellipse is semi-major=61.5km semi-minor=24.0km azimuth=153							
NEIC		Poor solution.							
ISC	**XII**	**25 09 36 09**±3.9	**50.5N**±.40	**157.6E**±.39	**112**		**9**	**1-5**	
KRSC	XII	25 09 36 12.2	50.90N	157.22E	112	3.8b			¶97xii4903
JMA	**XII**	**25 11 18 21.6**±.3	**43.73N**±.02	**147.04E**±.03	**51**	**3.0**			¶97xii4913
ISC	**XII**	**25 15 07 50**±5.1	**44.5N**±.44	**146.5E**±.53	**175**		**9**	**1-4**	
JMA	XII	25 15 07 52.2±.4	44.44N±.03	146.26E±.04	175±4				¶97xii4950
JMA	**XII**	**25 16 27 05.0**±.3	**43.63N**±.02	**147.29E**±.02	**34**	**3.0**			¶97xii4956
JMA	**XII**	**25 16 51 46.1**±.3	**43.36N**±.02	**147.21E**±.03	**55**	**3.2**			¶97xii4959
JMA	**XII**	**25 17 10 36.2**±.3	**43.62N**±.04	**146.44E**±.03	**118**±3				¶97xii4961
ISC	**XII**	**25 19 53 40**±1.1	**50.2N**±.11	**155.6E**±.15	**135**±7.8	**3.7b**	**31**	**1-81**	
KRSC	XII	25 19 53 39.8	49.82N	156.57E	104	4.1b			¶97xii4984
SKHL	XII	25 19 53 40.0	50.0N±.02	156.2E±.11	120				
EIDC	XII	25 19 53 45.1±1.45	50.2N	155.4E	170±12.1	3.3b			
NEIC	XII	25 19 53 46.6	50.30N	155.46E	200	4.2b			
SKHL	K10.5								
EIDC		Error ellipse is semi-major=21.4km semi-minor=18.0km azimuth=136							
NEIC		Less reliable solution.							
JMA	**XII**	**25 23 33 27.3**±.5	**43.19N**±.02	**146.39E**±.05	**47**±3	**3.2**			¶97xii5007
JMA	**XII**	**25 23 38 33.4**±.3	**43.72N**±.03	**147.34E**±.03	**52**	**2.8**			¶97xii5008
ISC	**XII**	**26 02 37 07**±1.0	**46.87N**±.069	**152.76E**±.083	**66**±9.5	**4.3b**	**70**	**4-148**	
MOS	XII	26 02 37 05.2	46.7N	152.8E	55	4.8b			¶97xii5031
NEIC	XII	26 02 37 05.7	46.88N	152.82E	55	4.7b			
SKHL	XII	26 02 37 06.0	46.7N±.16	153.0E±.21	42±2				
EIDC	XII	26 02 37 07.9±.68	46.9N	152.8E	56±4.9	4.1b,3.9s			
BJI	XII	26 02 37 14.5	46.43N	152.52E	39	4.0b			
SKHL	K10								
EIDC		Error ellipse is semi-major=19.4km semi-minor=11.7km azimuth=150							
JMA	**XII**	**26 05 53 53.0**±.4	**43.43N**±.02	**146.80E**±.04	**52**±4	**2.9**			¶97xii5062
JMA	**XII**	**26 09 16 32.1**±.5	**43.28N**±.05	**146.76E**±.05	**63**	**2.3**			¶97xii5093
ISC	**XII**	**26 13 31 12**±11	**44.0N**±.42	**146.2E**±.84	**94**±61		**8**	**1-2**	
JMA	XII	26 13 31 11.3±.4	43.99N±.03	146.26E±.04	102±4				¶97xii5133
ISC	**XII**	**26 15 15 02**±1.6	**44.3N**±.15	**148.2E**±.19	**40**		**14**	**2-55**	
JMA	XII	26 15 15 02.5±.4	44.12N±.03	148.12E±.04	40	3.9			¶97xii5160
JMA	**XII**	**26 15 42 22.6**±.2	**43.69N**±.01	**147.42E**±.02	**39**	**3.1**			¶97xii5167
ISC	**XII**	**26 15 53 28**±1.5	**44.4N**±.10	**148.3E**±.16	**63**±11	**3.7b**	**31**	**2-82**	
NEIC	XII	26 15 53 25.3	44.40N	148.46E	33	3.6b			¶97xii5168
JMA	XII	26 15 53 28.0±.3	44.10N±.03	148.29E±.03	44	4.0			
EIDC	XII	26 15 53 33.4±4.26	44.7N	148.0E	90±38.5	3.3b			
NEIC		Less reliable solution.							
EIDC		Error ellipse is semi-major=43.3km semi-minor=23.1km azimuth=130							
JMA	**XII**	**26 22 01 34.1**±.1	**43.56N**±.01	**147.16E**±.02	**62**±4	**2.7**			¶97xii5203
ISC	**XII**	**27 03 01 23.8**±.72	**48.7N**±.19	**153.1E**±.28	**200**	**3.4b**	**9**	**21-77**	
EIDC	XII	27 03 01 25.1±9.71	48.7N	153.1E	198±95.5	3.2b			¶97xii5234
EIDC		Error ellipse is semi-major=42.0km semi-minor=17.4km azimuth=130							
JMA	**XII**	**27 03 01 54.0**±.2	**43.65N**±.01	**147.10E**±.02	**81**±3	**2.8**			¶97xii5235
JMA	**XII**	**27 03 48 52.6**±.2	**43.16N**±.01	**146.44E**±.02	**51**±2	**2.9**			¶97xii5239
JMA	**XII**	**27 04 04 29.5**±.3	**43.38N**±.02	**147.55E**±.02	**59**	**3.0**			¶97xii5240
JMA	**XII**	**27 09 26 39.5**±.3	**43.38N**±.02	**147.03E**±.02	**29**±4	**3.1**			¶97xii5275
JMA	**XII**	**27 13 53 12.8**±.3	**43.02N**±.02	**146.93E**±.03	**68**±4	**2.9**			¶97xii5300
JMA	**XII**	**27 13 58 46.4**±.3	**43.11N**±.02	**146.27E**±.03	**48**±3	**3.0**			¶97xii5301
JMA	**XII**	**27 16 04 06.0**±.3	**43.82N**±.02	**147.62E**±.03	**68**	**3.5**			¶97xii5313
JMA	**XII**	**28 06 55 42.1**±.3	**44.09N**±.04	**148.37E**±.03	**44**	**3.2**			¶97xii5415
JMA	**XII**	**28 14 02 56.9**±.3	**43.57N**±.02	**147.21E**±.03	**52**	**3.3**			¶97xii5457
ISC	**XII**	**28 14 49 27**±5.9	**43.4N**±.21	**146.4E**±.65	**76**		**8**	**0-2**	
JMA	XII	28 14 49 26.7±.3	43.37N±.02	146.36E±.03	76±2	2.9			¶97xii5467
JMA	**XII**	**29 00 44 20.0**±.3	**43.23N**±.02	**146.95E**±.02	**52**±5	**3.2**			¶97xii5521
ISC	**XII**	**29 05 44 24**±5.5	**43.3N**±.23	**146.1E**±.63	**61**		**5**	**0-2**	
JMA	XII	29 05 44 24.0±.4	43.34N±.02	146.08E±.04	61±3	2.7			¶97xii5551
ISC	**XII**	**29 15 42 30**±2.2	**43.3N**±.27	**146.4E**±.20	**50**		**8**	**0-56**	
JMA	XII	29 15 42 27.1±.4	43.26N±.02	146.63E±.04	50±4	3.1			¶97xii5604
JMA	**XII**	**29 18 13 30.2**±.4	**44.17N**±.03	**148.18E**±.05	**40**	**3.6**			¶97xii5619
ISC	**XII**	**29 21 18 00**±7.2	**44.5N**±.37	**147.2E**±.77	**159**		**11**	**2-4**	
JMA	XII	29 21 18 01.8±.4	44.31N±.03	147.04E±.05	159±3				¶97xii5639
JMA	**XII**	**29 23 10 37.8**±.4	**43.29N**±.03	**146.71E**±.04	**61**±4	**2.6**			¶97xii5653
JMA	**XII**	**30 03 25 12.5**±.3	**43.26N**±.02	**146.62E**±.03	**49**±4	**2.8**			¶97xii5674
JMA	**XII**	**30 11 07 07.3**±.3	**43.63N**±.02	**147.19E**±.03	**54**	**2.8**			¶97xii5723
ISC	**XII**	**31 01 16 44.9**±.62	**43.37N**±.043	**146.72E**±.058	**69**±5.0	**4.6b**	**133**	**1-152**	
NEIC	XII	31 01 16 43.3	43.39N	146.58E	57	4.6b			¶97xii5817
MOS	XII	31 01 16 43.6	43.3N	146.7E	64	4.9b			
BJI	XII	31 01 16 44.7	43.80N	146.59E	55	4.5b,4.2s			
EIDC	XII	31 01 16 44.8±.70	43.4N	146.6E	57±6.0	4.2b,3.9s			
SKHL	XII	31 01 16 45.0	43.4N±.14	146.9E±.13	64±2				
JMA	XII	31 01 16 45.6±.3	43.28N±.02	146.70E±.03	63±3	4.4			
NEIC		Felt I=III MSK at Yuzhno−Kurilsk, Kunashir. Also felt I J1 in eastern Hokkaido.							
MOS		Felt I=II−III MSK at Uzno−Kurilsk.							
EIDC		Error ellipse is semi-major=15.9km semi-minor=12.9km azimuth=117							
SKHL	K10								
JMA	**XII**	**31 04 28 42.8**±.2	**43.85N**±.01	**147.74E**±.01	**48**±5	**3.1**			¶97xii5836
ISC	**XII**	**31 10 33 13**±1.4	**46.75N**±.089	**152.80E**±.093	**86**±11	**4.6b**	**65**	**4-148**	
SKHL	XII	31 10 33 12.0	46.8N±.10	152.9E±.05	70±1				¶97xii5878
MOS	XII	31 10 33 14.5	47.1N	152.8E	75	5.0b			
BJI	XII	31 10 33 16.4	46.97N	152.84E	129	4.8b			
NEIC	XII	31 10 33 16.9	46.85N	152.75E	116	4.5b			
EIDC	XII	31 10 33 18.8±3.76	46.8N	152.7E	122±34.5	3.7b			
SKHL	K10.5								
NEIC		Less reliable solution.							
EIDC		Error ellipse is semi-major=19.9km semi-minor=13.8km azimuth=132							
ISC	**XII**	**31 11 28 25**±1.8	**43.6N**±.10	**146.6E**±.25	**74**±18	**3.3b**	**14**	**1-68**	
EIDC	XII	31 11 28 18.6±1.01	43.5N	147.0E	0	3.4b,3.3L			¶97xii5885
JMA	XII	31 11 28 27.9±.2	43.57N±.01	146.30E±.02	67±2	3.8			
EIDC		Error ellipse is semi-major=31.1km semi-minor=20.8km azimuth=115							
ISC	**XII**	**31 13 46 54**±5.8	**45.76N**±.074	**149.2E**±.16	**6**±36	**4.0b**,3.0s	**25**	**1-151**	
MOS	XII	31 13 46 52.8	45.1N	149.1E	33	4.8b			¶97xii5908
EIDC	XII	31 13 46 54.3±.59	45.7N	149.3E	0	3.9b,3.4L			
SKHL	XII	31 13 46 57.0	45.9N±.05	149.1E±.05	30±5				
NEIC	XII	31 13 46 57.1	45.70N	149.12E	33	4.2b			
EIDC		Error ellipse is semi-major=20.1km semi-minor=13.9km azimuth=141							
SKHL	K10								
NEIC		Less reliable solution.							
ISC	**XII**	**31 18 28 40**±4.8	**44.5N**±.40	**146.5E**±.52	**178**		**10**	**1-4**	
JMA	XII	31 18 28 41.9±.3	44.39N±.03	146.34E±.04	178±3				¶97xii5943
ISC	**XII**	**31 19 13 58**±8.6	**43.6N**±.23	**146.4E**±.90	**68**		**8**	**1-2**	
JMA	XII	31 19 13 58.1±.3	43.57N±.01	146.31E±.03	68±2	3.7			¶97xii5954
JMA	**XII**	**31 21 12 39.9**±.2	**43.08N**±.01	**146.71E**±.02	**58**±3	**2.9**			¶97xii5971

(222) Kuril Islands region.

JMA	**VII**	**03 02 05 35.2**±1.0	**44.62N**±.11	**150.53E**±.12	**0**	**3.8**			¶97vii0337
ISC	**VII**	**06 12 55 05.4**±.91	**43.1N**±.16	**149.7E**±.10	**3**	**3.6b**	**38**	**3-81**	
JMA	VII	06 12 55 12.0±.5	43.05N±.03	149.36E±.04	3	3.4			¶97vii0888
EIDC	VII	06 12 55 12.5	43.2N	151.2E	0	3.5b			
NEIC	VII	06 12 55 15.3	43.25N	151.12E	33				
NEIC		Single network solution.							
JMA	**VII**	**13 20 25 52.6**±.3	**43.98N**±.04	**148.04E**±.03	**3**	**3.0**			¶97vii2021
JMA	**VII**	**16 14 27 15.5**±.8	**44.14N**±.07	**150.10E**±.08	**1**	**3.3**			¶97vii2451

JMA	**VII**	**17 17 00 31.6**±.2	**43.73N**±.03	**148.32E**±.02	**51**	**2.8**		¶97vii2617
JMA	**VII**	**21 18 13 22.6**±.5	**43.90N**±.05	**148.18E**±.05	**0**	**3.1**		¶97vii3274
ISC	**VII**	**23 02 09 59.2**±.62	**44.40N**±.080	**152.03E**±.091	**0**	**4.1b**	**60**	**5-150**
EIDC	VII	23 02 10 02.5	44.8N	151.9E	0	4.0b,4.2L		¶97vii3467
JMA	VII	23 02 10 02.8±.4	44.43N±.04	152.09E±.04	0	4.2		
BJI	VII	23 02 10 05.4	44.75N	151.53E	29	4.5b		
NEIC	VII	23 02 10 05.6	44.67N	151.74E	33	4.2b		
MOS	VII	23 02 10 11.0	45.5N	152.1E	33	4.2b		
NEIC	Less reliable solution.							
JMA	**VII**	**26 01 17 04.6**±.9	**43.97N**±.10	**148.72E**±.08	**0**	**3.2**		¶97vii3895
JMA	**VII**	**26 22 55 47.8**±.3	**43.90N**±.03	**148.39E**±.03	**9**	**3.4**		¶97vii4023
JMA	**VII**	**29 19 10 45.2**±.4	**43.89N**±.06	**148.41E**±.04	**32**	**2.9**		¶97vii4471
ISC	**VII**	**31 08 04 17.1**±.77	**44.0N**±.13	**148.7E**±.12	**33**	**3.6b**	**33**	**2-82**
EIDC	VII	31 08 04 10.6	44.3N	147.4E	0	3.5b		¶97vii4701
NEIC	VII	31 08 04 16.0	44.69N	147.38E	33			
JMA	VII	31 08 04 21.1±.5	43.99N±.05	148.07E±.05	22	3.8		
NEIC	Poor solution.							
JMA	**VIII**	**01 00 27 48.2**±1.0	**44.04N**±.10	**150.14E**±.11	**0**	**3.1**		¶97viii0003
KRSC	**VIII**	**05 12 56 41.0**	**49.71N**	**157.18E**	**43**	**3.8b**		¶97viii0669
ISC	**VIII**	**09 12 04 04**±2.5	**43.63N**±.043	**148.41E**±.066	**8**±15	**4.5b**	**131**	**2-153**
BJI	VIII	09 12 04 06.4	43.73N	148.26E	29	4.7b		¶97viii1246
JMA	VIII	09 12 04 07.0±.5	43.51N±.05	148.10E±.05	1	3.9		
SKHL	VIII	09 12 04 07.0	43.7N±.11	148.3E±.13	31±2			
MOS	VIII	09 12 04 07.2	43.7N	148.2E	30	4.8b		
NEIC	VIII	09 12 04 07.7	43.85N	148.16E	30	4.6b		
EIDC	VIII	09 12 04 09.9	44.0N	148.1E	30	4.0b,3.7L		
SKHL	K10							
ISC	**VIII**	**10 14 17 45**±1.8	**47.9N**±.12	**155.3E**±.18	**40**±14	**4.1b**	**26**	**3-78**
BJI	VIII	10 14 17 39.8	46.99N	155.87E	38	4.7b,4.3s		¶97viii1405
EIDC	VIII	10 14 17 42.6	48.1N	154.8E	0	4.1b,3.7L		
SKHL	VIII	10 14 17 44.0	47.84N±.02	155.62E±.04	29±3			
NEIC	VIII	10 14 17 45.2	47.96N	155.15E	33	4.8b		
MOS	VIII	10 14 17 45.7	48.0N	155.3E	33	4.9b		
SKHL	K10							
NEIC	Less reliable solution.							
ISC	**VIII**	**10 14 30 50**±2.3	**47.91N**±.068	**155.29E**±.099	**21**±16	**4.1b**	**58**	**3-147**
EIDC	VIII	10 14 30 47.9	47.9N	155.2E	0	4.0b,4.0L		¶97viii1406
BJI	VIII	10 14 30 49.9	47.83N	155.29E	34	4.7b		
SKHL	VIII	10 14 30 50.0	47.9N±.18	155.6E±.21	32±5			
MOS	VIII	10 14 30 51.4	47.9N	155.3E	33	4.9b		
NEIC	VIII	10 14 30 51.4	47.95N	155.06E	33	4.5b		
SKHL	K10							
ISC	**VIII**	**10 19 43 03**±1.5	**43.1N**±.30	**148.9E**±.37	**0**	**3.5b**	**5**	**11-82**
EIDC	VIII	10 19 43 04.4	43.1N	149.2E	0	3.5b,3.3L		¶97viii1449
JMA	**VIII**	**11 12 05 31.1**±.5	**43.94N**±.05	**148.38E**±.05	**3**	**3.1**		¶97viii1555
ISC	**VIII**	**19 09 30 50.6**±.42	**45.88N**±.063	**153.50E**±.063	**39**±5.7*	**4.0b**	**79**	**4-79**
EIDC	VIII	19 09 30 47.3	46.1N	153.5E	0	4.0b,3.7L		¶97viii2790
SKHL	VIII	19 09 30 48.0	46.0N±.16	153.8E±.17	23±5			
NEIC	VIII	19 09 30 50.0	46.03N	153.36E	33	4.1b		
BJI	VIII	19 09 30 50.3	46.15N	153.63E	36	4.4b		
MOS	VIII	19 09 30 50.9	46.1N	153.6E	33	4.7b		
JMA	VIII	19 09 30 52.7±.5	44.80N±.05	153.58E±.05	65			
SKHL	K10							
NEIC	Less reliable solution.							
ISC	**VIII**	**20 16 26 32**±1.2	**44.75N**±.065	**151.2E**±.11	**40**±9.3	**4.0b**	**87**	**2-147**
SKHL	VIII	20 16 26 32.0	44.9N±.20	151.3E±.16	38±8			¶97viii2989
MOS	VIII	20 16 26 33.2	45.1N	151.2E	33	4.9b		
BJI	VIII	20 16 26 33.3	45.14N	150.93E	37	4.6b		
JMA	VIII	20 16 26 33.7±.4	44.81N±.04	151.33E±.05	25	4.1		
NEIC	VIII	20 16 26 34.1	45.26N	150.72E	33	4.6b		
EIDC	VIII	20 16 26 35.7	45.3N	150.7E	28	3.9b,3.7L		
SKHL	K10							
ISC	**VIII**	**24 17 45 25.5**±.80	**44.56N**±.097	**152.8E**±.11	**49**	**3.8b**	**47**	**4-79**
JMA	VIII	24 17 45 24.1±.6	44.97N±.06	153.17E±.06	49	4.2		¶97viii3572
EIDC	VIII	24 17 45 24.6	45.1N	153.0E	0	3.9b		
NEIC	VIII	24 17 45 24.7	44.60N	152.97E	33			
SKHL	VIII	24 17 45 27.0	45.2N±.15	152.6E±.12	47±4			
NEIC	Less reliable solution.							
SKHL	K10							
JMA	**VIII**	**29 13 11 06.7**±.6	**43.99N**±.05	**149.83E**±.06	**0**	**3.4**		¶97viii4310
ISC	**VIII**	**31 10 26 25**±2.9	**44.49N**±.047	**150.53E**±.092	**6**±17	**4.3b,4.3s**	**113**	**2-150**
MOS	VIII	31 10 26 29.2	44.7N	150.4E	25	5.2b,4.1s		¶97viii4637
SKHL	VIII	31 10 26 30.0	44.6N±.16	150.5E±.10	55±1			
BJI	VIII	31 10 26 30.5	44.71N	150.11E	28	4.7b,4.2s		
NEIC	VIII	31 10 26 30.5	44.73N	150.17E	33	4.7b,4.3s		
JMA	VIII	31 10 26 31.3±.4	43.79N±.02	150.03E±.04	2	4.0		
EIDC	VIII	31 10 26 33.3	44.7N	150.2E	43	3.7b,3.5L		
SKHL	K10.5							
ISC	**IX**	**01 00 22 49**±3.2	**44.68N**±.091	**150.5E**±.12	**20**±21	**4.0b,3.6s**	**51**	**2-87**
SKHL	IX	01 00 22 37.0	43.5N±.04	151.3E±.06	30±5			¶97ix0005
BJI	IX	01 00 22 50.5	44.15N	150.04E	18	4.8b		
NEIC	IX	01 00 22 51.5	44.77N	150.35E	33	4.7b		
MOS	IX	01 00 22 51.9	44.6N	150.2E	33	4.9b		
EIDC	IX	01 00 22 55.6	44.9N	150.3E	52	3.6b,3.3s		
SKHL	K10							
NEIC	Less reliable solution.							
ISC	**IX**	**02 17 43 16**±3.2	**51.0N**±.26	**158.6E**±.33	**40**		**9**	**1-6**
KRSC	IX	02 17 43 16.9	51.04N	158.57E	40	3.7b		¶97ix0307
JMA	**IX**	**05 15 01 08.9**±.6	**44.18N**±.11	**150.05E**±.07	**1**	**3.3**		¶97ix0758
JMA	**IX**	**07 09 35 35.2**±.3	**43.97N**±.04	**148.28E**±.04	**49**	**3.7**		¶97ix1041
JMA	**IX**	**12 08 53 43.4**±.5	**43.71N**±.06	**148.00E**±.05	**15**	**3.2**		¶97ix1790
JMA	**IX**	**12 16 42 53.6**±.7	**44.87N**±.08	**150.98E**±.09	**0**	**3.6**		¶97ix1846
ISC	**IX**	**12 22 36 28.3**±.85	**45.98N**±.053	**152.11E**±.077	**49**±7.3	**4.6b,3.7s**	**154**	**3-149**
JMA	IX	12 22 36 27.0±.6	45.45N±.09	152.60E±.07	0	4.5		¶97ix1882
NEIC	IX	12 22 36 27.3	46.20N	151.96E	33	4.9b,4.0s		
MOS	IX	12 22 36 27.5	46.1N	151.8E	39	5.0b		
SKHL	IX	12 22 36 28.0	46.0N±.16	152.4E±.16	60±2			
BJI	IX	12 22 36 28.3	46.10N	152.49E	60	4.7b		
EIDC	IX	12 22 36 33.1	46.2N	151.9E	69	3.9b,3.6s		
SKHL	K11							
ISC	**IX**	**14 19 38 21**±2.6	**44.9N**±.15	**150.6E**±.26	**77**±26	**3.5b**	**41**	**4-80**
NEIC	IX	14 19 38 16.7	45.25N	150.41E	33			¶97ix2161
JMA	IX	14 19 38 17.2±.6	44.86N±.06	151.18E±.07	27	3.9		
EIDC	IX	14 19 38 24.9	45.3N	150.5E	88	3.3b,3.1s		
NEIC	Poor solution.							
ISC	**IX**	**15 17 36 02**±7.7	**43.7N**±.14	**148.1E**±.77	**56**±55		**35**	**2-8**
JMA	IX	15 17 36 08.2±.3	43.61N±.02	147.37E±.03	72±4			¶97ix2269
JMA	**IX**	**19 05 10 31.2**±.5	**43.89N**±.05	**148.05E**±.05	**25**	**3.6**		¶97ix2750
JMA	**IX**	**20 00 24 17.7**±.4	**43.87N**±.04	**148.24E**±.04	**0**	**3.6**		¶97ix2874
ISC	**IX**	**23 08 37 04.2**±.90	**48.0N**±.17	**156.7E**±.25	**33**	**3.8b**	**7**	**24-76**
EIDC	IX	23 08 37 01.1	48.0N	156.6E	0	3.5b		¶97ix3404
NEIC	IX	23 08 37 04.0	48.03N	156.66E	33			
NEIC	Less reliable solution.							
JMA	**IX**	**26 19 08 34.1**±.4	**43.94N**±.05	**148.70E**±.04	**0**	**3.3**		¶97ix4116
ISC	**IX**	**29 23 51 17**±2.5	**43.28N**±.046	**148.0E**±.11	**21**±20	**3.7b**	**54**	**2-82**
NEIC	IX	29 23 51 20.7	43.55N	147.53E	33			¶97ix5065
JMA	IX	29 23 51 21.1±.6	43.36N±.03	147.67E±.05	26	3.9		
SKHL	IX	29 23 51 23.0	43.5N±.13	147.7E±.10	34±8			
EIDC	IX	29 23 51 24.3	43.5N	147.5E	47	3.5b,3.9L		
NEIC	Less reliable solution.							
SKHL	K10							
ISC	**IX**	**30 17 09 05**±1.1	**46.5N**±.27	**155.6E**±.17	**33**	**3.6b**	**10**	**22-81**
EIDC	IX	30 17 09 01.3	46.4N	155.7E	0	3.6b		¶97ix5282
NEIC	IX	30 17 09 04.5	46.48N	155.66E	33			
NEIC	Poor solution.							
JMA	**X**	**02 15 35 33.6**±.4	**43.97N**±.05	**148.31E**±.04	**20**	**2.8**		¶97x0305
EIDC	**X**	**12 00 32 34.6**	**44.3N**	**150.0E**	**0**	**3.8b**		¶97x1963
EIDC	LO CONF Location							
JMA	**X**	**13 19 28 06.5**±.4	**43.95N**±.04	**148.19E**±.04	**27**	**3.4**		¶97x2271
ISC	**X**	**19 12 31 29**±2.4	**43.88N**±.065	**149.2E**±.11	**21**±17	**4.1b,**3.1s	**65**	**2-87**
SKHL	X	19 12 31 30.0	43.8N±.05	149.2E±.08	42±2			¶97x3349
MOS	X	19 12 31 31.8	44.1N	149.1E	33	4.8b		
NEIC	X	19 12 31 32.5	44.24N	148.83E	33	4.7b		
JMA	X	19 12 31 34.1±.7	44.11N±.03	148.91E±.08	60	3.7		
EIDC	X	19 12 31 35.8	44.3N	148.9E	43	3.6b,3.7L		
SKHL	K10							
NEIC	Less reliable solution.							
ISC	**X**	**28 15 25 36**±1.5	**43.80N**±.068	**149.1E**±.15	**33**±14	**3.8b**	**45**	**2-81**
SKHL	X	28 15 25 40.0	43.9N±.20	148.6E±.33	42±8			¶97x4781
JMA	X	28 15 25 40.9±.6	44.08N±.03	148.68E±.06	59	3.9		
NEIC	X	28 15 25 46.9	43.96N	147.76E	100			
EIDC	X	28 15 25 50.9	43.8N	147.7E	132	3.3b		
SKHL	K10							
NEIC	Poor solution.							
JMA	**XI**	**02 04 00 31.8**±.3	**43.76N**±.03	**148.10E**±.03	**12**	**3.1**		¶97xi0192
ISC	**XI**	**06 10 17 22**±3.2	**44.93N**±.098	**151.4E**±.14	**24**±24	**3.7b**	**46**	**3-80**
EIDC	XI	06 10 17 21.9	45.4N	151.4E	0	3.8b,3.9L		¶97xi0959
NEIC	XI	06 10 17 24.9	45.32N	151.30E	33			
SKHL	XI	06 10 17 27.0	45.3N±.05	151.0E±.10	40±1			
JMA	XI	06 10 17 27.1±.6	45.36N±.04	151.06E±.07	58	4.0		
NEIC	Single network solution.							
SKHL	K10							
JMA	**XI**	**10 08 47 54.8**±.4	**43.97N**±.05	**148.07E**±.04	**34**	**2.8**		¶97xi1586
ISC	**XI**	**11 21 15 18**±1.1	**46.8N**±.14	**154.5E**±.15	**20**	**3.9b**	**16**	**4-77**
EIDC	XI	11 21 15 17.1	46.9N	154.7E	0	3.9b,2.8L		¶97xi1874
SKHL	XI	11 21 15 20.0	46.8N±.05	154.3E±.15	20±1			
NEIC	XI	11 21 15 20.2	46.88N	154.55E	33			
SKHL	K10							
NEIC	Less reliable solution.							
JMA	**XI**	**13 12 20 06.4**±.6	**43.65N**±.05	**148.35E**±.06	**30**	**3.2**		¶97xi2132
JMA	**XI**	**16 15 01 51.9**±.3	**43.88N**±.04	**148.07E**±.03	**42**	**2.9**		¶97xi2661
JMA	**XI**	**20 11 19 59.7**±.3	**43.91N**±.04	**148.10E**±.03	**45**	**3.4**		¶97xi3452
JMA	**XI**	**28 12 40 22.1**±.2	**43.94N**±.02	**148.00E**±.02	**21**	**3.0**		¶97xi5084
ISC	**XI**	**29 09 49 01**±3.6	**50.9N**±.30	**158.2E**±.36	**40**		**6**	**1-3**
KRSC	XI	29 09 49 02.2	50.98N	158.05E	40	3.8b		¶97xi5242
JMA	**XII**	**03 20 22 53.5**±.6	**44.53N**±.05	**150.08E**±.07	**60**	**3.6**		¶97xii0497
JMA	**XII**	**04 14 35 36.1**±.3	**43.91N**±.03	**148.05E**±.03	**24**	**3.6**		¶97xii0630
JMA	**XII**	**04 23 08 39.2**±1.1	**44.45N**±.07	**150.14E**±.12	**60**	**3.7**		¶97xii0714
JMA	**XII**	**06 08 01 06.9**±.3	**43.98N**±.04	**148.28E**±.04	**47**	**3.0**		¶97xii1300
ISC	**XII**	**06 20 59 47**±1.3	**44.77N**±.075	**150.9E**±.13	**42**±11	**4.1b**	**66**	**2-147**
EIDC	XII	06 20 59 45.0±1.28	45.4N	150.6E	0	4.1b,3.4L		¶97xii1523
JMA	XII	06 20 59 47.0±.6	45.06N±.04	150.98E±.07	59	3.9		
SKHL	XII	06 20 59 47.0	45.1N±.09	150.8E±.09	40±3			
NEIC	XII	06 20 59 47.9	45.22N	150.52E	33	4.4b		
MOS	XII	06 20 59 52.3	46.0N	150.7E	33	4.7b		
EIDC	Error ellipse is semi-major=38.2km semi-minor=19.6km azimuth=169							
SKHL	K10							
NEIC	Less reliable solution.							
JMA	**XII**	**08 06 04 27.8**±.5	**43.39N**±.05	**148.16E**±.04	**41**	**3.1**		¶97xii1878
JMA	**XII**	**09 02 16 45.4**±.4	**43.95N**±.03	**148.02E**±.04	**8**	**3.5**		¶97xii2076
JMA	**XII**	**09 04 47 29.8**±.3	**43.92N**±.03	**148.03E**±.03	**27**	**3.6**		¶97xii2102
ISC	**XII**	**09 14 12 30**±1.2	**43.8N**±.20	**151.0E**±.20	**34**	**3.6b**	**7**	**3-80**
EIDC	XII	09 14 12 26.6±1.29	43.7N	151.1E	0	3.7b		¶97xii2184
SKHL	XII	09 14 12 28.0	44.0N±.01	151.3E±.03	34±5			
EIDC	Error ellipse is semi-major=38.7km semi-minor=27.7km azimuth=39							
SKHL	K10							
JMA	**XII**	**10 01 18 21.2**±.3	**43.90N**±.03	**148.02E**±.03	**26**	**3.5**		¶97xii2274
ISC	**XII**	**10 05 20 37**±1.0	**44.96N**±.080	**150.4E**±.11	**50**±8.1	**4.1b,4.3s**	**67**	**2-80**
MOS	XII	10 05 20 29.0	43.9N	150.4E	33	5.3b		¶97xii2298
SKHL	XII	10 05 20 38.0	45.1N±.13	150.3E±.07	58±5			
JMA	XII	10 05 20 38.9±.5	45.08N±.03	150.37E±.06	60	4.4		
NEIC	XII	10 05 20 40.6	45.01N	150.10E	81	4.2b		
BJI	XII	10 05 20 40.8	44.46N	150.36E	102	4.9b		
EIDC	XII	10 05 20 44.3±3.54	45.0N	150.0E	97±32.0	3.6b,4.1s		
SKHL	K10.5							
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi-major=28.0km semi-minor=18.2km azimuth=141							
JMA	**XII**	**14 06 53 00.2**±.4	**43.92N**±.05	**148.06E**±.04	**27**	**3.4**		¶97xii3104
JMA	**XII**	**18 20 47 51.1**±.3	**43.94N**±.03	**148.17E**±.03	**20**	**3.3**		¶97xii3824
ISC	**XII**	**20 13 10 46**±1.1	**45.7N**±.20	**154.0E**±.26	**33**	**3.6b**	**7**	**28-78**
EIDC	XII	20 13 10 42.7±1.08	45.6N	154.0E	0	3.7b		¶97xii4117
NEIC	XII	20 13 10 45.7	45.66N	154.03E	33	3.7b		
EIDC	Error ellipse is semi-major=33.5km semi-minor=26.2km azimuth=134							
NEIC	Less reliable solution.							
JMA	**XII**	**22 16 25 26.9**±.5	**43.90N**±.04	**148.19E**±.05	**3**	**3.2**		¶97xii4448

(223) Eastern Sea of Japan.

ISC	**VII**	**04 17 56 52**±4.7	**43.1N**±.22	**139.3E**±.45	**32**		**7**	**1-2**
JMA	VII	04 17 56 52.1±.4	43.05N±.02	139.34E±.03	32±5	3.0		¶97vii0598
ISC	**VII**	**10 07 09 23**±2.1	**38.3N**±.18	**137.9E**±.11	**19**±18		**18**	**0-2**
JMA	VII	10 07 09 24.3±.3	38.27N±.02	137.86E±.02	15±4	3.0		¶97vii1465
ISC	**VII**	**13 18 20 16**±7.6	**43.3N**±.34	**139.0E**±.66	**30**		**9**	**1-2**
JMA	VII	13 18 20 17.1±.3	43.18N±.02	139.13E±.03	30±5	2.8		¶97vii2007
ISC	**VII**	**20 11 48 31**±1.3	**39.95N**±.051	**138.2E**±.16	**302**±15		**48**	**1-7**
JMA	VII	20 11 48 31.6±.2	39.94N±.01	138.22E±.03	295±3			¶97vii3081
ISC	**VII**	**23 09 59 35**±9.1	**42.4N**±.16	**138.9E**±.89	**23**±24		**6**	**1-2**
JMA	VII	23 09 59 34.7±.5	42.42N±.01	138.90E±.04	22	2.8		¶97vii3512
ISC	Poorly determined							
ISC	**VII**	**29 04 41 47**±5.0	**42.01N**±.094	**138.9E**±.44	**20**±22		**12**	**0-2**
JMA	VII	29 04 41 47.5±.5	42.00N±.02	138.92E±.04	26±4	3.2		¶97vii4383

Agency		Origin Time				φ	λ	h	Mag	n	Δ-Rng
		mo	d	h	m	s	°	°	km			°
ISC	**VIII**	**05**	**15**	**10**	**46**±5.0	**42.5N**±.12	**138.9E**±.43	**21**±18		**10**	**1-2**
JMA	VIII	05	15	10	46.8±.5	42.41N±.02	139.03E±.04	32±4	3.2	**¶97viii0682**	
ISC	**VIII**	**25**	**15**	**58**	**33**±4.2	**41.98N**±.083	**139.0E**±.32	**12**±15		**12**	**0-2**
JMA	VIII	25	15	58	33.7±.4	41.97N±.01	139.05E±.03	21±3	3.0	**¶97viii3709**	
ISC	**VIII**	**26**	**06**	**08**	**15**±5.7	**41.2N**±.16	**139.0E**±.56	**12**		**7**	**1-2**
JMA	VIII	26	06	08	16.4±.4	41.18N±.01	139.09E±.03	12	2.8	**¶97viii3795**	
ISC	**IX**	**01**	**11**	**13**	**37**±5.3	**42.4N**±.11	**138.9E**±.44	**16**±20		**11**	**1-2**
JMA	IX	01	11	13	38.3±.5	42.36N±.02	139.03E±.04	28±4	2.8	**¶97ix0098**	
JMA	**IX**	**10**	**03**	**18**	**49.4**±.5	**42.78N**±.02	**138.79E**±.07	**322**		**¶97ix1469**	
ISC	**IX**	**11**	**18**	**56**	**59**±4.6	**39.04N**±.070	**138.7E**±.14	**15**±38		**23**	**1-3**
JMA	IX	11	18	56	57.7±.4	39.09N±.01	138.59E±.03	5±4	3.3	**¶97ix1723**	
ISC	**IX**	**12**	**21**	**15**	**11**±5.7	**43.0N**±.22	**139.2E**±.49	**19**±22		**6**	**1-1**
JMA	IX	12	21	15	12.0±.4	42.97N±.02	139.22E±.03	29	2.9	**¶97ix1876**	
ISC	**IX**	**12**	**22**	**45**	**32**±2.1	**39.87N**±.063	**138.6E**±.22	**35**		**18**	**1-3**
JMA	IX	12	22	45	30.8±.3	39.91N±.01	138.50E±.03	35	3.4	**¶97ix1883**	
ISC	**IX**	**13**	**08**	**05**	**17**±13	**42.3N**±.18	**138.7E**±.91	**2**±36		**7**	**1-2**
JMA	IX	13	08	05	22.5±.7	42.30N±.02	139.05E±.06	19	3.0	**¶97ix1951**	
ISC	**IX**	**16**	**06**	**18**	**34**±1.6	**41.2N**±.11	**138.3E**±.17	**20**		**11**	**1-63**
JMA	IX	16	06	18	42.1±.3	41.28N±.01	139.21E±.03	20	3.2	**¶97ix2344**	
ISC	**IX**	**25**	**20**	**19**	**09**±9.4	**42.2N**±.15	**138.9E**±.73	**11**±22		**8**	**0-2**
JMA	IX	25	20	19	12.2±.5	42.22N±.02	139.13E±.04	18±3	2.8	**¶97ix3789**	
ISC	**IX**	**29**	**21**	**53**	**22**±1.5	**41.28N**±.047	**139.0E**±.19	**28**		**22**	**1-3**
JMA	IX	29	21	53	21.5±.2	41.24N±.01	139.02E±.02	28±4	3.5	**¶97ix5036**	
ISC	**IX**	**30**	**10**	**12**	**57**±6.5	**42.5N**±.15	**138.9E**±.62	**22**		**4**	**1-1**
JMA	IX	30	10	12	56.7±.4	42.51N±.01	138.94E±.04	22	2.8	**¶97ix5196**	
ISC	Poorly determined										
ISC	**X**	**01**	**03**	**34**	**56.0**±.33	**44.30N**±.048	**140.69E**±.082	**240**±4.0	**3.7b**	**44**	**1-86**
SKHL	X	01	03	34	55.0	44.3N±.06	140.6E±.11	226±2		**¶97x0018**	
JMA	X	01	03	34	56.7±.2	44.34N±.01	140.76E±.02	238±2			
NEIC	X	01	03	34	56.7	44.28N	140.62E	250	3.9b		
EIDC	X	01	03	34	57.1	44.4N	140.7E	238	3.5b		
NEIC	Less reliable solution.										
ISC	**X**	**03**	**17**	**34**	**31**±5.1	**42.3N**±.11	**139.0E**±.50	**24**		**8**	**0-2**
JMA	X	03	17	34	31.1±.7	42.28N±.02	139.02E±.06	24	3.0	**¶97x0499**	
ISC	**X**	**05**	**02**	**29**	**30.4**±.30	**43.31N**±.041	**138.01E**±.059	**263**±4.0	**4.2b**	**96**	**2-152**
BJI	X	05	02	29	30.3	43.28N	138.04E	284	4.2b	**¶97x0783**	
MOS	X	05	02	29	30.5	43.4N	137.9E	260	4.5b		
EIDC	X	05	02	29	30.9	43.4N	137.9E	255	3.9b		
SKHL	X	05	02	29	31.0	43.3N±.08	138.0E±.15	276±15			
JMA	X	05	02	29	31.2±.2	43.22N±.02	138.22E±.04	276±2			
NEIC	X	05	02	29	31.4	43.32N	138.00E	274	4.3b		
ISC	**X**	**09**	**20**	**42**	**00.2**±.73	**41.99N**±.033	**138.93E**±.032	**16**±5.5	**5.2b,5.1s**	**275**	**0-153**
JMA	X	09	20	42	00.1±.2	41.89N±.01	138.93E±.02	38±3	5.1	**¶97x1639**	
BJI	X	09	20	42	01.8	42.16N	139.15E	48	5.0b,5.4s		
NEIC	X	09	20	42	02.2	41.98N	138.86E	33	5.2b,4.8s		
MOS	X	09	20	42	02.8	42.0N	138.7E	33	5.6b,5.3s		
EIDC	X	09	20	42	03.6	42.0N	138.9E	30	4.4b,4.0L		
HRVD	X	09	20	42	05.1±.3	41.95N±.03	138.78E±.04	42±2.3			
JMA	Felt I=III J1										
NEIC	Mw5.5(HRV)										
NEIC	Felt I=III J1 on Okushiri; II J1 in Aomori Prefecture, Honshu and south western Hokkaido.										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c52; Half duration: 1S4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.64±.04; $M_{\theta\theta}$0.01±.05; $M_{\phi\phi}$−1.65±.06; $M_{r\theta}$−0.19±.09; $M_{r\phi}$−0.51±.11; $M_{\theta\phi}$−0.38±.06. Principal Axes: T 1.73,Plg81°,Azm119°; N 0.09,Plg3°,Azm13°; P −1.82,Plg9°,Azm282°. Best double couple: $M_0$1.8×10^{17}Nm, NP1: ϕ_S9°,δ36°,λ86°. NP2:ϕ_S195°,δ54°,λ93°.										
ISC	**X**	**09**	**21**	**23**	**09**±9.2	**41.9N**±.27	**138.8E**±.85	**31**		**8**	**1-2**
JMA	X	09	21	23	09.2±.4	41.91N±.01	138.80E±.03	31±3	3.1	**¶97x1644**	
ISC	**X**	**12**	**13**	**44**	**02**±8.0	**43.0N**±.16	**139.3E**±.82	**28**		**9**	**1-2**
JMA	X	12	13	44	00.3±.3	43.07N±.01	139.17E±.03	28±4	3.0	**¶97x2051**	
ISC	**X**	**14**	**12**	**00**	**19**±2.4	**39.5N**±.12	**138.6E**±.23	**27**		**12**	**1-2**
JMA	X	14	12	00	19.3±.2	39.44N±.01	138.68E±.02	27±4	3.1	**¶97x2399**	
JMA	**X**	**15**	**21**	**39**	**03.0**±.3	**40.08N**±.01	**138.72E**±.02	**39**±4	**2.9**	**¶97x2729**	
ISC	**X**	**22**	**11**	**52**	**28**±1.6	**39.58N**±.086	**138.6E**±.17	**40**±16	**3.2b**	**20**	**1-63**
EIDC	X	22	11	52	14.3	41.1N	136.7E	0	3.2b,3.6L	**¶97x3805**	
JMA	X	22	11	52	26.9±.1	39.60N±.00	138.58E±.01	39±3	3.6		
ISC	**X**	**23**	**21**	**24**	**00**±2.9	**39.58N**±.082	**139.0E**±.17	**8**±22		**10**	**1-3**
JMA	X	23	21	24	00.0±.3	39.59N±.01	138.87E±.02	16±4	3.0	**¶97x4068**	
ISC	**X**	**23**	**22**	**38**	**49**±7.7	**39.8N**±.33	**138.6E**±.75	**56**		**8**	**1-2**
JMA	X	23	22	38	49.4±.2	39.79N±.01	138.71E±.02	56	3.0	**¶97x4078**	
ISC	**X**	**27**	**00**	**46**	**56**±4.8	**43.1N**±.18	**139.1E**±.47	**30**		**10**	**1-2**
JMA	X	27	00	46	56.2±.3	43.09N±.01	139.19E±.03	30±4	3.2	**¶97x4542**	
ISC	**XI**	**05**	**15**	**24**	**52**±6.0	**42.6N**±.17	**138.5E**±.66	**44**±51	4.0b	**10**	**1-62**
JMA	XI	05	15	24	57.0±.3	42.56N±.01	139.08E±.03	34±3	3.5	**¶97xi0823**	
ISC	**XI**	**05**	**15**	**50**	**18**±6.2	**42.6N**±.15	**138.9E**±.65	**34**		**8**	**1-2**
JMA	XI	05	15	50	19.1±.3	42.57N±.01	139.09E±.03	34±3	3.4	**¶97xi0826**	
ISC	**XI**	**07**	**08**	**07**	**04.6**±.54	**42.94N**±.077	**137.8E**±.12	**289**±8.6	**3.4b**	**30**	**2-75**
EIDC	XI	07	08	07	04.8	43.0N	137.7E	271	3.2b	**¶97xi1098**	
NEIC	XI	07	08	07	05.7	42.96N	137.62E	300			
JMA	XI	07	08	07	05.8±.4	42.92N±.03	138.04E±.06	293			
NEIC	Single network solution.										
ISC	**XI**	**08**	**08**	**08**	**08**±7.1	**41.3N**±.24	**138.9E**±.72	**28**		**7**	**1-2**
JMA	XI	08	08	08	08.4±.2	41.23N±.00	139.06E±.02	28±3	3.0	**¶97xi1234**	
JMA	**XI**	**11**	**06**	**19**	**24.6**±.2	**39.86N**±.00	**138.67E**±.02	**9**±2	**3.0**	**¶97xi1749**	
ISC	**XI**	**12**	**22**	**03**	**06.5**±.25	**43.26N**±.033	**137.59E**±.035	**275**±3.1	**4.7b**	**270**	**2-152**
SKHL	XI	12	22	03	06.0	43.2N±.04	137.7E±.08	292±4		**¶97xi2040**	
MOS	XI	12	22	03	06.3	43.3N	137.6E	271	4.9b		
BJI	XI	12	22	03	06.3	43.14N	137.66E	291	4.7b		
NEIC	XI	12	22	03	06.7	43.30N	137.55E	276	4.9b		
JMA	XI	12	22	03	07.2±.3	43.19N±.02	137.81E±.04	296±3	4.8		
EIDC	XI	12	22	03	07.9	43.3N	137.5E	274	4.4b		
ISC	**XI**	**13**	**10**	**41**	**39**±9.4	**41.8N**±.18	**138.1E**±.94	**35**		**8**	**1-2**
JMA	XI	13	10	41	42.4±.3	41.75N±.01	138.55E±.02	35	3.5	**¶97xi2123**	
ISC	**XI**	**13**	**14**	**52**	**59**±6.3	**42.6N**±.15	**139.0E**±.55	**18**±21		**8**	**1-2**
JMA	XI	13	14	53	00.6±.3	42.53N±.01	139.09E±.03	28±3	3.1	**¶97xi2156**	
ISC	**XI**	**14**	**22**	**12**	**17**±4.4	**43.0N**±.14	**139.7E**±.47	**21**±16		**9**	**0-2**
JMA	XI	14	22	12	16.8±.2	43.03N±.01	139.64E±.02	22±3	3.2	**¶97xi2357**	
ISC	**XI**	**16**	**12**	**49**	**52**±5.3	**43.8N**±.23	**138.9E**±.51	**36**		**8**	**1-2**
JMA	XI	16	12	49	53.1±.3	43.73N±.02	139.09E±.03	36	2.8	**¶97xi2648**	
ISC	**XI**	**21**	**03**	**43**	**22**±7.5	**44.3N**±.24	**140.2E**±.48	**276**±61		**14**	**1-4**
JMA	XI	21	03	43	23.8±.3	44.19N±.03	140.28E±.05	261		**¶97xi3573**	
ISC	**XI**	**22**	**06**	**56**	**44**±7.7	**40.0N**±.17	**138.7E**±.74	**44**		**11**	**1-2**
JMA	XI	22	06	56	42.9±.2	40.05N±.01	138.64E±.02	44±3	3.0	**¶97xi3823**	
ISC	**XI**	**23**	**03**	**50**	**58**±1.1	**39.93N**±.019	**138.87E**±.025	**7**±6.4	**5.7b,5.5s**	**564**	**1-161**
EIDC	XI	23	03	50	58.0	40.0N	138.9E	0	5.3b,5.1L	**¶97xi4018**	
BJI	XI	23	03	50	58.8	39.99N	139.11E	30	5.3b,5.9s		
JMA	XI	23	03	50	59.1±.1	39.97N±.01	138.84E±.02	41±4	5.6		
NEIC	XI	23	03	51	00.4	39.96N	138.83E	23	5.8b,5.2s		
MOS	XI	23	03	51	02.0	40.0N	138.8E	33	6.2b,5.6s		
HRVD	XI	23	03	51	04.5±.2	40.04N±.03	138.58E±.03	15			
JMA	Nodal plane solution: N65, Score 94%. NP1:ϕ_S63°,δ37°,λ167°. NP2:ϕ_S164°,δ81°,λ54°. Principle axes: T Plg42°,Azm40°; N Plg36°,Azm171°; P Plg27°,Azm282°.										
NEIC	Mw5.6(GS), Me5.5(GS). Felt I=VI MM.										
NEIC	Radiated energy from the USGS moment tensor solution: 3.8±0.6×10^{12}Nm/13										
NEIC	Mw 5.6 (HRV). Felt I=IV J1 in parts of Akita and Iwate Prefectures, Honshu. Depth from synthetics of broadband displacement seismograms.										
NEIC	Moment tensor solution: s36, scale 10^{17}Nm; M_{rr}2.72; $M_{\theta\theta}$−0.90; $M_{\phi\phi}$−1.82; $M_{r\theta}$−0.23; $M_{r\phi}$0.25; $M_{\theta\phi}$−1.34. Depth 15km; Principal axes: T 2.77,Plg83°,Azm222°; N 0.01,Plg7°, Azm35°; P −2.78,Plg1°,Azm125°. Best double couple: $M_0$2.8×10^{17}Nm; NP1:ϕ_S222°,δ45°, λ100°. NP2:ϕ_S29°,δ46°,λ80°.										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c52; Mantle waves: s9,c12; Half duration: 1S6. Moment tensor: Scale 10^{17}Nm; M_{rr}3.16±.05; $M_{\theta\theta}$−0.41±.07; $M_{\phi\phi}$−2.75±.09; $M_{r\theta}$0.05±.19; $M_{r\phi}$0.73±.25; $M_{\theta\phi}$−0.88±.06. Principal Axes: T 3.25,Plg83°,Azm262°; N −0.12,Plg3°,Azm18°; P −3.12,Plg6°,Azm108°. Best double couple: $M_0$3.2×10^{17}Nm, NP1:ϕ_S202°,δ39°,λ95°. NP2:ϕ_S15°,δ52°,λ86°.										
JMA	**XI**	**23**	**03**	**53**	**33.0**±.2	**40.01N**±.01	**138.86E**±.02	**12**±3	**4.3**	**¶97xi4019**	
JMA	**XI**	**23**	**03**	**55**	**09.4**±.1	**40.01N**±.00	**138.91E**±.01	**9**±1	**3.4**	**¶97xi4020**	
JMA	**XI**	**23**	**03**	**55**	**45.0**±.3	**39.95N**±.01	**138.84E**±.02	**7**±2	**3.2**	**¶97xi4021**	
JMA	**XI**	**23**	**03**	**56**	**39.5**±.1	**40.00N**±.00	**138.86E**±.01	**8**±1	**3.7**	**¶97xi4022**	
ISC	**XI**	**23**	**04**	**45**	**00**±4.1	**40.0N**±.13	**138.9E**±.40	**36**		**10**	**1-2**
JMA	XI	23	04	44	59.8±.2	39.97N±.00	138.94E±.01	36±2	3.1	**¶97xi4033**	
JMA	**XI**	**23**	**05**	**07**	**26.2**±.4	**39.95N**±.02	**138.90E**±.03	**39**±4	**2.9**	**¶97xi4041**	
JMA	**XI**	**23**	**05**	**18**	**56.1**±.3	**39.97N**±.01	**138.89E**±.02	**33**±3	**3.3**	**¶97xi4044**	
ISC	**XI**	**23**	**07**	**10**	**59**±1.9	**39.9N**±.12	**138.9E**±.18	**35**		**13**	**1-3**
JMA	XI	23	07	10	57.4±.1	39.95N±.00	138.81E±.01	35±2	3.7	**¶97xi4060**	
ISC	**XI**	**23**	**07**	**21**	**37**±1.3	**39.94N**±.048	**138.93E**±.077	**18**±11	**4.0b**	**32**	**1-147**
JMA	XI	23	07	21	36.7±.1	39.99N±.00	138.83E±.01	39±2	4.2	**¶97xi4062**	
NEIC	XI	23	07	21	39.8	39.88N	138.86E	41	4.5b		
BJI	XI	23	07	21	40.5	39.88N	139.08E	50			
EIDC	XI	23	07	21	42.0	39.9N	138.9E	42	3.7b,3.9L		
NEIC	Less reliable solution.										
ISC	**XI**	**23**	**07**	**28**	**09**±2.3	**40.0N**±.14	**138.9E**±.22	**31**		**10**	**1-2**
JMA	XI	23	07	28	08.0±.1	40.01N±.01	138.90E±.01	31±2	3.2	**¶97xi4064**	
ISC	**XI**	**23**	**07**	**44**	**10**±2.0	**40.0N**±.12	**138.9E**±.19	**39**		**14**	**1-3**
JMA	XI	23	07	44	08.9±.1	39.98N±.00	138.83E±.01	39±3	3.6	**¶97xi4066**	
JMA	**XI**	**23**	**07**	**44**	**38.7**±.2	**40.01N**±.00	**138.88E**±.01	**8**±1	**3.4**	**¶97xi4067**	
ISC	**XI**	**23**	**08**	**12**	**06**±1.5	**39.89N**±.045	**138.92E**±.074	**22**±12	**4.0b**	**36**	**1-147**
JMA	XI	23	08	12	05.4±.1	39.96N±.00	138.87E±.01	41±2	4.1	**¶97xi4071**	
NEIC	XI	23	08	12	05.8	39.91N	138.86E	23	4.7b		
EIDC	XI	23	08	12	07.2	39.9N	138.9E	20	3.8b,3.6L		
NEIC	Less reliable solution.										
JMA	**XI**	**23**	**08**	**28**	**36.4**±.1	**40.04N**±.01	**138.80E**±.01	**15**±2	**2.8**	**¶97xi4076**	
JMA	**XI**	**23**	**08**	**56**	**24.4**±.2	**39.99N**±.00	**138.87E**±.01	**18**±2	**2.9**	**¶97xi4082**	
ISC	**XI**	**23**	**09**	**49**	**45**±1.5	**39.91N**±.049	**138.95E**±.072	**26**±12	**3.9b**,3.7s	**34**	**1-147**
JMA	XI	23	09	49	44.5±.1	39.96N±.00	138.87E±.01	41±3	4.1	**¶97xi4089**	
NEIC	XI	23	09	49	44.5	39.90N	139.02E	23	4.6b		
EIDC	XI	23	09	49	46.3	39.9N	139.0E	19	3.7b,3.6L		
ISC	**XI**	**23**	**12**	**57**	**38**±7.2	**40.0N**±.16	**138.9E**±.68	**14**		**5**	**1-2**
JMA	XI	23	12	57	37.2±.2	39.96N±.01	138.88E±.01	14±2	2.9	**¶97xi4123**	
JMA	**XI**	**24**	**04**	**08**	**37.6**±.3	**39.92N**±.01	**138.89E**±.02	**29**±3	**2.8**	**¶97xi4261**	
ISC	**XI**	**24**	**05**	**15**	**05**±7.4	**39.9N**±.13	**138.8E**±.74	**37**		**9**	**1-2**
JMA	XI	24	05	15	04.8±.2	39.97N±.01	138.87E±.01	37±3	3.1	**¶97xi4269**	
ISC	**XI**	**24**	**11**	**10**	**31**±3.9	**39.99N**±.089	**138.9E**±.30	**15**±23		**10**	**1-2**
JMA	XI	24	11	10	29.9±.1	39.98N±.00	138.79E±.01	20±2	2.9	**¶97xi4305**	
ISC	**XI**	**24**	**15**	**40**	**20**±2.0	**39.9N**±.11	**138.8E**±.20	**37**		**13**	**1-2**
JMA	XI	24	15	40	18.7±.1	39.94N±.00	138.80E±.01	37±3	3.3	**¶97xi4342**	
ISC	**XI**	**24**	**16**	**25**	**46**±1.4	**39.88N**±.051	**138.88E**±.077	**16**±11	**3.8b**	**29**	**1-90**
EIDC	XI	24	16	25	45.3	39.9N	138.9E	0	3.7b,3.4L	**¶97xi4350**	
JMA	XI	24	16	25	46.1±.1	39.94N±.00	138.81E±.01	38±3	3.9		
NEIC	XI	24	16	25	48.6	39.86N	138.83E	33	3.9b		
NEIC	Less reliable solution.										
JMA	**XI**	**24**	**16**	**27**	**35.6**±.3	**39.96N**±.01	**138.78E**±.02	**17**±4	**3.0**	**¶97xi4351**	
ISC	**XI**	**24**	**17**	**47**	**51**±4.9	**40.1N**±.11	**139.0E**±.40	**17**±31		**11**	**1-2**
JMA	XI	24	17	47	50.2±.2	40.03N±.01	138.88E±.02	15±3	3.0	**¶97xi4357**	
JMA	**XI**	**25**	**01**	**16**	**33.1**±.2	**40.01N**±.01	**138.86E**±.02	**8**±2	**3.2**	**¶97xi4421**	
JMA	**XI**	**25**	**04**	**57**	**31.3**±.1	**39.97N**±.00	**138.85E**±.01	**10**±2	**2.9**	**¶97xi4446**	
JMA	**XI**	**26**	**04**	**58**	**53.9**±.2	**39.99N**±.01	**138.89E**±.02	**15**±4	**2.8**	**¶97xi4640**	
JMA	**XI**	**26**	**09**	**14**	**57.5**±.5	**40.13N**±.02	**138.76E**±.04	**23**	**2.9**	**¶97xi4664**	
ISC	**XI**	**27**	**20**	**57**	**16**±8.2	**42.6N**±.26	**139.0E**±.68	**16**±42		**6**	**1-2**
JMA	XI	27	20	57	17.3±.4	42.56N±.01	139.09E±.03	30±4	2.8	**¶97xi4939**	
ISC	Poorly determined										
ISC	**XI**	**28**	**08**	**43**	**42**±2.0	**40.0N**±.12	**138.9E**±.20	**39**		**11**	**1-2**
JMA	XI	28	08	43	41.4±.1	39.98N±.00	138.84E±.01	39±2	3.5	**¶97xi5041**	
ISC	**XI**	**28**	**11**	**37**	**30**±5.1	**40.0N**±.18	**139.0E**±.49	**10**		**4**	**1-2**
JMA	XI	28	11	37	29.3±.1	39.98N±.00	138.90E±.01	10±2	2.8	**¶97xi5077**	
ISC	Poorly determined										
ISC	**XI**	**28**	**23**	**47**	**52**±2.1	**39.99N**±.093	**138.8E**±.16	**18**±18		**15**	**1-3**
JMA	XI	28	23	47	52.3±.2	40.00N±.01	138.80E±.02	34±4	4.0	**¶97xi5158**	
JMA	**XI**	**29**	**23**	**03**	**13.5**±.5	**39.95N**±.02	**138.69E**±.04	**29**	**2.9**	**¶97xi5339**	
ISC	**XI**	**30**	**16**	**34**	**34**±4.1	**39.9N**±.11	**138.8E**±.41	**36**		**11**	**1-2**
JMA	XI	30	16	34	33.6±.2	39.95N±.01	138.85E±.02	36±3	3.2	**¶97xi5434**	
JMA	**XII**	**01**	**02**	**21**	**52.1**±.2	**39.96N**±.01	**138.85E**±.02	**18**±3	**2.8**	**¶97xii0014**	
ISC	**XII**	**01**	**11**	**50**	**36**±1.8	**39.98N**±.087	**138.9E**±.18	**37**		**13**	**1-2**
JMA	XII	01	11	50	35.5±.2	40.00N±.01	138.87E±.02	37±4	3.4	**¶97xii0079**	
ISC	**XII**	**01**	**18**	**03**	**39**±5.6	**40.0N**±.19	**138.8E**±.49	**21**±23		**8**	**1-2**
JMA	XII	01	18	03	39.2±.2	39.99N±.01	138.83E±.02	27±3	3.4	**¶97xii0122**	
ISC	**XII**	**01**	**18**	**17**	**49.5**±.19	**39.78N**±.036	**138.88E**±.034	**48**±4.1*	**5.0b,4.4s**	**186**	**1-149**
EIDC	XII	01	18	17	44.7±.51	39.9N	138.8E	0	4.7b,4.1s	**¶97xii0124**	
JMA	XII	01	18	17	46.3±.1	39.95N±.00	138.86E±.01	43±3	4.8		
BJI	XII	01	18	17	47.0	39.93N	139.40E	48	4.1L,4.9b		
NEIC	XII	01	18	17	48.5	39.96N	138.81E	33	5.1b		
MOS	XII	01	18	17	48.8	39.9N	138.7E	36	5.4b,4.6s		
EIDC	Error ellipse is semi−major=16.4km semi−minor=12.6km azimuth=100										
JMA	Felt I=III J1										
BJI	Ms4.6										
NEIC	Felt I=III J1 in western Akita, southwestern Aomori, northern Iwate and northwestern Yamagata Prefectures, Honshu.										
ISC	**XII**	**01**	**19**	**51**	**47**±5.5	**40.0N**±.18	**138.9E**±.48	**19**±24		**7**	**1-2**
JMA	XII	01	19	51	46.1±.2	40.01N±.01	138.87E±.02	20±3	2.9	**¶97xii0136**	
ISC	**XII**	**02**	**12**	**30**	**37**±2.9	**39.96N**±.087	**138.9E**±.21	**26**±20		**15**	**1-3**
JMA	XII	02	12	30	36.3±.2	39.99N±.01	138.83E±.02	44±3	3.7	**¶97xii0244**	
ISC	**XII**	**02**	**18**	**47**	**46**±2.0	**39.93N**±.051	**138.96E**±.083	**30**±17	**4.1b**	**32**	**1-147**
BJI	XII	02	18	47	40.2	40.35N	139.67E	33		**¶97xii0295**	
JMA	XII	02	18	47	44.3±.1	39.99N±.00	138.89E±.01	42±2	4.2		
NEIC	XII	02	18	47	46.1	39.91N	138.89E	33	4.2b		
EIDC	XII	02	18	47	46.5±4.67	39.9N	139.0E	20±30.5	3.9b,3.4L		
EIDC	Error ellipse is semi−major=30.9km semi−minor=14.0km azimuth=110										

JMA	**XII**	**03 16 44 21.2**±.3	**43.48N**±.01	**138.69E**±.03	**29**	**2.9**			¶97xii0465
ISC	**XII**	**04 02 20 05**±1.3	**43.0N**±.11	**136.6E**±.39	**372**±30	**3.8b**		**23**	**4-67**	
EIDC	XII	04 02 19 11.9±3.02	40.7N	137.3E	0	4.2b,3.6L			¶97xii0538
JMA	XII	04 02 20 07.2±.3	42.91N±.02	136.96E±.04	386				
EIDC	Error ellipse is semi-major=271.5km semi-minor=31.5km azimuth=73								
ISC	**XII**	**07 00 58 07**±7.5	**40.0N**±.23	**138.8E**±.64	**18**±34			**6**	**1-2**	
JMA	XII	07 00 58 07.3±.2	40.01N±.01	138.83E±.02	19±3	2.8			¶97xii1572
ISC	Poorly determined								
ISC	**XII**	**09 07 54 44**±8.4	**40.1N**±.41	**138.9E**±.67	**16**			**6**	**1-2**	
JMA	XII	09 07 54 44.4±.4	40.01N±.02	138.92E±.03	16±4	2.8			¶97xii2128
ISC	Poorly determined								
JMA	**XII**	**12 03 19 15.8**±.2	**39.95N**±.01	**138.88E**±.02	**29**±3	**3.0**			¶97xii2686
ISC	**XII**	**13 07 36 12**±6.4	**42.7N**±.18	**138.4E**±.62	**38**			**10**	**1-2**	
JMA	XII	13 07 36 14.8±.3	42.57N±.01	138.72E±.02	38±4	3.3			¶97xii2910
ISC	**XII**	**14 06 39 53**±11	**42.5N**±.33	**139.0E**±.93	**22**			**7**	**1-2**	
JMA	XII	14 06 39 54.4±.3	42.44N±.01	139.10E±.02	22±3	3.0			¶97xii3102
ISC	**XII**	**14 18 12 59**±2.8	**39.99N**±.091	**138.8E**±.30	**40**			**11**	**1-2**	
JMA	XII	14 18 12 59.4±.1	40.00N±.01	138.84E±.01	40±3	3.3			¶97xii3176
ISC	**XII**	**14 22 25 18**±2.6	**39.6N**±.15	**138.5E**±.27	**6**			**6**	**1-2**	
JMA	XII	14 22 25 17.8±.2	39.64N±.01	138.57E±.02	6±3	3.0			¶97xii3204
ISC	**XII**	**15 02 04 45**±6.0	**40.0N**±.21	**139.0E**±.54	**20**±27			**7**	**1-2**	
JMA	XII	15 02 04 44.1±.2	40.00N±.01	138.90E±.02	19±3	3.2			¶97xii3228
ISC	Poorly determined								
JMA	**XII**	**16 18 19 45.6**±.3	**39.96N**±.01	**138.91E**±.03	**36**±4	**2.8**			¶97xii3486
ISC	**XII**	**18 13 44 07**±5.1	**44.3N**±.26	**141.0E**±.34	**257**±48			**15**	**1-4**	
JMA	XII	18 13 44 07.8±.2	44.25N±.02	141.19E±.04	251				¶97xii3773
JMA	**XII**	**19 02 34 00.3**±.2	**40.00N**±.01	**138.87E**±.02	**27**±4	**2.8**			¶97xii3878
ISC	**XII**	**19 06 09 57**±7.9	**42.4N**±.17	**138.9E**±.67	**12**±24			**6**	**0-2**	
JMA	XII	19 06 09 58.9±.3	42.34N±.01	139.11E±.03	22±2	2.8			¶97xii3905
ISC	**XII**	**19 10 00 33**±2.8	**39.99N**±.097	**138.8E**±.17	**26**±23			**16**	**1-3**	
JMA	XII	19 10 00 32.1±.1	40.02N±.00	138.78E±.01	47±3	3.5			¶97xii3928
JMA	**XII**	**21 04 16 13.9**±.5	**44.76N**±.03	**138.19E**±.04	**11**	**3.4**			¶97xii4209
ISC	**XII**	**21 05 10 45**±8.7	**42.6N**±.22	**138.9E**±.74	**3**±34			**5**	**1-2**	
JMA	XII	21 05 10 47.4±.4	42.50N±.01	139.01E±.03	19±4	2.8			¶97xii4217
ISC	Poorly determined								
ISC	**XII**	**25 07 42 54**±2.0	**40.0N**±.10	**138.9E**±.19	**35**			**14**	**1-2**	
JMA	XII	25 07 42 53.0±.1	39.98N±.01	138.81E±.01	35±3	3.5			¶97xii4889
ISC	**XII**	**25 12 16 23**±2.3	**41.01N**±.075	**139.0E**±.27	**32**			**11**	**1-2**	
JMA	XII	25 12 16 22.0±.1	41.02N±.00	138.99E±.01	32±2	3.6			¶97xii4927
ISC	**XII**	**25 19 44 30**±2.0	**44.4N**±.19	**140.5E**±.38	**246**			**10**	**1-4**	
JMA	XII	25 19 44 31.1±.2	44.35N±.03	140.67E±.05	246				¶97xii4981	
ISC	**XII**	**27 14 41 41.1**±.86	**43.8N**±.13	**138.3E**±.22	**290**±13	**3.5b**		**20**	**2-62**	
EIDC	XII	27 14 41 39.1±8.59	43.3N	138.1E	283±43.3	3.3b			¶97xii5304	
JMA	XII	27 14 41 42.3±.5	43.72N±.03	138.41E±.04	286±4					
EIDC	Error ellipse is semi-major=225.2km semi-minor=37.0km azimuth=4									
ISC	**XII**	**31 03 59 02.7**±.60	**44.46N**±.094	**140.8E**±.18	**255**±7.7	**3.3b**		**19**	**1-73**	
JMA	XII	31 03 59 02.9±.3	44.45N±.02	140.86E±.03	258±3				¶97xii5834	
EIDC	XII	31 03 59 03.7±1.70	44.6N	140.8E	245±17.0	3.1b				
EIDC	Error ellipse is semi-major=31.2km semi-minor=27.4km azimuth=91									

(224) Hokkaido region.

ISC	**VII**	**01 03 40 07.5**±.31	**42.51N**±.019	**144.66E**±.033	**71**±2.9	**5.0b**		**486**	**0-156**	
BJI	VII	01 03 40 06.8	42.74N	144.71E	68	5.1b,4.2s			¶97vii0024	
MOS	VII	01 03 40 06.9	42.7N	144.7E	61	5.7b				
HRVD	VII	01 03 40 07.3±.1	42.41N±.01	144.46E±.01	82±1.1					
NEIC	VII	01 03 40 07.3	42.66N	144.60E	65	5.1b				
EIDC	VII	01 03 40 08.5	42.5N	144.7E	64	4.8b,4.1s				
JMA	VII	01 03 40 08.6±.2	42.64N±.01	144.65E±.02	73±3	5.1				
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.89±.36; $M_{\theta\theta}$1.89±.68; $M_{\phi\phi}$0.00±.67; $M_{r\theta}$5.67±.40; $M_{r\phi}$−0.15±.43; $M_{\theta\phi}$0.63±.52. Principal Axes: T 6.00,Plg35°,Azm355°; N 0.01, Plg6°,Azm89°; P −6.01,Plg54°,Azm188°. Best double couple: $M_0$6.0×10^{16}Nm, NP1:ϕ_S57°, δ11°,λ−123°. NP2:ϕ_S270°,δ81°,λ−84°.									
NEIC	Mw5.2(HRV).									
JMA	Felt I=III J1									
ISC	**VII**	**01 08 51 48**±2.6	**42.0N**±.10	**141.1E**±.21	**135**±29			**16**	**0-3**	
JMA	VII	01 08 51 48.0±.4	42.03N±.02	141.14E±.03	136±4				¶97vii0051	
ISC	**VII**	**01 09 16 14.6**±.56	**41.58N**±.043	**142.08E**±.070	**43**±63			**30**	**1-5**	
JMA	VII	01 09 16 14.2±.1	41.55N±.01	142.08E±.01	53±5	2.9			¶97vii0057	
ISC	**VII**	**01 13 09 41**±1.2	**41.79N**±.063	**141.6E**±.11	**89**±20			**24**	**0-3**	
JMA	VII	01 13 09 41.6±.1	41.78N±.01	141.60E±.01	83±3				¶97vii0094	
ISC	**VII**	**01 14 27 47.2**±.37	**42.24N**±.030	**143.09E**±.062	**75**±4.0	**3.9b**		**92**	**0-152**	
MOS	VII	01 14 27 46.2	42.3N	143.3E	70	5.0b			¶97vii0102	
JMA	VII	01 14 27 47.8±.3	42.28N±.02	143.06E±.02	62±3	4.1				
NEIC	VII	01 14 27 47.9	42.36N	142.85E	79	4.0b				
BJI	VII	01 14 27 48.2	42.22N	142.97E	86	4.5b				
EIDC	VII	01 14 27 49.9	42.4N	142.8E	82	3.6b,3.2s				
JMA	Felt I=II J1									
NEIC	Less reliable solution.									
ISC	**VII**	**01 20 08 15**±1.5	**41.60N**±.057	**141.6E**±.13	**121**±22			**22**	**0-4**	
JMA	VII	01 20 08 15.9±.2	41.60N±.01	141.58E±.02	117±3				¶97vii0137	
ISC	**VII**	**02 06 56 03.9**±.98	**42.1N**±.13	**141.9E**±.10	**84**			**12**	**1-2**	
JMA	VII	02 06 56 03.9±.4	42.16N±.02	141.89E±.02	84±4				¶97vii0194	
ISC	**VII**	**02 17 58 28**±1.7	**42.24N**±.052	**139.1E**±.14	**21**±11	**3.4b**		**25**	**0-145**	
JMA	VII	02 17 58 26.3±.4	42.26N±.02	138.94E±.04	26±3	3.4			¶97vii0275	
EIDC	VII	02 17 58 27.7	42.7N	139.9E	0	3.4b,3.5L				
NEIC	VII	02 17 58 30.4	42.51N	139.69E	33					
NEIC	Single network solution.									
ISC	**VII**	**02 22 33 31.2**±.78	**41.05N**±.059	**143.3E**±.11	**58**±52			**24**	**1-4**	
JMA	VII	02 22 33 30.9±.1	41.04N±.01	143.31E±.02	58	3.0			¶97vii0312	
ISC	**VII**	**02 22 34 28**±1.3	**41.06N**±.080	**143.3E**±.14	**70**±53			**21**	**1-3**	
JMA	VII	02 22 34 28.2±.2	41.09N±.01	143.28E±.03	71				¶97vii0313	
JMA	**VII**	**02 23 08 24.8**±.5	**42.43N**±.01	**139.12E**±.05	**8**±5	**2.9**			¶97vii0317	
ISC	**VII**	**03 03 14 19.4**±.79	**42.14N**±.055	**144.18E**±.093	**70**±20			**38**	**1-6**	
JMA	VII	03 03 14 20.4±.3	42.26N±.02	144.09E±.02	69±4				¶97vii0348	
ISC	**VII**	**03 04 18 11.8**±.56	**41.37N**±.053	**143.74E**±.096	**52**±41			**39**	**1-7**	
JMA	VII	03 04 18 11.7±.2	41.39N±.01	143.68E±.02	47±5	3.6			¶97vii0355	
ISC	**VII**	**03 08 45 59.4**±.72	**41.53N**±.063	**141.8E**±.14	**60**			**13**	**1-2**	
JMA	VII	03 08 45 59.1±.1	41.51N±.01	141.83E±.02	60	2.4			¶97vii0379	
ISC	**VII**	**03 09 14 00**±3.8	**42.9N**±.12	**143.8E**±.17	**118**±39			**15**	**0-4**	
JMA	VII	03 09 14 00.3±.2	42.92N±.01	143.77E±.02	114±2				¶97vii0382	
ISC	**VII**	**03 10 25 47**±3.1	**43.63N**±.091	**140.2E**±.21	**4**±17			**13**	**0-2**	
JMA	VII	03 10 25 47.8±.2	43.60N±.01	140.28E±.02	9±2	3.3			¶97vii0394	
ISC	**VII**	**03 13 53 39.2**±.45	**41.14N**±.035	**142.88E**±.075	**25**			**38**	**1-4**	
JMA	VII	03 13 53 38.6±.1	41.15N±.01	142.79E±.01	25	3.3			¶97vii0417	
ISC	**VII**	**03 15 09 23**±5.9	**43.6N**±.19	**145.0E**±.28	**144**±54			**14**	**0-3**	
JMA	VII	03 15 09 23.5±.1	43.55N±.02	144.90E±.02	138				¶97vii0421	
ISC	**VII**	**04 04 15 26**±5.5	**42.8N**±.24	**143.4E**±.80	**98**±58			**9**	**0-2**	
JMA	VII	04 04 15 25.1±.5	42.75N±.03	143.51E±.05	106±5				¶97vii0493	
ISC	**VII**	**04 07 40 18**±2.7	**42.0N**±.17	**142.1E**±.10	**81**±35			**12**	**1-3**	
JMA	VII	04 07 40 18.8±.2	41.97N±.01	142.05E±.01	73±3				¶97vii0518	
ISC	**VII**	**04 09 30 48**±2.7	**42.8N**±.15	**145.1E**±.22	**72**±31			**10**	**0-2**	
JMA	VII	04 09 30 47.4±.3	42.79N±.02	145.09E±.03	75±4				¶97vii0532	
ISC	**VII**	**04 11 47 47**±2.4	**41.1N**±.23	**140.7E**±.22	**124**			**12**	**0-2**	
JMA	VII	04 11 47 47.5±.4	41.10N±.03	140.74E±.04	124±4				¶97vii0552	
ISC	**VII**	**04 14 50 14.8**±.63	**42.41N**±.029	**144.39E**±.090	**69**±6.5	**3.9b**		**72**	**1-70**	
JMA	VII	04 14 50 16.2±.2	42.54N±.01	144.28E±.01	64±3	3.9			¶97vii0577	
NEIC	VII	04 14 50 17.6	42.50N	143.97E	87	4.0b				
EIDC	VII	04 14 50 18.0	42.5N	144.1E	74	3.6b				
JMA	Felt I=II J1									
NEIC	Less reliable solution.									
ISC	**VII**	**04 19 04 44**±4.1	**45.5N**±.30	**142.7E**±.16	**336**±27			**45**	**1-9**	
JMA	VII	04 19 04 46.0±.5	45.49N±.03	142.68E±.04	316±4				¶97vii0606	
ISC	**VII**	**04 19 40 05**±1.0	**42.83N**±.062	**144.28E**±.097	**116**±15			**39**	**0-6**	
JMA	VII	04 19 40 07.0±.2	42.90N±.01	144.17E±.02	96±3				¶97vii0609	
ISC	**VII**	**05 02 16 12**±1.9	**44.7N**±.14	**144.2E**±.13	**10**			**11**	**1-2**	
JMA	VII	05 02 16 11.8±.3	44.70N±.01	144.20E±.01	10±4	3.0			¶97vii0661	
ISC	**VII**	**05 05 40 37**±5.3	**42.5N**±.37	**142.3E**±.90	**134**			**6**	**0-3**	
JMA	VII	05 05 40 33.5±.3	42.51N±.03	141.83E±.05	134				¶97vii0685	
ISC	**VII**	**05 06 37 48**±1.5	**41.35N**±.037	**143.11E**±.084	**17**±17			**37**	**1-5**	
JMA	VII	05 06 37 48.1±.1	41.34N±.01	143.03E±.02	27	3.3			¶97vii0693	
ISC	**VII**	**05 12 54 02.6**±.32	**41.95N**±.027	**142.87E**±.058	**65**±6.0	**3.7b**		**60**	**0-70**	
EIDC	VII	05 12 53 59.1	42.5N	142.6E	0	3.9b,3.1L			¶97vii0731	
NEIC	VII	05 12 54 01.0	42.36N	142.84E	33					
JMA	VII	05 12 54 02.6±.1	41.94N±.01	142.83E±.01	51±2	3.8				
NEIC	Single network solution.									
ISC	**VII**	**05 22 21 14.8**±.88	**42.5N**±.18	**142.0E**±.18	**126**	3.7b		**10**	**1-59**	
JMA	VII	05 22 21 14.8±.1	42.54N±.03	142.08E±.03	126				¶97vii0799	
ISC	**VII**	**06 01 41 15**±3.6	**43.2N**±.14	**145.7E**±.57	**30**±26			**13**	**0-4**	
JMA	VII	06 01 41 14.6±.4	43.08N±.02	145.73E±.04	31±4	3.0			¶97vii0819	
ISC	**VII**	**06 03 00 03**±1.3	**43.4N**±.18	**145.3E**±.22	**80**			**7**	**0-2**	
JMA	VII	06 03 00 02.6±.3	43.39N±.01	145.29E±.02	80±3				¶97vii0831	
ISC	**VII**	**06 05 51 57**±3.2	**44.7N**±.18	**144.1E**±.18	**263**±24			**37**	**1-7**	
JMA	VII	06 05 51 59.9±.3	44.58N±.02	144.02E±.02	234±3				¶97vii0843	
ISC	**VII**	**06 05 53 45**±3.5	**42.8N**±.13	**143.2E**±.17	**121**±37			**13**	**0-2**	
JMA	VII	06 05 53 45.7±.4	42.78N±.02	143.17E±.03	112±4				¶97vii0844	
ISC	**VII**	**06 07 09 18**±1.2	**42.17N**±.064	**145.0E**±.19	**49**			**18**	**1-5**	
JMA	VII	06 07 09 18.0±.3	42.21N±.02	144.98E±.04	49	2.9			¶97vii0852	
ISC	**VII**	**06 11 28 44**±3.3	**42.8N**±.15	**144.4E**±.15	**103**±33			**11**	**0-1**	
JMA	VII	06 11 28 44.2±.2	42.85N±.02	144.43E±.02	96±3				¶97vii0877	
JMA	**VII**	**06 12 03 47.8**±.5	**42.64N**±.05	**141.91E**±.07	**114**				¶97vii0880	
ISC	**VII**	**06 12 33 03.1**±.75	**41.73N**±.039	**141.55E**±.090	**77**±21			**33**	**0-4**	
JMA	VII	06 12 33 02.8±.2	41.72N±.01	141.48E±.02	83±3				¶97vii0884	
ISC	**VII**	**06 14 23 32**±1.7	**42.08N**±.072	**140.7E**±.15	**154**±19			**30**	**0-5**	
JMA	VII	06 14 23 33.3±.2	42.08N±.01	140.80E±.01	140±3				¶97vii0891	
ISC	**VII**	**06 17 20 57**±1.1	**42.59N**±.080	**143.54E**±.089	**61**±16			**19**	**0-2**	
JMA	VII	06 17 20 57.2±.2	42.57N±.01	143.53E±.01	62±3				¶97vii0910	
ISC	**VII**	**06 17 57 22**±5.4	**43.8N**±.23	**144.8E**±.24	**127**±48			**11**	**0-2**	
JMA	VII	06 17 57 22.0±.4	43.76N±.02	144.80E±.02	122±4				¶97vii0916	
ISC	**VII**	**07 04 50 30**±1.6	**43.4N**±.22	**143.5E**±.41	**128**			**5**	**0-1**	
JMA	VII	07 04 50 29.8±.5	43.43N±.02	143.51E±.04	128±5				¶97vii0994	
ISC	**VII**	**07 07 48 41**±1.3	**44.64N**±.091	**144.18E**±.095	**3**			**13**	**1-2**	
JMA	VII	07 07 48 40.8±.4	44.68N±.02	144.20E±.02	3±4	3.2			¶97vii1012	
ISC	**VII**	**07 11 16 50**±4.8	**42.8N**±.16	**139.1E**±.43	**23**±17			**10**	**1-2**	
JMA	VII	07 11 16 51.6±.4	42.73N±.02	139.27E±.04	29±4	3.2			¶97vii1030	
ISC	**VII**	**07 12 50 03**±2.9	**42.53N**±.098	**139.6E**±.31	**209**±21			**30**	**1-5**	
JMA	VII	07 12 50 02.8±.6	42.52N±.02	139.53E±.05	208±5				¶97vii1043	
ISC	**VII**	**07 13 07 32**±4.6	**43.0N**±.19	**145.3E**±.28	**85**±38			**9**	**0-2**	
JMA	VII	07 13 07 32.1±.1	43.03N±.01	145.27E±.01	84±2				¶97vii1046	
ISC	**VII**	**07 18 26 25**±1.2	**41.75N**±.037	**143.76E**±.080	**18**±13			**40**	**1-5**	
JMA	VII	07 18 26 25.8±.4	41.79N±.03	143.69E±.02	34±4	3.3			¶97vii1074	
ISC	**VII**	**07 18 58 05**±8.7	**42.0N**±.16	**139.2E**±.76	**14**			**7**	**0-1**	
JMA	VII	07 18 58 04.8±.4	41.98N±.01	139.22E±.03	14±2	2.9			¶97vii1076	
ISC	**VII**	**08 15 13 21**±1.6	**41.49N**±.047	**140.8E**±.15	**153**±19			**32**	**0-4**	
JMA	VII	08 15 13 22.5±.2	41.47N±.01	140.79E±.01	140±2				¶97vii1206	
ISC	**VII**	**08 21 22 52**±4.2	**43.0N**±.13	**143.9E**±.17	**88**±44			**10**	**0-1**	
JMA	VII	08 21 22 52.6±.2	42.98N±.01	143.86E±.01	82±3				¶97vii1236	
ISC	**VII**	**08 22 23 26**±2.6	**41.9N**±.15	**141.3E**±.92	**100**			**8**	**0-2**	
JMA	VII	08 22 23 25.7±.3	41.88N±.01	141.26E±.02	100±3				¶97vii1242	
ISC	**VII**	**08 22 37 15**±1.0	**41.91N**±.040	**139.37E**±.086	**17**±8.6	3.6b		**33**	**0-62**	
JMA	VII	08 22 37 14.8±.2	41.92N±.01	139.33E±.02	22±2	3.6			¶97vii1244	
EIDC	VII	08 22 37 18.2	41.8N	139.6E	29	3.3b,4.0L				
ISC	**VII**	**09 01 22 59**±3.3	**41.3N**±.11	**142.4E**±.44	**61**			**11**	**1-2**	
JMA	VII	09 01 22 59.1±.1	41.31N±.01	142.38E±.02	61				¶97vii1267	
ISC	**VII**	**09 06 11 45**±2.6	**43.7N**±.34	**145.8E**±.30	**127**			**8**	**0-3**	
JMA	VII	09 06 11 45.1±.4	43.71N±.04	145.78E±.03	127±3				¶97vii1289	
JMA	**VII**	**09 06 13 00.9**±.1	**42.98N**±.02	**143.19E**±.05	**119**				¶97vii1290	
ISC	**VII**	**09 14 32 02.1**±.92	**41.51N**±.059	**144.3E**±.12	**70**			**24**	**1-3**	
JMA	VII	09 14 32 02.2±.1	41.53N±.01	144.25E±.02	70				¶97vii1354	
ISC	**VII**	**09 15 45 47.4**±.35	**42.43N**±.041	**142.96E**±.080	**112**			**36**	**0-6**	
JMA	VII	09 15 45 47.7±.2	42.49N±.01	142.92E±.01	112±3				¶97vii1360	
ISC	**VII**	**09 19 45 53**±1.2	**42.22N**±.040	**142.36E**±.056	**13**±10			**28**	**0-3**	
JMA	VII	09 19 45 53.6±.1	42.21N±.01	142.36E±.01	21±3	2.8			¶97vii1387	
ISC	**VII**	**09 20 55 41**±1.3	**42.85N**±.058	**145.3E**±.14	**74**±19			**38**	**0-7**	
JMA	VII	09 20 55 43.1±.1	42.95N±.01	145.07E±.01	60±2	3.2			¶97vii1395	
ISC	**VII**	**10 00 34 31**±1.4	**43.4N**±.36	**145.2E**±.26	**120**			**5**	**0-2**	
JMA	VII	10 00 34 30.8±.2	43.34N±.03	145.23E±.02	120±2				¶97vii1418	
ISC	**VII**	**10 02 44 20**±1.1	**43.3N**±.15	**143.3E**±.30	**118**			**6**	**0-1**	
JMA	VII	10 02 44 19.7±.4	43.28N±.02	143.33E±.03	118±4				¶97vii1434	
ISC	**VII**	**10 04 36 42**±2.2	**41.90N**±.091	**139.2E**±.22	**17**±17			**13**	**0-3**	
JMA	VII	10 04 36 42.4±.4	41.91N±.01	139.27E±.03	18±3	2.9			¶97vii1450	
ISC	**VII**	**10 04 42 19**±1.1	**43.1N**±.25	**143.8E**±.29	**90**			**6**	**0-1**	
JMA	VII	10 04 42 18.6±.1	43.08N±.02	143.80E±.03	90				¶97vii1451	
ISC	**VII**	**10 05 15 58**±1.3	**42.8N**±.30	**143.2E**±.23	**119**			**8**	**0-2**	
JMA	VII	10 05 15 58.3±.1	42.82N±.04	143.17E±.02	119				¶97vii1456	
ISC	**VII**	**10 07 58 42**±1.3	**43.5N**±.23	**144.6E**±.34	**149**			**7**	**0-1**	
JMA	VII	10 07 58 42.2±.2	43.52N±.04	144.58E±.04	149				¶97vii1472	
ISC	**VII**	**10 09 46 37**±1.4	**42.72N**±.085	**142.68E**±.098	**139**±19			**26**	**0-4**	
JMA	VII	10 09 46 38.7±.3	42.76N±.02	142.64E±.02	119±3				¶97vii1493	
ISC	**VII**	**10 11 24 17.2**±.68	**42.41N**±.049	**144.26E**±.091	**54**			**27**	**1-5**	
JMA	VII	10 11 24 17.5±.2	42.46N±.02	144.19E±.02	54±4	2.9			¶97vii1504	
ISC	**VII**	**10 15 43 18**±7.7	**41.7N**±.40	**140.1E**±.81	**213**			**12**	**2-4**	
JMA	VII	10 15 43 18.8±.5	41.73N±.04	140.12E±.06	213				¶97vii1529	
ISC	**VII**	**10 20 38 22**±2.4	**41.2N**±.25	**141.7E**±.69	**72**±46	3.3b		**7**	**1-60**	
JMA	VII	10 20 38 15.6±.3	41.58N±.02	141.86E±.04	102				¶97vii1564	
JMA	**VII**	**10 23 56 01.5**±.4	**42.29N**±.01	**139.29E**±.04	**17**±4	**3.0**			¶97vii1592	
ISC	**VII**	**11 09 27 15**±1.2	**42.78N**±.066	**142.26E**±.074	**124**±17			**31**	**0-4**	
JMA	VII	11 09 27 16.7±.2	42.80N±.01	142.24E±.01	106±3				¶97vii1655	
ISC	**VII**	**11 13 27 36**±5.2	**43.1N**±.18	**145.5E**±.40	**61**±46			**11**	**0-2**	
JMA	VII	11 13 27 35.9±.2	43.12N±.01	145.55E±.02	62±2				¶97vii1689	

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**11 14 02 01**±1.8	**43.9N**±.11	**141.2E**±.13	**243**±16		**42**	**0-7**
JMA	VII	11 14 02 02.8±.2	43.89N±.01	141.20E±.02	228±3			¶97vii1691
ISC	**VII**	**11 19 13 31**±2.2	**43.8N**±.29	**145.5E**±.28	**133**		**9**	**0-3**
JMA	VII	11 19 13 30.9±.3	43.73N±.03	145.53E±.03	133±3			¶97vii1720
ISC	**VII**	**11 20 26 06.8**±.65	**41.22N**±.042	**143.62E**±.092	**40**		**31**	**1-5**
JMA	VII	11 20 26 06.1±.1	41.22N±.01	143.60E±.01	40	2.9		¶97vii1724
ISC	**VII**	**12 16 36 03**±3.4	**42.6N**±.16	**140.7E**±.33	**159**±35		**17**	**1-4**
JMA	VII	12 16 36 04.3±.3	42.58N±.02	140.82E±.04	145			¶97vii1838
ISC	**VII**	**12 16 38 37**±1.9	**44.7N**±.14	**144.2E**±.12	**15**		**13**	**1-2**
JMA	VII	12 16 38 36.6±.2	44.74N±.01	144.20E±.01	15±3	3.1		¶97vii1839
ISC	**VII**	**13 00 42 30.2**±.58	**41.08N**±.042	**143.38E**±.089	**54**		**35**	**1-4**
JMA	VII	13 00 42 29.7±.1	41.06N±.01	143.41E±.01	54	3.1		¶97vii1897
ISC	**VII**	**13 11 12 07**±1.9	**41.1N**±.21	**140.2E**±.24	**168**		**14**	**1-3**
JMA	VII	13 11 12 07.6±.3	41.03N±.03	140.18E±.03	168			¶97vii1961
ISC	**VII**	**13 11 46 26**±5.7	**43.4N**±.16	**144.6E**±.22	**137**±57		**10**	**0-2**
JMA	VII	13 11 46 26.5±.4	43.39N±.02	144.56E±.02	130±4			¶97vii1966
ISC	**VII**	**13 14 53 04**±4.7	**43.2N**±.10	**143.2E**±.23	**88**±52		**9**	**0-1**
JMA	VII	13 14 53 01.0±.1	43.17N±.03	143.29E±.04	122			¶97vii1981
ISC	**VII**	**13 15 05 23**±1.1	**41.87N**±.033	**142.34E**±.057	**31**±13	3.5b	**41**	**0-59**
JMA	VII	13 15 05 22.4±.0	41.87N±.01	142.31E±.01	45±3	3.0		¶97vii1984
ISC	**VII**	**13 23 57 24**±1.1	**43.0N**±.14	**143.6E**±.62	**107**		**5**	**0-1**
JMA	VII	13 23 57 23.7±.1	43.02N±.01	143.61E±.06	107			¶97vii2045
ISC	**VII**	**14 04 49 21**±1.5	**43.24N**±.093	**143.41E**±.099	**149**±16		**33**	**0-6**
JMA	VII	14 04 49 23.2±.2	43.27N±.01	143.36E±.02	126±3			¶97vii2068
ISC	**VII**	**14 05 20 42**±1.6	**42.85N**±.071	**145.7E**±.18	**62**±25		**32**	**1-7**
JMA	VII	14 05 20 45.1±.3	42.96N±.02	145.41E±.03	46±5	3.7		¶97vii2073
ISC	**VII**	**14 12 01 31.4**±.76	**41.06N**±.036	**142.07E**±.081	**78**±25		**33**	**1-4**
JMA	VII	14 12 01 31.9±.1	41.05N±.00	142.01E±.01	70±4			¶97vii2125
ISC	**VII**	**14 17 00 04.3**±.91	**42.17N**±.084	**142.89E**±.084	**62**±15		**21**	**0-2**
JMA	VII	14 17 00 04.2±.1	42.16N±.01	142.87E±.01	63±2			¶97vii2180
ISC	**VII**	**14 17 42 55.7**±.85	**42.22N**±.069	**144.5E**±.11	**49**±48		**26**	**1-4**
JMA	VII	14 17 42 56.9±.1	42.35N±.01	144.35E±.01	55±3	2.8		¶97vii2182
ISC	**VII**	**15 05 52 00.5**±.46	**41.92N**±.035	**143.29E**±.072	**57**±15		**43**	**0-5**
JMA	VII	15 05 52 00.5±.1	41.93N±.01	143.27E±.01	56±2	3.5		¶97vii2260
ISC	**VII**	**16 08 03 39**±3.4	**43.8N**±.23	**143.4E**±.18	**205**±28		**21**	**0-6**
JMA	VII	16 08 03 42.5±.5	43.74N±.03	143.42E±.03	172±4			¶97vii2407
ISC	**VII**	**16 10 28 30**±1.9	**42.68N**±.084	**142.2E**±.10	**102**±26		**19**	**1-3**
JMA	VII	16 10 28 29.9±.2	42.67N±.01	142.24E±.01	98±3			¶97vii2423
ISC	**VII**	**16 13 30 08**±8.9	**41.4N**±.65	**144.3E**±.53	**79**		**7**	**1-2**
JMA	VII	16 13 30 09.3±.7	41.58N±.05	144.24E±.06	79			¶97vii2446
ISC	**VII**	**16 13 31 42**±2.1	**41.5N**±.13	**144.2E**±.26	**73**		**10**	**1-3**
JMA	VII	16 13 31 42.3±.5	41.58N±.04	144.24E±.04	73			¶97vii2448
ISC	**VII**	**16 21 13 34.7**±.83	**41.61N**±.037	**141.96E**±.078	**120**±16		**39**	**1-5**
JMA	VII	16 21 13 35.8±.1	41.60N±.01	141.93E±.01	103±2			¶97vii2495
ISC	**VII**	**17 00 22 18**±2.6	**42.5N**±.12	**142.8E**±.14	**73**±33		**9**	**0-1**
JMA	VII	17 00 22 17.7±.2	42.47N±.01	142.77E±.01	71±3			¶97vii2524
ISC	**VII**	**17 04 26 54**±4.4	**43.1N**±.15	**145.7E**±.39	**64**±37		**12**	**0-4**
JMA	VII	17 04 26 55.3±.3	43.10N±.02	145.57E±.03	55±3	2.9		¶97vii2545
ISC	**VII**	**17 06 22 08**±7.9	**45.5N**±.58	**142.3E**±.28	**330**±45		**27**	**0-8**
JMA	VII	17 06 22 06.5±.4	45.64N±.03	142.26E±.04	338±3			¶97vii2555
ISC	**VII**	**17 08 33 14**±1.8	**42.4N**±.13	**143.8E**±.14	**98**±21		**14**	**0-2**
JMA	VII	17 08 33 15.2±.2	42.50N±.02	143.82E±.02	88±3			¶97vii2573
ISC	**VII**	**17 08 44 05**±1.0	**41.51N**±.060	**142.05E**±.093	**66**±30		**18**	**1-3**
JMA	VII	17 08 44 04.6±.1	41.50N±.01	142.02E±.01	65±4			¶97vii2574
ISC	**VII**	**17 10 09 00.5**±.45	**43.34N**±.032	**145.20E**±.077	**143**±4.6	**4.1b**	**90**	**0-121**
NEIC	VII	17 10 09 00.5	43.51N	144.95E	138	4.4b		¶97vii2581
JMA	VII	17 10 09 02.3±.2	43.40N±.01	145.17E±.02	125±2	4.1		
EIDC	VII	17 10 09 03.2	43.5N	144.9E	147	3.8b		
NEIC	Less reliable solution.							
JMA	Felt I=II J1							
ISC	**VII**	**17 13 20 03.0**±.83	**42.24N**±.037	**141.28E**±.081	**138**±12		**44**	**0-5**
JMA	VII	17 13 20 03.8±.2	42.27N±.01	141.28E±.01	130±2			¶97vii2599
ISC	**VII**	**17 15 44 01**±1.8	**42.8N**±.10	**144.4E**±.14	**107**±21		**19**	**0-4**
JMA	VII	17 15 44 02.4±.3	42.82N±.02	144.36E±.02	95±3			¶97vii2611
JMA	**VII**	**17 16 48 03.4**±.2	**43.35N**±.01	**145.13E**±.01	**82**±2			¶97vii2616
ISC	**VII**	**17 17 28 53**±1.2	**42.99N**±.072	**143.95E**±.094	**143**±15		**41**	**0-7**
JMA	VII	17 17 28 55.2±.3	43.01N±.01	143.89E±.02	122±3			¶97vii2619
ISC	**VII**	**17 18 58 06.6**±.64	**43.2N**±.12	**144.0E**±.17	**130**		**10**	**0-1**
JMA	VII	17 18 58 06.5±.4	43.14N±.02	144.02E±.03	130±4			¶97vii2630
ISC	**VII**	**17 19 38 22**±1.3	**43.17N**±.073	**144.3E**±.10	**106**±15		**33**	**0-7**
JMA	VII	17 19 38 23.4±.2	43.18N±.01	144.23E±.02	94±3			¶97vii2634
ISC	**VII**	**18 08 53 19**±6.9	**43.6N**±.25	**145.5E**±.39	**97**±58		**9**	**0-2**
JMA	VII	18 08 53 20.5±.3	43.55N±.02	145.44E±.02	88±3			¶97vii2716
ISC	**VII**	**18 20 09 03**±5.4	**41.0N**±.97	**140.3E**±.69	**158**		**7**	**0-2**
JMA	VII	18 20 09 03.2±.2	41.03N±.03	140.39E±.04	158			¶97vii2784
ISC	Poorly determined							
JMA	**VII**	**18 21 28 51.3**±.5	**41.00N**±.05	**144.72E**±.06	**0**	**2.8**		¶97vii2791
ISC	**VII**	**18 23 49 30.4**±.90	**43.2N**±.28	**144.5E**±.29	**127**		**6**	**0-1**
JMA	VII	18 23 49 30.2±.5	43.15N±.04	144.54E±.04	127±4			¶97vii2802
ISC	**VII**	**19 01 10 44**±1.9	**43.5N**±.47	**145.2E**±.34	**126**		**4**	**0-1**
JMA	VII	19 01 10 44.2±.1	43.53N±.01	145.24E±.01	126±1			¶97vii2809
ISC	Poorly determined							
ISC	**VII**	**19 13 17 21**±1.0	**43.0N**±.41	**144.4E**±.33	**122**		**8**	**0-1**
JMA	VII	19 13 17 21.3±.4	43.01N±.04	144.41E±.04	122±4			¶97vii2880
ISC	**VII**	**19 13 41 29**±1.2	**42.48N**±.080	**143.4E**±.12	**113**±17		**23**	**0-4**
JMA	VII	19 13 41 29.7±.2	42.50N±.02	143.38E±.02	103±3			¶97vii2882
ISC	**VII**	**19 18 13 00**±1.3	**41.16N**±.053	**141.8E**±.11	**90**±25		**21**	**1-4**
JMA	VII	19 18 13 00.5±.1	41.15N±.00	141.73E±.01	76±3			¶97vii2933
ISC	**VII**	**19 22 23 45**±4.6	**43.4N**±.18	**143.9E**±.19	**128**±43		**9**	**0-1**
JMA	VII	19 22 23 45.5±.3	43.42N±.01	143.86E±.02	120±3			¶97vii2964
ISC	**VII**	**20 05 03 17**±1.2	**42.53N**±.070	**141.2E**±.11	**150**±15		**40**	**0-6**
JMA	VII	20 05 03 19.0±.2	42.54N±.01	141.27E±.01	130±2			¶97vii3018
ISC	**VII**	**20 05 13 37.1**±.88	**43.4N**±.20	**143.2E**±.27	**145**		**10**	**0-2**
JMA	VII	20 05 13 37.3±.4	43.39N±.02	143.18E±.03	145±4			¶97vii3020
ISC	**VII**	**20 17 08 15.2**±.99	**42.32N**±.049	**145.1E**±.12	**45**		**26**	**1-5**
JMA	VII	20 17 08 17.5±.2	42.50N±.02	144.83E±.02	45±4	2.9		¶97vii3123
ISC	**VII**	**21 03 44 57**±2.5	**42.7N**±.11	**139.1E**±.25	**223**±15		**42**	**1-6**
JMA	VII	21 03 44 54.5±.5	42.85N±.02	138.88E±.05	231±4			¶97vii3184
ISC	**VII**	**21 06 49 44**±1.6	**42.8N**±.13	**144.8E**±.14	**48**		**11**	**0-2**
JMA	VII	21 06 49 44.1±.2	42.78N±.02	144.81E±.02	48±3	2.9		¶97vii3210
ISC	**VII**	**21 12 04 37.4**±.80	**43.4N**±.13	**144.5E**±.17	**134**		**10**	**0-2**
JMA	VII	21 12 04 37.4±.4	43.37N±.02	144.55E±.03	134±4			¶97vii3239
ISC	**VII**	**21 12 20 23**±4.8	**42.5N**±.17	**143.0E**±.24	**96**±44		**13**	**0-2**
JMA	VII	21 12 20 22.7±.3	42.52N±.01	142.94E±.01	100±2			¶97vii3243
ISC	**VII**	**21 14 51 37**±4.8	**43.0N**±.17	**145.6E**±.39	**55**±50		**11**	**0-2**
JMA	VII	21 14 51 36.5±.1	42.93N±.01	145.65E±.01	64±2			¶97vii3251
ISC	**VII**	**21 22 51 49.2**±.70	**42.55N**±.039	**144.70E**±.094	**62**±12	2.9b	**38**	**0-70**
JMA	VII	21 22 51 50.3±.2	42.62N±.01	144.59E±.02	51±3	3.8		¶97vii3295
ISC	**VII**	**22 00 43 17.1**±.54	**41.42N**±.051	**143.09E**±.097	**47**		**25**	**1-3**
JMA	VII	22 00 43 16.7±.1	41.40N±.01	143.07E±.02	47	2.9		¶97vii3303
ISC	**VII**	**22 01 01 04**±5.2	**42.8N**±.55	**143.7E**±.49	**126**±49		**6**	**0-2**
JMA	VII	22 01 01 03.5±.1	42.82N±.04	143.69E±.03	129			¶97vii3305
ISC	**VII**	**22 12 02 58**±1.3	**41.62N**±.049	**141.3E**±.11	**114**±19		**28**	**0-4**
JMA	VII	22 12 02 58.6±.1	41.61N±.01	141.25E±.01	103±2			¶97vii3372
ISC	**VII**	**22 22 04 40.1**±.50	**42.49N**±.026	**145.01E**±.064	**75**±4.5	**4.3b**	**135**	**1-94**
NEIC	VII	22 22 04 40.4	42.76N	144.85E	69	4.6b		¶97vii3437
BJI	VII	22 22 04 40.7	43.48N	145.10E	63	4.5b		
JMA	VII	22 22 04 41.4±.2	42.65N±.01	144.94E±.02	70±3	4.3		
MOS	VII	22 22 04 41.7	42.5N	144.8E	90	4.7b		
EIDC	VII	22 22 04 42.4	42.8N	144.8E	69	4.0b		
JMA	Felt I=II J1							
ISC	**VII**	**22 23 19 28.7**±.44	**41.86N**±.033	**142.39E**±.056	**52**±21		**38**	**0-4**
JMA	VII	22 23 19 28.5±.0	41.86N±.01	142.37E±.01	54±2	3.5		¶97vii3450
ISC	**VII**	**23 03 43 12**±2.4	**42.63N**±.083	**139.4E**±.18	**11**±11		**13**	**0-60**
JMA	VII	23 03 43 10.9±.5	42.71N±.02	139.22E±.04	28	2.9		¶97vii3478
ISC	**VII**	**23 07 05 08**±1.1	**41.26N**±.058	**144.7E**±.14	**64**		**24**	**1-5**
JMA	VII	23 07 05 08.4±.2	41.30N±.01	144.58E±.03	64			¶97vii3492
ISC	**VII**	**23 09 54 29.2**±.82	**43.4N**±.13	**144.5E**±.17	**134**		**9**	**0-2**
JMA	VII	23 09 54 29.0±.4	43.29N±.02	144.48E±.02	134±3			¶97vii3510
ISC	**VII**	**23 13 07 04**±3.5	**43.5N**±.13	**145.3E**±.25	**92**±30		**12**	**0-2**
JMA	VII	23 13 07 03.7±.2	43.47N±.01	145.32E±.02	92±2			¶97vii3532
ISC	**VII**	**23 21 49 54.8**±.71	**42.36N**±.039	**142.95E**±.080	**118**±12		**39**	**0-6**
JMA	VII	23 21 49 56.1±.1	42.43N±.01	142.90E±.01	104			¶97vii3577
ISC	**VII**	**24 03 31 52**±3.7	**42.6N**±.13	**139.3E**±.33	**21**±16		**11**	**1-2**
JMA	VII	24 03 31 52.2±.4	42.62N±.01	139.30E±.04	32±4	2.8		¶97vii3603
ISC	**VII**	**24 08 13 49**±4.6	**42.7N**±.17	**144.0E**±.15	**112**±47		**13**	**0-2**
JMA	VII	24 08 13 49.9±.3	42.74N±.02	143.92E±.02	101±3			¶97vii3644
ISC	**VII**	**24 14 33 26.0**±.92	**42.66N**±.067	**144.19E**±.095	**74**±17		**22**	**0-4**
JMA	VII	24 14 33 27.1±.3	42.73N±.02	144.13E±.02	64±4			¶97vii3679
ISC	**VII**	**24 23 37 46**±1.7	**41.57N**±.071	**142.1E**±.11	**59**±59		**14**	**1-2**
JMA	VII	24 23 37 46.0±.1	41.55N±.01	142.06E±.02	62			¶97vii3740
ISC	**VII**	**25 00 46 52.7**±.30	**42.64N**±.034	**140.98E**±.069	**149**±4.0	**3.6b**	**59**	**0-87**
EIDC	VII	25 00 46 41.2	43.5N	140.7E	0	3.7b		¶97vii3745
JMA	VII	25 00 46 54.0±.1	42.65N±.00	141.00E±.01	135±1			
NEIC	VII	25 00 47 02.4	43.46N	140.77E	200	3.9b		
NEIC	Less reliable solution.							
ISC	**VII**	**25 09 55 35**±1.2	**41.57N**±.041	**140.6E**±.12	**143**±15		**34**	**0-4**
JMA	VII	25 09 55 35.3±.2	41.57N±.01	140.59E±.01	135±2			¶97vii3814
ISC	**VII**	**25 15 04 27**±4.1	**41.6N**±.50	**141.9E**±.16	**66**		**7**	**1-2**
JMA	VII	25 15 04 27.2±.3	41.57N±.03	141.86E±.01	66			¶97vii3836
ISC	Poorly determined							
ISC	**VII**	**25 23 54 06**±6.3	**44.0N**±.27	**145.2E**±.38	**171**±46		**11**	**1-4**
JMA	VII	25 23 54 09.9±.5	43.92N±.03	145.08E±.03	145±5			¶97vii3889
ISC	**VII**	**26 00 47 15**±5.6	**43.3N**±.30	**140.8E**±.34	**185**±47		**14**	**0-4**
JMA	VII	26 00 47 16.7±.5	43.21N±.03	140.96E±.03	174±5			¶97vii3894
ISC	**VII**	**26 04 00 21.5**±.50	**41.06N**±.033	**143.37E**±.076	**45**±10	**3.9b**,3.4s	**46**	**1-66**
EIDC	VII	26 04 00 00.2	38.5N	142.9E	0	4.0b,3.5L		¶97vii3910
JMA	VII	26 04 00 21.2±.1	41.07N±.01	143.37E±.01	62±5			
ISC	**VII**	**26 04 02 51**±1.3	**41.11N**±.094	**143.4E**±.15	**63**±56		**12**	**1-3**
JMA	VII	26 04 02 50.5±.2	41.09N±.01	143.36E±.02	68			¶97vii3912
ISC	**VII**	**26 05 26 07**±2.9	**42.8N**±.20	**145.2E**±.20	**44**±45		**10**	**0-2**
JMA	VII	26 05 26 07.1±.2	42.82N±.02	145.18E±.02	46±3	2.9		¶97vii3920
JMA	**VII**	**26 21 19 53.4**±.2	**42.97N**±.01	**139.69E**±.02	**27**±2	**2.8**		¶97vii4013
ISC	**VII**	**27 01 43 46**±3.6	**42.8N**±.12	**142.8E**±.14	**124**±39		**12**	**0-2**
JMA	VII	27 01 43 47.2±.4	42.78N±.02	142.76E±.02	115±4			¶97vii4040
ISC	**VII**	**27 02 45 22**±4.1	**43.2N**±.14	**144.7E**±.16	**89**±42		**9**	**0-1**
JMA	VII	27 02 45 23.0±.2	43.18N±.01	144.64E±.01	82±3			¶97vii4049
ISC	**VII**	**27 12 27 47**±4.7	**43.2N**±.12	**145.7E**±.42	**77**±34		**15**	**0-4**
JMA	VII	27 12 27 47.2±.2	43.23N±.01	145.74E±.02	78±2			¶97vii4108
ISC	**VII**	**27 18 51 18.9**±.96	**42.56N**±.066	**142.83E**±.072	**88**±15		**23**	**0-2**
JMA	VII	27 18 51 19.1±.2	42.58N±.01	142.81E±.01	82±3			¶97vii4153
ISC	**VII**	**27 21 13 28**±1.4	**44.00N**±.052	**140.6E**±.11	**4**±11		**23**	**1-3**
JMA	VII	27 21 13 28.8±.2	43.99N±.01	140.60E±.01	17±3	3.2		¶97vii4162
ISC	**VII**	**27 21 32 30**±3.9	**42.7N**±.13	**142.9E**±.18	**100**±39		**13**	**0-2**
JMA	VII	27 21 32 29.5±.2	42.62N±.01	142.85E±.01	107±2			¶97vii4165
ISC	**VII**	**27 21 48 44**±4.7	**42.8N**±.16	**139.0E**±.41	**17**±17		**11**	**1-2**
JMA	VII	27 21 48 45.5±.3	42.80N±.01	139.11E±.03	27±4	3.1		¶97vii4166
JMA	**VII**	**28 02 59 05.2**±.2	**41.57N**±.02	**142.08E**±.01	**66**			¶97vii4197
ISC	**VII**	**28 04 03 02**±1.3	**41.36N**±.058	**142.1E**±.16	**65**±47		**18**	**1-3**
JMA	VII	28 04 03 02.2±.1	41.34N±.01	142.02E±.02	63			¶97vii4206
ISC	**VII**	**28 18 59 34.4**±.66	**42.26N**±.032	**140.79E**±.057	**5**±6.7		**32**	**0-4**
JMA	VII	28 18 59 34.7±.1	42.27N±.01	140.83E±.01	11±4	3.1		¶97vii4318
ISC	**VII**	**28 18 59 41.7**±.83	**42.28N**±.093	**140.78E**±.083	**10**		**11**	**0-4**
JMA	VII	28 18 59 41.5±.2	42.26N±.01	140.82E±.01	10±3	3.3		¶97vii4319
ISC	**VII**	**28 20 39 33**±1.3	**43.5N**±.18	**145.3E**±.21	**88**		**7**	**0-2**
JMA	VII	28 20 39 33.0±.2	43.50N±.01	145.35E±.01	88±2			¶97vii4324
ISC	**VII**	**29 15 19 41.5**±.63	**42.07N**±.049	**143.51E**±.075	**43**±20		**35**	**0-4**
JMA	VII	29 15 19 42.2±.4	42.17N±.03	143.43E±.02	46±4	2.9		¶97vii4446
ISC	**VII**	**29 17 41 52.1**±.30	**42.45N**±.033	**142.27E**±.061	**114**		**45**	**0-6**
JMA	VII	29 17 41 52.6±.1	42.51N±.01	142.24E±.01	114±2			¶97vii4459
ISC	**VII**	**29 20 34 34.4**±.69	**41.21N**±.033	**141.24E**±.088	**109**±13		**42**	**0-4**
JMA	VII	29 20 34 35.2±.1	41.20N±.00	141.18E±.01	100±2			¶97vii4478
ISC	**VII**	**29 22 28 46**±1.2	**42.55N**±.062	**142.94E**±.092	**130**±17		**29**	**0-4**
JMA	VII	29 22 28 47.8±.2	42.58N±.01	142.92E±.01	111±3			¶97vii4492
ISC	**VII**	**30 06 33 53**±3.3	**42.5N**±.18	**142.1E**±.17	**137**±37		**12**	**1-3**
JMA	VII	30 06 33 54.8±.4	42.47N±.02	142.10E±.02	122±4			¶97vii4545
ISC	**VII**	**30 12 49 00**±2.2	**41.92N**±.046	**139.2E**±.18	**12**±11		**26**	**0-4**
JMA	VII	30 12 48 59.4±.3	41.95N±.01	139.14E±.03	22±3	3.6		¶97vii4583
ISC	**VII**	**30 16 37 23**±4.6	**41.94N**±.095	**139.0E**±.34	**10**±17		**10**	**0-2**
JMA	VII	30 16 37 24.8±.4	41.95N±.01	139.13E±.03	17±3	2.9		¶97vii4607
ISC	**VII**	**30 17 30 28**±5.2	**43.3N**±.13	**145.3E**±.33	**105**±46		**12**	**0-2**
JMA	VII	30 17 30 28.2±.2	43.27N±.01	145.28E±.02	105±2			¶97vii4614
ISC	**VII**	**30 18 14 55.6**±.92	**42.62N**±.048	**141.49E**±.080	**154**±13		**47**	**0-6**
JMA	VII	30 18 14 56.8±.1	42.64N±.01	141.50E±.01	140±2			¶97vii4618
ISC	**VII**	**30 18 34 32**±3.2	**42.9N**±.21	**144.8E**±.20	**74**±33		**7**	**0-1**
JMA	VII	30 18 34 32.5±.3	42.90N±.02	144.75E±.02	73±3			¶97vii4621
ISC	**VII**	**30 23 02 39**±4.7	**41.93N**±.095	**139.0E**±.34	**10**±17		**11**	**0-2**
JMA	VII	30 23 02 40.6±.4	41.95N±.01	139.11E±.04	19±3	3.2		¶97vii4646
ISC	**VII**	**31 09 31 29.7**±.26	**44.40N**±.034	**142.53E**±.069	**252**±3.2	**3.9b**	**96**	**0-85**
MOS	VII	31 09 31 12.0	45.3N	142.8E	33	4.6b		¶97vii4712
BJI	VII	31 09 31 20.8	44.31N	143.38E	221	4.2b		
NEIC	VII	31 09 31 27.8	44.66N	142.41E	221	4.0b		
EIDC	VII	31 09 31 29.5	44.6N	142.5E	227	3.6b		
JMA	VII	31 09 31 30.4±.3	44.45N±.02	142.56E±.02	244±2			
ISC	**VII**	**31 09 35 46**±2.0	**41.14N**±.072	**139.3E**±.24	**17**±19		**11**	**1-2**
JMA	VII	31 09 35 45.7±.2	41.13N±.00	139.33E±.02	17±4	2.9		¶97vii4714
ISC	**VII**	**31 14 35 59**±2.8	**43.1N**±.26	**145.6E**±.32	**61**		**5**	**0-1**
JMA	VII	31 14 35 58.7±.4	43.13N±.02	145.57E±.02	61±4			¶97vii4745
ISC	Poorly determined							

ISC	**VII 31 19 50 26**±1.8	**41.09N**±.064	**141.6E**±.19	**73**±39		**11 1-2**	
JMA	VII 31 19 50 25.7±.2	41.07N±.01	141.64E±.03	72±4		¶97vii4781	
ISC	**VIII 01 17 35 26**±1.3	**42.29N**±.065	**141.24E**±.099	**129**±17		**32 0-4**	
JMA	VIII 01 17 35 27.3±.2	42.29N±.01	141.22E±.01	118±2		¶97viii0097	
ISC	**VIII 01 20 30 25**±2.4	**43.0N**±.13	**144.6E**±.15	**78**±27		**11 0-2**	
JMA	VIII 01 20 30 24.7±.2	43.01N±.01	144.52E±.01	74±3		¶97viii0109	
ISC	**VIII 01 22 22 16**±1.6	**42.9N**±.20	**143.5E**±.60	**80**		**5 0-1**	
JMA	VIII 01 22 22 16.4±.5	42.89N±.03	143.64E±.04	80±4		¶97viii0126	
ISC	Poorly determined						
ISC	**VIII 02 01 21 31.7**±.61	**41.57N**±.047	**142.92E**±.081	**50**±28		**27 0-3**	
JMA	VIII 02 01 21 31.4±.1	41.56N±.01	142.89E±.01	54±4	3.0	¶97viii0144	
ISC	**VIII 02 01 34 58**±3.0	**43.2N**±.18	**145.7E**±.31	**23**±15		**9 0-2**	
JMA	VIII 02 01 34 53.1±.2	43.12N±.01	146.20E±.02	46±2	3.0	¶97viii0146	
ISC	**VIII 02 02 43 08**±2.0	**42.63N**±.097	**141.3E**±.13	**154**±22		**24 0-4**	
JMA	VIII 02 02 43 09.2±.2	42.61N±.01	141.33E±.02	141±3		¶97viii0158	
ISC	**VIII 02 05 37 30**±4.9	**42.8N**±.18	**143.4E**±.28	**127**±46		**8 0-2**	
JMA	VIII 02 05 37 31.3±.1	42.78N±.04	143.36E±.04	115		¶97viii0177	
ISC	**VIII 02 10 05 24**±2.8	**43.8N**±.17	**142.4E**±.12	**222**±25		**36 0-6**	
JMA	VIII 02 10 05 25.6±.3	43.73N±.02	142.37E±.02	204±3		¶97viii0196	
ISC	**VIII 02 20 35 24**±2.1	**44.1N**±.18	**145.7E**±.25	**132**		**12 0-3**	
JMA	VIII 02 20 35 24.1±.4	44.04N±.03	145.76E±.04	132±4		¶97viii0256	
ISC	**VIII 03 06 20 28**±2.5	**41.84N**±.088	**139.3E**±.24	**18**±14		**11 0-2**	
JMA	VIII 03 06 20 28.5±.3	41.87N±.01	139.33E±.03	22±2	3.2	¶97viii0316	
ISC	**VIII 03 07 05 29**±1.7	**42.61N**±.052	**139.1E**±.20	**32**		**29 1-5**	
JMA	VIII 03 07 05 28.5±.4	42.63N±.01	139.19E±.04	32±4	3.7	¶97viii0326	
ISC	**VIII 03 10 59 13**±5.8	**42.9N**±.25	**145.6E**±.43	**68**±46		**9 0-2**	
JMA	VIII 03 10 59 13.6±.2	42.89N±.02	145.61E±.02	65±3		¶97viii0354	
ISC	**VIII 03 16 17 56.5**±.86	**41.79N**±.034	**142.67E**±.060	**28**±10		**36 0-4**	
JMA	VIII 03 16 17 56.3±.1	41.79N±.01	142.66E±.01	41±3	3.2	¶97viii0382	
ISC	**VIII 03 18 54 28**±1.6	**43.13N**±.072	**140.5E**±.14	**199**±16		**38 0-5**	
JMA	VIII 03 18 54 29.9±.3	43.14N±.01	140.53E±.02	181±3		¶97viii0399	
ISC	**VIII 04 12 17 50**±1.6	**42.59N**±.093	**144.7E**±.13	**69**±21		**31 0-6**	
JMA	VIII 04 12 17 51.1±.2	42.64N±.02	144.65E±.02	63±3		¶97viii0505	
ISC	**VIII 05 00 04 19**±2.6	**42.5N**±.14	**144.2E**±.14	**92**±26		**15 1-3**	
JMA	VIII 05 00 04 20.0±.2	42.49N±.02	144.14E±.02	85±3		¶97viii0582	
ISC	**VIII 05 01 10 50**±1.2	**43.54N**±.094	**146.0E**±.17	**134**±7.5	**4.0b**	**28 0-69**	
JMA	VIII 05 01 10 53.2±.2	43.57N±.01	145.73E±.02	110±2		¶97viii0590	
ISC	**VIII 05 02 42 03**±3.5	**41.7N**±.15	**141.5E**±.18	**150**±37		**15 0-4**	
JMA	VIII 05 02 42 06.1±.2	41.74N±.01	141.53E±.02	123±3		¶97viii0601	
ISC	**VIII 05 08 01 09**±2.1	**43.5N**±.17	**145.6E**±.29	**30**±19		**8 0-2**	
JMA	VIII 05 08 01 04.6±.5	43.54N±.02	145.92E±.04	67±4		¶97viii0633	
ISC	**VIII 05 13 42 18**±4.9	**43.2N**±.16	**144.8E**±.19	**86**±52		**8 0-1**	
JMA	VIII 05 13 42 18.9±.1	43.21N±.01	144.76E±.01	80±2		¶97viii0673	
ISC	**VIII 06 03 39 29**±1.1	**42.66N**±.056	**142.51E**±.085	**139**±16		**34 0-5**	
JMA	VIII 06 03 39 30.4±.2	42.69N±.01	142.50E±.01	129±3		¶97viii0753	
ISC	**VIII 06 21 04 50.7**±.56	**41.49N**±.034	**142.06E**±.062	**58**±27		**37 1-3**	
JMA	VIII 06 21 04 50.7±.1	41.48N±.01	142.02E±.01	62±4		¶97viii0840	
ISC	**VIII 06 21 50 53**±1.3	**43.3N**±.20	**145.3E**±.21	**101**		**7 0-2**	
JMA	VIII 06 21 50 53.5±.3	43.26N±.02	145.28E±.02	101±3		¶97viii0843	
ISC	**VIII 06 22 17 24**±4.8	**43.2N**±.18	**144.5E**±.19	**130**±46		**8 0-1**	
JMA	VIII 06 22 17 25.9±.4	43.16N±.02	144.48E±.02	113±4		¶97viii0846	
ISC	**VIII 07 05 25 48**±2.6	**42.6N**±.12	**141.6E**±.17	**101**±30		**15 0-2**	
JMA	VIII 07 05 25 47.8±.4	42.59N±.02	141.64E±.02	101±4		¶97viii0886	
ISC	**VIII 07 05 26 10**±1.1	**43.0N**±.17	**144.1E**±.20	**126**		**10 0-2**	
JMA	VIII 07 05 26 09.6±.5	42.92N±.03	144.09E±.03	126±4		¶97viii0887	
ISC	**VIII 07 09 36 33.4**±.56	**41.94N**±.042	**142.15E**±.061	**57**±22		**32 1-4**	
JMA	VIII 07 09 36 33.3±.1	41.93N±.01	142.14E±.01	58±2	3.0	¶97viii0918	
ISC	**VIII 07 12 35 08.2**±.84	**42.45N**±.073	**143.3E**±.10	**82**±14		**23 0-4**	
JMA	VIII 07 12 35 09.4±.2	42.53N±.01	143.20E±.01	69±2		¶97viii0939	
ISC	**VIII 07 21 32 42.5**±.72	**42.35N**±.036	**141.99E**±.052	**26**±9.0		**35 1-4**	
JMA	VIII 07 21 32 42.5±.0	42.36N±.01	141.99E±.01	42±2	2.8	¶97viii1004	
ISC	**VIII 08 00 16 20**±2.4	**43.8N**±.13	**143.5E**±.15	**198**±22		**26 0-5**	
JMA	VIII 08 00 16 23.0±.3	43.72N±.02	143.45E±.02	168±3		¶97viii1017	
ISC	**VIII 08 02 50 04**±4.3	**42.5N**±.16	**143.0E**±.22	**103**±40		**12 0-2**	
JMA	VIII 08 02 50 04.7±.2	42.50N±.01	143.04E±.02	99±2		¶97viii1046	
ISC	**VIII 08 05 38 58**±1.4	**42.93N**±.095	**143.7E**±.11	**113**±18		**21 0-5**	
JMA	VIII 08 05 38 59.2±.2	42.96N±.01	143.67E±.01	100±2		¶97viii1063	
ISC	**VIII 08 19 01 39**±2.5	**42.6N**±.13	**145.3E**±.18	**17**±15		**15 1-3**	
JMA	VIII 08 19 01 40.2±.3	42.59N±.02	145.29E±.03	39	2.9	¶97viii1153	
ISC	**VIII 09 03 19 46**±2.4	**44.3N**±.14	**142.4E**±.15	**252**±20		**39 0-7**	
JMA	VIII 09 03 19 49.1±.4	44.24N±.02	142.35E±.03	220±3		¶97viii1196	
ISC	**VIII 09 04 18 51**±3.9	**43.6N**±.68	**145.9E**±.41	**100**		**6 0-2**	
JMA	VIII 09 04 18 51.4±.2	43.54N±.03	145.94E±.02	100±2		¶97viii1202	
ISC	Poorly determined						
ISC	**VIII 09 11 43 25**±2.9	**42.9N**±.12	**144.3E**±.15	**105**±31		**12 0-1**	
JMA	VIII 09 11 43 25.3±.3	42.89N±.02	144.29E±.02	97±3		¶97viii1243	
ISC	**VIII 09 12 29 40**±1.6	**42.61N**±.074	**141.94E**±.096	**146**±20		**28 0-4**	
JMA	VIII 09 12 29 41.5±.2	42.62N±.01	141.94E±.01	129±2		¶97viii1249	
ISC	**VIII 09 14 00 56**±3.4	**43.1N**±.16	**144.5E**±.19	**124**±35		**9 0-2**	
JMA	VIII 09 14 00 57.5±.3	43.07N±.02	144.46E±.02	113±3		¶97viii1262	
ISC	**VIII 09 16 45 19.6**±.77	**41.45N**±.042	**141.4E**±.10	**89**±15		**36 0-4**	
JMA	VIII 09 16 45 19.8±.1	41.43N±.01	141.30E±.02	88±3		¶97viii1284	
ISC	**VIII 10 11 07 47.5**±.75	**42.18N**±.066	**142.78E**±.073	**33**±18		**22 0-2**	
JMA	VIII 10 11 07 46.8±.1	42.18N±.01	142.77E±.01	42±2	2.8	¶97viii1384	
ISC	**VIII 10 14 54 47**±1.9	**42.69N**±.066	**142.0E**±.10	**139**±25		**30 0-4**	
JMA	VIII 10 14 54 47.9±.2	42.69N±.01	142.06E±.02	132±3		¶97viii1408	
ISC	**VIII 10 23 12 25**±1.9	**42.8N**±.31	**144.3E**±.30	**95**		**6 0-1**	
JMA	VIII 10 23 12 24.8±.2	42.76N±.04	144.30E±.04	95		¶97viii1475	
ISC	**VIII 11 07 10 21**±3.0	**42.5N**±.11	**141.6E**±.17	**100**±36		**14 0-2**	
JMA	VIII 11 07 10 21.9±.3	42.47N±.01	141.67E±.02	95±3		¶97viii1520	
ISC	**VIII 11 08 44 44**±3.0	**43.2N**±.12	**144.4E**±.16	**124**±35		**11 0-2**	
JMA	VIII 11 08 44 44.5±.4	43.14N±.02	144.43E±.03	117±4		¶97viii1532	
ISC	**VIII 11 17 38 33.7**±.44	**44.31N**±.047	**142.86E**±.095	**237**±4.2	**3.6b**	**62 0-156**	
NEIC	VIII 11 17 38 30.2	44.40N	143.21E	200	4.4b	¶97viii1598	
EIDC	VIII 11 17 38 32.8	44.3N	143.2E	209	3.3b		
JMA	VIII 11 17 38 34.0±.2	44.39N±.01	142.84E±.02	232±2			
NEIC	Poor solution.						
ISC	**VIII 12 01 28 59**±1.6	**42.89N**±.089	**145.5E**±.17	**57**±24		**19 1-5**	
JMA	VIII 12 01 29 01.1±.4	42.99N±.02	145.29E±.03	47±5	3.3	¶97viii1658	
ISC	**VIII 12 10 38 45**±1.2	**43.34N**±.066	**142.85E**±.086	**189**±14		**44 0-6**	
JMA	VIII 12 10 38 47.1±.2	43.32N±.01	142.80E±.01	166±2		¶97viii1724	
JMA	**VIII 12 15 15 50.6**±.5	**42.52N**±.03	**145.80E**±.03	**65**		¶97viii1772	
ISC	**VIII 12 15 43 36.5**±.52	**41.08N**±.036	**142.51E**±.079	**68**±27		**39 1-5**	
JMA	VIII 12 15 43 37.1±.1	41.08N±.01	142.41E±.01	50	3.3	¶97viii1776	
ISC	**VIII 13 12 13 35**±7.5	**44.9N**±.52	**141.8E**±.28	**295**±45		**29 1-7**	
JMA	VIII 13 12 13 38.1±.4	44.72N±.04	141.83E±.05	274		¶97viii1905	
ISC	**VIII 13 23 07 57.8**±.44	**42.18N**±.031	**141.90E**±.057	**90**±11		**53 1-11**	
JMA	VIII 13 23 07 58.4±.1	42.20N±.01	141.83E±.01	83±2		¶97viii1973	
ISC	**VIII 14 10 37 39.3**±.69	**41.75N**±.094	**141.56E**±.094	**75**		**12 0-2**	
JMA	VIII 14 10 37 39.3±.2	41.75N±.01	141.55E±.01	75±3		¶97viii2046	
ISC	**VIII 14 12 12 53**±1.5	**42.9N**±.12	**145.0E**±.15	**55**	3.5b	**11 0-57**	
JMA	VIII 14 12 12 52.9±.2	42.94N±.01	145.02E±.02	55±3	2.9	¶97viii2056	
ISC	**VIII 14 14 23 10.8**±.97	**42.54N**±.065	**143.13E**±.077	**88**±14		**26 0-3**	
JMA	VIII 14 14 23 11.2±.2	42.57N±.01	143.10E±.01	82±3		¶97viii2077	
ISC	**VIII 14 17 05 36**±2.0	**42.9N**±.10	**144.4E**±.13	**104**±22		**19 0-3**	
JMA	VIII 14 17 05 36.8±.3	42.87N±.02	144.37E±.02	96±3		¶97viii2094	
ISC	**VIII 14 21 06 36**±3.5	**41.40N**±.029	**142.32E**±.060	**13**±28		**47 1-5**	
JMA	VIII 14 21 06 36.7±.1	41.40N±.01	142.29E±.01	37	3.5	¶97viii2111	
ISC	**VIII 14 23 10 22**±4.4	**44.0N**±.22	**140.7E**±.34	**229**±44		**15 1-5**	
JMA	VIII 14 23 10 21.9±.4	43.98N±.02	140.69E±.05	231±4		¶97viii2125	
ISC	**VIII 15 02 24 19**±2.1	**43.2N**±.11	**144.8E**±.15	**73**±24		**12 0-3**	
JMA	VIII 15 02 24 19.4±.1	43.15N±.01	144.77E±.01	72±2		¶97viii2148	
ISC	**VIII 15 04 08 51**±4.8	**42.6N**±.33	**145.3E**±.29	**26**±22		**6 1-1**	
JMA	VIII 15 04 08 51.8±.4	42.57N±.03	145.26E±.02	39	2.8	¶97viii2162	
ISC	**VIII 15 06 12 04.0**±.37	**42.93N**±.023	**145.94E**±.043	**82**±3.1	**4.8b**	**336 0-153**	
MOS	VIII 15 06 11 59.0	43.2N	145.9E	31	5.4b	¶97viii2168	
BJI	VIII 15 06 11 59.3	42.97N	146.19E	46	4.8b,5.1s		
NEIC	VIII 15 06 11 59.3	43.21N	145.84E	33	4.9b,4.0s		
EIDC	VIII 15 06 12 05.0	43.1N	145.8E	74	4.3b		
SKHL	VIII 15 06 12 05.0	43.1N±.06	146.0E±.11	88±2			
JMA	VIII 15 06 12 05.8±.3	43.02N±.02	145.88E±.02	70±3	4.6		
SKHL	K11 Felt I=II−III MSK at Juzhno−Kurilsk						
ISC	**VIII 15 09 12 11**±1.6	**42.6N**±.12	**143.5E**±.13	**88**±20		**14 0-2**	
JMA	VIII 15 09 12 11.3±.2	42.60N±.01	143.46E±.01	82±3		¶97viii2190	
ISC	**VIII 15 11 35 13**±1.4	**41.05N**±.047	**142.1E**±.14	**96**±30		**22 1-3**	
JMA	VIII 15 11 35 13.1±.2	41.05N±.01	142.05E±.02	89±4		¶97viii2211	
ISC	**VIII 16 00 36 10**±1.3	**43.20N**±.056	**140.2E**±.12	**8**±9.6		**19 0-3**	
JMA	VIII 16 00 36 10.0±.2	43.23N±.01	140.20E±.02	14±2	3.2	¶97viii2295	
ISC	**VIII 16 12 56 08.0**±.42	**41.57N**±.030	**141.96E**±.061	**62**±18		**43 1-5**	
JMA	VIII 16 12 56 07.9±.1	41.56N±.01	141.93E±.01	62±3		¶97viii2371	
ISC	**VIII 16 13 12 45.2**±.57	**42.72N**±.029	**145.66E**±.069	**48**±5.3	**4.1b**,3.3s	**96 1-151**	
NEIC	VIII 16 13 12 46.4	42.89N	145.33E	51	4.3b	¶97viii2372	
JMA	VIII 16 13 12 46.7±.3	42.87N±.02	145.49E±.03	45±5	4.0		
BJI	VIII 16 13 12 46.8	42.92N	145.62E	74	4.4b		
MOS	VIII 16 13 12 48.0	42.9N	145.1E	58	4.6b		
SKHL	VIII 16 13 12 48.0	43.0N±.02	145.4E±.04	60±5			
EIDC	VIII 16 13 12 50.0	43.1N	145.2E	57	3.7b,3.5s		
NEIC	Less reliable solution.						
SKHL	K10						
ISC	**VIII 16 18 07 34**±2.6	**41.78N**±.069	**140.5E**±.20	**180**±25		**25 0-4**	
JMA	VIII 16 18 07 36.0±.3	41.74N±.01	140.55E±.02	157±3		¶97viii2399	
ISC	**VIII 16 19 49 49.6**±.78	**42.50N**±.043	**141.89E**±.072	**117**±13		**39 0-5**	
JMA	VIII 16 19 49 51.3±.1	42.53N±.01	141.90E±.01	94±2		¶97viii2412	
ISC	**VIII 17 02 53 45**±3.8	**42.8N**±.16	**143.4E**±.32	**106**±39		**9 0-2**	
JMA	VIII 17 02 53 44.9±.3	42.76N±.02	143.48E±.03	107±3		¶97viii2466	
ISC	**VIII 17 10 57 40.9**±.43	**42.76N**±.059	**143.44E**±.089	**118**		**26 0-5**	
JMA	VIII 17 10 57 41.3±.2	42.84N±.02	143.42E±.02	118±3		¶97viii2527	
ISC	**VIII 17 12 03 12**±6.2	**43.6N**±.16	**145.0E**±.33	**144**±58		**12 0-2**	
JMA	VIII 17 12 03 13.3±.3	43.52N±.02	144.94E±.02	134±3		¶97viii2538	
JMA	**VIII 18 11 16 34.3**±.4	**41.53N**±.02	**142.58E**±.04	**82**		¶97viii2667	
ISC	**VIII 18 11 35 33**±1.8	**44.2N**±.23	**144.3E**±.25	**189**		**9 1-2**	
JMA	VIII 18 11 35 33.6±.3	44.17N±.04	144.33E±.04	189		¶97viii2672	
ISC	**VIII 18 18 34 08**±3.0	**43.1N**±.12	**144.2E**±.14	**96**±32		**9 0-1**	
JMA	VIII 18 18 34 08.7±.2	43.08N±.01	144.14E±.01	89±2		¶97viii2705	
ISC	**VIII 18 22 04 17**±2.8	**42.6N**±.22	**144.9E**±.17	**40**±50		**10 0-2**	
JMA	VIII 18 22 04 16.9±.2	42.67N±.02	144.83E±.02	47±3	3.0	¶97viii2718	
ISC	**VIII 19 06 09 30.7**±.88	**41.85N**±.048	**139.7E**±.13	**195**±8.5		**37 0-78**	
JMA	VIII 19 06 09 29.6±.3	41.86N±.01	139.55E±.03	202±2		¶97viii2767	
ISC	**VIII 19 07 04 47**±2.5	**43.7N**±.58	**145.5E**±.39	**149**		**6 0-2**	
JMA	VIII 19 07 04 47.3±.3	43.65N±.07	145.50E±.05	149		¶97viii2770	
ISC	**VIII 19 18 37 42.4**±.22	**42.48N**±.026	**139.31E**±.047	**212**±3.0	**4.0b**	**124 0-158**	
NEIC	VIII 19 18 37 41.3	42.55N	139.19E	200	4.3b	¶97viii2855	
BJI	VIII 19 18 37 41.6	42.48N	139.36E	219	4.5b		
MOS	VIII 19 18 37 42.3	42.5N	139.2E	213	4.4b		
JMA	VIII 19 18 37 43.3±.2	42.46N±.01	139.39E±.02	209±2			
EIDC	VIII 19 18 37 43.4	42.5N	139.3E	206	3.9b		
SKHL	VIII 19 18 37 44.0	42.6N±.10	139.7E±.13	220±2			
ISC	**VIII 20 05 11 46.9**±.21	**42.96N**±.021	**143.67E**±.040	**139**±2.3	**4.4b**	**243 0-151**	
SKHL	VIII 20 05 11 46.0	42.8N±.07	143.8E±.15	135±5		¶97viii2910	
BJI	VIII 20 05 11 46.1	43.13N	143.70E	141	4.7b		
MOS	VIII 20 05 11 46.6	43.1N	143.7E	139	4.9b		
NEIC	VIII 20 05 11 46.8	43.09N	143.57E	136	4.6b		
EIDC	VIII 20 05 11 47.8	43.2N	143.5E	128	4.3b		
JMA	VIII 20 05 11 47.9±.2	43.00N±.01	143.73E±.01	131±2	4.5		
SKHL	K11						
JMA	Felt I=III J1						
ISC	**VIII 20 08 29 07.6**±.83	**43.70N**±.056	**141.88E**±.067	**12**±8.6		**13 0-2**	
JMA	VIII 20 08 29 07.9±.1	43.67N±.01	141.89E±.01	13±3	2.8	¶97viii2930	
JMA	**VIII 21 07 19 52.2**±.4	**41.90N**±.03	**143.91E**±.05	**68**		¶97viii3068	
ISC	**VIII 21 11 31 13**±4.2	**42.8N**±.16	**143.4E**±.18	**94**±42		**9 0-2**	
JMA	VIII 21 11 31 12.8±.2	42.78N±.02	143.33E±.02	97±3		¶97viii3090	
JMA	**VIII 21 14 55 32.6**±.4	**41.91N**±.02	**141.70E**±.02	**75**±5		¶97viii3109	
ISC	**VIII 21 16 22 18**±2.6	**42.9N**±.11	**145.2E**±.22	**102**±25		**18 0-4**	
JMA	VIII 21 16 22 19.9±.2	42.97N±.01	145.13E±.02	86±3		¶97viii3120	
ISC	**VIII 22 05 31 34.5**±.59	**42.72N**±.036	**144.81E**±.082	**59**±7.8	**3.8b**	**52 0-85**	
EIDC	VIII 22 05 31 30.8	43.2N	144.4E	0	3.9b,3.2L	¶97viii3184	
JMA	VIII 22 05 31 35.3±.2	42.79N±.02	144.72E±.02	53±3	3.8		
JMA	Felt I=II J1						
ISC	**VIII 22 06 00 57**±1.6	**42.8N**±.10	**144.8E**±.14	**53**±24		**15 0-3**	
JMA	VIII 22 06 00 57.0±.2	42.79N±.01	144.74E±.02	58±3	3.1	¶97viii3185	
ISC	**VIII 22 12 24 22**±5.3	**42.7N**±.16	**143.3E**±.27	**95**±53		**10 0-2**	
JMA	VIII 22 12 24 22.0±.4	42.64N±.02	143.36E±.03	98±4		¶97viii3223	
ISC	**VIII 22 20 43 58.7**±.67	**41.97N**±.042	**140.95E**±.060	**7**±7.3		**20 0-4**	
JMA	VIII 22 20 43 58.9±.1	41.96N±.00	140.98E±.01	11±2	3.0	¶97viii3281	
ISC	**VIII 22 21 47 33**±4.6	**43.0N**±.13	**145.8E**±.45	**40**±55		**17 0-4**	
JMA	VIII 22 21 47 33.0±.2	43.03N±.01	145.76E±.02	49	3.2	¶97viii3292	
ISC	**VIII 23 03 40 42.4**±.70	**41.70N**±.035	**141.42E**±.084	**89**±14		**38 0-4**	
JMA	VIII 23 03 40 42.4±.1	41.69N±.01	141.35E±.01	90±2		¶97viii3334	
ISC	**VIII 23 08 43 58**±5.2	**43.1N**±.14	**145.8E**±.48	**60**±41		**11 0-2**	
JMA	VIII 23 08 43 56.6±.2	43.06N±.01	145.83E±.02	68±2		¶97viii3371	
ISC	**VIII 23 10 15 37**±5.3	**43.5N**±.16	**145.3E**±.32	**97**±46		**10 0-2**	
JMA	VIII 23 10 15 37.8±.2	43.50N±.01	145.26E±.02	91±2		¶97viii3386	
ISC	**VIII 23 11 05 02**±4.8	**43.0N**±.18	**145.0E**±.23	**92**±46		**8 0-2**	
JMA	VIII 23 11 05 03.2±.3	43.05N±.02	144.97E±.02	83±3		¶97viii3394	
JMA	**VIII 23 23 16 33.1**±.3	**41.12N**±.02	**142.93E**±.03	**83**		¶97viii3461	
ISC	**VIII 24 03 14 10**±1.9	**41.93N**±.092	**141.6E**±.21	**71**±34		**10 0-2**	
JMA	VIII 24 03 14 09.9±.2	41.94N±.01	141.51E±.02	77±3		¶97viii3477	
ISC	**VIII 24 04 57 47**±3.0	**42.5N**±.15	**141.3E**±.18	**152**±33		**16 0-4**	
JMA	VIII 24 04 57 48.9±.3	42.49N±.02	141.40E±.02	135±4		¶97viii3481	
ISC	**VIII 24 08 55 31**±5.4	**43.0N**±.16	**145.8E**±.51	**46**±56		**12 0-4**	
JMA	VIII 24 08 55 31.2±.3	43.03N±.02	145.75E±.03	48±3	3.0	¶97viii3503	

Agency		Origin Time				φ	λ	h	Mag	n	Δ-Rng
		mo	d	h	m	s	°	°	km			
ISC	**VIII**	**24**	**13**	**59**	**32.7**±.87	**41.42N**±.070	**144.4E**±.13	**70**±48		**34**	**1-6**
JMA	VIII	24	13	59	33.2±.1	41.47N±.01	144.30E±.02	71		¶97viii3545	
ISC	**VIII**	**24**	**14**	**22**	**04.3**±.89	**42.10N**±.072	**142.80E**±.070	**58**±16		**25**	**0-3**
JMA	VIII	24	14	22	04.4±.1	42.12N±.01	142.77E±.01	56±3	2.9	¶97viii3547	
ISC	**VIII**	**25**	**01**	**47**	**37.1**±.59	**41.34N**±.037	**142.27E**±.083	**53**±37		**31**	**1-4**
JMA	VIII	25	01	47	37.2±.1	41.34N±.01	142.22E±.01	57	3.4	¶97viii3621	
ISC	**VIII**	**25**	**03**	**29**	**03.5**±.47	**42.24N**±.032	**143.04E**±.060	**64**±12		**43**	**0-5**
JMA	VIII	25	03	29	03.7±.2	42.28N±.02	143.00E±.01	64±3		¶97viii3637	
ISC	**VIII**	**25**	**11**	**04**	**08**±3.0	**43.0N**±.15	**144.2E**±.15	**123**±30		**12**	**0-1**
JMA	VIII	25	11	04	08.8±.2	42.96N±.01	144.17E±.01	112±2		¶97viii3681	
ISC	**VIII**	**26**	**09**	**48**	**12**±2.6	**42.4N**±.14	**143.3E**±.23	**59**±31		**8**	**0-2**
JMA	VIII	26	09	48	11.5±.2	42.42N±.01	143.28E±.02	61±3	1.7	¶97viii3827	
ISC	**VIII**	**26**	**10**	**59**	**51**±1.5	**43.0N**±.16	**143.8E**±.45	**84**		**7**	**0-1**
JMA	VIII	26	10	59	51.1±.2	42.99N±.01	143.78E±.02	84±2		¶97viii3837	
ISC	**VIII**	**27**	**10**	**30**	**35**±4.4	**43.1N**±.11	**145.4E**±.34	**105**±37		**19**	**0-4**
JMA	VIII	27	10	30	37.3±.2	43.17N±.01	145.30E±.02	89±2		¶97viii3973	
ISC	**VIII**	**27**	**21**	**07**	**58**±4.4	**42.13N**±.094	**139.0E**±.38	**17**±19		**11**	**0-2**
JMA	VIII	27	21	07	58.9±.4	42.12N±.01	139.14E±.04	22±3	3.4	¶97viii4038	
ISC	**VIII**	**27**	**21**	**39**	**59**±3.5	**43.2N**±.11	**145.7E**±.30	**121**±26		**30**	**0-6**
JMA	VIII	27	21	40	02.3±.2	43.21N±.01	145.44E±.02	95±2		¶97viii4042	
ISC	**VIII**	**27**	**22**	**45**	**06**±3.9	**42.9N**±.12	**143.2E**±.15	**90**±41		**11**	**0-1**
JMA	VIII	27	22	45	06.1±.2	42.89N±.01	143.22E±.01	87±2		¶97viii4051	
ISC	**VIII**	**28**	**12**	**08**	**34.0**±.56	**41.35N**±.037	**142.18E**±.068	**48**±41		**35**	**1-3**
JMA	VIII	28	12	08	33.8±.1	41.34N±.01	142.12E±.01	60±4	3.0	¶97viii4128	
ISC	**VIII**	**28**	**18**	**16**	**46**±1.3	**42.78N**±.070	**143.02E**±.093	**134**±16		**27**	**0-5**
JMA	VIII	28	18	16	47.1±.3	42.81N±.02	142.98E±.02	116±3		¶97viii4173	
ISC	**VIII**	**29**	**00**	**26**	**22**±6.8	**44.2N**±.43	**141.9E**±.36	**252**±48		**13**	**1-5**
JMA	VIII	29	00	26	26.2±.5	43.93N±.03	142.07E±.04	222±4		¶97viii4209	
ISC	**VIII**	**29**	**18**	**52**	**06.5**±.92	**41.90N**±.040	**142.52E**±.058	**17**±11		**31**	**0-3**
JMA	VIII	29	18	52	06.6±.1	41.87N±.01	142.53E±.01	31±2	3.0	¶97viii4363	
ISC	**VIII**	**30**	**01**	**28**	**06**±1.2	**42.70N**±.087	**145.1E**±.14	**42**±40		**22**	**0-5**
JMA	VIII	30	01	28	06.2±.2	42.75N±.01	145.04E±.02	49±3	3.3	¶97viii4405	
ISC	**VIII**	**30**	**01**	**49**	**43.9**±.52	**41.86N**±.041	**142.93E**±.075	**37**±21		**31**	**0-3**
JMA	VIII	30	01	49	43.4±.2	41.86N±.02	142.91E±.02	45±3	3.2	¶97viii4407	
ISC	**VIII**	**30**	**14**	**56**	**09**±2.5	**42.9N**±.13	**144.2E**±.16	**101**±27		**12**	**0-1**
JMA	VIII	30	14	56	09.1±.3	42.89N±.02	144.21E±.02	95±4		¶97viii4502	
ISC	**VIII**	**30**	**16**	**42**	**07.2**±.57	**42.06N**±.049	**143.20E**±.078	**58**±14		**31**	**0-4**
JMA	VIII	30	16	42	07.3±.2	42.06N±.02	143.17E±.02	56±2	3.0	¶97viii4514	
ISC	**VIII**	**31**	**00**	**58**	**00.1**±.64	**42.98N**±.060	**139.4E**±.13	**224**±7.6	**3.3b**	**44**	**1-75**
NEIC	VIII	31	00	58	00.2	42.95N	139.25E	227		¶97viii4562	
JMA	VIII	31	00	58	00.5±.4	43.00N±.02	139.38E±.04	222±3			
EIDC	VIII	31	00	58	01.1	43.0N	139.2E	213	3.1b		
NEIC	Poor solution.										
JMA	**VIII**	**31**	**02**	**40**	**21.3**±.1	**43.54N**±.01	**140.64E**±.01	**14**±2	**3.0**	¶97viii4572	
ISC	**VIII**	**31**	**05**	**45**	**43.8**±.83	**43.09N**±.042	**142.76E**±.057	**8**±8.3		**20**	**0-2**
JMA	VIII	31	05	45	44.2±.1	43.09N±.01	142.72E±.01	9±3	2.9	¶97viii4590	
ISC	**VIII**	**31**	**06**	**41**	**34**±5.1	**43.5N**±.15	**145.2E**±.26	**95**±47		**9**	**0-2**
JMA	VIII	31	06	41	34.2±.2	43.46N±.01	145.16E±.01	89±2		¶97viii4602	
ISC	**VIII**	**31**	**06**	**59**	**39**±4.0	**42.8N**±.11	**142.8E**±.20	**99**±42		**11**	**0-1**
JMA	VIII	31	06	59	37.3±.2	42.76N±.01	142.83E±.01	113±2		¶97viii4604	
ISC	**VIII**	**31**	**09**	**23**	**59**±6.4	**43.2N**±.20	**145.4E**±.36	**79**±58		**9**	**0-2**
JMA	VIII	31	09	23	59.5±.2	43.24N±.01	145.34E±.01	78±2		¶97viii4629	
ISC	**VIII**	**31**	**13**	**00**	**49.9**±.51	**41.84N**±.043	**142.97E**±.067	**39**±20		**35**	**0-4**
JMA	VIII	31	13	00	49.5±.1	41.85N±.01	142.94E±.02	46±3	2.9	¶97viii4652	
ISC	**VIII**	**31**	**20**	**10**	**52**±1.6	**41.78N**±.079	**139.5E**±.18	**25**±12		**12**	**0-2**
JMA	VIII	31	20	10	52.2±.2	41.77N±.01	139.42E±.02	26±3	2.9	¶97viii4702	
ISC	**VIII**	**31**	**21**	**08**	**33**±4.7	**42.8N**±.26	**144.2E**±.29	**81**±49		**8**	**0-1**
JMA	VIII	31	21	08	33.0±.4	42.74N±.03	144.24E±.03	79±5		¶97viii4708	
ISC	**IX**	**01**	**05**	**25**	**22**±3.2	**41.9N**±.27	**142.5E**±.16	**55**±41		**6**	**0-2**
JMA	IX	01	05	25	21.4±.2	41.89N±.02	142.50E±.01	62±3		¶97ix0053	
ISC	**IX**	**01**	**06**	**33**	**43**±2.6	**42.6N**±.13	**143.7E**±.16	**112**±31		**21**	**0-5**
JMA	IX	01	06	33	44.2±.3	42.62N±.02	143.64E±.02	102±3		¶97ix0060	
ISC	**IX**	**01**	**07**	**04**	**19**±5.7	**42.5N**±.12	**139.1E**±.48	**4**±16		**8**	**0-2**
JMA	IX	01	07	04	19.3±.3	42.48N±.01	139.14E±.03	9±3	2.8	¶97ix0065	
ISC	**IX**	**01**	**08**	**43**	**01**±1.4	**42.95N**±.093	**144.6E**±.12	**51**±21		**13**	**0-3**
JMA	IX	01	08	43	00.5±.2	42.95N±.01	144.54E±.02	50±3	2.8	¶97ix0074	
ISC	**IX**	**01**	**09**	**30**	**15**±2.4	**43.3N**±.16	**142.6E**±.15	**167**±22		**22**	**0-6**
JMA	IX	01	09	30	17.4±.4	43.30N±.02	142.61E±.02	140±4		¶97ix0085	
ISC	**IX**	**01**	**11**	**03**	**04**±2.9	**42.4N**±.11	**142.1E**±.14	**128**±37		**15**	**0-3**
JMA	IX	01	11	03	04.7±.3	42.36N±.01	142.08E±.02	117±3		¶97ix0097	
ISC	**IX**	**01**	**15**	**55**	**48**±1.7	**42.71N**±.073	**142.75E**±.086	**96**±22		**20**	**0-2**
JMA	IX	01	15	55	48.2±.2	42.70N±.01	142.75E±.01	92±3		¶97ix0131	
ISC	**IX**	**01**	**17**	**36**	**24.3**±.62	**42.26N**±.049	**143.17E**±.071	**60**±13		**26**	**0-4**
JMA	IX	01	17	36	24.4±.3	42.30N±.02	143.14E±.02	60±4	2.7	¶97ix0146	
ISC	**IX**	**01**	**21**	**30**	**45**±10	**43.2N**±.26	**145.9E**±.92	**61**±59		**6**	**0-2**
JMA	IX	01	21	30	43.6±.2	43.14N±.01	146.02E±.02	69±1		¶97ix0167	
ISC	**IX**	**02**	**00**	**19**	**47.9**±.31	**41.21N**±.019	**142.66E**±.039	**54**±2.8	**5.1b,4.4s**	**384**	**1-153**
BJI	IX	02	00	19	46.8	41.12N	142.65E	62	5.2b,4.4s	¶97ix0185	
JMA	IX	02	00	19	47.3±.1	41.21N±.01	142.71E±.01	49	4.8		
MOS	IX	02	00	19	47.3	41.3N	142.5E	46	5.4b,4.3s		
NEIC	IX	02	00	19	48.0	41.25N	142.57E	55	5.1b,4.4s		
EIDC	IX	02	00	19	51.1	41.3N	142.5E	64	4.6b		
JMA	Felt I=II J1										
ISC	**IX**	**02**	**01**	**03**	**06**±1.5	**41.85N**±.070	**145.4E**±.19	**68**		**24**	**1-5**
JMA	IX	02	01	03	09.3±.4	42.05N±.02	145.22E±.03	68		¶97ix0195	
ISC	**IX**	**02**	**07**	**48**	**34**±1.5	**43.0N**±.40	**144.3E**±.36	**116**		**6**	**0-1**
JMA	IX	02	07	48	34.2±.1	43.04N±.04	144.34E±.04	116		¶97ix0238	
ISC	Poorly determined										
ISC	**IX**	**02**	**21**	**20**	**53**±2.3	**43.0N**±.11	**144.3E**±.13	**100**±25		**12**	**0-1**
JMA	IX	02	21	20	53.7±.3	43.01N±.02	144.29E±.02	96±3		¶97ix0329	
ISC	**IX**	**02**	**21**	**53**	**55.7**±.34	**42.62N**±.039	**142.23E**±.068	**122**		**36**	**0-4**
JMA	IX	02	21	53	56.0±.1	42.65N±.01	142.21E±.01	122±2		¶97ix0336	
ISC	**IX**	**03**	**04**	**28**	**40**±2.9	**42.7N**±.14	**143.5E**±.22	**98**±31		**9**	**0-1**
JMA	IX	03	04	28	39.9±.2	42.68N±.01	143.44E±.02	94±2		¶97ix0377	
ISC	**IX**	**03**	**05**	**58**	**38**±4.7	**43.0N**±.25	**144.3E**±.23	**109**±49		**8**	**0-1**
JMA	IX	03	05	58	39.1±.4	43.01N±.03	144.29E±.03	98±4		¶97ix0386	
ISC	**IX**	**03**	**06**	**06**	**20**±1.8	**41.9N**±.11	**145.4E**±.19	**80**±58		**27**	**1-6**
JMA	IX	03	06	06	23.5±.4	42.10N±.03	145.20E±.04	74		¶97ix0388	
ISC	**IX**	**03**	**17**	**42**	**27**±7.1	**42.5N**±.39	**146.0E**±.56	**52**		**17**	**1-5**
JMA	IX	03	17	42	27.6±.3	42.56N±.02	145.88E±.02	52±5	3.1	¶97ix0457	
ISC	**IX**	**03**	**21**	**22**	**52**±7.8	**43.8N**±.69	**145.1E**±.42	**184**±56		**11**	**0-4**
JMA	IX	03	21	22	55.7±.4	43.61N±.05	145.01E±.03	155±3		¶97ix0494	
ISC	**IX**	**03**	**22**	**50**	**33**±2.0	**43.1N**±.31	**145.4E**±.25	**92**		**5**	**0-2**
JMA	IX	03	22	50	32.9±.1	43.11N±.01	145.38E±.01	92±2		¶97ix0505	
ISC	**IX**	**04**	**06**	**50**	**58.5**±.64	**42.47N**±.084	**142.80E**±.090	**73**		**16**	**0-2**
JMA	IX	04	06	50	58.4±.2	42.47N±.02	142.79E±.02	73±3		¶97ix0558	
ISC	**IX**	**04**	**10**	**12**	**23.1**±.89	**42.80N**±.052	**143.24E**±.076	**129**±12		**41**	**0-6**
JMA	IX	04	10	12	25.0±.2	42.84N±.01	143.18E±.01	107±2		¶97ix0575	
ISC	**IX**	**04**	**10**	**36**	**18**±9.0	**42.4N**±.53	**144.0E**±.26	**91**±59		**8**	**1-2**
JMA	IX	04	10	36	20.0±.3	42.48N±.02	143.98E±.02	80±3		¶97ix0577	
ISC	**IX**	**04**	**14**	**00**	**44.1**±.58	**41.66N**±.033	**141.39E**±.073	**85**±12		**41**	**0-5**
JMA	IX	04	14	00	43.9±.1	41.65N±.00	141.32E±.01	89±2		¶97ix0601	
ISC	**IX**	**04**	**20**	**08**	**06**±1.2	**41.84N**±.064	**145.5E**±.16	**84**±19		**29**	**1-58**
JMA	IX	04	20	08	11.4±.3	42.14N±.02	145.13E±.02	65		¶97ix0630	
ISC	**IX**	**04**	**22**	**59**	**58**±1.8	**41.99N**±.067	**140.8E**±.18	**128**±19		**24**	**0-4**
JMA	IX	04	22	59	59.3±.2	41.98N±.01	140.82E±.01	117±2		¶97ix0647	
ISC	**IX**	**05**	**00**	**19**	**23**±3.9	**43.6N**±.11	**140.2E**±.27	**6**±23		**7**	**0-1**
JMA	IX	05	00	19	23.8±.2	43.56N±.01	140.24E±.02	7±3	2.8	¶97ix0655	
ISC	**IX**	**05**	**02**	**24**	**09**±2.7	**43.3N**±.17	**142.8E**±.14	**188**±24		**24**	**0-5**
JMA	IX	05	02	24	13.3±.4	43.21N±.02	142.75E±.02	150±4		¶97ix0671	
ISC	**IX**	**05**	**06**	**24**	**21.1**±.59	**41.77N**±.049	**143.00E**±.083	**47**±22		**26**	**0-3**
JMA	IX	05	06	24	21.0±.1	41.78N±.01	142.96E±.02	49±3	2.9	¶97ix0705	
ISC	**IX**	**05**	**06**	**40**	**21**±4.0	**41.88N**±.097	**139.1E**±.30	**10**±17		**12**	**0-2**
JMA	IX	05	06	40	22.1±.4	41.90N±.01	139.17E±.03	16±3	3.1	¶97ix0706	
ISC	**IX**	**05**	**10**	**58**	**17.5**±.90	**42.76N**±.050	**144.70E**±.098	**52**±19		**31**	**0-5**
JMA	IX	05	10	58	17.6±.2	42.79N±.02	144.64E±.02	54±3	3.1	¶97ix0737	
ISC	**IX**	**05**	**20**	**32**	**14**±3.0	**43.2N**±.10	**143.6E**±.15	**130**±32		**12**	**0-2**
JMA	IX	05	20	32	13.5±.3	43.15N±.02	143.58E±.02	129±3		¶97ix0798	
JMA	**IX**	**06**	**00**	**53**	**43.7**±.5	**42.60N**±.03	**142.75E**±.02	**108**±4		**27**	**0-2**
ISC	**IX**	**06**	**01**	**15**	**16**±2.2	**42.8N**±.16	**144.8E**±.15	**57**±26		**14**	**0-3**
JMA	IX	06	01	15	16.2±.2	42.82N±.02	144.73E±.02	54±3	2.9	¶97ix0833	
ISC	**IX**	**06**	**02**	**45**	**24**±3.6	**41.3N**±.13	**139.2E**±.41	**18**±25		**7**	**1-2**
JMA	IX	06	02	45	24.0±.3	41.33N±.01	139.21E±.03	27±4	2.8	¶97ix0848	
ISC	Poorly determined										
ISC	**IX**	**06**	**05**	**33**	**26**±6.3	**42.9N**±.34	**143.5E**±.47	**117**±58		**7**	**0-2**
JMA	IX	06	05	33	26.0±.2	42.96N±.05	143.48E±.05	116		¶97ix0863	
ISC	**IX**	**06**	**08**	**55**	**56.3**±.89	**43.4N**±.21	**144.7E**±.22	**136**		**8**	**0-2**
JMA	IX	06	08	55	56.5±.3	43.35N±.03	144.67E±.03	136±3		¶97ix0892	
ISC	**IX**	**06**	**11**	**34**	**33**±3.4	**43.59N**±.096	**140.2E**±.22	**4**±19		**10**	**0-2**
JMA	IX	06	11	34	33.4±.3	43.57N±.01	140.25E±.03	5±3	2.9	¶97ix0909	
ISC	**IX**	**06**	**13**	**48**	**33**±1.2	**42.92N**±.071	**144.3E**±.10	**128**±16		**30**	**0-5**
JMA	IX	06	13	48	34.4±.3	42.96N±.02	144.23E±.02	108±3		¶97ix0926	
ISC	**IX**	**06**	**18**	**03**	**31**±2.0	**42.0N**±.13	**142.1E**±.10	**72**±32		**14**	**0-2**
JMA	IX	06	18	03	31.2±.2	42.05N±.01	142.08E±.01	74±3		¶97ix0953	
ISC	**IX**	**06**	**21**	**31**	**34**±1.3	**42.47N**±.097	**144.2E**±.10	**43**±40		**27**	**1-5**
JMA	IX	06	21	31	34.0±.3	42.48N±.02	144.18E±.02	55±4	2.8	¶97ix0969	
ISC	**IX**	**06**	**21**	**44**	**45.5**±.30	**42.12N**±.025	**142.78E**±.054	**48**±6.0	**3.5b**	**70**	**0-86**
NEIC	IX	06	21	44	43.7	42.02N	142.88E	33		¶97ix0971	
JMA	IX	06	21	44	45.3±.1	42.15N±.01	142.74E±.01	51±2	4.1		
EIDC	IX	06	21	44	47.9	42.0N	142.7E	56	3.2b,3.8L		
NEIC	Less reliable solution.										
ISC	**IX**	**07**	**00**	**40**	**01.6**±.38	**42.14N**±.030	**142.78E**±.057	**50**±13		**44**	**0-5**
JMA	IX	07	00	40	01.2±.1	42.13N±.01	142.75E±.01	52±2	3.3	¶97ix0999	
ISC	**IX**	**07**	**02**	**19**	**42**±3.4	**42.6N**±.20	**143.1E**±.55	**68**		**9**	**0-2**
JMA	IX	07	02	19	41.9±.2	42.66N±.02	143.05E±.03	68		¶97ix1001	
ISC	**IX**	**07**	**05**	**17**	**40.1**±.43	**41.94N**±.033	**142.33E**±.056	**67**±15		**46**	**0-6**
JMA	IX	07	05	17	40.3±.1	41.95N±.01	142.29E±.01	63±2		¶97ix1015	
ISC	**IX**	**07**	**07**	**51**	**21**±1.9	**43.2N**±.48	**142.3E**±.42	**152**		**4**	**1-1**
JMA	IX	07	07	51	20.6±.4	43.17N±.03	142.28E±.03	152±4		¶97ix1027	
ISC	Poorly determined										
ISC	**IX**	**07**	**10**	**50**	**27**±1.9	**43.4N**±.11	**142.8E**±.11	**158**±20		**28**	**0-5**
JMA	IX	07	10	50	29.3±.2	43.32N±.01	142.84E±.01	134±2		¶97ix1052	
ISC	**IX**	**07**	**13**	**41**	**52**±4.6	**42.8N**±.12	**143.4E**±.26	**93**±47		**11**	**0-2**
JMA	IX	07	13	41	51.3±.4	42.75N±.01	143.43E±.02	99±3		¶97ix1073	
ISC	**IX**	**07**	**15**	**16**	**22**±1.7	**43.5N**±.17	**145.7E**±.25	**104**		**9**	**0-2**
JMA	IX	07	15	16	22.4±.3	43.44N±.02	145.67E±.02	104±2		¶97ix1092	
ISC	**IX**	**08**	**00**	**52**	**53**±1.4	**42.0N**±.11	**142.58E**±.081	**66**±20		**18**	**0-3**
JMA	IX	08	00	52	53.5±.1	42.02N±.01	142.56E±.01	61±2	2.7	¶97ix1146	
ISC	**IX**	**08**	**03**	**19**	**10**±1.2	**42.78N**±.044	**145.7E**±.14	**49**±11	**3.9b**	**44**	**1-70**
EIDC	IX	08	03	18	59.5	41.7N	145.3E	0	3.9b	¶97ix1162	
JMA	IX	08	03	19	12.1±.3	42.93N±.02	145.46E±.03	44±4	3.6		
EIDC	LO CONF Location										
ISC	**IX**	**08**	**12**	**57**	**05**±2.4	**42.6N**±.17	**144.2E**±.14	**68**±29		**10**	**0-2**
JMA	IX	08	12	57	05.4±.3	42.61N±.02	144.14E±.02	65±3		¶97ix1223	
ISC	**IX**	**08**	**14**	**08**	**40**±2.9	**43.1N**±.12	**143.8E**±.17	**97**±31		**9**	**0-1**
JMA	IX	08	14	08	40.1±.1	43.09N±.01	143.77E±.01	94±1		¶97ix1231	
ISC	**IX**	**08**	**17**	**26**	**18**±7.9	**45.6N**±.56	**143.3E**±.21	**338**±45		**36**	**2-7**
JMA	IX	08	17	26	19.9±.5	45.41N±.03	143.26E±.04	326±4		¶97ix1253	
JMA	**IX**	**08**	**23**	**42**	**00.1**±.2	**42.37N**±.04	**141.94E**±.03	**90**		¶97ix1297	
ISC	**IX**	**09**	**01**	**19**	**55.8**±.24	**41.81N**±.024	**142.45E**±.052	**105**±3.5	**4.0b**	**125**	**0-79**
NEIC	IX	09	01	19	55.8	41.85N	142.31E	100	4.1b	¶97ix1307	
JMA	IX	09	01	19	56.5±.1	41.83N±.01	142.37E±.01	98±2	4.0		
EIDC	IX	09	01	19	57.7	41.9N	142.2E	100	3.7b		
JMA	Felt I=II J1										
ISC	**IX**	**09**	**08**	**51**	**47**±1.3	**42.47N**±.063	**140.7E**±.12	**158**±14		**41**	**0-6**
JMA	IX	09	08	51	48.7±.1	42.46N±.01	140.71E±.01	140±2		¶97ix1344	
ISC	**IX**	**09**	**10**	**21**	**53**±2.1	**42.6N**±.13	**144.3E**±.14	**68**±30		**12**	**0-2**
JMA	IX	09	10	21	53.0±.3	42.60N±.02	144.27E±.02	66±4		¶97ix1357	
ISC	**IX**	**09**	**10**	**25**	**40.5**±.62	**41.50N**±.038	**142.02E**±.065	**56**±31		**31**	**1-3**
JMA	IX	09	10	25	40.4±.1	41.49N±.01	141.98E±.01	59±3	2.9	¶97ix1359	
ISC	**IX**	**09**	**10**	**46**	**03**±4.4	**43.2N**±.18	**145.3E**±.26	**94**±40		**10**	**0-2**
JMA	IX	09	10	46	03.4±.2	43.16N±.01	145.27E±.02	93±2		¶97ix1361	
ISC	**IX**	**09**	**14**	**17**	**07**±1.9	**41.31N**±.055	**139.2E**±.21	**21**±14		**13**	**1-2**
JMA	IX	09	14	17	06.9±.2	41.29N±.01	139.21E±.02	26±4	2.8	¶97ix1389	
ISC	**IX**	**09**	**14**	**26**	**30**±1.3	**42.56N**±.079	**145.0E**±.14	**83**±23		**26**	**0-5**
JMA	IX	09	14	26	32.6±.3	42.70N±.02	144.83E±.02	68±4		¶97ix1392	
ISC	**IX**	**09**	**16**	**08**	**21**±2.5	**42.56N**±.075	**139.2E**±.23	**25**±12		**18**	**1-3**
JMA	IX	09	16	08	21.0±.4	42.59N±.02	139.23E±.04	36±4	3.4	¶97ix1404	
ISC	**IX**	**09**	**16**	**20**	**27**±3.0	**42.4N**±.15	**143.7E**±.16	**91**±33		**11**	**0-2**
JMA	IX	09	16	20	28.0±.2	42.41N±.02	143.70E±.02	84±3		¶97ix1407	
ISC	**IX**	**10**	**03**	**26**	**47.5**±.66	**42.68N**±.045	**145.24E**±.085	**58**±20		**51**	**1-9**
JMA	IX	10	03	26	49.3±.3	42.84N±.02	145.05E±.02	52±4	3.9	¶97ix1470	
SKHL	IX	10	03	26	50.0	42.8N±.01	145.1E±.03	44±4			
SKHL	K10										
JMA	**IX**	**10**	**08**	**53**	**39.9**±.4	**42.35N**±.01	**139.24E**±.03	**11**	**3.1**	¶97ix1502	
ISC	**IX**	**10**	**17**	**45**	**51**±2.9	**41.30N**±.093	**139.2E**±.28	**1**±15		**10**	**1-2**
JMA	IX	10	17	45	52.4±.2	41.31N±.01	139.29E±.02	5±2	2.8	¶97ix1554	
ISC	**IX**	**11**	**00**	**20**	**44.6**±.74	**43.0N**±.14	**143.7E**±.21	**129**		**10**	**0-2**
JMA	IX	11	00	20	44.5±.4	42.95N±.03	143.68E±.03	129±4		¶97ix1599	
ISC	**IX**	**11**	**08**	**26**	**42.6**±.64	**42.61N**±.039	**141.88E**±.067	**125**±11		**49**	**0-6**
JMA	IX	11	08	26	43.6±.1	42.65N±.01	141.86E±.01	111±2		¶97ix1651	
ISC	**IX**	**11**	**12**	**18**	**05**±1.0	**43.02N**±.054	**143.90E**±.088	**115**±14		**34**	**0-6**
JMA	IX	11	12	18	07.2±.2	43.08N±.01	143.84E±.02	94±3		¶97ix1672	
ISC	**IX**	**11**	**13**	**51**	**26**±1.2	**41.56N**±.042	**142.79E**±.075	**23**±14		**31**	**1-3**
JMA	IX	11	13	51	26.2±.2	41.55N±.01	142.72E±.01	31±4	2.9	¶97ix1684	
ISC	**IX**	**11**	**18**	**03**	**29**±5.1	**43.0N**±.13	**142.9E**±.17	**93**±55		**8**	**0-1**
JMA	IX	11	18	03	27.8±.4	42.98N±.02	142.90E±.02	102±4		¶97ix1719	
ISC	**IX**	**12**	**00**	**31**	**00**±2.2	**43.3N**±.21	**145.9E**±.30	**88**		**8**	**0-2**
JMA	IX	12	00	31	00.3±.3	43.33N±.02	145.87E±.02	88±2		¶97ix1751	

ISC	**IX**	**12 06 18 09**±2.1	**42.8N**±.15	**144.8E**±.16	**53**±29			**10**	**0-2**
JMA	IX	12 06 18 09.3±.2	42.78N±.01	144.74E±.02	53±3	3.0		**¶97ix1778**	
ISC	**IX**	**12 07 15 52**±1.0	**41.86N**±.060	**139.8E**±.11	**14**±10			**12**	**0-2**
JMA	IX	12 07 15 52.4±.1	41.86N±.00	139.84E±.01	16±2	3.2		**¶97ix1781**	
ISC	**IX**	**12 08 33 41.2**±.59	**41.59N**±.041	**142.90E**±.083	**21**			**30**	**0-3**
JMA	IX	12 08 33 40.6±.2	41.58N±.01	142.89E±.02	21±3	3.0		**¶97ix1786**	
ISC	**IX**	**12 10 18 08.4**±.69	**41.91N**±.052	**140.20E**±.079	**12**			**11**	**0-2**
JMA	IX	12 10 18 08.7±.0	41.90N±.00	140.20E±.01	12±2	2.8		**¶97ix1801**	
ISC	**IX**	**12 16 11 58**±4.7	**41.49N**±.032	**142.86E**±.064	**9**±38			**42**	**1-5**
JMA	IX	12 16 11 59.3±.2	41.49N±.01	142.82E±.02	24±4	3.4		**¶97ix1840**	
ISC	**IX**	**12 21 43 56**±5.7	**42.9N**±.15	**143.3E**±.32	**114**±61			**9**	**0-1**
JMA	IX	12 21 43 55.8±.2	42.88N±.01	143.32E±.02	115±3			**¶97ix1877**	
ISC	**IX**	**12 22 31 48**±3.8	**42.7N**±.15	**143.5E**±.24	**111**±41			**9**	**0-2**
JMA	IX	12 22 31 47.8±.4	42.76N±.02	143.45E±.03	109±4			**¶97ix1881**	
ISC	**IX**	**13 02 48 48**±10	**43.3N**±.18	**146.0E**±.99	**52**±52			**10**	**0-3**
JMA	IX	13 02 48 42.8±.3	43.23N±.02	146.48E±.03	73±3			**¶97ix1902**	
ISC	**IX**	**14 08 01 30**±1.7	**41.33N**±.059	**140.6E**±.18	**159**±18			**33**	**0-4**
JMA	IX	14 08 01 32.4±.2	41.31N±.01	140.68E±.02	138±3			**¶97ix2090**	
ISC	**IX**	**14 13 41 25**±2.0	**42.6N**±.14	**144.7E**±.15	**62**±27			**16**	**0-3**
JMA	IX	14 13 41 24.9±.2	42.59N±.02	144.66E±.02	63±3			**¶97ix2131**	
JMA	**IX**	**15 01 46 44.0**±.2	**42.89N**±.03	**143.79E**±.04	**68**			**¶97ix2186**	
JMA	**IX**	**15 02 14 23.5**±.1	**41.16N**±.01	**142.82E**±.01	**51**	**2.8**		**¶97ix2193**	
ISC	**IX**	**15 10 27 34**±2.4	**43.00N**±.094	**143.8E**±.12	**94**±28			**12**	**0-1**
JMA	IX	15 10 27 34.1±.3	42.99N±.02	143.76E±.02	87±3			**¶97ix2226**	
ISC	**IX**	**16 10 08 09.5**±.33	**41.55N**±.036	**141.51E**±.076	**124**			**36**	**0-4**
JMA	IX	16 10 08 09.8±.1	41.55N±.00	141.44E±.01	124±2			**¶97ix2370**	
ISC	**IX**	**17 05 04 22**±1.3	**42.42N**±.096	**143.8E**±.13	**96**±18			**25**	**0-4**
JMA	IX	17 05 04 22.5±.2	42.46N±.02	143.74E±.02	89±3			**¶97ix2468**	
ISC	**IX**	**17 05 28 59**±3.9	**42.8N**±.22	**143.8E**±.27	**103**±42			**8**	**0-2**
JMA	IX	17 05 28 59.4±.4	42.78N±.03	143.80E±.03	101±4			**¶97ix2471**	
ISC	**IX**	**17 16 07 44.4**±.91	**45.16N**±.066	**143.0E**±.10	**310**±9.1			**56**	**0-10**
JMA	IX	17 16 07 45.9±.3	45.09N±.02	142.95E±.02	298±2			**¶97ix2530**	
SKHL	IX	17 16 07 46.0	45.22N±.06	143.01E±.10	307±5				
ISC	**IX**	**17 17 41 14**±1.4	**42.75N**±.067	**142.48E**±.079	**103**±21			**21**	**0-2**
JMA	IX	17 17 41 14.3±.1	42.75N±.01	142.47E±.01	94±2			**¶97ix2541**	
ISC	**IX**	**17 20 46 16**±1.5	**41.53N**±.053	**142.67E**±.079	**8**±12			**23**	**1-3**
JMA	IX	17 20 46 16.8±.2	41.52N±.01	142.67E±.01	24±3	2.9		**¶97ix2553**	
ISC	**IX**	**17 22 56 14**±5.1	**43.8N**±.16	**144.7E**±.23	**134**±49			**12**	**0-2**
JMA	IX	17 22 56 15.0±.3	43.74N±.02	144.64E±.02	129±3			**¶97ix2570**	
ISC	**IX**	**18 02 14 35.9**±.80	**42.7N**±.14	**142.4E**±.14	**123**			**10**	**0-2**
JMA	IX	18 02 14 35.8±.5	42.67N±.03	142.46E±.03	123±5			**¶97ix2596**	
ISC	**IX**	**18 03 15 38**±5.7	**43.4N**±.36	**140.4E**±.44	**214**±29			**25**	**1-6**
JMA	IX	18 03 15 40.4±.5	43.32N±.03	140.55E±.03	198±4			**¶97ix2605**	
ISC	**IX**	**18 03 46 06.5**±.55	**42.74N**±.027	**145.83E**±.062	**46**±4.7	**4.4b**,3.7s		**133**	**1-150**
MOS	IX	18 03 46 05.5	42.8N	145.8E	33	5.2b		**¶97ix2608**	
NEIC	IX	18 03 46 07.4	42.95N	145.55E	45	4.9b			
SKHL	IX	18 03 46 08.0	42.8N±.09	145.8E±.16	41±4				
JMA	IX	18 03 46 08.4±.3	42.90N±.02	145.65E±.03	48±3	4.5			
BJI	IX	18 03 46 08.4	43.28N	145.77E	70	4.6b			
EIDC	IX	18 03 46 09.4	42.9N	145.8E	46	3.9b			
NEIC	Felt I=II J in the Kushiro and Nemuro areas. Felt II MSK at Yuzhno-Kurilsk, Kunashir.								
SKHL	K10 Felt I=I−II MSK at Juzhno−Kurilsk								
ISC	**IX**	**18 18 31 25**±1.1	**43.5N**±.18	**145.2E**±.19	**89**			**7**	**0-2**
JMA	IX	18 18 31 25.0±.2	43.44N±.01	145.18E±.01	89±2			**¶97ix2697**	
ISC	**IX**	**19 02 48 43.5**±.92	**44.30N**±.066	**141.70E**±.079	**11**±10			**13**	**0-2**
JMA	IX	19 02 48 43.8±.1	44.29N±.01	141.70E±.01	12±3	2.8		**¶97ix2743**	
ISC	**IX**	**19 12 28 10**±3.5	**41.4N**±.18	**142.3E**±.15	**80**±52			**11**	**1-2**
JMA	IX	19 12 28 10.9±.2	41.38N±.01	142.22E±.01	68±4			**¶97ix2790**	
ISC	**IX**	**19 13 38 56**±1.8	**41.96N**±.078	**141.8E**±.13	**67**±37			**18**	**1-3**
JMA	IX	19 13 38 55.8±.1	41.96N±.01	141.82E±.01	64±3			**¶97ix2796**	
ISC	**IX**	**19 18 52 37**±1.1	**45.1N**±.20	**141.8E**±.17	**15**±32			**12**	**0-2**
JMA	IX	19 18 52 37.6±.2	45.07N±.02	141.75E±.02	22±4	3.0		**¶97ix2830**	
JMA	**IX**	**20 01 44 23.4**±.5	**43.05N**±.03	**145.11E**±.03	**83**±4			**¶97ix2880**	
ISC	**IX**	**20 17 28 49**±3.0	**41.08N**±.098	**139.2E**±.33	**10**			**11**	**1-2**
JMA	IX	20 17 28 48.3±.3	41.08N±.01	139.13E±.03	10±4	3.0		**¶97ix2976**	
ISC	**IX**	**21 02 58 47**±3.8	**42.8N**±.19	**143.5E**±.48	**101**±36			**10**	**0-2**
JMA	IX	21 02 58 47.1±.3	42.75N±.02	143.50E±.03	99±3			**¶97ix3034**	
ISC	**IX**	**21 09 04 46**±1.1	**42.4N**±.17	**141.7E**±.19	**95**			**8**	**0-2**
JMA	IX	21 09 04 45.7±.3	42.42N±.02	141.73E±.02	95±3			**¶97ix3071**	
ISC	**IX**	**21 12 04 32**±1.8	**43.6N**±.10	**142.8E**±.11	**211**±18			**33**	**0-5**
JMA	IX	21 12 04 34.4±.3	43.64N±.01	142.74E±.02	187±3			**¶97ix3095**	
ISC	**IX**	**21 21 33 34**±5.5	**42.9N**±.19	**139.1E**±.45	**20**±20			**9**	**1-2**
JMA	IX	21 21 33 36.2±.4	42.81N±.02	139.22E±.04	29	3.1		**¶97ix3167**	
ISC	**IX**	**22 04 32 17**±1.3	**42.77N**±.069	**143.01E**±.099	**144**±17			**28**	**0-4**
JMA	IX	22 04 32 18.6±.3	42.80N±.02	142.98E±.02	128±3			**¶97ix3210**	
ISC	**IX**	**22 08 46 52**±3.1	**43.5N**±.19	**145.6E**±.37	**29**±20			**7**	**0-2**
JMA	IX	22 08 46 46.1±.4	43.57N±.03	146.16E±.05	67			**¶97ix3248**	
ISC	**IX**	**22 08 50 40**±2.4	**43.5N**±.24	**145.8E**±.37	**71**			**6**	**0-2**
JMA	IX	22 08 50 39.8±.4	43.47N±.02	145.83E±.03	71±3			**¶97ix3251**	
ISC	Poorly determined								
ISC	**IX**	**22 12 01 12**±3.8	**43.0N**±.13	**143.3E**±.14	**137**±41			**12**	**0-2**
JMA	IX	22 12 01 12.0±.3	43.02N±.02	143.31E±.02	136±3			**¶97ix3272**	
ISC	**IX**	**22 19 27 33.7**±.43	**41.46N**±.042	**142.33E**±.070	**37**			**31**	**1-3**
JMA	IX	22 19 27 33.1±.1	41.46N±.01	142.30E±.01	37±4	3.0		**¶97ix3319**	
ISC	**IX**	**23 01 54 53**±1.2	**41.5N**±.13	**141.7E**±.15	**71**			**7**	**0-2**
JMA	IX	23 01 54 52.5±.2	41.44N±.01	141.70E±.01	71±3			**¶97ix3354**	
ISC	**IX**	**23 14 17 12**±1.7	**43.0N**±.11	**145.4E**±.17	**45**			**13**	**0-2**
JMA	IX	23 14 17 12.5±.3	43.01N±.02	145.37E±.03	45±4	3.1		**¶97ix3432**	
ISC	**IX**	**23 21 08 55**±5.3	**43.1N**±.33	**144.5E**±.25	**118**±52			**7**	**0-2**
JMA	IX	23 21 08 55.6±.2	43.13N±.02	144.45E±.02	110±2			**¶97ix3478**	
ISC	**IX**	**24 01 20 57**±1.3	**43.1N**±.23	**143.0E**±.29	**108**			**5**	**0-1**
JMA	IX	24 01 20 57.3±.1	43.06N±.03	142.94E±.03	108			**¶97ix3507**	
ISC	**IX**	**24 07 16 32**±2.1	**42.39N**±.095	**141.91E**±.091	**113**±27			**16**	**1-3**
JMA	IX	24 07 16 34.5±.2	42.39N±.01	141.91E±.01	85±3			**¶97ix3541**	
ISC	**IX**	**24 08 17 52**±2.8	**43.2N**±.11	**144.9E**±.19	**92**±31			**12**	**0-2**
JMA	IX	24 08 17 52.9±.2	43.25N±.01	144.89E±.02	85±3			**¶97ix3548**	
ISC	**IX**	**24 09 18 54.3**±.37	**41.69N**±.036	**142.12E**±.059	**47**			**31**	**1-3**
JMA	IX	24 09 18 54.1±.0	41.68N±.01	142.09E±.01	47±4	2.9		**¶97ix3557**	
ISC	**IX**	**24 09 34 47.0**±.36	**41.96N**±.028	**142.85E**±.057	**44**±15			**51**	**0-5**
JMA	IX	24 09 34 46.5±.1	41.94N±.01	142.83E±.01	51±3	3.6		**¶97ix3562**	
ISC	**IX**	**24 18 28 24**±4.2	**42.7N**±.14	**139.2E**±.37	**21**±19			**10**	**1-2**
JMA	IX	24 18 28 25.1±.4	42.74N±.02	139.28E±.04	28±5	2.8		**¶97ix3616**	
ISC	**IX**	**24 23 01 41**±2.1	**42.9N**±.17	**143.8E**±.14	**74**±25			**10**	**0-1**
JMA	IX	24 23 01 41.1±.2	42.88N±.02	143.82E±.02	70±3			**¶97ix3646**	
ISC	**IX**	**25 11 46 20**±4.3	**41.9N**±.19	**140.1E**±.53	**191**±29			**19**	**1-4**
JMA	IX	25 11 46 20.8±.4	41.90N±.02	140.06E±.06	184			**¶97ix3732**	
ISC	**IX**	**25 12 44 58**±1.7	**43.76N**±.085	**143.12E**±.093	**208**±17			**42**	**0-6**
JMA	IX	25 12 45 00.0±.2	43.73N±.01	143.09E±.02	190±3			**¶97ix3742**	
ISC	**IX**	**25 18 50 15**±4.1	**43.1N**±.20	**144.4E**±.21	**128**±41			**11**	**0-2**
JMA	IX	25 18 50 15.5±.3	43.10N±.02	144.40E±.02	117±3			**¶97ix3774**	
ISC	**IX**	**25 19 01 35**±1.1	**42.61N**±.064	**143.50E**±.082	**95**±15			**27**	**0-3**
JMA	IX	25 19 01 35.3±.2	42.63N±.01	143.48E±.01	87±2			**¶97ix3776**	
ISC	**IX**	**26 00 06 36**±3.7	**42.9N**±.18	**144.0E**±.20	**108**±39			**9**	**0-1**
JMA	IX	26 00 06 36.2±.3	42.92N±.02	144.04E±.02	100±3			**¶97ix3807**	
ISC	**IX**	**26 00 10 12.1**±.61	**42.17N**±.051	**142.60E**±.081	**55**±16			**24**	**0-4**
JMA	IX	26 00 10 11.9±.1	42.16N±.01	142.58E±.01	56±3	3.0		**¶97ix3808**	
ISC	**IX**	**26 02 41 53**±1.8	**42.2N**±.14	**143.4E**±.18	**36**±27			**17**	**0-2**
JMA	IX	26 02 41 52.2±.3	42.13N±.02	143.43E±.02	48±3	2.8		**¶97ix3848**	
ISC	**IX**	**26 03 25 27**±4.9	**42.7N**±.26	**139.9E**±.33	**177**±31			**21**	**1-4**
JMA	IX	26 03 25 25.8±.3	42.79N±.04	139.86E±.05	184			**¶97ix3856**	
ISC	**IX**	**26 04 05 33**±1.5	**42.57N**±.067	**142.01E**±.094	**145**±20			**28**	**0-4**
JMA	IX	26 04 05 34.6±.3	42.57N±.01	142.01E±.02	127±3			**¶97ix3869**	
ISC	**IX**	**26 05 41 22**±2.2	**43.5N**±.21	**145.9E**±.31	**92**			**7**	**0-2**
JMA	IX	26 05 41 22.1±.3	43.46N±.02	145.89E±.02	92±2			**¶97ix3887**	
ISC	**IX**	**26 07 27 29.3**±.63	**43.3N**±.12	**144.0E**±.15	**134**			**13**	**0-3**
JMA	IX	26 07 27 29.2±.3	43.25N±.02	144.02E±.02	134±3			**¶97ix3908**	
ISC	**IX**	**26 14 02 37**±4.7	**43.2N**±.17	**145.3E**±.29	**95**±41			**10**	**0-2**
JMA	IX	26 14 02 37.3±.2	43.22N±.01	145.30E±.02	94±2			**¶97ix4030**	
ISC	**IX**	**26 14 46 23**±2.9	**43.0N**±.22	**145.2E**±.17	**16**±29			**7**	**0-1**
JMA	IX	26 14 46 21.9±.5	42.89N±.03	145.32E±.03	39±4	3.0		**¶97ix4046**	
ISC	**IX**	**26 17 57 00**±2.0	**43.0N**±.14	**145.4E**±.19	**47**			**12**	**0-3**
JMA	IX	26 17 56 59.4±.3	42.95N±.02	145.41E±.02	47±3	2.9		**¶97ix4098**	
ISC	**IX**	**26 18 16 35.4**±.77	**42.00N**±.074	**142.74E**±.067	**36**±19			**23**	**0-3**
JMA	IX	26 18 16 35.0±.1	42.00N±.01	142.73E±.01	43±3	3.0		**¶97ix4104**	
ISC	**IX**	**26 18 29 49.3**±.77	**42.57N**±.047	**142.77E**±.069	**118**±13			**45**	**0-6**
JMA	IX	26 18 29 50.8±.2	42.60N±.01	142.71E±.01	99±2			**¶97ix4108**	
ISC	**IX**	**26 22 44 52.0**±.77	**41.13N**±.041	**141.6E**±.11	**78**±21			**28**	**1-4**
JMA	IX	26 22 44 52.6±.1	41.12N±.00	141.59E±.01	70±2			**¶97ix4167**	
JMA	**IX**	**27 01 12 30.4**±.1	**43.25N**±.01	**145.27E**±.00	**103**±1			**¶97ix4209**	
ISC	**IX**	**27 08 45 45**±4.9	**42.7N**±.15	**143.3E**±.20	**117**±48			**11**	**0-2**
JMA	IX	27 08 45 45.7±.3	42.70N±.02	143.30E±.02	106±3			**¶97ix4305**	
ISC	**IX**	**27 20 37 52**±10	**43.1N**±.24	**145.9E**±.91	**64**±56			**10**	**0-3**
JMA	IX	27 20 37 50.6±.2	43.12N±.01	146.03E±.02	71±2			**¶97ix4452**	
ISC	**IX**	**27 21 53 15.1**±.38	**42.60N**±.033	**142.88E**±.056	**34**±24			**35**	**0-4**
JMA	IX	27 21 53 14.8±.2	42.62N±.01	142.86E±.02	41±4	3.3		**¶97ix4464**	
ISC	**IX**	**28 06 18 12**±9.2	**42.0N**±.16	**139.2E**±.79	**11**			**6**	**0-1**
JMA	IX	28 06 18 14.1±.5	41.99N±.01	139.35E±.04	11±3	2.8		**¶97ix4562**	
ISC	**IX**	**28 23 26 49.8**±.95	**42.56N**±.050	**142.38E**±.077	**134**±14			**37**	**0-6**
JMA	IX	28 23 26 51.2±.2	42.60N±.01	142.35E±.01	119±2			**¶97ix4789**	
ISC	**IX**	**29 01 06 40**±7.5	**44.5N**±.45	**142.0E**±.30	**270**±57			**23**	**0-6**
JMA	IX	29 01 06 44.1±.3	44.29N±.02	142.03E±.03	232±3			**¶97ix4815**	
ISC	**IX**	**29 08 20 13**±1.5	**42.1N**±.11	**142.51E**±.080	**72**±21			**19**	**0-2**
JMA	IX	29 08 20 13.2±.2	42.17N±.02	142.50E±.01	69±3			**¶97ix4908**	
ISC	**IX**	**29 13 14 07.5**±.42	**41.45N**±.038	**142.57E**±.072	**34**			**32**	**1-3**
JMA	IX	29 13 14 06.9±.1	41.44N±.01	142.53E±.01	34±4	2.8		**¶97ix4954**	
ISC	**IX**	**29 21 45 07**±5.5	**41.25N**±.054	**139.0E**±.23	**14**±42			**17**	**1-3**
JMA	IX	29 21 45 07.2±.2	41.23N±.01	138.99E±.02	24±4	3.4		**¶97ix5032**	
JMA	**IX**	**29 21 46 55.3**±.6	**41.30N**±.02	**139.24E**±.03	**0**	**3.0**		**¶97ix5033**	
JMA	**IX**	**29 22 56 21.5**±.3	**41.24N**±.01	**139.15E**±.03	**7**±3	**2.8**		**¶97ix5046**	
ISC	**IX**	**29 22 57 22.2**±.27	**41.57N**±.026	**142.10E**±.054	**75**±4.3	**3.8b**		**65**	**1-74**
JMA	IX	29 22 57 22.5±.1	41.54N±.01	142.08E±.01	62±4			**¶97ix5048**	
NEIC	IX	29 22 57 24.7	41.52N	141.92E	100				
EIDC	IX	29 22 57 25.0	41.6N	142.0E	84	3.6b			
NEIC	Less reliable solution.								
ISC	**IX**	**30 09 26 02**±1.7	**41.77N**±.064	**141.5E**±.15	**125**±23			**25**	**0-3**
JMA	IX	30 09 26 02.7±.2	41.74N±.01	141.57E±.01	111±3			**¶97ix5187**	
ISC	**IX**	**30 22 24 27.6**±.56	**42.16N**±.074	**142.28E**±.077	**45**±8.0	**3.9b**		**20**	**0-86**
SKHL	IX	30 22 24 27.0	42.0N±.09	142.2E±.10	35			**¶97ix5324**	
JMA	IX	30 22 24 27.3±.0	42.13N±.00	142.30E±.01	35±2	4.0			
EIDC	IX	30 22 25 03.7	43.5N	142.4E	304	3.2b			
SKHL	K10								
JMA	Felt I=II J1								
ISC	**X**	**01 00 39 26**±1.0	**43.9N**±.20	**142.4E**±.21	**214**			**10**	**0-3**
JMA	X	01 00 39 26.5±.4	43.91N±.02	142.37E±.03	214±3			**¶97x0002**	
ISC	**X**	**01 01 07 11**±2.6	**41.4N**±.12	**141.4E**±.86	**85**			**5**	**0-1**
JMA	X	01 01 07 10.8±.2	41.33N±.01	141.34E±.02	85±2	1.9		**¶97x0005**	
ISC	**X**	**01 05 15 31**±1.5	**41.51N**±.077	**142.0E**±.11	**62**±41			**15**	**1-2**
JMA	X	01 05 15 31.4±.0	41.46N±.00	142.02E±.01	60±2	2.9		**¶97x0033**	
ISC	**X**	**01 11 45 57**±2.6	**42.5N**±.13	**144.0E**±.14	**92**±30			**12**	**0-2**
JMA	X	01 11 45 57.5±.2	42.51N±.01	143.94E±.01	83±3	2.4		**¶97x0076**	
ISC	**X**	**01 15 36 03**±2.2	**42.5N**±.13	**143.7E**±.13	**91**±25			**13**	**0-2**
JMA	X	01 15 36 03.6±.1	42.52N±.01	143.68E±.01	80±2	2.4		**¶97x0111**	
ISC	**X**	**01 17 21 14.0**±.60	**42.38N**±.070	**142.49E**±.082	**38**±11	**3.5b**		**14**	**0-64**
EIDC	X	01 17 21 10.9	42.3N	143.1E	0	3.4b,3.5L		**¶97x0126**	
JMA	X	01 17 21 13.7±.0	42.38N±.00	142.44E±.00	30±1	3.6			
NEIC	X	01 17 21 13.7	42.14N	143.03E	33				
JMA	Felt I=II J1								
NEIC	Single network solution.								
ISC	**X**	**01 19 11 20**±5.6	**43.2N**±.17	**144.8E**±.18	**85**±60			**8**	**0-1**
JMA	X	01 19 11 20.9±.1	43.21N±.01	144.76E±.01	77±2	1.7		**¶97x0142**	
ISC	**X**	**02 08 45 43.6**±.88	**42.9N**±.13	**142.8E**±.20	**103**			**7**	**0-1**
JMA	X	02 08 45 43.6±.3	42.86N±.02	142.83E±.02	103±3			**¶97x0243**	
ISC	**X**	**02 09 07 39**±3.4	**43.5N**±.18	**145.9E**±.40	**68**			**7**	**0-2**
JMA	X	02 09 07 39.3±.2	43.51N±.01	145.93E±.02	68±2	3.3		**¶97x0246**	
ISC	**X**	**02 12 38 28**±1.9	**43.2N**±.13	**140.2E**±.21	**8**±16			**7**	**0-1**
JMA	X	02 12 38 28.7±.2	43.22N±.01	140.22E±.02	12±3	2.9		**¶97x0284**	
ISC	**X**	**03 00 05 48**±4.5	**43.5N**±.15	**145.3E**±.25	**91**±40			**9**	**0-2**
JMA	X	03 00 05 48.3±.2	43.50N±.01	145.24E±.01	88±2	3.1		**¶97x0358**	
ISC	**X**	**03 00 07 17**±2.3	**43.2N**±.31	**142.2E**±.22	**147**			**6**	**1-2**
JMA	X	03 00 07 17.7±.2	43.06N±.04	142.23E±.03	147			**¶97x0359**	
ISC	**X**	**03 02 04 34**±2.0	**41.12N**±.075	**139.1E**±.25	**28**			**9**	**1-2**
JMA	X	03 02 04 32.8±.2	41.10N±.01	139.10E±.02	28±4	3.2		**¶97x0368**	
ISC	**X**	**03 04 46 33.8**±.52	**42.50N**±.038	**144.70E**±.042	**47**±3.8	**5.1b,4.6s**		**245**	**0-151**
BJI	X	03 04 46 31.6	42.59N	144.69E	32	5.2b,4.5s		**¶97x0390**	
NEIC	X	03 04 46 32.0	42.51N	144.66E	33	5.1b,4.6s			
MOS	X	03 04 46 32.1	42.5N	144.7E	33	5.5b,4.6s			
SKHL	X	03 04 46 33.0	42.4N±.07	144.9E±.19	65±4				
JMA	X	03 04 46 33.6±.2	42.51N±.01	144.82E±.02	50±3	4.9			
HRVD	X	03 04 46 33.7±1.2	42.34N±.14	145.28E±.18	15				
EIDC	X	03 04 46 38.6	42.5N	144.6E	76	4.5b			
NEIC	Mw5.2(HRV)								
NEIC	Felt I=III J1 in southeastern Hokkaido.								
JMA	Nodal plane solution: N71, Score 93%. NP1:ϕ_S267°,δ21°,λ139°. NP2:ϕ_S37°,δ76°,λ74°. Principle axes: T Plg56°,Azm286°; N Plg16°,Azm41°; P Plg29°,Azm140°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c22; Half duration: 1$\hat{0}$. Moment tensor: Scale 10^{16}Nm; M_{rr}3.35±.66; $M_{\theta\theta}$0.03±.54; $M_{\phi\phi}$−3.38±.68; $M_{r\theta}$2.34±1.78; $M_{r\phi}$5.19±1.75; $M_{\theta\phi}$−3.14±.76. Principal Axes: T 6.23,Plg63°,Azm284°; N 1.83,Plg6°,Azm26°; P −8.07,Plg26°,Azm119°. Best double couple: $M_0$7.2×10^{16}Nm, NP1: ϕ_S223°,δ19°,λ108°. NP2:ϕ_S24°,δ72°,λ84°.								
ISC	**X**	**03 06 25 54.7**±.66	**41.46N**±.052	**142.36E**±.089	**39**			**16**	**1-2**
JMA	X	03 06 25 54.3±.1	41.45N±.00	142.34E±.01	39±3	3.3		**¶97x0407**	

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	*n*	Δ-Rng °
ISC	**X**	**03 14 49 21**±4.9	**43.0N**±.32	**145.6E**±.73	**32**±41		**8**	**0-2**
JMA	X	03 14 49 20.1±.2	42.91N±.01	145.63E±.02	48±2	2.9		¶**97x0478**
ISC	**X**	**03 15 03 39**±3.5	**43.5N**±.17	**142.0E**±.13	**203**±34		**19**	**0-3**
JMA	X	03 15 03 40.4±.2	43.47N±.01	142.04E±.01	189±2			¶**97x0484**
ISC	**X**	**04 20 30 55**±2.0	**41.47N**±.097	**143.3E**±.14	**30**±17		**14**	**1-2**
JMA	X	04 20 30 54.4±.1	41.47N±.01	143.25E±.02	43±4	2.9		¶**97x0723**
ISC	**X**	**05 01 45 46.0**±.38	**44.15N**±.045	**145.61E**±.065	**168**±3.2	**4.4b**	**107**	**0-149**
MOS	X	05 01 45 46.2	44.2N	145.6E	171	5.0b		¶**97x0781**
NEIC	X	05 01 45 46.2	44.16N	145.52E	170	4.5b		
BJI	X	05 01 45 46.5	44.46N	145.40E	153	4.7b		
JMA	X	05 01 45 47.0±.2	43.95N±.02	145.71E±.02	159±2	4.3		
SKHL	X	05 01 45 47.0	44.5N±.07	145.9E±.10	181±3			
EIDC	X	05 01 45 47.8	44.2N	145.4E	172	4.0b		
SKHL	K10							
ISC	**X**	**05 08 25 52**±1.9	**44.4N**±.11	**144.1E**±.11	**1**±22		**8**	**1-1**
JMA	X	05 08 25 53.6±.2	44.31N±.01	144.04E±.01	8±3	2.9		¶**97x0831**
ISC	**X**	**05 09 04 43**±1.8	**42.9N**±.22	**143.6E**±.88	**112**		**7**	**0-1**
JMA	X	05 09 04 42.4±.2	42.85N±.01	143.81E±.02	112±2			¶**97x0841**
ISC		Poorly determined						
ISC	**X**	**05 20 39 07**±4.0	**43.0N**±.37	**145.7E**±.38	**68**		**7**	**0-2**
JMA	X	05 20 39 07.5±.2	42.95N±.01	145.69E±.02	68±2	3.0		¶**97x0929**
ISC	**X**	**05 21 39 48**±6.9	**45.4N**±.51	**141.9E**±.19	**40**±56		**6**	**0-1**
JMA	X	05 21 39 49.0±.1	45.27N±.01	141.86E±.01	34±2	3.1		¶**97x0938**
ISC	**X**	**06 01 22 32**±1.9	**45.5N**±.25	**142.5E**±.30	**317**		**9**	**0-4**
JMA	X	06 01 22 32.5±.2	45.49N±.03	142.42E±.05	317			¶**97x0963**
JMA	**X**	**06 05 09 52.9**±.3	**43.03N**±.02	**143.68E**±.02	**132**±3			¶**97x0993**
ISC	**X**	**06 09 18 43.0**±.46	**41.98N**±.059	**142.29E**±.074	**80**±5.4	**3.7b**	**28**	**0-123**
NEIC	X	06 09 18 42.6	41.99N	142.26E	77			¶**97x1024**
JMA	X	06 09 18 43.7±.0	41.99N±.00	142.28E±.00	68±1	3.8		
EIDC	X	06 09 18 45.1	42.0N	142.2E	81	3.5b,2.8s		
JMA		Nodal plane solution: N48, Score 100%. NP1:ϕ_S72°,δ44°,λ−115°. NP2:ϕ_S285°,δ51°,λ−67°. Principle axes: T Plg4°,Azm359°; N Plg17°,Azm90°; P Plg73°,Azm256°.						
ISC	**X**	**06 14 46 32.3**±.95	**41.62N**±.064	**140.8E**±.15	**12**±13		**7**	**0-1**
JMA	X	06 14 46 32.6±.0	41.62N±.00	140.84E±.01	14±2	2.8		¶**97x1064**
ISC	**X**	**06 17 58 42**±3.4	**42.9N**±.16	**145.2E**±.23	**94**±32		**12**	**0-2**
JMA	X	06 17 58 42.5±.2	42.91N±.01	145.14E±.02	89±2	3.1		¶**97x1091**
ISC	**X**	**07 02 17 12**±1.8	**42.8N**±.13	**144.9E**±.16	**48**±30		**10**	**0-2**
JMA	X	07 02 17 11.6±.1	42.77N±.01	144.88E±.01	50±2	4.0		¶**97x1157**
JMA		Felt I=II J1						
JMA		Nodal plane solution: N23, Score 96%. NP1:ϕ_S262°,δ11°,λ−153°. NP2:ϕ_S145°,δ85°,λ−79°. Principle axes: T Plg39°,Azm226°; N Plg10°,Azm325°; P Plg49°,Azm66°.						
ISC	**X**	**07 08 08 24**±2.5	**41.98N**±.098	**141.3E**±.13	**99**±28		**12**	**0-2**
JMA	X	07 08 08 24.2±.1	41.97N±.01	141.24E±.01	95±2			¶**97x1209**
ISC	**X**	**07 08 29 18.9**±.85	**44.6N**±.14	**142.4E**±.21	**238**		**16**	**0-3**
JMA	X	07 08 29 18.8±.3	44.63N±.02	142.36E±.02	238±2			¶**97x1217**
ISC	**X**	**07 23 40 18**±2.3	**43.0N**±.19	**145.4E**±.21	**46**		**7**	**0-2**
JMA	X	07 23 40 18.0±.2	42.98N±.01	145.38E±.02	46±2	2.9		¶**97x1323**
ISC	**X**	**07 23 48 41**±4.0	**41.1N**±.11	**141.1E**±.87	**142**±46		**9**	**0-2**
JMA	X	07 23 48 41.4±.1	41.15N±.01	141.04E±.01	137±2			¶**97x1325**
ISC	**X**	**08 21 20 57.7**±.86	**41.92N**±.024	**144.84E**±.031	**17**±5.8	**5.5b,5.7s**	**573**	**1-154**
JMA	X	08 21 20 57.8±.4	41.89N±.02	145.05E±.03	41	5.6		¶**97x1480**
BJI	X	08 21 20 58.6	41.93N	144.41E	10	5.7b,6.1s		
SKHL	X	08 21 20 59.0	41.9N±.14	144.8E±.24	28±3			
NEIC	X	08 21 20 59.7	41.91N	144.82E	33	5.5b,5.6s		
HRVD	X	08 21 20 59.9±.2	41.76N±.02	145.44E±.03	16			
MOS	X	08 21 21 01.1	42.2N	144.8E	33	6.0b,6.1s		
EIDC	X	08 21 21 03.0	42.0N	144.7E	49	4.8b		
JMA		Felt I=II J1						
NEIC		Mw5.9(GS), Me5.8(GS). Felt I=III MM.						
NEIC		Radiated energy from the P−wave first−motion solution: 1.0±0.3×10^{13}Nm/8						
NEIC		Mw 5.9 (HRV). Felt I=II J in southeastern Hokkaido and I J in Aomori Prefecture, Honshu.						
NEIC		Broadband fault plane solution: P waves. NP1:ϕ_S15°,δ70°,λ60°. NP2:ϕ_S254°,δ36°,λ144°. Principal axes: T Plg55°,Azm247°; P Plg19°,Azm127°. Depth from synthetics of broadband displacement seismograms.						
NEIC		Moment tensor solution: s34, scale 10^{17}Nm; M_{rr}1.01; $M_{\theta\theta}$−0.37; $M_{\phi\phi}$−0.64; $M_{r\theta}$3.26; $M_{r\theta}$6.19; $M_{\theta\phi}$−1.40. Depth 15km; Principal axes: T 6.80,Plg50°,Azm291°; N 0.72,Plg5°, Azm28°; P −7.52,Plg39°,Azm122°. Best double couple: $M_0$7.2×10^{17}Nm; NP1:ϕ_S253°,δ8°, λ135°. NP2:ϕ_S27°,δ84°,λ84°.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c93; Mantle waves: s9,c15; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}3.39±.07; $M_{\theta\theta}$−1.00±.07; $M_{\phi\phi}$−2.39±.11; $M_{r\theta}$2.43±.20; $M_{r\phi}$6.06±.20; $M_{\theta\phi}$−2.65±.08. Principal Axes: T 7.27,Plg59°,Azm280°; N 0.74,Plg10°,Azm26°; P −8.01,Plg29°,Azm121°. Best double couple: $M_0$7.6×10^{17}Nm, NP1:ϕ_S238°,δ18°,λ123°. NP2:ϕ_S23°,δ75°,λ80°.						
ISC	**X**	**08 21 58 29**±1.6	**41.83N**±.081	**145.3E**±.16	**32**		**21**	**1-4**
JMA	X	08 21 58 31.0±.5	42.03N±.03	145.11E±.04	32	3.5		¶**97x1484**
JMA	**X**	**09 00 25 46.3**±.3	**43.35N**±.02	**145.49E**±.02	**65**±2	**2.1**		¶**97x1496**
ISC	**X**	**09 00 39 54**±3.0	**42.1N**±.21	**144.8E**±.22	**27**		**10**	**1-2**
JMA	X	09 00 39 53.0±.5	42.04N±.03	144.90E±.03	27	3.1		¶**97x1500**
ISC	**X**	**09 00 49 41**±2.8	**41.49N**±.098	**143.8E**±.19	**24**±23		**11**	**1-3**
JMA	X	09 00 49 40.0±.2	41.43N±.01	143.82E±.02	24	3.1		¶**97x1501**
ISC	**X**	**09 02 25 15**±3.3	**42.1N**±.21	**145.1E**±.25	**35**		**12**	**1-3**
JMA	X	09 02 25 15.8±.6	42.20N±.03	145.04E±.04	35	3.2		¶**97x1507**
ISC	**X**	**09 03 29 13.0**±.71	**42.15N**±.051	**144.53E**±.053	**50**±4.8	**4.9b,5.0s**	**208**	**1-151**
EIDC	X	09 03 29 07.6	42.1N	144.5E	0	4.4b,4.8s		¶**97x1514**
JMA	X	09 03 29 07.7±.2	41.90N±.02	145.00E±.02	44	5.1		
HRVD	X	09 03 29 07.7±1.2	41.71N±.08	145.58E±.11	15			
SKHL	X	09 03 29 09.0	42.0N±.05	145.0E±.13	35±3			
NEIC	X	09 03 29 10.7	42.13N	144.44E	33	5.1b,4.8s		
MOS	X	09 03 29 10.8	42.0N	144.5E	33	5.6b,5.0s		
BJI	X	09 03 29 11.2	41.97N	144.39E	32	5.1b,5.1s		
JMA		Felt I=II J1						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c37; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}4.89±.39; $M_{\theta\theta}$−1.54±.34; $M_{\phi\phi}$−3.35±.46; $M_{r\theta}$2.47±1.34; $M_{r\phi}$9.77±1.26; $M_{\theta\phi}$−3.91±.47. Principal Axes: T 11.4,Plg56°,Azm270°; N 0.5, Plg13°,Azm20°; P −11.9,Plg30°,Azm118°. Best double couple: $M_0$1.2×10^{17}Nm, NP1: ϕ_S243°,δ19°,λ134°. NP2:ϕ_S17°,δ77°,λ77°.						
SKHL	K11.5							
NEIC		Mw5.4(HRV). Felt I=III MM.						
NEIC		Felt I=II J1 in south-central Hokkaido.						
ISC	**X**	**09 03 37 59**±3.3	**42.0N**±.23	**145.0E**±.25	**49**		**11**	**1-3**
JMA	X	09 03 37 58.9±.2	42.00N±.02	144.95E±.02	49	3.1		¶**97x1516**
ISC	**X**	**09 03 54 51**±3.3	**42.1N**±.22	**145.0E**±.25	**26**		**9**	**1-2**
JMA	X	09 03 54 50.4±.6	42.05N±.03	145.07E±.04	26	3.0		¶**97x1518**
ISC	**X**	**09 04 00 49**±1.0	**41.92N**±.035	**144.83E**±.038	**18**±6.6	**5.2b,5.1s**	**322**	**1-154**
EIDC	X	09 04 00 46.8	42.0N	144.8E	0	4.7b,5.0s		¶**97x1519**
JMA	X	09 04 00 48.8±.2	41.90N±.01	144.97E±.02	40	5.0		
SKHL	X	09 04 00 49.0	42.0N±.10	144.9E±.05	33±4			
BJI	X	09 04 00 50.1	42.01N	144.44E	17	5.4b,5.3s		
HRVD	X	09 04 00 50.4±.6	41.64N±.07	145.39E±.10	15±3.2			
NEIC	X	09 04 00 50.4	41.92N	144.75E	33	5.3b,5.0s		
MOS	X	09 04 00 50.9	42.0N	144.8E	33	5.9b,5.1s		
JMA		Felt I=II J1						
SKHL	K11.5							
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c51; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.79±.05; $M_{\theta\theta}$−0.35±.04; $M_{\phi\phi}$−0.44±.07; $M_{r\theta}$0.33±.17; $M_{r\phi}$1.62±.42; $M_{\theta\phi}$−0.28±.05. Principal Axes: T 1.91,Plg56°,Azm275°; N −0.22, Plg7°,Azm16°; P −1.69,Plg33°,Azm111°. Best double couple: $M_0$1.8×10^{17}Nm, NP1:ϕ_S229°, δ14°,λ123°. NP2:ϕ_S14°,δ79°,λ82°.						
NEIC		Mw5.5(HRV)						
NEIC		Felt I=II J1 in south eastern Hokkaido.						
ISC	**X**	**09 04 02 58**±1.9	**42.0N**±.13	**145.0E**±.18	**44**±10	**5.1b**	**31**	**1-78**
JMA	X	09 04 02 56.8±.3	41.93N±.02	145.00E±.03	50	4.8		¶**97x1520**
NEIC	X	09 04 03 01.3	42.56N	144.27E	33	5.1b		
MOS	X	09 04 03 01.5	42.5N	144.3E	33	5.3b		
NEIC		Poor solution.						
ISC	**X**	**09 05 44 11**±3.9	**42.0N**±.25	**145.2E**±.29	**49**		**10**	**1-2**
JMA	X	09 05 44 11.3±.6	41.98N±.03	145.16E±.05	49	3.1		¶**97x1535**
JMA	**X**	**09 12 13 47.0**±.4	**42.94N**±.02	**139.30E**±.03	**29**±4	**2.8**		¶**97x1580**
ISC	**X**	**09 16 28 47**±1.2	**41.56N**±.061	**142.07E**±.085	**47**±61		**18**	**1-2**
JMA	X	09 16 28 46.7±.1	41.55N±.01	142.06E±.01	57±2	3.1		¶**97x1607**
ISC	**X**	**09 17 19 05**±3.7	**42.8N**±.22	**145.3E**±.24	**50**±48		**8**	**0-1**
JMA	X	09 17 19 06.0±.2	42.86N±.02	145.23E±.02	47±2	3.0		¶**97x1608**
ISC	**X**	**09 17 44 02**±2.9	**42.0N**±.18	**145.1E**±.22	**61**±57		**16**	**1-3**
JMA	X	09 17 44 00.9±.3	41.93N±.02	144.97E±.02	38	3.4		¶**97x1611**
ISC	**X**	**10 00 24 39**±3.7	**42.6N**±.14	**142.7E**±.12	**114**±40		**13**	**0-2**
JMA	X	10 00 24 38.5±.2	42.58N±.01	142.72E±.01	116±2			¶**97x1668**
ISC	**X**	**10 03 27 31**±2.9	**41.9N**±.19	**145.0E**±.24	**92**±50		**12**	**1-3**
JMA	X	10 03 27 31.4±.4	41.97N±.02	144.86E±.03	44	2.9		¶**97x1686**
ISC	**X**	**10 06 26 18**±2.6	**41.9N**±.16	**145.1E**±.24	**43**		**11**	**1-3**
JMA	X	10 06 26 17.8±.3	41.93N±.02	145.00E±.02	43	3.1		¶**97x1706**
ISC	**X**	**10 09 51 09**±2.7	**41.9N**±.16	**145.2E**±.25	**44**		**12**	**1-3**
JMA	X	10 09 51 08.9±.4	41.94N±.02	145.06E±.03	44	3.0		¶**97x1732**
ISC	**X**	**10 14 21 05**±2.5	**41.9N**±.15	**145.1E**±.21	**40**		**14**	**1-3**
JMA	X	10 14 21 04.3±.4	41.94N±.02	144.99E±.03	40	3.1		¶**97x1758**
ISC	**X**	**10 21 04 08.0**±.52	**41.57N**±.049	**142.09E**±.083	**72**±5.8	**3.8b**	**30**	**1-65**
JMA	X	10 21 04 08.2±.1	41.56N±.00	142.06E±.01	61±2	3.8		¶**97x1800**
EIDC	X	10 21 04 09.3	41.6N	142.4E	74	3.6b		
NEIC	X	10 21 04 09.7	41.54N	142.15E	100	3.7b		
NEIC		Less reliable solution.						
ISC	**X**	**11 01 51 04**±2.3	**43.8N**±.29	**145.8E**±.38	**127**		**6**	**0-2**
JMA	X	11 01 51 04.3±.4	43.79N±.03	145.86E±.04	127±3			¶**97x1826**
ISC	**X**	**11 04 14 34.9**±.99	**44.5N**±.13	**141.3E**±.30	**264**		**12**	**0-3**
JMA	X	11 04 14 35.0±.1	44.50N±.02	141.29E±.04	264			¶**97x1844**
ISC	**X**	**11 17 20 04**±2.5	**42.4N**±.14	**143.2E**±.13	**57**±31		**9**	**0-1**
JMA	X	11 17 20 03.1±.2	42.39N±.01	143.19E±.01	60±3	2.4		¶**97x1915**
ISC	**X**	**11 19 39 43**±1.0	**41.97N**±.033	**144.90E**±.038	**18**±6.6	**5.3b,5.0s**	**352**	**1-153**
EIDC	X	11 19 39 41.2	42.0N	144.8E	0	4.9b,4.8s		¶**97x1929**
JMA	X	11 19 39 43.2±.3	41.95N±.02	145.03E±.02	43	5.1		
BJI	X	11 19 39 43.7	42.02N	144.45E	11	5.6b,5.2s		
SKHL	X	11 19 39 44.0	42.0N±.10	144.9E±.05	30±4			
NEIC	X	11 19 39 44.5	41.95N	144.83E	33	5.3b,4.8s		
HRVD	X	11 19 39 44.9±.7	41.73N±.06	145.60E±.09	31±3.6			
MOS	X	11 19 39 46.3	42.4N	144.9E	32	5.8b,5.3s		
NEIC		Mw5.3(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c40; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}6.50±.39; $M_{\theta\theta}$−1.91±.39; $M_{\phi\phi}$−4.59±.51; $M_{r\theta}$1.65±.92; $M_{r\phi}$5.11±.94; $M_{\theta\phi}$−3.44±.46. Principal Axes: T 8.50,Plg69°,Azm275°; N 0.22, Plg9°,Azm28°; P −8.72,Plg19°,Azm121°. Best double couple: $M_0$8.6×10^{16}Nm, NP1:ϕ_S225°, δ27°,λ109°. NP2:ϕ_S24°,δ64°,λ80°.						
ISC	**X**	**11 19 50 37**±1.9	**42.2N**±.11	**142.8E**±.13	**66**±24		**11**	**0-2**
JMA	X	11 19 50 36.6±.1	42.23N±.01	142.81E±.01	65±1	2.7		¶**97x1932**
ISC	**X**	**11 20 36 59**±2.4	**42.0N**±.15	**145.1E**±.22	**59**±62		**16**	**1-3**
JMA	X	11 20 36 58.5±.2	41.95N±.01	145.05E±.02	49	3.1		¶**97x1938**
ISC	**X**	**11 20 52 55**±1.8	**41.9N**±.11	**145.2E**±.16	**39**±12	**4.1b**	**25**	**1-67**
EIDC	X	11 20 52 52.7	42.0N	144.8E	0	3.7L,4.0b		¶**97x1940**
JMA	X	11 20 52 55.2±.3	41.99N±.02	145.04E±.03	35	3.8		
NEIC	X	11 20 52 55.4	42.01N	144.67E	33			
NEIC		Less reliable solution.						
ISC	**X**	**12 16 52 04**±2.7	**43.0N**±.16	**144.8E**±.16	**66**±28		**10**	**0-2**
JMA	X	12 16 52 04.6±.2	43.00N±.01	144.78E±.01	62±2	2.3		¶**97x2072**
ISC	**X**	**12 17 21 46**±3.6	**43.3N**±.13	**145.0E**±.20	**85**±39		**10**	**0-2**
JMA	X	12 17 21 46.7±.1	43.28N±.01	144.93E±.01	81±1	3.0		¶**97x2077**
ISC	**X**	**13 08 04 50**±4.0	**43.0N**±.26	**145.2E**±.26	**70**±46		**7**	**0-1**
JMA	X	13 08 04 50.2±.2	42.97N±.01	145.16E±.01	66±2	2.5		¶**97x2182**
ISC	**X**	**13 12 18 18.6**±.64	**44.36N**±.055	**142.12E**±.076	**9**		**10**	**0-1**
JMA	X	13 12 18 19.0±.0	44.35N±.00	142.11E±.00	9±2	3.1		¶**97x2215**
ISC	**X**	**13 14 50 00**±4.1	**43.5N**±.18	**142.2E**±.15	**176**±41		**13**	**0-3**
JMA	X	13 14 50 01.6±.3	43.43N±.02	142.19E±.02	164±3			¶**97x2239**
ISC	**X**	**13 21 07 12.0**±.80	**41.29N**±.055	**142.6E**±.12	**34**		**16**	**1-2**
JMA	X	13 21 07 11.4±.1	41.27N±.01	142.57E±.01	34±5	3.0		¶**97x2285**
ISC	**X**	**13 23 42 40**±4.4	**43.2N**±.23	**145.3E**±.28	**56**±56		**6**	**0-2**
JMA	X	13 23 42 39.8±.2	43.16N±.02	145.26E±.02	60±2	2.1		¶**97x2306**
ISC	**X**	**14 00 32 14**±3.1	**41.5N**±.15	**141.5E**±.18	**75**±44		**7**	**0-1**
JMA	X	14 00 32 14.0±.1	41.45N±.01	141.50E±.01	76±2	2.7		¶**97x2313**
ISC	**X**	**14 04 23 52**±2.8	**42.7N**±.16	**143.3E**±.17	**117**±31		**9**	**0-2**
JMA	X	14 04 23 53.1±.3	42.71N±.02	143.35E±.02	107±3			¶**97x2336**
ISC	**X**	**14 08 02 38**±1.4	**41.6N**±.13	**141.5E**±.58	**127**		**7**	**0-2**
JMA	X	14 08 02 38.3±.3	41.57N±.01	141.50E±.04	127±3			¶**97x2359**
ISC	**X**	**14 13 56 25**±3.7	**42.0N**±.17	**145.1E**±.21	**21**±24		**18**	**1-3**
JMA	X	14 13 56 26.3±.4	42.02N±.03	145.00E±.03	36	3.6		¶**97x2417**
JMA	**X**	**14 18 32 56.4**±.2	**41.46N**±.01	**141.84E**±.03	**71**±3	**2.2**		¶**97x2467**
ISC	**X**	**15 10 03 48**±1.7	**42.98N**±.081	**143.48E**±.086	**98**±20		**17**	**0-2**
JMA	X	15 10 03 48.0±.1	42.95N±.01	143.47E±.01	93±2			¶**97x2602**
ISC	**X**	**15 20 00 42**±2.8	**43.38N**±.091	**144.3E**±.15	**117**±29		**15**	**0-2**
JMA	X	15 20 00 43.1±.2	43.34N±.01	144.27E±.01	110±2			¶**97x2702**
ISC	**X**	**15 20 55 20**±3.5	**43.7N**±.46	**145.7E**±.31	**89**		**5**	**0-2**
JMA	X	15 20 55 19.2±.4	43.77N±.02	145.74E±.03	89±3	2.2		¶**97x2717**
ISC	**X**	**16 05 01 16.2**±.90	**43.6N**±.16	**144.9E**±.18	**108**		**8**	**0-1**
JMA	X	16 05 01 16.2±.1	43.56N±.01	144.91E±.01	108±2			¶**97x2790**
ISC	**X**	**16 07 24 00**±2.4	**43.3N**±.40	**145.8E**±.34	**85**		**7**	**0-2**
JMA	X	16 07 24 00.0±.3	43.28N±.02	145.82E±.02	85±2	2.4		¶**97x2806**
ISC	**X**	**16 16 05 14**±5.5	**41.9N**±.14	**139.8E**±.37	**189**±45		**15**	**0-3**
JMA	X	16 16 05 14.7±.2	41.93N±.01	139.86E±.02	181±2			¶**97x2856**
ISC	**X**	**16 20 57 54**±5.4	**43.2N**±.16	**141.8E**±.15	**164**±54		**14**	**0-2**
JMA	X	16 20 57 53.8±.2	43.17N±.01	141.78E±.02	163±2			¶**97x2878**
ISC	**X**	**16 23 06 36**±1.3	**43.4N**±.18	**142.2E**±.28	**169**		**5**	**1-2**
JMA	X	16 23 06 36.1±.4	43.35N±.02	142.14E±.03	169±3			¶**97x2894**

ISC	X	**17 06 35 05**±3.0	**42.1N**±.20	**145.1E**±.23	**15**			**8**	**1-2**	
JMA	X	17 06 35 05.2±.4	42.15N±.02	145.06E±.03	15	2.8		**¶97x2938**		
ISC	X	**17 11 09 03**±2.9	**43.1N**±.10	**141.8E**±.12	**165**±31			**15**	**0-2**	
JMA	X	17 11 09 03.1±.1	43.12N±.01	141.76E±.01	163±2			**¶97x2969**		
ISC	X	**17 11 23 43**±1.8	**41.31N**±.074	**142.9E**±.17	**16**±27			**13**	**1-2**	
JMA	X	17 11 23 42.7±.2	41.29N±.01	142.90E±.02	25±4	2.8		**¶97x2976**		
ISC	X	**17 12 33 56.3**±.70	**43.2N**±.11	**144.4E**±.14	**127**			**11**	**0-2**	
JMA	X	17 12 33 56.3±.2	43.22N±.01	144.37E±.02	127±2			**¶97x2985**		
ISC	X	**17 14 56 47**±1.0	**41.23N**±.073	**143.4E**±.13	**51**			**18**	**1-3**	
JMA	X	17 14 56 47.2±.1	41.23N±.01	143.33E±.01	51±4	3.0		**¶97x3011**		
ISC	X	**18 02 19 22.9**±.92	**41.58N**±.060	**142.06E**±.083	**26**±11			**16**	**1-2**	
JMA	X	18 02 19 22.9±.1	41.57N±.01	142.05E±.01	58±3	3.1		**¶97x3087**		
ISC	X	**18 03 22 35**±2.7	**42.5N**±.14	**143.8E**±.16	**89**±31			**11**	**0-2**	
JMA	X	18 03 22 35.5±.2	42.54N±.01	143.69E±.01	87±2	2.7		**¶97x3095**		
ISC	X	**18 03 37 44.9**±.68	**41.15N**±.078	**141.1E**±.19	**126**			**10**	**0-2**	
JMA	X	18 03 37 44.8±.2	41.15N±.01	141.14E±.01	126±2			**¶97x3098**		
ISC	X	**18 10 26 14.3**±.30	**41.82N**±.046	**141.31E**±.069	**140**±2.9	**4.1b**		**74**	**0-153**	
EIDC	X	18 10 26 13.0	41.8N	141.3E	117	3.9b		**¶97x3140**		
NEIC	X	18 10 26 13.3	41.84N	141.26E	131	4.3b				
JMA	X	18 10 26 15.2±.1	41.82N±.00	141.41E±.01	130±2	4.0				
ISC	X	**18 11 44 30**±2.8	**42.0N**±.18	**145.1E**±.23	**43**			**16**	**1-3**	
JMA	X	18 11 44 30.2±.3	41.99N±.02	145.00E±.03	43	3.6		**¶97x3154**		
ISC	X	**18 16 56 04**±3.4	**42.8N**±.10	**143.4E**±.14	**111**±38			**15**	**0-2**	
JMA	X	18 16 56 04.5±.2	42.74N±.01	143.37E±.01	105±2			**¶97x3196**		
ISC	X	**18 17 37 52**±1.1	**41.40N**±.055	**141.76E**±.091	**67**±26			**18**	**1-2**	
JMA	X	18 17 37 51.4±.1	41.40N±.01	141.79E±.01	69±3	3.4		**¶97x3201**		
ISC	X	**18 17 53 24**±4.1	**43.3N**±.15	**145.0E**±.20	**81**±45			**8**	**0-1**	
JMA	X	18 17 53 23.6±.2	43.29N±.01	144.96E±.01	81±2	1.8		**¶97x3206**		
ISC	X	**18 23 18 18**±5.3	**42.6N**±.16	**142.8E**±.16	**118**±54			**11**	**0-1**	
JMA	X	18 23 18 17.4±.3	42.60N±.02	142.80E±.02	118±3			**¶97x3250**		
JMA	X	**19 02 14 46.7**±.3	**42.25N**±.01	**139.24E**±.02	**17**±2	**2.9**		**¶97x3272**		
ISC	X	**19 03 47 02**±2.8	**43.0N**±.13	**143.5E**±.22	**121**±30			**12**	**0-2**	
JMA	X	19 03 47 01.4±.2	42.99N±.01	143.44E±.01	122±2			**¶97x3280**		
ISC	X	**19 08 45 46**±3.5	**42.8N**±.12	**143.8E**±.15	**122**±37			**11**	**0-2**	
JMA	X	19 08 45 47.6±.2	42.78N±.01	143.78E±.01	108±2			**¶97x3318**		
ISC	X	**19 19 05 50**±3.1	**43.0N**±.18	**144.9E**±.19	**69**±32			**9**	**0-2**	
JMA	X	19 19 05 50.1±.2	42.98N±.01	144.90E±.01	67±2	2.5		**¶97x3383**		
ISC	X	**20 02 18 05**±2.6	**43.0N**±.11	**144.4E**±.14	**99**±28			**12**	**0-2**	
JMA	X	20 02 18 05.1±.2	42.98N±.01	144.37E±.01	92±2			**¶97x3420**		
ISC	X	**20 05 09 20**±1.2	**42.8N**±.11	**145.4E**±.13	**53**±8.0	**4.0b**		**22**	**1-84**	
NEIC	X	20 05 09 17.7	42.93N	145.29E	33			**¶97x3442**		
JMA	X	20 05 09 19.7±.3	42.87N±.02	145.47E±.02	48±3	4.1				
EIDC	X	20 05 09 25.0	43.1N	145.2E	75	3.7b,4.2L				
NEIC	Less reliable solution.									
ISC	X	**20 06 39 51**±3.5	**42.8N**±.15	**139.2E**±.36	**36**			**8**	**1-2**	
JMA	X	20 06 39 51.7±.2	42.74N±.01	139.36E±.02	36±3	3.1		**¶97x3455**		
ISC	X	**20 13 13 25**±1.5	**41.88N**±.075	**141.5E**±.24	**76**±26			**14**	**0-2**	
JMA	X	20 13 13 24.6±.1	41.87N±.01	141.49E±.01	84±2	2.4		**¶97x3501**		
JMA	X	**21 11 50 46.3**±.1	**44.24N**±.00	**141.07E**±.02	**9**±2	**2.8**		**¶97x3654**		
ISC	X	**21 14 41 20**±2.6	**41.22N**±.066	**141.4E**±.19	**116**±35			**14**	**0-2**	
JMA	X	21 14 41 20.7±.1	41.21N±.00	141.44E±.01	110±2			**¶97x3665**		
ISC	X	**21 23 39 28**±1.2	**43.3N**±.23	**145.2E**±.24	**110**			**6**	**0-2**	
JMA	X	21 23 39 27.8±.3	43.32N±.02	145.19E±.02	110±3			**¶97x3719**		
ISC	X	**22 13 28 40**±2.8	**42.6N**±.14	**143.6E**±.16	**73**±31			**9**	**0-1**	
JMA	X	22 13 28 40.5±.2	42.56N±.01	143.56E±.01	68±3	2.4		**¶97x3820**		
ISC	X	**22 15 42 22**±2.3	**44.1N**±.31	**144.7E**±.25	**156**			**7**	**0-2**	
JMA	X	22 15 42 22.9±.3	44.02N±.02	144.68E±.02	156±3			**¶97x3840**		
ISC	X	**22 18 19 27**±1.7	**41.83N**±.070	**140.8E**±.11	**126**±19			**20**	**0-3**	
JMA	X	22 18 19 27.7±.1	41.82N±.00	140.85E±.01	116±1			**¶97x3866**		
ISC	X	**22 18 54 38.3**±.80	**42.0N**±.10	**142.53E**±.092	**68**±7.2	**3.4b**		**18**	**0-74**	
NEIC	X	22 18 54 37.6	42.64N	142.63E	33			**¶97x3872**		
JMA	X	22 18 54 38.7±.0	42.03N±.00	142.53E±.01	58±1	3.6				
EIDC	X	22 18 54 46.4	42.7N	142.4E	95	3.2b				
NEIC	Poor solution.									
ISC	X	**22 20 36 47**±4.8	**42.9N**±.17	**143.2E**±.18	**88**±49			**7**	**0-1**	
JMA	X	22 20 36 47.0±.2	42.92N±.01	143.25E±.01	90±3	1.8		**¶97x3881**		
ISC	X	**22 23 57 55**±1.5	**43.4N**±.36	**145.2E**±.23	**79**			**4**	**0-2**	
JMA	X	22 23 57 55.5±.2	43.38N±.02	145.19E±.02	79±2	1.8		**¶97x3899**		
ISC	Poorly determined									
ISC	X	**23 09 58 57**±1.2	**41.11N**±.051	**142.0E**±.12	**53**±53			**14**	**1-2**	
JMA	X	23 09 58 56.9±.1	41.11N±.01	141.99E±.01	60±3	2.6		**¶97x3965**		
ISC	X	**23 10 55 28**±4.7	**43.2N**±.13	**144.2E**±.14	**86**±51			**9**	**0-1**	
JMA	X	23 10 55 28.0±.2	43.15N±.01	144.20E±.01	86±3	1.8		**¶97x3975**		
ISC	X	**23 20 08 16**±5.3	**44.2N**±.20	**141.7E**±.21	**264**±50			**18**	**1-6**	
JMA	X	23 20 08 18.1±.3	44.15N±.02	141.75E±.02	251±3			**¶97x4055**		
JMA	X	**23 23 28 17.5**±.2	**43.66N**±.05	**145.14E**±.04	**121**			**¶97x4082**		
ISC	X	**24 07 43 57**±1.7	**42.0N**±.12	**142.5E**±.11	**50**±33			**10**	**0-1**	
JMA	X	24 07 43 57.2±.0	42.02N±.00	142.47E±.01	55±1	3.2		**¶97x4122**		
ISC	X	**24 17 43 38**±2.5	**42.2N**±.15	**144.4E**±.13	**25**±14			**14**	**1-2**	
JMA	X	24 17 43 38.4±.2	42.23N±.02	144.33E±.01	50±4	3.4		**¶97x4205**		
ISC	X	**25 00 03 31**±1.9	**42.4N**±.15	**144.6E**±.17	**53**			**12**	**1-2**	
JMA	X	25 00 03 29.9±.2	42.33N±.02	144.64E±.02	53±4	3.1		**¶97x4240**		
ISC	X	**25 02 55 59.4**±.63	**43.42N**±.047	**142.40E**±.062	**0**			**12**	**0-1**	
JMA	X	25 02 55 59.8±.0	43.41N±.00	142.38E±.00	0	3.5		**¶97x4259**		
JMA	Felt I=II J1									
ISC	X	**25 04 07 38**±2.7	**43.3N**±.11	**140.2E**±.24	**10**±14			**10**	**0-2**	
JMA	X	25 04 07 38.3±.1	43.30N±.00	140.29E±.01	12±1	3.0		**¶97x4268**		
ISC	X	**25 18 28 12**±2.3	**42.99N**±.096	**143.8E**±.11	**124**±26			**17**	**0-2**	
JMA	X	25 18 28 12.6±.2	42.97N±.01	143.74E±.01	116±2			**¶97x4353**		
ISC	X	**25 19 14 55.8**±.60	**42.01N**±.072	**142.78E**±.091	**72**±5.8	**3.6b**		**21**	**0-73**	
JMA	X	25 19 14 56.1±.1	41.94N±.01	142.79E±.01	60±1	3.8		**¶97x4360**		
NEIC	X	25 19 14 58.4	41.99N	142.58E	100					
EIDC	X	25 19 14 58.6	42.0N	142.7E	83	3.4b				
NEIC	Less reliable solution.									
ISC	X	**26 05 21 31.4**±.66	**43.42N**±.049	**142.39E**±.065	**2**			**11**	**0-1**	
JMA	X	26 05 21 32.0±.1	43.42N±.00	142.38E±.00	2±2	3.2		**¶97x4417**		
ISC	X	**26 23 06 27.9**±.54	**43.82N**±.091	**143.7E**±.11	**165**			**17**	**0-2**	
JMA	X	26 23 06 28.0±.2	43.81N±.01	143.73E±.01	165±2			**¶97x4532**		
ISC	X	**27 02 28 44**±2.7	**43.1N**±.28	**145.6E**±.34	**79**			**5**	**0-2**	
JMA	X	27 02 28 44.1±.2	43.14N±.02	145.54E±.02	79±2			**¶97x4557**		
ISC	Poorly determined									
ISC	X	**27 03 47 28.0**±.68	**41.35N**±.048	**140.54E**±.088	**15**			**10**	**0-1**	
JMA	X	27 03 47 28.2±.0	41.34N±.00	140.54E±.00	15±1	3.2		**¶97x4563**		
ISC	X	**27 17 02 45**±1.2	**43.5N**±.16	**145.3E**±.18	**90**			**8**	**0-2**	
JMA	X	27 17 02 45.3±.2	43.45N±.01	145.29E±.01	90±2	2.2		**¶97x4635**		
ISC	X	**27 20 34 35**±2.5	**42.7N**±.11	**143.7E**±.14	**75**±28			**12**	**0-1**	
JMA	X	27 20 34 35.6±.1	42.72N±.01	143.64E±.01	69±2	3.1		**¶97x4657**		
ISC	X	**28 02 00 10**±5.8	**42.5N**±.30	**143.5E**±.39	**58**±50			**6**	**0-1**	
JMA	X	28 02 00 09.9±.4	42.54N±.02	143.52E±.03	60±4	2.4		**¶97x4686**		
ISC	Poorly determined									
ISC	X	**28 07 06 46.7**±.41	**42.51N**±.047	**143.83E**±.065	**95**±3.5	**4.2b**		**64**	**0-151**	
NEIC	X	28 07 06 46.5	42.51N	143.76E	94	4.4b		**¶97x4721**		
JMA	X	28 07 06 47.6±.1	42.53N±.01	143.88E±.01	83±2	4.3				
EIDC	X	28 07 06 48.5	42.6N	143.9E	94	4.1b				
SKHL	X	28 07 06 49.0	42.6N±.07	143.8E±.16	106±4					
SKHL	K10.5									
ISC	X	**28 07 56 11**±3.4	**42.2N**±.20	**143.4E**±.18	**46**±48			**6**	**0-1**	
JMA	X	28 07 56 09.8±.3	42.21N±.02	143.42E±.02	57±3	2.8		**¶97x4729**		
ISC	X	**28 11 06 45.7**±.34	**41.90N**±.042	**141.54E**±.063	**95**±3.6	**4.0b**		**48**	**0-87**	
BJI	X	28 11 06 45.3	41.56N	141.64E	124	4.5b		**¶97x4749**		
NEIC	X	28 11 06 46.0	41.90N	141.53E	100	3.8b				
JMA	X	28 11 06 46.3±.0	41.89N±.00	141.55E±.01	84±1	4.2				
EIDC	X	28 11 06 47.2	41.9N	141.6E	95	3.8b				
ISC	X	**28 18 02 57.5**±.58	**41.62N**±.059	**141.91E**±.080	**70**±5.8	**3.7b**		**27**	**1-70**	
JMA	X	28 18 02 57.4±.1	41.59N±.00	141.92E±.01	65±2	3.7		**¶97x4796**		
EIDC	X	28 18 03 00.4	41.7N	141.8E	77	3.5b				
NEIC	X	28 18 03 00.6	41.57N	141.79E	103					
JMA	Nodal plane solution: N52, Score 92%. NP1:ϕ_S187°,δ17°,λ66°. NP2:ϕ_S32°,δ74°,λ98°. Principle axes: T Plg60°,Azm312°; N Plg7°,Azm210°; P Plg29°,Azm116°.									
NEIC	Less reliable solution.									
ISC	X	**28 19 09 06**±6.4	**43.0N**±.48	**145.3E**±.35	**93**±61			**7**	**0-1**	
JMA	X	28 19 09 07.1±.2	43.05N±.01	145.20E±.01	85±2	1.9		**¶97x4802**		
ISC	Poorly determined									
ISC	X	**28 21 05 41**±3.2	**43.2N**±.14	**141.6E**±.14	**148**±35			**15**	**0-2**	
JMA	X	28 21 05 41.3±.2	43.24N±.01	141.62E±.01	149±2			**¶97x4815**		
ISC	X	**29 06 59 18**±3.1	**42.5N**±.20	**143.6E**±.17	**65**±34			**7**	**0-1**	
JMA	X	29 06 59 17.9±.2	42.55N±.01	143.54E±.01	62±3	2.3		**¶97x4871**		
JMA	X	**29 11 36 56.1**±.3	**44.27N**±.04	**145.68E**±.04	**161**±4			**¶97x4899**		
ISC	X	**29 14 44 56**±1.7	**43.04N**±.077	**143.65E**±.086	**96**±21			**17**	**0-2**	
JMA	X	29 14 44 56.7±.1	43.03N±.01	143.62E±.01	90±2	3.0		**¶97x4924**		
ISC	X	**29 18 21 48**±2.2	**41.49N**±.074	**140.9E**±.15	**106**±25			**13**	**0-2**	
JMA	X	29 18 21 48.2±.1	41.49N±.00	140.91E±.01	106±1			**¶97x4935**		
ISC	X	**29 18 30 55**±2.0	**41.55N**±.072	**141.8E**±.13	**79**±35			**11**	**1-2**	
JMA	X	29 18 30 54.9±.1	41.54N±.00	141.75E±.01	79±2	2.2		**¶97x4937**		
ISC	X	**29 22 17 34**±1.9	**41.10N**±.079	**141.9E**±.29	**48**			**11**	**1-2**	
JMA	X	29 22 17 34.2±.1	41.08N±.01	141.90E±.02	48±3	2.8		**¶97x4957**		
ISC	X	**30 02 33 53**±2.2	**42.4N**±.12	**143.5E**±.13	**62**±26			**11**	**0-2**	
JMA	X	30 02 33 53.0±.2	42.44N±.01	143.50E±.01	59±3	3.3		**¶97x4980**		
ISC	X	**30 06 10 33.6**±.55	**41.38N**±.044	**142.59E**±.084	**57**±5.7	**4.0b**		**37**	**1-87**	
NEIC	X	30 06 10 31.5	41.51N	142.55E	33			**¶97x5002**		
JMA	X	30 06 10 33.0±.1	41.33N±.00	142.63E±.01	41±4	3.8				
EIDC	X	30 06 10 36.2	41.4N	142.5E	61	3.8b,4.1L				
NEIC	Less reliable solution.									
ISC	X	**30 07 02 47**±6.1	**42.9N**±.19	**139.2E**±.63	**34**			**7**	**1-2**	
JMA	X	30 07 02 47.7±.2	42.87N±.01	139.24E±.02	34±3	3.0		**¶97x5010**		
ISC	X	**31 11 00 22**±4.8	**42.6N**±.12	**141.6E**±.21	**155**±50			**13**	**0-2**	
JMA	X	31 11 00 24.0±.2	42.62N±.01	141.60E±.01	137±2			**¶97x5167**		
ISC	X	**31 19 47 09**±1.0	**43.6N**±.21	**145.1E**±.23	**140**			**8**	**0-2**	
JMA	X	31 19 47 09.0±.2	43.57N±.01	145.05E±.01	140±2			**¶97x5220**		
ISC	X	**31 20 13 54**±1.3	**41.98N**±.084	**142.28E**±.090	**46**±36			**13**	**0-2**	
JMA	X	31 20 13 53.6±.0	41.97N±.00	142.28E±.01	55±2	2.9		**¶97x5225**		
ISC	X	**31 22 37 34**±2.4	**42.3N**±.15	**143.7E**±.13	**92**±25			**13**	**0-2**	
JMA	X	31 22 37 34.9±.2	42.38N±.01	143.68E±.01	85±2	3.3		**¶97x5234**		
JMA	XI	**01 01 46 45.5**±.2	**41.51N**±.01	**141.71E**±.02	**75**±2	**2.5**		**¶97xi0009**		
ISC	XI	**01 02 34 03**±1.9	**41.9N**±.14	**142.7E**±.14	**49**±29			**10**	**0-1**	
JMA	XI	01 02 34 02.8±.1	41.89N±.01	142.74E±.01	55±1	3.7		**¶97xi0014**		
ISC	XI	**01 04 39 07**±3.3	**42.8N**±.15	**144.0E**±.14	**108**±34			**10**	**0-1**	
JMA	XI	01 04 39 07.6±.2	42.82N±.01	143.99E±.01	100±2			**¶97xi0030**		
ISC	XI	**01 10 29 17**±1.5	**41.56N**±.081	**141.8E**±.10	**66**±28			**14**	**1-2**	
JMA	XI	01 10 29 16.6±.1	41.54N±.01	141.79E±.01	67±3	2.5		**¶97xi0067**		
ISC	XI	**01 16 09 13**±4.6	**42.9N**±.66	**143.6E**±.35	**106**			**7**	**0-1**	
JMA	XI	01 16 09 12.7±.3	42.80N±.02	143.65E±.02	106±2			**¶97xi0102**		
ISC	Poorly determined									
ISC	XI	**01 23 39 18**±2.0	**42.8N**±.18	**145.0E**±.17	**52**			**8**	**0-1**	
JMA	XI	01 23 39 18.7±.2	42.86N±.01	144.95E±.01	52±2	3.7		**¶97xi0163**		
ISC	XI	**02 06 01 13**±1.2	**41.89N**±.064	**141.5E**±.10	**76**±21			**15**	**0-2**	
JMA	XI	02 06 01 12.8±.1	41.89N±.00	141.48E±.01	81±2	2.6		**¶97xi0205**		
ISC	XI	**02 07 21 10**±5.2	**43.6N**±.28	**140.6E**±.36	**215**±40			**15**	**0-3**	
JMA	XI	02 07 21 09.9±.3	43.59N±.02	140.58E±.02	218±3			**¶97xi0215**		
ISC	XI	**02 11 38 28**±3.4	**43.1N**±.12	**144.0E**±.15	**132**±34			**11**	**0-1**	
JMA	XI	02 11 38 29.3±.2	43.08N±.01	143.97E±.01	123±2			**¶97xi0253**		
ISC	XI	**02 13 37 39**±2.4	**41.58N**±.076	**140.8E**±.15	**145**±27			**16**	**0-2**	
JMA	XI	02 13 37 38.9±.1	41.59N±.01	140.82E±.01	143±2			**¶97xi0269**		
ISC	XI	**02 18 19 18.5**±.48	**41.49N**±.045	**141.81E**±.076	**77**±4.1	**4.0b**		**50**	**1-87**	
JMA	XI	02 18 19 18.8±.1	41.48N±.00	141.80E±.01	69±2	4.0		**¶97xi0312**		
NEIC	XI	02 18 19 20.0	41.45N	141.75E	93	4.3b				
EIDC	XI	02 18 19 20.9	41.5N	141.8E	86	3.7b,3.1s				
JMA	Nodal plane solution: N81, Score 91%. NP1:ϕ_S170°,δ16°,λ50°. NP2:ϕ_S31°,δ78°,λ101°. Principle axes:T Plg56°,Azm314°; NPlg10°,Azm208°; P Plg32°,Azm112°									
NEIC	Felt I=III MM.									
NEIC	Felt I=II J1 in eastern Aomori Prefecture, Honshu.									
ISC	XI	**02 21 40 22**±1.2	**42.9N**±.11	**145.4E**±.15	**53**±9.0	**3.6b**		**15**	**0-71**	
NEIC	XI	02 21 40 20.1	43.04N	145.31E	33			**¶97xi0342**		
JMA	XI	02 21 40 22.2±.2	42.95N±.01	145.42E±.02	50±2	4.0				
EIDC	XI	02 21 40 24.9	43.0N	145.3E	61	3.4b,3.6L				
NEIC	Single network solution.									
ISC	XI	**03 00 15 11**±2.2	**42.5N**±.12	**143.6E**±.11	**105**±24			**17**	**0-2**	
JMA	XI	03 00 15 12.1±.2	42.53N±.01	143.53E±.01	98±2			**¶97xi0359**		
ISC	XI	**03 13 06 27**±5.9	**43.2N**±.16	**145.1E**±.26	**110**±55			**9**	**0-2**	
JMA	XI	03 13 06 27.9±.2	43.20N±.01	145.08E±.01	103±2			**¶97xi0466**		
ISC	XI	**03 17 35 19**±1.0	**42.8N**±.14	**142.8E**±.22	**105**			**7**	**0-1**	
JMA	XI	03 17 35 19.1±.5	42.82N±.02	142.76E±.02	105±4			**¶97xi0499**		
ISC	XI	**03 19 13 25**±1.1	**43.4N**±.19	**145.3E**±.20	**120**			**8**	**0-2**	
JMA	XI	03 19 13 25.5±.2	43.43N±.01	145.24E±.01	120±2			**¶97xi0504**		
ISC	XI	**03 21 22 11**±7.1	**44.7N**±.40	**141.5E**±.34	**289**±61			**18**	**1-6**	
JMA	XI	03 21 22 13.8±.3	44.58N±.04	141.61E±.08	267			**¶97xi0522**		
ISC	XI	**04 14 45 29**±3.4	**42.1N**±.21	**145.2E**±.25	**25**			**12**	**1-2**	
JMA	XI	04 14 45 28.4±.3	42.10N±.02	145.14E±.03	25	2.8		**¶97xi0656**		
ISC	XI	**05 04 04 41**±5.0	**42.5N**±.18	**141.0E**±.30	**146**±44			**11**	**0-4**	
JMA	XI	05 04 04 42.7±.3	42.46N±.01	141.09E±.01	128±3			**¶97xi0730**		
ISC	XI	**05 06 45 34.4**±.90	**42.7N**±.13	**141.9E**±.14	**139**			**12**	**0-2**	
JMA	XI	05 06 45 34.6±.2	42.73N±.01	141.90E±.01	139±3			**¶97xi0747**		
ISC	XI	**05 12 18 33**±3.5	**43.0N**±.37	**144.1E**±.32	**104**±38			**7**	**0-1**	
JMA	XI	05 12 18 33.2±.2	42.97N±.01	144.08E±.01	96±2			**¶97xi0796**		
ISC	XI	**05 13 57 00**±1.9	**41.6N**±.13	**142.7E**±.14	**22**±18			**11**	**1-2**	
JMA	XI	05 13 57 00.1±.1	41.54N±.01	142.71E±.01	31±3	2.8		**¶97xi0812**		
ISC	XI	**05 14 18 06**±2.2	**42.4N**±.16	**144.2E**±.15	**75**±26			**13**	**1-2**	
JMA	XI	05 14 18 06.8±.2	42.40N±.01	144.21E±.01	73±3	2.4		**¶97xi0816**		
ISC	XI	**05 14 33 01**±1.6	**41.55N**±.082	**142.7E**±.12	**19**±19			**12**	**1-2**	
JMA	XI	05 14 33 01.3±.1	41.53N±.01	142.72E±.01	32±3	3.4		**¶97xi0821**		

Agency		Origin Time			ϕ	λ	h	Mag	n	Δ-Rng
	mo	d	h	m s	°	°	km			°
ISC	**XI**	**05**	**20**	**04 37.1**±.30	**43.13N**±.034	**144.36E**±.043	**126**±2.4	**4.9b**	**224**	**0-151**
MOS	XI	05	20	04 34.7	43.1N	144.5E	108	5.4b		**¶97xi0855**
SKHL	XI	05	20	04 36.0	43.1N	144.3E	125±10			
BJI	XI	05	20	04 36.2	43.37N	144.37E	122	5.2b		
NEIC	XI	05	20	04 36.2	43.14N	144.34E	119	5.0b		
EIDC	XI	05	20	04 38.0	43.2N	144.3E	122	4.5b,3.6s		
JMA	XI	05	20	04 38.1±.2	43.02N±.01	144.43E±.01	113±2	4.9		
SKHL	K11									
NEIC	Felt I=V MM.									
NEIC	Felt I=III J1 in southeastern Hokkaido. Also felt I J1 in eastern Aomori and northern Iwate Prefectures, Honshu.									
JMA	Nodal plane solution: N104, Score 91%. NP1:ϕ_S149°,δ9°,λ−8°. NP2:ϕ_S24831,δ89°,λ−99°. Principle axes: T Plg43°,Azm346°; N Plg9°,Azm248°; P Plg46°,Azm149°.									
ISC	**XI**	**05**	**21**	**16 41**±1.8	**41.9N**±.13	**145.2E**±.18	**69**±47		**18**	**1-8**
JMA	XI	05	21	16 41.4±.3	41.92N±.02	145.05E±.03	42	3.9		**¶97xi0866**
ISC	**XI**	**06**	**06**	**07 55**±2.7	**43.4N**±.29	**146.0E**±.37	**94**		**6**	**0-2**
JMA	XI	06	06	07 55.1±.4	43.39N±.02	145.95E±.03	94±3			**¶97xi0930**
ISC	**XI**	**06**	**06**	**15 38**±2.6	**42.9N**±.13	**145.0E**±.19	**75**±28		**10**	**0-2**
JMA	XI	06	06	15 38.6±.2	42.93N±.01	144.99E±.01	75±2	3.7		**¶97xi0934**
ISC	**XI**	**06**	**13**	**56 41**±3.6	**43.2N**±.12	**144.2E**±.15	**134**±37		**12**	**0-1**
JMA	XI	06	13	56 40.8±.2	43.20N±.01	144.23E±.02	130±3			**¶97xi0986**
ISC	**XI**	**06**	**17**	**37 20**±2.6	**42.9N**±.11	**143.15E**±.091	**141**±29		**18**	**0-2**
JMA	XI	06	17	37 21.9±.2	42.89N±.01	143.13E±.01	128±3			**¶97xi1007**
JMA	**XI**	**06**	**21**	**31 45.6**±.2	**42.88N**±.01	**143.78E**±.02	**76**±3	**2.0**		**¶97xi1035**
JMA	**XI**	**07**	**00**	**18 30.9**±.2	**41.41N**±.01	**141.42E**±.02	**84**±3	**2.3**		**¶97xi1054**
ISC	**XI**	**07**	**03**	**04 28**±3.2	**42.2N**±.24	**143.4E**±.17	**34**±53		**7**	**0-1**
JMA	XI	07	03	04 27.2±.3	42.15N±.02	143.39E±.02	51±3	2.8		**¶97xi1065**
JMA	**XI**	**07**	**04**	**56 41.9**±.2	**41.38N**±.01	**141.71E**±.03	**104**±2			**¶97xi1074**
ISC	**XI**	**07**	**09**	**37 24**±2.3	**42.81N**±.098	**143.12E**±.096	**136**±27		**17**	**0-2**
JMA	XI	07	09	37 25.5±.2	42.82N±.01	143.10E±.01	125±3	2.8		**¶97xi1110**
ISC	**XI**	**07**	**13**	**09 02**±4.4	**43.5N**±.19	**142.2E**±.13	**171**±44		**15**	**0-2**
JMA	XI	07	13	09 01.2±.3	43.46N±.02	142.20E±.02	177±3			**¶97xi1127**
ISC	**XI**	**07**	**13**	**42 13**±2.0	**43.6N**±.19	**145.9E**±.28	**119**		**9**	**0-2**
JMA	XI	07	13	42 12.9±.2	43.61N±.01	145.88E±.02	119±2			**¶97xi1130**
ISC	**XI**	**07**	**15**	**19 58**±1.6	**42.21N**±.098	**142.43E**±.099	**62**±26		**12**	**0-1**
JMA	XI	07	15	19 57.8±.1	42.21N±.01	142.42E±.01	63±2	2.5		**¶97xi1140**
ISC	**XI**	**07**	**17**	**43 09**±4.5	**43.5N**±.13	**144.7E**±.24	**145**±44		**14**	**0-3**
JMA	XI	07	17	43 09.2±.2	43.44N±.01	144.63E±.01	142±2			**¶97xi1152**
ISC	**XI**	**07**	**21**	**34 19**±2.1	**44.1N**±.18	**144.7E**±.29	**140**		**12**	**0-2**
JMA	XI	07	21	34 19.0±.4	44.05N±.02	144.69E±.03	140±4			**¶97xi1173**
ISC	**XI**	**08**	**17**	**12 35**±5.2	**42.2N**±.12	**139.5E**±.35	**190**±43		**15**	**0-2**
JMA	XI	08	17	12 34.9±.2	42.19N±.01	139.49E±.02	189±2			**¶97xi1324**
ISC	**XI**	**08**	**17**	**17 56**±2.2	**42.69N**±.079	**141.3E**±.11	**123**±28		**17**	**0-2**
JMA	XI	08	17	17 56.4±.1	42.68N±.01	141.32E±.01	122±2			**¶97xi1325**
ISC	**XI**	**08**	**23**	**09 20**±5.1	**43.1N**±.19	**145.2E**±.26	**94**±48		**8**	**0-1**
JMA	XI	08	23	09 20.9±.2	43.11N±.01	145.18E±.01	91±2	2.4		**¶97xi1360**
ISC	**XI**	**09**	**04**	**25 09**±1.6	**41.11N**±.092	**143.2E**±.28	**38**		**16**	**1-3**
JMA	XI	09	04	25 08.1±.1	41.10N±.01	143.14E±.02	38	3.0		**¶97xi1394**
ISC	**XI**	**09**	**04**	**30 36**±1.4	**41.14N**±.091	**143.1E**±.23	**44**		**9**	**1-3**
JMA	XI	09	04	30 35.7±.1	41.11N±.01	143.14E±.01	44	2.8		**¶97xi1395**
ISC	**XI**	**09**	**06**	**43 59**±1.4	**41.81N**±.080	**142.00E**±.089	**62**±30		**14**	**1-2**
JMA	XI	09	06	43 58.9±.1	41.81N±.01	141.97E±.01	71±2	2.5		**¶97xi1412**
ISC	**XI**	**09**	**13**	**55 29**±4.3	**42.8N**±.27	**145.6E**±.36	**31**±15		**8**	**1-2**
JMA	XI	09	13	55 28.7±.2	42.82N±.01	145.61E±.02	44±2	3.4		**¶97xi1452**
ISC	**XI**	**09**	**14**	**53 41**±2.7	**42.9N**±.15	**144.1E**±.16	**81**±31		**11**	**0-1**
JMA	XI	09	14	53 41.7±.2	42.88N±.01	144.07E±.01	76±2	2.0		**¶97xi1461**
ISC	**XI**	**09**	**16**	**06 07**±2.3	**42.6N**±.11	**142.4E**±.10	**104**±29		**13**	**0-2**
JMA	XI	09	16	06 07.3±.2	42.63N±.01	142.42E±.01	96±2			**¶97xi1469**
ISC	**XI**	**09**	**17**	**51 58**±2.8	**41.55N**±.090	**140.9E**±.20	**143**±31		**15**	**0-2**
JMA	XI	09	17	51 58.6±.2	41.52N±.01	140.90E±.02	142±2			**¶97xi1484**
ISC	**XI**	**09**	**21**	**44 43.1**±.96	**43.99N**±.065	**141.99E**±.099	**8**±22		**7**	**0-1**
JMA	XI	09	21	44 43.7±.1	43.98N±.00	141.99E±.01	2±2	2.8		**¶97xi1516**
ISC	**XI**	**09**	**21**	**59 44**±2.0	**43.5N**±.28	**145.6E**±.28	**109**		**7**	**0-2**
JMA	XI	09	21	59 44.3±.2	43.51N±.02	145.61E±.02	109±2			**¶97xi1517**
ISC	**XI**	**09**	**22**	**57 10.5**±.76	**42.23N**±.052	**140.68E**±.079	**13**±10		**10**	**0-1**
JMA	XI	09	22	57 10.9±.0	42.22N±.00	140.67E±.00	14±1	3.4		**¶97xi1522**
ISC	**XI**	**10**	**01**	**27 48.4**±.63	**41.56N**±.058	**142.07E**±.094	**56**		**14**	**1-2**
JMA	XI	10	01	27 48.1±.1	41.55N±.00	142.07E±.01	56±2	2.9		**¶97xi1538**
ISC	**XI**	**10**	**01**	**30 25**±7.2	**41.3N**±.19	**139.0E**±.65	**18**±24		**6**	**1-2**
JMA	XI	10	01	30 25.1±.2	41.22N±.00	139.04E±.02	25±3	3.1		**¶97xi1539**
ISC	**XI**	**10**	**12**	**32 17**±2.2	**42.99N**±.088	**143.8E**±.12	**99**±25		**13**	**0-1**
JMA	XI	10	12	32 17.4±.2	42.97N±.01	143.82E±.01	97±3			**¶97xi1613**
JMA	**XI**	**10**	**16**	**44 43.0**±.4	**41.06N**±.02	**140.62E**±.04	**144**±4			**¶97xi1642**
ISC	**XI**	**10**	**21**	**14 27**±2.2	**43.0N**±.12	**142.8E**±.10	**124**±25		**14**	**0-2**
JMA	XI	10	21	14 28.0±.2	43.04N±.02	142.82E±.01	117±3			**¶97xi1678**
ISC	**XI**	**11**	**09**	**49 45.7**±.92	**42.8N**±.15	**142.2E**±.18	**104**		**8**	**1-2**
JMA	XI	11	09	49 45.2±.4	42.81N±.02	142.31E±.02	104±4			**¶97xi1767**
ISC	**XI**	**12**	**10**	**13 00**±3.1	**41.8N**±.17	**145.4E**±.28	**44**		**14**	**1-3**
JMA	XI	12	10	13 00.5±.5	41.89N±.02	145.26E±.05	44	3.3		**¶97xi1966**
ISC	**XI**	**12**	**14**	**08 59**±2.0	**42.6N**±.25	**144.3E**±.16	**90**		**9**	**0-1**
JMA	XI	12	14	08 58.9±.3	42.63N±.02	144.19E±.02	90±3	2.7		**¶97xi1992**
ISC	**XI**	**12**	**15**	**24 30.7**±.27	**44.69N**±.043	**141.39E**±.066	**258**±3.8	**3.8b**	**56**	**0-85**
NEIC	XI	12	15	24 29.9	44.70N	141.43E	250	4.3b		**¶97xi2004**
SKHL	XI	12	15	24 30.0	44.6N±.06	141.4E±.14	252±2			
BJI	XI	12	15	24 30.8	44.76N	141.42E	254	4.5b		
EIDC	XI	12	15	24 31.1	44.8N	141.5E	245	3.5b		
JMA	XI	12	15	24 31.4±.2	44.71N±.01	141.41E±.02	252±2			
ISC	**XI**	**12**	**18**	**24 27**±3.2	**42.8N**±.22	**145.1E**±.20	**53**±37		**8**	**0-1**
JMA	XI	12	18	24 27.6±.2	42.81N±.01	145.04E±.01	53±2	2.9		**¶97xi2021**
ISC	**XI**	**12**	**19**	**42 54**±4.1	**42.3N**±.18	**140.9E**±.32	**130**±43		**10**	**1-3**
JMA	XI	12	19	42 54.6±.3	42.30N±.01	140.91E±.03	123±4			**¶97xi2027**
ISC	**XI**	**13**	**15**	**28 13**±2.3	**42.3N**±.16	**145.0E**±.18	**58**		**13**	**1-2**
JMA	XI	13	15	28 12.7±.2	42.27N±.02	145.01E±.02	58±4	3.2		**¶97xi2159**
ISC	**XI**	**13**	**17**	**40 43**±4.1	**43.0N**±.18	**145.2E**±.25	**69**±44		**8**	**0-1**
JMA	XI	13	17	40 43.7±.2	43.03N±.01	145.19E±.02	65±2	3.0		**¶97xi2173**
ISC	**XI**	**13**	**19**	**20 15**±1.3	**41.50N**±.060	**142.0E**±.10	**59**±40		**14**	**1-2**
JMA	XI	13	19	20 14.6±.1	41.48N±.00	141.99E±.01	62±2	3.0		**¶97xi2182**
ISC	**XI**	**13**	**20**	**00 59**±1.5	**43.6N**±.19	**145.6E**±.25	**119**		**8**	**0-2**
JMA	XI	13	20	00 58.7±.2	43.56N±.01	145.54E±.02	119±2			**¶97xi2185**
ISC	**XI**	**14**	**03**	**11 20.1**±.66	**41.19N**±.073	**141.6E**±.17	**106**		**12**	**0-2**
JMA	XI	14	03	11 20.1±.1	41.19N±.01	141.60E±.01	106±2			**¶97xi2230**
ISC	**XI**	**14**	**08**	**32 34**±2.9	**42.8N**±.21	**145.3E**±.21	**38**±62		**9**	**0-2**
JMA	XI	14	08	32 34.8±.2	42.83N±.01	145.19E±.02	45±2	3.0		**¶97xi2261**
ISC	**XI**	**14**	**13**	**08 45**±5.0	**43.0N**±.21	**145.2E**±.28	**94**±44		**9**	**0-2**
JMA	XI	14	13	08 45.0±.2	42.98N±.01	145.18E±.02	90±2	2.9		**¶97xi2292**
ISC	**XI**	**14**	**19**	**55 22**±6.9	**42.6N**±.55	**144.3E**±.62	**60**		**6**	**0-1**
JMA	XI	14	19	55 22.8±.2	42.65N±.01	144.32E±.02	60±3			**¶97xi2344**
ISC	Poorly determined									
ISC	**XI**	**14**	**22**	**51 37.6**±.27	**42.62N**±.035	**141.85E**±.047	**134**±2.7	**4.5b**	**108**	**0-152**
BJI	XI	14	22	51 37.0	42.37N	141.87E	146	4.7b		**¶97xi2370**
SKHL	XI	14	22	51 37.0	42.5N±.10	141.9E±.20	131±6			
NEIC	XI	14	22	51 37.2	42.66N	141.79E	130	4.6b		
JMA	XI	14	22	51 38.5±.1	42.59N±.01	141.92E±.01	126±2	4.3		
EIDC	XI	14	22	51 38.9	42.7N	141.8E	131	4.2b		
SKHL	K10									
JMA	Felt I=II J1									
JMA	Nodal plane solution: N130, Score 99%. NP1:ϕ_S90°,δ21°,λ−76°. NP2:ϕ_S256°,δ69°,λ−95°. Principle axes: T Plg24°,Azm350°; N Plg5°,Azm258°; P Plg66°,Azm158°.									
ISC	**XI**	**15**	**07**	**05 16.3**±.25	**43.79N**±.023	**145.03E**±.028	**158**±2.3	**5.8b**	**687**	**0-157**
SKHL	XI	15	07	05 16.0	43.8N±.12	145.1E±.20	158±5			**¶97xi2436**
BJI	XI	15	07	05 16.3	44.06N	144.94E	160	5.8b		
MOS	XI	15	07	05 16.4	44.1N	145.0E	148	6.3b		
NEIC	XI	15	07	05 16.6	43.81N	145.02E	161	5.8b		
EIDC	XI	15	07	05 17.1	43.8N	145.0E	156	5.7b		
JMA	XI	15	07	05 17.4±.2	43.65N±.01	145.09E±.01	153±2	6.1		
HRVD	XI	15	07	05 18.8±.1	43.82N±.01	145.07E±.02	157±.5			
SKHL	Felt I=IV MSK at Malokurilsk; I=II−III at Juzhno−Kurilsk									
NEIC	Mw6.1(GS), Me6.0(GS). Felt I=VI MM.									
NEIC	Radiated energy from the P−wave first−motion solution: 2.1±0.5×10^{13}Nm/12									
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S80°,δ80°,λ80°. NP2:ϕ_S305°,δ14°,λ135°. Principal axes: T Plg54°,Azm338°; P Plg34°,Azm179°. Depth from broadband displacement seismograms.									
NEIC	Mw 6.1 (HRV). Felt I=IV J in the Kushiro area. Felt II J in much of southeastern Hokkaido and in parts of Aomori, Iwate and Miyagi Prefectures, Honshu. Also felt II MM at Yuzhno-Kurilsk, Kunashir.									
NEIC	Moment tensor solution: s37, scale 10^{18}Nm; M_{rr}0.27; $M_{\theta\theta}$−0.07; $M_{\phi\phi}$−0.20; $M_{r\theta}$1.30; $M_{r\phi}$0.52; $M_{\theta\phi}$0.30. Depth 150km; Principal axes: T 1.60,Plg46°,Azm333°; N −0.38,Plg8°, Azm72°; P −1.22,Plg43°,Azm170°. Best double couple: M0 1.4×10^{18}Nm; NP1:ϕ_S329°,δ9°, λ167°. NP2:ϕ_S72°,δ88°,λ81°.									
JMA	Nodal plane solution: N171, Score 94%. NP1:ϕ_S183°,δ21°,λ20°. NP2:ϕ_S74°,δ83°,λ111°. Principle axes: T Plg48°,Azm5°; N Plg19°,Azm251°; P Plg35°,Azm147°.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c83; Mantle waves: s31,c55; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}0.11±.01; $M_{\theta\theta}$0.08±.02; $M_{\phi\phi}$−0.19±.02; $M_{r\theta}$1.36±.01; $M_{r\phi}$0.46±.01; $M_{\theta\phi}$−0.10±.02. Principal Axes: T 1.50,Plg46°,Azm347°; N −0.10,Plg7°,Azm250°; P −1.40,Plg43°,Azm154°. Best double couple: M0 1.5×10^{18}Nm, NP1:ϕ_S171°,δ7°,λ11°. NP2:ϕ_S70°,δ89°,λ97°.									
ISC	**XI**	**15**	**09**	**41 42**±2.2	**41.60N**±.067	**140.7E**±.14	**140**±25		**17**	**0-2**
JMA	XI	15	09	41 42.6±.1	41.59N±.00	140.74E±.01	140±1			**¶97xi2454**
ISC	**XI**	**15**	**12**	**16 16**±2.2	**43.0N**±.10	**144.4E**±.12	**99**±24		**14**	**0-2**
JMA	XI	15	12	16 16.3±.2	42.94N±.01	144.30E±.01	94±2			**¶97xi2471**
ISC	**XI**	**15**	**16**	**26 17**±1.3	**41.96N**±.083	**142.25E**±.089	**48**±37		**14**	**0-2**
JMA	XI	15	16	26 16.7±.0	41.96N±.00	142.26E±.00	57±1	3.0		**¶97xi2506**
ISC	**XI**	**16**	**00**	**13 12**±1.7	**42.3N**±.21	**139.6E**±.33	**190**		**8**	**0-3**
JMA	XI	16	00	13 11.8±.2	42.32N±.01	139.52E±.02	190±2			**¶97xi2574**
ISC	**XI**	**16**	**06**	**17 49.4**±.77	**42.5N**±.16	**141.9E**±.14	**131**		**11**	**0-2**
JMA	XI	16	06	17 49.4±.3	42.53N±.02	141.87E±.01	131±3			**¶97xi2604**
JMA	**XI**	**16**	**06**	**30 19.0**±.1	**43.67N**±.03	**145.04E**±.03	**141**			**¶97xi2605**
ISC	**XI**	**16**	**10**	**55 17**±1.0	**43.2N**±.23	**143.9E**±.39	**131**		**7**	**0-1**
JMA	XI	16	10	55 16.4±.4	43.11N±.03	143.91E±.03	131±3			**¶97xi2636**
ISC	**XI**	**17**	**12**	**45 58.4**±.34	**42.59N**±.056	**139.27E**±.072	**213**±4.3	**3.8b**	**43**	**1-152**
BJI	XI	17	12	45 57.7	42.59N	139.32E	220	4.1b		**¶97xi2798**
NEIC	XI	17	12	45 58.7	42.60N	139.21E	218	4.2b		
SKHL	XI	17	12	45 59.0	42.6N±.11	139.5E±.13	217±8			
EIDC	XI	17	12	45 59.4	42.6N	139.3E	212	3.6b		
JMA	XI	17	12	45 59.7±.1	42.56N±.01	139.38E±.02	205±1			
ISC	**XI**	**17**	**13**	**21 17**±1.9	**41.32N**±.061	**139.2E**±.22	**22**		**11**	**1-2**
JMA	XI	17	13	21 17.0±.1	41.31N±.00	139.20E±.01	22±3	3.7		**¶97xi2803**
ISC	**XI**	**17**	**13**	**36 22**±2.3	**42.7N**±.14	**144.1E**±.12	**81**±25		**13**	**0-2**
JMA	XI	17	13	36 22.6±.2	42.74N±.01	144.07E±.01	75±2	2.7		**¶97xi2807**
ISC	**XI**	**17**	**19**	**21 10**±2.2	**41.9N**±.15	**142.5E**±.14	**49**±43		**8**	**0-2**
JMA	XI	17	19	21 09.3±.1	41.93N±.01	142.48E±.01	60±1	2.8		**¶97xi2851**
JMA	**XI**	**18**	**06**	**55 50.0**±.2	**42.76N**±.01	**144.04E**±.01	**75**±2	**2.1**		**¶97xi2924**
ISC	**XI**	**18**	**09**	**29 32**±3.5	**42.1N**±.22	**143.8E**±.20	**68**±31		**10**	**0-2**
JMA	XI	18	09	29 31.7±.1	42.12N±.01	143.76E±.01	68±2	2.5		**¶97xi2936**
ISC	**XI**	**18**	**10**	**45 57.7**±.97	**42.9N**±.17	**143.4E**±.28	**109**		**7**	**0-2**
JMA	XI	18	10	45 57.7±.3	42.89N±.01	143.36E±.02	109±3			**¶97xi2946**
JMA	**XI**	**18**	**21**	**10 39.3**±.3	**41.89N**±.02	**141.94E**±.04	**100**			**¶97xi3064**
ISC	**XI**	**19**	**03**	**00 32**±1.9	**41.91N**±.092	**142.27E**±.095	**92**±25		**15**	**0-2**
JMA	XI	19	03	00 32.4±.1	41.92N±.01	142.25E±.01	87±2	2.7		**¶97xi3120**
ISC	**XI**	**19**	**06**	**20 53**±2.1	**42.57N**±.090	**139.7E**±.16	**13**±15		**8**	**0-1**
JMA	XI	19	06	20 53.1±.1	42.55N±.00	139.73E±.01	16±2	3.2		**¶97xi3151**
ISC	**XI**	**19**	**08**	**07 27**±1.6	**43.5N**±.11	**140.6E**±.20	**14**±17		**8**	**0-1**
JMA	XI	19	08	07 27.0±.1	43.54N±.00	140.66E±.01	12±2	3.0		**¶97xi3167**
JMA	**XI**	**19**	**09**	**03 30.4**±.2	**43.65N**±.03	**145.56E**±.02	**103**±2			**¶97xi3180**
ISC	**XI**	**19**	**12**	**48 28**±4.9	**42.7N**±.29	**141.6E**±.23	**143**±54		**9**	**0-2**
JMA	XI	19	12	48 29.3±.3	42.61N±.02	141.68E±.02	136±3			**¶97xi3220**
ISC	**XI**	**19**	**16**	**19 00**±3.0	**42.9N**±.21	**145.5E**±.25	**37**		**8**	**1-2**
JMA	XI	19	16	18 59.7±.2	42.90N±.01	145.44E±.02	46±2	2.8		**¶97xi3254**
ISC	**XI**	**19**	**18**	**27 36.7**±.81	**41.49N**±.068	**142.6E**±.11	**37**		**13**	**1-2**
JMA	XI	19	18	27 36.0±.1	41.47N±.01	142.63E±.01	37±4	3.4		**¶97xi3287**
ISC	**XI**	**19**	**19**	**50 50**±4.9	**43.0N**±.17	**144.9E**±.20	**96**±49		**8**	**0-1**
JMA	XI	19	19	50 50.5±.2	43.02N±.01	144.89E±.01	91±2	2.1		**¶97xi3301**
ISC	**XI**	**20**	**00**	**38 18**±3.5	**42.6N**±.14	**141.2E**±.23	**130**±37		**8**	**0-2**
JMA	XI	20	00	38 18.2±.3	42.60N±.02	141.29E±.02	128±3			**¶97xi3352**
ISC	**XI**	**20**	**01**	**47 35**±2.2	**44.0N**±.20	**145.7E**±.26	**124**		**10**	**0-2**
JMA	XI	20	01	47 34.9±.2	43.96N±.01	145.68E±.02	124±2			**¶97xi3363**
ISC	**XI**	**20**	**02**	**23 01**±7.0	**44.5N**±.21	**141.4E**±.22	**247**±63		**16**	**0-2**
JMA	XI	20	02	23 02.3±.3	44.49N±.01	141.45E±.02	236±3			**¶97xi3374**
ISC	**XI**	**20**	**06**	**39 43**±1.3	**43.6N**±.18	**145.4E**±.24	**122**		**8**	**0-2**
JMA	XI	20	06	39 43.3±.2	43.55N±.01	145.43E±.02	122±2			**¶97xi3411**
ISC	**XI**	**20**	**08**	**00 23.9**±.68	**44.81N**±.088	**141.8E**±.23	**261**±5.6	**3.2b**	**24**	**0-76**
JMA	XI	20	08	00 24.4±.4	44.80N±.02	141.80E±.04	258±4			**¶97xi3418**
EIDC	XI	20	08	00 24.7	44.8N	141.8E	252	3.0b		
ISC	**XI**	**20**	**08**	**23 53**±6.6	**43.6N**±.22	**145.1E**±.33	**147**±58		**12**	**0-2**
JMA	XI	20	08	23 55.2±.3	43.49N±.02	144.97E±.02	134±2			**¶97xi3421**
ISC	**XI**	**20**	**09**	**46 58**±2.3	**41.54N**±.075	**141.0E**±.16	**138**±27		**16**	**0-2**
JMA	XI	20	09	46 57.5±.2	41.53N±.01	140.95E±.01	140±2			**¶97xi3437**
ISC	**XI**	**20**	**10**	**38 45.4**±.80	**43.0N**±.26	**144.0E**±.24	**128**		**7**	**0-1**
JMA	XI	20	10	38 45.3±.3	43.01N±.03	143.90E±.03	128±3			**¶97xi3447**
ISC	**XI**	**20**	**17**	**13 27.5**±.86	**43.4N**±.16	**142.9E**±.26	**133**		**8**	**0-1**
JMA	XI	20	17	13 27.3±.4	43.31N±.02	142.88E±.02	133±4			**¶97xi3502**
ISC	**XI**	**21**	**00**	**36 08**±2.6	**42.3N**±.16	**143.1E**±.12	**50**±34		**9**	**0-1**
JMA	XI	21	00	36 07.4±.2	42.23N±.02	143.06E±.01	55±2	3.2		**¶97xi3558**
ISC	**XI**	**21**	**06**	**33 41**±5.0	**42.6N**±.43	**144.3E**±.52	**62**		**4**	**0-1**
JMA	XI	21	06	33 40.6±.2	42.63N±.01	144.25E±.02	62±3	2.0		**¶97xi3604**
ISC	Poorly determined									
ISC	**XI**	**21**	**14**	**20 45**±2.3	**42.9N**±.11	**144.0E**±.13	**93**±27		**12**	**0-1**
JMA	XI	21	14	20 44.7±.2	42.89N±.01	143.96E±.01	91±2	2.3		**¶97xi3668**

ISC	**XI**	**21 17 47 46**±2.2	**45.5N**±.27	**143.3E**±.39	**320**			**10**	**1-4**	
JMA	XI	21 17 47 46.4±.3	45.47N±.04	143.33E±.06	320					**¶97xi3699**
ISC	**XI**	**21 18 38 40**±1.5	**41.8N**±.33	**140.0E**±.42	**152**			**5**	**0-1**	
JMA	XI	21 18 38 39.9±.5	41.77N±.03	140.07E±.03	152±4					**¶97xi3712**
ISC	**XI**	**21 18 55 14**±5.4	**43.2N**±.15	**144.8E**±.17	**86**±59			**8**	**0-1**	
JMA	XI	21 18 55 14.1±.1	43.22N±.01	144.77E±.01	81±2	1.8				**¶97xi3717**
ISC	**XI**	**22 03 45 13**±1.1	**44.6N**±.16	**141.5E**±.27	**269**			**14**	**1-3**	
JMA	XI	22 03 45 13.4±.1	44.58N±.03	141.54E±.04	269					**¶97xi3797**
ISC	**XI**	**22 04 07 03**±1.6	**42.7N**±.44	**143.5E**±.61	**62**			**4**	**0-1**	
JMA	XI	22 04 07 02.8±.2	42.75N±.01	143.33E±.02	62±3	1.5				**¶97xi3801**
ISC	Poorly determined									
ISC	**XI**	**22 13 03 08.2**±.69	**41.15N**±.045	**142.1E**±.11	**55**			**17**	**1-2**	
JMA	XI	22 13 03 08.1±.1	41.14N±.00	142.07E±.01	55±3	2.8				**¶97xi3882**
ISC	**XI**	**22 21 37 16**±3.2	**42.53N**±.085	**141.1E**±.17	**138**±35			**16**	**0-2**	
JMA	XI	22 21 37 16.6±.1	42.53N±.01	141.14E±.01	136±1					**¶97xi3965**
ISC	**XI**	**23 01 41 16.1**±.60	**42.85N**±.096	**143.2E**±.11	**125**			**15**	**0-2**	
JMA	XI	23 01 41 15.9±.3	42.81N±.01	143.16E±.02	125±3					**¶97xi3998**
ISC	**XI**	**23 03 28 00**±5.2	**43.4N**±.14	**143.9E**±.15	**139**±56			**12**	**0-1**	
JMA	XI	23 03 28 00.0±.2	43.31N±.01	143.85E±.02	140±3					**¶97xi4014**
ISC	**XI**	**23 09 28 06.6**±.89	**42.8N**±.18	**141.9E**±.19	**133**			**8**	**0-1**	
JMA	XI	23 09 28 06.4±.3	42.81N±.02	141.92E±.02	133±3					**¶97xi4085**
ISC	**XI**	**23 15 47 56**±8.0	**41.7N**±.36	**139.3E**±.62	**17**			**6**	**0-1**	
JMA	XI	23 15 47 57.4±.1	41.77N±.00	139.44E±.01	17±1	3.1				**¶97xi4146**
ISC	**XI**	**23 18 28 13**±1.6	**42.28N**±.096	**142.5E**±.11	**71**±25			**12**	**0-1**	
JMA	XI	23 18 28 13.2±.1	42.28N±.00	142.50E±.01	68±1	3.5				**¶97xi4170**
ISC	**XI**	**23 23 31 02**±1.7	**41.88N**±.087	**142.6E**±.14	**18**±28			**11**	**0-2**	
JMA	XI	23 23 31 02.5±.1	41.85N±.01	142.66E±.01	28±2	3.5				**¶97xi4225**
JMA	Nodal plane solution: N23, Score 96%. NP1:ϕ_S146°,δ24°,λ47°. NP2:ϕ_S12°,δ73°,λ108°. Principle axes: T Plg59°,Azm306°; N Plg16°,Azm187°; P Plg26°,Azm89°.									
ISC	**XI**	**24 07 48 45**±1.6	**41.36N**±.058	**141.3E**±.14	**87**±22			**14**	**0-2**	
JMA	XI	24 07 48 45.3±.1	41.35N±.00	141.33E±.01	84±2	2.4				**¶97xi4280**
JMA	**XI**	**24 15 00 30.2**±.2	**42.89N**±.01	**143.33E**±.03	**112**±2					**¶97xi4331**
ISC	**XI**	**24 15 09 16**±1.5	**41.47N**±.064	**141.3E**±.13	**89**±21			**14**	**0-2**	
JMA	XI	24 15 09 16.4±.1	41.46N±.00	141.30E±.01	87±1	2.4				**¶97xi4335**
JMA	**XI**	**24 21 39 39.8**±.3	**43.94N**±.04	**142.82E**±.04	**229**					**¶97xi4392**
ISC	**XI**	**25 01 12 51**±1.9	**42.3N**±.13	**142.5E**±.11	**69**±27			**9**	**0-1**	
JMA	XI	25 01 12 51.5±.1	42.31N±.01	142.49E±.01	67±1	2.0				**¶97xi4420**
ISC	**XI**	**25 03 16 19**±1.6	**44.1N**±.22	**144.8E**±.22	**158**			**8**	**0-2**	
JMA	XI	25 03 16 19.2±.4	44.01N±.02	144.76E±.03	158±4					**¶97xi4437**
JMA	**XI**	**25 05 39 16.6**±.5	**42.99N**±.02	**139.31E**±.05	**36**	**2.8**				**¶97xi4453**
ISC	**XI**	**25 11 47 10**±1.5	**41.7N**±.10	**144.5E**±.15	**58**±56			**18**	**1-3**	
JMA	XI	25 11 47 09.5±.2	41.73N±.01	144.41E±.02	48	3.1				**¶97xi4500**
ISC	**XI**	**26 07 42 03**±2.9	**41.5N**±.12	**142.0E**±.20	**75**±55			**6**	**1-2**	
JMA	XI	26 07 42 03.2±.1	41.49N±.01	142.00E±.01	63±3	2.5				**¶97xi4650**
JMA	**XI**	**26 12 34 46.8**±.2	**41.51N**±.01	**141.38E**±.01	**91**±2	**2.3**				**¶97xi4684**
ISC	**XI**	**26 14 05 12**±10	**42.9N**±.58	**146.0E**±.85	**44**			**7**	**0-2**	
JMA	XI	26 14 05 13.8±.2	43.01N±.01	145.85E±.02	44±2	2.8				**¶97xi4697**
ISC	**XI**	**26 14 34 42**±5.7	**43.3N**±.18	**145.3E**±.29	**62**±60			**7**	**0-2**	
JMA	XI	26 14 34 41.4±.1	43.30N±.01	145.32E±.01	71±2	2.6				**¶97xi4701**
ISC	**XI**	**27 02 22 50**±1.3	**43.7N**±.22	**144.9E**±.20	**150**			**9**	**0-2**	
JMA	XI	27 02 22 50.4±.4	43.59N±.03	144.85E±.03	150±4					**¶97xi4782**
ISC	**XI**	**27 05 47 42**±1.9	**42.9N**±.17	**145.0E**±.16	**51**			**8**	**0-1**	
JMA	XI	27 05 47 42.5±.2	42.86N±.01	144.93E±.01	51±2	3.6				**¶97xi4805**
JMA	**XI**	**27 15 37 47.2**±.2	**41.93N**±.01	**139.23E**±.02	**18**±2	**3.3**				**¶97xi4888**
ISC	**XI**	**27 22 56 48**±1.8	**42.94N**±.083	**143.6E**±.10	**90**±22			**15**	**0-2**	
JMA	XI	27 22 56 48.4±.1	42.92N±.01	143.61E±.01	82±2	3.1				**¶97xi4955**
ISC	**XI**	**28 00 17 02**±5.1	**42.8N**±.15	**143.4E**±.32	**102**±51			**9**	**0-2**	
JMA	XI	28 00 17 01.6±.3	42.75N±.01	143.41E±.02	105±3					**¶97xi4967**
ISC	**XI**	**28 01 14 38**±1.3	**41.9N**±.25	**141.6E**±.27	**109**			**6**	**0-1**	
JMA	XI	28 01 14 38.2±.1	41.91N±.01	141.58E±.01	109±2					**¶97xi4985**
ISC	Poorly determined									
ISC	**XI**	**28 09 15 08**±2.1	**42.7N**±.15	**144.9E**±.16	**44**±32			**11**	**0-2**	
JMA	XI	28 09 15 08.1±.1	42.73N±.01	144.85E±.01	49±2	2.8				**¶97xi5048**
ISC	**XI**	**28 10 51 31**±4.7	**42.9N**±.22	**145.2E**±.27	**85**±42			**9**	**0-2**	
JMA	XI	28 10 51 31.5±.2	42.88N±.01	145.14E±.02	83±2	2.4				**¶97xi5067**
ISC	**XI**	**28 11 21 50**±1.1	**43.6N**±.21	**144.8E**±.18	**116**			**7**	**0-1**	
JMA	XI	28 11 21 50.2±.1	43.56N±.01	144.78E±.01	116±1					**¶97xi5070**
ISC	**XI**	**28 13 31 06**±2.8	**42.9N**±.13	**142.1E**±.11	**118**±32			**13**	**0-2**	
JMA	XI	28 13 31 07.3±.2	42.81N±.01	142.16E±.01	106±2					**¶97xi5091**
ISC	**XI**	**28 19 20 19**±2.2	**42.5N**±.27	**142.8E**±.55	**101**			**6**	**0-1**	
JMA	XI	28 19 20 18.9±.3	42.52N±.02	142.77E±.02	101±2					**¶97xi5129**
ISC	**XI**	**28 23 30 48.2**±.82	**42.47N**±.091	**142.6E**±.10	**29**±12			**9**	**0-1**	
JMA	XI	28 23 30 48.2±.1	42.46N±.01	142.55E±.01	29±2	2.9				**¶97xi5157**
ISC	**XI**	**29 01 07 01**±6.7	**43.7N**±.20	**144.9E**±.36	**130**±60			**9**	**0-2**	
JMA	XI	29 01 07 01.3±.2	43.67N±.01	144.88E±.01	124±2					**¶97xi5167**
JMA	**XI**	**29 02 03 40.8**±.2	**41.92N**±.01	**140.83E**±.01	**115**±3					**¶97xi5175**
ISC	**XI**	**29 02 31 43.7**±.75	**42.8N**±.14	**141.8E**±.14	**142**			**10**	**0-2**	
JMA	XI	29 02 31 43.8±.2	42.77N±.02	141.82E±.01	142±3					**¶97xi5178**
ISC	**XI**	**29 05 54 24**±1.7	**41.96N**±.078	**140.0E**±.17	**156**±18			**18**	**0-6**	
JMA	XI	29 05 54 24.4±.1	41.96N±.00	140.01E±.01	157±1					**¶97xi5207**
JMA	**XI**	**29 12 06 47.1**±.2	**43.02N**±.01	**144.36E**±.01	**115**±2					**¶97xi5260**
ISC	**XI**	**29 16 37 06**±4.0	**43.9N**±.56	**145.8E**±.54	**108**			**7**	**0-2**	
JMA	XI	29 16 37 05.9±.4	43.85N±.03	145.82E±.03	108±4					**¶97xi5291**
ISC	Poorly determined									
ISC	**XI**	**29 23 40 15**±2.4	**42.4N**±.14	**143.8E**±.16	**53**±33			**11**	**0-2**	
JMA	XI	29 23 40 14.8±.2	42.37N±.01	143.75E±.01	55±2	3.4				**¶97xi5342**
ISC	**XI**	**30 01 57 28**±5.1	**43.0N**±.12	**143.8E**±.29	**113**±50			**9**	**0-1**	
JMA	XI	30 01 57 27.6±.2	42.94N±.01	143.87E±.02	112±2					**¶97xi5351**
ISC	**XI**	**30 04 53 58**±3.3	**42.7N**±.11	**143.3E**±.13	**104**±36			**14**	**0-2**	
JMA	XI	30 04 53 57.7±.2	42.68N±.01	143.30E±.01	107±2					**¶97xi5366**
ISC	**XI**	**30 06 53 39**±1.7	**42.6N**±.10	**144.2E**±.11	**62**±23			**14**	**0-2**	
JMA	XI	30 06 53 38.8±.1	42.63N±.01	144.15E±.01	60±3	3.1				**¶97xi5377**
ISC	**XI**	**30 07 14 17**±5.6	**43.4N**±.22	**145.8E**±.65	**27**±23			**5**	**0-2**	
JMA	XI	30 07 14 11.6±.3	43.24N±.02	146.38E±.03	42±3	2.9				**¶97xi5380**
ISC	Poorly determined									
ISC	**XI**	**30 08 14 46**±5.4	**43.1N**±.24	**144.4E**±.34	**86**±58			**7**	**0-1**	
JMA	XI	30 08 14 46.0±.2	43.05N±.01	144.35E±.02	88±2	2.0				**¶97xi5387**
ISC	**XI**	**30 10 33 07**±2.6	**43.3N**±.17	**146.0E**±.31	**84**			**9**	**0-2**	
JMA	XI	30 10 33 07.2±.2	43.28N±.01	146.01E±.02	84±2	3.5				**¶97xi5402**
ISC	**XI**	**30 12 54 41**±9.1	**42.0N**±.17	**139.1E**±.76	**10**			**5**	**0-1**	
JMA	XI	30 12 54 43.5±.2	42.05N±.01	139.31E±.02	10±2	3.2				**¶97xi5414**
ISC	**XII**	**01 03 01 02**±6.9	**42.9N**±.54	**145.7E**±.50	**44**			**4**	**0-1**	
JMA	XII	01 03 01 02.2±.2	42.91N±.01	145.64E±.01	44±2	2.8				**¶97xii0020**
ISC	Poorly determined									
ISC	**XII**	**01 04 01 41**±2.5	**42.8N**±.12	**144.3E**±.16	**102**±28			**12**	**0-1**	
JMA	XII	01 04 01 41.5±.2	42.79N±.01	144.21E±.01	95±2					**¶97xii0030**
ISC	**XII**	**01 09 39 32**±3.8	**43.8N**±.11	**143.2E**±.12	**204**±38			**17**	**0-2**	
JMA	XII	01 09 39 33.6±.2	43.77N±.01	143.21E±.02	190±2					**¶97xii0063**
ISC	**XII**	**01 09 52 04**±1.2	**41.00N**±.050	**141.9E**±.13	**64**±37			**15**	**1-2**	
JMA	XII	01 09 52 04.0±.0	41.00N±.00	141.90E±.01	59±2	3.2				**¶97xii0064**
ISC	**XII**	**01 16 22 01**±1.6	**42.0N**±.11	**142.5E**±.11	**56**±27			**12**	**0-2**	
JMA	XII	01 16 22 01.2±.0	42.04N±.00	142.53E±.00	58±1	3.1				**¶97xii0113**
ISC	**XII**	**01 20 41 56**±2.2	**42.92N**±.094	**143.35E**±.091	**132**±25			**17**	**0-2**	
JMA	XII	01 20 41 56.4±.1	42.90N±.01	143.32E±.01	122±2					**¶97xii0144**
ISC	**XII**	**01 23 38 25**±3.1	**42.5N**±.24	**139.6E**±.44	**187**			**8**	**1-3**	
JMA	XII	01 23 38 24.9±.2	42.48N±.01	139.50E±.02	187±2					**¶97xii0160**
ISC	**XII**	**02 05 46 38.0**±.33	**44.38N**±.056	**142.2E**±.10	**231**±3.6	**3.6b**		**40**	**0-85**	
SKHL	XII	02 05 46 37.0	44.4N±.05	142.5E±.05	240±5					**¶97xii0190**
NEIC	XII	02 05 46 37.4	44.38N	142.11E	225	4.1b				
JMA	XII	02 05 46 38.6±.2	44.35N±.01	142.28E±.01	228±2					
EIDC	XII	02 05 46 39.3±.50	44.4N	142.1E	226±4.4	3.4b				
EIDC	Error ellipse is semi−major=21.1km semi−minor=14.9km azimuth=91									
JMA	**XII**	**02 07 49 05.7**±.3	**42.59N**±.02	**139.33E**±.03	**34**±3	**2.9**				**¶97xii0211**
ISC	**XII**	**02 12 00 50**±3.0	**41.6N**±.21	**143.3E**±.20	**33**±14			**9**	**0-2**	
JMA	XII	02 12 00 49.3±.1	41.63N±.01	143.26E±.01	47±3	3.6				**¶97xii0238**
ISC	**XII**	**02 12 33 02**±2.9	**41.7N**±.20	**143.3E**±.20	**33**±14			**9**	**0-2**	
JMA	XII	02 12 33 01.6±.2	41.61N±.01	143.27E±.01	42±3	2.9				**¶97xii0245**
ISC	**XII**	**02 13 01 45**±2.4	**42.5N**±.10	**142.9E**±.11	**127**±26			**15**	**0-2**	
JMA	XII	02 13 01 46.2±.2	42.57N±.01	142.88E±.01	111±2					**¶97xii0252**
ISC	**XII**	**02 13 51 49**±4.6	**42.7N**±.31	**143.5E**±.33	**111**±48			**7**	**0-2**	
JMA	XII	02 13 51 49.8±.2	42.74N±.02	143.52E±.02	105±3					**¶97xii0258**
ISC	**XII**	**03 00 46 57**±3.3	**43.1N**±.12	**142.2E**±.19	**151**±37			**10**	**0-2**	
JMA	XII	03 00 46 57.3±.2	43.09N±.01	142.19E±.02	155±2					**¶97xii0341**
ISC	**XII**	**03 01 00 39**±1.5	**42.3N**±.20	**142.9E**±.37	**68**			**5**	**0-1**	
JMA	XII	03 01 00 39.2±.2	42.29N±.01	142.93E±.01	68±2	1.6				**¶97xii0345**
JMA	**XII**	**04 02 19 36.4**±.3	**42.78N**±.01	**139.22E**±.03	**32**±4	**2.9**				**¶97xii0537**
ISC	**XII**	**04 06 36 07.6**±.70	**43.2N**±.11	**144.4E**±.13	**128**			**13**	**0-2**	
JMA	XII	04 06 36 07.6±.2	43.19N±.01	144.36E±.02	128±2					**¶97xii0566**
JMA	**XII**	**04 12 39 33.1**±.2	**42.80N**±.01	**143.80E**±.02	**79**±2	**1.3**				**¶97xii0615**
ISC	**XII**	**04 12 40 54**±3.1	**43.5N**±.11	**142.3E**±.14	**184**±31			**13**	**0-3**	
JMA	XII	04 12 40 54.7±.3	43.45N±.01	142.25E±.02	177±3					**¶97xii0617**
ISC	**XII**	**04 16 39 30**±1.7	**41.8N**±.14	**142.6E**±.14	**23**±17			**10**	**0-1**	
JMA	XII	04 16 39 30.2±.1	41.76N±.01	142.67E±.01	37±2	3.0				**¶97xii0651**
ISC	**XII**	**05 08 45 24.3**±.79	**41.44N**±.061	**143.0E**±.11	**44**			**16**	**1-2**	
JMA	XII	05 08 45 24.0±.1	41.43N±.00	142.97E±.01	44±3	3.3				**¶97xii0815**
ISC	**XII**	**05 08 52 08**±2.3	**41.13N**±.061	**140.7E**±.19	**115**±28			**15**	**0-2**	
JMA	XII	05 08 52 08.5±.2	41.13N±.01	140.72E±.02	114±2					**¶97xii0816**
ISC	**XII**	**06 00 22 43**±2.2	**43.0N**±.20	**145.0E**±.16	**26**±16			**6**	**0-1**	
JMA	XII	06 00 22 43.3±.2	42.98N±.01	145.02E±.01	24±2	3.0				**¶97xii1172**
ISC	**XII**	**06 04 40 44**±2.8	**42.8N**±.20	**143.3E**±.13	**130**±29			**10**	**0-2**	
JMA	XII	06 04 40 44.8±.2	42.82N±.02	143.27E±.01	119±2					**¶97xii1249**
ISC	**XII**	**06 04 59 37**±2.6	**42.9N**±.37	**143.1E**±.52	**82**			**5**	**0-1**	
JMA	XII	06 04 59 37.0±.4	42.85N±.02	143.13E±.03	82±4	1.8				**¶97xii1255**
ISC	Poorly determined									
ISC	**XII**	**06 21 45 27**±7.9	**44.6N**±.55	**142.1E**±.34	**274**±53			**14**	**1-5**	
JMA	XII	06 21 45 28.4±.1	44.55N±.02	142.08E±.03	264					**¶97xii1540**
JMA	**XII**	**07 04 21 55.2**±.2	**41.94N**±.00	**139.39E**±.02	**9**±3	**2.9**				**¶97xii1610**
ISC	**XII**	**07 17 36 06**±4.5	**42.3N**±.26	**143.1E**±.19	**60**±46			**6**	**0-1**	
JMA	XII	07 17 36 05.1±.2	42.22N±.01	143.08E±.01	64±2					**¶97xii1747**
ISC	**XII**	**07 18 31 40**±5.8	**44.5N**±.21	**142.5E**±.18	**270**±53			**15**	**0-3**	
JMA	XII	07 18 31 43.0±.3	44.49N±.02	142.44E±.02	241±3					**¶97xii1761**
ISC	**XII**	**08 05 50 34**±4.8	**41.4N**±.12	**142.7E**±.54	**23**			**7**	**1-2**	
JMA	XII	08 05 50 33.3±.2	41.38N±.01	142.76E±.02	23	3.1				**¶97xii1876**
ISC	**XII**	**08 17 27 52**±5.1	**42.7N**±.16	**139.2E**±.47	**17**±22			**7**	**1-2**	
JMA	XII	08 17 27 53.1±.2	42.71N±.01	139.20E±.02	25±3	2.9				**¶97xii1972**
ISC	**XII**	**09 00 29 27**±2.8	**42.7N**±.24	**144.7E**±.32	**82**			**8**	**0-1**	
JMA	XII	09 00 29 27.2±.3	42.66N±.02	144.62E±.02	82±3	2.7				**¶97xii2053**
ISC	**XII**	**09 06 37 46**±6.0	**41.1N**±.14	**139.4E**±.70	**24**			**7**	**1-1**	
JMA	XII	09 06 37 44.0±.1	41.09N±.00	139.20E±.01	24±2	3.3				**¶97xii2119**
ISC	Poorly determined									
JMA	**XII**	**10 01 27 11.5**±.2	**42.90N**±.01	**143.34E**±.02	**109**±2					**¶97xii2275**
ISC	**XII**	**10 02 16 51**±3.6	**43.0N**±.26	**144.8E**±.22	**63**±40			**6**	**0-1**	
JMA	XII	10 02 16 51.2±.2	42.97N±.01	144.80E±.01	61±2	1.9				**¶97xii2278**
ISC	Poorly determined									
JMA	**XII**	**10 04 27 49.5**±.3	**42.33N**±.03	**144.95E**±.02	**72**±5	**2.4**				**¶97xii2289**
ISC	**XII**	**10 15 33 50.2**±.73	**41.54N**±.063	**142.0E**±.11	**58**			**11**	**1-2**	
JMA	XII	10 15 33 50.0±.1	41.51N±.01	142.02E±.01	58±4	2.8				**¶97xii2377**
JMA	**XII**	**11 00 57 48.1**±.1	**42.50N**±.01	**142.64E**±.01	**71**±2	**1.5**				**¶97xii2458**
ISC	**XII**	**11 14 48 43**±1.9	**41.21N**±.063	**141.3E**±.18	**86**±28			**13**	**0-2**	
JMA	XII	11 14 48 43.4±.1	41.20N±.00	141.33E±.01	85±2	2.4				**¶97xii2586**
ISC	**XII**	**11 20 40 31**±1.6	**42.7N**±.11	**144.4E**±.12	**54**±27			**12**	**0-1**	
JMA	XII	11 20 40 31.4±.1	42.72N±.01	144.33E±.01	53±2	3.4				**¶97xii2636**
ISC	**XII**	**11 23 06 38**±3.6	**43.3N**±.17	**145.7E**±.36	**24**±26			**5**	**0-1**	
JMA	XII	11 23 06 30.5±.3	43.18N±.02	146.43E±.03	51±3	3.0				**¶97xii2652**
ISC	Poorly determined									
ISC	**XII**	**11 23 50 55**±1.4	**43.8N**±.15	**145.5E**±.19	**152**±11			**14**	**0-64**	
JMA	XII	11 23 50 56.8±.2	43.63N±.02	145.29E±.02	141±2					**¶97xii2658**
ISC	**XII**	**12 03 55 43**±3.3	**42.6N**±.21	**143.2E**±.37	**53**±43			**6**	**0-1**	
JMA	XII	12 03 55 42.0±.2	42.54N±.01	143.20E±.01	62±2	1.8				**¶97xii2690**
ISC	Poorly determined									
JMA	**XII**	**12 14 16 28.3**±.2	**42.91N**±.01	**142.76E**±.02	**75**±3					**¶97xii2761**
ISC	**XII**	**12 19 01 36**±1.6	**43.2N**±.32	**144.0E**±.36	**130**			**9**	**0-1**	
JMA	XII	12 19 01 36.1±.4	43.12N±.02	143.97E±.02	130±3					**¶97xii2805**
ISC	**XII**	**12 20 20 55**±2.1	**42.6N**±.21	**144.3E**±.15	**65**			**10**	**0-1**	
JMA	XII	12 20 20 55.8±.2	42.62N±.02	144.27E±.02	65±3	2.2				**¶97xii2815**
ISC	**XII**	**13 09 40 26**±4.3	**43.1N**±.39	**145.9E**±.44	**75**			**8**	**0-2**	
JMA	XII	13 09 40 26.5±.3	43.05N±.02	145.92E±.02	75±2	2.2				**¶97xii2926**
ISC	**XII**	**13 09 59 38**±6.4	**43.3N**±.25	**144.3E**±.21	**140**±63			**8**	**0-2**	
JMA	XII	13 09 59 38.5±.3	43.30N±.02	144.27E±.02	140±3					**¶97xii2928**
ISC	**XII**	**13 17 19 21**±2.3	**42.22N**±.093	**141.3E**±.11	**90**±29			**14**	**0-2**	
JMA	XII	13 17 19 20.2±.2	42.20N±.01	141.29E±.01	96±2					**¶97xii2982**
JMA	**XII**	**13 17 58 37.6**±.3	**42.25N**±.01	**139.23E**±.02	**19**±2	**3.1**				**¶97xii2986**
ISC	**XII**	**13 20 33 48**±1.7	**43.7N**±.19	**145.7E**±.25	**125**			**9**	**0-2**	
JMA	XII	13 20 33 47.7±.3	43.59N±.02	145.67E±.02	125±2					**¶97xii3014**
ISC	**XII**	**14 10 38 43**±2.0	**44.1N**±.24	**145.4E**±.25	**144**			**9**	**0-2**	
JMA	XII	14 10 38 43.6±.3	44.06N±.02	145.40E±.02	144±3					**¶97xii3132**
ISC	**XII**	**14 10 52 56**±4.3	**44.9N**±.54	**145.7E**±.35	**255**			**8**	**1-4**	
JMA	XII	14 10 52 56.5±.3	44.80N±.03	145.64E±.03	255±3					**¶97xii3135**
ISC	**XII**	**14 12 40 05**±8.3	**42.7N**±.34	**145.8E**±.65	**63**±60			**8**	**1-2**	
JMA	XII	14 12 40 04.8±.2	42.71N±.01	145.82E±.02	65±2	2.8				**¶97xii3147**
ISC	**XII**	**14 12 42 49**±2.2	**42.9N**±.22	**143.9E**±.18	**73**±29			**10**	**0-1**	
JMA	XII	14 12 42 49.6±.1	42.87N±.01	143.83E±.01	67±2	1.7				**¶97xii3148**
ISC	**XII**	**14 13 07 55**±2.0	**42.1N**±.18	**144.1E**±.16	**56**			**9**	**1-2**	
JMA	XII	14 13 07 55.6±.2	42.16N±.01	144.05E±.01	56±3	2.8				**¶97xii3153**
ISC	**XII**	**14 15 34 06**±1.0	**41.95N**±.075	**139.86E**±.098	**15**			**8**	**0-1**	
JMA	XII	14 15 34 06.3±.0	41.96N±.00	139.88E±.00	15±1	3.2				**¶97xii3165**
JMA	**XII**	**14 19 20 11.1**±.3	**41.47N**±.01	**141.98E**±.04	**66**	**2.1**				**¶97xii3183**
ISC	**XII**	**15 08 37 50**±2.4	**43.2N**±.17	**140.2E**±.27	**10**±22			**7**	**0-1**	
JMA	XII	15 08 37 50.1±.1	43.24N±.01	140.21E±.01	14±2	3.2				**¶97xii3257**
ISC	**XII**	**15 08 44 22**±1.0	**42.7N**±.13	**141.7E**±.15	**120**			**13**	**0-2**	
JMA	XII	15 08 44 22.3±.3	42.64N±.01	141.68E±.02	120±3					**¶97xii3258**

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**XII**	**15 20 27 18**±6.0	**43.2N**±.39	**143.8E**±.43	**121**±58		**7**	**0-1**	
JMA	XII	15 20 27 15.7±.3	43.17N±.03	143.81E±.03	140±3				¶97xii3338
JMA	**XII**	**15 23 44 20.9**±.4	**42.89N**±.02	**143.62E**±.03	**118**±3				¶97xii3359
ISC	**XII**	**16 03 26 18**±2.5	**42.6N**±.29	**142.7E**±.59	**104**		**7**	**0-2**	
JMA	XII	16 03 26 17.9±.2	42.56N±.01	142.78E±.02	104±2				¶97xii3377
ISC	**XII**	**16 05 53 20**±4.4	**41.6N**±.18	**141.5E**±.25	**117**±55		**11**	**0-2**	
JMA	XII	16 05 53 20.1±.1	41.59N±.01	141.52E±.01	113±2				¶97xii3393
ISC	**XII**	**16 07 18 43**±2.8	**43.2N**±.11	**144.4E**±.18	**83**±30		**11**	**0-2**	
JMA	XII	16 07 18 42.8±.1	43.12N±.01	144.41E±.01	86±2	2.4			¶97xii3402
ISC	**XII**	**16 12 36 25**±2.6	**41.23N**±.069	**141.5E**±.20	**118**±36		**12**	**0-2**	
JMA	XII	16 12 36 26.0±.1	41.21N±.00	141.51E±.01	111±2				¶97xii3450
ISC	**XII**	**16 13 57 09**±1.0	**45.6N**±.13	**142.7E**±.21	**313**		**16**	**1-5**	
SKHL	XII	16 13 57 06.0	46.4N±.10	144.4E±.05	335±5				¶97xii3458
JMA	XII	16 13 57 09.8±.3	45.45N±.04	142.70E±.04	313				
ISC	**XII**	**16 15 34 25**±4.9	**43.0N**±.27	**145.9E**±.46	**47**		**7**	**0-2**	
JMA	XII	16 15 34 25.4±.2	43.07N±.01	145.81E±.02	47±2	3.1			¶97xii3471
ISC	**XII**	**16 18 38 33**±4.6	**42.9N**±.12	**143.8E**±.20	**116**±46		**11**	**0-1**	
JMA	XII	16 18 38 33.4±.2	42.88N±.01	143.86E±.01	110±2				¶97xii3487
ISC	**XII**	**17 02 31 23**±1.8	**43.1N**±.46	**143.5E**±.44	**135**		**6**	**0-2**	
JMA	XII	17 02 31 23.2±.5	43.03N±.04	143.44E±.03	135±5				¶97xii3539
ISC	**XII**	**17 03 06 51**±4.0	**43.0N**±.30	**145.4E**±.27	**27**±16		**6**	**0-1**	
JMA	XII	17 03 06 49.9±.1	42.89N±.01	145.53E±.01	43±1	2.9			¶97xii3543
ISC	**XII**	**18 01 11 30**±1.5	**42.9N**±.19	**144.4E**±.26	**95**		**7**	**0-1**	
JMA	XII	18 01 11 29.5±.3	42.85N±.02	144.34E±.02	95±3				¶97xii3689
ISC	**XII**	**18 10 14 29**±5.3	**44.3N**±.19	**141.7E**±.23	**264**±47		**17**	**0-3**	
JMA	XII	18 10 14 31.4±.4	44.30N±.02	141.67E±.03	241±4				¶97xii3748
ISC	**XII**	**18 15 47 53**±1.0	**42.27N**±.072	**144.7E**±.11	**37**±9.7	**3.5b**	**23**	**1-85**	
JMA	XII	18 15 47 53.1±.2	42.32N±.01	144.69E±.02	55±4	3.8			¶97xii3789
NEIC	XII	18 15 47 53.2	42.29N	144.42E	33				
EIDC	XII	18 15 47 55.8±.92	42.2N	144.7E	44±8.5	3.3b,3.8L			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=20.7km semi−minor=10.7km azimuth=48								
ISC	**XII**	**18 18 51 41**±1.4	**41.92N**±.090	**142.5E**±.11	**45**±40		**12**	**0-2**	
JMA	XII	18 18 51 40.7±.0	41.90N±.00	142.47E±.01	54±2	3.4			¶97xii3804
JMA	**XII**	**18 22 10 03.7**±.1	**43.70N**±.01	**145.52E**±.01	**114**±1				¶97xii3842
ISC	**XII**	**19 01 03 33**±2.0	**43.7N**±.20	**145.7E**±.27	**92**		**7**	**0-2**	
JMA	XII	19 01 03 33.2±.2	43.65N±.01	145.73E±.02	92±2				¶97xii3865
JMA	**XII**	**19 01 15 41.2**±.4	**42.78N**±.01	**139.23E**±.03	**35**±4	**2.9**			¶97xii3868
ISC	**XII**	**19 03 29 45**±2.4	**42.6N**±.15	**144.3E**±.16	**89**±27		**12**	**0-2**	
JMA	XII	19 03 29 45.8±.2	42.55N±.01	144.26E±.01	81±3	2.8			¶97xii3885
ISC	**XII**	**19 05 24 37**±1.8	**42.44N**±.094	**142.7E**±.10	**82**±24		**13**	**0-2**	
JMA	XII	19 05 24 37.6±.1	42.44N±.01	142.72E±.01	76±2	3.5			¶97xii3895
ISC	**XII**	**19 12 12 34**±3.1	**42.7N**±.12	**143.2E**±.14	**97**±33		**13**	**0-1**	
JMA	XII	19 12 12 33.2±.2	42.66N±.01	143.21E±.01	104±2				¶97xii3955
ISC	**XII**	**19 16 47 19.7**±.66	**41.55N**±.059	**142.14E**±.087	**30**		**14**	**1-2**	
JMA	XII	19 16 47 19.1±.1	41.52N±.01	142.15E±.01	30±3	3.3			¶97xii3995
ISC	**XII**	**19 19 18 07.7**±.81	**42.0N**±.11	**142.5E**±.10	**67**±7.9		**16**	**0-51**	
JMA	XII	19 19 18 08.1±.0	42.03N±.00	142.52E±.01	59±1	3.6			¶97xii4020
ISC	**XII**	**20 00 15 14**±1.1	**44.0N**±.21	**143.6E**±.19	**197**		**10**	**0-2**	
JMA	XII	20 00 15 14.4±.5	43.97N±.03	143.57E±.03	197±5				¶97xii4055
ISC	**XII**	**20 13 10 04**±2.6	**42.3N**±.20	**144.0E**±.15	**57**±39		**10**	**1-2**	
JMA	XII	20 13 10 04.5±.2	42.38N±.01	143.94E±.01	56±3	2.8			¶97xii4116
ISC	**XII**	**20 17 15 09**±1.4	**41.9N**±.14	**140.3E**±.23	**145**		**11**	**0-3**	
JMA	XII	20 17 15 08.9±.2	41.94N±.01	140.27E±.02	145±2				¶97xii4140
ISC	**XII**	**20 21 27 06**±3.5	**42.9N**±.18	**143.5E**±.18	**93**±40		**8**	**0-2**	
JMA	XII	20 21 27 06.5±.1	42.87N±.01	143.53E±.01	86±2	1.7			¶97xii4173
ISC	**XII**	**21 06 27 00**±1.3	**42.9N**±.41	**144.0E**±.22	**89**		**6**	**0-1**	
JMA	XII	21 06 27 00.4±.2	42.90N±.01	143.93E±.01	89±2	2.0			¶97xii4225
ISC	Poorly determined								
ISC	**XII**	**21 20 53 32.6**±.76	**43.3N**±.16	**144.7E**±.19	**129**		**9**	**0-2**	
JMA	XII	21 20 53 32.4±.2	43.26N±.02	144.64E±.02	129±2				¶97xii4301
ISC	**XII**	**21 21 26 14**±1.1	**43.0N**±.14	**142.9E**±.19	**83**		**5**	**0-1**	
JMA	XII	21 21 26 14.0±.1	42.94N±.02	142.87E±.03	83	1.7			¶97xii4307
ISC	**XII**	**21 22 37 42**±1.5	**42.1N**±.11	**142.6E**±.11	**55**±24		**12**	**0-1**	
JMA	XII	21 22 37 42.3±.1	42.13N±.01	142.59E±.01	55±1	2.8			¶97xii4314
ISC	**XII**	**22 01 03 44**±2.6	**42.5N**±.40	**143.6E**±.35	**87**		**5**	**0-1**	
JMA	XII	22 01 03 43.7±.3	42.56N±.02	143.65E±.02	87±3	1.7			¶97xii4330
ISC	Poorly determined								
ISC	**XII**	**22 01 30 19**±2.9	**42.8N**±.20	**145.0E**±.18	**56**±34		**9**	**0-2**	
JMA	XII	22 01 30 19.4±.1	42.85N±.01	144.93E±.01	52±2	3.5			¶97xii4333
ISC	**XII**	**22 05 14 46**±3.6	**42.7N**±.13	**142.4E**±.14	**104**±40		**10**	**0-2**	
JMA	XII	22 05 14 46.5±.3	42.77N±.02	142.40E±.02	97±3				¶97xii4356
ISC	**XII**	**22 08 06 42**±5.1	**43.0N**±.28	**143.3E**±.35	**93**±50		**6**	**0-1**	
JMA	XII	22 08 06 41.8±.2	42.91N±.02	143.26E±.02	94±2				¶97xii4384
ISC	**XII**	**22 09 25 06**±1.3	**41.96N**±.087	**142.39E**±.095	**47**±33		**13**	**0-2**	
JMA	XII	22 09 25 05.4±.0	41.94N±.00	142.38E±.00	53±1	3.4			¶97xii4393
ISC	**XII**	**22 12 01 09**±2.1	**42.59N**±.087	**142.26E**±.092	**98**±28		**15**	**0-2**	
JMA	XII	22 12 01 09.2±.1	42.57N±.01	142.27E±.01	91±1	3.3			¶97xii4418
ISC	**XII**	**22 17 34 41**±2.3	**43.0N**±.12	**144.4E**±.14	**79**±27		**11**	**0-2**	
JMA	XII	22 17 34 41.3±.1	43.01N±.01	144.41E±.01	75±2	2.2			¶97xii4457
ISC	**XII**	**22 19 08 03.8**±.25	**43.07N**±.026	**143.39E**±.030	**119**±2.2	**5.3b**	**459**	**0-156**	
MOS	XII	22 19 08 02.4	43.1N	143.4E	110	5.7b			¶97xii4471
BJI	XII	22 19 08 02.6	43.11N	143.41E	115	5.3b			
NEIC	XII	22 19 08 03.2	43.08N	143.38E	115	5.3b			
SKHL	XII	22 19 08 04.0	43.0N±.05	143.5E±.09	130±2				
JMA	XII	22 19 08 04.6±.1	42.98N±.01	143.49E±.01	113±2	5.1			
EIDC	XII	22 19 08 05.5±.47	43.1N	143.5E	125±3.7	5.1b			
NEIC	Felt I=III J1 in southeastern Hokkaido and I J1 in eastern Aomori, northern Miyagi and much of Iwate Prefectures, Honshu.								
SKHL	K11.5								
JMA	Nodal plane solution: N151, Score 97%. NP1:φS39°,δ65°,λ159°. NP2:φS139°,δ70°,λ27°. Principle axes: T Plg33°,Azm0°; N Plg57°,Azm173°; P Plg3°,Azm268°.								
EIDC	Error ellipse is semi−major=9.9km semi−minor=7.7km azimuth=79Multiple, mixed az								
ISC	**XII**	**23 01 52 40**±3.7	**44.1N**±.56	**145.0E**±.35	**164**		**6**	**1-2**	
JMA	XII	23 01 52 41.2±.2	43.94N±.04	145.00E±.03	164				¶97xii4516
ISC	**XII**	**23 06 17 58**±3.3	**42.3N**±.28	**142.5E**±.20	**60**±44		**6**	**0-1**	
JMA	XII	23 06 17 58.0±.1	42.26N±.01	142.51E±.01	62±1	1.6			¶97xii4550
ISC	Poorly determined								
ISC	**XII**	**23 06 38 50**±1.2	**42.4N**±.37	**140.5E**±.69	**212**		**9**	**0-3**	
JMA	XII	23 06 38 49.7±.1	42.44N±.02	140.45E±.03	212				¶97xii4554
ISC	**XII**	**23 09 30 57**±1.1	**41.55N**±.058	**142.06E**±.091	**47**±60		**15**	**1-2**	
JMA	XII	23 09 30 56.3±.0	41.54N±.00	142.06E±.01	59±2	2.8			¶97xii4577
ISC	**XII**	**23 13 30 33.2**±.77	**41.32N**±.060	**142.3E**±.11	**40**		**13**	**1-2**	
JMA	XII	23 13 30 32.6±.1	41.30N±.00	142.34E±.01	40±4	2.8			¶97xii4606
JMA	**XII**	**23 23 26 14.4**±.4	**43.19N**±.05	**144.52E**±.03	**126**±3				¶97xii4669
ISC	**XII**	**24 05 44 49**±4.0	**42.5N**±.23	**143.7E**±.31	**92**±44		**7**	**0-1**	
JMA	XII	24 05 44 49.7±.3	42.49N±.02	143.68E±.03	83±4	1.7			¶97xii4711
ISC	**XII**	**24 05 52 03**±1.7	**43.7N**±.13	**141.1E**±.28	**206**		**11**	**1-3**	
JMA	XII	24 05 52 03.2±.2	43.65N±.02	141.01E±.04	206				¶97xii4713
ISC	**XII**	**24 14 13 15**±1.6	**42.9N**±.11	**144.6E**±.13	**60**±22		**12**	**0-2**	
JMA	XII	24 14 13 15.4±.1	42.85N±.01	144.53E±.01	57±2	3.4			¶97xii4768
ISC	**XII**	**24 15 34 22**±4.0	**42.5N**±.13	**143.1E**±.22	**107**±41		**13**	**0-2**	
JMA	XII	24 15 34 22.1±.2	42.55N±.01	143.19E±.02	102±2				¶97xii4784
ISC	**XII**	**24 17 36 10**±4.4	**43.0N**±.13	**143.8E**±.20	**91**±44		**8**	**0-1**	
JMA	XII	24 17 36 10.1±.1	42.94N±.01	143.74E±.01	84±2	2.1			¶97xii4793
ISC	**XII**	**24 18 39 07**±2.6	**42.8N**±.13	**139.5E**±.27	**33**		**9**	**0-1**	
JMA	XII	24 18 39 07.1±.2	42.76N±.01	139.47E±.02	33±3	3.6			¶97xii4805
ISC	**XII**	**24 23 08 39**±4.4	**43.3N**±.11	**141.5E**±.17	**172**±46		**12**	**0-2**	
JMA	XII	24 23 08 39.7±.2	43.27N±.01	141.49E±.01	172±2				¶97xii4838
ISC	**XII**	**25 06 09 18**±2.0	**43.0N**±.18	**144.6E**±.28	**64**		**8**	**0-1**	
JMA	XII	25 06 09 17.7±.2	42.96N±.01	144.58E±.01	64±2	2.0			¶97xii4877
ISC	**XII**	**25 14 35 40**±1.4	**43.3N**±.28	**142.4E**±.26	**161**		**8**	**0-2**	
JMA	XII	25 14 35 40.4±.2	43.31N±.01	142.36E±.01	161±2				¶97xii4947
ISC	**XII**	**25 23 17 07**±2.2	**43.0N**±.30	**144.8E**±.20	**60**		**5**	**1-1**	
JMA	XII	25 23 17 06.7±.3	43.00N±.02	144.77E±.02	60±3	2.0			¶97xii5003
ISC	Poorly determined								
ISC	**XII**	**26 07 08 56**±5.1	**43.1N**±.18	**143.9E**±.37	**123**±48		**8**	**0-1**	
JMA	XII	26 07 08 56.8±.2	43.02N±.01	143.93E±.02	114±2				¶97xii5075
ISC	**XII**	**26 12 44 22**±1.7	**41.90N**±.093	**141.6E**±.14	**70**±29		**11**	**0-2**	
JMA	XII	26 12 44 21.3±.1	41.89N±.01	141.57E±.01	74±2	2.0			¶97xii5117
ISC	**XII**	**26 12 55 15**±1.0	**41.52N**±.085	**142.7E**±.12	**34**		**12**	**1-2**	
JMA	XII	26 12 55 14.9±.1	41.51N±.01	142.72E±.01	34±3	3.6			¶97xii5120
ISC	**XII**	**26 13 09 58**±1.5	**42.47N**±.086	**142.69E**±.090	**80**±22		**15**	**0-2**	
JMA	XII	26 13 09 58.0±.1	42.48N±.01	142.68E±.01	75±1	2.3			¶97xii5126
ISC	**XII**	**26 13 13 26**±1.8	**43.8N**±.27	**145.5E**±.33	**145**		**8**	**0-2**	
JMA	XII	26 13 13 26.6±.3	43.78N±.02	145.45E±.03	145±3				¶97xii5128
ISC	**XII**	**26 13 16 58**±2.2	**42.6N**±.26	**144.3E**±.17	**66**		**7**	**0-1**	
JMA	XII	26 13 16 58.1±.2	42.66N±.02	144.30E±.01	66±3	2.0			¶97xii5130
ISC	**XII**	**26 16 57 25**±5.6	**42.7N**±.23	**140.9E**±.24	**181**±61		**12**	**1-3**	
JMA	XII	26 16 57 27.2±.2	42.66N±.02	141.01E±.03	157				¶97xii5178
ISC	**XII**	**26 17 42 41**±4.6	**42.8N**±.12	**141.2E**±.18	**141**±51		**13**	**0-2**	
JMA	XII	26 17 42 41.0±.1	42.78N±.01	141.19E±.01	137±2				¶97xii5182
ISC	**XII**	**27 06 02 29**±2.1	**41.67N**±.081	**139.4E**±.22	**16**±22		**8**	**0-1**	
JMA	XII	27 06 02 29.6±.1	41.69N±.00	139.43E±.01	20±1	3.4			¶97xii5260
ISC	**XII**	**27 19 16 08**±3.8	**42.8N**±.15	**143.9E**±.18	**116**±38		**14**	**0-3**	
JMA	XII	27 19 16 08.6±.2	42.80N±.01	143.87E±.01	106±2				¶97xii5336
ISC	**XII**	**28 02 41 50.7**±.80	**41.27N**±.055	**142.7E**±.11	**13**		**18**	**1-2**	
JMA	XII	28 02 41 50.4±.2	41.25N±.01	142.73E±.01	13±3	3.4			¶97xii5382
ISC	**XII**	**28 08 39 45**±3.7	**41.68N**±.094	**140.1E**±.30	**184**±33		**17**	**0-2**	
JMA	XII	28 08 39 45.7±.2	41.68N±.01	140.08E±.01	178±2				¶97xii5425
ISC	**XII**	**28 09 47 08.6**±.72	**42.80N**±.083	**144.0E**±.10	**110**±7.2	3.2b	**18**	**0-85**	
JMA	XII	28 09 47 09.7±.1	42.80N±.01	143.94E±.01	97±2	2.8			¶97xii5435
EIDC	XII	28 09 47 10.5±3.51	42.8N	143.8E	113±30.4	3.1b			
EIDC	Error ellipse is semi−major=66.2km semi−minor=37.5km azimuth=94								
ISC	**XII**	**28 10 27 55**±6.0	**44.7N**±.22	**144.8E**±.32	**241**±50		**18**	**1-4**	
JMA	XII	28 10 27 57.9±.4	44.64N±.03	144.70E±.03	217±5				¶97xii5440
ISC	**XII**	**29 00 13 25**±2.1	**42.8N**±.20	**145.5E**±.19	**53**±10	**4.0b**	**18**	**1-70**	
JMA	XII	29 00 13 25.3±.2	42.84N±.01	145.49E±.02	47±2	4.2			¶97xii5516
NEIC	XII	29 00 13 26.9	43.54N	145.15E	33	4.3b			
EIDC	XII	29 00 13 31.6±3.76	43.3N	145.3E	67±37.0	3.6b,3.8L			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=54.0km semi−minor=36.4km azimuth=166								
ISC	**XII**	**29 01 49 53**±3.6	**42.8N**±.12	**143.0E**±.16	**89**±40		**10**	**0-1**	
JMA	XII	29 01 49 53.0±.2	42.79N±.01	143.03E±.01	83±3	1.9			¶97xii5530
ISC	**XII**	**29 04 13 08**±2.8	**42.8N**±.20	**145.0E**±.19	**47**±37		**8**	**0-1**	
JMA	XII	29 04 13 08.1±.2	42.85N±.01	144.99E±.01	48±2	3.0			¶97xii5543
ISC	**XII**	**30 01 19 40**±1.3	**43.2N**±.15	**145.3E**±.18	**102**		**9**	**0-2**	
JMA	XII	30 01 19 40.0±.2	43.21N±.01	145.28E±.01	102±2				¶97xii5668
ISC	**XII**	**30 02 23 40**±1.8	**41.8N**±.29	**140.8E**±.66	**125**		**4**	**0-1**	
JMA	XII	30 02 23 39.5±.3	41.83N±.01	140.83E±.01	125±3				¶97xii5671
ISC	Poorly determined								
ISC	**XII**	**30 05 16 27**±2.8	**42.84N**±.093	**141.7E**±.14	**115**±34		**13**	**0-2**	
JMA	XII	30 05 16 27.0±.1	42.83N±.01	141.69E±.01	113±2				¶97xii5684
ISC	**XII**	**30 07 48 47**±6.0	**42.7N**±.21	**141.8E**±.20	**147**±62		**11**	**0-2**	
JMA	XII	30 07 48 48.6±.3	42.69N±.02	141.86E±.02	133±3				¶97xii5705
ISC	**XII**	**30 13 32 09**±7.4	**44.0N**±.25	**145.3E**±.42	**142**±61		**10**	**0-2**	
JMA	XII	30 13 32 10.4±.2	43.90N±.01	145.25E±.02	137±2				¶97xii5741
ISC	**XII**	**30 17 44 38**±3.0	**42.0N**±.15	**141.7E**±.42	**71**		**8**	**1-1**	
JMA	XII	30 17 44 37.9±.1	41.99N±.00	141.72E±.01	71±2	2.3			¶97xii5766
ISC	**XII**	**31 18 07 52.1**±.75	**42.53N**±.078	**142.58E**±.092	**34**		**9**	**0-1**	
JMA	XII	31 18 07 51.9±.0	42.52N±.01	142.57E±.01	34±1	2.8			¶97xii5939
ISC	**XII**	**31 20 13 45.7**±.69	**41.15N**±.065	**140.2E**±.18	**152**		**15**	**1-2**	
JMA	XII	31 20 13 46.0±.1	41.16N±.00	140.25E±.01	152±1				¶97xii5963
ISC	**XII**	**31 22 39 11.6**±.56	**42.7N**±.10	**142.0E**±.11	**132**		**16**	**0-2**	
JMA	XII	31 22 39 11.7±.2	42.74N±.01	141.97E±.01	132±2				¶97xii5992

(225) Off coast of Hokkaido.

ISC	**VII**	**06 14 46 55.7**±.63	**42.92N**±.071	**149.54E**±.076	**40**	**3.7b**	**44**	**3-82**	
NEIC	VII	06 14 46 55.5	43.16N	149.52E	33				¶97vii0893
JMA	VII	06 14 46 57.7±.7	43.27N±.07	149.61E±.06	40	3.9			
EIDC	VII	06 14 46 59.5	43.2N	149.3E	49	3.6b,3.1L			
NEIC	Single network solution.								
EIDC	**VII**	**06 15 17 25.7**	**41.7N**	**146.2E**	**0**	**3.4b**		**44-66**	
									¶97vii0897
ISC	**VII**	**11 18 52 02**±3.1	**42.89N**±.064	**146.7E**±.33	**42**		**35**	**1-7**	
JMA	VII	11 18 52 08.1±.3	43.00N±.02	146.04E±.03	42±3	3.4			¶97vii1715
ISC	**VII**	**22 20 47 20**±8.5	**42.8N**±.23	**146.5E**±.85	**53**		**23**	**1-7**	
JMA	VII	22 20 47 19.7±.3	42.77N±.02	146.48E±.03	53	3.2			¶97vii3431
JMA	**VIII**	**01 21 34 01.5**±.6	**42.84N**±.04	**146.63E**±.06	**63**				¶97viii0118
ISC	**VIII**	**07 00 40 43.7**±.70	**42.19N**±.077	**149.66E**±.096	**10**	**4.2b,3.5s**	**52**	**3-150**	
NEIC	VIII	07 00 40 42.2	41.91N	149.86E	10	4.4b			¶97viii0865
EIDC	VIII	07 00 40 42.2	41.9N	150.0E	0	3.7b,3.5s			
BJI	VIII	07 00 40 44.7	41.60N	150.28E	18				
SKHL	VIII	07 00 40 53.0	42.6N±.09	149.1E±.13	46±2				
NEIC	Poor solution.								
SKHL	K10								
ISC	**VIII**	**16 11 06 20**±2.5	**42.4N**±.13	**146.3E**±.28	**77**±59		**22**	**1-5**	
JMA	VIII	16 11 06 23.1±.5	42.47N±.02	145.86E±.04	54	3.3			¶97viii2353
JMA	**VIII**	**24 22 12 46.7**±.2	**42.50N**±.02	**147.70E**±.02	**69**				¶97viii3599
JMA	**IX**	**28 11 37 47.7**±.3	**42.96N**±.02	**146.56E**±.03	**68**±3				¶97ix4630
ISC	**IX**	**28 15 01 04**±1.7	**42.87N**±.069	**147.3E**±.17	**33**±13	**3.6b**	**44**	**1-71**	
NEIC	IX	28 15 01 02.8	43.00N	147.68E	33				¶97ix4673
JMA	IX	28 15 01 07.8±.4	43.01N±.02	146.81E±.04	53	3.7			
SKHL	IX	28 15 01 08.0	43.1N±.03	147.0E±.03	37±5				
EIDC	IX	28 15 01 24.2	43.0N	146.8E	196	3.1b			
NEIC	Poor solution.								
SKHL	K10								

JMA	X	**18 21 30 02.3**±.4	**42.18N**±.02	**147.48E**±.03	**14**	**3.4**			**¶97x3239**
JMA	X	**19 01 34 07.9**±.2	**42.94N**±.02	**146.30E**±.02	**51**±3	**2.9**			**¶97x3269**
JMA	XII	**27 01 09 45.1**±.4	**41.83N**±.02	**146.75E**±.03	**21**	**3.0**			**¶97xii5220**

(226) Near west coast of Honshū.

ISC	**VII**	**02 04 57 13**±4.6	**39.53N**±.072	**139.1E**±.27	**8**±36			**14**	**1-2**
JMA	VII	02 04 57 14.2±.2	39.53N±.01	139.11E±.02	26±2	3.2		**¶97vii0182**	
ISC	**VII**	**04 00 12 31**±7.3	**40.3N**±.14	**139.2E**±.55	**0**±18			**11**	**1-2**
JMA	VII	04 00 12 29.9±.7	40.41N±.02	139.15E±.05	7	3.1		**¶97vii0472**	
ISC	**VII**	**05 13 37 07**±1.2	**37.9N**±.13	**137.73E**±.093	**8**±16			**13**	**0-2**
JMA	VII	05 13 37 07.4±.2	37.90N±.02	137.73E±.01	19±5	3.0		**¶97vii0735**	
ISC	**VII**	**05 19 28 09.0**±.86	**38.01N**±.028	**139.22E**±.042	**12**±7.2	3.0b		**48**	**0-50**
EIDC	VII	05 19 28 07.5	38.0N	139.3E	0	2.7L,3.1b		**¶97vii0774**	
JMA	VII	05 19 28 09.3±.1	37.98N±.00	139.25E±.01	12±2	3.7			
NEIC	VII	05 19 28 10.3	38.04N	139.20E	33				
ISC	**VII**	**05 19 28 17.5**±.35	**38.04N**±.037	**139.21E**±.047	**39**±9.6	**3.7b**		**54**	**0-67**
JMA	VII	05 19 28 16.0±.1	37.98N±.00	139.25E±.01	10±2	3.8		**¶97vii0775**	
NEIC	VII	05 19 28 16.8	38.08N	139.22E	33				
EIDC	VII	05 19 28 19.3	38.1N	139.3E	42	3.2L,3.6b			
ISC	**VII**	**05 20 18 10.9**±.54	**38.02N**±.031	**139.21E**±.042	**18**±6.3	**3.6b**		**50**	**0-80**
EIDC	VII	05 20 18 08.4	38.1N	139.4E	0	3.6b,2.9L		**¶97vii0785**	
JMA	VII	05 20 18 10.8±.1	37.99N±.00	139.24E±.01	12±2	3.7			
NEIC	VII	05 20 18 11.6	38.03N	139.30E	38				
ISC	**VII**	**05 22 09 24.5**±.50	**38.01N**±.024	**139.25E**±.038	**22**±5.6	**4.1b**,2.7s		**83**	**0-80**
JMA	VII	05 22 09 24.0±.1	37.99N±.00	139.25E±.01	14±2	3.9		**¶97vii0798**	
BJI	VII	05 22 09 24.2	37.96N	139.67E	41				
NEIC	VII	05 22 09 24.2	38.04N	139.33E	33	4.3b			
EIDC	VII	05 22 09 26.6	38.0N	139.4E	39	3.7b,3.3L			
JMA	**VII**	**05 22 30 31.3**±.6	**40.59N**±.02	**139.20E**±.05	**24**±5	**2.8**		**¶97vii0800**	
JMA	**VII**	**14 23 50 26.0**±.2	**40.68N**±.01	**139.35E**±.02	**5**±2	**2.8**		**¶97vii2221**	
ISC	**VII**	**18 08 13 02.8**±.81	**37.03N**±.033	**137.17E**±.037	**11**±6.9			**54**	**0-5**
JMA	VII	18 08 13 03.2±.0	37.00N±.00	137.19E±.01	18±3	3.4		**¶97vii2711**	
ISC	**VII**	**19 02 17 25**±1.2	**37.40N**±.060	**137.19E**±.090	**13**±12			**14**	**0-2**
JMA	VII	19 02 17 25.5±.1	37.38N±.01	137.19E±.01	15±2	3.0		**¶97vii2819**	
ISC	**VII**	**20 07 49 15**±2.0	**40.72N**±.062	**139.3E**±.18	**23**±16			**18**	**1-2**
JMA	VII	20 07 49 14.9±.3	40.71N±.01	139.24E±.03	26±4	3.4		**¶97vii3041**	
ISC	**VII**	**21 00 09 57**±6.8	**38.1N**±.20	**139.3E**±.35	**191**±62			**11**	**1-2**
JMA	VII	21 00 09 56.9±.2	38.07N±.02	139.38E±.04	190			**¶97vii3163**	
ISC	**VII**	**22 05 34 00**±4.2	**40.9N**±.10	**139.0E**±.45	**32**			**12**	**1-3**
JMA	VII	22 05 33 59.3±.3	40.90N±.01	138.97E±.03	32	2.9		**¶97vii3330**	
ISC	**VII**	**24 03 49 27**±1.0	**37.68N**±.070	**137.34E**±.083	**12**±10			**16**	**0-2**
JMA	VII	24 03 49 26.8±.2	37.68N±.01	137.35E±.01	15±3	3.2		**¶97vii3607**	
ISC	**VII**	**25 01 06 13**±5.9	**40.73N**±.092	**139.2E**±.41	**6**±25			**9**	**1-2**
JMA	VII	25 01 06 14.4±.3	40.72N±.01	139.25E±.03	20±4	3.0		**¶97vii3748**	
ISC	**VII**	**25 22 37 09**±1.4	**37.21N**±.059	**137.64E**±.069	**14**±16			**14**	**0-1**
JMA	VII	25 22 37 09.8±.0	37.21N±.00	137.63E±.00	23±2	2.8		**¶97vii3885**	
ISC	**VII**	**26 15 29 24**±1.8	**38.9N**±.11	**139.9E**±.30	**142**			**14**	**0-2**
JMA	VII	26 15 29 24.0±.3	38.88N±.01	139.86E±.02	142±3			**¶97vii3979**	
ISC	**VII**	**26 17 09 33**±1.3	**37.67N**±.060	**137.38E**±.069	**14**±11			**22**	**0-3**
JMA	VII	26 17 09 32.6±.1	37.72N±.01	137.40E±.01	20±3	3.0		**¶97vii3985**	
ISC	**VII**	**27 05 55 55**±1.2	**37.87N**±.043	**138.97E**±.054	**14**±10			**29**	**0-2**
JMA	VII	27 05 55 55.3±.1	37.86N±.01	138.97E±.01	25±2	3.2		**¶97vii4069**	
ISC	**VII**	**27 07 00 20.5**±.89	**38.22N**±.044	**139.20E**±.061	**6**±8.1			**30**	**0-2**
JMA	VII	27 07 00 21.1±.1	38.23N±.01	139.22E±.01	11±3	3.2		**¶97vii4075**	
ISC	**VII**	**27 09 18 55.4**±.86	**38.23N**±.052	**139.21E**±.067	**11**±8.7			**23**	**0-2**
JMA	VII	27 09 18 55.8±.1	38.23N±.00	139.22E±.01	11±2	3.0		**¶97vii4090**	
ISC	**VII**	**29 05 14 21**±5.1	**37.0N**±.11	**138.4E**±.71	**197**			**14**	**1-4**
JMA	VII	29 05 14 21.5±.2	37.03N±.01	138.45E±.03	197±2			**¶97vii4385**	
ISC	**VII**	**29 22 03 20.4**±.90	**38.78N**±.060	**139.4E**±.13	**228**±12			**49**	**0-7**
JMA	VII	29 22 03 23.0±.1	38.80N±.01	139.35E±.02	196±2			**¶97vii4489**	
ISC	**VII**	**30 22 46 12**±2.8	**40.77N**±.092	**139.4E**±.33	**34**			**7**	**1-2**
JMA	VII	30 22 46 12.0±.2	40.77N±.01	139.44E±.02	34±3	3.1		**¶97vii4644**	
ISC	**VIII**	**01 07 18 53.5**±.83	**37.72N**±.066	**138.65E**±.089	**22**			**11**	**0-1**
JMA	VIII	01 07 18 53.6±.1	37.70N±.00	138.66E±.01	22±2	2.8		**¶97viii0037**	
ISC	**VIII**	**02 01 53 12.8**±.78	**38.24N**±.042	**138.55E**±.051	**15**±7.9	**3.7b**		**44**	**0-78**
JMA	VIII	02 01 53 13.1±.1	38.20N±.01	138.58E±.01	23±2	3.6		**¶97viii0152**	
NEIC	VIII	02 01 53 14.0	38.17N	138.60E	33				
EIDC	VIII	02 01 53 17.9	38.0N	138.6E	44	3.4b,3.5L			
NEIC	Less reliable solution.								
ISC	**VIII**	**02 13 19 45**±1.6	**37.02N**±.081	**136.9E**±.24	**282**			**25**	**1-9**
JMA	VIII	02 13 19 47.9±.3	36.79N±.02	137.42E±.05	282			**¶97viii0216**	
ISC	**VIII**	**02 19 14 28**±1.7	**40.73N**±.043	**139.2E**±.14	**25**±14			**26**	**1-4**
JMA	VIII	02 19 14 27.1±.2	40.73N±.01	139.14E±.02	37±4	3.1		**¶97viii0250**	
ISC	**VIII**	**05 03 51 27**±6.9	**40.5N**±.24	**139.8E**±.81	**219**±64			**16**	**1-5**
JMA	VIII	05 03 51 29.1±.3	40.50N±.02	140.06E±.05	209			**¶97viii0614**	
ISC	**VIII**	**07 05 41 25**±7.8	**40.4N**±.14	**139.3E**±.79	**29**±15			**9**	**1-2**
JMA	VIII	07 05 41 22.9±.2	40.41N±.01	139.17E±.02	41±3	2.9		**¶97viii0888**	
ISC	**VIII**	**07 10 39 34**±3.0	**39.95N**±.081	**139.5E**±.22	**13**±12			**15**	**0-2**
JMA	VIII	07 10 39 34.3±.2	39.93N±.01	139.44E±.02	18±3	2.9		**¶97viii0929**	
ISC	**VIII**	**10 02 39 10.5**±.53	**37.08N**±.045	**138.21E**±.065	**21**			**22**	**0-2**
JMA	VIII	10 02 39 10.5±.1	37.08N±.01	138.23E±.01	21±2	2.9		**¶97viii1341**	
ISC	**VIII**	**13 01 48 58**±1.9	**40.12N**±.086	**139.5E**±.28	**223**±15			**30**	**0-6**
JMA	VIII	13 01 48 59.2±.2	40.13N±.01	139.57E±.03	209±3			**¶97viii1838**	
ISC	**VIII**	**19 04 28 38**±1.2	**39.35N**±.049	**139.79E**±.093	**9**±9.8			**17**	**1-2**
JMA	VIII	19 04 28 38.2±.1	39.35N±.00	139.78E±.01	16±2	2.8		**¶97viii2763**	
ISC	**VIII**	**26 19 00 40**±2.5	**38.2N**±.13	**138.2E**±.14	**11**±12			**15**	**0-2**
JMA	VIII	26 19 00 40.1±.2	38.20N±.01	138.15E±.01	12±2	2.8		**¶97viii3889**	
ISC	**VIII**	**28 12 02 53.1**±.47	**36.21N**±.041	**136.21E**±.046	**10**			**37**	**0-3**
JMA	VIII	28 12 02 53.0±.1	36.21N±.01	136.21E±.01	10±2	2.9		**¶97viii4126**	
JMA	Felt I=II J1								
ISC	**VIII**	**28 19 26 27**±4.0	**39.6N**±.22	**139.8E**±.62	**180**			**10**	**1-2**
JMA	VIII	28 19 26 27.6±.3	39.54N±.02	139.90E±.04	180±3			**¶97viii4177**	
ISC	**IX**	**03 04 55 02**±1.6	**37.00N**±.087	**136.9E**±.17	**307**±17			**40**	**1-9**
JMA	IX	03 04 55 06.1±.5	36.95N±.02	137.17E±.03	273±4			**¶97ix0381**	
ISC	**IX**	**05 12 02 35.9**±.95	**37.72N**±.039	**137.43E**±.054	**4**±8.4			**42**	**0-4**
JMA	IX	05 12 02 36.4±.1	37.72N±.01	137.37E±.01	23±3	3.2		**¶97ix0743**	
ISC	**IX**	**06 02 12 21**±5.4	**40.75N**±.065	**139.4E**±.23	**15**±43			**14**	**0-3**
JMA	IX	06 02 12 20.9±.3	40.77N±.01	139.38E±.03	15±4	3.1		**¶97ix0840**	
ISC	**IX**	**16 02 37 13**±1.7	**39.58N**±.069	**139.8E**±.24	**200**±15			**28**	**1-6**
JMA	IX	16 02 37 14.7±.2	39.58N±.01	139.84E±.03	183±3			**¶97ix2317**	
ISC	**IX**	**18 04 24 06**±3.2	**37.5N**±.14	**138.9E**±.21	**179**±36			**15**	**0-3**
JMA	IX	18 04 24 05.9±.3	37.44N±.02	138.93E±.02	178±3			**¶97ix2616**	
ISC	**IX**	**18 19 17 09**±2.4	**40.80N**±.057	**139.5E**±.17	**9**±16			**13**	**0-2**
JMA	IX	18 19 17 09.2±.2	40.79N±.01	139.48E±.02	18±3	3.1		**¶97ix2701**	
ISC	**IX**	**23 00 08 10**±1.6	**37.44N**±.070	**139.0E**±.11	**182**±18			**30**	**0-3**
JMA	IX	23 00 08 10.1±.2	37.45N±.01	138.93E±.01	181±2			**¶97ix3340**	
ISC	**IX**	**27 07 30 46.0**±.54	**37.70N**±.043	**137.36E**±.057	**15**			**34**	**0-4**
JMA	IX	27 07 30 45.6±.1	37.70N±.01	137.35E±.01	15±3	3.3		**¶97ix4289**	
ISC	**IX**	**28 13 02 16**±1.4	**39.10N**±.045	**139.49E**±.080	**9**±11			**28**	**1-3**
JMA	IX	28 13 02 16.8±.1	39.08N±.00	139.51E±.01	18±1	3.3		**¶97ix4654**	
ISC	**X**	**02 12 06 38.7**±.64	**37.76N**±.049	**138.81E**±.079	**24**±7.0	**3.8b**		**26**	**0-73**
EIDC	X	02 12 06 38.3	39.7N	143.3E	0	3.8b,4.3L		**¶97x0277**	
JMA	X	02 12 06 39.0±.0	37.75N±.00	138.83E±.01	20±1	3.9			
BJI	X	02 12 06 39.6	39.64N	143.00E	15	4.2b,3.8s			
NEIC	X	02 12 06 41.1	39.68N	143.30E	33				
JMA	Felt I=II J1								
JMA	Nodal plane solution: N51, Score 98%. NP1:φS56°,δ34°,λ107°. NP2:φS217°,δ58°,λ80°. Principle axes: T Plg75°,Azm98°; N Plg9°,Azm223°; P Plg12°,Azm315°.								
NEIC	Single network solution.								
ISC	**X**	**03 23 02 52**±1.3	**38.3N**±.10	**138.9E**±.11	**10**±13			**9**	**0-2**
JMA	X	03 23 02 53.0±.1	38.28N±.01	138.84E±.01	18±3	3.2		**¶97x0543**	
ISC	**X**	**05 09 11 02**±1.1	**39.24N**±.066	**139.6E**±.13	**21**±14			**9**	**1-3**
JMA	X	05 09 11 02.2±.0	39.24N±.00	139.60E±.01	18±1	3.7		**¶97x0843**	
ISC	**X**	**07 09 36 47**±3.3	**40.5N**±.10	**139.1E**±.30	**3**			**6**	**1-2**
JMA	X	07 09 36 47.5±.2	40.46N±.01	139.05E±.02	3±2	2.9		**¶97x1220**	
ISC	**X**	**09 10 10 44**±6.0	**38.7N**±.12	**139.8E**±.37	**156**±55			**12**	**0-2**
JMA	X	09 10 10 44.1±.2	38.74N±.01	139.88E±.02	158±3			**¶97x1569**	
ISC	**X**	**09 15 00 15**±3.0	**37.54N**±.095	**138.3E**±.13	**234**±29			**23**	**0-3**
JMA	X	09 15 00 16.0±.1	37.55N±.01	138.34E±.01	221±2			**¶97x1597**	
ISC	**X**	**10 16 50 49**±7.1	**40.1N**±.21	**139.2E**±.54	**21**±28			**7**	**0-2**
JMA	X	10 16 50 48.1±.2	40.13N±.01	139.17E±.02	22±3	3.6		**¶97x1774**	
ISC	**X**	**10 18 25 37**±6.3	**37.4N**±.22	**138.8E**±.28	**178**±56			**11**	**0-2**
JMA	X	10 18 25 36.5±.4	37.34N±.02	138.78E±.02	188±3			**¶97x1786**	
JMA	**X**	**12 08 52 59.7**±.1	**39.97N**±.01	**139.76E**±.04	**224**±3			**¶97x2016**	
ISC	**X**	**14 23 23 21**±1.2	**37.71N**±.081	**137.4E**±.11	**13**±14			**8**	**0-1**
JMA	X	14 23 23 21.0±.1	37.71N±.01	137.40E±.01	14±3	3.4		**¶97x2511**	
ISC	**X**	**17 13 31 57.7**±.82	**38.94N**±.064	**139.92E**±.087	**15**			**9**	**0-3**
JMA	X	17 13 31 57.7±.0	38.93N±.00	139.89E±.00	15±1	3.5		**¶97x2996**	
JMA	Felt I=II J1								
ISC	**X**	**17 13 33 25**±1.3	**38.92N**±.070	**139.90E**±.095	**12**±13			**8**	**0-1**
JMA	X	17 13 33 25.5±.0	38.92N±.00	139.91E±.00	11±1	3.3		**¶97x2997**	
ISC	**X**	**19 13 59 00**±1.2	**37.66N**±.080	**137.4E**±.12	**12**±13			**8**	**0-1**
JMA	X	19 13 59 00.8±.1	37.66N±.01	137.39E±.01	11±3	2.8		**¶97x3356**	
ISC	**X**	**21 13 46 59**±1.8	**37.7N**±.14	**137.3E**±.17	**6**			**4**	**0-1**
JMA	X	21 13 46 58.9±.1	37.68N±.00	137.29E±.00	6±2	2.8		**¶97x3656**	
ISC	Poorly determined								
ISC	**X**	**22 16 20 16**±3.7	**37.0N**±.12	**137.4E**±.23	**254**±34			**16**	**0-4**
JMA	X	22 16 20 16.2±.2	37.04N±.01	137.42E±.02	251±2			**¶97x3846**	
ISC	**X**	**26 09 05 37**±1.0	**36.37N**±.071	**136.60E**±.081	**0**±18			**8**	**0-1**
JMA	X	26 09 05 37.3±.0	36.37N±.00	136.59E±.01	9±2	2.8		**¶97x4439**	
ISC	**X**	**30 11 38 42.9**±.85	**37.51N**±.070	**137.80E**±.075	**19**±15			**13**	**0-1**
JMA	X	30 11 38 43.3±.0	37.50N±.00	137.80E±.00	23±1	2.8		**¶97x5032**	
ISC	**XI**	**04 10 09 09**±2.9	**39.82N**±.076	**139.9E**±.22	**166**±29			**16**	**0-3**
JMA	XI	04 10 09 09.3±.2	39.81N±.01	139.86E±.02	169±2			**¶97xi0613**	
ISC	**XI**	**05 07 19 21**±2.6	**37.7N**±.16	**137.3E**±.22	**7**			**6**	**0-1**
JMA	XI	05 07 19 21.9±.1	37.65N±.01	137.34E±.01	7±2	2.8		**¶97xi0749**	
ISC	Poorly determined								
ISC	**XI**	**06 01 50 24**±1.0	**37.80N**±.080	**138.1E**±.10	**24**±14			**8**	**0-1**
JMA	XI	06 01 50 24.4±.0	37.79N±.00	138.15E±.01	21±1	4.0		**¶97xi0904**	
ISC	**XI**	**08 20 59 44**±5.3	**38.7N**±.17	**139.1E**±.39	**202**±44			**15**	**1-2**
JMA	XI	08 20 59 42.3±.5	38.71N±.01	138.95E±.04	211±5			**¶97xi1350**	
ISC	**XI**	**09 11 28 25**±1.9	**38.1N**±.23	**139.4E**±.30	**193**			**9**	**1-2**
JMA	XI	09 11 28 25.5±.2	38.07N±.02	139.43E±.02	193±3			**¶97xi1443**	
ISC	**XI**	**09 18 32 21**±1.1	**37.64N**±.079	**137.3E**±.11	**12**±12			**7**	**0-1**
JMA	XI	09 18 32 21.3±.1	37.65N±.01	137.25E±.01	9±2	2.8		**¶97xi1488**	
ISC	**XI**	**11 02 23 00**±1.1	**37.46N**±.081	**137.2E**±.10	**11**±12			**7**	**0-1**
JMA	XI	11 02 23 00.1±.0	37.45N±.00	137.21E±.01	10±1	3.0		**¶97xi1714**	
ISC	**XI**	**11 04 15 50.6**±.92	**36.04N**±.050	**136.33E**±.083	**2**±11			**11**	**0-2**
JMA	XI	11 04 15 51.2±.0	36.05N±.00	136.34E±.00	9±1	2.9		**¶97xi1730**	
ISC	**XI**	**13 00 46 00**±1.6	**40.30N**±.084	**140.0E**±.19	**8**±21			**5**	**0-1**
JMA	XI	13 00 46 00.6±.0	40.31N±.00	139.92E±.01	10±2	3.1		**¶97xi2057**	
ISC	Poorly determined								
JMA	**XI**	**14 15 59 57.0**±.5	**37.05N**±.04	**136.26E**±.07	**343**			**¶97xi2313**	
ISC	**XI**	**16 11 51 07**±4.1	**38.5N**±.15	**139.5E**±.19	**149**±44			**11**	**0-2**
JMA	XI	16 11 51 05.8±.4	38.49N±.02	139.48E±.03	162±4			**¶97xi2643**	
ISC	**XI**	**17 06 46 35.9**±.98	**37.30N**±.057	**137.26E**±.099	**10**±12			**9**	**0-1**
JMA	XI	17 06 46 36.5±.0	37.30N±.00	137.27E±.01	12±2	2.8		**¶97xi2752**	
ISC	**XI**	**18 09 34 18**±2.0	**38.3N**±.15	**138.6E**±.15	**9**			**7**	**0-2**
JMA	XI	18 09 34 18.2±.1	38.37N±.01	138.56E±.01	9±2	2.9		**¶97xi2938**	
ISC	**XI**	**18 19 24 45**±1.5	**40.4N**±.13	**140.0E**±.35	**171**			**9**	**0-2**
JMA	XI	18 19 24 45.0±.2	40.41N±.01	140.04E±.02	171±2			**¶97xi3047**	
ISC	**XI**	**19 23 11 10**±1.5	**39.33N**±.074	**139.8E**±.18	**15**			**6**	**1-1**
JMA	XI	19 23 11 10.6±.0	39.33N±.00	139.79E±.01	15±2	3.3		**¶97xi3330**	
ISC	**XI**	**21 12 32 36**±2.5	**40.5N**±.55	**140.0E**±.69	**169**			**5**	**0-2**
JMA	XI	21 12 32 36.2±.2	40.55N±.01	140.03E±.02	169±2			**¶97xi3654**	
ISC	Poorly determined								
ISC	**XI**	**23 04 19 33**±5.9	**40.0N**±.13	**139.2E**±.58	**24**			**6**	**0-2**
JMA	XI	23 04 19 30.2±.3	40.00N±.01	138.94E±.02	24±3	2.8		**¶97xi4027**	
ISC	**XI**	**23 04 27 56**±3.6	**40.0N**±.11	**139.0E**±.36	**36**			**10**	**1-2**
JMA	XI	23 04 27 54.7±.2	39.97N±.01	138.95E±.02	36±3	3.2		**¶97xi4030**	
ISC	**XI**	**23 04 29 02**±3.3	**40.0N**±.11	**139.0E**±.33	**31**			**10**	**1-2**
JMA	XI	23 04 29 00.1±.2	39.98N±.01	138.95E±.02	31±3	3.1		**¶97xi4031**	
ISC	**XI**	**23 23 11 50**±4.5	**39.9N**±.11	**139.0E**±.42	**0**			**5**	**1-1**
JMA	XI	23 23 11 49.7±.3	39.87N±.01	138.95E±.02	0	2.8		**¶97xi4219**	
ISC	**XI**	**25 11 11 39**±1.0	**39.34N**±.061	**139.8E**±.13	**16**			**7**	**1-1**
JMA	XI	25 11 11 39.0±.0	39.34N±.00	139.78E±.00	16±1	3.1		**¶97xi4493**	
JMA	**XI**	**26 13 54 24.0**±.4	**40.46N**±.01	**139.13E**±.03	**28**±4	**3.1**		**¶97xi4695**	
ISC	**XI**	**26 14 26 28.1**±.74	**37.61N**±.075	**137.94E**±.065	**22**±12			**14**	**0-1**
JMA	XI	26 14 26 28.3±.0	37.60N±.00	137.94E±.00	26±1	3.2		**¶97xi4700**	
ISC	**XI**	**27 15 38 45**±1.1	**37.63N**±.078	**137.4E**±.11	**13**±12			**8**	**0-1**
JMA	XI	27 15 38 45.5±.1	37.63N±.01	137.35E±.01	12±2	3.0		**¶97xi4889**	
ISC	**XII**	**08 01 47 33**±1.9	**39.36N**±.081	**139.6E**±.23	**17**±33			**7**	**1-1**
JMA	XII	08 01 47 32.9±.1	39.35N±.00	139.59E±.01	18±1	3.0		**¶97xii1836**	
JMA	**XII**	**08 10 32 30.3**±.1	**38.85N**±.01	**139.03E**±.01	**21**±4	**2.9**		**¶97xii1911**	
ISC	**XII**	**08 22 26 16**±6.6	**39.9N**±.30	**139.2E**±.60	**38**			**9**	**0-2**
JMA	XII	08 22 26 12.6±.2	39.96N±.01	138.85E±.02	38±5	3.3		**¶97xii2027**	
JMA	**XII**	**09 18 43 41.8**±.2	**40.58N**±.01	**139.20E**±.02	**14**±3	**3.1**		**¶97xii2217**	
ISC	**XII**	**13 09 53 14**±1.5	**39.70N**±.069	**139.5E**±.18	**18**			**7**	**0-1**
JMA	XII	13 09 53 13.7±.0	39.70N±.00	139.53E±.01	18±1	3.3		**¶97xii2927**	
ISC	**XII**	**13 17 05 56**±1.0	**38.40N**±.092	**139.2E**±.11	**16**±15			**10**	**0-2**
JMA	XII	13 17 05 56.3±.0	38.37N±.00	139.22E±.00	15±2	2.8		**¶97xii2981**	
ISC	**XII**	**16 11 34 40.9**±.32	**40.48N**±.044	**139.81E**±.088	**187**±3.4	**4.0b**		**51**	**0-146**
EIDC	XII	16 11 34 41.2±2.27	40.5N	139.8E	176±22.2	3.7b		**¶97xii3444**	
NEIC	XII	16 11 34 41.4	40.51N	139.66E	193	4.1b			
JMA	XII	16 11 34 42.0±.1	40.50N±.00	140.02E±.01	182±1	3.9			
EIDC	Error ellipse is semi-major=24.2km semi-minor=13.0km azimuth=104								
NEIC	Less reliable solution.								
JMA	Nodal plane solution: N146, Score 98%. NP1:φS131°,δ60°,λ−32°. NP2:φS238°,δ62°,λ−146°. Principle axes: T Plg1°,Azm4°; N Plg47°,Azm273°; P Plg43°,Azm95°.								

Agency		Origin Time		ϕ	λ	h	Mag	*n*	Δ-Rng
	mo	d h m s		°	°	km			°
ISC	**XII**	**19 10 04 30.4**±.42		**37.10N**±.065	**138.4E**±.11	**204**±4.7	**3.5b**	**27**	**0-73**
NEIC	XII	19 10 04 29.5		37.18N	138.60E	200		**¶97xii3929**	
EIDC	XII	19 10 04 30.7±.84		37.2N	138.6E	190±6.3	3.4b		
JMA	XII	19 10 04 31.1±.2		37.11N±.01	138.36E±.02	198±2			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=38.0km semi−minor=13.1km azimuth=72								
ISC	**XII**	**19 13 07 55.5**±.58		**36.26N**±.041	**136.31E**±.045	**23**±4.7	**4.4b**,4.0s	**81**	**0-94**
BJI	XII	19 13 07 49.9		36.11N	136.91E	16	4.7b,4.3s	**¶97xii3969**	
NEIC	XII	19 13 07 53.4		36.25N	136.11E	16	4.6b		
MOS	XII	19 13 07 53.5		36.1N	136.3E	15	5.2b		
EIDC	XII	19 13 07 55.0±.57		36.3N	136.2E	14±3.4	4.2b,4.2L		
JMA	XII	19 13 07 55.2±.0		36.32N±.00	136.22E±.01	12±1	4.4		
NEIC	Felt I=VI MM.								
NEIC	Felt I=IV J1 in western Fukui, II J1 in Toyama and I J1 in parts of Aichi, Kyoto and Nagano Prefectures.								
EIDC	Error ellipse is semi−major=13.6km semi−minor=11.7km azimuth=92								
JMA	Nodal plane solution: N142, Score 92%. NP1:ϕ_S31°,δ23°,λ85°. NP2:ϕ_S217°,δ67°,λ93°. Principle axes: T Plg68°,Azm130°; N Plg2°,Azm36°; P Plg22°,Azm305°.								
ISC	**XII**	**20 17 44 58.7**±.44		**37.54N**±.066	**138.6E**±.13	**213**±5.5	**3.5b**	**29**	**0-73**
EIDC	XII	20 17 44 59.0±2.68		37.5N	138.9E	206±19.9	3.4b	**¶97xii4142**	
JMA	XII	20 17 44 59.5±.2		37.57N±.01	138.53E±.01	203±2			
EIDC	Error ellipse is semi−major=88.2km semi−minor=15.9km azimuth=68								
ISC	**XII**	**21 18 06 14**±7.5		**40.0N**±.15	**139.0E**±.78	**33**		**5**	**1-1**
JMA	XII	21 18 06 11.9±.3		40.00N±.01	138.85E±.03	33	3.3	**¶97xii4287**	
ISC	**XII**	**22 05 04 55**±2.6		**37.1N**±.13	**137.3E**±.14	**261**±27		**16**	**0-4**
JMA	XII	22 05 04 55.5±.2		37.03N±.01	137.35E±.02	261±2		**¶97xii4355**	
JMA	**XII**	**22 16 00 45.2**±.5		**37.22N**±.03	**136.18E**±.07	**449**		**¶97xii4445**	
ISC	**XII**	**22 21 05 50**±1.6		**39.66N**±.077	**139.8E**±.22	**14**±19		**6**	**0-1**
JMA	XII	22 21 05 50.1±.0		39.66N±.00	139.79E±.00	16±1	2.8	**¶97xii4487**	
ISC	**XII**	**23 11 08 02**±1.4		**40.92N**±.051	**139.43E**±.091	**27**±13	**3.7b**	**22**	**1-76**
EIDC	XII	23 11 07 59.5±.78		40.9N	139.7E	0	3.7b,3.9L	**¶97xii4588**	
JMA	XII	23 11 08 00.8±.0		40.96N±.00	139.32E±.01	39±1	4.3		
NEIC	XII	23 11 08 02.2		40.84N	139.53E	33	3.5b		
EIDC	Error ellipse is semi−major=25.8km semi−minor=16.6km azimuth=105								
JMA	Felt I=II J1								
ISC	**XII**	**24 14 35 27**±1.9		**39.4N**±.21	**139.9E**±.29	**166**		**10**	**1-2**
JMA	XII	24 14 35 27.3±.3		39.40N±.02	139.97E±.03	166±4		**¶97xii4773**	
ISC	**XII**	**25 18 43 18.3**±.53		**37.20N**±.092	**137.2E**±.12	**263**±8.0	4.0b	**21**	**0-46**
JMA	XII	25 18 43 18.4±.3		37.21N±.02	137.15E±.02	263±3		**¶97xii4972**	
ISC	**XII**	**26 09 50 31**±1.3		**37.35N**±.055	**138.02E**±.059	**15**±13		**13**	**0-1**
JMA	XII	26 09 50 31.5±.0		37.35N±.00	138.02E±.00	17±2	3.0	**¶97xii5097**	
ISC	**XII**	**27 08 15 18**±3.9		**40.5N**±.11	**139.7E**±.31	**207**±36		**13**	**0-3**
JMA	XII	27 08 15 20.0±.1		40.48N±.00	139.78E±.02	193±2		**¶97xii5270**	
ISC	**XII**	**27 17 22 31**±7.0		**40.4N**±.21	**139.4E**±.64	**23**		**7**	**0-2**
JMA	XII	27 17 22 28.0±.3		40.52N±.01	139.18E±.03	23±3	2.8	**¶97xii5323**	
ISC	**XII**	**28 14 17 47**±4.2		**38.1N**±.12	**139.8E**±.16	**148**±50		**11**	**1-2**
JMA	XII	28 14 17 47.9±.3		38.10N±.01	139.91E±.02	142±4		**¶97xii5460**	
ISC	**XII**	**29 14 59 12**±2.5		**36.3N**±.81	**136.9E**±.80	**279**		**4**	**1-3**
JMA	XII	29 14 59 12.0±.4		36.18N±.05	137.06E±.03	279±4		**¶97xii5600**	
ISC	Poorly determined								

(227) Honshū.

ISC	**VII**	**01 09 00 17.4**±.23		**36.05N**±.021	**139.92E**±.033	**60**±3.9	**3.8b**	**118**	**0-148**
NEIC	VII	01 09 00 16.1		36.08N	139.84E	46		**¶97vii0053**	
JMA	VII	01 09 00 17.5±.1		36.07N±.01	139.87E±.01	53±2	3.9		
EIDC	VII	01 09 00 17.6		36.1N	139.9E	42	3.7b,3.3L		
NEIC	Less reliable solution.								
JMA	Felt I=III J1								
ISC	**VII**	**01 12 21 36**±5.0		**39.4N**±.18	**140.6E**±.26	**152**±46		**15**	**0-2**
JMA	VII	01 12 21 36.3±.2		39.37N±.01	140.55E±.02	147±2		**¶97vii0085**	
ISC	**VII**	**01 17 34 19**±6.9		**38.9N**±.17	**140.3E**±.35	**130**±58		**12**	**0-2**
JMA	VII	01 17 34 20.4±.4		38.92N±.02	140.41E±.03	118±3		**¶97vii0119**	
ISC	**VII**	**01 18 40 50**±4.6		**37.1N**±.17	**140.4E**±.19	**82**±45		**14**	**0-2**
JMA	VII	01 18 40 50.0±.2		37.06N±.01	140.45E±.01	81±2		**¶97vii0130**	
ISC	**VII**	**01 19 22 25**±1.8		**39.3N**±.16	**140.3E**±.35	**157**		**10**	**0-1**
JMA	VII	01 19 22 25.5±.2		39.30N±.01	140.39E±.02	157±2		**¶97vii0133**	
ISC	**VII**	**01 21 40 17**±1.0		**38.5N**±.16	**140.7E**±.25	**101**		**6**	**0-1**
JMA	VII	01 21 40 16.8±.3		38.53N±.01	140.74E±.02	101±3		**¶97vii0143**	
ISC	**VII**	**02 19 53 55**±3.9		**38.7N**±.10	**140.5E**±.25	**155**±39		**17**	**0-2**
JMA	VII	02 19 53 56.4±.2		38.68N±.01	140.60E±.03	146±2		**¶97vii0294**	
ISC	**VII**	**02 23 03 43**±2.2		**36.17N**±.083	**139.4E**±.11	**78**±29		**15**	**0-2**
JMA	VII	02 23 03 43.8±.2		36.15N±.01	139.38E±.01	74±2		**¶97vii0316**	
ISC	**VII**	**02 23 14 34**±5.0		**36.1N**±.19	**139.7E**±.22	**91**±53		**7**	**0-1**
JMA	VII	02 23 14 34.8±.3		36.09N±.02	139.70E±.02	83±3		**¶97vii0318**	
ISC	**VII**	**03 08 06 01.2**±.74		**38.28N**±.030	**140.27E**±.047	**4**±6.6	3.5b	**40**	**0-62**
JMA	VII	03 08 06 01.7±.0		38.26N±.00	140.25E±.00	13±1	3.5	**¶97vii0375**	
NEIC	VII	03 08 06 04.4		37.75N	140.61E	10			
EIDC	VII	03 08 06 07.2		37.5N	140.5E	0	3.4b,3.5L		
NEIC	Poor solution.								
JMA	**VII**	**03 08 06 08.8**±.0		**38.27N**±.00	**140.24E**±.01	**13**±1	**3.8**	**¶97vii0376**	
ISC	**VII**	**03 10 25 15**±1.9		**39.1N**±.18	**140.3E**±.36	**136**		**9**	**0-2**
JMA	VII	03 10 25 14.9±.3		39.09N±.01	140.33E±.03	136±3		**¶97vii0393**	
ISC	**VII**	**03 11 30 16.0**±.42		**36.00N**±.036	**137.60E**±.043	**11**		**25**	**0-2**
JMA	VII	03 11 30 15.8±.0		36.00N±.00	137.59E±.00	11±1	2.8	**¶97vii0404**	
ISC	**VII**	**03 13 06 41**±5.6		**39.5N**±.13	**141.4E**±.23	**72**±55		**8**	**0-1**
JMA	VII	03 13 06 41.1±.3		39.47N±.01	141.39E±.02	72±3		**¶97vii0413**	
ISC	**VII**	**03 15 26 42.5**±.68		**38.26N**±.035	**140.24E**±.046	**7**±6.8		**28**	**0-2**
JMA	VII	03 15 26 42.9±.0		38.27N±.00	140.24E±.00	13±2	3.0	**¶97vii0424**	
ISC	**VII**	**03 20 39 01**±1.1		**39.2N**±.13	**141.0E**±.25	**93**		**7**	**0-1**
JMA	VII	03 20 39 00.8±.1		39.18N±.00	140.97E±.01	93±1		**¶97vii0449**	
ISC	**VII**	**04 01 28 44**±1.2		**36.7N**±.12	**139.3E**±.12	**10**		**5**	**0-1**
JMA	VII	04 01 28 44.3±.0		36.65N±.01	139.34E±.00	10±1	2.8	**¶97vii0478**	
ISC	Poorly determined								
ISC	**VII**	**04 10 54 09.7**±.93		**40.49N**±.030	**140.89E**±.065	**2**±9.1		**27**	**0-5**
JMA	VII	04 10 54 10.3±.0		40.49N±.00	140.89E±.01	12±2	2.9	**¶97vii0543**	
ISC	**VII**	**04 15 46 53**±4.0		**39.6N**±.10	**141.2E**±.16	**96**±39		**13**	**0-2**
JMA	VII	04 15 46 53.3±.1		39.56N±.01	141.18E±.01	91±1		**¶97vii0587**	
ISC	**VII**	**05 00 54 33.1**±.37		**37.23N**±.033	**139.92E**±.043	**12**		**33**	**0-3**
JMA	VII	05 00 54 32.4±.0		37.26N±.00	139.91E±.00	12±2	3.3	**¶97vii0648**	
ISC	**VII**	**05 00 56 18.2**±.43		**37.23N**±.038	**139.91E**±.049	**12**		**27**	**0-3**
JMA	VII	05 00 56 17.7±.0		37.26N±.00	139.90E±.00	12±2	3.0	**¶97vii0649**	
ISC	**VII**	**05 02 40 45**±5.8		**39.5N**±.14	**141.2E**±.24	**96**±52		**9**	**0-1**
JMA	VII	05 02 40 45.7±.1		39.47N±.00	141.15E±.01	93±1		**¶97vii0664**	
ISC	**VII**	**05 14 25 19**±4.4		**39.5N**±.14	**141.3E**±.21	**135**±42		**15**	**0-2**
JMA	VII	05 14 25 20.6±.2		39.52N±.01	141.23E±.02	126±2		**¶97vii0741**	
ISC	**VII**	**05 19 29 56.9**±.64		**37.99N**±.034	**139.22E**±.043	**4**±6.0		**43**	**0-3**
JMA	VII	05 19 29 57.6±.0		37.98N±.00	139.24E±.01	11±2	3.4	**¶97vii0776**	
ISC	**VII**	**05 19 33 00.3**±.66		**37.96N**±.030	**139.23E**±.046	**1**±6.3		**39**	**0-3**
JMA	VII	05 19 33 01.0±.1		37.98N±.00	139.25E±.01	11±2	3.2	**¶97vii0777**	
ISC	**VII**	**05 19 33 29.5**±.67		**37.97N**±.040	**139.25E**±.052	**2**±7.5		**42**	**0-3**
JMA	VII	05 19 33 30.1±.1		37.97N±.00	139.25E±.01	10±2	3.4	**¶97vii0778**	
ISC	**VII**	**05 20 48 23.1**±.67		**37.97N**±.035	**139.24E**±.050	**2**±6.8		**31**	**0-2**
JMA	VII	05 20 48 23.7±.1		37.98N±.00	139.25E±.01	11±2	3.1	**¶97vii0787**	
ISC	**VII**	**05 20 54 07.1**±.82		**37.98N**±.038	**139.24E**±.055	**9**±7.8		**27**	**0-2**
JMA	VII	05 20 54 07.4±.1		37.98N±.00	139.25E±.01	12±2	2.9	**¶97vii0790**	
ISC	**VII**	**05 20 56 48.4**±.82		**38.00N**±.041	**139.23E**±.051	**8**±6.9		**31**	**0-2**
JMA	VII	05 20 56 49.0±.1		37.99N±.00	139.25E±.01	13±2	3.3	**¶97vii0792**	
ISC	**VII**	**06 07 13 03**±1.3		**39.2N**±.16	**140.9E**±.29	**104**		**7**	**0-1**
JMA	VII	06 07 13 03.2±.2		39.18N±.01	140.88E±.02	104±2		**¶97vii0853**	
ISC	**VII**	**06 14 28 17.3**±.35		**37.24N**±.031	**139.93E**±.043	**11**		**35**	**0-3**
JMA	VII	06 14 28 16.8±.1		37.24N±.01	139.92E±.01	11±3	2.9	**¶97vii0892**	
ISC	**VII**	**06 15 55 14**±5.0		**38.6N**±.11	**140.4E**±.33	**120**±51		**9**	**0-1**
JMA	VII	06 15 55 14.1±.0		38.57N±.00	140.41E±.01	116±1		**¶97vii0902**	
ISC	**VII**	**06 16 44 50**±1.5		**38.0N**±.16	**140.8E**±.71	**119**		**7**	**0-2**
JMA	VII	06 16 44 50.3±.2		38.01N±.01	140.78E±.04	119±2		**¶97vii0907**	
ISC	**VII**	**06 19 25 00**±3.5		**39.1N**±.10	**141.8E**±.23	**63**±35		**9**	**0-1**
JMA	VII	06 19 24 59.9±.1		39.14N±.00	141.76E±.01	61±1		**¶97vii0923**	
ISC	**VII**	**06 20 02 08.3**±.69		**37.95N**±.033	**139.24E**±.053	**0**±7.0		**32**	**0-3**
JMA	VII	06 20 02 08.9±.1		37.97N±.00	139.24E±.01	12±2	3.0	**¶97vii0928**	
JMA	**VII**	**07 00 47 33.7**±.2		**37.57N**±.01	**139.77E**±.06	**154**±4		**¶97vii0960**	
ISC	**VII**	**07 16 11 20**±2.4		**39.29N**±.091	**141.5E**±.19	**74**±27		**12**	**0-2**
JMA	VII	07 16 11 19.8±.1		39.29N±.00	141.47E±.01	72±1		**¶97vii1064**	
ISC	**VII**	**07 16 58 50**±1.8		**39.4N**±.20	**140.0E**±.32	**167**		**12**	**0-1**
JMA	VII	07 16 58 50.4±.3		39.46N±.02	140.06E±.03	167±4		**¶97vii1065**	
ISC	**VII**	**07 17 08 57**±6.6		**39.5N**±.11	**142.0E**±.44	**104**±53		**11**	**0-2**
JMA	VII	07 17 08 59.0±.2		39.44N±.01	141.93E±.02	91±2		**¶97vii1067**	
ISC	**VII**	**07 17 15 58.3**±.50		**35.32N**±.024	**138.95E**±.027	**8**±4.9		**69**	**0-5**
JMA	VII	07 17 15 58.7±.0		35.34N±.00	138.92E±.00	7±2	3.1	**¶97vii1069**	
ISC	**VII**	**08 00 37 51.5**±.84		**37.98N**±.048	**139.23E**±.058	**7**±7.4		**26**	**0-2**
JMA	VII	08 00 37 52.1±.1		37.97N±.00	139.24E±.01	12±2	2.9	**¶97vii1109**	
ISC	**VII**	**08 05 10 21**±1.4		**39.6N**±.20	**140.7E**±.26	**123**		**8**	**0-1**
JMA	VII	08 05 10 20.4±.3		39.60N±.02	140.63E±.02	123±3		**¶97vii1141**	
ISC	**VII**	**08 11 59 20.1**±.62		**36.56N**±.037	**139.39E**±.048	**5**±7.1		**21**	**0-2**
JMA	VII	08 11 59 20.5±.0		36.56N±.00	139.38E±.01	10±2	2.8	**¶97vii1182**	
ISC	**VII**	**08 14 41 02.6**±.62		**35.26N**±.035	**137.74E**±.046	**9**±6.5		**26**	**0-3**
JMA	VII	08 14 41 03.0±.1		35.26N±.00	137.73E±.01	15±2	3.1	**¶97vii1203**	
ISC	**VII**	**08 16 00 31**±1.4		**39.6N**±.12	**142.0E**±.26	**93**		**9**	**0-1**
JMA	VII	08 16 00 31.0±.3		39.58N±.01	141.97E±.03	93±2		**¶97vii1208**	
ISC	**VII**	**08 22 51 12**±1.2		**38.19N**±.055	**140.9E**±.13	**82**±17		**18**	**0-2**
JMA	VII	08 22 51 11.8±.1		38.18N±.00	140.85E±.01	88±1		**¶97vii1246**	
ISC	**VII**	**09 01 31 46.6**±.59		**38.83N**±.032	**140.66E**±.049	**1**±7.0		**28**	**0-3**
JMA	VII	09 01 31 47.2±.0		38.82N±.00	140.65E±.00	11±1	3.2	**¶97vii1268**	
ISC	**VII**	**09 01 32 55.6**±.41		**38.82N**±.033	**140.67E**±.050	**9**		**25**	**0-2**
JMA	VII	09 01 32 55.5±.0		38.82N±.00	140.65E±.00	9±2	2.8	**¶97vii1269**	
ISC	**VII**	**09 10 29 46**±4.8		**39.4N**±.11	**141.2E**±.21	**90**±44		**9**	**0-1**
JMA	VII	09 10 29 46.2±.1		39.41N±.01	141.23E±.01	90±1		**¶97vii1320**	
ISC	**VII**	**09 11 08 01.7**±.41		**36.02N**±.033	**139.95E**±.054	**37**±28		**42**	**0-5**
JMA	VII	09 11 08 01.2±.1		36.03N±.01	139.93E±.02	46±3	3.2	**¶97vii1324**	
ISC	**VII**	**09 11 16 06**±1.7		**36.0N**±.12	**140.0E**±.13	**23**±14		**10**	**1-2**
JMA	VII	09 11 16 06.5±.2		36.02N±.01	139.94E±.02	41±2	2.8	**¶97vii1326**	
ISC	**VII**	**09 22 21 55**±4.4		**37.8N**±.16	**139.3E**±.28	**182**±45		**15**	**0-3**
JMA	VII	09 22 21 55.2±.4		37.74N±.02	139.39E±.04	180±4		**¶97vii1403**	
ISC	**VII**	**09 22 24 48.4**±.78		**36.09N**±.031	**139.90E**±.048	**31**±9.0		**40**	**0-4**
JMA	VII	09 22 24 48.2±.1		36.08N±.01	139.86E±.01	48±2	3.2	**¶97vii1404**	
ISC	**VII**	**10 04 01 52**±1.4		**36.95N**±.080	**139.6E**±.14	**160**±17		**25**	**0-3**
JMA	VII	10 04 01 53.0±.2		36.92N±.01	139.64E±.02	147±2		**¶97vii1443**	
ISC	**VII**	**10 04 58 38.7**±.61		**38.91N**±.033	**140.63E**±.049	**2**±7.3		**26**	**0-3**
JMA	VII	10 04 58 39.3±.0		38.90N±.00	140.61E±.00	9±2	2.9	**¶97vii1453**	
ISC	**VII**	**11 16 23 54.2**±.51		**39.31N**±.037	**141.13E**±.091	**156**±7.5	3.1b	**54**	**0-48**
NEIC	VII	11 16 23 55.1		39.31N	140.73E	153		**¶97vii1705**	
JMA	VII	11 16 23 56.2±.2		39.31N±.01	140.98E±.01	137±2	3.3		
EIDC	VII	11 16 23 57.6		39.4N	140.4E	147	2.9b		
NEIC	Poor solution.								
ISC	**VII**	**11 23 11 55**±3.5		**39.0N**±.10	**141.0E**±.15	**101**±37		**12**	**0-1**
JMA	VII	11 23 11 55.9±.2		39.03N±.01	141.04E±.02	94±3		**¶97vii1740**	
ISC	**VII**	**12 01 09 15**±6.1		**39.0N**±.14	**141.6E**±.28	**113**±54		**12**	**0-2**
JMA	VII	12 01 09 15.8±.3		39.03N±.01	141.53E±.02	102±2		**¶97vii1752**	
ISC	**VII**	**12 11 10 21**±1.7		**39.3N**±.15	**140.6E**±.32	**118**		**9**	**0-1**
JMA	VII	12 11 10 20.7±.3		39.27N±.01	140.60E±.03	118±3		**¶97vii1805**	
ISC	**VII**	**12 12 39 24.5**±.63		**36.60N**±.031	**139.40E**±.045	**1**±6.5		**31**	**0-2**
JMA	VII	12 12 39 24.8±.0		36.59N±.00	139.39E±.01	10±2	2.8	**¶97vii1816**	
JMA	**VII**	**12 18 04 54.7**±.5		**36.08N**±.03	**139.80E**±.03	**108**±4		**¶97vii1849**	
ISC	**VII**	**12 18 49 38**±1.5		**37.11N**±.079	**140.7E**±.15	**111**±18		**18**	**0-3**
JMA	VII	12 18 49 38.6±.2		37.10N±.01	140.71E±.02	101±2		**¶97vii1855**	
ISC	**VII**	**12 18 54 54**±1.8		**37.95N**±.086	**140.8E**±.30	**87**±22		**14**	**0-2**
JMA	VII	12 18 54 54.0±.1		37.94N±.01	140.81E±.02	91±1		**¶97vii1857**	
ISC	**VII**	**12 23 50 30**±2.8		**37.4N**±.16	**140.8E**±.33	**77**±30		**10**	**0-2**
JMA	VII	12 23 50 30.2±.2		37.36N±.01	140.80E±.03	75±3		**¶97vii1890**	
JMA	**VII**	**13 16 24 38.0**±.4		**36.09N**±.02	**139.79E**±.02	**110**±3		**¶97vii1995**	
ISC	**VII**	**13 17 21 14**±1.2		**37.28N**±.067	**139.3E**±.11	**150**±16		**27**	**0-3**
JMA	VII	13 17 21 14.1±.3		37.26N±.01	139.27E±.01	148±3		**¶97vii2000**	
ISC	**VII**	**13 17 28 57**±4.5		**39.4N**±.11	**141.3E**±.20	**83**±43		**9**	**0-1**
JMA	VII	13 17 28 57.0±.1		39.42N±.00	141.26E±.01	79±1		**¶97vii2001**	
ISC	**VII**	**14 10 00 51**±2.5		**38.98N**±.081	**140.3E**±.22	**152**±25		**20**	**0-5**
JMA	VII	14 10 00 50.0±.3		39.05N±.01	140.27E±.03	163±3		**¶97vii2100**	
ISC	**VII**	**14 11 41 43**±1.4		**36.3N**±.22	**140.0E**±.21	**85**		**5**	**0-1**
JMA	VII	14 11 41 42.7±.3		36.25N±.01	139.94E±.02	85±3		**¶97vii2119**	
JMA	**VII**	**14 23 21 22.1**±.2		**39.75N**±.01	**141.63E**±.01	**63**±2		**¶97vii2218**	
ISC	**VII**	**15 16 40 29**±2.2		**35.9N**±.13	**138.3E**±.16	**201**±23		**21**	**0-5**
JMA	VII	15 16 40 29.8±.3		35.92N±.02	138.36E±.02	191±3		**¶97vii2322**	
JMA	**VII**	**16 00 39 37.6**±.2		**36.16N**±.02	**139.77E**±.06	**101**		**¶97vii2372**	
ISC	**VII**	**16 07 12 43**±2.7		**37.0N**±.16	**140.9E**±.24	**108**±23		**13**	**0-3**
JMA	VII	16 07 12 43.9±.3		37.03N±.02	140.85E±.03	97±3		**¶97vii2399**	
ISC	**VII**	**16 23 44 59.4**±.70		**37.00N**±.039	**139.50E**±.044	**7**±7.7		**23**	**0-2**
JMA	VII	16 23 44 59.6±.1		37.00N±.01	139.51E±.01	7±2	3.0	**¶97vii2518**	
ISC	**VII**	**17 02 30 04**±2.5		**39.40N**±.082	**141.4E**±.18	**78**±27		**11**	**0-2**
JMA	VII	17 02 30 03.9±.0		39.40N±.00	141.40E±.01	78±1		**¶97vii2532**	
ISC	**VII**	**17 21 12 17**±4.4		**40.0N**±.54	**140.3E**±.54	**153**		**7**	**1-2**
JMA	VII	17 21 12 17.5±.4		39.95N±.03	140.31E±.04	153±4		**¶97vii2644**	
ISC	**VII**	**18 04 55 34.7**±.78		**39.5N**±.14	**141.3E**±.28	**117**		**9**	**0-1**
JMA	VII	18 04 55 34.7±.2		39.54N±.01	141.27E±.02	117±2		**¶97vii2694**	
ISC	**VII**	**19 01 17 06.5**±.36		**35.87N**±.033	**137.59E**±.036	**12**		**40**	**0-3**
JMA	VII	19 01 17 05.9±.0		35.87N±.00	137.56E±.00	12±2	2.9	**¶97vii2813**	
ISC	**VII**	**19 01 46 11**±1.5		**36.08N**±.097	**139.9E**±.13	**42**±59		**11**	**1-2**
JMA	VII	19 01 46 10.0±.1		36.07N±.01	139.90E±.01	50±2	2.8	**¶97vii2816**	
ISC	**VII**	**19 23 11 58**±1.1		**39.85N**±.043	**141.7E**±.15	**69**±12		**21**	**0-3**
JMA	VII	19 23 11 58.5±.1		39.84N±.00	141.72E±.01	69±1		**¶97vii2970**	

ISC	**VII**	**20 12 12 02.5**±.67	**38.48N**±.033	**140.77E**±.053	**5**±6.9			**26**	**0-2**	**ISC**	**VIII**	**03 12 04 43**±1.5	**39.16N**±.058	**140.7E**±.10	**104**±18			**23**	**0-3**
JMA	VII	20 12 12 02.9±.0	38.47N±.00	140.76E±.00	13±1	2.9		¶97vii3089		JMA	VIII	03 12 04 42.9±.1	39.15N±.01	140.75E±.01	106±2			¶97viii0361	
ISC	**VII**	**21 03 35 15**±1.5	**39.58N**±.056	**141.2E**±.12	**92**±17			**21**	**0-4**	**ISC**	**VIII**	**03 23 17 54.0**±.93	**40.71N**±.037	**140.50E**±.078	**8**±9.0			**18**	**0-2**
JMA	VII	21 03 35 15.2±.1	39.57N±.01	141.17E±.01	92±2			¶97vii3183		JMA	VIII	03 23 17 54.4±.0	40.71N±.00	140.48E±.00	15±1	3.1		¶97viii0427	
ISC	**VII**	**21 15 39 09.6**±.62	**38.18N**±.029	**140.15E**±.044	**8**±5.8			**33**	**0-2**	**ISC**	**VIII**	**04 01 52 38**±2.4	**39.0N**±.17	**140.4E**±.39	**132**			**8**	**0-1**
JMA	VII	21 15 39 09.9±.0	38.17N±.00	140.14E±.00	12±1	3.1		¶97vii3256		JMA	VIII	04 01 52 37.9±.2	38.97N±.01	140.44E±.02	132±2			¶97viii0443	
ISC	**VII**	**21 20 50 54**±4.8	**37.8N**±.18	**140.8E**±.44	**112**±48			**8**	**0-2**	**ISC**	**VIII**	**04 11 11 43**±5.8	**39.5N**±.15	**141.2E**±.18	**93**±55			**9**	**0-1**
JMA	VII	21 20 50 53.6±.2	37.75N±.01	140.78E±.04	117±2			¶97vii3287		JMA	VIII	04 11 11 43.2±.1	39.54N±.00	141.19E±.01	91±1			¶97viii0499	
ISC	**VII**	**22 01 23 10**±1.1	**36.29N**±.089	**137.34E**±.086	**260**±14			**41**	**0-5**	**ISC**	**VIII**	**05 05 12 00**±2.9	**36.2N**±.10	**139.7E**±.16	**128**±32			**15**	**0-2**
JMA	VII	22 01 23 10.7±.2	36.25N±.02	137.34E±.01	256±2			¶97vii3311		JMA	VIII	05 05 12 01.3±.3	36.15N±.01	139.72E±.02	112±3			¶97viii0619	
ISC	**VII**	**22 03 26 58.8**±.79	**38.25N**±.034	**140.26E**±.048	**10**±7.0			**36**	**0-3**	**ISC**	**VIII**	**05 08 24 08**±1.3	**36.04N**±.070	**139.9E**±.10	**30**±14			**14**	**1-3**
JMA	VII	22 03 26 58.6±.0	38.26N±.00	140.25E±.00	11±2	3.4		¶97vii3320		JMA	VIII	05 08 24 07.9±.1	36.03N±.01	139.93E±.01	42±2	3.1		¶97viii0637	
ISC	**VII**	**22 03 27 33.5**±.73	**38.27N**±.052	**140.28E**±.071	**8**±10			**15**	**0-2**	**ISC**	**VIII**	**05 08 25 14**±1.4	**37.99N**±.076	**140.9E**±.17	**73**±20			**13**	**0-2**
JMA	VII	22 03 27 33.8±.0	38.26N±.00	140.28E±.01	7±2	2.9		¶97vii3321		JMA	VIII	05 08 25 13.6±.1	37.98N±.00	140.94E±.01	77±1			¶97viii0638	
ISC	**VII**	**22 06 06 14**±1.1	**39.47N**±.051	**140.11E**±.074	**11**±12			**17**	**0-2**	**JMA**	**VIII**	**05 09 35 49.3**±.5	**36.06N**±.03	**139.82E**±.04	**121**±4			¶97viii0648	
JMA	VII	22 06 06 14.0±.0	39.46N±.00	140.11E±.00	13±2	3.2		¶97vii3332		**ISC**	**VIII**	**06 19 00 07**±2.9	**36.1N**±.25	**137.5E**±.44	**269**			**12**	**1-5**
ISC	**VII**	**22 19 37 05**±6.0	**38.9N**±.18	**140.9E**±.33	**100**±52			**9**	**0-1**	JMA	VIII	06 19 00 07.6±.3	36.14N±.03	137.49E±.04	269			¶97viii0830	
JMA	VII	22 19 37 05.3±.1	38.91N±.00	140.96E±.01	95±1			¶97vii3421		**ISC**	**VIII**	**07 04 17 41**±2.4	**36.4N**±.11	**138.6E**±.14	**157**±26			**21**	**0-4**
ISC	**VII**	**23 13 15 28**±5.9	**38.9N**±.18	**140.9E**±.33	**99**±51			**9**	**0-1**	JMA	VIII	07 04 17 41.7±.2	36.42N±.01	138.58E±.01	151±2			¶97viii0882	
JMA	VII	23 13 15 28.7±.3	38.95N±.01	140.99E±.02	90±3			¶97vii3534		**ISC**	**VIII**	**07 05 45 43**±1.3	**38.7N**±.15	**140.7E**±.30	**107**			**5**	**0-1**
ISC	**VII**	**23 14 09 51**±2.0	**37.16N**±.093	**140.8E**±.17	**111**±20			**18**	**0-2**	JMA	VIII	07 05 45 42.9±.4	38.69N±.01	140.67E±.03	107±4			¶97viii0889	
JMA	VII	23 14 09 51.8±.2	37.17N±.01	140.82E±.02	103±2			¶97vii3540		**ISC**	**VIII**	**07 07 47 46**±1.3	**38.21N**±.063	**140.9E**±.15	**80**±18			**18**	**0-2**
ISC	**VII**	**24 03 48 24**±1.8	**36.1N**±.23	**139.8E**±.23	**74**			**4**	**0-1**	JMA	VIII	07 07 47 46.0±.1	38.21N±.00	140.93E±.01	80±1			¶97viii0905	
JMA	VII	24 03 48 23.7±.2	36.09N±.01	139.82E±.01	74±2			¶97vii3606		**ISC**	**VIII**	**07 17 11 41**±4.7	**36.9N**±.16	**137.4E**±.44	**265**±44			**26**	**1-9**
ISC	Poorly determined									JMA	VIII	07 17 11 41.0±.4	36.89N±.02	137.43E±.05	265±5			¶97viii0976	
ISC	**VII**	**24 16 09 25**±1.4	**39.4N**±.19	**141.4E**±.34	**67**			**7**	**0-1**	**JMA**	**VIII**	**07 19 52 39.3**±.3	**39.51N**±.01	**141.76E**±.04	**93**±3			¶97viii0994	
JMA	VII	24 16 09 24.8±.3	39.35N±.01	141.42E±.02	67±3			¶97vii3696		**ISC**	**VIII**	**08 00 25 45.0**±.84	**39.76N**±.050	**141.9E**±.12	**67**±15			**24**	**0-5**
ISC	**VII**	**24 16 48 07**±1.7	**36.1N**±.23	**139.7E**±.25	**76**			**4**	**0-1**	JMA	VIII	08 00 25 45.8±.1	39.75N±.00	141.84E±.01	60±1	3.3		¶97viii1020	
JMA	VII	24 16 48 07.4±.3	36.08N±.02	139.72E±.02	76±3			¶97vii3701		**ISC**	**VIII**	**08 09 39 55.1**±.90	**39.81N**±.054	**141.9E**±.14	**79**±14			**22**	**0-5**
ISC	Poorly determined									JMA	VIII	08 09 39 56.2±.1	39.82N±.01	141.81E±.02	70±1			¶97viii1085	
JMA	**VII**	**24 16 52 30.6**±.4	**36.37N**±.03	**139.27E**±.03	**124**±3			¶97vii3702		**ISC**	**VIII**	**09 12 49 18**±1.4	**36.32N**±.069	**140.0E**±.10	**81**±21			**18**	**0-2**
ISC	**VII**	**25 05 09 38**±2.0	**39.9N**±.24	**141.0E**±.34	**110**			**9**	**0-1**	JMA	VIII	09 12 49 18.3±.1	36.32N±.01	139.93E±.01	85±1			¶97viii1251	
JMA	VII	25 05 09 37.7±.3	39.92N±.02	141.07E±.03	110±3			¶97vii3776		**JMA**	**VIII**	**09 14 40 35.2**±.3	**36.04N**±.02	**139.52E**±.02	**102**±2			¶97viii1269	
ISC	**VII**	**25 12 29 41**±2.5	**36.80N**±.091	**137.8E**±.20	**213**±23			**26**	**0-4**	**ISC**	**VIII**	**10 06 36 09**±1.2	**36.3N**±.12	**140.0E**±.21	**82**			**8**	**0-1**
JMA	VII	25 12 29 40.3±.3	36.79N±.02	137.85E±.02	218±3			¶97vii3827		JMA	VIII	10 06 36 08.8±.1	36.33N±.01	139.98E±.01	82±1			¶97viii1362	
ISC	**VII**	**25 13 18 52.3**±.62	**35.9N**±.12	**139.0E**±.13	**133**			**15**	**0-2**	**ISC**	**VIII**	**10 18 05 32**±1.8	**38.68N**±.076	**140.8E**±.15	**142**±21			**23**	**0-3**
JMA	VII	25 13 18 52.3±.2	35.94N±.01	138.96E±.01	133±2			¶97vii3832		JMA	VIII	10 18 05 32.4±.2	38.69N±.01	140.74E±.02	135±2			¶97viii1433	
ISC	**VII**	**25 18 11 56.8**±.70	**39.53N**±.041	**140.8E**±.11	**145**±10			**41**	**0-5**	**JMA**	**VIII**	**11 06 02 01.5**±.4	**36.39N**±.02	**139.94E**±.03	**115**±4			¶97viii1511	
JMA	VII	25 18 11 58.3±.1	39.53N±.00	140.66E±.01	129±1			¶97vii3857		**ISC**	**VIII**	**11 19 14 30**±1.0	**36.72N**±.046	**138.76E**±.066	**157**±13			**44**	**0-4**
ISC	**VII**	**25 20 58 41**±3.3	**37.3N**±.16	**141.0E**±.38	**102**±29			**11**	**0-2**	JMA	VIII	11 19 14 30.9±.1	36.71N±.00	138.78E±.01	150±2			¶97viii1615	
JMA	VII	25 20 58 41.5±.3	37.27N±.02	141.00E±.04	95±3			¶97vii3878		**ISC**	**VIII**	**12 04 28 14**±2.7	**36.3N**±.10	**137.5E**±.19	**244**±26			**28**	**0-5**
JMA	**VII**	**26 16 38 37.8**±.2	**36.39N**±.02	**139.26E**±.02	**124**±1			¶97vii3984		JMA	VIII	12 04 28 15.2±.3	36.33N±.03	137.60E±.02	235±3			¶97viii1678	
ISC	**VII**	**26 17 45 26**±2.2	**37.96N**±.089	**140.9E**±.22	**79**±28			**11**	**0-2**	**ISC**	**VIII**	**12 17 36 33**±1.0	**35.90N**±.056	**138.37E**±.087	**224**±9.9			**55**	**0-9**
JMA	VII	26 17 45 26.2±.0	37.96N±.00	140.93E±.01	80±1			¶97vii3988		JMA	VIII	12 17 36 36.4±.1	35.92N±.01	138.46E±.01	185±2			¶97viii1784	
ISC	**VII**	**26 22 51 37.6**±.76	**37.66N**±.051	**139.15E**±.078	**11**±8.8			**13**	**0-2**	**ISC**	**VIII**	**12 19 32 53**±2.3	**36.2N**±.17	**137.1E**±.14	**275**±33			**24**	**1-5**
JMA	VII	26 22 51 38.0±.1	37.66N±.01	139.16E±.01	12±4	3.0		¶97vii4022		JMA	VIII	12 19 32 53.8±.2	36.23N±.02	137.09E±.02	267±3			¶97viii1796	
ISC	**VII**	**27 01 04 29**±3.5	**38.14N**±.092	**140.5E**±.26	**107**±34			**11**	**0-2**	**ISC**	**VIII**	**12 19 42 32**±1.2	**35.9N**±.31	**138.5E**±.30	**176**			**6**	**0-2**
JMA	VII	27 01 04 28.4±.1	38.14N±.00	140.46E±.01	109±2			¶97vii4036		JMA	VIII	12 19 42 32.7±.3	35.95N±.03	138.58E±.02	176±3			¶97viii1797	
ISC	**VII**	**27 09 10 29**±2.7	**39.6N**±.22	**140.4E**±.43	**128**			**8**	**0-1**	**ISC**	**VIII**	**12 22 36 54**±1.5	**37.78N**±.082	**140.9E**±.26	**132**±18			**17**	**0-2**
JMA	VII	27 09 10 28.8±.3	39.60N±.02	140.34E±.03	128±2			¶97vii4088		JMA	VIII	12 22 36 55.0±.2	37.79N±.01	140.91E±.04	120±2			¶97viii1813	
ISC	**VII**	**27 12 21 54.9**±.35	**36.18N**±.028	**138.03E**±.038	**6**			**32**	**0-2**	**ISC**	**VIII**	**13 03 46 13**±1.5	**36.2N**±.21	**139.9E**±.20	**72**			**5**	**0-1**
JMA	VII	27 12 21 55.0±.1	36.18N±.00	138.02E±.01	6±3	2.8		¶97vii4107		JMA	VIII	13 03 46 13.6±.2	36.20N±.01	139.90E±.01	72±2			¶97viii1846	
ISC	**VII**	**27 16 10 28**±1.5	**36.3N**±.23	**140.0E**±.20	**76**			**4**	**0-1**	**ISC**	**VIII**	**13 13 52 01.8**±.68	**35.93N**±.060	**137.15E**±.050	**288**±9.0			**88**	**0-10**
JMA	VII	27 16 10 28.1±.2	36.32N±.01	139.97E±.01	76±2			¶97vii4132		JMA	VIII	13 13 52 03.1±.1	35.94N±.01	137.11E±.01	273±2			¶97viii1913	
ISC	Poorly determined									**ISC**	**VIII**	**13 14 59 15.4**±.27	**36.20N**±.030	**139.54E**±.053	**123**			**54**	**0-4**
ISC	**VII**	**28 15 42 24**±2.9	**37.2N**±.10	**140.6E**±.18	**129**±27			**17**	**0-2**	JMA	VIII	13 14 59 15.6±.1	36.18N±.01	139.52E±.01	123±2			¶97viii1924	
JMA	VII	28 15 42 24.8±.2	37.18N±.01	140.55E±.02	117±2			¶97vii4296		**ISC**	**VIII**	**13 23 28 23**±1.6	**39.47N**±.063	**141.7E**±.17	**66**±16			**18**	**0-2**
ISC	**VII**	**28 18 42 28**±6.6	**36.1N**±.33	**139.9E**±.26	**90**±62			**5**	**0-1**	JMA	VIII	13 23 28 23.0±.1	39.47N±.00	141.73E±.01	64±1			¶97viii1981	
JMA	VII	28 18 42 27.0±.3	36.02N±.02	139.91E±.02	101±2			¶97vii4314		**ISC**	**VIII**	**14 03 09 22**±1.3	**35.9N**±.13	**138.5E**±.29	**178**			**10**	**0-2**
ISC	Poorly determined									JMA	VIII	14 03 09 22.3±.3	35.92N±.02	138.52E±.03	178±3			¶97viii1995	
ISC	**VII**	**29 13 23 16**±2.8	**39.5N**±.40	**140.6E**±.57	**145**			**9**	**0-1**	**ISC**	**VIII**	**14 09 12 22.1**±.88	**36.38N**±.046	**139.48E**±.063	**132**±12			**42**	**0-4**
JMA	VII	29 13 23 16.4±.3	39.45N±.02	140.67E±.03	145±2			¶97vii4434		JMA	VIII	14 09 12 23.2±.1	36.36N±.01	139.46E±.01	119±2			¶97viii2036	
ISC	**VII**	**29 17 09 09**±1.6	**40.4N**±.37	**140.6E**±.37	**124**			**7**	**0-2**	**ISC**	**VIII**	**15 21 16 08**±1.5	**40.87N**±.055	**140.7E**±.22	**122**±22			**22**	**0-4**
JMA	VII	29 17 09 09.4±.1	40.42N±.03	140.62E±.04	124			¶97vii4452		JMA	VIII	15 21 16 07.5±.2	40.88N±.01	140.67E±.02	122±2			¶97viii2274	
ISC	**VII**	**29 19 34 52**±1.3	**37.33N**±.083	**140.9E**±.14	**75**±15			**21**	**0-3**	**ISC**	**VIII**	**17 06 53 27**±3.2	**36.2N**±.10	**139.4E**±.18	**135**±36			**17**	**0-3**
JMA	VII	29 19 34 52.4±.1	37.32N±.01	140.94E±.01	72±2			¶97vii4472		JMA	VIII	17 06 53 26.8±.2	36.15N±.01	139.39E±.01	133±2			¶97viii2503	
ISC	**VII**	**29 23 40 51**±1.1	**39.4N**±.22	**141.5E**±.43	**106**			**7**	**0-1**	**ISC**	**VIII**	**17 11 25 45**±1.7	**40.89N**±.050	**140.7E**±.17	**128**±20			**22**	**0-4**
JMA	VII	29 23 40 50.6±.2	39.37N±.01	141.49E±.03	106±2			¶97vii4503		JMA	VIII	17 11 25 45.6±.2	40.88N±.01	140.67E±.02	119±2			¶97viii2532	
ISC	**VII**	**30 08 18 03.5**±.27	**36.44N**±.026	**137.63E**±.027	**6**			**65**	**0-5**	**ISC**	**VIII**	**17 11 39 13.5**±.20	**36.47N**±.026	**138.21E**±.033	**209**±2.9	**3.6b**		**155**	**0-92**
JMA	VII	30 08 18 02.9±.0	36.40N±.00	137.63E±.00	6±2	3.5		¶97vii4553		BJI	VIII	17 11 39 13.0	36.42N	138.06E	208	4.4b		¶97viii2535	
ISC	**VII**	**30 08 18 25.7**±.67	**36.41N**±.045	**137.63E**±.042	**5**±8.1			**31**	**0-2**	NEIC	VIII	17 11 39 13.5	36.40N	138.12E	206	4.0b			
JMA	VII	30 08 18 26.1±.0	36.40N±.00	137.63E±.00	8±2	3.5		¶97vii4554		EIDC	VIII	17 11 39 14.2	36.4N	138.3E	199	3.3b			
ISC	**VII**	**30 08 18 43**±1.3	**36.4N**±.15	**137.63E**±.088	**11**±22			**22**	**0-2**	JMA	VIII	17 11 39 14.3±.1	36.42N±.00	138.18E±.01	202±1	4.1			
JMA	VII	30 08 18 43.4±.0	36.40N±.01	137.64E±.00	9±2	3.3		¶97vii4555		NEIC	Less reliable solution.								
ISC	Poorly determined									**ISC**	**VIII**	**18 00 16 51**±2.9	**36.6N**±.44	**138.7E**±.37	**143**			**7**	**1-2**
ISC	**VII**	**30 10 51 30.7**±.47	**36.15N**±.028	**139.83E**±.048	**54**±15			**46**	**0-4**	JMA	VIII	18 00 16 52.0±.2	36.39N±.05	138.80E±.04	143			¶97viii2602	
JMA	VII	30 10 51 30.4±.1	36.15N±.01	139.84E±.01	53±2	3.4		¶97vii4574		**ISC**	**VIII**	**18 04 27 56**±2.1	**39.88N**±.070	**141.9E**±.24	**74**±19			**13**	**0-2**
ISC	**VII**	**30 12 17 35**±3.5	**38.3N**±.10	**140.6E**±.20	**99**±36			**14**	**0-2**	JMA	VIII	18 04 27 55.8±.1	39.89N±.00	141.84E±.01	70±1			¶97viii2622	
JMA	VII	30 12 17 34.4±.3	38.30N±.01	140.59E±.03	101±3			¶97vii4580		**ISC**	**VIII**	**18 08 55 07**±1.4	**37.27N**±.070	**140.37E**±.099	**85**±17			**18**	**0-2**
ISC	**VII**	**30 16 36 32**±1.2	**37.20N**±.072	**140.4E**±.10	**86**±15			**22**	**0-3**	JMA	VIII	18 08 55 07.1±.1	37.26N±.01	140.39E±.01	89±2			¶97viii2649	
JMA	VII	30 16 36 31.4±.1	37.19N±.01	140.42E±.01	87±2			¶97vii4606		**ISC**	**VIII**	**18 17 44 15.8**±.73	**36.08N**±.042	**138.84E**±.050	**147**±10			**54**	**0-5**
ISC	**VII**	**30 18 33 34**±3.7	**39.5N**±.11	**141.3E**±.19	**76**±37			**9**	**0-1**	JMA	VIII	18 17 44 16.7±.1	36.10N±.01	138.84E±.01	139±1			¶97viii2699	
JMA	VII	30 18 33 33.8±.1	39.47N±.01	141.34E±.01	74±2			¶97vii4620		**ISC**	**VIII**	**19 23 27 01**±3.7	**36.4N**±.20	**139.9E**±.21	**123**±35			**12**	**0-3**
ISC	**VII**	**30 22 04 59**±1.1	**36.3N**±.28	**139.7E**±.30	**129**			**6**	**0-2**	JMA	VIII	19 23 27 01.3±.3	36.40N±.01	139.88E±.02	116±3			¶97viii2881	
JMA	VII	30 22 04 58.7±.2	36.28N±.01	139.72E±.02	129±2			¶97vii4641		**ISC**	**VIII**	**20 17 08 30**±1.5	**36.14N**±.055	**139.8E**±.10	**134**±19			**31**	**0-4**
ISC	**VII**	**31 05 23 12**±1.6	**39.6N**±.12	**141.9E**±.36	**92**			**8**	**0-1**	JMA	VIII	20 17 08 31.4±.2	36.13N±.01	139.77E±.02	115±3			¶97viii2993	
JMA	VII	31 05 23 12.4±.2	39.57N±.01	141.94E±.02	92±2			¶97vii4679		**JMA**	**VIII**	**21 00 17 40.3**±.2	**36.31N**±.06	**138.59E**±.03	**163**			¶97viii3036	
ISC	**VII**	**31 13 16 43**±2.6	**38.9N**±.32	**140.7E**±.35	**117**			**8**	**0-1**	**ISC**	**VIII**	**21 16 10 37.0**±.75	**36.70N**±.041	**139.32E**±.065	**133**±11			**44**	**0-4**
JMA	VII	31 13 16 43.6±.3	38.94N±.02	140.78E±.02	117±3			¶97vii4734		JMA	VIII	21 16 10 37.6±.1	36.70N±.01	139.29E±.01	127±2			¶97viii3118	
ISC	**VII**	**31 17 15 49**±1.3	**36.56N**±.084	**139.3E**±.11	**131**±16			**23**	**0-3**	**ISC**	**VIII**	**21 22 15 02**±4.5	**36.3N**±.19	**139.2E**±.26	**81**±46			**11**	**0-2**
JMA	VII	31 17 15 49.6±.1	36.55N±.01	139.33E±.01	121±2			¶97vii4767		JMA	VIII	21 22 15 02.1±.2	36.22N±.01	139.25E±.01	77±2			¶97viii3149	
ISC	**VII**	**31 18 29 16**±4.8	**39.3N**±.11	**141.3E**±.21	**88**±46			**9**	**0-1**	**ISC**	**VIII**	**22 03 20 20**±3.1	**38.00N**±.085	**140.5E**±.18	**108**±33			**15**	**0-2**
JMA	VII	31 18 29 16.9±.2	39.27N±.01	141.28E±.01	83±2			¶97vii4774		JMA	VIII	22 03 20 20.0±.1	38.00N±.00	140.50E±.01	107±2			¶97viii3173	
ISC	**VII**	**31 19 57 22**±7.3	**39.8N**±.18	**141.7E**±.32	**105**±61			**10**	**0-1**	**ISC**	**VIII**	**22 11 30 40**±1.6	**36.05N**±.070	**139.0E**±.12	**131**±18			**26**	**0-4**
JMA	VII	31 19 57 22.8±.2	39.74N±.01	141.65E±.02	99±2			¶97vii4782		JMA	VIII	22 11 30 40.5±.1	36.06N±.01	138.99E±.01	129±2			¶97viii3214	
ISC	**VIII**	**01 02 41 21.2**±.63	**35.13N**±.036	**137.97E**±.040	**12**±6.5			**29**	**0-2**	**ISC**	**VIII**	**22 12 14 28**±4.1	**36.0N**±.31	**137.4E**±.20	**291**±41			**26**	**0-5**
JMA	VIII	01 02 41 21.4±.0	35.14N±.00	137.95E±.01	16±1	3.0		¶97viii0014		JMA	VIII	22 12 14 31.3±.3	36.07N±.04	137.40E±.03	264±3			¶97viii3221	
ISC	**VIII**	**01 10 25 56**±4.4	**37.7N**±.13	**140.9E**±.33	**78**±48			**7**	**0-1**	**ISC**	**VIII**	**22 21 43 49**±1.7	**39.9N**±.15	**141.8E**±.34	**67**			**7**	**0-1**
JMA	VIII	01 10 25 56.2±.1	37.71N±.00	140.90E±.02	78±2			¶97viii0049		JMA	VIII	22 21 43 49.2±.1	39.86N±.01	141.82E±.01	67±1			¶97viii3290	
ISC	**VIII**	**01 16 14 37.8**±.63	**39.10N**±.034	**140.83E**±.055	**5**±7.8			**21**	**0-2**	**ISC**	**VIII**	**22 22 37 12.5**±.28	**35.45N**±.042	**137.28E**±.042	**301**±3.5	**3.6b**		**116**	**0-94**
JMA	VIII	01 16 14 38.3±.0	39.10N±.00	140.83E±.00	10±1	2.9		¶97viii0089		NEIC	VIII	22 22 37 12.6	35.37N	137.21E	300	3.8b		¶97viii3298	
ISC	**VIII**	**01 18 40 13**±4.4	**36.3N**±.23	**139.5E**±.32	**137**±47			**9**	**0-2**	JMA	VIII	22 22 37 13.4±.1	35.42N±.01	137.25E±.01	292±2				
JMA	VIII	01 18 40 13.0±.2	36.28N±.01	139.55E±.02	135±2			¶97viii0101		EIDC	VIII	22 22 37 13.5	35.3N	137.2E	288	3.5b			
ISC	**VIII**	**01 21 19 22**±1.7	**39.1N**±.15	**140.7E**±.34	**111**			**9**	**0-1**	NEIC	Less reliable solution.								
JMA	VIII	01 21 19 21.8±.4	39.10N±.02	140.68E±.04	111±4			¶97viii0115		**ISC**	**VIII**	**23 14 44 12**±7.3	**40.9N**±.66	**140.5E**±.69	**184**			**8**	**1-2**
JMA	**VIII**	**02 06 00 55.9**±.4	**36.32N**±.03	**139.95E**±.03	**111**±4			¶97viii0180		JMA	VIII	23 14 44 11.8±.2	40.96N±.03	140.58E±.04	184±4			¶97viii3415	
ISC	**VIII**	**02 08 22 33**±1.1	**37.42N**±.073	**140.9E**±.15	**78**±14			**22**	**0-3**	**ISC**	**VIII**	**23 16 16 26**±3.7	**36.1N**±.28	**137.3E**±.35	**277**±42			**13**	**1-5**
JMA	VIII	02 08 22 32.9±.2	37.42N±.01	140.88E±.02	81±2			¶97viii0191		JMA	VIII	23 16 16 26.8±.2	36.11N±.03	137.34E±.04	265			¶97viii3422	
ISC	**VIII**	**03 10 21 09**±1.5	**36.1N**±.38	**139.8E**±.33	**111**			**6**	**0-1**	**ISC**	**VIII**	**23 19 44 29**±4.5	**37.4N**±.15	**140.1E**±.25	**141**±49			**10**	**0-2**
JMA	VIII	03 10 21 09.1±.3	36.10N±.02	139.82E±.02	111±3			¶97viii0350		JMA	VIII	23 19 44 29.1±.3	37.37N±.01	140.13E±.03	141±3			¶97viii3447	

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 24 06 53 47**±3.5	**39.03N**±.097	**141.4E**±.21	**118**±36		**13**	**0-2**
JMA	VIII 24 06 53 47.8±.2	39.02N±.01	141.36E±.02	110±2		**¶97viii3490**	
ISC	**VIII 24 22 37 22**±3.8	**39.4N**±.10	**141.4E**±.18	**71**±40		**10**	**0-1**
JMA	VIII 24 22 37 21.6±.2	39.38N±.01	141.37E±.01	72±2		**¶97viii3601**	
ISC	**VIII 25 18 43 35.4**±.73	**36.15N**±.034	**139.80E**±.057	**121**±12		**47**	**0-4**
JMA	VIII 25 18 43 36.6±.1	36.14N±.01	139.78E±.01	105±2		**¶97viii3726**	
ISC	**VIII 26 04 01 54**±1.2	**37.85N**±.054	**139.33E**±.089	**168**±14		**38**	**0-4**
JMA	VIII 26 04 01 55.1±.2	37.88N±.01	139.29E±.01	159±2		**¶97viii3784**	
ISC	**VIII 26 05 04 53.4**±.47	**35.90N**±.042	**137.69E**±.044	**12**		**23**	**0-3**
JMA	VIII 26 05 04 53.2±.0	35.89N±.00	137.65E±.00	12±1	2.8	**¶97viii3790**	
ISC	**VIII 26 07 53 39**±3.6	**39.5N**±.23	**141.8E**±.78	**89**		**5**	**0-1**
JMA	VIII 26 07 53 39.3±.3	39.47N±.02	141.81E±.06	89		**¶97viii3809**	
ISC	**VIII 27 09 16 55**±2.7	**37.0N**±.14	**140.9E**±.21	**108**±24		**15**	**0-3**
JMA	VIII 27 09 16 55.8±.3	37.02N±.01	140.83E±.03	99±3		**¶97viii3964**	
ISC	**VIII 28 00 41 53**±2.8	**37.6N**±.10	**140.5E**±.38	**103**±27		**12**	**0-2**
JMA	VIII 28 00 41 52.4±.2	37.61N±.01	140.52E±.03	105±3		**¶97viii4064**	
ISC	**VIII 28 01 00 51**±4.0	**38.8N**±.11	**140.9E**±.20	**102**±40		**10**	**0-1**
JMA	VIII 28 01 00 51.6±.2	38.77N±.01	140.87E±.02	100±2		**¶97viii4065**	
ISC	**VIII 28 07 26 10**±1.4	**39.6N**±.14	**140.3E**±.26	**137**		**12**	**0-2**
JMA	VIII 28 07 26 10.5±.3	39.55N±.01	140.37E±.02	137±3		**¶97viii4101**	
ISC	**VIII 28 11 44 20**±2.6	**39.15N**±.075	**141.1E**±.13	**89**±28		**17**	**0-2**
JMA	VIII 28 11 44 20.0±.1	39.15N±.00	141.14E±.01	89±2		**¶97viii4124**	
ISC	**VIII 28 12 36 06.9**±.75	**36.10N**±.042	**139.42E**±.064	**70**±14		**32**	**0-4**
JMA	VIII 28 12 36 06.7±.1	36.09N±.01	139.43E±.01	71±2		**¶97viii4132**	
ISC	**VIII 28 21 36 50.8**±.58	**36.29N**±.042	**138.22E**±.068	**193**±6.1	**3.1b**	**55**	**0-60**
EIDC	VIII 28 21 36 30.2	36.5N	134.8E	0	3.4b,4.2L	**¶97viii4184**	
JMA	VIII 28 21 36 51.9±.1	36.30N±.01	138.24E±.01	183±2			
JMA	**VIII 28 23 39 22.0**±.1	**39.49N**±.01	**141.18E**±.02	**80**±1		**¶97viii4200**	
ISC	**VIII 29 02 43 08**±1.5	**36.24N**±.071	**139.7E**±.12	**139**±20		**23**	**0-4**
JMA	VIII 29 02 43 09.5±.2	36.22N±.01	139.72E±.02	125±2		**¶97viii4223**	
ISC	**VIII 29 21 28 48**±1.2	**37.95N**±.078	**140.9E**±.19	**80**±17		**15**	**0-2**
JMA	VIII 29 21 28 47.7±.1	37.94N±.01	140.95E±.02	82±2		**¶97viii4381**	
ISC	**VIII 29 22 40 26**±1.3	**36.59N**±.070	**139.94E**±.088	**131**±16		**30**	**0-4**
JMA	VIII 29 22 40 26.7±.2	36.55N±.01	139.92E±.01	121±2		**¶97viii4387**	
JMA	**VIII 30 00 09 04.8**±.4	**38.88N**±.02	**140.84E**±.07	**97**		**¶97viii4398**	
ISC	**VIII 30 11 43 37**±3.9	**37.9N**±.16	**139.3E**±.38	**157**±43		**12**	**1-3**
JMA	VIII 30 11 43 36.9±.3	37.89N±.01	139.34E±.03	161±3		**¶97viii4476**	
ISC	**VIII 30 15 58 50**±2.5	**37.64N**±.067	**139.1E**±.12	**0**±19		**14**	**1-2**
JMA	VIII 30 15 58 50.7±.2	37.65N±.01	139.08E±.01	9±3	2.9	**¶97viii4510**	
ISC	**VIII 30 18 58 01**±1.6	**37.3N**±.19	**141.0E**±.37	**88**		**8**	**0-2**
JMA	VIII 30 18 58 00.8±.2	37.32N±.01	141.01E±.02	88±2		**¶97viii4525**	
ISC	**VIII 31 00 35 49**±2.6	**37.5N**±.10	**140.8E**±.20	**110**±28		**13**	**0-2**
JMA	VIII 31 00 35 49.0±.3	37.49N±.01	140.80E±.04	107±3		**¶97viii4559**	
ISC	**VIII 31 02 25 53**±3.7	**39.6N**±.11	**141.1E**±.26	**131**±35		**11**	**0-2**
JMA	VIII 31 02 25 53.3±.2	39.61N±.01	141.13E±.02	131±2		**¶97viii4571**	
ISC	**VIII 31 03 50 19**±1.1	**37.50N**±.062	**140.6E**±.11	**83**±14		**23**	**0-3**
JMA	VIII 31 03 50 18.2±.1	37.48N±.01	140.63E±.01	89±2		**¶97viii4581**	
ISC	**VIII 31 08 49 16**±2.9	**39.29N**±.095	**140.5E**±.22	**109**±28		**14**	**0-2**
JMA	VIII 31 08 49 15.5±.4	39.31N±.02	140.39E±.03	117±4		**¶97viii4626**	
ISC	**VIII 31 13 16 27**±4.5	**37.4N**±.24	**139.2E**±.22	**183**±49		**10**	**0-3**
JMA	VIII 31 13 16 28.7±.4	37.43N±.02	139.30E±.02	171±5		**¶97viii4655**	
ISC	**VIII 31 13 33 22**±2.4	**39.0N**±.10	**141.7E**±.28	**75**±26		**12**	**0-2**
JMA	VIII 31 13 33 21.8±.2	39.01N±.01	141.75E±.02	74±2		**¶97viii4657**	
ISC	**VIII 31 13 41 53.5**±.47	**36.11N**±.039	**139.90E**±.066	**48**		**35**	**0-4**
JMA	VIII 31 13 41 53.1±.1	36.09N±.01	139.86E±.01	48±2	2.9	**¶97viii4660**	
ISC	**VIII 31 16 05 58.8**±.60	**38.68N**±.034	**140.75E**±.053	**0**±7.4		**24**	**0-2**
JMA	VIII 31 16 05 59.4±.0	38.68N±.00	140.74E±.00	11±2	2.8	**¶97viii4678**	
ISC	**VIII 31 19 43 28**±2.4	**39.21N**±.092	**141.5E**±.22	**79**±27		**11**	**0-2**
JMA	VIII 31 19 43 27.9±.1	39.20N±.01	141.52E±.01	77±2		**¶97viii4698**	
ISC	**VIII 31 20 54 33**±4.5	**39.4N**±.11	**141.7E**±.33	**72**±47		**8**	**0-1**
JMA	VIII 31 20 54 33.0±.1	39.36N±.01	141.71E±.01	68±2		**¶97viii4706**	
ISC	**IX 01 02 13 31**±1.1	**37.0N**±.14	**140.4E**±.20	**81**		**6**	**0-1**
JMA	IX 01 02 13 30.7±.3	36.97N±.01	140.42E±.02	81±3		**¶97ix0022**	
ISC	**IX 01 02 26 58**±2.6	**36.3N**±.13	**139.9E**±.17	**104**±33		**13**	**0-2**
JMA	IX 01 02 26 58.6±.2	36.32N±.01	139.87E±.01	101±2		**¶97ix0024**	
JMA	**IX 01 04 22 12.1**±.2	**37.73N**±.01	**140.98E**±.03	**92**±2		**¶97ix0039**	
ISC	**IX 01 08 17 41**±2.8	**39.76N**±.087	**141.8E**±.25	**58**±30		**11**	**0-2**
JMA	IX 01 08 17 40.9±.1	39.76N±.00	141.83E±.01	56±1	2.8	**¶97ix0071**	
ISC	**IX 01 14 19 07**±2.2	**39.4N**±.18	**140.6E**±.56	**150**		**11**	**0-2**
JMA	IX 01 14 19 07.5±.3	39.42N±.01	140.60E±.03	150±3		**¶97ix0112**	
ISC	**IX 01 14 56 39**±4.5	**39.5N**±.11	**141.4E**±.23	**79**±46		**8**	**0-1**
JMA	IX 01 14 56 39.5±.2	39.47N±.01	141.40E±.02	78±2		**¶97ix0123**	
JMA	**IX 01 23 49 12.2**±.1	**37.12N**±.01	**139.71E**±.04	**115**±4		**¶97ix0180**	
ISC	**IX 02 23 15 17**±1.1	**39.7N**±.17	**141.1E**±.23	**97**		**9**	**0-1**
JMA	IX 02 23 15 17.1±.1	39.71N±.00	141.09E±.01	97±1		**¶97ix0344**	
ISC	**IX 02 23 22 03.2**±.37	**36.66N**±.053	**139.00E**±.071	**138**		**31**	**0-3**
JMA	IX 02 23 22 03.5±.1	36.64N±.01	138.99E±.01	138±2		**¶97ix0345**	
ISC	**IX 03 06 01 59.0**±.68	**39.66N**±.074	**141.4E**±.21	**120**		**14**	**0-3**
JMA	IX 03 06 01 59.0±.2	39.67N±.01	141.37E±.02	120±2		**¶97ix0387**	
ISC	**IX 03 06 59 05**±5.2	**39.4N**±.34	**141.9E**±.92	**90**		**4**	**0-1**
JMA	IX 03 06 59 05.2±.0	39.39N±.00	141.93E±.01	90±1		**¶97ix0391**	
ISC	Poorly determined						
ISC	**IX 03 07 24 58**±1.7	**38.06N**±.065	**140.9E**±.18	**101**±21		**17**	**0-2**
JMA	IX 03 07 24 57.7±.1	38.06N±.00	140.88E±.02	99±2		**¶97ix0394**	
ISC	**IX 03 12 56 31**±3.4	**37.7N**±.12	**141.0E**±.29	**77**±41		**8**	**0-1**
JMA	IX 03 12 56 30.8±.1	37.71N±.00	140.96E±.02	73±2		**¶97ix0426**	
ISC	**IX 03 13 55 21**±2.6	**39.12N**±.085	**141.7E**±.24	**70**±27		**11**	**0-2**
JMA	IX 03 13 55 20.6±.1	39.12N±.00	141.74E±.01	69±1		**¶97ix0430**	
ISC	**IX 04 12 14 02**±2.0	**39.0N**±.26	**140.2E**±.42	**155**		**10**	**0-2**
JMA	IX 04 12 14 02.2±.3	38.97N±.02	140.30E±.02	155±2		**¶97ix0582**	
ISC	**IX 04 19 59 23**±4.8	**36.7N**±.13	**139.1E**±.14	**138**±49		**15**	**0-2**
JMA	IX 04 19 59 23.6±.3	36.67N±.01	139.10E±.02	137±3		**¶97ix0629**	
ISC	**IX 05 08 54 57**±1.3	**37.8N**±.11	**139.4E**±.26	**223**±11		**20**	**0-64**
JMA	IX 05 08 55 01.7±.4	37.79N±.02	139.52E±.03	181±4		**¶97ix0717**	
ISC	**IX 05 10 05 37.1**±.90	**36.3N**±.16	**139.4E**±.25	**105**		**9**	**0-1**
JMA	IX 05 10 05 37.1±.2	36.23N±.01	139.38E±.01	105±2		**¶97ix0731**	
ISC	**IX 06 06 14 35**±1.9	**37.91N**±.074	**139.2E**±.12	**153**±23		**23**	**0-3**
JMA	IX 06 06 14 35.0±.3	37.91N±.01	139.24E±.01	153±3		**¶97ix0868**	
ISC	**IX 06 15 44 37.5**±.87	**36.9N**±.16	**139.5E**±.18	**128**		**7**	**0-1**
JMA	IX 06 15 44 37.6±.4	36.89N±.02	139.48E±.03	128±4		**¶97ix0939**	
ISC	**IX 06 23 42 32.8**±.62	**36.02N**±.039	**139.95E**±.058	**49**±26		**35**	**1-4**
JMA	IX 06 23 42 32.6±.1	36.00N±.01	139.92E±.01	51±2	3.0	**¶97ix0990**	
ISC	**IX 07 00 00 12.7**±.65	**37.92N**±.043	**139.57E**±.085	**206**±8.5		**61**	**0-7**
JMA	IX 07 00 00 14.8±.1	37.91N±.01	139.53E±.01	183±2		**¶97ix0994**	
ISC	**IX 07 05 47 44.2**±.32	**35.86N**±.030	**137.59E**±.034	**13**		**41**	**0-3**
JMA	IX 07 05 47 43.4±.0	35.87N±.00	137.57E±.00	13±1	3.2	**¶97ix1019**	
ISC	**IX 07 13 40 01.5**±.34	**36.06N**±.030	**139.87E**±.052	**49**		**38**	**0-4**
JMA	IX 07 13 40 01.1±.1	36.06N±.01	139.86E±.01	49±2	3.3	**¶97ix1071**	
ISC	**IX 08 11 45 15**±6.4	**39.2N**±.13	**140.9E**±.38	**100**±53		**9**	**0-1**
JMA	IX 08 11 45 15.7±.2	39.17N±.01	140.97E±.02	96±2		**¶97ix1215**	
ISC	**IX 09 08 56 58.3**±.68	**37.14N**±.041	**140.44E**±.073	**80**±11		**38**	**0-3**
JMA	IX 09 08 56 58.0±.1	37.13N±.00	140.44E±.01	83±2		**¶97ix1346**	
ISC	**IX 09 10 47 35.3**±.67	**38.28N**±.032	**140.27E**±.044	**5**±6.5		**35**	**0-3**
JMA	IX 09 10 47 35.7±.0	38.26N±.00	140.25E±.00	12±1	3.3	**¶97ix1362**	
ISC	**IX 09 10 47 56**±1.6	**38.2N**±.18	**140.2E**±.12	**13**		**10**	**0-1**
JMA	IX 09 10 47 56.4±.0	38.25N±.00	140.24E±.00	13±1	3.3	**¶97ix1363**	
ISC	Poorly determined						
ISC	**IX 09 10 56 03.3**±.66	**38.27N**±.032	**140.27E**±.045	**5**±6.5		**31**	**0-3**
JMA	IX 09 10 56 03.7±.0	38.26N±.00	140.25E±.00	12±1	2.9	**¶97ix1366**	
ISC	**IX 09 11 31 22.0**±.65	**38.28N**±.031	**140.28E**±.043	**2**±6.4		**36**	**0-3**
JMA	IX 09 11 31 22.5±.0	38.26N±.00	140.25E±.00	12±1	3.1	**¶97ix1369**	
ISC	**IX 09 14 32 06**±1.5	**37.73N**±.053	**140.18E**±.095	**156**±18		**29**	**0-3**
JMA	IX 09 14 32 07.5±.2	37.75N±.01	140.17E±.01	145±2		**¶97ix1393**	
ISC	**IX 09 19 18 52**±5.2	**39.2N**±.10	**141.4E**±.22	**74**±53		**9**	**0-1**
JMA	IX 09 19 18 51.6±.1	39.21N±.00	141.38E±.01	73±2		**¶97ix1433**	
ISC	**IX 09 22 00 13**±1.1	**36.17N**±.049	**139.28E**±.088	**107**±15		**32**	**0-4**
JMA	IX 09 22 00 13.6±.1	36.17N±.01	139.28E±.01	101±2		**¶97ix1444**	
JMA	**IX 10 06 08 32.2**±.5	**37.21N**±.02	**140.43E**±.03	**166**±5		**¶97ix1480**	
ISC	**IX 10 06 08 39.7**±.87	**36.6N**±.11	**139.2E**±.20	**140**		**13**	**0-2**
JMA	IX 10 06 08 40.0±.3	36.56N±.01	139.25E±.02	140±3		**¶97ix1481**	
JMA	**IX 10 07 45 03.3**±.2	**37.30N**±.01	**140.28E**±.02	**160**±2		**¶97ix1492**	
ISC	**IX 10 09 29 24.7**±.61	**36.34N**±.041	**139.99E**±.064	**74**±13		**39**	**0-4**
JMA	IX 10 09 29 24.5±.1	36.32N±.01	139.97E±.01	76±2		**¶97ix1506**	
ISC	**IX 10 20 09 01.9**±.61	**39.26N**±.084	**141.1E**±.21	**124**		**14**	**0-2**
JMA	IX 10 20 09 01.8±.3	39.28N±.01	141.15E±.03	124±2		**¶97ix1571**	
ISC	**IX 10 20 58 57**±2.0	**36.1N**±.23	**139.9E**±.21	**62**		**4**	**0-1**
JMA	IX 10 20 58 57.5±.2	36.12N±.01	139.91E±.01	62±3		**¶97ix1578**	
ISC	Poorly determined						
ISC	**IX 11 12 37 39**±3.1	**40.3N**±.31	**140.4E**±.43	**175**		**10**	**1-2**
JMA	IX 11 12 37 39.3±.2	40.29N±.02	140.43E±.02	175±2		**¶97ix1674**	
ISC	**IX 12 03 16 10.8**±.61	**35.78N**±.029	**137.48E**±.035	**1**±6.4		**36**	**0-3**
JMA	IX 12 03 16 11.4±.0	35.79N±.00	137.48E±.00	12±1	3.3	**¶97ix1764**	
ISC	**IX 12 08 36 52**±1.4	**39.33N**±.059	**141.4E**±.16	**71**±18		**16**	**0-2**
JMA	IX 12 08 36 52.1±.1	39.33N±.00	141.36E±.01	73±1		**¶97ix1787**	
ISC	**IX 12 13 24 42**±3.6	**35.6N**±.22	**138.8E**±.17	**174**±31		**18**	**0-4**
JMA	IX 12 13 24 42.8±.2	35.67N±.01	138.82E±.01	165±2		**¶97ix1818**	
ISC	**IX 12 13 39 06.6**±.81	**36.22N**±.043	**139.20E**±.065	**118**±12		**43**	**0-4**
JMA	IX 12 13 39 07.2±.2	36.22N±.01	139.21E±.01	111±2		**¶97ix1821**	
ISC	**IX 13 12 56 18**±1.4	**36.3N**±.20	**139.3E**±.30	**91**		**5**	**0-1**
JMA	IX 13 12 56 17.5±.3	36.28N±.01	139.26E±.02	91±2		**¶97ix1972**	
ISC	Poorly determined						
ISC	**IX 13 15 40 43**±1.1	**37.0N**±.14	**140.7E**±.22	**97**		**9**	**0-2**
JMA	IX 13 15 40 42.3±.3	37.00N±.01	140.73E±.03	97±3		**¶97ix1989**	
ISC	**IX 14 00 01 32**±3.7	**39.00N**±.086	**141.4E**±.25	**118**±36		**18**	**0-2**
JMA	IX 14 00 01 32.3±.2	39.00N±.01	141.36E±.02	111±2		**¶97ix2051**	
ISC	**IX 14 00 58 57**±1.5	**39.5N**±.17	**141.8E**±.30	**92**		**7**	**0-1**
JMA	IX 14 00 58 57.2±.2	39.54N±.01	141.83E±.02	92±2		**¶97ix2057**	
ISC	**IX 14 01 17 44.1**±.80	**39.6N**±.15	**141.4E**±.22	**115**		**12**	**0-2**
JMA	IX 14 01 17 44.0±.2	39.65N±.01	141.37E±.02	115±2		**¶97ix2058**	
JMA	**IX 14 03 36 31.0**±.3	**36.11N**±.02	**139.99E**±.02	**67**±3		**¶97ix2064**	
ISC	**IX 14 13 22 37**±2.9	**39.51N**±.089	**141.2E**±.19	**126**±28		**20**	**0-2**
JMA	IX 14 13 22 37.6±.1	39.50N±.01	141.22E±.01	118±2		**¶97ix2129**	
ISC	**IX 15 03 15 21**±1.4	**36.1N**±.20	**139.8E**±.25	**111**		**10**	**0-2**
JMA	IX 15 03 15 20.7±.2	36.08N±.01	139.80E±.02	111±2		**¶97ix2196**	
ISC	**IX 15 03 32 07**±3.9	**37.2N**±.19	**140.9E**±.40	**110**±38		**7**	**0-2**
JMA	IX 15 03 32 07.9±.3	37.20N±.02	140.87E±.04	100±4		**¶97ix2198**	
ISC	**IX 16 01 43 42**±5.5	**39.6N**±.15	**141.3E**±.41	**82**±50		**8**	**0-1**
JMA	IX 16 01 43 42.6±.1	39.56N±.00	141.33E±.02	78±1		**¶97ix2309**	
ISC	**IX 16 04 05 07**±1.2	**40.45N**±.057	**140.5E**±.19	**166**±13		**29**	**0-5**
JMA	IX 16 04 05 08.6±.1	40.45N±.01	140.51E±.02	151±2		**¶97ix2328**	
ISC	**IX 16 13 17 12.8**±.86	**35.48N**±.055	**137.39E**±.053	**66**±14		**27**	**0-2**
JMA	IX 16 13 17 13.0±.1	35.49N±.00	137.39E±.00	64±1		**¶97ix2389**	
ISC	**IX 16 21 33 33**±5.2	**40.3N**±.44	**140.6E**±.57	**132**		**8**	**1-1**
JMA	IX 16 21 33 33.3±.3	40.32N±.03	140.66E±.04	132		**¶97ix2431**	
ISC	**IX 17 00 30 49.8**±.92	**38.88N**±.042	**140.05E**±.060	**13**±8.2		**26**	**0-2**
JMA	IX 17 00 30 50.0±.0	38.88N±.00	140.04E±.00	20±1	3.2	**¶97ix2449**	
ISC	**IX 17 18 31 11.2**±.83	**35.45N**±.036	**138.97E**±.044	**15**±8.1		**26**	**0-2**
JMA	IX 17 18 31 11.4±.0	35.47N±.00	138.97E±.01	21±2	3.0	**¶97ix2545**	
ISC	**IX 17 18 38 00.1**±.52	**35.47N**±.042	**138.94E**±.055	**16**±13		**18**	**0-1**
JMA	IX 17 18 38 00.3±.0	35.46N±.00	138.94E±.01	18±2	2.8	**¶97ix2546**	
JMA	**IX 18 04 26 01.9**±.4	**36.02N**±.02	**139.50E**±.03	**95**±4		**¶97ix2617**	
ISC	**IX 18 20 09 39**±1.3	**37.31N**±.080	**140.4E**±.12	**91**±16		**17**	**0-2**
JMA	IX 18 20 09 39.3±.1	37.30N±.01	140.44E±.01	91±2		**¶97ix2709**	
ISC	**IX 19 06 48 13.6**±.41	**36.15N**±.034	**139.85E**±.056	**48**		**32**	**0-3**
JMA	IX 19 06 48 13.4±.1	36.14N±.01	139.82E±.01	48±2	3.3	**¶97ix2754**	
JMA	**IX 19 10 02 36.3**±.3	**36.12N**±.01	**139.83E**±.01	**49**±3	**2.8**	**¶97ix2777**	
ISC	**IX 20 05 21 15**±1.9	**37.5N**±.14	**140.7E**±.29	**79**±22		**10**	**0-2**
JMA	IX 20 05 21 15.2±.0	37.49N±.00	140.72E±.01	79±1		**¶97ix2903**	
ISC	**IX 20 16 24 56**±1.6	**36.10N**±.077	**139.6E**±.16	**134**±18		**25**	**0-4**
JMA	IX 20 16 24 58.6±.2	36.12N±.01	139.67E±.02	108±2		**¶97ix2967**	
ISC	**IX 21 07 34 17**±1.5	**39.39N**±.050	**141.4E**±.17	**114**±16		**24**	**0-3**
JMA	IX 21 07 34 16.6±.1	39.38N±.00	141.43E±.01	115±1		**¶97ix3057**	
ISC	**IX 21 15 41 57.7**±.70	**37.02N**±.096	**140.3E**±.19	**90**		**11**	**0-3**
JMA	IX 21 15 41 57.6±.2	37.01N±.01	140.33E±.02	90±2		**¶97ix3121**	
JMA	**IX 21 16 29 04.1**±.4	**36.26N**±.02	**139.92E**±.02	**74**±3		**¶97ix3126**	
ISC	**IX 23 13 49 49**±1.7	**38.70N**±.061	**140.9E**±.12	**87**±21		**18**	**0-2**
JMA	IX 23 13 49 49.0±.1	38.70N±.00	140.91E±.01	87±2		**¶97ix3427**	
JMA	**IX 23 19 43 39.1**±.3	**36.33N**±.02	**139.95E**±.01	**78**±3		**¶97ix3467**	
ISC	**IX 24 01 01 59.2**±.79	**35.54N**±.051	**138.98E**±.066	**14**±9.2		**12**	**0-1**
JMA	IX 24 01 01 59.4±.0	35.53N±.00	138.98E±.01	19±1	2.9	**¶97ix3504**	
JMA	**IX 24 09 04 20**±2.7	**39.38N**±.090	**140.9E**±.20	**135**±29		**16**	**0-2**
JMA	IX 24 09 04 20.5±.2	39.35N±.01	140.95E±.02	134±2		**¶97ix3554**	
ISC	**IX 24 18 52 52.3**±.66	**36.59N**±.042	**139.18E**±.049	**7**±7.3		**20**	**0-2**
JMA	IX 24 18 52 52.7±.0	36.58N±.00	139.18E±.01	10±2	2.8	**¶97ix3619**	
ISC	**IX 24 19 38 47**±4.4	**37.0N**±.13	**139.8E**±.26	**142**±47		**14**	**0-3**
JMA	IX 24 19 38 48.0±.3	37.00N±.01	139.83E±.02	138±3		**¶97ix3623**	
ISC	**IX 25 05 52 57**±1.3	**39.07N**±.051	**141.0E**±.11	**94**±16		**22**	**0-3**
JMA	IX 25 05 52 57.2±.1	39.07N±.00	141.01E±.01	95±1		**¶97ix3688**	
ISC	**IX 25 07 31 01.5**±.40	**39.00N**±.032	**140.64E**±.052	**6**		**25**	**0-2**
JMA	IX 25 07 31 01.6±.1	38.98N±.00	140.63E±.00	6±2	2.8	**¶97ix3701**	
ISC	**IX 25 10 05 42.7**±.33	**35.74N**±.030	**137.16E**±.035	**12**		**40**	**0-3**
JMA	IX 25 10 05 42.3±.0	35.73N±.00	137.14E±.00	12±1	3.3	**¶97ix3718**	
ISC	**IX 25 10 50 35**±1.5	**36.01N**±.073	**139.5E**±.13	**63**±23		**13**	**0-2**
JMA	IX 25 10 50 34.9±.1	36.02N±.01	139.49E±.01	62±2		**¶97ix3727**	
ISC	**IX 25 12 28 00**±1.5	**37.51N**±.080	**140.9E**±.14	**77**±18		**16**	**0-2**
JMA	IX 25 12 27 59.3±.1	37.49N±.01	140.94E±.02	77±2		**¶97ix3737**	
ISC	**IX 26 02 21 53**±1.6	**40.0N**±.19	**141.5E**±.35	**75**		**7**	**0-1**
JMA	IX 26 02 21 53.0±.3	39.99N±.01	141.51E±.03	75±2		**¶97ix3843**	

JMA	**IX**	**26 03 22 39.8**±.3	**36.01N**±.01	**139.95E**±.02	**73**±3				¶97ix3854
ISC	**IX**	**26 05 50 19**±6.8	**39.7N**±.19	**141.3E**±.25	**90**±61			**9**	**0-1**
JMA	IX	26 05 50 19.5±.1	39.68N±.00	141.31E±.01	86±1				¶97ix3888
ISC	**IX**	**26 20 12 11.3**±.75	**36.17N**±.042	**139.04E**±.062	**82**±12			**34**	**0-4**
JMA	IX	26 20 12 11.1±.1	36.17N±.00	139.05E±.01	85±2				¶97ix4130
ISC	**IX**	**27 13 16 52**±1.5	**36.2N**±.27	**139.8E**±.26	**107**			**5**	**0-1**
JMA	IX	27 13 16 51.7±.3	36.16N±.02	139.80E±.02	107±3				¶97ix4360
ISC	Poorly determined								
ISC	**IX**	**27 15 05 53.9**±.83	**36.37N**±.036	**138.80E**±.048	**149**±11			**56**	**0-4**
JMA	IX	27 15 05 54.2±.1	36.38N±.00	138.80E±.01	147±1	3.0			¶97ix4382
ISC	**IX**	**27 16 02 01.5**±.91	**36.1N**±.16	**138.5E**±.25	**77**			**7**	**0-1**
JMA	IX	27 16 02 01.6±.2	36.11N±.01	138.54E±.01	77±2				¶97ix4401
ISC	**IX**	**27 20 47 02.6**±.90	**39.8N**±.14	**141.3E**±.20	**88**			**8**	**0-1**
JMA	IX	27 20 47 02.6±.2	39.82N±.01	141.26E±.01	88±2				¶97ix4455
ISC	**IX**	**28 02 20 35.2**±.88	**39.62N**±.047	**140.80E**±.074	**11**±9.5			**17**	**0-2**
JMA	IX	28 02 20 35.5±.0	39.60N±.00	140.80E±.00	16±2	3.0			¶97ix4515
ISC	**IX**	**28 15 56 52.4**±.38	**36.16N**±.035	**139.85E**±.052	**49**			**40**	**0-4**
JMA	IX	28 15 56 52.1±.1	36.17N±.01	139.83E±.01	49±2	3.4			¶97ix4691
ISC	**IX**	**28 22 32 11.9**±.70	**35.28N**±.039	**137.93E**±.041	**14**±6.6			**28**	**0-2**
JMA	IX	28 22 32 12.0±.0	35.28N±.00	137.91E±.00	16±1	3.0			¶97ix4772
ISC	**IX**	**29 02 26 08**±1.8	**39.64N**±.077	**141.2E**±.14	**89**±19			**16**	**0-3**
JMA	IX	29 02 26 08.1±.1	39.64N±.01	141.19E±.01	89±1				¶97ix4834
JMA	**IX**	**29 08 24 19.0**±.4	**36.04N**±.03	**139.88E**±.02	**100**±3				¶97ix4911
ISC	**IX**	**30 13 27 37.2**±.89	**36.1N**±.17	**139.5E**±.20	**125**			**9**	**0-1**
JMA	IX	30 13 27 37.2±.2	36.15N±.02	139.55E±.02	125±2				¶97ix5237
ISC	**IX**	**30 18 45 01.9**±.78	**36.64N**±.060	**139.45E**±.062	**12**±8.9			**12**	**0-1**
JMA	IX	30 18 45 02.1±.0	36.63N±.00	139.45E±.00	12±1	3.0			¶97ix5291
ISC	**IX**	**30 20 51 17**±4.5	**39.4N**±.11	**141.5E**±.36	**77**±47			**9**	**0-1**
JMA	IX	30 20 51 16.7±.1	39.43N±.00	141.47E±.01	76±1	2.1			¶97ix5309
JMA	**X**	**01 00 21 10.3**±.1	**39.25N**±.00	**141.14E**±.01	**78**±1	**1.3**			¶97x0001
ISC	**X**	**01 06 48 10.1**±.86	**39.17N**±.062	**141.7E**±.15	**75**±6.1	**3.5b**		**22**	**0-76**
EIDC	X	01 06 48 00.2	39.2N	142.8E	0	3.6b,3.9L			¶97x0043
NEIC	X	01 06 48 03.0	39.18N	142.66E	33				
JMA	X	01 06 48 10.6±.1	39.18N±.00	141.65E±.01	70±2	3.6			
NEIC	Less reliable solution.								
JMA	Nodal plane solution: N47, Score 94% NP1:ϕ_S332°,δ67°,λ−7°. NP2:ϕ_S64°,δ83°,λ−157°. Principle axes: T Plg11°,Azm195°; N Plg66°,Azm80°; P Plg22°,Azm289°.								
ISC	**X**	**01 10 30 01.0**±.61	**35.06N**±.061	**137.30E**±.078	**40**			**12**	**0-2**
JMA	X	01 10 30 00.9±.0	35.06N±.00	137.31E±.00	40±1	3.0			¶97x0071
JMA	**X**	**01 16 03 01.1**±.3	**39.51N**±.02	**140.10E**±.05	**191**				¶97x0116
ISC	**X**	**01 19 51 48**±1.3	**39.3N**±.22	**141.4E**±.60	**72**			**5**	**0-0**
JMA	X	01 19 51 47.8±.1	39.34N±.00	141.41E±.01	72±1	0.9			¶97x0146
ISC	Poorly determined								
ISC	**X**	**03 08 34 04.5**±.61	**39.07N**±.093	**141.0E**±.24	**130**			**13**	**0-2**
JMA	X	03 08 34 04.5±.1	39.08N±.01	140.99E±.01	130±1				¶97x0427
ISC	**X**	**03 18 55 49**±1.9	**38.9N**±.65	**140.5E**±.36	**144**			**5**	**1-1**
JMA	X	03 18 55 49.5±.4	38.93N±.03	140.48E±.02	144±4				¶97x0513
ISC	Poorly determined								
JMA	**X**	**05 15 01 26.2**±.3	**37.73N**±.02	**140.73E**±.03	**128**±2				¶97x0876
JMA	**X**	**05 22 06 20.3**±.1	**36.06N**±.01	**139.68E**±.01	**82**±1	**1.7**			¶97x0944
ISC	**X**	**06 04 12 08**±2.7	**38.0N**±.33	**139.3E**±.35	**163**			**9**	**1-2**
JMA	X	06 04 12 08.3±.2	37.88N±.03	139.29E±.03	163				¶97x0983
ISC	Poorly determined								
ISC	**X**	**07 16 17 50.5**±.73	**35.8N**±.14	**138.8E**±.33	**168**			**9**	**0-1**
JMA	X	07 16 17 50.6±.1	35.81N±.01	138.85E±.01	168±2				¶97x1276
ISC	**X**	**08 01 07 16**±2.5	**39.62N**±.072	**141.8E**±.23	**68**±24			**13**	**0-2**
JMA	X	08 01 07 15.8±.1	39.62N±.00	141.81E±.01	70±1	3.3			¶97x1332
JMA	**X**	**08 08 06 36.5**±.1	**36.09N**±.03	**139.87E**±.02	**108**				¶97x1373
ISC	**X**	**08 12 58 37**±2.9	**36.6N**±.39	**137.3E**±.40	**251**			**8**	**1-3**
JMA	X	08 12 58 38.2±.2	36.48N±.05	137.46E±.04	251				¶97x1420
ISC	**X**	**08 14 30 40**±1.2	**36.0N**±.11	**139.4E**±.24	**98**			**8**	**0-1**
JMA	X	08 14 30 40.2±.1	36.02N±.01	139.46E±.01	98±2				¶97x1429
JMA	**X**	**08 14 40 49.2**±.1	**36.15N**±.01	**139.54E**±.01	**131**±1				¶97x1431
ISC	**X**	**08 17 37 55**±1.1	**36.8N**±.18	**140.0E**±.21	**115**			**5**	**1-1**
JMA	X	08 17 37 55.7±.1	36.76N±.00	140.13E±.01	115±1				¶97x1447
ISC	**X**	**09 08 34 54**±4.5	**36.1N**±.12	**139.4E**±.22	**79**±49			**7**	**0-1**
JMA	X	09 08 34 55.4±.1	36.08N±.00	139.48E±.01	64±1	1.9			¶97x1559
ISC	**X**	**09 10 37 36**±2.6	**39.79N**±.091	**141.4E**±.32	**76**±27			**9**	**0-1**
JMA	X	09 10 37 36.2±.1	39.79N±.00	141.44E±.02	73±2	2.2			¶97x1571
ISC	**X**	**09 13 46 17**±1.6	**36.3N**±.23	**139.9E**±.23	**73**			**5**	**0-1**
JMA	X	09 13 46 17.7±.1	36.27N±.01	139.91E±.01	73±1	1.5			¶97x1589
ISC	Poorly determined								
JMA	**X**	**10 00 30 03.8**±.2	**36.10N**±.01	**139.82E**±.01	**73**±2	**1.7**			¶97x1669
ISC	**X**	**11 05 04 59**±1.5	**39.8N**±.18	**140.2E**±.36	**168**			**12**	**0-2**
JMA	X	11 05 04 59.5±.2	39.74N±.01	140.26E±.02	168±2				¶97x1851
JMA	**X**	**11 12 36 53.3**±.1	**36.07N**±.01	**139.67E**±.01	**84**±1	**1.9**			¶97x1896
JMA	**X**	**11 22 07 07.4**±.3	**39.50N**±.02	**140.05E**±.06	**173**				¶97x1945
ISC	**X**	**12 07 10 20**±2.9	**38.59N**±.087	**140.4E**±.19	**154**±31			**18**	**0-2**
JMA	X	12 07 10 22.1±.1	38.59N±.00	140.58E±.01	139±1				¶97x2002
JMA	**X**	**13 05 08 55.1**±.1	**36.77N**±.02	**139.57E**±.02	**145**±2				¶97x2163
ISC	**X**	**13 12 46 03**±4.3	**35.8N**±.17	**137.2E**±.29	**290**±38			**15**	**0-5**
JMA	X	13 12 46 05.6±.4	35.80N±.03	137.28E±.04	271±4				¶97x2221
ISC	**X**	**13 13 29 04**±2.8	**38.8N**±.27	**140.7E**±.85	**135**			**6**	**0-1**
JMA	X	13 13 29 04.4±.3	38.76N±.02	140.79E±.06	135±3				¶97x2230
ISC	**X**	**13 20 41 45**±2.2	**37.8N**±.11	**141.0E**±.30	**123**±24			**15**	**0-2**
JMA	X	13 20 41 45.1±.1	37.79N±.01	140.97E±.02	115±2				¶97x2282
ISC	**X**	**14 13 36 50**±2.1	**36.61N**±.095	**139.4E**±.29	**12**±16			**7**	**0-1**
JMA	X	14 13 36 50.8±.0	36.61N±.00	139.40E±.00	10±1	3.0			¶97x2414
ISC	Poorly determined								
JMA	**X**	**15 20 16 59.9**±.2	**37.19N**±.01	**140.98E**±.02	**87**±2	**1.6**			¶97x2705
ISC	**X**	**15 20 30 03**±2.4	**39.0N**±.16	**141.0E**±.61	**90**			**7**	**0-1**
JMA	X	15 20 30 03.7±.1	39.03N±.00	141.10E±.01	90±1	1.7			¶97x2709
ISC	**X**	**16 17 41 52**±3.2	**39.3N**±.10	**141.4E**±.35	**77**±34			**10**	**0-1**
JMA	X	16 17 41 52.4±.1	39.28N±.00	141.38E±.01	74±1	2.0			¶97x2863
ISC	**X**	**16 21 30 02**±1.8	**37.36N**±.071	**140.4E**±.12	**89**±21			**16**	**0-2**
JMA	X	16 21 30 02.0±.1	37.35N±.00	140.47E±.01	89±1	2.5			¶97x2881
ISC	**X**	**17 09 16 07**±3.4	**38.6N**±.13	**140.7E**±.56	**146**±35			**13**	**0-2**
JMA	X	17 09 16 07.3±.2	38.61N±.01	140.70E±.04	143±2				¶97x2953
ISC	**X**	**17 10 28 32**±1.6	**36.2N**±.25	**139.3E**±.23	**68**			**5**	**0-1**
JMA	X	17 10 28 31.8±.1	36.22N±.01	139.32E±.01	68±2	1.6			¶97x2961
ISC	Poorly determined								
ISC	**X**	**17 14 47 03**±2.2	**36.1N**±.10	**137.3E**±.13	**251**±23			**24**	**0-3**
JMA	X	17 14 47 03.1±.2	36.05N±.02	137.30E±.02	251±2				¶97x3007
JMA	**X**	**17 20 26 57.2**±.1	**36.04N**±.01	**139.93E**±.00	**65**±1	**1.6**			¶97x3056
ISC	**X**	**18 01 15 42**±1.4	**35.2N**±.24	**139.0E**±.27	**163**			**9**	**0-2**
JMA	X	18 01 15 42.6±.3	35.23N±.02	139.05E±.02	163±3				¶97x3083
ISC	**X**	**18 01 18 02**±3.8	**40.5N**±.20	**140.3E**±.79	**178**			**8**	**1-2**
JMA	X	18 01 18 02.8±.4	40.51N±.01	140.38E±.06	178±5				¶97x3084
ISC	**X**	**18 05 24 35**±3.5	**36.7N**±.12	**139.8E**±.17	**100**±43			**8**	**0-2**
JMA	X	18 05 24 34.9±.1	36.70N±.01	139.85E±.01	98±2				¶97x3103
JMA	**X**	**18 10 12 41.7**±.4	**36.75N**±.05	**138.63E**±.04	**135**				¶97x3136
ISC	**X**	**18 10 35 13**±6.0	**36.1N**±.15	**137.6E**±.22	**190**±57			**11**	**0-2**
JMA	X	18 10 35 09.1±.4	36.16N±.03	137.65E±.03	227±3				¶97x3142
ISC	**X**	**18 15 59 53**±3.9	**39.1N**±.12	**140.8E**±.23	**139**±41			**15**	**0-2**
JMA	X	18 15 59 52.8±.1	39.08N±.01	140.79E±.02	140±2				¶97x3191
ISC	**X**	**18 19 11 31**±1.6	**36.0N**±.21	**139.4E**±.56	**87**			**6**	**0-1**
JMA	X	18 19 11 31.1±.2	36.02N±.01	139.40E±.01	87±2	1.7			¶97x3217
ISC	Poorly determined								
ISC	**X**	**18 23 20 16**±2.5	**39.81N**±.086	**141.8E**±.22	**58**±25			**12**	**0-1**
JMA	X	18 23 20 16.5±.1	39.80N±.00	141.81E±.01	55±1	3.5			¶97x3252
ISC	**X**	**19 08 22 47**±1.7	**36.0N**±.26	**139.7E**±.24	**84**			**5**	**0-1**
JMA	X	19 08 22 47.1±.1	36.04N±.01	139.68E±.01	84±1	1.5			¶97x3314
JMA	**X**	**19 13 21 03.2**±.1	**36.58N**±.01	**139.81E**±.01	**95**±2				¶97x3354
ISC	**X**	**19 16 25 36**±2.3	**36.1N**±.26	**137.3E**±.48	**274**			**13**	**1-5**
JMA	X	19 16 25 36.5±.3	36.14N±.03	137.35E±.04	274±3				¶97x3367
JMA	**X**	**20 04 16 41.6**±.1	**36.20N**±.01	**139.41E**±.01	**72**±1	**1.3**			¶97x3434
JMA	**X**	**20 12 04 47.3**±.4	**39.78N**±.02	**141.91E**±.04	**107**±4				¶97x3493
ISC	**X**	**20 12 33 37.4**±.76	**36.32N**±.099	**139.7E**±.15	**129**			**13**	**0-2**
JMA	X	20 12 33 37.6±.1	36.32N±.01	139.70E±.01	129±1				¶97x3497
ISC	**X**	**20 13 51 53**±5.5	**36.2N**±.17	**137.1E**±.33	**291**±49			**11**	**0-3**
JMA	X	20 13 51 55.0±.4	36.18N±.03	137.16E±.03	268±3				¶97x3510
ISC	**X**	**20 17 43 41**±1.6	**39.1N**±.20	**141.5E**±.45	**68**			**4**	**0-1**
JMA	X	20 17 43 40.7±.0	39.07N±.00	141.47E±.00	68±	1.3			¶97x3535
ISC	Poorly determined								
ISC	**X**	**20 19 44 17**±2.0	**38.11N**±.072	**140.8E**±.19	**86**±24			**13**	**0-2**
JMA	X	20 19 44 17.2±.0	38.10N±.00	140.78E±.01	86±1	2.2			¶97x3552
JMA	**X**	**20 22 52 09.0**±.1	**39.14N**±.00	**141.14E**±.02	**79**±1	**1.4**			¶97x3567
ISC	**X**	**21 09 50 04**±1.1	**35.41N**±.057	**137.35E**±.078	**56**±17			**17**	**0-1**
JMA	X	21 09 50 03.5±.0	35.40N±.00	137.35E±.00	56±1	3.2			¶97x3635
ISC	**X**	**21 10 55 24.9**±.47	**35.05N**±.048	**138.18E**±.061	**42**±4.9	**4.1b**,3.8s		**41**	**0-93**
EIDC	X	21 10 55 20.4	35.0N	138.1E	0	4.1b,3.9s			¶97x3640
BJI	X	21 10 55 23.4	35.09N	138.35E	39	4.5b			
NEIC	X	21 10 55 23.6	34.96N	138.12E	33	4.0b			
JMA	X	21 10 55 25.5±.0	35.11N±.00	138.23E±.00	33±1	4.3			
NEIC	Felt I=II J1 in many parts of Shizuoka Prefecture. Also felt II J1 in southeastern Aichi, southern Kanagawa and southern Nagano Prefectures.								
JMA	Nodal plane solution: N115, Score 93%. NP1:ϕ_S312°,δ17°,λ−159°. NP2:ϕ_S201°,δ84°,λ−73°. Principle axes: T Plg37°,Azm277°; N Plg16°,Azm19°; P Plg49°,Azm128°.								
JMA	**X**	**21 11 01 16.5**±.2	**36.83N**±.01	**138.66E**±.02	**172**±2				¶97x3645
ISC	**X**	**22 00 16 47.1**±.74	**36.2N**±.18	**138.7E**±.19	**146**			**9**	**0-2**
JMA	X	22 00 16 47.4±.1	36.15N±.01	138.68E±.01	146±1				¶97x3725
ISC	**X**	**22 07 33 34.1**±.35	**36.16N**±.061	**137.1E**±.10	**276**±3.7	**3.5b**		**35**	**0-93**
NEIC	X	22 07 33 33.5	36.12N	136.97E	274	3.8b			¶97x3767
JMA	X	22 07 33 34.6±.1	36.19N±.01	137.11E±.01	271±1				
EIDC	X	22 07 33 34.8	36.1N	137.1E	270	3.3b			
NEIC	Less reliable solution.								
ISC	**X**	**23 02 26 36**±1.9	**37.48N**±.072	**140.1E**±.10	**96**±25			**16**	**0-2**
JMA	X	23 02 26 35.0±.1	37.46N±.01	140.20E±.01	105±2				¶97x3912
ISC	**X**	**23 03 18 57**±4.7	**37.5N**±.24	**140.2E**±.51	**141**±54			**7**	**0-2**
JMA	X	23 03 18 57.4±.3	37.48N±.01	140.16E±.02	138±3				¶97x3919
ISC	**X**	**23 11 19 43**±5.7	**36.2N**±.53	**139.9E**±.40	**106**±51			**6**	**0-2**
JMA	X	23 11 19 42.7±.2	36.15N±.01	139.91E±.01	104±2				¶97x3981
ISC	Poorly determined								
JMA	**X**	**23 15 10 52.5**±.1	**36.07N**±.01	**139.52E**±.01	**88**±1	**1.7**			¶97x4019
ISC	**X**	**23 16 04 29**±5.3	**37.1N**±.22	**140.8E**±.42	**115**±47			**7**	**0-1**
JMA	X	23 16 04 30.2±.2	37.03N±.01	140.78E±.02	100±2				¶97x4022
JMA	**X**	**24 07 10 09.5**±.4	**39.31N**±.02	**140.52E**±.05	**127**±4				¶97x4118
ISC	**X**	**24 15 24 56**±4.5	**36.1N**±.31	**138.0E**±.38	**220**±47			**6**	**0-3**
JMA	X	24 15 24 57.9±.3	36.02N±.03	138.20E±.03	211±3				¶97x4188
ISC	**X**	**24 18 01 34.7**±.99	**36.2N**±.12	**139.7E**±.18	**128**			**11**	**0-2**
JMA	X	24 18 01 34.9±.2	36.19N±.01	139.65E±.01	128±2				¶97x4207
JMA	**X**	**25 22 30 25.0**±.1	**36.33N**±.01	**139.77E**±.01	**70**±1	**1.5**			¶97x4380
ISC	**X**	**26 19 06 43.6**±.23	**39.30N**±.024	**140.48E**±.030	**125**±2.3	**5.2b**		**409**	**0-163**
BJI	X	26 19 06 43.1	39.39N	140.54E	137	5.3b			¶97x4513
EIDC	X	26 19 06 43.8	39.3N	140.5E	115	4.9b			
MOS	X	26 19 06 43.9	39.5N	140.5E	120	5.2b			
JMA	X	26 19 06 44.3±.1	39.32N±.00	140.62E±.01	120±2	5.1			
NEIC	X	26 19 06 44.4	39.30N	140.46E	134	5.2b			
HRVD	X	26 19 06 46.4±.6	39.27N	140.50E	126±2.5				
JMA	Nodal plane solution: N144, Score 99%. NP1:ϕ_S136°,δ65°,λ153°. NP2:ϕ_S238°,δ65°,λ28°. Principle axes: T Plg37°,Azm97°; N Plg53°,Azm277°; P Plg0°,Azm7°.								
JMA	Felt I=III J1								
NEIC	Mw5.6(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c20; Mantle waves: s3,c3; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}1.85±.16; $M_{\theta\theta}$−3.03±.29; $M_{\phi\phi}$1.18±.35; $M_{r\theta}$0.14±.15; $M_{r\phi}$−0.55±.18; $M_{\theta\phi}$−0.40±.23. Principal Axes: T 2.18,Plg60°,Azm83°; N 0.89,Plg30°,Azm265°; P −3.07,Plg1°,Azm175°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S238°,δ51°,λ50°. NP2:ϕ_S111°,δ53°,λ129°.								
JMA	**X**	**27 00 15 25.4**±.2	**37.35N**±.01	**140.43E**±.03	**84**±2	**1.8**			¶97x4540
ISC	**X**	**27 01 07 36**±3.8	**36.8N**±.12	**139.5E**±.19	**158**±43			**13**	**0-2**
JMA	X	27 01 07 37.2±.1	36.82N±.01	139.52E±.01	150±2				¶97x4546
ISC	**X**	**27 08 05 49**±1.0	**35.8N**±.29	**138.6E**±.31	**155**			**7**	**0-1**
JMA	X	27 08 05 49.0±.3	35.84N±.03	138.68E±.02	155±3				¶97x4586
ISC	**X**	**27 08 24 01**±4.5	**39.3N**±.42	**140.7E**±.89	**120**			**5**	**1-1**
JMA	X	27 08 24 01.4±.1	39.29N±.01	140.67E±.02	120±2				¶97x4589
ISC	Poorly determined								
ISC	**X**	**27 15 10 39**±3.0	**39.0N**±.10	**141.0E**±.36	**93**±35			**10**	**0-2**
JMA	X	27 15 10 39.6±.1	38.96N±.00	140.98E±.01	92±1				¶97x4623
ISC	**X**	**27 20 20 31.3**±.82	**38.32N**±.057	**140.55E**±.069	**13**±8.7			**11**	**0-3**
JMA	X	27 20 20 31.6±.0	38.32N±.00	140.55E±.00	14±1	3.4			¶97x4656
ISC	**X**	**27 21 52 01**±1.3	**36.1N**±.19	**139.3E**±.47	**68**			**4**	**0-1**
JMA	X	27 21 52 00.8±.1	36.13N±.00	139.31E±.01	68±1	1.5			¶97x4663
ISC	Poorly determined								
ISC	**X**	**27 23 57 29**±1.3	**36.1N**±.49	**139.3E**±.43	**135**			**4**	**0-1**
JMA	X	27 23 57 29.2±.3	35.96N±.04	139.45E±.03	135±3				¶97x4673
ISC	Poorly determined								
JMA	**X**	**28 11 21 45.2**±.1	**36.29N**±.01	**139.72E**±.01	**72**±2	**1.4**			¶97x4753
ISC	**X**	**28 12 24 46**±1.3	**35.2N**±.42	**137.0E**±.41	**303**			**8**	**0-3**
JMA	X	28 12 24 45.8±.3	35.31N±.03	137.07E±.02	303±3				¶97x4761
JMA	**X**	**28 13 51 46.1**±.1	**36.66N**±.01	**139.98E**±.01	**120**±2				¶97x4767
JMA	**X**	**28 20 34 58.7**±.1	**36.12N**±.01	**139.36E**±.01	**78**±1	**1.2**			¶97x4811
JMA	**X**	**29 01 25 28.0**±.2	**39.40N**±.01	**141.40E**±.03	**109**±2				¶97x4840
ISC	**X**	**29 10 11 05**±4.3	**36.1N**±.12	**139.3E**±.30	**100**±38			**8**	**0-1**
JMA	X	29 10 11 05.1±.1	36.04N±.01	139.41E±.01	92±2				¶97x4892
ISC	**X**	**30 02 30 16**±5.1	**36.5N**±.12	**139.0E**±.30	**139**±51			**9**	**0-1**
JMA	X	30 02 30 15.8±.1	36.53N±.00	139.07E±.01	140±1				¶97x4979
ISC	**X**	**30 08 47 29**±2.2	**37.63N**±.090	**140.7E**±.16	**128**±24			**17**	**0-2**
JMA	X	30 08 47 29.5±.2	37.62N±.01	140.78E±.02	119±2				¶97x5015
ISC	**X**	**30 09 10 26.7**±.81	**36.67N**±.054	**139.46E**±.073	**11**±9.3			**10**	**0-1**
JMA	X	30 09 10 27.0±.0	36.66N±.00	139.46E±.00	10±1	2.9			¶97x5016

| Agency | | Origin Time | | |

ISC	**XI**	**29 02 45 09.2**±.85	**39.05N**±.078	**141.6E**±.22	**101**			**13**	**0-2**
JMA	XI	29 02 45 09.1±.1	39.05N±.00	141.60E±.01	101±1			**¶97xi5180**	
JMA	**XI**	**29 15 14 12.3**±.1	**36.28N**±.04	**139.51E**±.04	**136**			**¶97xi5285**	
ISC	**XI**	**29 21 36 56**±2.4	**36.6N**±.35	**139.2E**±.32	**111**			**5**	**0-1**
JMA	XI	29 21 36 55.9±.2	36.58N±.01	139.27E±.02	111±2			**¶97xi5325**	
ISC	Poorly determined								
ISC	**XI**	**29 22 56 52.9**±.81	**35.76N**±.057	**137.11E**±.061	**8**±11			**11**	**0-1**
JMA	XI	29 22 56 53.3±.0	35.75N±.00	137.12E±.00	12±1	2.9		**¶97xi5336**	
JMA	**XI**	**30 04 38 29.8**±.2	**36.29N**±.02	**138.92E**±.02	**132**±2			**¶97xi5363**	
ISC	**XI**	**30 05 33 34**±2.3	**38.1N**±.10	**140.1E**±.15	**134**±25			**14**	**0-2**
JMA	XI	30 05 33 34.7±.1	38.14N±.01	140.20E±.01	130±2			**¶97xi5369**	
ISC	**XI**	**30 06 35 33**±2.5	**39.52N**±.084	**141.2E**±.22	**87**±25			**10**	**0-2**
JMA	XI	30 06 35 33.5±.1	39.53N±.00	141.20E±.01	86±1	2.2		**¶97xi5375**	
JMA	**XI**	**30 22 33 03.6**±.3	**36.26N**±.02	**139.65E**±.02	**132**±3			**¶97xi5474**	
ISC	**XII**	**01 06 45 37**±6.5	**36.1N**±.14	**139.7E**±.46	**133**±53			**9**	**0-1**
JMA	XII	01 06 45 40.0±.1	36.08N±.01	139.67E±.01	107±1			**¶97xii0046**	
JMA	**XII**	**01 12 17 06.6**±.2	**36.41N**±.01	**139.78E**±.02	**93**±2			**¶97xii0081**	
ISC	**XII**	**01 15 13 43**±6.3	**35.6N**±.30	**137.9E**±.26	**267**±60			**9**	**0-3**
JMA	XII	01 15 13 45.4±.2	35.55N±.03	137.92E±.02	246±2			**¶97xii0103**	
ISC	**XII**	**02 07 02 09**±1.7	**39.7N**±.20	**141.8E**±.28	**67**			**6**	**0-1**
JMA	XII	02 07 02 08.5±.1	39.70N±.00	141.82E±.01	67±1	2.0		**¶97xii0200**	
ISC	**XII**	**02 19 34 24**±1.4	**36.3N**±.18	**139.9E**±.19	**75**			**6**	**0-1**
JMA	XII	02 19 34 23.6±.1	36.31N±.00	139.91E±.00	75±1	1.8		**¶97xii0301**	
ISC	**XII**	**03 08 59 04**±1.6	**36.19N**±.079	**139.8E**±.11	**50**±32			**12**	**0-1**
JMA	XII	03 08 59 04.0±.0	36.16N±.00	139.85E±.00	51±1	2.8		**¶97xii0392**	
ISC	**XII**	**03 09 14 38**±2.8	**37.9N**±.13	**139.3E**±.23	**147**±33			**11**	**1-2**
JMA	XII	03 09 14 37.2±.3	37.87N±.01	139.38E±.02	163±3			**¶97xii0395**	
ISC	**XII**	**03 15 09 26**±9.8	**39.0N**±.16	**141.7E**±.76	**67**±80			**6**	**0-1**
JMA	XII	03 15 09 25.6±.1	39.03N±.00	141.77E±.02	64±1	1.7		**¶97xii0450**	
ISC	Poorly determined								
ISC	**XII**	**04 02 41 46**±2.7	**38.3N**±.10	**140.7E**±.17	**123**±29			**12**	**0-2**
JMA	XII	04 02 41 47.6±.1	38.30N±.00	140.84E±.01	102±1			**¶97xii0542**	
ISC	**XII**	**04 08 25 28.0**±.70	**37.2N**±.11	**140.0E**±.12	**100**			**9**	**0-1**
JMA	XII	04 08 25 28.4±.1	37.09N±.01	140.13E±.01	100±1			**¶97xii0580**	
ISC	**XII**	**04 10 55 29**±1.1	**36.5N**±.20	**139.6E**±.21	**91**			**5**	**0-1**
JMA	XII	04 10 55 29.3±.1	36.50N±.01	139.61E±.01	91±1	1.4		**¶97xii0602**	
ISC	**XII**	**04 11 32 32**±1.7	**36.5N**±.52	**138.7E**±.44	**141**			**4**	**0-1**
JMA	XII	04 11 32 32.2±.3	36.40N±.02	138.72E±.02	141±3			**¶97xii0605**	
ISC	Poorly determined								
ISC	**XII**	**04 20 35 24**±5.6	**37.6N**±.19	**139.1E**±.23	**200**±60			**11**	**0-3**
JMA	XII	04 20 35 25.2±.3	37.58N±.02	139.17E±.03	185±4			**¶97xii0686**	
ISC	**XII**	**05 08 15 40.5**±.89	**39.5N**±.12	**141.3E**±.26	**85**			**8**	**0-1**
JMA	XII	05 08 15 40.4±.1	39.52N±.01	141.26E±.02	85±2	1.7		**¶97xii0810**	
ISC	**XII**	**06 00 00 52**±1.3	**36.3N**±.27	**137.6E**±.27	**247**			**9**	**0-3**
JMA	XII	06 00 00 52.0±.4	36.31N±.04	137.59E±.03	247±4			**¶97xii1164**	
ISC	**XII**	**06 08 40 43**±2.5	**38.39N**±.081	**140.6E**±.12	**118**±27			**17**	**0-2**
JMA	XII	06 08 40 44.3±.1	38.42N±.00	140.65E±.01	103±1			**¶97xii1312**	
JMA	**XII**	**06 15 04 29.8**±.1	**36.08N**±.01	**139.98E**±.01	**97**±1			**¶97xii1453**	
ISC	**XII**	**06 21 11 55**±1.1	**37.0N**±.16	**140.7E**±.53	**93**			**5**	**0-1**
JMA	XII	06 21 11 55.4±.2	37.03N±.01	140.75E±.02	93±2			**¶97xii1531**	
ISC	**XII**	**07 00 22 07.6**±.73	**35.76N**±.050	**137.56E**±.066	**9**±11			**11**	**0-1**
JMA	XII	07 00 22 08.1±.0	35.75N±.00	137.55E±.00	11±1	3.1		**¶97xii1564**	
JMA	**XII**	**07 02 58 32.8**±.2	**36.18N**±.02	**139.70E**±.02	**128**±2			**¶97xii1594**	
ISC	**XII**	**07 07 50 14**±2.2	**37.0N**±.15	**141.0E**±.52	**71**			**7**	**0-1**
JMA	XII	07 07 50 14.2±.2	37.04N±.01	140.92E±.02	71±2	2.1		**¶97xii1653**	
ISC	**XII**	**07 09 08 31**±1.8	**39.5N**±.16	**141.1E**±.49	**95**			**8**	**0-1**
JMA	XII	07 09 08 31.1±.1	39.53N±.00	141.08E±.01	95±1			**¶97xii1666**	
ISC	**XII**	**08 09 34 20**±5.4	**39.0N**±.13	**140.9E**±.22	**101**±52			**9**	**0-1**
JMA	XII	08 09 34 20.3±.1	39.05N±.00	140.88E±.01	101±1			**¶97xii1903**	
ISC	**XII**	**08 13 09 02.1**±.82	**35.76N**±.056	**137.11E**±.057	**7**±11			**12**	**0-1**
JMA	XII	08 13 09 02.5±.0	35.75N±.00	137.12E±.00	10±1	2.8		**¶97xii1929**	
ISC	**XII**	**08 16 08 29.7**±.97	**36.4N**±.30	**138.9E**±.18	**138**			**8**	**0-1**
JMA	XII	08 16 08 30.2±.2	36.36N±.01	138.94E±.01	138±2			**¶97xii1958**	
JMA	**XII**	**09 00 42 30.1**±.1	**36.62N**±.01	**139.91E**±.01	**122**±1			**¶97xii2057**	
JMA	**XII**	**09 05 25 57.4**±.2	**36.03N**±.01	**139.94E**±.01	**100**±2			**¶97xii2109**	
ISC	**XII**	**09 13 56 11**±2.7	**37.4N**±.13	**140.9E**±.34	**73**±31			**10**	**0-2**
JMA	XII	09 13 56 11.1±.1	37.41N±.00	140.90E±.01	72±1	2.3		**¶97xii2181**	
ISC	**XII**	**10 05 53 03**±2.9	**39.22N**±.089	**141.5E**±.21	**76**±32			**10**	**0-1**
JMA	XII	10 05 53 02.8±.1	39.22N±.00	141.51E±.01	75±1	2.5		**¶97xii2302**	
ISC	**XII**	**10 09 13 01**±2.3	**37.89N**±.088	**140.4E**±.22	**115**±28			**12**	**0-2**
JMA	XII	10 09 13 01.4±.1	37.89N±.00	140.37E±.01	115±1			**¶97xii2325**	
ISC	**XII**	**10 12 39 26**±1.3	**35.4N**±.31	**137.3E**±.38	**299**			**9**	**1-5**
JMA	XII	10 12 39 26.1±.1	35.27N±.04	137.38E±.04	299			**¶97xii2354**	
ISC	**XII**	**10 16 57 48**±3.0	**35.5N**±.13	**137.4E**±.17	**66**±38			**9**	**0-1**
JMA	XII	10 16 57 48.2±.1	35.52N±.01	137.40E±.01	64±2	1.9		**¶97xii2394**	
JMA	**XII**	**10 18 53 25.4**±.1	**36.53N**±.01	**139.92E**±.01	**90**±1	**1.4**		**¶97xii2408**	
JMA	**XII**	**10 21 37 57.5**±.3	**36.15N**±.01	**139.99E**±.02	**60**±3	**1.5**		**¶97xii2432**	
ISC	**XII**	**11 01 04 33**±1.1	**35.8N**±.19	**139.0E**±.28	**127**			**8**	**0-2**
JMA	XII	11 01 04 33.1±.3	35.83N±.01	139.05E±.02	127±2			**¶97xii2460**	
ISC	**XII**	**11 12 41 25**±1.6	**39.2N**±.22	**141.2E**±.66	**81**			**5**	**0-1**
JMA	XII	11 12 41 24.9±.2	39.24N±.01	141.31E±.01	81±2	1.3		**¶97xii2565**	
ISC	Poorly determined								
ISC	**XII**	**11 12 50 29**±4.6	**38.1N**±.18	**140.8E**±.54	**131**±44			**8**	**0-2**
JMA	XII	11 12 50 30.0±.1	38.11N±.01	140.86E±.02	123±1			**¶97xii2568**	
ISC	**XII**	**11 18 33 57**±2.5	**39.39N**±.086	**141.0E**±.14	**96**±27			**15**	**0-2**
JMA	XII	11 18 33 56.7±.1	39.39N±.00	141.01E±.00	95±1			**¶97xii2622**	
ISC	**XII**	**11 18 49 54**±1.1	**39.4N**±.15	**141.0E**±.25	**95**			**7**	**0-1**
JMA	XII	11 18 49 54.4±.1	39.38N±.01	141.05E±.01	95±1			**¶97xii2624**	
JMA	**XII**	**12 13 23 55.2**±.1	**37.48N**±.01	**140.15E**±.01	**110**±2			**¶97xii2754**	
ISC	**XII**	**12 14 06 47.7**±.72	**36.3N**±.14	**138.6E**±.25	**157**			**10**	**0-1**
JMA	XII	12 14 06 47.9±.1	36.30N±.01	138.66E±.01	157±1			**¶97xii2760**	
ISC	**XII**	**13 00 07 41.5**±.40	**36.05N**±.081	**137.02E**±.098	**281**±4.1	**3.6b**		**27**	**0-93**
NEIC	XII	13 00 07 41.3	36.02N	137.05E	281	3.9b		**¶97xii2843**	
JMA	XII	13 00 07 42.0±.2	36.09N±.02	137.01E±.02	277±2				
EIDC	XII	13 00 07 42.4±.94	36.1N	137.0E	276±6.9	3.2b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=31.2km semi−minor=18.8km azimuth=105								
ISC	**XII**	**13 07 57 08.5**±.66	**38.45N**±.046	**140.76E**±.068	**8**±8.5			**12**	**0-3**
JMA	XII	13 07 57 08.9±.0	38.44N±.00	140.75E±.00	13±1	3.7		**¶97xii2914**	
JMA	Felt I=III J1								
JMA	Nodal plane solution: N38, Score 92%. NP1:ϕ_S150°,δ33°,λ37°. NP2:ϕ_S28°,δ71°,λ119°. Principle axes: T Plg56°,Azm333°; N Plg26°,Azm198°; P Plg21°,Azm97°.								
ISC	**XII**	**13 08 04 05.6**±.98	**38.44N**±.057	**140.75E**±.079	**13**±10			**11**	**0-1**
JMA	XII	13 08 04 05.9±.0	38.44N±.00	140.74E±.00	13±1	3.0		**¶97xii2915**	
ISC	**XII**	**13 12 12 22**±3.3	**36.8N**±.19	**139.5E**±.19	**124**±37			**8**	**0-1**
JMA	XII	13 12 12 22.3±.1	36.74N±.01	139.53E±.01	125±2			**¶97xii2942**	
JMA	**XII**	**13 15 24 38.2**±.2	**36.06N**±.02	**139.79E**±.02	**107**±2			**¶97xii2966**	
ISC	**XII**	**13 20 25 24**±1.2	**37.2N**±.15	**140.7E**±.42	**77**			**5**	**0-2**
JMA	XII	13 20 25 24.0±.1	37.17N±.01	140.64E±.01	77±2	1.6		**¶97xii3012**	
ISC	**XII**	**14 03 32 28**±1.8	**39.44N**±.060	**141.6E**±.16	**83**±19			**17**	**0-2**
JMA	XII	14 03 32 28.2±.1	39.44N±.00	141.56E±.01	82±1	2.9		**¶97xii3076**	
ISC	**XII**	**14 12 20 28**±1.1	**39.2N**±.23	**140.7E**±.32	**137**			**8**	**0-1**
JMA	XII	14 12 20 28.3±.1	39.16N±.01	140.74E±.01	137±1			**¶97xii3143**	
ISC	**XII**	**14 21 48 11.2**±.95	**36.8N**±.21	**139.8E**±.28	**106**			**6**	**0-1**
JMA	XII	14 21 48 11.4±.1	36.77N±.01	139.83E±.01	106±1			**¶97xii3202**	
JMA	**XII**	**15 10 54 14.3**±.1	**36.48N**±.01	**139.57E**±.01	**110**±1			**¶97xii3274**	
ISC	**XII**	**15 15 27 55**±1.3	**36.3N**±.34	**139.7E**±.33	**125**			**5**	**0-1**
JMA	XII	15 15 27 54.6±.1	36.26N±.01	139.71E±.01	125±1			**¶97xii3302**	
ISC	Poorly determined								
ISC	**XII**	**16 00 25 15.7**±.53	**39.68N**±.057	**140.9E**±.11	**117**±5.8	**3.3b**		**23**	**0-89**
EIDC	XII	16 00 24 52.7±1.93	41.4N	135.2E	0	3.5b,3.6L		**¶97xii3362**	
JMA	XII	16 00 25 16.5±.1	39.69N±.00	140.84E±.01	106±1	3.2			
EIDC	Error ellipse is semi−major=90.6km semi−minor=28.5km azimuth=103								
ISC	**XII**	**16 09 10 11**±1.6	**36.0N**±.43	**138.9E**±.39	**133**			**5**	**0-1**
JMA	XII	16 09 10 10.8±.2	35.95N±.02	138.96E±.01	133±2			**¶97xii3421**	
ISC	Poorly determined								
ISC	**XII**	**16 21 35 04**±1.9	**40.4N**±.16	**140.4E**±.39	**162**			**10**	**0-2**
JMA	XII	16 21 35 04.4±.2	40.40N±.01	140.50E±.02	162±3			**¶97xii3510**	
ISC	**XII**	**17 04 38 51**±5.7	**36.6N**±.20	**139.8E**±.23	**125**±64			**6**	**0-1**
JMA	XII	17 04 38 51.7±.1	36.50N±.01	139.84E±.01	119±1			**¶97xii3550**	
JMA	**XII**	**17 16 42 55.1**±.1	**36.33N**±.01	**139.96E**±.01	**77**±1	**1.4**		**¶97xii3632**	
ISC	**XII**	**17 16 45 42.0**±.91	**36.9N**±.23	**140.0E**±.31	**127**			**6**	**1-1**
JMA	XII	17 16 45 42.0±.1	36.86N±.01	140.04E±.01	127±1			**¶97xii3635**	
ISC	**XII**	**17 17 52 34.3**±.82	**39.1N**±.12	**141.3E**±.20	**72**			**7**	**0-1**
JMA	XII	17 17 52 34.4±.1	39.14N±.00	141.34E±.01	72±1	1.4		**¶97xii3641**	
ISC	**XII**	**17 19 37 06.6**±.76	**35.88N**±.047	**137.63E**±.062	**8**±10			**12**	**0-1**
JMA	XII	17 19 37 07.1±.0	35.88N±.00	137.63E±.00	11±1	3.0		**¶97xii3654**	
JMA	**XII**	**18 06 34 07.2**±.1	**36.33N**±.01	**139.97E**±.01	**75**±2	**1.8**		**¶97xii3727**	
ISC	**XII**	**18 22 48 49**±1.7	**40.3N**±.20	**140.9E**±.23	**108**			**9**	**0-1**
JMA	XII	18 22 48 49.1±.2	40.26N±.01	140.95E±.02	108±2			**¶97xii3848**	
JMA	**XII**	**19 03 38 22.6**±.2	**36.29N**±.04	**139.92E**±.02	**63**	**1.5**		**¶97xii3886**	
JMA	**XII**	**19 16 55 02.4**±.4	**36.17N**±.02	**139.89E**±.02	**77**±3	**1.1**		**¶97xii3996**	
ISC	**XII**	**19 20 46 48**±2.4	**36.5N**±.11	**139.4E**±.16	**125**±27			**11**	**0-2**
JMA	XII	19 20 46 49.2±.1	36.49N±.01	139.44E±.01	112±1			**¶97xii4036**	
JMA	**XII**	**21 10 44 57.8**±.3	**39.10N**±.01	**141.68E**±.04	**92**±3			**¶97xii4243**	
ISC	**XII**	**21 17 02 04**±1.2	**35.9N**±.22	**137.3E**±.18	**264**±10	3.0b		**15**	**0-59**
EIDC	XII	21 17 02 03.8±7.97	36.2N	136.8E	258±65.0	2.9b		**¶97xii4281**	
JMA	XII	21 17 02 04.9±.2	35.91N±.02	137.30E±.01	257±2				
EIDC	Error ellipse is semi−major=298.9km semi−minor=46.4km azimuth=100								
ISC	**XII**	**21 21 52 37**±6.3	**39.6N**±.15	**141.2E**±.22	**87**±56			**9**	**0-1**
JMA	XII	21 21 52 37.5±.1	39.58N±.00	141.24E±.01	83±1	1.7		**¶97xii4311**	
ISC	**XII**	**22 07 19 27**±1.2	**39.4N**±.20	**141.0E**±.24	**95**			**7**	**0-1**
JMA	XII	22 07 19 27.0±.1	39.38N±.01	141.03E±.01	95±1			**¶97xii4377**	
ISC	**XII**	**22 10 59 42**±5.8	**36.9N**±.50	**137.4E**±.84	**267**			**7**	**1-3**
JMA	XII	22 10 59 41.8±.4	36.86N±.05	137.30E±.06	267			**¶97xii4410**	
ISC	**XII**	**22 17 47 00**±1.1	**36.1N**±.25	**139.4E**±.27	**109**			**5**	**0-1**
JMA	XII	22 17 47 00.1±.1	36.09N±.01	139.37E±.01	109±1			**¶97xii4461**	
ISC	**XII**	**22 20 19 50**±5.5	**35.6N**±.42	**139.0E**±.19	**19**			**6**	**0-1**
JMA	XII	22 20 19 49.5±.0	35.54N±.00	139.00E±.00	19±1	2.9		**¶97xii4482**	
ISC	Poorly determined								
ISC	**XII**	**23 06 48 16**±1.6	**36.07N**±.067	**139.7E**±.16	**66**±26			**12**	**0-2**
JMA	XII	23 06 48 16.6±.1	36.06N±.00	139.68E±.01	62±1	2.9		**¶97xii4557**	
ISC	**XII**	**23 09 10 06**±2.3	**39.34N**±.078	**141.3E**±.15	**86**±25			**14**	**0-2**
JMA	XII	23 09 10 05.7±.1	39.34N±.00	141.27E±.01	84±1	2.4		**¶97xii4575**	
ISC	**XII**	**23 13 03 59**±3.7	**36.35N**±.082	**139.2E**±.22	**96**±37			**10**	**0-1**
JMA	XII	23 13 03 58.6±.1	36.36N±.01	139.23E±.01	95±1			**¶97xii4600**	
ISC	**XII**	**23 14 31 47**±5.6	**36.0N**±.12	**139.0E**±.28	**123**±54			**9**	**0-1**
JMA	XII	23 14 31 47.3±.1	36.03N±.01	139.05E±.01	122±1			**¶97xii4615**	
ISC	**XII**	**23 16 30 37**±1.1	**36.3N**±.20	**137.7E**±.24	**232**			**10**	**0-2**
JMA	XII	23 16 30 37.4±.4	36.36N±.03	137.79E±.02	232±4			**¶97xii4627**	
ISC	**XII**	**23 19 31 33.6**±.88	**36.1N**±.10	**139.4E**±.17	**90**			**8**	**0-2**
JMA	XII	23 19 31 33.8±.1	36.06N±.01	139.42E±.01	90±1	2.4		**¶97xii4651**	
ISC	**XII**	**24 03 59 04.5**±.79	**38.29N**±.050	**140.86E**±.076	**12**±9.1			**11**	**0-1**
JMA	XII	24 03 59 04.9±.0	38.29N±.00	140.85E±.00	14±1	3.2		**¶97xii4698**	
ISC	**XII**	**24 04 08 53**±6.2	**39.4N**±.13	**141.1E**±.33	**98**±56			**8**	**0-1**
JMA	XII	24 04 08 54.0±.1	39.39N±.00	141.13E±.01	93±1			**¶97xii4700**	
ISC	**XII**	**24 14 19 53.8**±.87	**39.4N**±.12	**141.7E**±.25	**103**			**11**	**0-2**
JMA	XII	24 14 19 53.5±.2	39.41N±.01	141.72E±.02	103±2			**¶97xii4769**	
JMA	**XII**	**24 14 20 42.9**±.1	**36.51N**±.01	**139.83E**±.01	**90**±1	**1.4**		**¶97xii4770**	
ISC	**XII**	**24 17 34 53**±1.8	**39.6N**±.21	**141.4E**±.58	**67**			**6**	**0-1**
JMA	XII	24 17 34 52.9±.1	39.54N±.01	141.42E±.01	67±1			**¶97xii4792**	
ISC	**XII**	**25 02 08 01**±3.1	**37.1N**±.13	**140.6E**±.18	**84**±32			**10**	**0-2**
JMA	XII	25 02 08 01.1±.1	37.08N±.00	140.56E±.01	81±1	2.6		**¶97xii4853**	
ISC	**XII**	**25 05 55 23**±1.2	**39.3N**±.18	**141.5E**±.22	**72**			**7**	**0-1**
JMA	XII	25 05 55 23.0±.1	39.30N±.00	141.52E±.01	72±1	1.5		**¶97xii4875**	
JMA	**XII**	**25 12 34 47.0**±.2	**36.40N**±.05	**138.47E**±.04	**155**			**¶97xii4929**	
ISC	**XII**	**25 18 20 09.9**±.95	**39.2N**±.13	**141.4E**±.25	**73**			**7**	**0-1**
JMA	XII	25 18 20 10.0±.2	39.24N±.01	141.38E±.01	73±2	1.5		**¶97xii4969**	
ISC	**XII**	**26 03 42 40**±1.2	**39.8N**±.15	**141.7E**±.21	**67**			**9**	**0-1**
JMA	XII	26 03 42 39.9±.1	39.84N±.00	141.73E±.01	67±1	2.0		**¶97xii5037**	
ISC	**XII**	**26 05 59 52**±1.2	**40.1N**±.17	**140.0E**±.28	**144**			**6**	**0-2**
JMA	XII	26 05 59 52.3±.2	40.07N±.01	140.12E±.02	144±2			**¶97xii5063**	
ISC	**XII**	**26 21 58 01**±2.5	**39.7N**±.19	**140.3E**±.44	**171**			**10**	**0-2**
JMA	XII	26 21 58 01.0±.2	39.69N±.01	140.27E±.02	171±2			**¶97xii5201**	
ISC	**XII**	**27 04 16 02**±2.0	**40.0N**±.36	**141.4E**±.44	**85**			**6**	**0-1**
JMA	XII	27 04 16 02.0±.1	39.99N±.00	141.35E±.01	85±1	1.2		**¶97xii5241**	
ISC	Poorly determined								
JMA	**XII**	**27 06 45 58.9**±.2	**36.42N**±.01	**139.30E**±.01	**101**±2			**¶97xii5265**	
JMA	**XII**	**27 09 25 34.5**±.1	**37.63N**±.01	**140.55E**±.02	**99**±2			**¶97xii5274**	
ISC	**XII**	**27 12 29 16**±3.2	**38.56N**±.086	**140.9E**±.20	**83**±36			**9**	**0-1**
JMA	XII	27 12 29 16.3±.0	38.56N±.00	140.97E±.01	82±1	1.8		**¶97xii5288**	
ISC	**XII**	**27 14 25 42**±5.5	**36.2N**±.12	**139.3E**±.30	**100**±47			**8**	**0-1**
JMA	XII	27 14 25 43.5±.1	36.18N±.01	139.28E±.01	87±1	2.2		**¶97xii5302**	
ISC	**XII**	**28 03 43 13**±1.4	**36.5N**±.11	**139.5E**±.45	**92**			**7**	**0-1**
JMA	XII	28 03 43 13.1±.1	36.46N±.01	139.43E±.01	92±1			**¶97xii5389**	
JMA	**XII**	**28 04 15 57.0**±.1	**36.25N**±.00	**139.86E**±.01	**62**±1	**1.4**		**¶97xii5393**	
ISC	**XII**	**28 15 13 13**±3.8	**38.9N**±.11	**140.5E**±.25	**156**±38			**16**	**0-2**
JMA	XII	28 15 13 14.2±.2	38.87N±.01	140.61E±.02	144±2			**¶97xii5469**	
ISC	**XII**	**28 20 35 45**±4.2	**37.1N**±.18	**141.0E**±.34	**98**±39			**10**	**0-1**
JMA	XII	28 20 35 45.5±.1	37.03N±.01	141.00E±.02	89±2	2.5		**¶97xii5494**	
JMA	**XII**	**28 21 29 47.3**±.2	**36.16N**±.02	**139.98E**±.02	**104**±2			**¶97xii5500**	
ISC	**XII**	**28 23 31 42.6**±.37	**36.14N**±.055	**138.49E**±.088	**174**±3.3	**3.8b**		**42**	**0-82**
EIDC	XII	28 23 31 43.2±.85	36.1N	138.3E	162±3.7	3.5b		**¶97xii5512**	
JMA	XII	28 23 31 43.8±.1	36.13N±.01	138.56E±.01	164±1	3.7			
NEIC	XII	28 23 31 45.1	36.11N	138.27E	200	4.2b			
EIDC	Error ellipse is semi−major=25.1km semi−minor=19.1km azimuth=72								
JMA	Nodal plane solution: N195, Score 97%. NP1:ϕ_S98°,δ46°,λ−174°. NP2:ϕ_S4°,δ86°,λ−43°. Principle axes: T Plg26°,Azm60°; N Plg46°,Azm180°; P Plg33°,Azm312°.								
NEIC	Less reliable solution.								
ISC	**XII**	**29 07 52 10**±3.8	**36.1N**±.24	**139.5E**±.34	**101**±38			**7**	**0-2**
JMA	XII	29 07 52 10.2±.1	36.09N±.01	139.57E±.01	96±1			**¶97xii5557**	

Agency		Origin Time				φ	λ	h	Mag	n	Δ-Rng
	mo	d	h	m	s	°	°	km			°
ISC	**XII**	**29**	**11**	**49**	**49±6.0**	**37.5N±.20**	**140.4E±.65**	**100±50**		**5**	**0-1**
JMA	XII	29	11	49	48.8±.1	37.46N±.01	140.41E±.02	100±2		**¶97xii5578**	
ISC	Poorly determined										
ISC	**XII**	**29**	**14**	**01**	**43±3.1**	**37.8N±.14**	**139.3E±.23**	**155±43**		**10**	**1-3**
JMA	XII	29	14	01	42.4±.3	37.78N±.02	139.38E±.04	169±5		**¶97xii5591**	
JMA	**XII**	**29**	**18**	**37**	**21.2±.2**	**36.01N±.01**	**139.75E±.01**	**67±2**	**1.2**	**¶97xii5620**	
ISC	**XII**	**29**	**20**	**17**	**05±4.3**	**39.2N±.11**	**141.0E±.27**	**98±39**		**11**	**0-1**
JMA	XII	29	20	17	05.1±.1	39.15N±.00	140.99E±.01	97±1		**¶97xii5631**	
ISC	**XII**	**29**	**20**	**35**	**01±2.8**	**36.40N±.091**	**138.5E±.12**	**155±29**		**17**	**0-2**
JMA	XII	29	20	35	00.5±.1	36.39N±.01	138.55E±.01	159±1		**¶97xii5635**	
JMA	**XII**	**29**	**22**	**28**	**01.0±.1**	**39.88N±.00**	**141.60E±.01**	**70±1**	**1.1**	**¶97xii5646**	
JMA	**XII**	**30**	**05**	**31**	**56.3±.2**	**37.57N±.01**	**140.89E±.02**	**99±2**		**¶97xii5685**	
ISC	**XII**	**30**	**06**	**32**	**06±5.9**	**39.1N±.13**	**141.7E±.39**	**65±57**		**7**	**0-1**
JMA	XII	30	06	32	06.6±.2	39.14N±.01	141.73E±.02	62±2	1.6	**¶97xii5693**	
ISC	**XII**	**30**	**18**	**28**	**16±1.5**	**39.5N±.22**	**141.4E±.80**	**106**		**8**	**0-1**
JMA	XII	30	18	28	15.3±.1	39.59N±.01	141.49E±.02	106±1		**¶97xii5773**	
ISC	**XII**	**30**	**19**	**15**	**24±2.6**	**39.69N±.069**	**141.2E±.14**	**87±27**		**14**	**0-1**
JMA	XII	30	19	15	23.7±.1	39.68N±.00	141.22E±.01	86±1	2.4	**¶97xii5777**	
ISC	**XII**	**31**	**01**	**57**	**31±1.0**	**39.2N±.15**	**141.3E±.26**	**74**		**6**	**0-1**
JMA	XII	31	01	57	30.9±.1	39.25N±.01	141.31E±.01	74±2	1.6	**¶97xii5821**	
ISC	**XII**	**31**	**07**	**21**	**24.3±.57**	**36.92N±.047**	**138.34E±.065**	**20±11**		**14**	**0-1**
JMA	XII	31	07	21	24.5±.0	36.91N±.00	138.33E±.00	20±1	3.3	**¶97xii5852**	
ISC	**XII**	**31**	**11**	**30**	**46.3±.89**	**36.6N±.15**	**138.7E±.22**	**141**		**8**	**0-2**
JMA	XII	31	11	30	46.6±.1	36.52N±.01	138.83E±.01	141±2		**¶97xii5886**	
ISC	**XII**	**31**	**23**	**55**	**17±3.0**	**36.2N±.11**	**139.6E±.21**	**129±31**		**11**	**0-2**
JMA	XII	31	23	55	18.4±.1	36.23N±.01	139.61E±.01	115±1		**¶97xii6007**	

(228) Near east coast of Honshū.

ISC	**VII**	**01**	**00**	**38**	**12±1.7**	**36.70N±.080**	**141.3E±.21**	**43**		**11**	**1-2**
JMA	VII	01	00	38	11.7±.2	36.69N±.01	141.33E±.03	43±4	3.0	**¶97vii0002**	
ISC	**VII**	**01**	**11**	**06**	**37±3.7**	**39.9N±.17**	**142.3E±.47**	**80**		**9**	**0-2**
JMA	VII	01	11	06	37.2±.3	39.89N±.01	142.32E±.03	80±3		**¶97vii0072**	
ISC	**VII**	**01**	**13**	**37**	**37±3.8**	**39.2N±.11**	**142.4E±.36**	**96±34**		**16**	**1-2**
JMA	VII	01	13	37	38.4±.2	39.15N±.01	142.27E±.03	83±3		**¶97vii0098**	
ISC	**VII**	**01**	**14**	**28**	**28±4.3**	**36.67N±.047**	**141.5E±.15**	**13±32**		**35**	**1-4**
JMA	VII	01	14	28	28.4±.4	36.67N±.01	141.49E±.04	28	3.3	**¶97vii0103**	
ISC	**VII**	**01**	**15**	**15**	**33±1.3**	**36.65N±.074**	**141.5E±.13**	**35**		**25**	**1-3**
JMA	VII	01	15	15	32.1±.3	36.66N±.01	141.47E±.03	35	2.9	**¶97vii0108**	
ISC	**VII**	**01**	**15**	**54**	**36±1.1**	**35.85N±.076**	**140.8E±.11**	**35**		**29**	**0-4**
JMA	VII	01	15	54	33.4±.3	35.80N±.02	140.94E±.03	35±3	3.0	**¶97vii0114**	
JMA	**VII**	**01**	**22**	**28**	**44.2±.3**	**35.99N±.02**	**140.11E±.01**	**61±2**	**2.1**	**¶97vii0150**	
ISC	**VII**	**02**	**00**	**23**	**44±2.4**	**36.6N±.17**	**140.6E±.23**	**123±21**		**18**	**0-3**
JMA	VII	02	00	23	45.9±.3	36.67N±.01	140.54E±.02	106±3		**¶97vii0159**	
ISC	**VII**	**02**	**01**	**45**	**27±1.5**	**40.5N±.17**	**141.5E±.27**	**115**		**8**	**0-1**
JMA	VII	02	01	45	26.9±.3	40.51N±.01	141.46E±.03	115±3		**¶97vii0163**	
JMA	**VII**	**02**	**05**	**11**	**49.6±.4**	**36.68N±.03**	**140.90E±.03**	**82±3**		**¶97vii0184**	
ISC	**VII**	**02**	**07**	**06**	**51±2.5**	**37.2N±.13**	**141.9E±.22**	**18**		**9**	**1-2**
JMA	VII	02	07	06	49.5±.4	37.17N±.02	142.04E±.04	18	2.8	**¶97vii0196**	
ISC	**VII**	**02**	**14**	**09**	**11±3.4**	**35.9N±.33**	**140.3E±.34**	**86**		**4**	**1-1**
JMA	VII	02	14	09	11.4±.2	35.96N±.01	140.23E±.01	86±2		**¶97vii0253**	
ISC	Poorly determined										
JMA	**VII**	**02**	**16**	**01**	**53.6±.4**	**35.59N±.02**	**140.09E±.03**	**60±3**	**2.2**	**¶97vii0263**	
ISC	**VII**	**02**	**18**	**27**	**55.7±.34**	**40.13N±.021**	**142.64E±.051**	**48±3.6**	**4.3b,3.9s**	**150**	**1-144**
BJI	VII	02	18	27	52.3	40.19N	142.70E	33	4.7b,4.4s	**¶97vii0281**	
NEIC	VII	02	18	27	54.3	40.18N	142.67E	33	4.5b,4.0s		
JMA	VII	02	18	27	55.5±.1	40.15N±.00	142.52E±.01	33±2	4.2		
EIDC	VII	02	18	27	57.2	40.1N	142.6E	42	3.9b,3.9s		
ISC	**VII**	**03**	**00**	**48**	**54±2.5**	**37.3N±.13**	**141.2E±.26**	**85±25**		**13**	**0-2**
JMA	VII	03	00	48	54.3±.2	37.26N±.01	141.20E±.03	80±3		**¶97vii0329**	
ISC	**VII**	**03**	**01**	**01**	**31±3.1**	**38.63N±.099**	**141.6E±.27**	**103±32**		**11**	**0-1**
JMA	VII	03	01	01	31.3±.2	38.63N±.01	141.57E±.03	95±3		**¶97vii0331**	
ISC	**VII**	**03**	**01**	**39**	**30.9±.64**	**40.18N±.043**	**142.52E±.091**	**27**		**26**	**1-4**
JMA	VII	03	01	39	30.9±.3	40.17N±.01	142.45E±.02	27±3	3.3	**¶97vii0335**	
ISC	**VII**	**03**	**07**	**13**	**46±3.8**	**35.6N±.17**	**140.1E±.23**	**76±50**		**6**	**0-1**
JMA	VII	03	07	13	46.3±.2	35.65N±.01	140.14E±.02	70±3		**¶97vii0371**	
ISC	**VII**	**03**	**12**	**28**	**14±5.4**	**40.2N±.15**	**142.5E±.43**	**20±18**		**14**	**1-3**
JMA	VII	03	12	28	14.4±.2	40.14N±.01	142.49E±.02	28±2	3.0	**¶97vii0410**	
ISC	**VII**	**03**	**20**	**41**	**20±1.1**	**40.28N±.035**	**142.43E±.080**	**23±12**		**39**	**1-5**
JMA	VII	03	20	41	21.3±.1	40.30N±.01	142.28E±.01	40±3	3.5	**¶97vii0450**	
ISC	**VII**	**03**	**23**	**33**	**58±1.6**	**37.3N±.17**	**141.0E±.34**	**84**		**5**	**0-1**
JMA	VII	03	23	33	58.0±.2	37.33N±.01	141.02E±.02	84±2		**¶97vii0467**	
ISC	**VII**	**04**	**01**	**51**	**02.8±.90**	**35.94N±.047**	**140.12E±.073**	**56±27**		**27**	**1-3**
JMA	VII	04	01	51	02.1±.2	35.93N±.01	140.09E±.02	65±3		**¶97vii0479**	
ISC	**VII**	**04**	**05**	**05**	**11±2.6**	**38.2N±.10**	**142.3E±.29**	**44**		**12**	**1-2**
JMA	VII	04	05	05	11.1±.3	38.17N±.01	142.27E±.03	44	2.9	**¶97vii0503**	
ISC	**VII**	**04**	**09**	**50**	**44.7±.69**	**35.65N±.042**	**140.17E±.051**	**72±13**		**43**	**0-4**
JMA	VII	04	09	50	44.5±.2	35.66N±.01	140.12E±.01	72±2		**¶97vii0533**	
ISC	**VII**	**04**	**13**	**30**	**02.9±.62**	**36.41N±.039**	**141.52E±.073**	**50±11**	**3.5b**	**64**	**1-56**
EIDC	VII	04	13	29	58.8	36.3N	141.5E	0	3.5b,3.5L	**¶97vii0566**	
NEIC	VII	04	13	30	01.3	36.29N	141.55E	33			
JMA	VII	04	13	30	04.1±.2	36.41N±.01	141.30E±.02	42±4	3.6		
NEIC	Less reliable solution.										
ISC	**VII**	**05**	**00**	**15**	**58±1.2**	**35.5N±.13**	**140.6E±.45**	**60**		**5**	**0-1**
JMA	VII	05	00	15	58.0±.2	35.57N±.02	140.59E±.05	60	2.1	**¶97vii0646**	
ISC	Poorly determined										
ISC	**VII**	**05**	**04**	**58**	**35±2.9**	**35.5N±.10**	**140.2E±.14**	**79±40**		**13**	**1-2**
JMA	VII	05	04	58	35.8±.3	35.55N±.01	140.17E±.02	68±3		**¶97vii0680**	
ISC	**VII**	**05**	**08**	**04**	**53±1.0**	**36.44N±.063**	**141.2E±.11**	**41**		**28**	**1-4**
JMA	VII	05	08	04	52.1±.3	36.44N±.01	141.16E±.03	41±5	3.1	**¶97vii0698**	
ISC	**VII**	**06**	**05**	**54**	**30±1.5**	**36.53N±.078**	**141.2E±.15**	**25±13**		**12**	**0-3**
JMA	VII	06	05	54	29.9±.3	36.50N±.01	141.14E±.03	41±5	3.0	**¶97vii0845**	
ISC	**VII**	**06**	**10**	**22**	**04±2.3**	**37.42N±.099**	**141.5E±.20**	**27±14**		**19**	**1-3**
JMA	VII	06	10	22	03.7±.2	37.43N±.01	141.49E±.03	40±4	2.8	**¶97vii0867**	
ISC	**VII**	**07**	**00**	**07**	**04±2.1**	**37.6N±.15**	**141.3E±.33**	**71**		**7**	**0-1**
JMA	VII	07	00	07	03.7±.3	37.55N±.01	141.29E±.04	71±4		**¶97vii0956**	
ISC	**VII**	**07**	**01**	**48**	**59±1.7**	**36.68N±.070**	**141.3E±.13**	**26±12**		**24**	**1-3**
JMA	VII	07	01	48	59.3±.2	36.68N±.01	141.25E±.03	43±4	3.3	**¶97vii0970**	
ISC	**VII**	**07**	**03**	**23**	**17±2.4**	**37.2N±.13**	**141.9E±.21**	**24**		**17**	**1-3**
JMA	VII	07	03	23	17.1±.3	37.23N±.01	141.91E±.03	24	2.8	**¶97vii0982**	
ISC	**VII**	**07**	**04**	**18**	**17±1.1**	**34.63N±.070**	**140.2E±.11**	**37±31**		**18**	**0-3**
JMA	VII	07	04	18	16.4±.2	34.64N±.01	140.21E±.01	51±3	2.8	**¶97vii0987**	
ISC	**VII**	**07**	**05**	**36**	**30±1.2**	**36.89N±.062**	**141.7E±.12**	**26**		**28**	**1-3**
JMA	VII	07	05	36	29.3±.4	36.90N±.01	141.70E±.04	26	3.5	**¶97vii0998**	
ISC	**VII**	**07**	**14**	**40**	**59±3.1**	**38.91N±.077**	**141.5E±.20**	**114±33**		**15**	**0-2**
JMA	VII	07	14	40	59.3±.2	38.90N±.01	141.49E±.02	107±2		**¶97vii1058**	
ISC	**VII**	**08**	**02**	**16**	**31.7±.46**	**38.91N±.031**	**142.73E±.062**	**24**	**3.8b**	**57**	**1-63**
EIDC	VII	08	02	16	30.5	38.6N	143.1E	0	3.7b,3.4L	**¶97vii1123**	
JMA	VII	08	02	16	32.4±.3	38.93N±.01	142.54E±.02	24±3	3.8		
NEIC	VII	08	02	16	33.1	38.63N	142.98E	33			
NEIC	Less reliable solution.										
ISC	**VII**	**08**	**08**	**43**	**32.1±.46**	**40.41N±.032**	**142.57E±.076**	**33**		**46**	**1-5**
JMA	VII	08	08	43	32.2±.1	40.43N±.01	142.41E±.01	33±4	3.7	**¶97vii1158**	
ISC	**VII**	**08**	**10**	**51**	**31±1.8**	**36.3N±.25**	**140.1E±.21**	**72**		**4**	**1-1**
JMA	VII	08	10	51	30.7±.2	36.28N±.01	140.04E±.01	72±2		**¶97vii1176**	
ISC	Poorly determined										
ISC	**VII**	**08**	**14**	**51**	**03±1.8**	**35.89N±.041**	**141.60E±.088**	**10±11**	4.1b	**49**	**1-30**
JMA	VII	08	14	51	04.3±.3	35.92N±.01	141.64E±.03	33	3.3	**¶97vii1204**	
EIDC	VII	08	14	51	05.9	36.0N	141.4E	0	3.2L,3.9b		
ISC	**VII**	**08**	**22**	**33**	**01.3±.92**	**36.06N±.091**	**140.02E±.088**	**48**		**10**	**1-2**
JMA	VII	08	22	33	01.2±.1	36.07N±.01	140.01E±.01	48±2	3.0	**¶97vii1243**	
ISC	**VII**	**08**	**23**	**31**	**06±1.9**	**35.6N±.12**	**140.1E±.22**	**70**		**9**	**1-1**
JMA	VII	08	23	31	06.4±.2	35.59N±.01	140.03E±.02	70±2		**¶97vii1250**	
ISC	**VII**	**09**	**08**	**41**	**37±3.0**	**37.1N±.16**	**141.2E±.31**	**89±26**		**13**	**0-2**
JMA	VII	09	08	41	38.0±.3	37.13N±.01	141.17E±.03	81±3		**¶97vii1302**	
ISC	**VII**	**09**	**08**	**56**	**55.4±.97**	**35.40N±.057**	**140.49E±.074**	**68±14**		**39**	**0-5**
JMA	VII	09	08	56	55.5±.2	35.43N±.01	140.45E±.02	67±2		**¶97vii1303**	
ISC	**VII**	**09**	**09**	**36**	**08.1±.20**	**35.55N±.017**	**140.11E±.023**	**70±1.7**	**5.1b**	**494**	**0-159**
BJI	VII	09	09	36	04.6	35.46N	140.30E	65	5.1b,4.1s	**¶97vii1310**	
NEIC	VII	09	09	36	07.0	35.43N	139.99E	64	5.2b		
JMA	VII	09	09	36	07.5±.1	35.55N±.01	140.13E±.01	77±2	4.6		
MOS	VII	09	09	36	08.7	35.5N	140.0E	82	5.4b		
EIDC	VII	09	09	36	08.7	35.5N	140.2E	71	4.6b,3.9s		
HRVD	VII	09	09	36	09.6±.6	35.40N±.07	140.09E±.06	70±6.4			
NEIC	Mw5.1(HRV). Felt I=V MM.										
NEIC	Felt I=III J in Chiba, southern Ibaraki, eastern Kanagawa and northern Saitama Prefectures. Also felt III J in the Tokyo area.										
JMA	Felt I=III J1										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c32; Half duration: 1$\hat{=}$0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.05±.25; $M_{\theta\theta}$0.34±.53; $M_{\phi\phi}$−5.38±.47; $M_{r\theta}$−0.13±.75; $M_{r\phi}$1.92±.80; $M_{\theta\phi}$−1.50±.35. Principal Axes: T 5.42,Plg78°,Azm248°; N 0.64, Plg7°,Azm12°; P −6.06,Plg10°,Azm103°. Best double couple: $M_0$5.7×10^{16}Nm, NP1:ϕ_S201°, δ36°,λ102°. NP2:ϕ_S7°,δ55°,λ82°.										
JMA	**VII**	**09**	**10**	**01**	**03.6±.2**	**35.62N±.02**	**140.18E±.01**	**61±2**		**¶97vii1317**	
ISC	**VII**	**09**	**10**	**05**	**26±1.2**	**35.54N±.060**	**140.13E±.076**	**67±17**		**29**	**0-3**
JMA	VII	09	10	05	25.7±.2	35.57N±.01	140.10E±.02	69±3		**¶97vii1318**	
JMA	**VII**	**09**	**10**	**37**	**31.0±.4**	**35.61N±.02**	**140.15E±.02**	**62±3**		**¶97vii1322**	
ISC	**VII**	**09**	**11**	**13**	**21.6±.68**	**35.56N±.044**	**140.18E±.060**	**74±13**		**44**	**0-5**
JMA	VII	09	11	13	21.5±.2	35.56N±.01	140.11E±.01	73±2		**¶97vii1325**	
ISC	**VII**	**09**	**17**	**44**	**48.6±.51**	**40.34N±.032**	**142.07E±.077**	**86±13**		**42**	**0-4**
JMA	VII	09	17	44	49.6±.1	40.35N±.00	141.96E±.01	76±2		**¶97vii1373**	
ISC	**VII**	**09**	**17**	**48**	**19.5±.85**	**36.09N±.049**	**140.01E±.068**	**63±18**		**27**	**1-4**
JMA	VII	09	17	48	19.2±.1	36.08N±.01	140.00E±.01	69±2		**¶97vii1374**	
ISC	**VII**	**09**	**19**	**26**	**24±1.3**	**36.68N±.078**	**141.4E±.14**	**37**		**16**	**1-3**
JMA	VII	09	19	26	22.8±.4	36.65N±.01	141.36E±.04	37	2.8	**¶97vii1384**	
ISC	**VII**	**09**	**23**	**01**	**07±2.7**	**35.45N±.095**	**140.1E±.13**	**67±39**		**14**	**0-2**
JMA	VII	09	23	01	06.5±.3	35.46N±.01	140.09E±.02	66±3		**¶97vii1408**	
ISC	**VII**	**10**	**00**	**28**	**43±1.5**	**37.48N±.084**	**141.4E±.19**	**84±17**		**21**	**0-2**
JMA	VII	10	00	28	43.4±.2	37.50N±.01	141.40E±.02	78±2		**¶97vii1416**	
ISC	**VII**	**10**	**06**	**20**	**19.7±.60**	**40.66N±.046**	**142.2E±.10**	**41**		**20**	**1-3**
JMA	VII	10	06	20	19.5±.1	40.66N±.01	142.16E±.02	41	2.9	**¶97vii1460**	
JMA	**VII**	**10**	**12**	**02**	**54.3±.2**	**36.33N±.02**	**140.55E±.01**	**63±2**		**¶97vii1506**	
ISC	**VII**	**10**	**18**	**56**	**58±2.0**	**39.5N±.11**	**142.1E±.35**	**81**		**9**	**0-1**
JMA	VII	10	18	56	58.1±.2	39.52N±.01	142.04E±.03	81±3		**¶97vii1547**	
JMA	**VII**	**10**	**20**	**13**	**04.6±.5**	**35.73N±.03**	**140.11E±.03**	**66±3**		**¶97vii1556**	
ISC	**VII**	**10**	**20**	**57**	**37±3.4**	**37.8N±.20**	**141.5E±.61**	**76**		**8**	**1-1**
JMA	VII	10	20	57	36.6±.2	37.83N±.01	141.55E±.03	76		**¶97vii1568**	
ISC	Poorly determined										
ISC	**VII**	**10**	**22**	**02**	**19±3.1**	**35.5N±.26**	**140.1E±.30**	**81**		**6**	**1-1**
JMA	VII	10	22	02	20.0±.3	35.58N±.01	140.04E±.02	81±3		**¶97vii1574**	
JMA	**VII**	**11**	**01**	**46**	**56.5±.1**	**35.68N±.00**	**140.16E±.00**	**63±1**		**¶97vii1610**	
ISC	**VII**	**11**	**03**	**20**	**38±3.2**	**37.5N±.18**	**141.9E±.27**	**24**		**12**	**1-2**
JMA	VII	11	03	20	39.1±.4	37.52N±.02	141.79E±.03	24	2.9	**¶97vii1622**	
ISC	**VII**	**11**	**10**	**51**	**42±1.5**	**37.51N±.096**	**141.4E±.17**	**46**		**18**	**0-2**
JMA	VII	11	10	51	41.3±.2	37.52N±.01	141.46E±.02	46±3	2.8	**¶97vii1675**	
ISC	**VII**	**11**	**13**	**19**	**24±2.4**	**36.7N±.26**	**140.7E±.38**	**106**		**10**	**0-3**
JMA	VII	11	13	19	24.5±.3	36.75N±.03	140.68E±.04	106±3		**¶97vii1688**	
ISC	**VII**	**11**	**23**	**12**	**01±3.2**	**36.9N±.16**	**142.0E±.35**	**63±48**		**19**	**1-3**
JMA	VII	11	23	12	02.9±.3	36.95N±.01	141.79E±.03	66		**¶97vii1741**	
JMA	**VII**	**12**	**01**	**49**	**13.5±.3**	**36.14N±.02**	**140.06E±.02**	**61±3**		**¶97vii1758**	
ISC	**VII**	**12**	**02**	**52**	**17±2.1**	**35.37N±.085**	**140.4E±.11**	**77±25**		**17**	**0-2**
JMA	VII	12	02	52	18.3±.2	35.37N±.01	140.38E±.02	65±3		**¶97vii1766**	
ISC	**VII**	**12**	**04**	**40**	**55.5±.62**	**34.79N±.044**	**140.84E±.072**	**73±7.5**	3.6b	**61**	**0-59**
EIDC	VII	12	04	40	18.2	39.5N	132.9E	0	3.6b,3.9L	**¶97vii1775**	
JMA	VII	12	04	40	57.4±.3	34.81N±.01	140.64E±.02	62±2			
ISC	**VII**	**12**	**06**	**35**	**09±1.2**	**34.40N±.074**	**140.7E±.11**	**44**		**28**	**0-3**
JMA	VII	12	06	35	08.9±.2	34.39N±.01	140.60E±.02	44±4	3.4	**¶97vii1783**	
ISC	**VII**	**12**	**06**	**36**	**37.6±.54**	**40.78N±.040**	**142.13E±.091**	**36**		**23**	**1-3**
JMA	VII	12	06	36	36.9±.1	40.75N±.01	142.12E±.02	36	2.8	**¶97vii1784**	
ISC	**VII**	**12**	**11**	**39**	**33.7±.58**	**40.74N±.030**	**141.46E±.079**	**87±13**		**39**	**0-4**
JMA	VII	12	11	39	34.2±.1	40.72N±.00	141.36E±.01	82±2		**¶97vii1809**	
ISC	**VII**	**12**	**17**	**48**	**00.2±.35**	**35.55N±.028**	**140.28E±.042**	**84±5.3**	**3.8b**	**93**	**0-59**
NEIC	VII	12	17	47	59.4	35.56N	140.44E	73		**¶97vii1846**	
EIDC	VII	12	17	48	00.7	35.6N	140.4E	62	3.3L,3.5b		
JMA	VII	12	17	48	00.9±.2	35.55N±.01	140.13E±.01	75±2	3.2		
NEIC	Single network solution.										
ISC	**VII**	**12**	**17**	**50**	**48±3.3**	**35.5N±.14**	**140.2E±.22**	**79±33**		**12**	**0-2**
JMA	VII	12	17	50	48.3±.3	35.55N±.02	140.13E±.02	71±3		**¶97vii1847**	
ISC	**VII**	**12**	**18**	**52**	**58±8.2**	**40.5N±.82**	**142.0E±.67**	**97**		**8**	**1-1**
JMA	VII	12	18	52	57.4±.2	40.54N±.01	141.97E±.02	97±2		**¶97vii1856**	
ISC	Poorly determined										
JMA	**VII**	**13**	**06**	**23**	**11.2±.2**	**36.44N±.01**	**140.58E±.02**	**87±2**		**¶97vii1937**	
ISC	**VII**	**13**	**06**	**41**	**53.5±.82**	**39.22N±.055**	**142.6E±.16**	**93±18**		**29**	**1-5**
JMA	VII	13	06	41	55.7±.2	39.23N±.01	142.32E±.03	83±3		**¶97vii1938**	
ISC	**VII**	**13**	**12**	**26**	**18.8±.56**	**39.64N±.040**	**142.29E±.091**	**37±29**		**36**	**0-5**
JMA	VII	13	12	26	19.1±.2	39.65N±.01	142.15E±.02	50±2	3.0	**¶97vii1968**	
ISC	**VII**	**13**	**15**	**18**	**31±4.1**	**36.6N±.30**	**140.9E±.52**	**83**		**7**	**0-1**
JMA	VII	13	15	18	31.6±.4	36.59N±.02	140.88E±.03	83±3		**¶97vii1987**	
JMA	**VII**	**14**	**08**	**19**	**08.4±.3**	**36.02N±.01**	**140.11E±.02**	**61±2**		**¶97vii2086**	
ISC	**VII**	**14**	**12**	**38**	**59±1.6**	**36.5N±.23**	**140.1E±.26**	**107**		**8**	**0-2**
JMA	VII	14	12	38	59.0±.2	36.47N±.01	140.12E±.02	107±2		**¶97vii2129**	
ISC	**VII**	**14**	**13**	**36**	**24±1.8**	**38.33N±.072**	**141.3E±.20**	**69±24**		**11**	**0-1**
JMA	VII	14	13	36	24.4±.1	38.33N±.01	141.28E±.02	69±2		**¶97vii2142**	
ISC	**VII**	**14**	**14**	**26**	**43±2.5**	**36.4N±.14**	**141.7E±.20**	**20**		**20**	**1-4**
JMA	VII	14	14	26	41.1±.5	36.34N±.02	141.83E±.04	20	2.9	**¶97vii2149**	
ISC	**VII**	**14**	**14**	**27**	**08±4.5**	**36.6N±.29**	**141.5E±.36**	**42**		**18**	**1-3**
JMA	VII	14	14	27	05.1±.5	36.43N±.02	141.74E±.03	42	2.9	**¶97vii2150**	
JMA	**VII**	**14**	**17**	**06**	**23.3±.2**	**36.54N±.01**	**140.64E±.01**	**69±2**		**¶97vii2181**	

ISC	**VII**	**14 19 38 38.0**±.52	**39.45N**±.040	**142.20E**±.092	**63**±13			**42**	**0-5**
JMA	VII	14 19 38 39.5±.1	39.46N±.00	141.98E±.01	59±1	3.2		¶97vii2194	
ISC	**VII**	**14 21 54 14.9**±.60	**35.84N**±.037	**140.97E**±.073	**39**			**43**	**0-5**
JMA	VII	14 21 54 14.4±.3	35.88N±.01	140.96E±.04	39±3	3.2		¶97vii2209	
ISC	**VII**	**15 02 46 46**±3.2	**38.4N**±.11	**142.4E**±.31	**21**			**12**	**1-2**
JMA	VII	15 02 46 45.5±.5	38.39N±.02	142.47E±.04	21	2.8		¶97vii2239	
ISC	**VII**	**15 09 47 00**±1.7	**36.70N**±.070	**141.3E**±.17	**21**±13			**15**	**1-2**
JMA	VII	15 09 47 00.1±.3	36.72N±.01	141.30E±.03	32±4	2.9		¶97vii2284	
ISC	**VII**	**15 09 47 13**±2.4	**37.3N**±.13	**141.8E**±.23	**31**			**23**	**1-3**
JMA	VII	15 09 47 13.1±.2	37.33N±.01	141.78E±.02	31±4	3.2		¶97vii2285	
JMA	**VII**	**15 11 31 35.0**±.8	**36.32N**±.03	**141.88E**±.08	**65**			¶97vii2299	
ISC	**VII**	**15 14 48 44**±2.8	**38.55N**±.092	**142.6E**±.28	**21**			**14**	**1-2**
JMA	VII	15 14 48 43.4±.4	38.54N±.01	142.70E±.03	21±5	2.8		¶97vii2317	
ISC	**VII**	**15 21 47 31**±1.4	**35.59N**±.065	**140.13E**±.090	**72**±21			**25**	**0-2**
JMA	VII	15 21 47 30.7±.2	35.61N±.01	140.09E±.02	73±3			¶97vii2357	
ISC	**VII**	**16 01 53 17**±2.3	**35.76N**±.070	**140.09E**±.087	**102**±31			**22**	**0-2**
JMA	VII	16 01 53 16.6±.2	35.76N±.01	140.08E±.01	104±2			¶97vii2377	
ISC	**VII**	**16 13 31 30.3**±.78	**36.00N**±.067	**140.27E**±.079	**42**			**16**	**1-2**
JMA	VII	16 13 31 30.0±.1	36.00N±.01	140.23E±.01	42±2	2.8		¶97vii2447	
JMA	**VII**	**17 04 11 16.3**±.3	**36.32N**±.02	**140.41E**±.02	**76**±3			¶97vii2542	
ISC	**VII**	**17 04 23 04**±2.0	**38.72N**±.058	**141.5E**±.22	**119**±22			**19**	**0-3**
JMA	VII	17 04 23 04.6±.1	38.72N±.00	141.45E±.02	108±2			¶97vii2544	
ISC	**VII**	**17 08 54 27**±7.1	**36.6N**±.40	**140.5E**±.34	**74**±61			**5**	**0-1**
JMA	VII	17 08 54 27.3±.3	36.56N±.01	140.44E±.02	71±3			¶97vii2576	
ISC	Poorly determined								
ISC	**VII**	**17 08 58 18**±10	**38.9N**±.42	**142.4E**±.93	**53**			**9**	**1-1**
JMA	VII	17 08 58 18.5±.3	38.89N±.01	142.32E±.02	53±3	2.8		¶97vii2578	
ISC	**VII**	**17 11 04 59**±2.0	**36.1N**±.12	**140.1E**±.16	**59**±40			**9**	**1-1**
JMA	VII	17 11 04 58.8±.1	36.10N±.01	140.07E±.01	64±1			¶97vii2585	
ISC	**VII**	**17 12 00 33**±2.7	**35.1N**±.14	**141.2E**±.19	**68**±30			**23**	**0-3**
JMA	VII	17 12 00 32.9±.3	35.20N±.01	141.09E±.03	66±3			¶97vii2589	
JMA	**VII**	**17 18 06 45.1**±.3	**37.02N**±.01	**141.27E**±.04	**73**			¶97vii2622	
ISC	**VII**	**17 18 07 04**±2.5	**36.9N**±.13	**141.8E**±.23	**29**			**25**	**1-3**
JMA	VII	17 18 07 02.7±.4	36.89N±.02	141.74E±.03	29	3.1		¶97vii2623	
ISC	**VII**	**17 20 11 46**±1.6	**35.57N**±.098	**140.8E**±.13	**69**±21			**21**	**0-4**
JMA	VII	17 20 11 46.5±.2	35.59N±.01	140.72E±.03	60±3	2.6		¶97vii2640	
ISC	**VII**	**17 21 23 45**±2.5	**37.2N**±.15	**141.4E**±.35	**85**±22			**12**	**0-2**
JMA	VII	17 21 23 45.7±.3	37.23N±.02	141.27E±.04	80±3			¶97vii2646	
ISC	**VII**	**17 21 33 58**±2.0	**36.72N**±.077	**141.4E**±.15	**22**±14			**23**	**1-3**
JMA	VII	17 21 33 58.1±.2	36.75N±.01	141.40E±.03	38±4	3.1		¶97vii2649	
ISC	**VII**	**18 00 06 18**±3.6	**39.0N**±.35	**141.4E**±.90	**108**			**9**	**0-1**
JMA	VII	18 00 06 17.4±.3	38.94N±.01	141.40E±.04	108±2			¶97vii2667	
ISC	Poorly determined								
ISC	**VII**	**18 02 42 45**±3.1	**36.7N**±.20	**141.2E**±.32	**37**			**15**	**0-3**
JMA	VII	18 02 42 43.3±.3	36.66N±.01	141.30E±.02	37±3	3.0		¶97vii2679	
ISC	**VII**	**18 06 06 08**±1.5	**36.49N**±.090	**141.5E**±.16	**38**			**17**	**1-3**
JMA	VII	18 06 06 06.3±.3	36.48N±.01	141.53E±.02	38±5	3.0		¶97vii2705	
ISC	**VII**	**18 10 31 02**±5.6	**37.3N**±.30	**142.0E**±.53	**75**			**9**	**1-2**
JMA	VII	18 10 31 01.8±.4	37.26N±.02	142.04E±.03	75			¶97vii2725	
ISC	**VII**	**18 11 47 49**±1.6	**34.41N**±.077	**140.2E**±.11	**52**±33			**22**	**0-3**
JMA	VII	18 11 47 49.0±.2	34.42N±.01	140.18E±.01	60±4	2.6		¶97vii2733	
ISC	**VII**	**18 13 01 23**±1.2	**34.04N**±.089	**140.7E**±.10	**107**±11			**38**	**1-67**
JMA	VII	18 13 01 25.8±.2	34.09N±.01	140.48E±.02	90±3			¶97vii2744	
JMA	**VII**	**18 15 33 24.0**±.3	**36.09N**±.02	**140.04E**±.02	**65**±3			¶97vii2762	
ISC	**VII**	**18 16 06 17.8**±.91	**36.3N**±.11	**140.1E**±.14	**71**			**11**	**1-2**
JMA	VII	18 16 06 17.8±.1	36.28N±.01	140.04E±.01	71±1			¶97vii2765	
ISC	**VII**	**18 18 47 57**±1.4	**35.6N**±.13	**140.2E**±.22	**62**			**4**	**1-1**
JMA	VII	18 18 47 56.8±.1	35.58N±.01	140.17E±.01	62±2			¶97vii2775	
ISC	Poorly determined								
ISC	**VII**	**18 20 12 05.4**±.75	**36.62N**±.049	**140.69E**±.087	**79**±12			**32**	**0-3**
JMA	VII	18 20 12 05.9±.1	36.59N±.00	140.62E±.01	72±2			¶97vii2785	
ISC	**VII**	**18 23 10 13**±6.3	**35.1N**±.16	**141.1E**±.43	**70**±54			**8**	**0-2**
JMA	VII	18 23 10 13.8±.4	35.12N±.02	140.98E±.03	62±4			¶97vii2798	
JMA	**VII**	**19 01 46 45.2**±.5	**37.95N**±.01	**141.07E**±.04	**67**±5			¶97vii2817	
JMA	**VII**	**19 03 07 29.3**±.3	**36.28N**±.02	**140.03E**±.02	**70**±3			¶97vii2824	
JMA	**VII**	**19 12 40 00.8**±.5	**35.98N**±.03	**140.27E**±.03	**90**±4			¶97vii2876	
JMA	**VII**	**19 19 39 19.9**±.1	**37.10N**±.01	**141.06E**±.02	**83**±1			¶97vii2942	
ISC	**VII**	**19 21 45 57**±2.7	**36.0N**±.13	**141.3E**±.28	**50**			**10**	**0-2**
JMA	VII	19 21 45 57.5±.4	36.03N±.02	141.28E±.04	50±5	2.9		¶97vii2960	
ISC	**VII**	**20 02 55 20**±1.4	**35.99N**±.066	**140.10E**±.090	**57**±31			**20**	**1-3**
JMA	VII	20 02 55 19.1±.2	35.97N±.01	140.09E±.01	63±2			¶97vii2992	
ISC	**VII**	**20 03 32 07**±1.1	**36.43N**±.037	**141.32E**±.073	**21**±10			**50**	**1-8**
JMA	VII	20 03 32 07.6±.2	36.45N±.01	141.25E±.02	38±4	3.3		¶97vii2994	
ISC	**VII**	**20 03 40 13**±4.7	**38.4N**±.20	**141.3E**±.37	**76**±44			**7**	**0-1**
JMA	VII	20 03 40 13.3±.4	38.43N±.02	141.25E±.04	75±4			¶97vii2998	
ISC	**VII**	**20 04 00 48**±1.9	**37.35N**±.097	**141.9E**±.21	**35**			**23**	**1-3**
JMA	VII	20 04 00 47.1±.3	37.37N±.01	141.86E±.03	35	3.0		¶97vii3007	
JMA	**VII**	**20 04 04 25.6**±.3	**36.20N**±.02	**140.12E**±.02	**61**±3	**1.8**		¶97vii3012	
ISC	**VII**	**20 04 35 16.9**±.60	**36.36N**±.029	**140.03E**±.051	**96**±11			**62**	**0-8**
JMA	VII	20 04 35 17.6±.1	36.33N±.01	139.99E±.01	85±2	2.9		¶97vii3015	
ISC	**VII**	**20 06 37 31**±3.1	**40.3N**±.36	**141.7E**±.35	**109**			**8**	**0-1**
JMA	VII	20 06 37 30.8±.2	40.30N±.02	141.67E±.02	109±2			¶97vii3034	
ISC	**VII**	**20 06 46 41**±1.2	**34.68N**±.062	**140.62E**±.099	**53**±15			**30**	**0-3**
JMA	VII	20 06 46 40.8±.2	34.68N±.01	140.57E±.02	54±3	2.9		¶97vii3035	
ISC	**VII**	**20 09 12 02**±1.3	**34.66N**±.094	**140.71E**±.088	**60**±13			**34**	**0-5**
JMA	VII	20 09 12 02.7±.3	34.69N±.02	140.59E±.02	56±3	3.1		¶97vii3055	
ISC	**VII**	**20 11 51 42**±3.2	**36.4N**±.12	**141.5E**±.29	**22**±20			**10**	**1-3**
JMA	VII	20 11 51 42.8±.3	36.39N±.01	141.47E±.03	42	2.9		¶97vii3084	
JMA	**VII**	**20 12 40 37.8**±.2	**36.40N**±.02	**140.24E**±.01	**90**±2			¶97vii3093	
ISC	**VII**	**20 14 42 12.3**±.46	**36.20N**±.028	**140.09E**±.049	**52**±18			**54**	**1-4**
JMA	VII	20 14 42 11.8±.1	36.19N±.01	140.04E±.01	56±2	3.4		¶97vii3103	
ISC	**VII**	**20 15 15 09**±1.5	**34.89N**±.081	**140.03E**±.093	**57**±23			**21**	**0-2**
JMA	VII	20 15 15 08.4±.2	34.86N±.01	140.00E±.01	61±2	2.5		¶97vii3109	
ISC	**VII**	**20 15 16 10**±1.4	**38.02N**±.059	**142.0E**±.16	**41**			**23**	**1-4**
JMA	VII	20 15 16 08.8±.3	38.00N±.01	142.04E±.03	41±5	3.3		¶97vii3110	
JMA	**VII**	**20 15 52 52.1**±.4	**35.66N**±.02	**140.17E**±.02	**63**±3			¶97vii3118	
ISC	**VII**	**20 18 45 28**±4.0	**34.6N**±.33	**140.1E**±.19	**96**±34			**9**	**0-2**
JMA	VII	20 18 45 28.9±.3	34.66N±.02	140.13E±.01	88±3			¶97vii3134	
ISC	**VII**	**20 23 08 25**±1.1	**37.60N**±.055	**141.3E**±.13	**101**±15			**26**	**0-3**
JMA	VII	20 23 08 25.2±.1	37.60N±.00	141.25E±.01	94±2			¶97vii3155	
ISC	**VII**	**20 23 56 39**±1.1	**40.95N**±.042	**141.3E**±.12	**91**±18			**24**	**0-4**
JMA	VII	20 23 56 39.1±.1	40.93N±.00	141.24E±.02	88±2			¶97vii3161	
ISC	**VII**	**21 01 43 07**±1.2	**35.53N**±.065	**140.16E**±.065	**75**±21			**30**	**0-4**
JMA	VII	21 01 43 06.6±.2	35.56N±.01	140.12E±.01	72±2			¶97vii3172	
ISC	**VII**	**21 02 02 37**±2.1	**37.2N**±.11	**141.8E**±.21	**40**			**19**	**1-3**
JMA	VII	21 02 02 36.3±.3	37.22N±.01	141.82E±.03	40	3.2		¶97vii3174	
ISC	**VII**	**21 05 19 46**±6.0	**39.1N**±.13	**142.4E**±.52	**25**±19			**9**	**1-2**
JMA	VII	21 05 19 47.3±.3	39.09N±.01	142.35E±.03	31±4	3.0		¶97vii3198	
ISC	**VII**	**21 05 50 48**±6.5	**38.9N**±.16	**141.6E**±.47	**63**±61			**5**	**0-1**
JMA	VII	21 05 50 48.1±.1	38.88N±.01	141.57E±.02	62±2			¶97vii3204	
ISC	Poorly determined								
ISC	**VII**	**21 06 05 56**±4.0	**37.38N**±.034	**141.83E**±.098	**10**±30			**41**	**1-5**
JMA	VII	21 06 05 57.1±.3	37.38N±.01	141.81E±.03	35	3.5		¶97vii3206	
ISC	**VII**	**21 12 13 34**±1.2	**38.37N**±.055	**141.2E**±.13	**74**±18			**19**	**0-2**
JMA	VII	21 12 13 34.1±.0	38.37N±.00	141.17E±.01	74±1			¶97vii3240	
ISC	**VII**	**21 12 59 47**±1.3	**35.69N**±.096	**140.2E**±.16	**66**			**11**	**0-1**
JMA	VII	21 12 59 47.2±.4	35.69N±.02	140.19E±.03	66±4			¶97vii3246	
ISC	**VII**	**21 19 28 53.0**±.46	**36.71N**±.031	**141.00E**±.073	**120**±9.1			**70**	**0-8**
JMA	VII	21 19 28 55.7±.2	36.72N±.01	140.83E±.02	88±2			¶97vii3281	
ISC	**VII**	**21 22 49 33.1**±.37	**38.80N**±.030	**141.73E**±.082	**115**±8.5	3.6b		**81**	**0-146**
NEIC	VII	21 22 49 33.6	38.77N	141.64E	100			¶97vii3293	
EIDC	VII	21 22 49 35.0	38.8N	141.5E	98	3.4b			
JMA	VII	21 22 49 35.1±.1	38.82N±.00	141.50E±.01	105±1	3.7			
NEIC	Less reliable solution.								
ISC	**VII**	**22 00 46 40**±3.3	**35.5N**±.10	**140.2E**±.15	**76**±49			**14**	**1-2**
JMA	VII	22 00 46 41.5±.2	35.56N±.01	140.12E±.01	62±3			¶97vii3304	
ISC	**VII**	**22 06 42 06**±4.7	**39.6N**±.12	**142.2E**±.44	**48**±36			**9**	**0-1**
JMA	VII	22 06 42 06.4±.1	39.63N±.01	142.10E±.02	47±1	2.8		¶97vii3336	
ISC	**VII**	**22 10 12 02**±3.0	**37.5N**±.22	**141.4E**±.43	**72**			**6**	**1-2**
JMA	VII	22 10 12 02.4±.1	37.47N±.01	141.39E±.02	72±3			¶97vii3359	
ISC	**VII**	**22 18 19 04.6**±.73	**39.64N**±.052	**142.3E**±.10	**50**			**23**	**0-5**
JMA	VII	22 18 19 05.5±.1	39.62N±.00	142.12E±.02	50±1	2.9		¶97vii3410	
ISC	**VII**	**22 22 10 38**±3.9	**36.8N**±.18	**141.8E**±.35	**37**			**12**	**1-3**
JMA	VII	22 22 10 35.4±.4	36.68N±.01	141.90E±.03	37	2.8		¶97vii3438	
ISC	**VII**	**22 22 29 13.5**±.91	**36.50N**±.059	**140.70E**±.092	**58**±16			**26**	**0-4**
JMA	VII	22 22 29 13.4±.2	36.48N±.01	140.66E±.02	59±2	3.0		¶97vii3441	
ISC	**VII**	**23 00 06 52**±3.2	**36.7N**±.20	**141.7E**±.25	**36**			**18**	**1-3**
JMA	VII	23 00 06 50.6±.4	36.69N±.02	141.82E±.04	36	3.3		¶97vii3455	
ISC	**VII**	**23 03 25 47**±4.4	**37.2N**±.29	**141.6E**±.45	**74**			**7**	**1-2**
JMA	VII	23 03 25 47.8±.3	37.27N±.02	141.46E±.04	74			¶97vii3475	
ISC	**VII**	**23 03 58 17**±4.3	**36.6N**±.27	**141.5E**±.32	**43**			**14**	**1-3**
JMA	VII	23 03 58 14.2±.4	36.47N±.02	141.67E±.03	43	2.8		¶97vii3480	
ISC	**VII**	**23 04 52 20**±1.7	**35.52N**±.093	**140.2E**±.12	**73**±21			**19**	**0-2**
JMA	VII	23 04 52 19.1±.3	35.55N±.01	140.13E±.02	73±3			¶97vii3484	
JMA	**VII**	**23 08 06 25.4**±.3	**36.11N**±.01	**140.13E**±.02	**63**±3			¶97vii3500	
ISC	**VII**	**23 09 54 42**±5.7	**38.8N**±.15	**141.6E**±.39	**113**±57			**10**	**0-1**
JMA	VII	23 09 54 43.2±.3	38.81N±.01	141.49E±.04	101±3			¶97vii3511	
ISC	**VII**	**23 11 15 16**±2.1	**37.9N**±.12	**141.6E**±.35	**83**			**9**	**1-2**
JMA	VII	23 11 15 16.1±.2	37.88N±.01	141.58E±.03	83±3			¶97vii3522	
ISC	**VII**	**23 12 13 00**±2.0	**37.7N**±.11	**141.8E**±.30	**74**±32			**15**	**1-2**
JMA	VII	23 12 13 00.1±.2	37.72N±.01	141.74E±.04	77±4			¶97vii3525	
ISC	**VII**	**23 15 03 14.8**±.99	**34.97N**±.059	**140.40E**±.066	**110**±11			**46**	**0-5**
JMA	VII	23 15 03 15.5±.2	34.99N±.01	140.31E±.01	104±2			¶97vii3549	
ISC	**VII**	**23 18 08 32.6**±.51	**37.14N**±.032	**141.61E**±.065	**50**±7.3	**3.7b**		**95**	**1-147**
JMA	VII	23 18 08 32.8±.1	37.16N±.01	141.48E±.02	47±3	3.8		¶97vii3562	
EIDC	VII	23 18 08 35.7	37.0N	141.2E	54	3.4b,2.9L			
NEIC	VII	23 18 08 36.0	37.08N	141.08E	70				
NEIC	Less reliable solution.								
ISC	**VII**	**23 18 37 37**±10	**37.2N**±.17	**141.5E**±.97	**78**±48			**8**	**1-2**
JMA	VII	23 18 37 39.0±.5	37.19N±.02	141.33E±.05	72±4			¶97vii3567	
ISC	**VII**	**23 18 53 09**±4.7	**35.7N**±.12	**140.4E**±.27	**94**±45			**10**	**0-2**
JMA	VII	23 18 53 11.3±.4	35.73N±.02	140.24E±.03	61±4	2.5		¶97vii3569	
ISC	**VII**	**23 19 38 31.2**±.49	**40.02N**±.033	**141.58E**±.078	**85**±9.3			**41**	**0-5**
JMA	VII	23 19 38 31.8±.1	40.01N±.00	141.44E±.01	80±2			¶97vii3571	
ISC	**VII**	**23 22 07 25**±1.7	**36.40N**±.083	**141.0E**±.18	**40**±54			**9**	**0-2**
JMA	VII	23 22 07 24.7±.2	36.42N±.01	140.97E±.02	47±3	2.9		¶97vii3580	
ISC	**VII**	**24 05 38 53**±1.1	**34.79N**±.070	**140.10E**±.079	**53**±21			**22**	**0-2**
JMA	VII	24 05 38 52.3±.2	34.79N±.02	140.08E±.01	63±3			¶97vii3626	
JMA	**VII**	**24 07 04 28.4**±.3	**35.70N**±.02	**140.09E**±.02	**63**±2			¶97vii3634	
ISC	**VII**	**24 08 36 38.3**±.74	**35.90N**±.075	**140.08E**±.085	**54**			**14**	**1-2**
JMA	VII	24 08 36 37.9±.1	35.91N±.01	140.06E±.01	54±2	2.8		¶97vii3648	
ISC	**VII**	**24 09 49 25**±7.1	**39.8N**±.25	**142.3E**±.62	**38**±45			**12**	**0-3**
JMA	VII	24 09 49 25.2±.2	39.80N±.01	142.20E±.02	40±2	2.8		¶97vii3655	
ISC	**VII**	**24 17 59 18**±3.0	**35.64N**±.081	**140.1E**±.14	**89**±34			**14**	**0-2**
JMA	VII	24 17 59 18.9±.2	35.66N±.01	140.07E±.02	72±3			¶97vii3709	
ISC	**VII**	**24 21 37 23.9**±.84	**35.62N**±.045	**140.25E**±.058	**120**±11			**54**	**0-4**
JMA	VII	24 21 37 25.0±.2	35.63N±.01	140.13E±.01	108±2			¶97vii3724	
JMA	**VII**	**24 21 39 38.2**±.3	**36.29N**±.01	**140.04E**±.02	**69**±3			¶97vii3725	
ISC	**VII**	**25 00 54 28**±1.7	**38.8N**±.16	**141.7E**±.43	**86**			**7**	**0-1**
JMA	VII	25 00 54 27.7±.2	38.77N±.01	141.68E±.02	86±2			¶97vii3747	
ISC	**VII**	**25 17 30 53**±1.2	**34.73N**±.073	**140.28E**±.074	**89**±13			**31**	**0-4**
JMA	VII	25 17 30 53.9±.2	34.69N±.01	140.15E±.01	84±2			¶97vii3851	
ISC	**VII**	**25 18 42 01.2**±.96	**36.37N**±.047	**140.84E**±.085	**21**±9.2			**29**	**0-4**
JMA	VII	25 18 42 00.5±.2	36.33N±.01	140.88E±.02	44±3	3.2		¶97vii3860	
JMA	**VII**	**25 21 06 10.6**±.3	**35.97N**±.02	**140.19E**±.02	**62**±3			¶97vii3879	
ISC	**VII**	**26 06 56 34.2**±.93	**38.50N**±.069	**142.2E**±.20	**107**±21			**25**	**1-6**
JMA	VII	26 06 56 36.9±.2	38.53N±.01	142.01E±.03	84±3			¶97vii3931	
ISC	**VII**	**26 07 58 12**±2.7	**37.3N**±.14	**142.0E**±.26	**35**			**13**	**1-2**
JMA	VII	26 07 58 12.8±.3	37.34N±.01	141.89E±.03	35	3.0		¶97vii3936	
JMA	**VII**	**26 17 33 04.8**±.3	**36.03N**±.02	**140.11E**±.02	**60**±3	**1.9**		¶97vii3987	
ISC	**VII**	**27 04 54 33**±2.5	**37.2N**±.13	**141.9E**±.23	**35**			**17**	**1-3**
JMA	VII	27 04 54 32.0±.4	37.18N±.02	141.92E±.03	35	3.0		¶97vii4058	
ISC	**VII**	**27 05 30 01**±1.2	**37.56N**±.060	**141.6E**±.15	**84**±18			**24**	**1-3**
JMA	VII	27 05 30 01.4±.1	37.57N±.01	141.57E±.02	78±3			¶97vii4066	
ISC	**VII**	**27 07 13 44.9**±.98	**36.61N**±.054	**141.4E**±.10	**37**			**35**	**1-3**
JMA	VII	27 07 13 44.5±.2	36.62N±.01	141.30E±.02	37±3	3.3		¶97vii4076	
JMA	**VII**	**27 08 12 03.5**±.3	**36.15N**±.01	**140.12E**±.02	**65**±2			¶97vii4082	
ISC	**VII**	**27 11 09 55**±1.4	**36.73N**±.029	**141.57E**±.057	**3**±9.3			**83**	**1-8**
JMA	VII	27 11 09 58.7±.3	36.71N±.01	141.32E±.03	38±5	3.9		¶97vii4097	
ISC	**VII**	**27 11 50 38.7**±.93	**40.85N**±.039	**141.7E**±.11	**75**±24			**23**	**0-4**
JMA	VII	27 11 50 38.9±.0	40.84N±.00	141.64E±.01	72			¶97vii4102	
ISC	**VII**	**27 23 39 41**±9.6	**36.5N**±.39	**141.3E**±.87	**42**			**9**	**1-2**
JMA	VII	27 23 39 41.3±.3	36.54N±.01	141.27E±.03	42±4	2.9		¶97vii4180	
ISC	**VII**	**28 03 05 17**±2.5	**40.0N**±.17	**142.0E**±.35	**61**			**8**	**0-1**
JMA	VII	28 03 05 16.6±.2	39.97N±.01	142.07E±.02	61±2	2.2		¶97vii4198	
ISC	**VII**	**28 06 53 03**±1.2	**36.25N**±.084	**140.8E**±.16	**31**±14			**10**	**0-2**
JMA	VII	28 06 53 02.8±.2	36.25N±.01	140.77E±.02	37±3	3.1		¶97vii4221	
ISC	**VII**	**28 07 37 54**±1.1	**36.21N**±.058	**140.9E**±.10	**18**±12			**22**	**0-3**
JMA	VII	28 07 37 53.2±.2	36.17N±.01	140.96E±.02	41±4	3.0		¶97vii4231	
ISC	**VII**	**28 08 47 02**±1.3	**34.80N**±.077	**140.13E**±.073	**55**±18			**28**	**0-3**
JMA	VII	28 08 47 01.2±.2	34.81N±.01	140.10E±.01	64±2			¶97vii4237	
JMA	**VII**	**28 09 50 57.7**±.4	**36.06N**±.02	**140.97E**±.02	**71**±3			¶97vii4245	
ISC	**VII**	**28 12 48 08**±2.0	**37.92N**±.083	**141.1E**±.17	**69**±27			**12**	**0-2**
JMA	VII	28 12 48 07.6±.0	37.91N±.00	141.11E±.01	72±1			¶97vii4274	
ISC	**VII**	**28 13 04 41**±4.1	**37.7N**±.22	**141.4E**±.43	**88**±41			**9**	**1-2**
JMA	VII	28 13 04 40.9±.2	37.69N±.01	141.36E±.03	86±2			¶97vii4277	
JMA	**VII**	**28 13 24 32.5**±.2	**36.05N**±.02	**140.43E**±.02	**36**±3	**2.9**		¶97vii4279	
ISC	**VII**	**29 06 03 48**±3.0	**36.3N**±.35	**140.3E**±.35	**99**			**6**	**0-2**
JMA	VII	29 06 03 47.6±.4	36.29N±.02	140.34E±.03	99±4			¶97vii4389	
JMA	**VII**	**29 08 20 41.2**±.5	**35.49N**±.02	**140.04E**±.03	**79**±5			¶97vii4406	

Agency		Origin Time				φ	λ	h	Mag	n	Δ-Rng
	mo	d	h	m	s	°	°	km			°
ISC	**VII**	**29**	**09**	**42**	**05**±1.1	**35.3N**±.13	**140.1E**±.16	**67**		**8**	**0-1**
JMA	VII	29	09	42	04.8±.4	35.28N±.02	140.12E±.02	67±4		**¶97vii4415**	
ISC	**VII**	**29**	**13**	**54**	**23**±2.6	**35.65N**±.091	**140.2E**±.14	**80**±33		**12**	**0-2**
JMA	VII	29	13	54	23.3±.3	35.68N±.01	140.13E±.02	68±3		**¶97vii4437**	
ISC	**VII**	**29**	**14**	**01**	**56**±1.5	**38.9N**±.12	**141.7E**±.26	**67**		**11**	**0-1**
JMA	VII	29	14	01	56.3±.2	38.94N±.00	141.72E±.01	67±2		**¶97vii4438**	
ISC	**VII**	**29**	**15**	**30**	**55.0**±.97	**35.97N**±.058	**140.18E**±.075	**57**±24		**28**	**1-4**
JMA	VII	29	15	30	54.5±.1	35.95N±.01	140.16E±.01	63±2		**¶97vii4448**	
ISC	**VII**	**29**	**22**	**39**	**14**±1.4	**36.24N**±.085	**141.0E**±.19	**35**		**9**	**1-2**
JMA	VII	29	22	39	14.3±.1	36.27N±.01	140.93E±.02	35±4	2.8	**¶97vii4495**	
ISC	**VII**	**30**	**00**	**17**	**53**±2.2	**38.40N**±.063	**142.6E**±.24	**10**		**16**	**1-3**
JMA	VII	30	00	17	51.1±.4	38.36N±.01	142.73E±.03	10±4	3.0	**¶97vii4507**	
ISC	**VII**	**30**	**02**	**37**	**18**±1.2	**35.67N**±.069	**140.8E**±.12	**46**±19		**17**	**0-4**
JMA	VII	30	02	37	17.1±.4	35.70N±.02	140.75E±.05	48±4	2.8	**¶97vii4520**	
ISC	**VII**	**30**	**03**	**48**	**25.6**±.90	**36.08N**±.044	**140.69E**±.075	**98**±15		**39**	**0-4**
JMA	VII	30	03	48	26.4±.2	36.07N±.01	140.60E±.02	88±3		**¶97vii4528**	
ISC	**VII**	**30**	**07**	**51**	**50**±1.6	**34.8N**±.11	**140.10E**±.089	**62**±20		**22**	**0-2**
JMA	VII	30	07	51	49.9±.2	34.78N±.02	140.08E±.01	62±3		**¶97vii4549**	
ISC	**VII**	**30**	**08**	**42**	**17**±1.4	**34.01N**±.098	**140.75E**±.096	**76**±14		**40**	**1-6**
JMA	VII	30	08	42	18.9±.3	34.08N±.01	140.53E±.02	61±4		**¶97vii4559**	
ISC	**VII**	**30**	**08**	**45**	**37**±3.1	**38.72N**±.067	**142.3E**±.27	**21**±15		**15**	**1-2**
JMA	VII	30	08	45	37.2±.3	38.72N±.01	142.28E±.03	36±4	2.9	**¶97vii4560**	
ISC	**VII**	**30**	**10**	**38**	**35**±1.6	**36.16N**±.081	**141.1E**±.17	**38**		**11**	**0-2**
JMA	VII	30	10	38	34.6±.2	36.18N±.01	141.02E±.02	38±4	3.1	**¶97vii4569**	
ISC	**VII**	**30**	**10**	**38**	**58**±6.4	**37.7N**±.49	**141.5E**±.48	**82**		**6**	**1-1**
JMA	VII	30	10	38	58.7±.4	37.75N±.03	141.47E±.04	82		**¶97vii4570**	
ISC	**VII**	**30**	**14**	**59**	**46**±2.9	**38.95N**±.099	**141.3E**±.18	**73**±30		**11**	**0-1**
JMA	VII	30	14	59	46.1±.2	38.94N±.01	141.37E±.02	76±2		**¶97vii4593**	
ISC	**VII**	**30**	**19**	**28**	**45**±1.5	**36.21N**±.080	**141.1E**±.17	**40**		**11**	**1-2**
JMA	VII	30	19	28	44.9±.2	36.22N±.01	141.02E±.02	40±3	2.8	**¶97vii4627**	
ISC	**VII**	**30**	**21**	**11**	**36.0**±.64	**39.68N**±.047	**142.3E**±.10	**43**±27		**28**	**0-4**
JMA	VII	30	21	11	36.7±.2	39.71N±.01	142.14E±.02	50±2	3.0	**¶97vii4633**	
ISC	**VII**	**31**	**05**	**23**	**56**±1.1	**36.59N**±.035	**141.32E**±.073	**19**±10	3.4b	**54**	**1-57**
JMA	VII	31	05	23	55.7±.3	36.59N±.01	141.32E±.03	39±4	3.7	**¶97vii4680**	
EIDC	VII	31	05	23	57.1	35.9N	141.0E	0	3.3b,3.8L		
NEIC	VII	31	05	23	59.6	35.78N	140.87E	33			
NEIC	Less reliable solution.										
ISC	**VII**	**31**	**07**	**22**	**31**±1.2	**36.67N**±.071	**141.4E**±.13	**37**		**25**	**1-3**
JMA	VII	31	07	22	30.3±.3	36.66N±.01	141.43E±.03	37±5	3.4	**¶97vii4695**	
ISC	**VII**	**31**	**07**	**23**	**10**±2.4	**36.66N**±.098	**141.3E**±.35	**37**		**13**	**1-2**
JMA	VII	31	07	23	09.5±.3	36.66N±.01	141.32E±.03	37	3.0	**¶97vii4696**	
ISC	**VII**	**31**	**11**	**44**	**39**±1.2	**40.47N**±.054	**141.3E**±.14	**79**±18		**18**	**0-3**
JMA	VII	31	11	44	38.8±.1	40.47N±.00	141.34E±.01	84±2		**¶97vii4727**	
ISC	**VIII**	**01**	**05**	**26**	**02**±1.1	**36.30N**±.052	**141.0E**±.11	**20**±11		**22**	**0-4**
JMA	VIII	01	05	26	01.9±.1	36.31N±.01	141.07E±.02	40±3	3.0	**¶97viii0027**	
ISC	**VIII**	**01**	**11**	**33**	**52**±1.9	**35.0N**±.11	**140.1E**±.11	**64**±25		**18**	**0-2**
JMA	VIII	01	11	33	52.1±.2	34.95N±.01	140.03E±.01	66±2		**¶97viii0054**	
ISC	**VIII**	**01**	**12**	**16**	**43**±3.0	**37.3N**±.14	**141.9E**±.29	**43**		**12**	**1-2**
JMA	VIII	01	12	16	43.4±.3	37.28N±.02	141.84E±.03	43	2.8	**¶97viii0061**	
ISC	**VIII**	**01**	**16**	**22**	**00**±3.2	**39.54N**±.069	**142.3E**±.29	**16**±18		**16**	**0-3**
JMA	VIII	01	16	22	00.5±.2	39.54N±.01	142.20E±.02	25±2	2.9	**¶97viii0091**	
ISC	**VIII**	**01**	**17**	**58**	**39**±2.8	**38.4N**±.11	**141.1E**±.23	**70**±32		**10**	**0-1**
JMA	VIII	01	17	58	38.9±.2	38.39N±.01	141.14E±.02	73±2		**¶97viii0100**	
ISC	**VIII**	**01**	**19**	**19**	**27.3**±.51	**35.87N**±.041	**140.26E**±.068	**56**		**26**	**1-4**
JMA	VIII	01	19	19	26.8±.2	35.88N±.01	140.23E±.02	56±3	2.8	**¶97viii0104**	
ISC	**VIII**	**02**	**13**	**53**	**28.1**±.96	**36.11N**±.057	**140.23E**±.079	**69**±18		**28**	**1-4**
JMA	VIII	02	13	53	28.1±.1	36.08N±.01	140.18E±.01	68±2		**¶97viii0219**	
ISC	**VIII**	**02**	**17**	**39**	**13.7**±.67	**35.40N**±.043	**140.54E**±.059	**62**±11		**57**	**0-5**
JMA	VIII	02	17	39	13.4±.2	35.42N±.01	140.46E±.02	66±2		**¶97viii0243**	
ISC	**VIII**	**02**	**20**	**25**	**37**±4.7	**34.7N**±.31	**140.1E**±.20	**77**±53		**11**	**0-1**
JMA	VIII	02	20	25	38.0±.3	34.78N±.02	140.08E±.01	62±3		**¶97viii0255**	
ISC	**VIII**	**02**	**23**	**20**	**04**±2.3	**38.63N**±.061	**142.6E**±.24	**13**		**16**	**1-3**
JMA	VIII	02	23	20	01.9±.4	38.57N±.01	142.78E±.03	13±5	2.8	**¶97viii0269**	
ISC	**VIII**	**03**	**05**	**42**	**02**±1.3	**34.81N**±.078	**140.12E**±.095	**59**±19		**23**	**0-2**
JMA	VIII	03	05	42	01.6±.2	34.78N±.01	140.10E±.01	63±3		**¶97viii0309**	
ISC	**VIII**	**03**	**06**	**35**	**12**±3.3	**38.6N**±.10	**142.7E**±.31	**11**		**12**	**1-2**
JMA	VIII	03	06	35	10.8±.4	38.58N±.01	142.83E±.03	11	2.9	**¶97viii0320**	
ISC	**VIII**	**03**	**06**	**51**	**45**±2.2	**34.34N**±.084	**140.2E**±.14	**69**±31		**15**	**1-3**
JMA	VIII	03	06	51	45.3±.2	34.34N±.01	140.12E±.02	61±4	2.5	**¶97viii0325**	
ISC	**VIII**	**03**	**08**	**49**	**31**±3.0	**35.49N**±.084	**140.2E**±.11	**88**±34		**12**	**0-1**
JMA	VIII	03	08	49	32.3±.2	35.51N±.01	140.13E±.02	71±3		**¶97viii0337**	
ISC	**VIII**	**03**	**10**	**11**	**35**±1.4	**35.57N**±.077	**140.1E**±.10	**74**±21		**21**	**0-2**
JMA	VIII	03	10	11	34.6±.2	35.60N±.01	140.07E±.02	74±3		**¶97viii0349**	
ISC	**VIII**	**03**	**13**	**55**	**36**±1.1	**36.37N**±.042	**141.04E**±.082	**21**±9.8		**43**	**0-4**
JMA	VIII	03	13	55	35.9±.2	36.36N±.01	141.01E±.02	44±3	3.4	**¶97viii0369**	
ISC	**VIII**	**03**	**14**	**04**	**34**±1.2	**36.35N**±.064	**141.0E**±.12	**28**±10		**19**	**0-3**
JMA	VIII	03	14	04	33.9±.2	36.36N±.01	141.01E±.02	44±3	2.8	**¶97viii0370**	
ISC	**VIII**	**03**	**18**	**53**	**52**±2.0	**38.8N**±.19	**141.2E**±.58	**75**		**8**	**0-1**
JMA	VIII	03	18	53	51.9±.2	38.83N±.01	141.20E±.02	75±2		**¶97viii0398**	
ISC	Poorly determined										
ISC	**VIII**	**03**	**22**	**11**	**41.0**±.94	**35.57N**±.057	**140.17E**±.062	**76**±15		**32**	**0-4**
JMA	VIII	03	22	11	40.9±.2	35.58N±.01	140.13E±.01	74±3		**¶97viii0417**	
ISC	**VIII**	**03**	**22**	**40**	**47**±2.3	**39.91N**±.087	**142.7E**±.19	**16**±16		**15**	**1-3**
JMA	VIII	03	22	40	48.3±.3	39.90N±.01	142.62E±.02	31±3	2.9	**¶97viii0422**	
ISC	**VIII**	**04**	**01**	**53**	**05**±1.0	**35.69N**±.094	**140.1E**±.15	**80**		**9**	**1-1**
JMA	VIII	04	01	53	05.1±.4	35.67N±.02	140.04E±.03	80±5		**¶97viii0444**	
JMA	**VIII**	**04**	**03**	**22**	**52.2**±.4	**36.15N**±.02	**140.02E**±.02	**62**±3		**¶97viii0451**	
ISC	**VIII**	**04**	**03**	**37**	**09**±1.1	**34.79N**±.063	**140.11E**±.080	**54**±18		**26**	**0-2**
JMA	VIII	04	03	37	08.4±.2	34.79N±.01	140.10E±.01	64±2		**¶97viii0452**	
ISC	**VIII**	**04**	**06**	**55**	**34**±1.5	**38.18N**±.087	**141.2E**±.24	**67**±23		**12**	**0-2**
JMA	VIII	04	06	55	33.8±.1	38.17N±.01	141.19E±.02	69±1		**¶97viii0469**	
ISC	**VIII**	**04**	**09**	**45**	**47**±1.3	**37.33N**±.063	**141.9E**±.14	**16**		**27**	**1-4**
JMA	VIII	04	09	45	44.1±.4	37.26N±.01	142.09E±.02	16±4	3.0	**¶97viii0486**	
ISC	**VIII**	**04**	**11**	**31**	**45**±1.6	**35.43N**±.082	**140.5E**±.13	**58**±23		**13**	**0-2**
JMA	VIII	04	11	31	44.3±.2	35.44N±.01	140.44E±.02	61±2	2.3	**¶97viii0502**	
ISC	**VIII**	**04**	**13**	**03**	**53.5**±.28	**36.30N**±.025	**140.08E**±.042	**91**±4.5	**3.6b**	**88**	**0-71**
EIDC	VIII	04	13	03	53.1	36.4N	140.1E	68	3.4b	**¶97viii0509**	
NEIC	VIII	04	13	03	53.3	36.25N	139.98E	86			
JMA	VIII	04	13	03	54.3±.1	36.28N±.00	140.04E±.01	76±2	3.0		
NEIC	Less reliable solution.										
ISC	**VIII**	**04**	**13**	**58**	**58.9**±.84	**35.78N**±.047	**140.19E**±.067	**59**±19		**32**	**0-4**
JMA	VIII	04	13	58	58.2±.2	35.77N±.01	140.16E±.02	66±3		**¶97viii0510**	
ISC	**VIII**	**04**	**15**	**49**	**12**±2.7	**37.2N**±.16	**141.1E**±.64	**89**		**11**	**0-2**
JMA	VIII	04	15	49	12.2±.3	37.17N±.01	141.01E±.03	89±3		**¶97viii0519**	
ISC	**VIII**	**04**	**17**	**16**	**53**±3.2	**40.9N**±.25	**141.7E**±.34	**100**		**9**	**0-2**
JMA	VIII	04	17	16	53.3±.3	40.83N±.02	141.69E±.04	100±3		**¶97viii0523**	
ISC	**VIII**	**04**	**19**	**23**	**47.6**±.82	**36.23N**±.043	**140.97E**±.095	**36**		**30**	**1-3**
JMA	VIII	04	19	23	46.8±.2	36.21N±.01	140.94E±.03	36±4	3.1	**¶97viii0536**	
ISC	**VIII**	**04**	**22**	**38**	**14.1**±.90	**36.03N**±.096	**140.1E**±.15	**97**		**8**	**1-1**
JMA	VIII	04	22	38	14.2±.1	36.05N±.01	140.10E±.01	97±2		**¶97viii0565**	
JMA	**VIII**	**05**	**03**	**32**	**02.5**±.4	**35.60N**±.02	**140.24E**±.03	**61**±3		**¶97viii0610**	
JMA	**VIII**	**05**	**11**	**32**	**35.4**±.3	**36.44N**±.02	**140.54E**±.02	**83**±3		**¶97viii0663**	
ISC	**VIII**	**05**	**15**	**46**	**58**±1.3	**36.72N**±.070	**141.4E**±.14	**35**		**24**	**1-3**
JMA	VIII	05	15	46	56.4±.3	36.72N±.01	141.42E±.03	35	3.0	**¶97viii0685**	
ISC	**VIII**	**05**	**19**	**59**	**30.1**±.52	**40.29N**±.035	**142.96E**±.081	**19**		**47**	**1-6**
JMA	VIII	05	19	59	31.9±.2	40.32N±.01	142.67E±.03	19	3.3	**¶97viii0707**	
ISC	**VIII**	**05**	**21**	**46**	**36**±1.4	**36.30N**±.062	**141.1E**±.13	**20**±11		**24**	**1-4**
JMA	VIII	05	21	46	35.4±.3	36.27N±.01	141.17E±.03	43±4	3.2	**¶97viii0719**	
ISC	**VIII**	**06**	**01**	**18**	**13**±1.4	**36.19N**±.079	**141.0E**±.17	**27**±13		**12**	**0-2**
JMA	VIII	06	01	18	12.6±.3	36.18N±.01	140.93E±.03	42±4	3.1	**¶97viii0745**	
ISC	**VIII**	**06**	**05**	**39**	**52**±1.8	**34.5N**±.11	**140.27E**±.093	**82**±18		**27**	**0-5**
JMA	VIII	06	05	39	52.8±.2	34.57N±.01	140.20E±.01	80±2		**¶97viii0758**	
ISC	**VIII**	**06**	**12**	**21**	**20**±1.8	**38.65N**±.091	**141.2E**±.26	**83**±23		**11**	**0-2**
JMA	VIII	06	12	21	20.4±.1	38.64N±.01	141.23E±.02	81±1		**¶97viii0798**	
ISC	**VIII**	**06**	**15**	**15**	**50**±1.6	**36.3N**±.23	**140.0E**±.24	**95**		**5**	**0-1**
JMA	VIII	06	15	15	50.4±.2	36.31N±.01	140.04E±.01	95±2		**¶97viii0814**	
ISC	Poorly determined										
ISC	**VIII**	**06**	**17**	**30**	**11**±4.5	**38.9N**±.17	**141.8E**±.39	**62**±44		**10**	**0-1**
JMA	VIII	06	17	30	11.4±.2	38.88N±.01	141.83E±.02	60±3	2.0	**¶97viii0826**	
ISC	**VIII**	**06**	**23**	**30**	**28**±2.2	**39.18N**±.070	**142.2E**±.27	**40**±48		**18**	**0-4**
JMA	VIII	06	23	30	27.7±.2	39.17N±.01	142.21E±.02	48±2	3.1	**¶97viii0853**	
ISC	**VIII**	**06**	**23**	**39**	**05**±3.6	**39.63N**±.097	**142.5E**±.33	**21**		**12**	**1-2**
JMA	VIII	06	23	39	02.9±.4	39.63N±.01	142.69E±.03	21±4	2.9	**¶97viii0854**	
ISC	**VIII**	**07**	**00**	**16**	**20.9**±.98	**36.38N**±.062	**141.0E**±.11	**45**		**28**	**0-4**
JMA	VIII	07	00	16	20.6±.2	36.35N±.01	140.97E±.02	45±3	3.2	**¶97viii0860**	
ISC	**VIII**	**07**	**00**	**26**	**30**±2.1	**38.12N**±.082	**142.3E**±.22	**37**		**21**	**1-3**
JMA	VIII	07	00	26	29.9±.3	38.15N±.01	142.23E±.03	37	3.3	**¶97viii0861**	
ISC	**VIII**	**07**	**02**	**09**	**00**±1.6	**38.7N**±.23	**141.4E**±.74	**98**		**9**	**0-1**
JMA	VIII	07	02	09	00.4±.2	38.73N±.01	141.52E±.02	98±2		**¶97viii0874**	
ISC	Poorly determined										
ISC	**VIII**	**07**	**10**	**33**	**06**±1.8	**34.7N**±.26	**140.1E**±.17	**63**		**8**	**0-2**
JMA	VIII	07	10	33	06.7±.5	34.82N±.03	140.10E±.02	63±5		**¶97viii0928**	
ISC	**VIII**	**07**	**12**	**40**	**21**±1.2	**40.60N**±.051	**141.4E**±.14	**80**±19		**18**	**0-2**
JMA	VIII	07	12	40	20.9±.1	40.59N±.00	141.36E±.02	84±2		**¶97viii0940**	
ISC	**VIII**	**07**	**17**	**50**	**19**±3.2	**37.2N**±.15	**141.2E**±.38	**63**±30		**9**	**0-2**
JMA	VIII	07	17	50	18.7±.3	37.18N±.01	141.18E±.03	63±3		**¶97viii0980**	
JMA	**VIII**	**07**	**18**	**53**	**13.7**±.3	**36.01N**±.01	**140.11E**±.02	**61**±2		**¶97viii0989**	
ISC	**VIII**	**07**	**19**	**49**	**41**±2.8	**36.22N**±.037	**141.88E**±.069	**11**±19	**3.7b**	**78**	**1-78**
EIDC	VIII	07	19	49	41.0	36.1N	141.6E	0	3.6b,3.3L	**¶97viii0993**	
JMA	VIII	07	19	49	42.9±.3	36.26N±.01	141.66E±.03	15	3.6		
NEIC	VIII	07	19	49	43.4	36.16N	141.70E	33			
NEIC	Less reliable solution.										
ISC	**VIII**	**07**	**19**	**54**	**54**±2.5	**36.3N**±.10	**141.4E**±.24	**20**±19		**10**	**1-3**
JMA	VIII	07	19	54	52.4±.4	36.17N±.02	141.54E±.04	63		**¶97viii0995**	
ISC	**VIII**	**07**	**22**	**35**	**20**±2.5	**36.3N**±.10	**141.5E**±.21	**17**±21		**12**	**1-3**
JMA	VIII	07	22	35	19.6±.5	36.20N±.02	141.54E±.05	52	2.8	**¶97viii1010**	
ISC	**VIII**	**08**	**08**	**29**	**42**±2.9	**37.0N**±.17	**141.2E**±.29	**99**±22		**18**	**0-3**
JMA	VIII	08	08	29	43.2±.3	37.00N±.01	141.11E±.03	88±3		**¶97viii1076**	
ISC	**VIII**	**08**	**10**	**49**	**10**±2.1	**36.1N**±.32	**140.0E**±.26	**67**		**4**	**1-1**
JMA	VIII	08	10	49	09.9±.2	36.11N±.01	140.00E±.01	67±2		**¶97viii1097**	
ISC	Poorly determined										
ISC	**VIII**	**08**	**12**	**35**	**11**±2.6	**38.96N**±.085	**141.6E**±.19	**111**±27		**17**	**0-2**
JMA	VIII	08	12	35	12.6±.1	38.96N±.01	141.54E±.02	97±2		**¶97viii1118**	
ISC	**VIII**	**08**	**17**	**10**	**50.2**±.32	**40.39N**±.022	**142.34E**±.057	**57**±3.7	**4.1b**,3.2s	**109**	**1-88**
BJI	VIII	08	17	10	48.1	40.34N	142.52E	62	4.5b	**¶97viii1137**	
NEIC	VIII	08	17	10	49.8	40.35N	142.40E	57	4.4b		
JMA	VIII	08	17	10	50.7±.1	40.39N±.01	142.19E±.02	47±3	4.1		
EIDC	VIII	08	17	10	51.8	40.4N	142.4E	58	3.7b,3.2s		
ISC	**VIII**	**08**	**17**	**25**	**33.9**±.46	**40.40N**±.037	**142.31E**±.088	**38**±51		**36**	**1-4**
JMA	VIII	08	17	25	34.2±.1	40.40N±.01	142.18E±.02	45±4	3.1	**¶97viii1141**	
ISC	**VIII**	**08**	**21**	**42**	**44**±3.5	**36.9N**±.22	**141.6E**±.43	**68**±36		**11**	**1-3**
JMA	VIII	08	21	42	44.6±.3	36.98N±.01	141.45E±.04	71±4		**¶97viii1169**	
ISC	**VIII**	**09**	**03**	**35**	**39**±2.2	**35.56N**±.080	**140.1E**±.10	**84**±25		**17**	**0-2**
JMA	VIII	09	03	35	39.1±.2	35.58N±.01	140.08E±.01	76±3		**¶97viii1197**	
ISC	**VIII**	**09**	**14**	**42**	**40**±4.6	**35.6N**±.24	**140.2E**±.24	**77**±45		**11**	**0-2**
JMA	VIII	09	14	42	41.0±.3	35.61N±.02	140.09E±.02	64±3		**¶97viii1271**	
ISC	**VIII**	**09**	**16**	**36**	**27.7**±.43	**40.74N**±.032	**142.81E**±.076	**17**		**45**	**1-5**
JMA	VIII	09	16	36	28.1±.3	40.77N±.01	142.64E±.02	17±5	3.5	**¶97viii1282**	
ISC	**VIII**	**10**	**00**	**50**	**34**±3.5	**39.57N**±.090	**142.2E**±.36	**39**±29		**11**	**0-2**
JMA	VIII	10	00	50	34.3±.2	39.56N±.01	142.08E±.03	40±2	3.1	**¶97viii1327**	
JMA	**VIII**	**10**	**06**	**39**	**59.2**±.3	**36.15N**±.02	**140.10E**±.02	**66**±3		**¶97viii1364**	
ISC	**VIII**	**10**	**12**	**29**	**28**±1.6	**40.40N**±.062	**142.2E**±.17	**30**±16		**19**	**1-3**
JMA	VIII	10	12	29	27.6±.2	40.41N±.01	142.25E±.02	38±3	2.9	**¶97viii1393**	
ISC	**VIII**	**10**	**16**	**10**	**50.2**±.64	**36.30N**±.040	**140.06E**±.059	**72**±14		**41**	**1-4**
JMA	VIII	10	16	10	50.1±.1	36.29N±.00	140.04E±.01	72±2		**¶97viii1423**	
JMA	**VIII**	**10**	**19**	**13**	**34.9**±.3	**36.17N**±.01	**140.08E**±.02	**63**±3		**¶97viii1445**	
ISC	**VIII**	**10**	**22**	**52**	**44**±1.8	**34.9N**±.12	**140.7E**±.11	**81**±18		**26**	**0-5**
JMA	VIII	10	22	52	46.0±.2	34.94N±.01	140.57E±.01	69±2		**¶97viii1474**	
JMA	**VIII**	**11**	**00**	**06**	**57.9**±.5	**37.74N**±.01	**141.14E**±.05	**63**±5		**¶97viii1479**	
ISC	**VIII**	**11**	**04**	**23**	**18.9**±.58	**35.82N**±.038	**140.83E**±.061	**71**±11		**60**	**0-8**
JMA	VIII	11	04	23	20.0±.2	35.87N±.01	140.69E±.03	51±3	3.6	**¶97viii1502**	
ISC	**VIII**	**11**	**09**	**26**	**57.9**±.39	**40.40N**±.030	**142.30E**±.074	**40**±37		**48**	**1-5**
JMA	VIII	11	09	26	58.1±.1	40.38N±.01	142.18E±.02	47±4	3.5	**¶97viii1538**	
ISC	**VIII**	**11**	**12**	**29**	**20**±1.2	**40.41N**±.031	**142.29E**±.075	**28**±14		**42**	**1-5**
JMA	VIII	11	12	29	20.2±.1	40.40N±.01	142.19E±.02	40±4	3.2	**¶97viii1561**	
ISC	**VIII**	**11**	**16**	**25**	**07**±1.2	**36.37N**±.051	**141.07E**±.096	**19**±9.9		**33**	**0-4**
JMA	VIII	11	16	25	06.6±.3	36.35N±.01	141.08E±.03	45±4	3.2	**¶97viii1586**	
ISC	**VIII**	**11**	**16**	**34**	**42**±2.3	**37.2N**±.12	**141.9E**±.20	**19**		**15**	**1-2**
JMA	VIII	11	16	34	41.9±.4	37.18N±.01	141.90E±.02	19±4	2.8	**¶97viii1588**	
ISC	**VIII**	**11**	**16**	**59**	**19.9**±.72	**34.93N**±.048	**140.08E**±.054	**66**±10		**42**	**0-5**
JMA	VIII	11	16	59	19.7±.1	34.94N±.01	140.04E±.01	69±2	2.7	**¶97viii1590**	
ISC	**VIII**	**11**	**23**	**45**	**52**±1.1	**35.68N**±.092	**140.1E**±.13	**68**		**9**	**0-2**
JMA	VIII	11	23	45	52.1±.3	35.67N±.01	140.09E±.02	68±3		**¶97viii1646**	
ISC	**VIII**	**12**	**00**	**14**	**15**±1.6	**36.4N**±.16	**140.5E**±.22	**90**		**11**	**0-3**
JMA	VIII	12	00	14	14.9±.2	36.40N±.01	140.52E±.02	90±2		**¶97viii1652**	
ISC	**VIII**	**12**	**01**	**45**	**26.9**±.61	**39.69N**±.048	**142.3E**±.10	**44**±25		**29**	**0-4**
JMA	VIII	12	01	45	27.6±.2	39.70N±.01	142.15E±.03	51±2	3.4	**¶97viii1661**	
ISC	**VIII**	**12**	**01**	**57**	**58**±3.0	**37.4N**±.14	**142.0E**±.32	**38**		**14**	**1-2**
JMA	VIII	12	01	57	57.2±.3	37.41N±.01	141.95E±.03	38	2.8	**¶97viii1662**	
ISC	**VIII**	**12**	**05**	**20**	**01**±1.4	**36.68N**±.076	**141.3E**±.17	**47**		**15**	**1-3**
JMA	VIII	12	05	19	59.8±.3	36.67N±.01	141.33E±.03	47	3.0	**¶97viii1684**	
ISC	**VIII**	**12**	**09**	**04**	**37**±2.5	**37.7N**±.13	**141.7E**±.38	**77**±31		**10**	**1-2**
JMA	VIII	12	09	04	36.8±.2	37.72N±.01	141.61E±.05	78±4		**¶97viii1708**	
ISC	**VIII**	**12**	**10**	**22**	**17**±2.6	**37.3N**±.13	**141.2E**±.36	**59**±36		**7**	**0-2**
JMA	VIII	12	10	22	16.8±.3	37.27N±.01	141.16E±.04	64±3		**¶97viii1721**	
ISC	**VIII**	**12**	**11**	**18**	**38**±2.7	**36.1N**±.11	**140.0E**±.17	**63**±38		**9**	**1-2**
JMA	VIII	12	11	18	37.6±.2	36.09N±.01	140.01E±.02	66±2		**¶97viii1732**	
ISC	**VIII**	**12**	**13**	**10**	**48**±1.4	**36.0N**±.10	**140.3E**±.13	**76**±23		**19**	**1-3**
JMA	VIII	12	13	10	48.3±.1	36.02N±.01	140.23E±.01	72±1		**¶97viii1756**	

ISC	**VIII 12 23 38 36**±1.2	**36.82N**±.068	**140.8E**±.13	**75**±16		**18**	**0-3**	
JMA	VIII 12 23 38 35.9±.1	36.83N±.01	140.73E±.02	72±2		**¶97viii1824**		
ISC	**VIII 12 23 48 25**±3.2	**35.6N**±.11	**140.1E**±.15	**79**±42		**11**	**0-1**	
JMA	VIII 12 23 48 26.1±.3	35.66N±.02	140.08E±.02	64±4		**¶97viii1826**		
ISC	**VIII 13 00 26 54**±1.3	**35.61N**±.065	**140.24E**±.089	**72**±20		**21**	**0-2**	
JMA	VIII 13 00 26 53.6±.2	35.62N±.01	140.19E±.02	70±3		**¶97viii1829**		
ISC	**VIII 13 02 33 54**±1.1	**35.2N**±.17	**140.1E**±.19	**81**		**8**	**0-1**	
JMA	VIII 13 02 33 54.0±.3	35.16N±.01	140.10E±.02	81±2		**¶97viii1841**		
ISC	**VIII 13 06 51 44.4**±.51	**40.97N**±.031	**142.03E**±.074	**52**±34		**37**	**1-4**	
JMA	VIII 13 06 51 44.3±.1	40.96N±.01	141.98E±.02	52	3.3	**¶97viii1865**		
JMA	**VIII 13 09 14 47.8**±.6	**38.39N**±.02	**142.35E**±.05	**30**	**2.8**	**¶97viii1884**		
ISC	**VIII 13 09 22 28**±1.9	**35.76N**±.064	**140.2E**±.11	**70**±27		**20**	**0-2**	
JMA	VIII 13 09 22 27.7±.3	35.75N±.01	140.18E±.02	67±4		**¶97viii1885**		
JMA	**VIII 13 09 23 07.9**±.4	**35.81N**±.03	**140.14E**±.04	**66**±4		**¶97viii1886**		
ISC	**VIII 13 17 53 10**±1.3	**37.60N**±.070	**141.3E**±.14	**62**±20		**21**	**0-2**	
JMA	VIII 13 17 53 09.2±.1	37.59N±.01	141.34E±.02	64±2		**¶97viii1944**		
ISC	**VIII 13 20 22 23**±5.6	**34.7N**±.78	**140.1E**±.53	**60**		**9**	**0-1**	
JMA	VIII 13 20 22 22.9±.4	34.77N±.03	140.08E±.01	60±4	1.6	**¶97viii1953**		
ISC	Poorly determined							
ISC	**VIII 13 20 56 41**±2.8	**39.95N**±.099	**142.0E**±.29	**38**±22		**13**	**0-2**	
JMA	VIII 13 20 56 41.2±.2	39.95N±.01	142.03E±.03	41±2	2.8	**¶97viii1956**		
ISC	**VIII 13 21 35 04**±4.7	**36.8N**±.30	**141.5E**±.48	**72**±33		**8**	**1-2**	
JMA	VIII 13 21 35 05.4±.4	36.93N±.03	141.36E±.05	73±4		**¶97viii1962**		
ISC	**VIII 13 21 39 37**±2.0	**35.58N**±.078	**140.2E**±.13	**74**±25		**16**	**0-2**	
JMA	VIII 13 21 39 36.7±.3	35.60N±.01	140.13E±.02	70±3		**¶97viii1963**		
ISC	**VIII 14 00 11 48**±1.8	**35.58N**±.077	**140.1E**±.10	**58**±37		**16**	**0-2**	
JMA	VIII 14 00 11 47.4±.2	35.59N±.01	140.14E±.02	65±3		**¶97viii1986**		
JMA	**VIII 14 03 48 22.8**±.2	**38.60N**±.01	**141.19E**±.03	**77**±2		**¶97viii1999**		
ISC	**VIII 14 05 15 52**±2.6	**36.3N**±.18	**140.9E**±.40	**44**		**5**	**0-1**	
JMA	VIII 14 05 15 52.0±.3	36.27N±.01	140.80E±.02	44±3	2.8	**¶97viii2008**		
ISC	Poorly determined							
ISC	**VIII 14 05 26 30.8**±.99	**35.68N**±.059	**140.79E**±.094	**50**±17		**31**	**0-4**	
JMA	VIII 14 05 26 30.6±.3	35.75N±.01	140.73E±.03	49±2	2.9	**¶97viii2011**		
ISC	**VIII 14 06 41 37**±3.0	**40.1N**±.11	**141.9E**±.26	**63**±24		**13**	**0-2**	
JMA	VIII 14 06 41 37.0±.2	40.04N±.01	141.83E±.02	59±2	2.8	**¶97viii2018**		
ISC	**VIII 14 06 48 43**±1.6	**35.44N**±.090	**141.7E**±.19	**62**		**19**	**1-5**	
JMA	VIII 14 06 48 43.5±.2	35.47N±.01	141.68E±.03	62		**¶97viii2020**		
ISC	**VIII 14 08 49 39.8**±.65	**38.76N**±.054	**142.0E**±.13	**82**±16		**30**	**0-5**	
JMA	VIII 14 08 49 41.4±.1	38.75N±.01	141.87E±.02	68±2		**¶97viii2030**		
ISC	**VIII 14 10 17 49**±2.0	**36.92N**±.097	**141.8E**±.18	**31**		**28**	**1-4**	
JMA	VIII 14 10 17 46.6±.4	36.83N±.01	141.94E±.03	31	3.1	**¶97viii2045**		
ISC	**VIII 14 11 35 47.8**±.50	**36.40N**±.032	**141.19E**±.067	**51**±18		**66**	**1-8**	
JMA	VIII 14 11 35 48.4±.2	36.41N±.01	141.04E±.02	36±3	3.7	**¶97viii2050**		
ISC	**VIII 14 18 46 59**±2.7	**36.1N**±.46	**140.1E**±.37	**93**		**6**	**1-1**	
JMA	VIII 14 18 46 58.8±.2	36.04N±.01	140.07E±.01	93±2		**¶97viii2098**		
ISC	Poorly determined							
ISC	**VIII 14 21 48 21**±5.7	**36.9N**±.25	**140.4E**±.29	**127**±53		**8**	**0-1**	
JMA	VIII 14 21 48 22.8±.3	36.88N±.01	140.37E±.02	107±3		**¶97viii2117**		
ISC	**VIII 15 00 48 53**±3.2	**36.4N**±.13	**140.4E**±.20	**119**±32		**11**	**0-3**	
JMA	VIII 15 00 48 54.9±.2	36.38N±.01	140.37E±.02	97±2		**¶97viii2139**		
ISC	**VIII 15 03 43 13**±2.1	**34.7N**±.65	**140.1E**±.21	**89**		**7**	**0-1**	
JMA	VIII 15 03 43 13.5±.2	34.81N±.02	140.07E±.01	89±2		**¶97viii2156**		
ISC	Poorly determined							
ISC	**VIII 15 09 44 03**±1.4	**35.81N**±.077	**141.0E**±.16	**29**±11		**15**	**0-3**	
JMA	VIII 15 09 44 02.5±.4	35.83N±.02	141.02E±.04	34±3	3.1	**¶97viii2194**		
ISC	**VIII 15 10 00 54**±2.8	**36.8N**±.15	**141.6E**±.25	**44**		**15**	**1-3**	
JMA	VIII 15 10 00 52.8±.4	36.73N±.02	141.70E±.04	44	2.8	**¶97viii2198**		
ISC	**VIII 15 14 50 11.5**±.95	**35.67N**±.061	**140.70E**±.091	**44**±20		**27**	**0-4**	
JMA	VIII 15 14 50 11.1±.3	35.74N±.01	140.66E±.03	48±3	2.9	**¶97viii2232**		
ISC	**VIII 15 16 08 20.4**±.44	**38.47N**±.027	**142.32E**±.061	**46**±4.1	**4.2b**	**130**	**1-146**	
MOS	VIII 15 16 08 18.6	38.4N	142.3E	35	4.8b	**¶97viii2235**		
BJI	VIII 15 16 08 19.4	38.21N	142.18E	44	4.5b			
NEIC	VIII 15 16 08 20.2	38.43N	142.16E	40	4.5b			
JMA	VIII 15 16 08 20.4±.1	38.44N±.00	142.22E±.01	46±2	4.1			
EIDC	VIII 15 16 08 22.0	38.4N	142.3E	43	3.9b,3.7L			
JMA	Felt I=II J1							
ISC	**VIII 16 00 45 40**±2.5	**36.09N**±.086	**140.1E**±.18	**64**±33		**14**	**1-2**	
JMA	VIII 16 00 45 39.7±.2	36.09N±.01	140.10E±.02	66±2		**¶97viii2298**		
ISC	**VIII 16 11 41 31**±1.9	**36.7N**±.13	**141.1E**±.20	**64**±19		**17**	**0-3**	
JMA	VIII 16 11 41 31.8±.2	36.77N±.01	140.97E±.02	62±2		**¶97viii2361**		
ISC	**VIII 16 17 20 30**±1.7	**34.8N**±.12	**140.14E**±.097	**58**±21		**19**	**0-2**	
JMA	VIII 16 17 20 29.9±.2	34.80N±.02	140.09E±.01	62±3		**¶97viii2394**		
ISC	**VIII 16 17 22 46.3**±.96	**36.65N**±.062	**141.1E**±.11	**45**		**28**	**0-3**	
JMA	VIII 16 17 22 46.1±.2	36.67N±.01	141.05E±.02	45±3	3.1	**¶97viii2395**		
JMA	**VIII 16 22 09 40.7**±.3	**35.96N**±.02	**140.16E**±.02	**60**±3	**1.9**	**¶97viii2425**		
ISC	**VIII 16 23 35 53**±1.3	**36.14N**±.081	**140.9E**±.15	**44**		**10**	**0-2**	
JMA	VIII 16 23 35 53.3±.3	36.16N±.01	140.89E±.03	44±4	2.8	**¶97viii2436**		
ISC	**VIII 17 00 13 11**±2.1	**37.19N**±.098	**142.0E**±.20	**23**		**21**	**1-3**	
JMA	VIII 17 00 13 11.2±.3	37.22N±.01	141.92E±.03	23	3.1	**¶97viii2440**		
ISC	**VIII 17 00 36 55**±1.7	**35.66N**±.069	**140.2E**±.10	**77**±21		**20**	**0-2**	
JMA	VIII 17 00 36 55.5±.3	35.65N±.01	140.12E±.02	71±3		**¶97viii2444**		
ISC	**VIII 17 00 47 43**±2.2	**38.3N**±.10	**141.2E**±.30	**73**±29		**9**	**0-1**	
JMA	VIII 17 00 47 42.9±.1	38.27N±.00	141.17E±.02	72±1		**¶97viii2446**		
ISC	**VIII 17 03 14 55**±2.1	**35.57N**±.084	**140.1E**±.12	**77**±26		**17**	**0-2**	
JMA	VIII 17 03 14 54.9±.3	35.58N±.01	140.10E±.02	73±3		**¶97viii2474**		
ISC	**VIII 17 06 26 15**±3.8	**40.9N**±.16	**141.4E**±.29	**85**±39		**10**	**0-2**	
JMA	VIII 17 06 26 14.6±.2	40.90N±.01	141.36E±.03	89±2		**¶97viii2498**		
ISC	**VIII 17 13 26 24**±1.7	**37.45N**±.092	**141.7E**±.18	**39**		**18**	**1-3**	
JMA	VIII 17 13 26 23.5±.3	37.43N±.01	141.70E±.03	39	3.0	**¶97viii2546**		
ISC	**VIII 17 14 01 55**±2.4	**38.74N**±.064	**142.8E**±.24	**13**		**16**	**1-2**	
JMA	VIII 17 14 01 54.4±.4	38.74N±.01	142.85E±.03	13	3.0	**¶97viii2547**		
ISC	**VIII 17 14 41 37**±1.6	**36.1N**±.12	**140.1E**±.14	**59**±28		**12**	**1-2**	
JMA	VIII 17 14 41 36.6±.1	36.06N±.01	140.04E±.01	67±2		**¶97viii2550**		
ISC	**VIII 17 16 04 37**±1.5	**37.34N**±.071	**141.5E**±.20	**92**±20		**17**	**0-2**	
JMA	VIII 17 16 04 37.3±.2	37.36N±.01	141.44E±.03	82±3		**¶97viii2560**		
ISC	**VIII 17 16 07 33.5**±.31	**40.90N**±.026	**142.14E**±.064	**70**±7.5	**3.5b**	**54**	**1-66**	
EIDC	VIII 17 16 07 25.0	41.0N	142.8E	0	3.7b,2.8L	**¶97viii2561**		
NEIC	VIII 17 16 07 27.9	40.95N	142.75E	33				
JMA	VIII 17 16 07 33.7±.1	40.90N±.00	142.08E±.01	51±5	3.6			
NEIC	Less reliable solution.							
ISC	**VIII 18 01 36 46**±1.3	**36.57N**±.064	**141.1E**±.15	**93**±20		**16**	**0-3**	
JMA	VIII 18 01 36 46.7±.2	36.57N±.01	141.07E±.02	82±3		**¶97viii2609**		
ISC	**VIII 18 07 05 24**±1.3	**37.32N**±.073	**141.1E**±.14	**94**±14		**26**	**0-3**	
JMA	VIII 18 07 05 24.3±.2	37.32N±.01	141.13E±.02	87±2		**¶97viii2633**		
ISC	**VIII 18 17 27 01**±3.5	**39.18N**±.090	**142.4E**±.35	**94**±28		**17**	**1-2**	
JMA	VIII 18 17 27 02.5±.3	39.18N±.01	142.27E±.03	84±3		**¶97viii2697**		
ISC	**VIII 19 01 08 38**±1.1	**39.89N**±.077	**142.7E**±.13	**33**		**19**	**1-4**	
JMA	VIII 19 01 08 38.2±.4	39.89N±.01	142.54E±.03	33±4	3.1	**¶97viii2742**		
ISC	**VIII 19 03 16 50**±1.3	**34.84N**±.082	**140.13E**±.072	**59**±15		**27**	**0-2**	
JMA	VIII 19 03 16 49.1±.2	34.83N±.01	140.08E±.01	62±2		**¶97viii2753**		
ISC	**VIII 19 08 40 10**±1.1	**35.60N**±.064	**140.23E**±.073	**69**±17		**34**	**0-4**	
JMA	VIII 19 08 40 09.6±.2	35.62N±.01	140.18E±.01	69±2		**¶97viii2783**		
ISC	**VIII 19 16 27 59**±1.4	**36.73N**±.069	**140.06E**±.085	**129**±17		**30**	**0-3**	
JMA	VIII 19 16 28 00.2±.2	36.73N±.01	140.07E±.01	119±2		**¶97viii2837**		
ISC	**VIII 19 22 44 11**±3.0	**34.4N**±.36	**140.4E**±.13	**60**		**8**	**0-1**	
JMA	VIII 19 22 44 11.6±.2	34.48N±.02	140.35E±.01	60	2.5	**¶97viii2877**		
ISC	**VIII 19 23 09 11**±1.6	**38.50N**±.072	**141.3E**±.18	**83**±21		**15**	**0-2**	
JMA	VIII 19 23 09 11.1±.1	38.50N±.00	141.26E±.01	81±1		**¶97viii2878**		
ISC	**VIII 20 04 55 26**±2.7	**38.74N**±.065	**141.3E**±.16	**106**±30		**17**	**0-2**	
JMA	VIII 20 04 55 26.4±.2	38.74N±.01	141.33E±.02	106±2		**¶97viii2908**		
JMA	**VIII 20 05 21 21.4**±.3	**36.02N**±.02	**140.11E**±.02	**62**±3		**¶97viii2911**		
JMA	**VIII 20 05 22 03.4**±.3	**35.97N**±.01	**140.16E**±.02	**61**±3		**¶97viii2912**		
ISC	**VIII 20 06 39 35**±3.0	**35.6N**±.10	**140.2E**±.14	**76**±49		**10**	**1-2**	
JMA	VIII 20 06 39 35.5±.3	35.65N±.01	140.15E±.02	67±3		**¶97viii2923**		
ISC	**VIII 20 09 55 11**±1.8	**40.26N**±.065	**141.3E**±.23	**91**±23		**13**	**0-2**	
JMA	VIII 20 09 55 11.4±.1	40.26N±.00	141.33E±.01	89±1		**¶97viii2939**		
ISC	**VIII 20 19 34 21**±1.3	**39.90N**±.066	**142.6E**±.10	**19**±14		**23**	**1-4**	
JMA	VIII 20 19 34 22.9±.3	39.91N±.01	142.41E±.03	38±3	2.8	**¶97viii3005**		
ISC	**VIII 21 01 41 02**±2.1	**34.7N**±.55	**140.0E**±.20	**67**		**9**	**0-1**	
JMA	VIII 21 01 41 02.0±.3	34.79N±.03	140.08E±.01	67±4		**¶97viii3042**		
JMA	**VIII 21 01 48 07.7**±.4	**36.11N**±.02	**140.30E**±.03	**90**±4		**¶97viii3044**		
ISC	**VIII 21 13 09 29**±1.7	**34.9N**±.12	**140.1E**±.11	**62**±21		**23**	**0-2**	
JMA	VIII 21 13 09 28.3±.1	34.87N±.01	140.10E±.01	65±2		**¶97viii3097**		
ISC	**VIII 21 20 01 11.6**±.34	**36.43N**±.027	**140.85E**±.052	**65**±4.9	**3.7b**	**93**	**0-83**	
NEIC	VIII 21 20 01 12.0	36.34N	140.62E	66		**¶97viii3138**		
EIDC	VIII 21 20 01 12.2	36.4N	140.6E	48	3.5b,3.3L			
JMA	VIII 21 20 01 12.7±.1	36.42N±.01	140.69E±.02	51±2	3.9			
NEIC	Less reliable solution.							
JMA	Felt I=II J1							
ISC	**VIII 22 03 53 09**±1.4	**34.81N**±.087	**140.12E**±.083	**58**±19		**26**	**0-2**	
JMA	VIII 22 03 53 08.7±.2	34.81N±.01	140.08E±.01	60±2	2.9	**¶97viii3174**		
ISC	**VIII 22 03 54 56**±3.0	**36.7N**±.20	**140.8E**±.34	**106**±24		**14**	**0-3**	
JMA	VIII 22 03 54 57.1±.2	36.77N±.01	140.76E±.02	93±2		**¶97viii3175**		
JMA	**VIII 22 05 02 00.9**±.2	**38.11N**±.02	**141.06E**±.05	**77**		**¶97viii3180**		
ISC	**VIII 22 05 06 17**±1.7	**34.7N**±.35	**140.1E**±.15	**66**		**16**	**0-2**	
JMA	VIII 22 05 06 17.1±.2	34.80N±.02	140.08E±.01	66±3		**¶97viii3181**		
ISC	**VIII 22 05 29 21**±3.3	**39.75N**±.089	**142.4E**±.33	**31**±11		**16**	**0-3**	
JMA	VIII 22 05 29 20.6±.3	39.75N±.01	142.31E±.03	38±2	3.0	**¶97viii3182**		
ISC	**VIII 22 06 21 25**±2.1	**37.1N**±.12	**141.4E**±.25	**85**±20		**17**	**1-3**	
JMA	VIII 22 06 21 25.4±.3	37.16N±.01	141.40E±.04	80±4		**¶97viii3186**		
ISC	**VIII 22 06 24 36**±2.4	**36.2N**±.15	**140.3E**±.16	**44**±51		**12**	**0-2**	
JMA	VIII 22 06 24 36.4±.2	36.28N±.01	140.26E±.02	49±3	2.9	**¶97viii3187**		
ISC	**VIII 22 06 39 40**±5.2	**38.1N**±.17	**141.6E**±.38	**81**±56		**9**	**0-1**	
JMA	VIII 22 06 39 40.6±.3	38.10N±.01	141.56E±.03	72±4		**¶97viii3190**		
ISC	**VIII 22 08 11 23.8**±.23	**36.13N**±.021	**140.12E**±.033	**85**±2.6	**4.3b**	**170**	**0-153**	
EIDC	VIII 22 08 11 23.7	36.1N	140.0E	65	3.9b,3.3s	**¶97viii3198**		
NEIC	VIII 22 08 11 23.8	36.13N	139.91E	81	4.5b			
BJI	VIII 22 08 11 23.9	36.34N	140.24E	110	4.6b			
JMA	VIII 22 08 11 24.4±.1	36.12N±.01	140.11E±.01	72±2	4.1			
JMA	Felt I=II J1							
ISC	**VIII 22 09 48 47**±4.1	**36.8N**±.18	**141.9E**±.32	**8**		**12**	**1-2**	
JMA	VIII 22 09 48 44.8±.3	36.68N±.01	142.03E±.03	8±4	2.8	**¶97viii3205**		
JMA	**VIII 22 12 27 19.9**±.2	**35.97N**±.01	**140.08E**±.01	**61**±2	**2.2**	**¶97viii3224**		
JMA	**VIII 22 14 41 13.8**±.1	**36.60N**±.01	**140.51E**±.01	**75**±1		**¶97viii3239**		
ISC	**VIII 22 19 51 40**±2.9	**34.8N**±.18	**140.1E**±.14	**72**±32		**15**	**0-2**	
JMA	VIII 22 19 51 41.2±.2	34.78N±.02	140.09E±.01	64±3		**¶97viii3278**		
JMA	**VIII 23 00 50 36.8**±.3	**34.80N**±.03	**140.07E**±.01	**67**±4		**¶97viii3312**		
ISC	**VIII 23 02 07 42.2**±.88	**36.60N**±.049	**141.29E**±.097	**36**		**36**	**1-3**	
JMA	VIII 23 02 07 41.5±.3	36.58N±.01	141.27E±.03	36±4	3.4	**¶97viii3325**		
JMA	**VIII 23 06 08 20.9**±.46	**34.28N**±.040	**140.19E**±.043	**97**±4.8	**3.8b**	**94**	**1-93**	
NEIC	VIII 23 06 08 21.5	34.20N	140.05E	104		**¶97viii3350**		
JMA	VIII 23 06 08 22.3±.2	34.32N±.01	140.11E±.01	88±2	3.4			
EIDC	VIII 23 06 08 23.2	34.2N	140.0E	103	3.5b			
ISC	**VIII 23 12 52 30.4**±.45	**40.66N**±.033	**142.42E**±.078	**56**±30		**43**	**1-5**	
JMA	VIII 23 12 52 30.9±.1	40.67N±.00	142.30E±.01	45±4	3.3	**¶97viii3404**		
JMA	**VIII 23 18 06 21.8**±.3	**36.68N**±.02	**140.22E**±.02	**79**±3		**¶97viii3432**		
ISC	**VIII 23 18 54 11**±3.3	**35.4N**±.12	**140.1E**±.15	**94**±35		**10**	**0-2**	
JMA	VIII 23 18 54 12.4±.3	35.48N±.02	140.08E±.02	81±3		**¶97viii3439**		
ISC	**VIII 24 01 59 51**±1.1	**35.82N**±.076	**140.2E**±.12	**60**		**12**	**1-2**	
JMA	VIII 24 01 59 51.4±.2	35.83N±.01	140.20E±.02	60±3	2.3	**¶97viii3472**		
ISC	**VIII 24 05 02 44**±1.5	**38.39N**±.072	**141.2E**±.16	**72**±21		**12**	**0-2**	
JMA	VIII 24 05 02 43.9±.1	38.39N±.00	141.22E±.01	71±1		**¶97viii3482**		
ISC	**VIII 24 05 19 40**±4.7	**34.9N**±.25	**140.0E**±.18	**67**±50		**14**	**0-2**	
JMA	VIII 24 05 19 39.9±.2	34.92N±.01	140.03E±.01	67±2		**¶97viii3483**		
ISC	**VIII 24 08 23 58**±1.5	**37.75N**±.070	**141.1E**±.19	**62**±25		**14**	**0-2**	
JMA	VIII 24 08 23 57.9±.1	37.75N±.01	141.13E±.02	64±2		**¶97viii3498**		
JMA	**VIII 24 10 27 52.7**±.4	**35.80N**±.02	**140.33E**±.02	**88**±4		**¶97viii3516**		
ISC	**VIII 24 10 55 02**±2.1	**35.72N**±.083	**140.4E**±.12	**85**±31		**14**	**0-2**	
JMA	VIII 24 10 55 02.9±.2	35.71N±.01	140.34E±.01	72±2		**¶97viii3520**		
ISC	**VIII 24 12 04 59.8**±.45	**39.63N**±.030	**142.28E**±.071	**43**±10	**3.5b**	**58**	**0-47**	
NEIC	VIII 24 12 04 58.6	39.64N	142.43E	33		**¶97viii3525**		
EIDC	VIII 24 12 04 59.4	39.7N	142.4E	22	3.0L,3.8b			
JMA	VIII 24 12 05 00.3±.2	39.63N±.01	142.12E±.02	51±2	3.5			
NEIC	Less reliable solution.							
ISC	**VIII 24 22 09 48**±4.0	**38.8N**±.12	**141.4E**±.32	**73**±42		**7**	**0-1**	
JMA	VIII 24 22 09 48.6±.1	38.80N±.01	141.38E±.02	70±2		**¶97viii3598**		
ISC	**VIII 25 00 58 28**±1.3	**36.00N**±.071	**140.09E**±.080	**49**±40		**15**	**1-2**	
JMA	VIII 25 00 58 27.3±.1	35.99N±.01	140.08E±.01	61±2	2.6	**¶97viii3612**		
ISC	**VIII 25 02 45 47**±2.7	**37.9N**±.13	**141.0E**±.37	**73**±36		**9**	**0-2**	
JMA	VIII 25 02 45 47.0±.0	37.92N±.00	141.01E±.01	73±1		**¶97viii3627**		
JMA	**VIII 25 05 13 07.0**±.1	**34.86N**±.03	**140.08E**±.02	**71**		**¶97viii3648**		
ISC	**VIII 25 07 34 21**±1.3	**36.28N**±.076	**141.0E**±.14	**30**±12		**13**	**0-3**	
JMA	VIII 25 07 34 20.4±.2	36.27N±.01	141.01E±.02	42±3	2.8	**¶97viii3670**		
ISC	**VIII 25 13 06 24**±1.1	**34.6N**±.22	**140.2E**±.14	**84**		**6**	**0-1**	
JMA	VIII 25 13 06 23.8±.3	34.59N±.02	140.18E±.01	84±4		**¶97viii3692**		
ISC	**VIII 25 19 40 04**±1.8	**35.6N**±.12	**140.3E**±.11	**53**±35		**18**	**0-4**	
JMA	VIII 25 19 40 03.7±.1	35.64N±.01	140.31E±.01	66±2		**¶97viii3731**		
JMA	**VIII 26 01 43 30.3**±.2	**36.65N**±.01	**140.53E**±.01	**81**±2		**¶97viii3771**		
ISC	**VIII 26 10 52 57**±2.3	**37.6N**±.10	**141.4E**±.25	**81**±33		**14**	**0-2**	
JMA	VIII 26 10 52 57.6±.2	37.56N±.01	141.37E±.03	76±3		**¶97viii3835**		
ISC	**VIII 26 14 32 58**±1.6	**37.03N**±.084	**141.7E**±.16	**26**		**23**	**1-3**	
JMA	VIII 26 14 32 55.6±.4	36.97N±.01	141.86E±.03	26±4	2.9	**¶97viii3862**		
ISC	**VIII 26 16 04 37**±1.2	**34.79N**±.079	**140.79E**±.084	**70**±12		**38**	**0-5**	
JMA	VIII 26 16 04 38.1±.2	34.82N±.01	140.64E±.01	58±2	3.2	**¶97viii3875**		
ISC	**VIII 26 17 13 59**±2.6	**39.10N**±.066	**142.4E**±.30	**45**		**15**	**1-2**	
JMA	VIII 26 17 13 58.5±.2	39.10N±.01	142.42E±.02	45±3	2.8	**¶97viii3881**		
ISC	**VIII 26 18 47 06**±2.0	**38.03N**±.096	**141.5E**±.27	**62**±33		**11**	**0-2**	
JMA	VIII 26 18 47 06.2±.1	38.03N±.01	141.44E±.02	62±2		**¶97viii3888**		
ISC	**VIII 26 20 04 30**±2.5	**38.39N**±.098	**142.2E**±.27	**35**		**12**	**1-2**	
JMA	VIII 26 20 04 30.5±.3	38.42N±.01	142.18E±.03	35	2.9	**¶97viii3898**		

Agency		Origin Time				φ	λ	h	Mag	n	Δ-Rng
	mo	d	h	m	s	°	°	km			°
ISC	**VIII**	**27**	**03**	**37**	**05**±1.2	**35.70N**±.067	**140.7E**±.10	**52**±33		**21**	**0-4**
JMA	VIII	27	03	37	05.0±.3	35.71N±.01	140.65E±.04	52±3	2.8	¶97viii3933	
ISC	**VIII**	**27**	**09**	**46**	**32.5**±.96	**39.68N**±.056	**142.2E**±.14	**42**±22		**23**	**0-5**
JMA	VIII	27	09	46	32.8±.2	39.67N±.01	142.13E±.02	47±1	3.1	¶97viii3969	
ISC	**VIII**	**27**	**11**	**04**	**07**±1.8	**38.64N**±.071	**141.8E**±.18	**94**±20		**18**	**0-3**
JMA	VIII	27	11	04	07.3±.1	38.66N±.00	141.76E±.01	87±1		¶97viii3980	
ISC	**VIII**	**27**	**23**	**33**	**33**±2.1	**37.4N**±.11	**141.6E**±.22	**48**		**13**	**1-2**
JMA	VIII	27	23	33	32.8±.2	37.39N±.01	141.59E±.03	48±4	2.8	¶97viii4057	
JMA	**VIII**	**28**	**01**	**42**	**58.1**±.5	**34.79N**±.03	**140.09E**±.01	**67**±5		¶97viii4071	
ISC	**VIII**	**28**	**04**	**07**	**26**±2.3	**36.2N**±.11	**141.2E**±.25	**29**±17		**9**	**1-2**
JMA	VIII	28	04	07	25.5±.3	36.19N±.02	141.23E±.03	45±4	2.8	¶97viii4080	
JMA	**VIII**	**28**	**07**	**23**	**25.0**±.1	**40.36N**±.01	**141.02E**±.02	**103**±2		¶97viii4100	
ISC	**VIII**	**28**	**07**	**49**	**31**±3.8	**39.7N**±.13	**142.2E**±.35	**46**±32		**14**	**0-3**
JMA	VIII	28	07	49	31.3±.2	39.70N±.01	142.08E±.02	44±2	2.8	¶97viii4103	
ISC	**VIII**	**28**	**08**	**22**	**27**±1.2	**34.94N**±.064	**140.07E**±.093	**66**±16		**28**	**0-4**
JMA	VIII	28	08	22	27.1±.1	34.94N±.01	140.04E±.01	68±2		¶97viii4104	
ISC	**VIII**	**28**	**19**	**54**	**09.2**±.42	**38.99N**±.029	**142.42E**±.057	**17**	**4.1b**	**71**	**1-73**
JMA	VIII	28	19	54	08.5±.3	38.99N±.01	142.41E±.02	17±3	3.8	¶97viii4178	
NEIC	VIII	28	19	54	13.8	38.98N	142.29E	57	4.1b		
EIDC	VIII	28	19	54	15.8	39.0N	142.2E	54	3.8b,3.2L		
ISC	**VIII**	**28**	**22**	**15**	**01**±2.3	**37.71N**±.096	**141.9E**±.26	**40**		**11**	**1-2**
JMA	VIII	28	22	15	01.3±.3	37.72N±.01	141.81E±.03	40	3.2	¶97viii4190	
JMA	**VIII**	**29**	**01**	**01**	**07.8**±.4	**36.36N**±.02	**141.12E**±.04	**31**	**3.0**	¶97viii4212	
ISC	**VIII**	**29**	**04**	**32**	**57**±1.7	**36.1N**±.11	**141.1E**±.22	**29**±16		**8**	**0-2**
JMA	VIII	29	04	32	57.0±.2	36.15N±.01	141.04E±.02	35±4	2.9	¶97viii4233	
ISC	**VIII**	**29**	**06**	**33**	**15**±2.6	**38.7N**±.12	**141.2E**±.30	**80**±29		**10**	**0-2**
JMA	VIII	29	06	33	15.5±.1	38.68N±.01	141.18E±.02	79±2		¶97viii4244	
JMA	**VIII**	**29**	**08**	**25**	**39.2**±.0	**36.36N**±.01	**140.15E**±.00	**99**±1		¶97viii4253	
ISC	**VIII**	**29**	**08**	**40**	**56**±2.9	**34.7N**±.21	**140.7E**±.20	**62**±24		**13**	**0-2**
JMA	VIII	29	08	40	56.0±.3	34.67N±.03	140.68E±.02	64±3		¶97viii4254	
ISC	**VIII**	**29**	**11**	**37**	**41.7**±.56	**35.56N**±.035	**140.31E**±.053	**50**±14		**43**	**0-4**
JMA	VIII	29	11	37	40.6±.2	35.57N±.01	140.32E±.01	58±3	3.0	¶97viii4293	
ISC	**VIII**	**29**	**16**	**16**	**08**±2.5	**38.32N**±.081	**142.6E**±.25	**17**		**17**	**1-2**
JMA	VIII	29	16	16	07.8±.4	38.31N±.01	142.57E±.02	17±4	2.9	¶97viii4345	
ISC	**VIII**	**29**	**17**	**21**	**35.4**±.59	**36.09N**±.035	**140.58E**±.059	**103**±8.5	3.3b	**63**	**0-51**
EIDC	VIII	29	17	21	16.9	35.3N	141.5E	0	3.4b,3.8L	¶97viii4353	
JMA	VIII	29	17	21	35.9±.2	36.08N±.01	140.48E±.02	98±3	3.2		
ISC	**VIII**	**29**	**18**	**52**	**59.0**±.66	**35.53N**±.039	**140.14E**±.057	**78**±11		**43**	**0-5**
JMA	VIII	29	18	52	59.0±.2	35.54N±.01	140.08E±.01	75±2		¶97viii4364	
ISC	**VIII**	**29**	**22**	**09**	**18**±3.5	**36.4N**±.34	**140.6E**±.37	**85**		**8**	**0-2**
JMA	VIII	29	22	09	18.3±.1	36.39N±.01	140.54E±.01	85±2		¶97viii4384	
ISC	**VIII**	**30**	**11**	**53**	**06**±6.7	**36.1N**±.45	**140.8E**±.35	**123**±43		**13**	**1-3**
JMA	VIII	30	11	53	10.4±.4	36.33N±.04	140.68E±.05	98		¶97viii4477	
ISC	**VIII**	**30**	**13**	**30**	**37**±1.7	**38.65N**±.068	**141.9E**±.18	**67**±23		**16**	**0-2**
JMA	VIII	30	13	30	37.4±.1	38.64N±.00	141.87E±.01	65±1		¶97viii4489	
ISC	**VIII**	**30**	**16**	**02**	**05**±1.9	**37.5N**±.12	**141.5E**±.18	**47**		**19**	**1-6**
JMA	VIII	30	16	02	04.8±.2	37.49N±.01	141.51E±.02	47±3	3.1	¶97viii4511	
ISC	**VIII**	**31**	**00**	**45**	**07**±5.5	**38.8N**±.14	**141.6E**±.33	**112**±56		**10**	**0-1**
JMA	VIII	31	00	45	08.5±.2	38.85N±.01	141.58E±.03	98±3		¶97viii4560	
ISC	**VIII**	**31**	**02**	**55**	**21**±3.6	**37.9N**±.13	**141.5E**±.41	**90**±43		**9**	**1-2**
JMA	VIII	31	02	55	21.3±.1	37.95N±.01	141.48E±.02	87±2		¶97viii4574	
ISC	**VIII**	**31**	**06**	**17**	**08**±1.1	**36.20N**±.067	**141.0E**±.11	**46**		**25**	**1-4**
JMA	VIII	31	06	17	08.1±.2	36.20N±.01	140.98E±.02	46±3	3.1	¶97viii4597	
ISC	**VIII**	**31**	**11**	**23**	**56**±1.7	**36.96N**±.091	**141.8E**±.15	**10**		**23**	**1-3**
JMA	VIII	31	11	23	53.5±.5	36.93N±.01	141.97E±.04	10±5	2.8	¶97viii4645	
JMA	**VIII**	**31**	**14**	**32**	**06.5**±.4	**38.50N**±.02	**142.02E**±.05	**79**		¶97viii4668	
JMA	**VIII**	**31**	**17**	**44**	**58.7**±.3	**36.16N**±.02	**140.07E**±.02	**65**±3		¶97viii4687	
ISC	**VIII**	**31**	**20**	**35**	**46**±4.1	**36.7N**±.25	**141.5E**±.35	**78**±30		**13**	**1-3**
JMA	VIII	31	20	35	47.4±.3	36.72N±.02	141.37E±.04	71±4		¶97viii4703	
ISC	**VIII**	**31**	**21**	**23**	**43**±1.2	**36.19N**±.082	**141.0E**±.14	**32**±12		**15**	**0-3**
JMA	VIII	31	21	23	43.0±.3	36.21N±.01	140.97E±.03	40±4	2.8	¶97viii4712	
JMA	**VIII**	**31**	**21**	**26**	**01.6**±.3	**35.96N**±.02	**140.35E**±.01	**91**±2		¶97viii4714	
ISC	**IX**	**01**	**00**	**25**	**51**±3.2	**39.13N**±.075	**142.8E**±.31	**10**		**15**	**1-4**
JMA	IX	01	00	25	50.8±.4	39.09N±.01	142.84E±.04	10	3.2	¶97ix0006	
ISC	**IX**	**01**	**01**	**28**	**07**±2.1	**34.8N**±.11	**140.1E**±.12	**61**±27		**15**	**0-2**
JMA	IX	01	01	28	06.8±.2	34.80N±.01	140.10E±.01	63±3		¶97ix0016	
ISC	**IX**	**01**	**05**	**21**	**54**±1.0	**35.13N**±.060	**140.44E**±.084	**54**±16		**25**	**0-3**
JMA	IX	01	05	21	53.6±.2	35.15N±.01	140.40E±.02	54±2	3.1	¶97ix0052	
ISC	**IX**	**01**	**05**	**55**	**12**±3.8	**39.67N**±.095	**142.1E**±.38	**42**±48		**12**	**0-2**
JMA	IX	01	05	55	11.5±.2	39.66N±.00	142.11E±.02	46±2	2.8	¶97ix0055	
ISC	**IX**	**01**	**09**	**20**	**33.3**±.61	**36.13N**±.035	**140.13E**±.055	**70**±14		**45**	**1-4**
JMA	IX	01	09	20	33.2±.1	36.11N±.01	140.09E±.01	68±2	2.7	¶97ix0081	
ISC	**IX**	**01**	**11**	**21**	**46**±5.2	**38.5N**±.16	**141.4E**±.29	**77**±49		**11**	**0-1**
JMA	IX	01	11	21	46.3±.2	38.56N±.01	141.35E±.02	74±2		¶97ix0099	
ISC	**IX**	**01**	**15**	**26**	**40**±2.3	**35.8N**±.21	**140.1E**±.26	**68**		**5**	**1-1**
JMA	IX	01	15	26	39.9±.2	35.85N±.02	140.13E±.02	68±2		¶97ix0128	
ISC	**IX**	**01**	**17**	**46**	**12**±3.3	**36.8N**±.14	**141.8E**±.31	**35**		**15**	**1-3**
JMA	IX	01	17	46	11.5±.3	36.81N±.01	141.79E±.03	35	3.0	¶97ix0147	
ISC	**IX**	**01**	**21**	**04**	**05.7**±.96	**37.95N**±.051	**141.1E**±.12	**70**±15		**22**	**0-3**
JMA	IX	01	21	04	05.1±.1	37.94N±.01	141.08E±.02	76±2		¶97ix0163	
ISC	**IX**	**02**	**03**	**22**	**01**±2.8	**36.8N**±.21	**141.0E**±.45	**79**		**6**	**0-1**
JMA	IX	02	03	22	00.4±.3	36.82N±.01	140.97E±.03	79±2		¶97ix0213	
ISC	**IX**	**02**	**07**	**20**	**53**±1.0	**35.90N**±.067	**140.5E**±.10	**36**±46		**14**	**0-2**
JMA	IX	02	07	20	53.1±.1	35.91N±.01	140.47E±.01	36±2	2.9	¶97ix0234	
ISC	**IX**	**02**	**18**	**28**	**02**±2.3	**40.43N**±.057	**142.3E**±.23	**25**±16		**19**	**1-3**
JMA	IX	02	18	28	02.4±.2	40.43N±.01	142.27E±.03	40±5	2.9	¶97ix0311	
ISC	**IX**	**02**	**18**	**29**	**37**±1.4	**40.41N**±.056	**142.3E**±.10	**29**±17		**23**	**1-4**
JMA	IX	02	18	29	36.8±.1	40.43N±.01	142.29E±.02	40±4	3.0	¶97ix0312	
ISC	**IX**	**02**	**21**	**40**	**13**±1.5	**36.23N**±.097	**140.9E**±.20	**31**±15		**8**	**0-2**
JMA	IX	02	21	40	13.1±.2	36.24N±.01	140.91E±.02	40±4	2.8	¶97ix0333	
ISC	**IX**	**03**	**09**	**22**	**03**±1.0	**35.67N**±.051	**140.20E**±.066	**67**±18		**34**	**0-4**
JMA	IX	03	09	22	02.6±.2	35.68N±.01	140.17E±.01	70±3		¶97ix0407	
ISC	**IX**	**03**	**09**	**24**	**23**±6.6	**36.8N**±.27	**141.6E**±.49	**23**		**7**	**1-2**
JMA	IX	03	09	24	21.8±.6	36.78N±.02	141.70E±.04	23	2.8	¶97ix0408	
JMA	**IX**	**03**	**15**	**05**	**24.9**±.1	**36.52N**±.01	**140.41E**±.01	**98**±1		¶97ix0439	
JMA	**IX**	**03**	**15**	**16**	**50.2**±.2	**36.64N**±.01	**140.42E**±.01	**65**±2		¶97ix0441	
JMA	**IX**	**03**	**17**	**38**	**36.7**±.3	**35.66N**±.01	**140.12E**±.02	**63**±3		¶97ix0453	
ISC	**IX**	**03**	**17**	**50**	**15**±1.2	**36.45N**±.057	**141.2E**±.10	**22**±10		**30**	**1-4**
JMA	IX	03	17	50	15.6±.3	36.46N±.01	141.15E±.03	42±4	3.2	¶97ix0458	
ISC	**IX**	**03**	**18**	**03**	**48.1**±.69	**36.41N**±.052	**141.33E**±.093	**66**±18		**41**	**1-8**
JMA	IX	03	18	03	49.5±.3	36.46N±.01	141.15E±.03	41±4	3.6	¶97ix0460	
ISC	**IX**	**03**	**18**	**04**	**00**±5.1	**35.0N**±.22	**140.1E**±.23	**98**±41		**11**	**0-2**
JMA	IX	03	18	04	02.9±.2	34.94N±.02	140.04E±.01	71±3		¶97ix0461	
ISC	**IX**	**04**	**05**	**00**	**39**±1.1	**35.63N**±.058	**140.12E**±.074	**70**±17		**27**	**0-2**
JMA	IX	04	05	00	39.1±.2	35.64N±.01	140.09E±.02	70±3		¶97ix0546	
ISC	**IX**	**04**	**12**	**28**	**36**±1.6	**37.88N**±.073	**141.9E**±.20	**46**±58		**20**	**1-2**
JMA	IX	04	12	28	35.7±.1	37.88N±.00	141.85E±.01	55±3	3.2	¶97ix0588	
ISC	**IX**	**05**	**00**	**51**	**33**±1.1	**36.21N**±.034	**141.38E**±.067	**22**±9.4	**3.6b**	**59**	**1-60**
JMA	IX	05	00	51	31.7±.3	36.21N±.01	141.40E±.03	17	3.9	¶97ix0661	
NEIC	IX	05	00	51	34.8	35.77N	141.08E	33			
EIDC	IX	05	00	51	35.4	35.7N	141.0E	18	3.5b,3.4L		
ISC	**IX**	**05**	**03**	**32**	**51**±1.7	**37.8N**±.20	**141.5E**±.58	**119**±21		**10**	**1-63**
JMA	IX	05	03	32	53.9±.2	37.78N±.01	141.59E±.03	76±4		¶97ix0684	
ISC	**IX**	**05**	**09**	**49**	**58**±1.1	**38.8N**±.17	**141.6E**±.54	**148**±13	3.6b	**11**	**0-62**
JMA	IX	05	09	50	02.5±.2	38.80N±.01	141.56E±.04	107±3		¶97ix0728	
ISC	**IX**	**05**	**14**	**41**	**08**±1.2	**36.62N**±.052	**141.9E**±.12	**13**		**37**	**1-4**
JMA	IX	05	14	41	06.0±.4	36.63N±.01	142.02E±.03	13±5	3.1	¶97ix0757	
ISC	**IX**	**05**	**17**	**13**	**11**±1.2	**36.91N**±.059	**141.7E**±.12	**27**		**33**	**1-3**
JMA	IX	05	17	13	09.6±.3	36.88N±.01	141.72E±.03	27	3.2	¶97ix0774	
JMA	**IX**	**05**	**23**	**48**	**17.3**±.4	**34.77N**±.03	**140.13E**±.02	**74**±4		¶97ix0817	
ISC	**IX**	**06**	**06**	**16**	**18**±2.4	**34.6N**±.33	**140.1E**±.19	**52**±49		**13**	**0-2**
JMA	IX	06	06	16	17.5±.2	34.76N±.02	140.09E±.01	63±3		¶97ix0869	
JMA	**IX**	**06**	**08**	**16**	**39.3**±.1	**35.90N**±.01	**140.00E**±.01	**78**±2		¶97ix0885	
ISC	**IX**	**06**	**13**	**42**	**16**±2.0	**35.6N**±.29	**140.0E**±.27	**64**		**4**	**0-1**
JMA	IX	06	13	42	15.2±.4	35.68N±.02	140.09E±.03	64±4		¶97ix0922	
ISC	Poorly determined										
ISC	**IX**	**06**	**14**	**04**	**52**±2.5	**34.7N**±.20	**140.1E**±.13	**61**±31		**13**	**0-2**
JMA	IX	06	14	04	52.0±.2	34.77N±.02	140.09E±.01	63±3		¶97ix0930	
ISC	**IX**	**06**	**15**	**51**	**46**±5.7	**37.8N**±.30	**141.7E**±.73	**70**		**7**	**1-1**
JMA	IX	06	15	51	46.0±.3	37.85N±.01	141.67E±.03	70		¶97ix0940	
ISC	Poorly determined										
ISC	**IX**	**06**	**19**	**28**	**53**±1.1	**36.8N**±.22	**140.3E**±.28	**104**		**6**	**0-1**
JMA	IX	06	19	28	52.5±.3	36.84N±.01	140.29E±.02	104±3		¶97ix0956	
ISC	**IX**	**06**	**21**	**03**	**02**±3.6	**38.5N**±.15	**141.0E**±.31	**77**±40		**9**	**0-1**
JMA	IX	06	21	03	01.4±.2	38.45N±.01	141.05E±.02	79±2		¶97ix0967	
ISC	**IX**	**06**	**22**	**43**	**42**±1.4	**37.75N**±.075	**141.6E**±.19	**85**±19		**22**	**1-3**
JMA	IX	06	22	43	42.0±.1	37.76N±.01	141.58E±.02	78±3		¶97ix0977	
ISC	**IX**	**06**	**23**	**02**	**33.2**±.98	**38.21N**±.051	**141.2E**±.12	**72**±16		**20**	**0-3**
JMA	IX	06	23	02	33.1±.1	38.20N±.00	141.19E±.01	72±2		¶97ix0982	
ISC	**IX**	**07**	**07**	**32**	**11**±2.1	**35.9N**±.22	**140.9E**±.20	**7**±43		**8**	**0-2**
JMA	IX	07	07	32	10.1±.3	35.79N±.02	141.03E±.02	30±3	2.8	¶97ix1025	
JMA	**IX**	**07**	**09**	**00**	**09.1**±.3	**36.96N**±.02	**140.29E**±.02	**107**±4		¶97ix1034	
ISC	**IX**	**07**	**12**	**14**	**58**±1.7	**36.76N**±.091	**141.8E**±.16	**24**		**28**	**1-3**
JMA	IX	07	12	14	55.8±.3	36.72N±.01	141.95E±.02	24	3.1	¶97ix1061	
ISC	**IX**	**07**	**13**	**06**	**48**±2.8	**37.6N**±.15	**141.9E**±.27	**32**		**17**	**1-2**
JMA	IX	07	13	06	46.7±.3	37.55N±.02	141.92E±.03	32	3.2	¶97ix1069	
ISC	**IX**	**07**	**13**	**45**	**21**±1.8	**36.8N**±.18	**140.8E**±.32	**92**		**12**	**0-3**
JMA	IX	07	13	45	20.4±.3	36.75N±.01	140.82E±.03	92±3		¶97ix1074	
ISC	**IX**	**08**	**03**	**32**	**50**±2.3	**35.56N**±.077	**140.0E**±.11	**106**±28		**18**	**0-2**
JMA	IX	08	03	32	50.8±.2	35.56N±.01	139.99E±.01	100±2		¶97ix1165	
ISC	**IX**	**08**	**04**	**06**	**02.5**±.48	**36.36N**±.028	**141.12E**±.058	**40**±7.9	**3.7b**	**78**	**1-78**
NEIC	IX	08	04	06	01.5	36.23N	141.13E	33		¶97ix1170	
JMA	IX	08	04	06	02.6±.2	36.35N±.01	141.00E±.02	39±3	3.7		
EIDC	IX	08	04	06	05.9	36.3N	141.0E	54	3.5b,3.8L		
NEIC	Less reliable solution.										
ISC	**IX**	**08**	**07**	**15**	**48**±3.0	**36.8N**±.30	**140.8E**±.53	**62**		**6**	**0-1**
JMA	IX	08	07	15	47.8±.2	36.74N±.01	140.84E±.02	62±2		¶97ix1188	
ISC	**IX**	**08**	**08**	**03**	**53**±1.3	**36.33N**±.078	**141.0E**±.16	**40**±56		**15**	**0-3**
JMA	IX	08	08	03	52.9±.2	36.34N±.01	141.00E±.03	45±4	2.9	¶97ix1194	
ISC	**IX**	**08**	**12**	**47**	**46.3**±.56	**35.72N**±.035	**140.21E**±.050	**60**±13		**56**	**0-4**
JMA	IX	08	12	47	45.7±.2	35.73N±.01	140.16E±.01	68±3	2.9	¶97ix1222	
ISC	**IX**	**08**	**15**	**08**	**54**±1.6	**35.55N**±.075	**140.04E**±.093	**112**±22		**25**	**1-4**
JMA	IX	08	15	08	55.5±.2	35.55N±.01	140.01E±.01	99±2		¶97ix1240	
ISC	**IX**	**08**	**18**	**43**	**59**±2.8	**35.57N**±.093	**140.1E**±.14	**82**±34		**11**	**0-2**
JMA	IX	08	18	44	00.0±.3	35.59N±.01	140.09E±.02	72±3		¶97ix1263	
ISC	**IX**	**08**	**18**	**46**	**11.0**±.41	**40.35N**±.031	**142.26E**±.081	**39**±39		**43**	**1-4**
JMA	IX	08	18	46	11.2±.1	40.36N±.01	142.15E±.02	46±3	3.3	¶97ix1264	
ISC	**IX**	**08**	**18**	**50**	**08**±1.2	**40.36N**±.030	**142.26E**±.073	**32**±14		**45**	**1-5**
JMA	IX	08	18	50	08.0±.1	40.37N±.01	142.15E±.02	43±3	3.3	¶97ix1265	
ISC	**IX**	**08**	**20**	**16**	**28**±2.1	**40.04N**±.073	**141.8E**±.22	**63**±20		**14**	**0-2**
JMA	IX	08	20	16	28.0±.1	40.03N±.01	141.83E±.02	61±2	2.6	¶97ix1274	
ISC	**IX**	**09**	**04**	**27**	**28**±1.8	**36.7N**±.21	**140.6E**±.31	**82**		**6**	**0-1**
JMA	IX	09	04	27	28.2±.2	36.65N±.01	140.62E±.02	82±2		¶97ix1324	
ISC	**IX**	**09**	**09**	**56**	**59**±2.9	**40.22N**±.087	**142.2E**±.32	**32**±13		**14**	**0-2**
JMA	IX	09	09	56	59.0±.2	40.22N±.01	142.17E±.02	39±3	2.8	¶97ix1354	
ISC	**IX**	**09**	**18**	**13**	**09.5**±.93	**34.30N**±.067	**140.01E**±.077	**31**±9.9		**19**	**0-3**
JMA	IX	09	18	13	09.4±.1	34.32N±.01	139.98E±.01	47±4	2.8	¶97ix1423	
ISC	**IX**	**09**	**18**	**54**	**33**±1.7	**35.68N**±.080	**140.17E**±.095	**67**±25		**19**	**0-2**
JMA	IX	09	18	54	33.3±.2	35.70N±.01	140.18E±.02	64±3		¶97ix1426	
ISC	**IX**	**10**	**06**	**46**	**46.3**±.50	**39.94N**±.038	**142.3E**±.10	**67**±14		**37**	**0-5**
JMA	IX	10	06	46	47.4±.1	39.95N±.00	142.11E±.01	61±1	3.5	¶97ix1483	
ISC	**IX**	**10**	**09**	**37**	**39.7**±.50	**36.62N**±.032	**141.28E**±.068	**62**±13		**65**	**1-8**
JMA	IX	10	09	37	40.9±.2	36.62N±.01	141.08E±.03	52±4	3.5	¶97ix1507	
ISC	**IX**	**10**	**11**	**06**	**18**±1.9	**38.54N**±.075	**142.1E**±.22	**85**±21		**18**	**1-3**
JMA	IX	10	11	06	18.8±.1	38.55N±.01	142.00E±.02	80±2		¶97ix1513	
ISC	**IX**	**10**	**14**	**40**	**25**±4.1	**36.1N**±.15	**140.5E**±.18	**95**±43		**9**	**0-2**
JMA	IX	10	14	40	25.8±.3	36.17N±.01	140.50E±.02	90±3		¶97ix1532	
ISC	**IX**	**10**	**16**	**51**	**09**±7.6	**35.3N**±.83	**140.5E**±.55	**66**		**7**	**0-1**
JMA	IX	10	16	51	09.4±.4	35.29N±.02	140.40E±.03	66±4		¶97ix1550	
ISC	**IX**	**10**	**19**	**31**	**05**±3.2	**38.09N**±.088	**142.6E**±.34	**29**		**17**	**1-2**
JMA	IX	10	19	31	05.2±.4	38.13N±.01	142.47E±.04	29	2.8	¶97ix1569	
ISC	**IX**	**10**	**21**	**55**	**45**±4.5	**36.4N**±.50	**140.5E**±.50	**73**		**9**	**0-3**
JMA	IX	10	21	55	44.3±.2	36.34N±.01	140.52E±.01	73±2		¶97ix1583	
ISC	**IX**	**11**	**03**	**31**	**59.7**±.57	**36.30N**±.038	**140.08E**±.057	**76**±12		**50**	**1-8**
JMA	IX	11	03	31	59.8±.1	36.29N±.00	140.05E±.01	74±2		¶97ix1627	
ISC	**IX**	**11**	**05**	**38**	**07**±13	**36.1N**±.80	**141.1E**±.84	**40**		**7**	**1-2**
JMA	IX	11	05	38	09.1±.3	36.25N±.02	140.89E±.03	40±4	2.9	¶97ix1642	
ISC	**IX**	**11**	**12**	**34**	**47**±4.0	**38.0N**±.16	**142.1E**±.49	**63**		**7**	**1-2**
JMA	IX	11	12	34	47.7±.2	38.02N±.01	142.04E±.04	63±5		¶97ix1673	
ISC	**IX**	**11**	**13**	**09**	**40**±2.8	**35.4N**±.13	**140.5E**±.17	**80**±32		**12**	**0-2**
JMA	IX	11	13	09	40.7±.2	35.47N±.01	140.45E±.02	68±3		¶97ix1679	
ISC	**IX**	**11**	**18**	**33**	**01**±1.4	**36.67N**±.075	**141.3E**±.16	**37**		**15**	**1-3**
JMA	IX	11	18	32	59.7±.3	36.67N±.01	141.29E±.03	37±5	2.8	¶97ix1721	
ISC	**IX**	**11**	**20**	**26**	**29**±3.3	**38.5N**±.17	**141.7E**±.40	**65**±28		**11**	**0-2**
JMA	IX	11	20	26	29.8±.2	38.54N±.01	141.68E±.03	63±2		¶97ix1729	
ISC	**IX**	**12**	**09**	**20**	**53**±1.1	**36.60N**±.048	**140.13E**±.080	**124**±15		**31**	**0-3**
JMA	IX	12	09	20	53.6±.2	36.58N±.01	140.10E±.01	114±2		¶97ix1796	
ISC	**IX**	**12**	**09**	**38**	**39**±4.0	**40.4N**±.18	**141.4E**±.23	**80**±37		**12**	**0-2**
JMA	IX	12	09	38	38.0±.2	40.44N±.01	141.43E±.02	86±2		¶97ix1799	
ISC	**IX**	**12**	**14**	**35**	**51.5**±.52	**36.47N**±.037	**140.97E**±.073	**108**±9.7		**63**	**0-8**
JMA	IX	12	14	35	54.1±.1	36.47N±.01	140.77E±.01	72±2	2.9	¶97ix1826	
ISC	**IX**	**12**	**20**	**03**	**14**±2.8	**37.5N**±.15	**141.6E**±.26	**38**		**12**	**1-2**
JMA	IX	12	20	03	13.8±.3	37.53N±.01	141.59E±.02	38±4	2.8	¶97ix1868	
JMA	**IX**	**13**	**00**	**25**	**55.9**±.2	**36.76N**±.01	**140.08E**±.01	**103**±2		¶97ix1888	
ISC	**IX**	**13**	**02**	**52**	**14**±1.2	**35.52N**±.045	**141.07E**±.088	**33**±10		**32**	**0-4**
JMA	IX	13	02	52	13.9±.3	35.54N±.01	141.03E±.04	40±3	3.1	¶97ix1903	
ISC	**IX**	**13**	**05**	**17**	**30**±1.1	**36.56N**±.067	**141.3E**±.11	**40**		**30**	**1-3**
JMA	IX	13	05	17	29.0±.3	36.57N±.01	141.25E±.03	40±4	3.1	¶97ix1923	

JMA	**IX**	**13 07 19 32.0**±.2	**36.63N**±.02	**140.61E**±.02	**94**±2			**¶97ix1945**
JMA	**IX**	**13 18 05 23.0**±.1	**36.67N**±.00	**140.57E**±.01	**67**±1			**¶97ix2007**
ISC	**IX**	**13 18 49 25**±3.2	**36.6N**±.18	**141.4E**±.27	**30**		**16**	**1-3**
JMA	IX	13 18 49 24.4±.4	36.59N±.01	141.46E±.04	30±4	2.8		**¶97ix2018**
JMA	**IX**	**14 06 42 05.2**±.3	**36.17N**±.02	**140.09E**±.02	**66**±3			**¶97ix2084**
ISC	**IX**	**14 10 27 22**±4.9	**36.2N**±.26	**141.3E**±.37	**41**		**13**	**1-2**
JMA	IX	14 10 27 24.2±.3	36.35N±.02	141.13E±.03	41±4	2.8		**¶97ix2106**
ISC	**IX**	**14 10 33 42**±3.0	**39.9N**±.11	**142.1E**±.30	**62**±24		**13**	**0-2**
JMA	IX	14 10 33 42.1±.1	39.91N±.01	142.02E±.02	60±1	2.6		**¶97ix2107**
ISC	**IX**	**14 11 06 29**±1.9	**34.9N**±.15	**140.1E**±.11	**69**±21		**16**	**0-2**
JMA	IX	14 11 06 28.8±.2	34.92N±.01	140.05E±.01	74±2			**¶97ix2110**
ISC	**IX**	**14 12 07 20**±1.9	**35.9N**±.10	**141.1E**±.17	**87**±26		**17**	**0-4**
JMA	IX	14 12 07 21.1±.1	35.97N±.01	141.01E±.01	74±2			**¶97ix2121**
ISC	**IX**	**14 16 07 44**±1.7	**34.8N**±.13	**140.1E**±.10	**58**±20		**26**	**0-2**
JMA	IX	14 16 07 43.2±.2	34.79N±.01	140.10E±.01	64±2			**¶97ix2145**
ISC	**IX**	**14 18 10 38**±6.6	**36.3N**±.34	**142.0E**±.48	**32**		**14**	**1-3**
JMA	IX	14 18 10 35.1±.6	36.24N±.02	142.14E±.05	32	2.8		**¶97ix2155**
JMA	**IX**	**14 20 10 02.9**±.2	**36.76N**±.01	**140.53E**±.02	**95**±2			**¶97ix2164**
ISC	**IX**	**14 21 28 03**±2.6	**37.2N**±.13	**142.0E**±.24	**37**		**18**	**1-3**
JMA	IX	14 21 28 02.6±.3	37.20N±.01	141.95E±.03	37	3.2		**¶97ix2166**
ISC	**IX**	**15 01 22 50**±1.0	**35.66N**±.055	**140.34E**±.070	**79**±17		**32**	**0-4**
JMA	IX	15 01 22 50.5±.2	35.69N±.01	140.30E±.02	74±3			**¶97ix2184**
ISC	**IX**	**15 09 25 45**±1.1	**35.68N**±.060	**140.38E**±.076	**81**±17		**37**	**0-4**
JMA	IX	15 09 25 45.8±.2	35.72N±.01	140.31E±.01	74±2			**¶97ix2222**
ISC	**IX**	**15 14 29 37**±2.5	**38.54N**±.058	**142.8E**±.27	**18**		**20**	**1-4**
JMA	IX	15 14 29 35.7±.3	38.52N±.01	142.87E±.03	18	3.0		**¶97ix2253**
ISC	**IX**	**15 19 06 18**±2.6	**38.84N**±.083	**141.6E**±.30	**108**±28		**14**	**0-2**
JMA	IX	15 19 06 18.4±.2	38.84N±.01	141.63E±.03	99±2			**¶97ix2272**
ISC	**IX**	**15 22 08 42**±3.1	**38.9N**±.10	**141.4E**±.34	**113**±34		**13**	**0-2**
JMA	IX	15 22 08 42.2±.2	38.87N±.01	141.42E±.03	105±2			**¶97ix2289**
ISC	**IX**	**16 02 11 26**±8.8	**36.0N**±.23	**141.8E**±.81	**36**		**6**	**1-2**
JMA	IX	16 02 11 29.4±.9	36.08N±.03	141.44E±.08	36	2.8		**¶97ix2312**
ISC	**IX**	**16 04 27 10.2**±.80	**35.88N**±.048	**140.27E**±.071	**26**±10		**16**	**1-2**
JMA	IX	16 04 27 10.3±.1	35.88N±.01	140.27E±.01	41±2	2.9		**¶97ix2330**
ISC	**IX**	**16 09 52 52**±1.3	**36.16N**±.087	**140.1E**±.12	**61**±23		**17**	**1-2**
JMA	IX	16 09 52 52.0±.1	36.14N±.01	140.09E±.01	67±2			**¶97ix2367**
ISC	**IX**	**16 12 30 30**±1.9	**36.5N**±.12	**140.9E**±.19	**107**±16		**27**	**0-4**
JMA	IX	16 12 30 32.5±.2	36.62N±.01	140.75E±.02	90±3			**¶97ix2383**
ISC	**IX**	**16 19 21 26**±1.2	**38.64N**±.052	**141.6E**±.17	**66**±16		**20**	**0-3**
JMA	IX	16 19 21 25.9±.1	38.64N±.00	141.55E±.01	66±2			**¶97ix2421**
ISC	**IX**	**16 22 55 15**±3.0	**37.2N**±.15	**141.9E**±.29	**29**		**12**	**1-2**
JMA	IX	16 22 55 15.3±.4	37.24N±.02	141.89E±.03	29	2.8		**¶97ix2437**
ISC	**IX**	**17 10 45 00**±1.2	**39.90N**±.039	**142.55E**±.089	**18**±11		**35**	**1-4**
JMA	IX	17 10 45 01.5±.2	39.90N±.01	142.40E±.02	41±2	3.4		**¶97ix2501**
ISC	**IX**	**17 13 14 06**±2.7	**36.7N**±.16	**141.2E**±.25	**37**		**18**	**1-3**
JMA	IX	17 13 14 05.0±.3	36.65N±.01	141.30E±.03	37±4	2.9		**¶97ix2511**
ISC	**IX**	**18 03 57 17**±1.8	**40.13N**±.052	**142.3E**±.23	**33**		**15**	**0-3**
JMA	IX	18 03 57 16.2±.3	40.14N±.01	142.40E±.03	33±3	3.1		**¶97ix2611**
ISC	**IX**	**18 14 28 47**±3.8	**35.7N**±.17	**140.1E**±.19	**73**±42		**7**	**0-2**
JMA	IX	18 14 28 47.3±.3	35.71N±.01	140.10E±.02	65±3			**¶97ix2671**
ISC	**IX**	**18 17 09 41**±3.5	**37.2N**±.18	**141.8E**±.33	**44**		**9**	**1-2**
JMA	IX	18 17 09 41.6±.4	37.22N±.02	141.75E±.04	44	2.9		**¶97ix2689**
ISC	**IX**	**18 17 38 40**±1.2	**36.43N**±.058	**141.17E**±.099	**22**±10		**32**	**1-4**
JMA	IX	18 17 38 40.3±.3	36.43N±.01	141.15E±.03	44±4	3.4		**¶97ix2691**
ISC	**IX**	**19 01 40 02**±5.4	**37.4N**±.38	**141.4E**±.67	**78**		**6**	**0-2**
JMA	IX	19 01 40 02.0±.2	37.41N±.01	141.36E±.02	78±2			**¶97ix2733**
ISC	**IX**	**19 05 01 06**±3.8	**35.8N**±.12	**141.0E**±.59	**24**±17		**5**	**0-2**
JMA	IX	19 05 01 05.8±.3	35.84N±.01	140.95E±.03	29±2	2.9		**¶97ix2749**
ISC	Poorly determined							
ISC	**IX**	**19 17 23 51**±2.1	**40.32N**±.077	**142.2E**±.27	**33**		**12**	**0-2**
JMA	IX	19 17 23 50.1±.3	40.34N±.01	142.23E±.03	33±3	2.8		**¶97ix2820**
ISC	**IX**	**19 19 58 38.7**±.62	**35.58N**±.053	**140.02E**±.067	**18**±8.3		**21**	**0-2**
JMA	IX	19 19 58 38.6±.1	35.59N±.00	140.03E±.01	26±1	2.8		**¶97ix2837**
ISC	**IX**	**19 23 26 36**±4.0	**39.2N**±.14	**142.4E**±.50	**79**		**9**	**1-1**
JMA	IX	19 23 26 36.7±.2	39.20N±.01	142.32E±.02	79±3			**¶97ix2868**
ISC	**IX**	**20 09 09 42.1**±.77	**36.03N**±.064	**140.27E**±.080	**44**		**19**	**1-2**
JMA	IX	20 09 09 41.8±.1	36.04N±.01	140.23E±.01	44±2	3.1		**¶97ix2920**
ISC	**IX**	**20 11 42 00**±1.0	**35.76N**±.051	**141.04E**±.082	**91**±14		**47**	**0-4**
JMA	IX	20 11 42 00.9±.1	35.80N±.01	141.05E±.02	69			**¶97ix2938**
ISC	**IX**	**20 15 24 51.3**±.91	**36.1N**±.11	**140.1E**±.10	**62**		**8**	**1-2**
JMA	IX	20 15 24 51.2±.2	36.11N±.01	140.07E±.01	62±2			**¶97ix2952**
ISC	**IX**	**20 17 51 57**±3.0	**36.6N**±.15	**141.4E**±.28	**38**		**16**	**1-3**
JMA	IX	20 17 51 56.8±.4	36.62N±.01	141.39E±.03	38	2.8		**¶97ix2979**
ISC	**IX**	**20 18 11 02**±8.9	**36.6N**±.17	**141.5E**±.25	**6**±54		**24**	**1-3**
JMA	IX	20 18 11 03.9±.4	36.63N±.02	141.43E±.03	29	3.0		**¶97ix2982**
ISC	**IX**	**20 19 35 01.4**±.92	**36.98N**±.056	**141.2E**±.11	**39**±26		**31**	**0-3**
JMA	IX	20 19 35 01.2±.2	36.98N±.01	141.18E±.02	46±3	3.3		**¶97ix2992**
ISC	**IX**	**20 23 37 30**±1.8	**37.0N**±.10	**141.2E**±.21	**50**±23		**16**	**0-3**
JMA	IX	20 23 37 30.1±.2	37.04N±.01	141.19E±.02	50±2	3.0		**¶97ix3016**
JMA	**IX**	**21 08 25 06.1**±.7	**35.91N**±.04	**141.65E**±.06	**63**			**¶97ix3067**
ISC	**IX**	**21 12 49 47**±2.5	**38.43N**±.097	**142.2E**±.27	**54**±50		**15**	**1-2**
JMA	IX	21 12 49 47.5±.1	38.44N±.01	142.16E±.02	55±2	2.8		**¶97ix3102**
ISC	**IX**	**21 19 27 35**±5.1	**35.6N**±.17	**140.1E**±.26	**85**±55		**5**	**0-1**
JMA	IX	21 19 27 36.3±.2	35.61N±.01	140.15E±.02	66±3			**¶97ix3147**
ISC	Poorly determined							
JMA	**IX**	**21 23 39 27.8**±.4	**38.18N**±.02	**141.77E**±.05	**76**			**¶97ix3186**
ISC	**IX**	**22 04 34 16**±2.8	**34.5N**±.16	**140.4E**±.17	**55**±37		**14**	**0-2**
JMA	IX	22 04 34 15.0±.3	34.56N±.02	140.38E±.02	71±4			**¶97ix3212**
ISC	**IX**	**22 04 34 25**±2.2	**34.6N**±.15	**140.4E**±.17	**59**±24		**26**	**0-5**
JMA	IX	22 04 34 24.2±.3	34.59N±.01	140.34E±.02	69±3			**¶97ix3213**
ISC	**IX**	**22 04 35 11**±2.2	**34.6N**±.10	**140.4E**±.14	**56**±28		**28**	**0-5**
JMA	IX	22 04 35 10.7±.3	34.61N±.02	140.33E±.02	65±3			**¶97ix3214**
ISC	**IX**	**22 04 38 27**±2.5	**34.6N**±.12	**140.4E**±.16	**63**±27		**18**	**0-2**
JMA	IX	22 04 38 26.9±.3	34.57N±.02	140.33E±.02	64±4			**¶97ix3215**
ISC	**IX**	**22 04 43 36**±3.2	**34.4N**±.37	**140.3E**±.16	**61**		**8**	**0-1**
JMA	IX	22 04 43 37.4±.3	34.54N±.02	140.32E±.02	61±4	2.1		**¶97ix3216**
ISC	**IX**	**22 04 46 09**±2.2	**34.6N**±.12	**140.3E**±.15	**48**±38		**15**	**0-2**
JMA	IX	22 04 46 08.7±.3	34.56N±.02	140.32E±.02	61±4			**¶97ix3217**
JMA	**IX**	**22 09 21 51.7**±.4	**36.14N**±.03	**140.29E**±.03	**93**±3			**¶97ix3255**
ISC	**IX**	**22 10 32 11**±2.5	**37.3N**±.13	**142.0E**±.24	**41**		**17**	**1-3**
JMA	IX	22 10 32 11.1±.3	37.34N±.01	141.90E±.03	41	2.8		**¶97ix3265**
ISC	**IX**	**22 13 02 58**±1.4	**35.63N**±.063	**140.17E**±.090	**73**±21		**25**	**0-2**
JMA	IX	22 13 02 57.9±.2	35.65N±.01	140.12E±.02	70±3			**¶97ix3282**
ISC	**IX**	**23 00 40 40**±1.3	**38.86N**±.048	**142.0E**±.17	**40**±29		**22**	**0-4**
JMA	IX	23 00 40 38.9±.2	38.83N±.01	142.03E±.02	49±2	3.4		**¶97ix3345**
ISC	**IX**	**23 02 30 48.4**±.36	**39.99N**±.024	**142.36E**±.064	**48**±6.0	**3.9b**,2.9s	**99**	**0-88**
JMA	IX	23 02 30 48.6±.1	40.04N±.01	142.24E±.02	48±2	4.2		**¶97ix3360**
EIDC	IX	23 02 30 51.2	40.0N	142.1E	56	3.6b,3.1s		
NEIC	IX	23 02 30 52.3	39.92N	141.99E	86	4.0b		
JMA	Felt I= II J1							
NEIC	Less reliable solution.							
ISC	**IX**	**23 08 35 02**±1.5	**38.54N**±.064	**141.3E**±.16	**80**±20		**16**	**0-1**
JMA	IX	23 08 35 01.7±.1	38.55N±.00	141.26E±.01	78±2			**¶97ix3402**
ISC	**IX**	**23 12 27 57**±2.0	**35.82N**±.072	**140.1E**±.12	**84**±32		**13**	**1-2**
JMA	IX	23 12 27 56.8±.3	35.83N±.01	140.07E±.02	81±3			**¶97ix3419**
ISC	**IX**	**23 21 59 00**±1.2	**39.95N**±.059	**142.5E**±.15	**34**		**17**	**0-3**
JMA	IX	23 21 58 59.6±.4	39.92N±.01	142.45E±.03	34±3	3.0		**¶97ix3484**
JMA	**IX**	**24 13 59 39.0**±.3	**36.29N**±.01	**140.04E**±.02	**69**±3			**¶97ix3587**
JMA	**IX**	**24 16 02 59.0**±.5	**36.32N**±.02	**140.58E**±.03	**61**±4			**¶97ix3600**
JMA	**IX**	**25 08 16 41.5**±.4	**36.10N**±.03	**140.11E**±.02	**60**±3	**1.6**		**¶97ix3706**
ISC	**IX**	**25 08 51 57**±1.7	**38.41N**±.028	**142.47E**±.065	**31**±17	**3.9b**	**79**	**1-76**
EIDC	IX	25 08 51 55.5	38.7N	142.3E	0	3.9b,3.5L		**¶97ix3711**
JMA	IX	25 08 51 56.9±.2	38.39N±.01	142.30E±.02	38±4	3.9		
NEIC	IX	25 08 51 58.3	38.66N	142.32E	33			
NEIC	Less reliable solution.							
ISC	**IX**	**25 13 02 49**±1.1	**36.44N**±.045	**141.07E**±.090	**27**±9.9		**38**	**0-4**
JMA	IX	25 13 02 49.1±.2	36.44N±.01	141.03E±.02	42±3	3.5		**¶97ix3743**
ISC	**IX**	**25 16 12 33**±1.0	**35.57N**±.053	**141.8E**±.11	**48**	**3.6b**	**38**	**1-59**
JMA	IX	25 16 12 31.2±.3	35.58N±.01	141.92E±.03	48	3.3		**¶97ix3758**
EIDC	IX	25 16 12 33.6	35.5N	141.4E	0	3.6b,3.0L		
NEIC	IX	25 16 12 36.1	35.49N	141.44E	33			
NEIC	Poor solution.							
JMA	**IX**	**25 19 37 26.6**±.4	**36.13N**±.02	**140.10E**±.02	**64**±3			**¶97ix3784**
ISC	**IX**	**25 20 39 21.8**±.48	**38.30N**±.033	**141.85E**±.076	**64**±6.3	**4.0b**	**70**	**0-73**
JMA	IX	25 20 39 22.6±.1	38.30N±.00	141.69E±.01	57±2	3.9		**¶97ix3791**
NEIC	IX	25 20 39 22.8	38.32N	141.78E	73			
EIDC	IX	25 20 39 24.5	38.2N	141.8E	68	3.7b		
JMA	Felt I=II J1							
NEIC	Less reliable solution.							
NEIC	Felt I=II J1 in northeastern Miyagi Prefecture.							
ISC	**IX**	**25 23 26 53**±4.4	**39.7N**±.11	**142.3E**±.47	**31**±17		**9**	**0-1**
JMA	IX	25 23 26 53.4±.3	39.71N±.01	142.27E±.03	40±3	3.0		**¶97ix3804**
JMA	**IX**	**26 13 59 07.6**±.2	**36.10N**±.01	**140.05E**±.01	**68**±2			**¶97ix4028**
ISC	**IX**	**26 14 43 45.3**±.50	**38.45N**±.027	**142.34E**±.065	**41**±6.1	**4.1b**	**99**	**1-89**
NEIC	IX	26 14 43 44.5	38.49N	142.24E	33	4.2b		**¶97ix4044**
JMA	IX	26 14 43 45.5±.2	38.42N±.01	142.20E±.02	43±3	4.0		
EIDC	IX	26 14 43 48.3	38.4N	142.1E	50	3.8b,3.9L		
NEIC	Less reliable solution.							
ISC	**IX**	**27 01 26 14**±1.7	**34.71N**±.089	**140.2E**±.11	**52**±28		**22**	**0-2**
JMA	IX	27 01 26 13.9±.2	34.74N±.01	140.14E±.01	61±3	2.9		**¶97ix4211**
ISC	**IX**	**27 05 22 17.9**±.53	**36.25N**±.036	**141.00E**±.067	**54**±6.6	**3.7b**	**65**	**1-75**
EIDC	IX	27 05 22 12.3	36.3N	141.0E	0	3.8b,3.8L		**¶97ix4256**
JMA	IX	27 05 22 17.8±.1	36.26N±.01	140.91E±.02	44±3	3.8		
NEIC	IX	27 05 22 19.8	36.24N	140.80E	75			
NEIC	Less reliable solution.							
NEIC	Felt I=II J1 in Ibaraki Prefecture.							
ISC	**IX**	**27 05 59 50**±4.6	**35.1N**±.25	**140.2E**±.27	**81**±45		**11**	**0-2**
JMA	IX	27 05 59 50.9±.3	35.17N±.02	140.12E±.02	73±3			**¶97ix4266**
ISC	**IX**	**27 09 25 24**±4.5	**39.2N**±.11	**142.4E**±.51	**46**		**8**	**1-2**
JMA	IX	27 09 25 23.8±.2	39.16N±.01	142.48E±.02	46±3	2.8		**¶97ix4315**
JMA	**IX**	**27 09 41 18.5**±.3	**36.13N**±.02	**140.09E**±.02	**62**±3			**¶97ix4317**
ISC	**IX**	**27 09 55 54**±2.0	**36.0N**±.20	**140.2E**±.25	**69**		**6**	**1-1**
JMA	IX	27 09 55 54.2±.1	36.03N±.01	140.19E±.01	69±1			**¶97ix4318**
ISC	**IX**	**27 12 07 02**±3.2	**37.0N**±.15	**141.8E**±.28	**24**		**11**	**1-3**
JMA	IX	27 12 07 00.1±.4	36.96N±.01	141.96E±.04	24	2.9		**¶97ix4349**
ISC	**IX**	**27 13 54 58**±1.5	**36.30N**±.084	**141.1E**±.15	**31**±13		**15**	**1-2**
JMA	IX	27 13 54 57.5±.3	36.31N±.01	141.09E±.03	43±4	3.1		**¶97ix4369**
ISC	**IX**	**27 17 53 44**±2.9	**37.3N**±.14	**141.0E**±.30	**100**±26		**12**	**0-2**
JMA	IX	27 17 53 44.9±.3	37.31N±.01	141.01E±.03	93±3			**¶97ix4425**
ISC	**IX**	**27 20 01 59**±3.9	**39.92N**±.085	**142.4E**±.37	**30**±16		**11**	**0-2**
JMA	IX	27 20 01 58.6±.2	39.92N±.01	142.43E±.02	37±3	2.9		**¶97ix4444**
ISC	**IX**	**27 23 24 30.9**±.69	**39.29N**±.044	**142.49E**±.082	**14**		**29**	**1-5**
JMA	IX	27 23 24 31.5±.3	39.29N±.01	142.41E±.03	14±3	3.5		**¶97ix4479**
ISC	**IX**	**28 07 28 37**±4.7	**36.6N**±.24	**141.6E**±.41	**30**		**13**	**1-2**
JMA	IX	28 07 28 35.9±.3	36.53N±.01	141.66E±.02	30	2.9		**¶97ix4576**
ISC	**IX**	**28 08 00 23**±1.5	**34.52N**±.066	**140.4E**±.11	**62**±18		**27**	**0-3**
JMA	IX	28 08 00 23.8±.2	34.54N±.01	140.34E±.02	60±4	3.0		**¶97ix4584**
ISC	**IX**	**28 11 39 26**±4.6	**36.9N**±.14	**140.1E**±.13	**97**±48		**11**	**0-1**
JMA	IX	28 11 39 25.9±.3	36.87N±.01	140.06E±.01	94±3			**¶97ix4631**
ISC	**IX**	**28 17 13 47**±1.1	**34.7N**±.19	**140.12E**±.090	**62**		**12**	**0-2**
JMA	IX	28 17 13 46.7±.4	34.79N±.03	140.09E±.02	62±5			**¶97ix4712**
ISC	**IX**	**28 18 54 17.3**±.57	**36.09N**±.039	**140.93E**±.075	**51**±7.6	**3.5b**	**40**	**0-75**
EIDC	IX	28 18 54 12.0	36.0N	140.9E	0	3.5b,3.3L		**¶97ix4735**
NEIC	IX	28 18 54 14.8	36.01N	141.02E	33			
JMA	IX	28 18 54 16.9±.2	36.13N±.01	140.90E±.03	39±3	3.6		
NEIC	Less reliable solution.							
ISC	**IX**	**28 22 27 02**±1.1	**36.38N**±.072	**141.0E**±.14	**45**		**17**	**0-3**
JMA	IX	28 22 27 01.4±.3	36.42N±.01	141.01E±.03	45±4	2.8		**¶97ix4771**
ISC	**IX**	**29 06 32 09**±1.7	**36.68N**±.063	**141.4E**±.15	**19**±14		**25**	**1-3**
JMA	IX	29 06 32 08.9±.3	36.66N±.01	141.42E±.03	41	3.4		**¶97ix4887**
JMA	**IX**	**29 08 37 17.8**±.3	**36.12N**±.02	**140.08E**±.02	**64**±2			**¶97ix4913**
ISC	**IX**	**29 12 15 41.0**±.59	**38.60N**±.050	**141.3E**±.12	**75**		**21**	**0-3**
JMA	IX	29 12 15 40.7±.1	38.57N±.00	141.28E±.01	75±2			**¶97ix4946**
ISC	**IX**	**29 13 00 35.6**±.73	**35.64N**±.041	**140.19E**±.057	**68**±14		**39**	**0-4**
JMA	IX	29 13 00 35.3±.2	35.68N±.01	140.18E±.01	69±2			**¶97ix4951**
JMA	**IX**	**29 13 48 09.8**±.4	**36.66N**±.02	**141.11E**±.04	**80**±4			**¶97ix4959**
ISC	**IX**	**29 14 01 20**±5.3	**38.7N**±.13	**141.1E**±.21	**85**±56		**8**	**0-1**
JMA	IX	29 14 01 19.7±.1	38.66N±.00	141.13E±.01	84±1			**¶97ix4961**
ISC	**IX**	**29 14 46 20.8**±.33	**35.68N**±.022	**140.87E**±.038	**57**±3.3	**4.4b,4.0s**	**178**	**0-148**
JMA	IX	29 14 46 21.6±.2	35.71N±.01	140.70E±.02	54±3	4.1		**¶97ix4967**
EIDC	IX	29 14 46 23.1	35.6N	140.6E	55	3.9b,4.0s		
BJI	IX	29 14 46 23.4	35.42N	140.28E	64	4.7b		
NEIC	IX	29 14 46 23.8	35.66N	140.48E	78	4.6b		
JMA	Felt I=III J1							
ISC	**IX**	**29 17 53 09**±1.2	**36.43N**±.062	**141.2E**±.10	**23**±10		**27**	**1-4**
JMA	IX	29 17 53 09.3±.3	36.43N±.01	141.15E±.03	44±4	3.2		**¶97ix5000**
ISC	**IX**	**30 00 52 49**±3.2	**36.5N**±.19	**140.6E**±.27	**72**±30		**9**	**0-1**
JMA	IX	30 00 52 49.8±.3	36.48N±.02	140.54E±.03	67±3			**¶97ix5081**
ISC	**IX**	**30 01 26 58**±3.3	**37.2N**±.18	**141.9E**±.32	**60**		**13**	**1-2**
JMA	IX	30 01 26 57.6±.3	37.15N±.01	141.93E±.03	60	2.9		**¶97ix5089**
ISC	**IX**	**30 08 48 33**±1.1	**36.15N**±.057	**140.03E**±.079	**63**±21		**21**	**1-2**
JMA	IX	30 08 48 32.7±.1	36.13N±.01	140.03E±.01	66±2			**¶97ix5180**
ISC	**IX**	**30 10 29 00**±2.4	**34.18N**±.090	**140.3E**±.12	**59**±44		**15**	**1-2**
JMA	IX	30 10 29 00.7±.2	34.19N±.01	140.20E±.01	51	2.8		**¶97ix5203**
ISC	**IX**	**30 11 11 03**±1.7	**40.09N**±.085	**142.9E**±.19	**14**		**12**	**1-3**
JMA	IX	30 11 11 02.4±.4	40.11N±.01	142.86E±.03	14±4	3.0		**¶97ix5213**
ISC	**IX**	**30 13 36 05.3**±.51	**40.67N**±.036	**142.82E**±.082	**39**		**34**	**1-4**
JMA	IX	30 13 36 05.6±.1	40.70N±.01	142.64E±.02	39	3.1		**¶97ix5240**
ISC	**IX**	**30 14 12 26.1**±.92	**40.01N**±.043	**141.7E**±.12	**66**±13		**24**	**0-3**
JMA	IX	30 14 12 25.6±.1	40.02N±.01	141.71E±.02	69±2			**¶97ix5245**

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**IX**	**30 16 42 42**±4.5	**38.9N**±.13	**141.5E**±.47	**106**±42		**10**	**0-2**
JMA	IX	30 16 42 42.5±.1	38.89N±.01	141.55E±.02	99±1			¶97ix5277
ISC	**IX**	**30 18 52 18**±1.8	**34.9N**±.55	**140.4E**±.63	**67**		**4**	**0-1**
JMA	IX	30 18 52 18.4±.3	34.86N±.03	140.38E±.01	67±3	2.1		¶97ix5294
ISC		Poorly determined						
JMA	**X**	**01 01 04 18.7**±.0	**36.32N**±.00	**140.51E**±.01	**86**±1	**1.5**		¶97x0004
ISC	**X**	**01 02 58 06**±2.7	**37.1N**±.13	**141.7E**±.27	**41**		**11**	**1-3**
JMA	X	01 02 58 05.0±.2	37.08N±.01	141.67E±.02	41	3.6		¶97x0014
ISC	**X**	**01 05 31 50.0**±.99	**37.06N**±.079	**141.8E**±.11	**44**	**3.6b**	**20**	**1-61**
JMA	X	01 05 31 36.5±.4	36.66N±.02	142.83E±.04	44	3.4		¶97x0035
NEIC	X	01 05 31 46.2	37.08N	142.00E	10			
EIDC	X	01 05 31 46.9	37.1N	142.2E	0	3.6b		
NEIC		Less reliable solution.						
ISC	**X**	**01 09 00 54**±3.5	**35.6N**±.14	**140.1E**±.20	**85**±39		**8**	**0-2**
JMA	X	01 09 00 54.9±.1	35.63N±.01	140.06E±.01	68±2	2.4		¶97x0060
ISC	**X**	**01 11 52 27**±2.8	**36.14N**±.071	**141.2E**±.32	**21**±17		**7**	**1-2**
JMA	X	01 11 52 27.4±.3	36.12N±.01	141.16E±.03	29±4	3.3		¶97x0079
JMA	**X**	**01 12 39 15.4**±.1	**36.01N**±.01	**140.79E**±.01	**76**±2	**2.1**		¶97x0085
JMA	**X**	**01 13 29 43.4**±.1	**36.19N**±.01	**140.09E**±.01	**65**±1	**1.3**		¶97x0094
JMA	**X**	**01 14 55 23.2**±.3	**40.40N**±.01	**141.64E**±.03	**78**±3	**1.4**		¶97x0105
ISC	**X**	**01 17 42 58**±2.8	**38.84N**±.097	**141.5E**±.36	**92**±30		**11**	**0-2**
JMA	X	01 17 42 58.6±.1	38.82N±.01	141.54E±.02	83±2	2.1		¶97x0129
ISC	**X**	**01 19 59 59**±4.0	**38.9N**±.14	**141.6E**±.40	**67**±39		**9**	**0-1**
JMA	X	01 19 59 58.8±.1	38.94N±.00	141.63E±.01	67±1	1.8		¶97x0147
ISC	**X**	**01 21 28 02**±8.8	**35.6N**±.30	**140.1E**±.87	**64**		**6**	**1-1**
JMA	X	01 21 28 03.0±.1	35.65N±.01	140.08E±.01	64±1	2.0		¶97x0156
ISC		Poorly determined						
ISC	**X**	**01 23 03 11**±4.6	**38.5N**±.18	**141.7E**±.51	**65**±35		**8**	**0-1**
JMA	X	01 23 03 10.9±.2	38.54N±.01	141.67E±.03	64±3	2.0		¶97x0171
ISC	**X**	**02 00 34 59**±3.4	**40.12N**±.095	**141.7E**±.28	**128**±31		**13**	**0-2**
JMA	X	02 00 35 00.0±.2	40.11N±.01	141.61E±.02	114±2			¶97x0179
ISC	**X**	**02 06 01 10**±6.1	**35.6N**±.15	**140.4E**±.63	**62**		**6**	**1-2**
JMA	X	02 06 01 13.3±.1	35.76N±.00	140.10E±.01	62±1	2.2		¶97x0220
ISC	**X**	**02 16 45 03**±4.9	**38.6N**±.17	**141.2E**±.36	**80**±51		**10**	**0-1**
JMA	X	02 16 45 02.9±.1	38.61N±.00	141.18E±.01	76±1	1.8		¶97x0314
JMA	**X**	**03 04 24 23.8**±.2	**34.37N**±.03	**140.17E**±.01	**79**±2	**2.2**		¶97x0385
ISC	**X**	**03 12 13 05**±1.7	**36.3N**±.33	**140.1E**±.25	**71**		**5**	**1-1**
JMA	X	03 12 13 04.9±.1	36.31N±.01	140.05E±.01	71±1	1.8		¶97x0459
ISC		Poorly determined						
ISC	**X**	**03 12 18 32**±4.3	**37.2N**±.14	**141.3E**±.37	**91**±33		**12**	**0-2**
JMA	X	03 12 18 32.1±.1	37.17N±.01	141.22E±.02	83±2	2.8		¶97x0461
JMA	**X**	**04 03 19 13.2**±.2	**34.74N**±.02	**140.11E**±.01	**61**±2	**2.1**		¶97x0568
ISC	**X**	**04 09 21 07**±8.6	**35.8N**±.33	**141.8E**±.72	**45**		**7**	**1-3**
JMA	X	04 09 21 08.3±.3	35.88N±.01	141.66E±.03	45±4	3.2		¶97x0619
ISC	**X**	**04 10 51 10**±1.4	**36.9N**±.22	**140.7E**±.60	**96**		**4**	**0-1**
JMA	X	04 10 51 10.2±.2	36.93N±.01	140.71E±.02	96±2			¶97x0630
ISC		Poorly determined						
ISC	**X**	**04 13 46 07**±3.4	**40.0N**±.12	**141.3E**±.32	**95**±35		**9**	**0-2**
JMA	X	04 13 46 07.8±.1	40.03N±.00	141.28E±.01	90±1	2.3		¶97x0656
JMA	**X**	**04 14 55 04.7**±.2	**40.52N**±.02	**141.75E**±.04	**96**±3			¶97x0665
JMA	**X**	**04 21 29 01.4**±.2	**38.15N**±.01	**141.22E**±.01	**63**±2	**1.6**		¶97x0736
ISC	**X**	**05 04 20 01**±5.8	**34.9N**±.45	**140.1E**±.38	**81**±55		**7**	**0-1**
JMA	X	05 04 20 01.9±.3	34.94N±.02	140.10E±.02	66±3	2.3		¶97x0794
JMA	**X**	**05 06 30 37.5**±.4	**37.34N**±.02	**141.35E**±.05	**77**	**2.0**		¶97x0816
ISC	**X**	**05 07 56 05**±8.0	**35.6N**±.27	**140.4E**±.77	**65**		**7**	**0-2**
JMA	X	05 07 56 07.7±.2	35.67N±.01	140.11E±.01	65±2	1.9		¶97x0828
ISC	**X**	**05 08 26 15**±1.8	**40.57N**±.069	**141.4E**±.22	**79**±25		**13**	**0-2**
JMA	X	05 08 26 15.0±.1	40.57N±.00	141.39E±.02	83±2	2.6		¶97x0832
ISC	**X**	**05 11 05 30**±4.0	**38.9N**±.11	**142.7E**±.38	**25**		**12**	**1-2**
JMA	X	05 11 05 30.8±.3	38.86N±.01	142.54E±.02	25±3	3.3		¶97x0856
ISC	**X**	**05 15 12 20**±2.9	**40.5N**±.10	**141.2E**±.20	**88**±32		**11**	**0-2**
JMA	X	05 15 12 19.7±.1	40.51N±.00	141.22E±.01	90±1	2.0		¶97x0879
ISC	**X**	**05 17 14 04**±1.1	**38.8N**±.14	**141.4E**±.53	**102**		**6**	**0-1**
JMA	X	05 17 14 03.8±.2	38.83N±.01	141.49E±.03	102±2			¶97x0893
JMA	**X**	**05 18 09 22.5**±.3	**34.92N**±.02	**140.11E**±.01	**62**±2	**1.9**		¶97x0903
ISC	**X**	**05 18 48 23**±2.3	**34.37N**±.090	**140.3E**±.14	**77**±29		**12**	**0-3**
JMA	X	05 18 48 23.4±.2	34.37N±.01	140.25E±.02	77±3	2.7		¶97x0911
ISC	**X**	**05 21 45 09**±2.1	**38.72N**±.076	**142.0E**±.21	**58**±28		**14**	**0-2**
JMA	X	05 21 45 08.4±.1	38.72N±.00	141.97E±.01	58±1	3.2		¶97x0940
ISC	**X**	**05 23 42 06**±1.8	**36.47N**±.085	**141.2E**±.21	**46**		**10**	**1-2**
JMA	X	05 23 42 06.5±.2	36.46N±.01	141.13E±.02	46±3	2.9		¶97x0953
ISC	**X**	**06 03 19 35**±1.7	**38.4N**±.28	**141.1E**±.40	**75**		**7**	**0-1**
JMA	X	06 03 19 34.9±.1	38.42N±.00	141.17E±.01	75±1	2.0		¶97x0975
ISC		Poorly determined						
ISC	**X**	**06 03 22 22**±7.7	**36.6N**±.36	**140.3E**±.24	**134**±63		**10**	**0-2**
JMA	X	06 03 22 24.5±.2	36.69N±.01	140.33E±.02	112±2			¶97x0976
ISC	**X**	**06 03 55 19**±3.6	**40.15N**±.095	**141.8E**±.30	**118**±34		**13**	**0-2**
JMA	X	06 03 55 19.8±.2	40.14N±.01	141.80E±.02	105±2			¶97x0980
ISC	**X**	**06 04 18 59**±1.2	**36.8N**±.23	**140.1E**±.19	**86**		**4**	**0-1**
JMA	X	06 04 18 59.5±.1	36.77N±.01	140.12E±.01	86±2	2.5		¶97x0985
ISC		Poorly determined						
ISC	**X**	**06 08 48 54**±2.0	**34.80N**±.094	**140.1E**±.10	**69**±24		**15**	**0-2**
JMA	X	06 08 48 54.5±.2	34.81N±.01	140.11E±.01	65±3	3.5		¶97x1020
ISC	**X**	**06 11 29 51**±3.4	**34.6N**±.24	**140.2E**±.14	**89**±33		**11**	**0-2**
JMA	X	06 11 29 52.4±.2	34.70N±.02	140.11E±.01	79±3	2.3		¶97x1035
JMA	**X**	**06 15 16 30.1**±.2	**36.11N**±.01	**140.09E**±.01	**66**±2	**2.1**		¶97x1067
ISC	**X**	**06 16 29 20**±1.4	**40.74N**±.047	**142.1E**±.11	**26**±14		**16**	**1-2**
JMA	X	06 16 29 20.1±.1	40.73N±.01	142.09E±.01	48±3	3.2		¶97x1080
ISC	**X**	**06 16 49 42**±2.2	**35.5N**±.10	**140.2E**±.15	**82**±27		**11**	**0-2**
JMA	X	06 16 49 42.4±.2	35.55N±.01	140.17E±.02	74±3	3.2		¶97x1084
ISC	**X**	**06 18 30 22**±2.5	**40.40N**±.076	**141.6E**±.17	**116**±32		**15**	**0-2**
JMA	X	06 18 30 22.6±.1	40.41N±.00	141.63E±.02	110±2			¶97x1096
ISC	**X**	**06 20 40 14**±3.3	**36.9N**±.11	**140.7E**±.21	**120**±34		**12**	**0-2**
JMA	X	06 20 40 16.2±.1	36.87N±.01	140.78E±.01	100±2			¶97x1115
ISC	**X**	**06 22 33 47**±3.2	**35.99N**±.088	**140.0E**±.31	**83**±28		**12**	**0-2**
JMA	X	06 22 33 48.0±.2	35.96N±.01	139.96E±.02	71±3	3.2		¶97x1128
ISC	**X**	**07 08 12 06**±3.2	**36.1N**±.37	**140.1E**±.25	**65**		**4**	**1-1**
JMA	X	07 08 12 06.3±.1	36.17N±.01	140.08E±.01	65±1	1.7		¶97x1210
ISC		Poorly determined						
ISC	**X**	**07 10 34 34**±7.2	**36.8N**±.26	**140.8E**±.56	**102**±52		**8**	**0-2**
JMA	X	07 10 34 35.1±.2	36.76N±.01	140.83E±.02	91±2	2.6		¶97x1228
ISC	**X**	**07 19 30 19**±3.0	**37.8N**±.14	**141.6E**±.42	**72**		**6**	**1-1**
JMA	X	07 19 30 19.0±.2	37.81N±.01	141.52E±.02	72±3	2.1		¶97x1287
ISC	**X**	**08 06 02 19**±3.3	**40.69N**±.098	**142.5E**±.40	**49**		**11**	**1-2**
JMA	X	08 06 02 18.7±.2	40.68N±.01	142.43E±.02	49±3	3.5		¶97x1355
ISC	**X**	**08 10 40 05**±4.5	**34N**±1.4	**140.9E**±.67	**59**		**6**	**0-1**
JMA	X	08 10 40 04.6±.3	34.60N±.01	140.85E±.02	59±2	3.1		¶97x1394
ISC		Poorly determined						
ISC	**X**	**09 00 28 48**±2.1	**36.2N**±.11	**140.0E**±.13	**74**±32		**11**	**1-2**
JMA	X	09 00 28 48.3±.1	36.15N±.00	140.02E±.01	68±1	2.8		¶97x1497
ISC	**X**	**09 08 19 16.8**±.46	**34.73N**±.062	**140.08E**±.069	**63**±4.9	**4.0b**	**29**	**0-160**
JMA	X	09 08 19 16.8±.1	34.82N±.01	140.11E±.01	64±2	3.8		¶97x1556
NEIC	X	09 08 19 18.5	34.67N	139.82E	80			
EIDC	X	09 08 19 18.9	34.7N	140.0E	68	3.7b,3.8s		
JMA		Nodal plane solution: N94, Score 98%. NP1:ϕ_S296°,δ23°,λ−138°. NP2:ϕ_S166°,δ75°,λ−72°. Principle axes: T Plg28°,Azm242°; N Plg17°,Azm341°; P Plg57°,Azm98°.						
NEIC		Less reliable solution.						
ISC	**X**	**09 10 49 06**±2.8	**36.5N**±.26	**140.5E**±.66	**90**		**6**	**0-1**
JMA	X	09 10 49 06.2±.1	36.42N±.01	140.51E±.01	90±1	1.8		¶97x1574
ISC	**X**	**09 19 27 12**±3.0	**40.4N**±.10	**142.2E**±.31	**55**±32		**13**	**1-5**
JMA	X	09 19 27 12.5±.1	40.37N±.00	142.08E±.01	53±2	3.7		¶97x1630
ISC	**X**	**09 23 35 43**±4.1	**39.63N**±.092	**142.5E**±.42	**32**		**10**	**1-2**
JMA	X	09 23 35 41.5±.2	39.64N±.01	142.58E±.02	32±2	2.8		¶97x1658
ISC	**X**	**09 23 51 52**±8.1	**35.8N**±.35	**142.0E**±.72	**72**		**8**	**1-3**
JMA	X	09 23 51 49.9±.5	35.71N±.02	142.15E±.04	72	2.8		¶97x1661
ISC	**X**	**10 00 22 59**±2.6	**34.8N**±.21	**140.1E**±.12	**61**±32		**11**	**0-2**
JMA	X	10 00 22 59.1±.2	34.82N±.01	140.12E±.01	63±2	2.6		¶97x1667
ISC	**X**	**10 00 56 28.1**±.69	**40.68N**±.042	**142.55E**±.088	**48**±5.7	**4.3b,4.1s**	**62**	**1-86**
EIDC	X	10 00 56 22.8	40.6N	142.6E	0	4.1b,4.2L		¶97x1671
BJI	X	10 00 56 26.2	40.60N	142.50E	33	4.5b,4.6s		
NEIC	X	10 00 56 26.2	40.61N	142.48E	33	4.7b		
JMA	X	10 00 56 26.3±.3	40.67N±.01	142.62E±.02	13±4	4.5		
MOS	X	10 00 56 27.1	40.7N	142.6E	33	5.1b		
NEIC		Felt I=II J1 in southern Aomori and northern Iwate Prefectures.						
JMA		Felt I=II J1						
ISC	**X**	**10 04 04 53**±5.8	**39.9N**±.13	**142.6E**±.58	**34**		**9**	**1-2**
JMA	X	10 04 04 52.8±.3	39.95N±.01	142.50E±.03	34±3	3.1		¶97x1688
ISC	**X**	**10 08 12 32**±5.0	**36.8N**±.23	**141.1E**±.54	**39**		**8**	**0-2**
JMA	X	10 08 12 29.8±.3	36.66N±.01	141.34E±.02	39±4	2.9		¶97x1719
ISC	**X**	**10 21 26 53.1**±.72	**35.87N**±.078	**140.1E**±.12	**78**±8.8	**3.7b**	**17**	**0-56**
JMA	X	10 21 26 53.3±.1	35.91N±.00	140.13E±.01	65±1	3.2		¶97x1803
NEIC	X	10 21 26 55.3	35.78N	139.75E	100			
EIDC	X	10 21 26 56.8	35.8N	139.8E	92	3.4b		
NEIC		Less reliable solution.						
ISC	**X**	**10 22 51 56**±6.8	**40.7N**±.15	**142.6E**±.48	**1**±23		**9**	**1-2**
JMA	X	10 22 51 57.0±.3	40.66N±.01	142.62E±.02	21±3	2.9		¶97x1809
ISC	**X**	**11 01 25 01**±3.0	**36.4N**±.13	**140.5E**±.21	**99**±31		**11**	**0-2**
JMA	X	11 01 25 02.4±.1	36.39N±.01	140.40E±.01	89±1	2.5		¶97x1822
JMA	**X**	**11 02 45 54.7**±.1	**36.26N**±.01	**140.08E**±.01	**67**±2	**1.3**		¶97x1832
ISC	**X**	**11 09 45 31.6**±.45	**38.84N**±.028	**141.98E**±.042	**52**±3.6	**5.3b,4.7s**	**323**	**0-155**
BJI	X	11 09 45 29.4	38.80N	142.01E	43	5.5b,4.7s		¶97x1874
JMA	X	11 09 45 30.3±.1	38.87N±.00	142.18E±.02	54±2	5.1		
MOS	X	11 09 45 31.3	39.1N	141.9E	37	5.8b,4.7s		
EIDC	X	11 09 45 31.3	38.9N	142.0E	37	4.7b,5.1L		
NEIC	X	11 09 45 31.4	38.86N	142.05E	52	5.3b,4.6s		
HRVD	X	11 09 45 34.1±.5	38.70N±.06	142.07E±.07	34±3.9			
JMA		Felt I=III J1						
NEIC		Mw5.4(HRV). Felt I=V MM.						
NEIC		Felt I=III J1 in northeastern Miyagi and southeastern Iwate Prefectures. Felt II J1 in southeastern Aomori and north-central Miyagi Prefectures. Also felt II J1 in other parts of Iwate Prefecture.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c32; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.59±.41; $M_{\theta\theta}$0.20±.49; $M_{\phi\phi}$−5.78±.55; $M_{r\theta}$4.21±.93; $M_{r\phi}$8.57±1.08; $M_{\theta\phi}$−4.51±.56. Principal Axes: T 10.5,Plg63°,Azm293°; N 2.6, Plg2°,Azm27°; P −13.1,Plg27°,Azm118°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S212°, δ18°,λ95°. NP2:ϕ_S26°,δ72°,λ88°.						
JMA	**X**	**11 11 22 27.8**±.2	**38.11N**±.01	**141.26E**±.01	**69**±2	**1.6**		¶97x1887
ISC	**X**	**11 23 11 38**±4.6	**37.2N**±.13	**141.8E**±.41	**26**		**10**	**1-3**
JMA	X	11 23 11 36.5±.3	37.12N±.01	141.93E±.02	26±4	3.1		¶97x1953
ISC	**X**	**12 00 42 31**±2.1	**40.1N**±.17	**141.8E**±.45	**81**		**6**	**0-1**
JMA	X	12 00 42 30.7±.1	40.14N±.00	141.83E±.01	81±1	1.6		¶97x1964
JMA	**X**	**12 03 23 04.8**±.2	**36.63N**±.01	**141.41E**±.02	**39**±4	**2.8**		¶97x1979
JMA	**X**	**12 06 06 26.9**±.6	**34.81N**±.03	**140.11E**±.04	**64**±5	**2.0**		¶97x1998
JMA	**X**	**12 06 07 12.0**±.1	**36.76N**±.01	**140.28E**±.01	**106**±1			¶97x1999
JMA	**X**	**12 07 47 06.0**±.4	**34.75N**±.03	**140.08E**±.03	**60**±3	**2.4**		¶97x2008
JMA	**X**	**12 08 54 58.1**±.3	**34.76N**±.02	**140.11E**±.01	**60**±3	**2.1**		¶97x2017
ISC	**X**	**12 14 06 30**±5.6	**38.5N**±.25	**142.1E**±.77	**89**±50		**11**	**1-2**
JMA	X	12 14 06 31.1±.1	38.51N±.01	141.98E±.02	83±2	2.4		¶97x2054
ISC	**X**	**12 17 58 38**±5.0	**37.0N**±.21	**141.8E**±.43	**31**		**9**	**1-2**
JMA	X	12 17 58 38.9±.3	37.04N±.01	141.66E±.02	31±4	3.4		¶97x2081
ISC	**X**	**12 19 55 14**±1.6	**34.9N**±.51	**140.1E**±.39	**86**		**4**	**0-1**
JMA	X	12 19 55 14.4±.2	34.96N±.02	140.14E±.02	86±2	2.4		¶97x2093
ISC		Poorly determined						
JMA	**X**	**13 00 56 49.1**±.1	**37.09N**±.00	**141.08E**±.01	**83**±1	**1.8**		¶97x2138
JMA	**X**	**13 07 43 51.6**±.3	**38.55N**±.01	**142.02E**±.02	**75**±3	**2.0**		¶97x2178
ISC	**X**	**13 10 55 55**±2.7	**36.98N**±.096	**141.1E**±.47	**94**±36		**8**	**0-1**
JMA	X	13 10 55 55.3±.2	36.95N±.01	141.04E±.02	88±2	2.7		¶97x2203
ISC	**X**	**13 12 45 03**±3.0	**36.5N**±.16	**140.2E**±.20	**83**±35		**9**	**0-1**
JMA	X	13 12 45 02.9±.1	36.47N±.00	140.20E±.01	80±1	1.9		¶97x2220
ISC	**X**	**13 17 48 17**±2.0	**40.72N**±.060	**141.1E**±.18	**114**±25		**14**	**0-2**
JMA	X	13 17 48 17.4±.1	40.73N±.00	141.10E±.01	109±1			¶97x2262
ISC	**X**	**13 21 34 36**±1.8	**36.6N**±.19	**140.6E**±.22	**87**		**9**	**0-2**
JMA	X	13 21 34 36.2±.1	36.56N±.01	140.55E±.01	87±2	2.2		¶97x2291
ISC	**X**	**13 22 09 34**±1.4	**34.9N**±.68	**140.1E**±.26	**63**		**9**	**0-1**
JMA	X	13 22 09 34.4±.3	34.80N±.01	140.11E±.01	63±3	2.1		¶97x2293
ISC		Poorly determined						
ISC	**X**	**13 23 45 13**±2.6	**36.30N**±.097	**140.8E**±.22	**55**±39		**7**	**0-2**
JMA	X	13 23 45 13.6±.1	36.27N±.01	140.85E±.01	45±2	2.8		¶97x2307
ISC	**X**	**14 01 33 58**±5.3	**38.8N**±.14	**141.5E**±.38	**64**±51		**6**	**0-1**
JMA	X	14 01 33 58.2±.1	38.82N±.00	141.49E±.01	66±2	1.9		¶97x2317
ISC	**X**	**14 09 18 00**±1.2	**36.55N**±.081	**140.9E**±.16	**51**		**10**	**0-2**
JMA	X	14 09 17 59.5±.1	36.52N±.01	140.88E±.01	51±2	2.9		¶97x2366
ISC	**X**	**14 10 23 23**±1.5	**36.20N**±.066	**140.29E**±.099	**77**±29		**14**	**0-2**
JMA	X	14 10 23 23.1±.1	36.18N±.00	140.26E±.01	74±1	2.9		¶97x2376
ISC	**X**	**14 14 02 48**±4.5	**35.6N**±.14	**140.1E**±.20	**86**±53		**8**	**0-1**
JMA	X	14 14 02 49.9±.1	35.66N±.01	140.07E±.01	66±2	2.3		¶97x2418
ISC	**X**	**14 15 27 42**±1.3	**36.22N**±.067	**140.9E**±.15	**27**±13		**10**	**0-2**
JMA	X	14 15 27 41.9±.1	36.20N±.01	140.93E±.01	39±2	3.2		¶97x2427
ISC	**X**	**14 21 13 50**±6.5	**38.9N**±.14	**142.6E**±.54	**23**±24		**9**	**1-2**
JMA	X	14 21 13 50.4±.2	38.91N±.01	142.54E±.02	25±3	2.9		¶97x2495
ISC	**X**	**15 02 59 24**±2.3	**36.1N**±.13	**140.1E**±.16	**69**±31		**10**	**1-2**
JMA	X	15 02 59 24.0±.1	36.13N±.01	140.09E±.01	65±1	2.3		¶97x2546
JMA	**X**	**15 04 20 23.3**±.2	**38.54N**±.01	**141.38E**±.01	**70**±2	**1.9**		¶97x2561
JMA	**X**	**15 06 21 38.4**±.1	**36.13N**±.00	**140.07E**±.01	**60**±1	**1.6**		¶97x2576
ISC	**X**	**15 07 39 21**±1.8	**37.26N**±.077	**141.9E**±.19	**33**		**14**	**1-3**
JMA	X	15 07 39 19.8±.2	37.26N±.01	141.86E±.01	33±3	3.5		¶97x2587
ISC	**X**	**15 18 04 27**±3.5	**34.8N**±.28	**140.1E**±.16	**67**±45		**10**	**0-1**
JMA	X	15 18 04 27.3±.2	34.83N±.01	140.10E±.01	62±2	2.2		¶97x2690

ISC	X	**15 21 14 03**±2.0	**36.17N**±.079	**142.0E**±.21	**65**		**15**	**1-3**
JMA	X	15 21 14 02.9±.3	36.16N±.01	142.00E±.03	65	3.1		¶97x2722
ISC	X	**15 22 59 28**±1.9	**36.24N**±.088	**141.2E**±.21	**45**		**11**	**1-2**
JMA	X	15 22 59 28.7±.1	36.24N±.01	141.06E±.01	45±3	3.0		¶97x2741
JMA	X	**15 23 12 38.4**±.2	**36.68N**±.01	**141.30E**±.02	**65**±2	**2.3**		¶97x2742
JMA	X	**16 02 08 51.6**±.1	**36.02N**±.01	**140.11E**±.01	**61**±1	**1.7**		¶97x2768
ISC	X	**16 05 34 40**±3.4	**37.4N**±.15	**141.3E**±.42	**94**±42		**9**	**0-2**
JMA	X	16 05 34 40.1±.2	37.43N±.01	141.28E±.03	88±2	2.4		¶97x2793
ISC	X	**16 05 35 39**±2.5	**35.6N**±.14	**140.1E**±.20	**81**±36		**8**	**0-2**
JMA	X	16 05 35 39.0±.1	35.64N±.01	140.08E±.01	71±2	2.7		¶97x2794
JMA	X	**16 06 18 01.5**±.3	**34.72N**±.02	**140.10E**±.01	**60**±2	**2.2**		¶97x2801
JMA	X	**16 07 42 10.3**±.2	**37.50N**±.01	**141.34E**±.02	**75**±2	**2.2**		¶97x2808
ISC	X	**16 07 45 14**±3.0	**36.42N**±.090	**140.5E**±.17	**102**±34		**11**	**0-2**
JMA	X	16 07 45 15.0±.1	36.40N±.00	140.58E±.01	88±1	2.6		¶97x2810
ISC	X	**16 10 12 58**±2.1	**38.49N**±.077	**142.0E**±.24	**89**±22		**18**	**0-2**
JMA	X	16 10 12 58.4±.1	38.50N±.00	141.93E±.01	87±2	3.1		¶97x2819
JMA	X	**16 10 14 05.6**±.4	**35.27N**±.01	**140.18E**±.02	**65**±3	**2.2**		¶97x2820
ISC	X	**16 14 10 32**±3.8	**40.4N**±.11	**142.3E**±.38	**29**±18		**10**	**1-2**
JMA	X	16 14 10 32.2±.1	40.39N±.00	142.27E±.01	42±2	3.3		¶97x2849
ISC	X	**16 18 44 25**±4.2	**40.8N**±.13	**141.7E**±.57	**100**±54		**8**	**0-1**
JMA	X	16 18 44 25.2±.2	40.77N±.01	141.72E±.02	96±2			¶97x2868
JMA	X	**16 20 43 19.8**±.3	**34.36N**±.05	**140.23E**±.02	**70**	**1.7**		¶97x2876
ISC	X	**16 22 34 36**±2.6	**34.2N**±.26	**140.5E**±.19	**58**		**6**	**1-2**
JMA	X	16 22 34 36.4±.2	34.18N±.01	140.51E±.02	58±4	2.9		¶97x2888
ISC	X	**17 01 50 15**±6.3	**39.7N**±.12	**142.9E**±.62	**33**		**11**	**1-2**
JMA	X	17 01 50 15.1±.3	39.72N±.01	142.72E±.03	33±3	3.5		¶97x2917
ISC	X	**17 09 58 13**±4.4	**40.8N**±.29	**141.9E**±.63	**96**		**8**	**1-2**
JMA	X	17 09 58 12.5±.2	40.77N±.01	141.89E±.03	96±2			¶97x2959
ISC	X	**17 10 59 01**±2.2	**37.73N**±.082	**141.8E**±.20	**82**±24		**21**	**1-3**
JMA	X	17 10 59 01.4±.1	37.74N±.01	141.75E±.02	79±2	3.7		¶97x2966
JMA	X	**17 11 27 48.6**±.2	**35.64N**±.01	**140.02E**±.01	**65**±2	**1.5**		¶97x2977
ISC	X	**17 11 59 46**±2.6	**40.7N**±.11	**141.6E**±.49	**78**±39		**9**	**0-2**
JMA	X	17 11 59 46.2±.1	40.74N±.00	141.61E±.02	77±1	2.0		¶97x2980
ISC	X	**17 13 58 28**±4.6	**39.0N**±.13	**141.2E**±.49	**116**±46		**9**	**0-1**
JMA	X	17 13 58 28.4±.2	38.98N±.01	141.29E±.02	110±2			¶97x2998
JMA	X	**17 16 36 31.9**±.1	**36.13N**±.01	**140.10E**±.01	**65**±1	**1.7**		¶97x3019
ISC	X	**17 17 10 53**±4.9	**39.4N**±.10	**142.8E**±.41	**0**		**11**	**1-2**
JMA	X	17 17 10 52.8±.4	39.49N±.01	143.08E±.04	0	2.8		¶97x3027
JMA	X	**17 18 46 37.1**±.5	**40.63N**±.02	**141.92E**±.04	**62**±4	**1.7**		¶97x3042
ISC	X	**17 20 35 20**±2.1	**36.7N**±.22	**140.7E**±.36	**89**		**5**	**0-1**
JMA	X	17 20 35 19.4±.2	36.65N±.01	140.70E±.02	89±2	2.0		¶97x3057
ISC	X	**17 21 29 48**±2.0	**37.6N**±.16	**141.2E**±.37	**64**		**5**	**0-1**
JMA	X	17 21 29 47.8±.2	37.60N±.01	141.13E±.02	64±3	1.8		¶97x3062
ISC	X	**18 01 56 48**±3.0	**37.8N**±.13	**141.7E**±.29	**77**±35		**12**	**1-2**
JMA	X	18 01 56 48.3±.2	37.79N±.01	141.66E±.02	75±3	2.8		¶97x3086
ISC	X	**18 06 19 22**±1.0	**36.26N**±.084	**140.5E**±.11	**58**±11	**3.6b**	**15**	**0-56**
EIDC	X	18 06 19 18.9	36.6N	140.5E	0	3.8b,3.3L		¶97x3112
JMA	X	18 06 19 22.2±.1	36.26N±.00	140.47E±.01	51±2	3.2		
NEIC	X	18 06 19 30.9	36.48N	139.60E	100			
NEIC	Poor solution.							
ISC	X	**18 06 23 03**±1.0	**36.20N**±.091	**140.4E**±.32	**30**±36		**8**	**0-2**
JMA	X	18 06 23 02.8±.1	36.23N±.00	140.46E±.01	51±1	2.9		¶97x3114
ISC	X	**18 08 37 05**±2.2	**36.2N**±.34	**140.1E**±.27	**68**		**5**	**1-1**
JMA	X	18 08 37 05.3±.1	36.15N±.01	140.03E±.01	68±1	1.4		¶97x3123
ISC	Poorly determined							
ISC	X	**18 09 00 27**±3.2	**38.9N**±.11	**142.1E**±.39	**43**±54		**10**	**0-1**
JMA	X	18 09 00 26.9±.1	38.86N±.01	142.08E±.02	46±2	2.8		¶97x3126
ISC	X	**18 14 23 32**±4.0	**35.4N**±.14	**141.4E**±.37	**36**		**8**	**1-1**
JMA	X	18 14 23 33.3±.4	35.35N±.01	141.20E±.04	36±4	3.0		¶97x3177
ISC	X	**18 17 16 02**±1.8	**36.6N**±.21	**140.5E**±.28	**93**		**7**	**0-1**
JMA	X	18 17 16 01.5±.1	36.56N±.00	140.47E±.01	93±1			¶97x3199
ISC	X	**18 17 43 17**±2.9	**36.69N**±.090	**141.4E**±.27	**24**±16		**9**	**1-2**
JMA	X	18 17 43 17.7±.2	36.67N±.01	141.31E±.02	39±3	2.9		¶97x3203
ISC	X	**18 19 58 07**±2.4	**34.8N**±.17	**140.1E**±.12	**61**±30		**10**	**0-2**
JMA	X	18 19 58 07.5±.2	34.84N±.01	140.12E±.01	63±2	2.2		¶97x3223
JMA	X	**18 22 14 59.0**±.3	**34.73N**±.03	**140.10E**±.02	**61**±2	**1.7**		¶97x3245
ISC	X	**18 23 14 21**±2.4	**35.6N**±.10	**140.1E**±.14	**84**±31		**11**	**0-2**
JMA	X	18 23 14 22.2±.1	35.59N±.01	140.05E±.01	71±2	3.3		¶97x3249
ISC	X	**18 23 52 28**±7.6	**40.4N**±.73	**142.0E**±.73	**87**		**8**	**1-2**
JMA	X	18 23 52 26.8±.2	40.49N±.01	142.07E±.02	87±2	2.0		¶97x3259
ISC	Poorly determined							
ISC	X	**18 23 54 05**±6.7	**38.4N**±.32	**141.4E**±.82	**66**±54		**7**	**0-1**
JMA	X	18 23 54 05.3±.1	38.35N±.01	141.43E±.02	63±1	1.7		¶97x3260
ISC	Poorly determined							
ISC	X	**19 05 15 12**±2.1	**37.64N**±.086	**141.2E**±.15	**87**±22		**19**	**0-2**
JMA	X	19 05 15 12.5±.1	37.64N±.01	141.21E±.02	83±2	3.2		¶97x3294
JMA	X	**19 08 35 48.6**±.2	**34.78N**±.02	**140.08E**±.01	**63**±2	**1.7**		¶97x3316
ISC	X	**19 10 35 16**±2.0	**38.86N**±.072	**142.2E**±.25	**33**±53		**16**	**0-4**
JMA	X	19 10 35 16.0±.1	38.86N±.00	142.10E±.01	50±2	3.7		¶97x3331
ISC	X	**19 11 22 21**±1.7	**40.18N**±.062	**141.4E**±.14	**81**±21		**15**	**0-2**
JMA	X	19 11 22 21.4±.0	40.18N±.00	141.44E±.01	81±1	2.6		¶97x3338
JMA	X	**19 11 36 01.3**±.2	**35.58N**±.01	**140.13E**±.01	**100**±1			¶97x3341
ISC	X	**19 16 57 59**±2.8	**37.4N**±.21	**141.2E**±.60	**76**		**5**	**0-1**
JMA	X	19 16 57 59.0±.2	37.44N±.01	141.16E±.03	76±2	2.1		¶97x3369
ISC	Poorly determined							
ISC	X	**19 17 57 19**±3.4	**38.2N**±.14	**141.9E**±.41	**64**±45		**11**	**0-1**
JMA	X	19 17 57 19.0±.1	38.26N±.01	141.82E±.01	63±2	2.5		¶97x3376
JMA	X	**19 19 56 57.6**±.1	**40.19N**±.01	**141.51E**±.01	**77**±1	**1.0**		¶97x3388
JMA	X	**19 22 39 28.8**±.1	**36.08N**±.01	**140.83E**±.01	**39**±2	**2.8**		¶97x3399
ISC	X	**19 22 58 10**±3.4	**34.7N**±.29	**140.1E**±.16	**72**±37		**13**	**0-2**
JMA	X	19 22 58 11.4±.2	34.81N±.01	140.10E±.01	62±2	2.8		¶97x3400
ISC	X	**20 01 58 29**±1.1	**36.2N**±.10	**140.5E**±.12	**53**		**8**	**0-2**
JMA	X	20 01 58 28.9±.1	36.23N±.00	140.45E±.01	53±1	2.8		¶97x3418
JMA	X	**20 03 08 33.6**±.1	**36.29N**±.01	**140.32E**±.01	**60**±2	**2.0**		¶97x3424
ISC	X	**20 03 59 40**±3.0	**36.2N**±.13	**140.5E**±.21	**77**±35		**11**	**0-2**
JMA	X	20 03 59 41.2±.1	36.22N±.00	140.42E±.01	65±1	2.8		¶97x3431
ISC	X	**20 04 29 20**±8.5	**36.0N**±.16	**140.2E**±.79	**70**±51		**8**	**1-2**
JMA	X	20 04 29 20.9±.1	36.00N±.01	140.08E±.01	67±2	2.6		¶97x3438
JMA	X	**20 10 07 14.1**±.1	**40.43N**±.01	**141.79E**±.02	**64**±2	**1.4**		¶97x3478
ISC	X	**20 12 01 40**±5.6	**39.7N**±.11	**142.6E**±.59	**36**		**10**	**1-2**
JMA	X	20 12 01 40.0±.2	39.69N±.01	142.60E±.02	36±3	2.8		¶97x3491
ISC	X	**20 14 12 15.6**±.68	**36.33N**±.043	**140.91E**±.076	**52**±5.8	**4.6b,3.8s**	**61**	**0-147**
MOS	X	20 14 12 12.6	36.3N	141.2E	33	5.1b		¶97x3514
NEIC	X	20 14 12 14.6	36.29N	141.03E	44	4.9b		
JMA	X	20 14 12 15.6±.2	36.31N±.01	140.92E±.02	43±2	4.1		
EIDC	X	20 14 12 17.1	36.3N	141.0E	50	4.1b,3.7s		
BJI	X	20 14 12 18.0	36.34N	140.28E	44	4.8b		
NEIC	Felt I=II J1 in many parts of Ibaraki Prefecture. Also felt II J1 in southern Fukushima and western Tochigi Prefectures.							
JMA	Nodal plane solution: N102, Score 94%. NP1:ϕ_S209°,δ28°,λ88°. NP2:ϕ_S32°,δ62°,λ92°. Principle axes: T Plg73°,Azm304°; N Plg1°,Azm211°; P Plg17°,Azm121°.							
ISC	X	**20 18 38 53**±1.4	**38.85N**±.056	**142.2E**±.17	**52**±10	**3.8b**	**28**	**1-68**
JMA	X	20 18 38 53.6±.1	38.85N±.01	142.15E±.02	50±2	3.9		¶97x3545
NEIC	X	20 18 38 56.1	38.79N	142.12E	79			
EIDC	X	20 18 38 58.3	38.8N	142.1E	79	3.6b		
JMA	Felt I=II J1							
NEIC	Less reliable solution.							
NEIC	Felt I=II J in southeastern Iwate Prefecture.							
ISC	X	**20 20 10 43**±3.0	**37.5N**±.15	**141.6E**±.26	**32**±19		**10**	**1-2**
JMA	X	20 20 10 43.2±.2	37.55N±.01	141.50E±.02	41±3	2.9		¶97x3553
ISC	X	**21 10 33 41**±6.1	**39.1N**±.13	**142.5E**±.51	**25**±19		**10**	**1-2**
JMA	X	21 10 33 42.5±.2	39.06N±.01	142.35E±.02	31±3	3.3		¶97x3638
JMA	X	**21 20 00 34.2**±.4	**34.74N**±.02	**140.09E**±.02	**60**±3	**1.8**		¶97x3695
ISC	X	**21 21 41 41**±2.1	**36.5N**±.25	**140.6E**±.31	**88**		**5**	**0-1**
JMA	X	21 21 41 41.4±.1	36.49N±.01	140.57E±.01	88±1	2.0		¶97x3703
ISC	X	**21 22 01 42**±2.7	**34.8N**±.21	**140.1E**±.13	**65**±33		**11**	**0-2**
JMA	X	21 22 01 42.4±.2	34.83N±.01	140.10E±.01	64±2	2.7		¶97x3705
ISC	X	**22 00 30 29**±3.7	**38.8N**±.15	**141.6E**±.36	**66**±36		**9**	**0-1**
JMA	X	22 00 30 28.8±.1	38.82N±.01	141.60E±.01	67±2	2.3		¶97x3728
ISC	X	**22 03 39 58**±1.9	**40.5N**±.19	**141.5E**±.47	**82**		**6**	**0-1**
JMA	X	22 03 39 58.3±.1	40.46N±.00	141.46E±.01	82±1	2.0		¶97x3746
ISC	X	**22 06 41 00.0**±.69	**36.04N**±.075	**140.1E**±.10	**78**±8.0	**3.9b**	**20**	**0-92**
JMA	X	22 06 41 00.5±.1	36.03N±.01	140.11E±.01	68±2	3.6		¶97x3762
NEIC	X	22 06 41 03.7	36.32N	139.80E	100			
EIDC	X	22 06 41 04.1	36.1N	140.0E	97	3.7b		
JMA	Nodal plane solution: N105, Score 94%. NP1:ϕ_S236°,δ21°,λ151°. NP2:ϕ_S355°,δ80°,λ71°. Principle axes: T Plg52°,Azm243°; N Plg19°,Azm358°; P Plg32°,Azm100°.							
NEIC	Poor solution.							
JMA	X	**22 07 03 27.2**±.0	**36.04N**±.00	**140.11E**±.00	**61**±1	**2.0**		¶97x3764
JMA	X	**22 09 12 48.1**±.1	**36.01N**±.00	**140.10E**±.01	**61**±1	**1.9**		¶97x3782
JMA	X	**22 09 46 02.1**±.1	**36.04N**±.01	**140.10E**±.01	**62**±1	**1.7**		¶97x3787
ISC	X	**22 10 52 19**±2.1	**36.0N**±.11	**140.1E**±.15	**75**±32		**13**	**1-2**
JMA	X	22 10 52 19.0±.1	36.01N±.00	140.10E±.01	64±1	2.7		¶97x3793
ISC	X	**22 18 44 44**±3.4	**37.3N**±.16	**141.9E**±.33	**42**		**9**	**1-2**
JMA	X	22 18 44 44.4±.3	37.33N±.01	141.81E±.03	42	2.8		¶97x3871
ISC	X	**22 21 11 35**±1.8	**38.4N**±.25	**141.3E**±.65	**69**		**6**	**0-1**
JMA	X	22 21 11 35.3±.1	38.37N±.01	141.36E±.01	69±2	2.0		¶97x3883
ISC	Poorly determined							
ISC	X	**23 01 47 21**±2.1	**34.8N**±.11	**140.1E**±.12	**57**±31		**12**	**0-2**
JMA	X	23 01 47 20.9±.1	34.83N±.01	140.10E±.01	62±2	3.1		¶97x3906
ISC	X	**23 02 36 09**±1.6	**36.33N**±.092	**141.1E**±.17	**31**±14		**11**	**1-2**
JMA	X	23 02 36 08.9±.1	36.33N±.01	140.99E±.01	45±2	3.2		¶97x3914
JMA	X	**23 05 36 53.1**±.2	**36.15N**±.01	**140.04E**±.01	**66**±2	**1.6**		¶97x3931
JMA	X	**23 05 55 52.7**±.3	**36.89N**±.01	**140.90E**±.03	**84**±3	**1.9**		¶97x3932
JMA	X	**23 08 30 50.3**±.3	**34.74N**±.02	**140.11E**±.01	**60**±3	**1.9**		¶97x3951
ISC	X	**23 12 31 20.3**±.94	**38.9N**±.13	**141.1E**±.31	**78**		**7**	**0-1**
JMA	X	23 12 31 20.3±.1	38.87N±.00	141.17E±.01	78±1	1.6		¶97x3994
ISC	X	**23 17 28 39**±1.1	**35.6N**±.10	**140.1E**±.16	**63**		**9**	**0-2**
JMA	X	23 17 28 39.0±.1	35.66N±.00	140.13E±.01	63±1	2.2		¶97x4037
JMA	X	**23 17 35 17.8**±.2	**36.44N**±.01	**140.15E**±.01	**72**±2	**1.3**		¶97x4038
JMA	X	**23 23 59 56.5**±.2	**34.70N**±.01	**140.06E**±.01	**63**±2	**2.4**		¶97x4087
JMA	X	**24 03 10 56.0**±.2	**36.68N**±.01	**141.23E**±.02	**70**±2	**2.2**		¶97x4100
ISC	X	**24 03 31 42**±4.2	**34.6N**±.62	**140.0E**±.28	**61**		**9**	**0-1**
JMA	X	24 03 31 43.3±.2	34.82N±.01	140.10E±.01	61±3	2.2		¶97x4102
ISC	Poorly determined							
ISC	X	**24 09 02 13.0**±.95	**35.90N**±.068	**140.9E**±.14	**47**±10	**3.3b**	**13**	**0-60**
EIDC	X	24 09 02 09.1	35.8N	140.9E	0	3.2b,3.5L		¶97x4135
JMA	X	24 09 02 13.4±.2	35.91N±.01	140.79E±.02	39±2	3.4		
ISC	X	**24 09 44 16**±6.5	**39.9N**±.12	**142.5E**±.58	**30**±15		**10**	**0-2**
JMA	X	24 09 44 16.4±.1	39.93N±.00	142.47E±.02	40±2	3.8		¶97x4143
JMA	X	**24 14 13 01.0**±.1	**37.83N**±.01	**141.55E**±.02	**76**±2	**1.9**		¶97x4181
ISC	X	**24 15 32 37**±6.5	**39.9N**±.13	**142.5E**±.58	**30**±18		**10**	**0-2**
JMA	X	24 15 32 37.1±.2	39.92N±.01	142.43E±.02	40±2	3.1		¶97x4190
ISC	X	**24 17 16 20**±1.6	**37.5N**±.18	**141.1E**±.36	**82**		**5**	**0-1**
JMA	X	24 17 16 20.3±.1	37.48N±.01	141.06E±.01	82±2	1.6		¶97x4200
JMA	X	**24 17 36 06.6**±.1	**36.18N**±.01	**140.09E**±.01	**65**±1	**1.3**		¶97x4203
ISC	X	**24 20 44 48.0**±.91	**36.8N**±.16	**140.0E**±.25	**95**		**6**	**0-1**
JMA	X	24 20 44 48.1±.1	36.77N±.01	140.03E±.01	95±1			¶97x4220
ISC	X	**24 23 33 19**±2.5	**36.37N**±.072	**140.2E**±.10	**112**±35		**15**	**0-2**
JMA	X	24 23 33 19.5±.1	36.36N±.01	140.21E±.01	104±2			¶97x4236
ISC	X	**25 00 39 12**±3.4	**37.4N**±.11	**141.6E**±.31	**22**±20		**9**	**1-2**
JMA	X	25 00 39 13.3±.2	37.47N±.01	141.47E±.02	36±3	2.8		¶97x4244
ISC	X	**25 02 39 35**±3.1	**35.6N**±.11	**140.1E**±.16	**91**±37		**9**	**0-1**
JMA	X	25 02 39 35.6±.1	35.64N±.01	140.09E±.01	74±2	2.6		¶97x4256
ISC	X	**25 03 17 42**±3.8	**34.6N**±.43	**140.1E**±.21	**57**±48		**11**	**0-3**
JMA	X	25 03 17 43.1±.2	34.71N±.01	140.13E±.01	61±2	2.7		¶97x4264
JMA	X	**25 06 52 18.8**±.3	**40.37N**±.01	**141.71E**±.03	**101**±3			¶97x4290
ISC	X	**25 12 12 33**±2.3	**36.1N**±.11	**140.1E**±.16	**75**±31		**13**	**1-1**
JMA	X	25 12 12 33.7±.1	36.09N±.00	140.05E±.01	65±1	2.1		¶97x4320
ISC	X	**25 19 17 59**±5.9	**36.7N**±.26	**141.8E**±.50	**28**		**8**	**1-2**
JMA	X	25 19 17 58.5±.4	36.72N±.01	141.88E±.03	28±5	2.8		¶97x4362
ISC	X	**26 03 49 07**±5.9	**36.7N**±.22	**141.3E**±.53	**32**		**8**	**1-2**
JMA	X	26 03 49 05.8±.3	36.63N±.01	141.41E±.03	32±4	2.8		¶97x4410
ISC	X	**26 03 56 47**±2.3	**40.32N**±.077	**141.3E**±.26	**90**±27		**11**	**0-2**
JMA	X	26 03 56 46.8±.1	40.32N±.00	141.29E±.01	88±1	2.7		¶97x4412
ISC	X	**26 05 58 56**±7.2	**40.1N**±.13	**142.2E**±.84	**31**±16		**9**	**0-2**
JMA	X	26 05 58 53.5±.2	40.17N±.01	142.48E±.02	31±2	2.8		¶97x4425
ISC	X	**26 12 57 11**±4.1	**37.1N**±.22	**141.3E**±.50	**86**±31		**7**	**0-2**
JMA	X	26 12 57 11.5±.2	37.05N±.01	141.21E±.02	80±2	2.4		¶97x4464
ISC	X	**26 13 40 58**±2.8	**35.5N**±.23	**140.1E**±.26	**97**		**8**	**1-2**
JMA	X	26 13 40 58.0±.1	35.54N±.01	140.08E±.01	97±1			¶97x4468
ISC	X	**26 16 06 04**±2.5	**34.8N**±.23	**140.1E**±.16	**63**±31		**10**	**0-2**
JMA	X	26 16 06 04.3±.2	34.83N±.01	140.09E±.01	63±2	2.4		¶97x4493
ISC	X	**26 16 49 32**±2.1	**36.1N**±.13	**140.1E**±.16	**67**±32		**10**	**1-2**
JMA	X	26 16 49 32.8±.1	36.10N±.01	140.05E±.01	65±1	2.3		¶97x4500
ISC	X	**26 17 25 27**±2.7	**35.49N**±.095	**141.3E**±.26	**25**±20		**9**	**0-3**
JMA	X	26 17 25 28.4±.3	35.52N±.01	141.15E±.03	39±3	3.0		¶97x4502
ISC	X	**27 12 43 05**±1.1	**34.15N**±.090	**140.4E**±.11	**42**		**11**	**1-3**
JMA	X	27 12 43 04.9±.2	34.14N±.01	140.32E±.01	42±3	3.1		¶97x4610
JMA	X	**27 14 42 07.2**±.2	**38.77N**±.01	**141.41E**±.03	**99**±2			¶97x4621
ISC	X	**27 15 39 54.5**±.94	**34.8N**±.21	**140.12E**±.089	**64**		**9**	**0-1**
JMA	X	27 15 39 54.6±.2	34.83N±.01	140.11E±.01	64±2	2.4		¶97x4628
ISC	X	**27 22 52 41**±1.7	**36.16N**±.087	**141.0E**±.21	**46**		**8**	**0-1**
JMA	X	27 22 52 41.3±.2	36.17N±.01	141.02E±.02	46±4	3.0		¶97x4669
ISC	X	**28 01 53 15**±3.7	**37.2N**±.18	**142.0E**±.34	**35**		**9**	**1-2**
JMA	X	28 01 53 15.4±.3	37.26N±.01	141.87E±.02	35	3.1		¶97x4683
ISC	X	**28 02 51 36**±2.3	**36.67N**±.094	**141.7E**±.24	**39**		**10**	**1-3**
JMA	X	28 02 51 36.7±.2	36.67N±.01	141.53E±.02	39±5	3.3		¶97x4692
ISC	X	**28 12 06 27**±2.5	**40.1N**±.27	**141.3E**±.48	**93**		**6**	**0-1**
JMA	X	28 12 06 26.8±.1	40.13N±.00	141.25E±.01	93±1			¶97x4758

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**28 13 43 21**±1.0	**34.8N**±.27	**140.12E**±.096	**62**		**9**	**0-1**
JMA	X	28 13 43 21.6±.2	34.84N±.01	140.11E±.01	62±2	2.3		¶97x4766
ISC	**X**	**28 15 01 29**±1.4	**36.3N**±.21	**140.0E**±.18	**74**		**5**	**0-1**
JMA	X	28 15 01 28.9±.1	36.35N±.01	139.98E±.01	74±1	1.8		¶97x4776
ISC	**X**	**28 15 44 10**±1.5	**35.8N**±.10	**140.0E**±.22	**78**		**7**	**1-1**
JMA	X	28 15 44 09.3±.2	35.84N±.01	140.04E±.01	78±2	1.9		¶97x4783
JMA	**X**	**28 17 53 17.1**±.5	**35.88N**±.03	**141.60E**±.05	**82**	**2.1**		¶97x4795
ISC	**X**	**28 19 03 28**±3.9	**40.5N**±.11	**141.3E**±.29	**77**±46		**8**	**0-1**
JMA	X	28 19 03 27.0±.1	40.55N±.00	141.36E±.01	84±1	1.5		¶97x4801
JMA	**X**	**28 19 59 41.1**±.2	**36.57N**±.01	**140.71E**±.01	**80**±2	**1.9**		¶97x4808
JMA	**X**	**28 20 57 17.4**±.2	**39.35N**±.01	**142.11E**±.02	**82**±2	**1.9**		¶97x4814
ISC	**X**	**29 02 20 40**±1.5	**35.6N**±.14	**140.1E**±.19	**61**		**5**	**1-1**
JMA	X	29 02 20 39.8±.1	35.59N±.01	140.13E±.01	61±1	2.1		¶97x4842
ISC	**X**	**29 04 51 38**±1.0	**40.72N**±.072	**142.7E**±.17	**25**		**14**	**1-2**
JMA	X	29 04 51 37.9±.2	40.72N±.01	142.70E±.01	25±4	3.3		¶97x4854
ISC	**X**	**29 20 27 38**±1.9	**36.2N**±.21	**140.1E**±.20	**67**		**5**	**1-1**
JMA	X	29 20 27 38.1±.1	36.15N±.01	140.04E±.01	67±1	1.7		¶97x4948
ISC	**X**	**30 02 17 10**±3.1	**38.0N**±.11	**141.9E**±.33	**70**±39		**14**	**1-2**
JMA	X	30 02 17 11.0±.1	38.04N±.01	141.85E±.02	68±2	2.7		¶97x4978
ISC	**X**	**30 05 48 29**±5.7	**37.0N**±.23	**141.2E**±.97	**77**		**8**	**0-2**
JMA	X	30 05 48 29.0±.2	36.95N±.01	141.16E±.02	77±2	2.4		¶97x4998
ISC		Poorly determined						
ISC	**X**	**30 11 00 47**±3.1	**37.3N**±.14	**141.3E**±.43	**74**±40		**9**	**0-2**
JMA	X	30 11 00 46.8±.1	37.27N±.01	141.26E±.02	77±2	2.3		¶97x5025
ISC	**X**	**30 22 13 06**±3.3	**37.5N**±.14	**141.4E**±.49	**84**±52		**9**	**0-2**
JMA	X	30 22 13 06.7±.1	37.47N±.01	141.35E±.02	78±2	2.5		¶97x5094
ISC	**X**	**30 22 56 14**±1.0	**34.5N**±.12	**140.4E**±.14	**83**		**7**	**0-1**
JMA	X	30 22 56 14.0±.2	34.47N±.01	140.44E±.01	83±2	3.0		¶97x5101
ISC	**X**	**31 02 44 00**±2.5	**36.70N**±.086	**141.3E**±.23	**28**±14		**10**	**1-2**
JMA	X	31 02 44 00.1±.2	36.66N±.01	141.27E±.02	42±3	3.2		¶97x5116
ISC	**X**	**31 03 35 43**±2.4	**36.7N**±.12	**140.5E**±.18	**115**±26		**15**	**0-2**
JMA	X	31 03 35 43.9±.1	36.72N±.01	140.56E±.01	101±2			¶97x5120
ISC	**X**	**31 06 04 16**±1.2	**38.9N**±.19	**141.4E**±.60	**71**		**4**	**0-1**
JMA	X	31 06 04 15.6±.1	38.86N±.00	141.40E±.01	71±2	2.0		¶97x5142
ISC		Poorly determined						
JMA	**X**	**31 07 25 56.8**±.2	**38.85N**±.01	**141.44E**±.02	**101**±2			¶97x5151
ISC	**X**	**31 07 35 42**±7.8	**39.1N**±.21	**142.7E**±.98	**81**		**10**	**1-2**
JMA	X	31 07 35 44.5±.2	39.16N±.01	142.42E±.03	81±3	2.9		¶97x5152
ISC	**X**	**31 11 32 24**±1.8	**35.6N**±.16	**140.1E**±.25	**64**		**7**	**0-1**
JMA	X	31 11 32 23.4±.1	35.61N±.01	140.14E±.01	64±2	2.1		¶97x5170
ISC	**X**	**31 12 27 35**±3.0	**35.6N**±.23	**140.1E**±.27	**65**		**6**	**1-1**
JMA	X	31 12 27 35.6±.1	35.65N±.01	140.05E±.01	65±2	1.8		¶97x5179
ISC	**X**	**31 12 37 21**±2.4	**36.56N**±.093	**140.3E**±.14	**115**±27		**18**	**0-2**
JMA	X	31 12 37 21.9±.1	36.56N±.00	140.30E±.01	107±1	3.5		¶97x5181
JMA		Nodal plane solution: N83, Score 99%. NP1:φS323°,δ30°,λ160°. NP2:φS71°,δ80°,λ62°. Principle axes: T Plg48°,Azm311°; N Plg28°,Azm76°; P Plg29°,Azm183°.						
JMA	**X**	**31 13 06 19.2**±.1	**36.02N**±.01	**140.11E**±.01	**60**±1	**1.9**		¶97x5188
ISC	**X**	**31 19 32 22**±4.1	**38.6N**±.14	**142.4E**±.41	**37**		**11**	**1-2**
JMA	X	31 19 32 22.0±.2	38.66N±.01	142.31E±.02	37±3	3.2		¶97x5218
ISC	**X**	**31 22 28 47**±3.1	**36.5N**±.19	**140.8E**±.28	**63**±25		**11**	**0-2**
JMA	X	31 22 28 47.9±.1	36.53N±.01	140.68E±.01	56±2	2.8		¶97x5233
JMA	**XI**	**01 03 01 58.8**±.2	**37.92N**±.01	**141.58E**±.03	**85**±3	**2.3**		¶97xi0019
ISC	**XI**	**01 10 02 04**±6.6	**38.9N**±.17	**142.0E**±.76	**42**±47		**10**	**0-1**
JMA	XI	01 10 02 03.7±.1	38.88N±.01	142.09E±.02	44±2	2.8		¶97xi0057
JMA	**XI**	**01 15 45 07.8**±.1	**36.04N**±.00	**140.11E**±.01	**63**±1	**1.7**		¶97xi0099
ISC	**XI**	**01 17 37 49**±2.5	**34.8N**±.16	**140.3E**±.15	**66**±26		**12**	**0-2**
JMA	XI	01 17 37 48.7±.2	34.88N±.01	140.32E±.01	67±2	2.1		¶97xi0111
JMA	**XI**	**01 17 39 56.3**±.4	**34.81N**±.03	**140.41E**±.02	**63**±3	**1.9**		¶97xi0112
JMA	**XI**	**01 20 36 23.0**±.2	**37.05N**±.01	**141.39E**±.02	**63**±3	**1.7**		¶97xi0138
JMA	**XI**	**01 20 51 35.0**±.2	**36.35N**±.01	**140.02E**±.01	**69**±2	**1.3**		¶97xi0139
ISC	**XI**	**01 21 59 03**±3.4	**37.3N**±.16	**141.9E**±.33	**37**		**9**	**1-2**
JMA	XI	01 21 59 03.4±.2	37.38N±.01	141.85E±.02	37±4	3.1		¶97xi0144
JMA	**XI**	**01 22 39 15.1**±.1	**36.06N**±.00	**140.13E**±.01	**68**±1	**1.7**		¶97xi0152
ISC	**XI**	**02 01 34 48**±3.5	**36.1N**±.42	**140.3E**±.40	**73**		**6**	**1-1**
JMA	XI	02 01 34 47.9±.1	36.14N±.01	140.30E±.01	73±1	1.8		¶97xi0180
ISC		Poorly determined						
JMA	**XI**	**02 05 59 20.5**±.2	**40.97N**±.01	**141.62E**±.04	**107**±2			¶97xi0204
ISC	**XI**	**02 18 36 33**±3.5	**37.4N**±.17	**141.4E**±.47	**87**±29		**9**	**0-2**
JMA	XI	02 18 36 33.3±.1	37.39N±.01	141.26E±.02	83±2	2.4		¶97xi0317
ISC	**XI**	**02 21 00 52**±1.2	**35.93N**±.055	**141.4E**±.14	**41**±9.4	**4.0b**	**26**	**1-78**
NEIC	XI	02 21 00 51.5	35.87N	141.49E	33	4.2b		¶97xi0336
JMA	XI	02 21 00 52.1±.3	35.98N±.01	141.42E±.02	32±4	3.9		
BJI	XI	02 21 00 53.5	35.90N	141.40E	50	4.3b		
EIDC	XI	02 21 00 54.7	35.9N	141.4E	39	3.7b,4.0L		
NEIC		Less reliable solution.						
ISC	**XI**	**03 03 03 41**±6.3	**39.1N**±.11	**142.3E**±.64	**36**		**9**	**1-1**
JMA	XI	03 03 03 41.5±.4	39.08N±.01	142.26E±.04	36±4	2.9		¶97xi0385
ISC	**XI**	**03 03 14 51**±1.6	**38.7N**±.19	**141.3E**±.60	**80**		**5**	**0-1**
JMA	XI	03 03 14 50.5±.2	38.74N±.01	141.24E±.03	80±2	1.4		¶97xi0390
ISC		Poorly determined						
JMA	**XI**	**03 03 20 35.8**±.1	**36.03N**±.01	**140.12E**±.01	**61**±1	**1.6**		¶97xi0393
ISC	**XI**	**03 07 20 58**±2.6	**37.6N**±.11	**141.9E**±.27	**43**		**12**	**1-2**
JMA	XI	03 07 20 58.5±.2	37.61N±.01	141.89E±.02	43±5	3.0		¶97xi0428
ISC	**XI**	**03 07 58 19**±4.1	**35.6N**±.16	**140.2E**±.26	**86**±44		**8**	**0-1**
JMA	XI	03 07 58 20.4±.2	35.61N±.01	140.14E±.01	68±2	2.2		¶97xi0430
ISC	**XI**	**03 08 26 19**±5.6	**40.27N**±.097	**142.5E**±.48	**16**±24		**11**	**1-2**
JMA	XI	03 08 26 21.1±.2	40.24N±.00	142.39E±.02	34±2	3.4		¶97xi0436
ISC	**XI**	**03 08 35 44.8**±.60	**35.99N**±.053	**140.12E**±.095	**74**±6.4	**3.7b**	**24**	**0-92**
EIDC	XI	03 08 35 44.4	36.0N	140.3E	51	3.6b,4.0L		¶97xi0438
JMA	XI	03 08 35 45.2±.1	36.00N±.01	140.10E±.01	69±2	3.5		
NEIC	XI	03 08 35 45.9	35.96N	140.01E	83			
JMA		Nodal plane solution: N119, Score 97%. NP1:φS202°,δ2°,λ91°. NP2:φS22°,δ88°,λ90°. Principle axes: T Plg47°,Azm292°; N Plg0°,Azm22°; P Plg43°,Azm112°.						
NEIC		Poor solution.						
ISC	**XI**	**03 09 24 12**±2.8	**36.0N**±.25	**140.1E**±.23	**62**		**5**	**1-1**
JMA	XI	03 09 24 11.9±.1	36.02N±.01	140.10E±.01	62±1	1.8		¶97xi0445
ISC	**XI**	**03 14 31 18**±9.5	**36.7N**±.32	**141.8E**±.84	**29**		**10**	**1-3**
JMA	XI	03 14 31 13.8±.4	36.62N±.02	142.06E±.03	29	2.8		¶97xi0479
JMA	**XI**	**03 16 31 44.8**±.2	**35.02N**±.06	**140.36E**±.02	**100**			¶97xi0493
ISC	**XI**	**03 21 20 37**±9.3	**36.6N**±.62	**141.1E**±.97	**93**±38		**8**	**0-2**
JMA	XI	03 21 20 37.9±.2	36.63N±.01	141.00E±.02	86±2	2.3		¶97xi0521
ISC	**XI**	**04 01 53 46**±3.3	**37.3N**±.15	**141.9E**±.32	**44**		**9**	**1-2**
JMA	XI	04 01 53 46.3±.4	37.36N±.02	141.81E±.04	44	3.2		¶97xi0557
ISC	**XI**	**04 01 58 08**±3.5	**36.0N**±.40	**140.1E**±.33	**61**		**4**	**1-1**
JMA	XI	04 01 58 07.8±.1	36.03N±.00	140.10E±.00	61±1	2.0		¶97xi0558
ISC		Poorly determined						
JMA	**XI**	**04 14 33 23.9**±.2	**40.57N**±.01	**141.80E**±.01	**60**±2	**1.6**		¶97xi0652
JMA	**XI**	**04 18 12 57.5**±.1	**36.05N**±.01	**140.13E**±.01	**62**±1	**1.7**		¶97xi0672
ISC	**XI**	**04 19 38 34.4**±.73	**39.38N**±.049	**142.2E**±.10	**62**±5.9	**4.2b**	**45**	**0-155**
JMA	XI	04 19 38 33.6±.1	39.35N±.00	142.35E±.02	52±2	4.4		¶97xi0680
NEIC	XI	04 19 38 35.8	39.37N	142.13E	75	4.6b		
EIDC	XI	04 19 38 37.4	39.3N	142.2E	73	3.8b		
BJI	XI	04 19 38 37.7	39.44N	142.28E	96	4.7b		
NEIC		Felt I=III MM.						
NEIC		Felt I=II J1 in southeastern Iwate Prefecture.						
ISC	**XI**	**04 19 49 29**±4.7	**39.3N**±.11	**142.3E**±.45	**46**±47		**10**	**0-2**
JMA	XI	04 19 49 28.6±.2	39.35N±.01	142.34E±.02	49±2	2.8		¶97xi0683
ISC	**XI**	**04 22 30 00**±1.1	**40.67N**±.055	**142.7E**±.15	**29**		**14**	**1-2**
JMA	XI	04 22 30 00.0±.1	40.67N±.01	142.64E±.02	29	3.6		¶97xi0699
JMA	**XI**	**05 02 31 57.4**±.4	**35.99N**±.02	**140.09E**±.02	**62**±3	**2.1**		¶97xi0719
ISC	**XI**	**05 03 48 09**±4.1	**40.16N**±.090	**142.4E**±.37	**24**±15		**12**	**0-12**
JMA	XI	05 03 48 08.3±.2	40.17N±.00	142.45E±.02	31±2	3.0		¶97xi0727
JMA	**XI**	**05 05 47 12.3**±.3	**38.49N**±.01	**141.97E**±.03	**74**±3	**2.2**		¶97xi0739
JMA	**XI**	**05 06 32 40.3**±.1	**37.58N**±.00	**141.39E**±.01	**75**±2	**2.4**		¶97xi0744
ISC	**XI**	**05 09 44 04.8**±.64	**36.55N**±.045	**141.12E**±.065	**51**±5.8	**4.4b,4.3s**	**71**	**0-147**
JMA	XI	05 09 44 03.7±.2	36.58N±.01	141.22E±.02	45±3	4.5		¶97xi0763
NEIC	XI	05 09 44 03.7	36.56N	141.11E	43	4.6b		
BJI	XI	05 09 44 04.5	36.34N	141.21E	68	4.6b,4.3s		
EIDC	XI	05 09 44 05.3	36.6N	141.3E	43	4.1b,4.6L		
JMA		Felt I=II J1						
JMA		Nodal plane solution: N67, Score 91%. NP1:φS161°,δ13°,λ57°. NP2:φS14°,δ79°,λ98°. Principle axes: T Plg55°,Azm293°; N Plg7°,Azm193°; P Plg34°,Azm98°.						
ISC	**XI**	**05 11 18 24**±3.0	**36.6N**±.11	**141.3E**±.29	**26**±19		**8**	**1-2**
JMA	XI	05 11 18 24.6±.2	36.58N±.01	141.21E±.02	43±3	2.8		¶97xi0783
ISC	**XI**	**05 11 24 47**±2.1	**35.63N**±.098	**140.2E**±.15	**84**±26		**12**	**0-2**
JMA	XI	05 11 24 48.3±.1	35.66N±.01	140.13E±.01	68±2	3.1		¶97xi0785
ISC	**XI**	**05 13 49 19.0**±.71	**40.70N**±.049	**142.6E**±.11	**51**±8.3	**3.9b,**3.3s	**32**	**1-74**
EIDC	XI	05 13 49 09.5	39.9N	142.4E	0	3.8b,3.6L		¶97xi0809
NEIC	XI	05 13 49 12.4	39.93N	142.22E	33	4.8b		
JMA	XI	05 13 49 17.8±.2	40.67N±.00	142.60E±.01	23±3	4.0		
NEIC		Less reliable solution.						
ISC	**XI**	**05 17 00 39**±2.7	**40.39N**±.098	**141.3E**±.19	**87**±30		**11**	**0-1**
JMA	XI	05 17 00 39.0±.0	40.39N±.00	141.34E±.01	86±1	2.1		¶97xi0831
JMA	**XI**	**05 17 57 57.2**±.1	**36.03N**±.00	**140.12E**±.01	**62**±1	**1.9**		¶97xi0839
ISC	**XI**	**05 18 15 00**±1.1	**40.66N**±.061	**142.6E**±.16	**26**		**13**	**1-2**
JMA	XI	05 18 14 59.5±.3	40.66N±.01	142.58E±.02	26±4	3.1		¶97xi0842
ISC	**XI**	**05 18 57 17**±3.1	**35.2N**±.13	**140.4E**±.18	**98**±32		**11**	**0-2**
JMA	XI	05 18 57 17.4±.1	35.29N±.01	140.38E±.01	93±1			¶97xi0845
ISC	**XI**	**06 11 31 41**±2.2	**36.67N**±.094	**141.1E**±.19	**94**±23		**14**	**0-2**
JMA	XI	06 11 31 41.4±.1	36.65N±.01	141.03E±.02	86±2	3.1		¶97xi0971
ISC	**XI**	**06 16 13 20**±2.2	**36.3N**±.49	**140.2E**±.39	**97**		**5**	**0-1**
JMA	XI	06 16 13 20.2±.2	36.25N±.01	140.17E±.01	97±2			¶97xi1001
ISC		Poorly determined						
ISC	**XI**	**06 17 19 14.6**±.93	**35.62N**±.094	**140.3E**±.15	**53**±9.0	**3.6b**	**14**	**0-59**
EIDC	XI	06 17 19 10.2	35.5N	140.4E	0	3.6b,3.2L		¶97xi1005
NEIC	XI	06 17 19 12.8	35.50N	140.37E	33			
JMA	XI	06 17 19 13.9±.2	35.69N±.01	140.27E±.01	54±2	3.3		
NEIC		Poor solution.						
ISC	**XI**	**07 06 16 42.9**±.73	**35.30N**±.075	**140.2E**±.11	**58**±7.3	**3.6b**	**17**	**0-59**
JMA	XI	07 06 16 42.6±.1	35.34N±.00	140.25E±.01	57±1	3.1		¶97xi1086
EIDC	XI	07 06 16 42.6	34.7N	138.0E	0	3.6b,3.1L		
JMA	**XI**	**07 09 13 38.1**±.3	**34.75N**±.02	**140.10E**±.02	**60**±3	**1.9**		¶97xi1105
ISC	**XI**	**07 10 24 02**±8.4	**40.1N**±.17	**142.2E**±.68	**102**±56		**9**	**0-1**
JMA	XI	07 10 24 03.7±.1	40.03N±.01	142.05E±.02	86±1	2.3		¶97xi1116
ISC	**XI**	**07 14 00 24**±2.9	**40.37N**±.093	**141.3E**±.23	**89**±32		**11**	**0-1**
JMA	XI	07 14 00 24.4±.1	40.37N±.00	141.29E±.01	88±1	2.1		¶97xi1133
ISC	**XI**	**07 16 21 07**±1.8	**40.71N**±.068	**141.7E**±.19	**66**±33		**12**	**0-2**
JMA	XI	07 16 21 06.7±.1	40.71N±.00	141.65E±.01	67±1	2.7		¶97xi1144
ISC	**XI**	**07 16 31 19**±4.9	**35.0N**±.32	**140.1E**±.22	**70**±48		**10**	**0-1**
JMA	XI	07 16 31 19.4±.2	35.04N±.01	140.08E±.01	61±2	2.2		¶97xi1145
ISC	**XI**	**07 17 21 42**±2.3	**36.1N**±.13	**140.0E**±.16	**70**±33		**10**	**1-2**
JMA	XI	07 17 21 42.7±.1	36.09N±.00	140.01E±.00	67±1	2.1		¶97xi1151
JMA	**XI**	**07 20 41 32.8**±.2	**37.72N**±.01	**141.44E**±.02	**73**±2	**1.8**		¶97xi1167
ISC	**XI**	**07 20 47 11**±5.1	**37.6N**±.31	**141.6E**±.64	**74**		**7**	**1-1**
JMA	XI	07 20 47 11.0±.2	37.63N±.01	141.56E±.02	74±2	1.9		¶97xi1168
ISC	**XI**	**08 00 12 49**±2.9	**37.0N**±.19	**141.5E**±.37	**77**±36		**16**	**1-3**
JMA	XI	08 00 12 49.6±.2	37.04N±.01	141.39E±.02	76±3	2.8		¶97xi1188
ISC	**XI**	**08 02 16 44**±1.9	**36.75N**±.082	**141.5E**±.20	**43**		**13**	**1-3**
JMA	XI	08 02 16 43.6±.2	36.75N±.01	141.51E±.02	43±4	3.9		¶97xi1197
ISC	**XI**	**08 03 03 27**±5.9	**35.7N**±.11	**140.1E**±.36	**83**±60		**10**	**0-2**
JMA	XI	08 03 03 27.8±.1	35.76N±.01	140.06E±.01	69±2	2.7		¶97xi1201
ISC	**XI**	**08 05 16 29.1**±.76	**36.47N**±.070	**140.64E**±.099	**67**±5.4	**3.7b**	**26**	**0-83**
NEIC	XI	08 05 16 24.7	36.46N	140.97E	33			¶97xi1216
JMA	XI	08 05 16 29.4±.1	36.46N±.00	140.61E±.01	57±2	3.9		
EIDC	XI	08 05 16 32.6	36.4N	140.4E	82	3.6b		
NEIC		Less reliable solution.						
JMA		Felt I=II J1						
JMA	**XI**	**08 07 47 41.7**±.3	**35.32N**±.02	**140.13E**±.02	**67**±3	**2.0**		¶97xi1231
ISC	**XI**	**08 09 34 10**±3.3	**40.14N**±.086	**142.4E**±.35	**31**		**11**	**0-2**
JMA	XI	08 09 34 09.7±.1	40.16N±.00	142.46E±.01	31±2	2.8		¶97xi1247
JMA	**XI**	**08 13 30 49.4**±.1	**35.80N**±.00	**140.09E**±.01	**61**±1	**1.7**		¶97xi1287
ISC	**XI**	**08 18 39 01**±2.0	**36.14N**±.098	**140.1E**±.13	**69**±28		**13**	**1-2**
JMA	XI	08 18 39 02.1±.1	36.15N±.01	140.06E±.01	63±1	2.8		¶97xi1334
ISC	**XI**	**08 18 41 17**±1.2	**36.20N**±.056	**140.9E**±.13	**29**±9.4	**3.7b**	**19**	**0-60**
NEIC	XI	08 18 41 15.7	35.94N	141.03E	33			¶97xi1335
JMA	XI	08 18 41 16.8±.1	36.19N±.01	140.83E±.01	42±2	3.7		
EIDC	XI	08 18 41 18.5	36.2N	141.4E	50	3.5b,3.8L		
NEIC		Poor solution.						
JMA		Felt I=II J1						
ISC	**XI**	**08 18 48 24**±2.5	**37.9N**±.10	**141.7E**±.33	**87**±35		**12**	**1-2**
JMA	XI	08 18 48 24.5±.1	37.91N±.01	141.61E±.02	81±2	2.6		¶97xi1336
JMA	**XI**	**09 00 27 20.6**±.3	**36.94N**±.01	**140.33E**±.03	**85**±3	**1.7**		¶97xi1370
JMA	**XI**	**09 03 42 55.8**±.1	**36.12N**±.01	**140.08E**±.01	**63**±1	**1.4**		¶97xi1390
JMA	**XI**	**09 09 08 08.3**±.1	**35.89N**±.01	**140.54E**±.02	**65**±2	**1.7**		¶97xi1424
ISC	**XI**	**09 10 12 51**±1.1	**40.80N**±.060	**142.8E**±.14	**14**		**16**	**1-2**
JMA	XI	09 10 12 51.0±.4	40.80N±.01	142.71E±.02	14±5	3.1		¶97xi1430
ISC	**XI**	**09 15 20 01**±4.2	**37.0N**±.17	**141.7E**±.39	**33**		**11**	**1-3**
JMA	XI	09 15 19 59.2±.3	36.90N±.01	141.72E±.02	33±4	2.9		¶97xi1465
ISC	**XI**	**10 01 38 24**±2.5	**38.7N**±.19	**141.1E**±.72	**107**		**6**	**0-1**
JMA	XI	10 01 38 24.7±.1	38.72N±.01	141.23E±.02	107±1			¶97xi1542
ISC	**XI**	**10 01 47 56**±10	**36.6N**±.40	**141.4E**±.88	**40**		**7**	**1-3**
JMA	XI	10 01 47 58.5±.2	36.69N±.01	141.18E±.02	40±3	3.1		¶97xi1543
JMA	**XI**	**10 06 11 57.9**±.1	**36.18N**±.01	**140.05E**±.01	**68**±1	**2.0**		¶97xi1568
ISC	**XI**	**10 08 23 36**±3.8	**36.5N**±.36	**140.7E**±.72	**77**		**5**	**0-1**
JMA	XI	10 08 23 35.5±.2	36.42N±.01	140.60E±.01	77±2	2.1		¶97xi1582
ISC		Poorly determined						
ISC	**XI**	**10 09 32 54**±1.1	**34.7N**±.15	**140.3E**±.13	**70**		**11**	**0-1**
JMA	XI	10 09 32 54.0±.2	34.74N±.01	140.26E±.01	70±2	2.4		¶97xi1591

ISC	**XI**	**10 10 56 42**±1.8	**34.86N**±.099	**140.1E**±.10	**65**±22			**14**	**0-2**	
JMA	XI	10 10 56 42.3±.1	34.88N±.01	140.07E±.01	66±1	3.0		**¶97xi1604**		
ISC	**XI**	**10 13 22 48**±1.5	**36.8N**±.18	**140.7E**±.30	**87**			**6**	**0-1**	
JMA	XI	10 13 22 48.1±.2	36.72N±.01	140.73E±.01	87±2	2.1		**¶97xi1617**		
JMA	**XI**	**10 14 34 41.2**±.1	**38.76N**±.00	**141.38E**±.01	**66**±1	**1.3**		**¶97xi1622**		
JMA	**XI**	**10 14 44 25.8**±.3	**34.76N**±.02	**140.04E**±.02	**64**±2	**1.5**		**¶97xi1623**		
ISC	**XI**	**10 15 18 44**±2.0	**37.83N**±.094	**141.7E**±.22	**52**			**15**	**1-2**	
JMA	XI	10 15 18 44.5±.1	37.85N±.00	141.70E±.01	52±1	2.9		**¶97xi1625**		
JMA	**XI**	**10 15 34 21.8**±.1	**36.85N**±.00	**140.89E**±.01	**81**±1	**1.6**		**¶97xi1629**		
ISC	**XI**	**10 15 40 18**±2.8	**36.0N**±.16	**140.4E**±.20	**65**±38			**9**	**1-2**	
JMA	XI	10 15 40 18.1±.1	36.06N±.01	140.38E±.01	66±1	1.7		**¶97xi1631**		
ISC	**XI**	**10 18 10 24**±1.6	**36.6N**±.22	**140.3E**±.21	**92**			**7**	**0-1**	
JMA	XI	10 18 10 24.4±.1	36.57N±.00	140.31E±.01	92±1			**¶97xi1655**		
ISC	**XI**	**10 19 36 36**±1.3	**36.9N**±.15	**140.6E**±.40	**67**			**6**	**0-1**	
JMA	XI	10 19 36 36.0±.1	36.94N±.00	140.64E±.01	67±1	1.8		**¶97xi1664**		
ISC	**XI**	**10 20 00 43**±3.7	**35.0N**±.35	**140.0E**±.26	**64**±34			**7**	**0-2**	
JMA	XI	10 20 00 42.9±.3	34.91N±.02	139.94E±.01	64±3	2.0		**¶97xi1665**		
JMA	**XI**	**10 20 13 23.3**±.2	**36.16N**±.01	**140.38E**±.02	**92**±2			**¶97xi1666**		
ISC	**XI**	**10 21 20 21**±3.1	**37.2N**±.15	**141.2E**±.48	**77**			**6**	**0-2**	
JMA	XI	10 21 20 21.4±.1	37.25N±.01	141.22E±.02	77±1	2.1		**¶97xi1679**		
ISC	**XI**	**11 00 51 44**±3.1	**38.09N**±.099	**142.5E**±.33	**29**			**13**	**1-2**	
JMA	XI	11 00 51 42.3±.3	38.07N±.01	142.61E±.02	29±3	3.2		**¶97xi1701**		
ISC	**XI**	**11 03 08 11**±3.0	**38.1N**±.12	**142.5E**±.29	**22**			**13**	**1-2**	
JMA	XI	11 03 08 09.2±.4	38.07N±.01	142.61E±.02	22±4	3.0		**¶97xi1718**		
ISC	**XI**	**11 12 24 53**±1.7	**34.86N**±.097	**140.05E**±.099	**62**±22			**14**	**0-2**	
JMA	XI	11 12 24 53.2±.1	34.89N±.01	140.06E±.01	65±1	2.7		**¶97xi1785**		
JMA	**XI**	**11 12 56 08.5**±.3	**40.94N**±.01	**141.59E**±.04	**73**±3	**1.6**		**¶97xi1792**		
ISC	**XI**	**11 15 40 26**±2.5	**38.10N**±.087	**142.5E**±.25	**27**			**19**	**1-4**	
JMA	XI	11 15 40 23.6±.2	38.06N±.00	142.63E±.01	27±3	3.8		**¶97xi1817**		
ISC	**XI**	**12 03 37 44**±4.7	**37.1N**±.22	**141.2E**±.82	**75**			**5**	**0-1**	
JMA	XI	12 03 37 44.1±.3	37.07N±.01	141.09E±.02	75±2	2.2		**¶97xi1927**		
ISC	Poorly determined									
ISC	**XI**	**12 07 30 14**±2.5	**37.0N**±.11	**140.3E**±.15	**129**±27			**15**	**0-2**	
JMA	XI	12 07 30 15.4±.1	36.89N±.01	140.36E±.01	113±2			**¶97xi1951**		
ISC	**XI**	**12 11 46 46**±2.0	**35.57N**±.094	**140.2E**±.14	**85**±21			**14**	**0-2**	
JMA	XI	12 11 46 47.2±.1	35.59N±.01	140.16E±.01	73±2	3.3		**¶97xi1977**		
ISC	**XI**	**12 12 41 35**±3.8	**40.27N**±.095	**142.3E**±.37	**31**±17			**11**	**0-2**	
JMA	XI	12 12 41 34.5±.1	40.27N±.00	142.33E±.01	38±1	3.4		**¶97xi1985**		
ISC	**XI**	**12 14 40 11**±2.3	**35.62N**±.098	**140.1E**±.15	**85**±27			**12**	**0-2**	
JMA	XI	12 14 40 12.2±.1	35.65N±.01	140.05E±.01	72±2	2.8		**¶97xi1996**		
JMA	**XI**	**12 18 36 49.7**±.5	**34.98N**±.03	**140.90E**±.03	**63**±4	**2.3**		**¶97xi2022**		
JMA	**XI**	**13 02 49 04.2**±.2	**37.09N**±.01	**141.16E**±.02	**81**±3	**2.3**		**¶97xi2067**		
ISC	**XI**	**13 09 37 09**±3.6	**41.0N**±.30	**141.7E**±.85	**108**			**5**	**1-2**	
JMA	XI	13 09 37 08.9±.2	40.96N±.01	141.65E±.02	108±3			**¶97xi2111**		
ISC	Poorly determined									
ISC	**XI**	**13 12 35 01**±5.4	**38.9N**±.15	**141.7E**±.32	**65**±51			**9**	**0-1**	
JMA	XI	13 12 35 01.0±.1	38.87N±.00	141.71E±.01	65±1	1.8		**¶97xi2134**		
JMA	**XI**	**13 18 48 31.4**±.3	**35.98N**±.02	**140.02E**±.02	**94**±3			**¶97xi2179**		
ISC	**XI**	**13 19 06 50**±1.3	**40.1N**±.17	**141.1E**±.23	**92**			**8**	**0-1**	
JMA	XI	13 19 06 49.5±.1	40.14N±.01	141.14E±.01	92±1			**¶97xi2180**		
JMA	**XI**	**13 20 03 08.5**±.1	**36.74N**±.01	**140.32E**±.01	**107**±2			**¶97xi2187**		
ISC	**XI**	**13 23 43 19**±6.4	**40.9N**±.20	**141.6E**±.31	**109**±64			**8**	**0-1**	
JMA	XI	13 23 43 19.4±.1	40.87N±.01	141.61E±.01	105±1			**¶97xi2207**		
JMA	**XI**	**14 01 01 52.1**±.1	**35.65N**±.01	**140.05E**±.01	**67**±2	**2.4**		**¶97xi2216**		
JMA	**XI**	**14 01 56 57.5**±.2	**35.77N**±.01	**140.00E**±.01	**67**±2	**2.4**		**¶97xi2219**		
ISC	**XI**	**14 02 30 03**±3.3	**36.4N**±.20	**140.7E**±.27	**70**±29			**11**	**0-2**	
JMA	XI	14 02 30 04.3±.1	36.45N±.00	140.56E±.01	62±1	2.8		**¶97xi2226**		
ISC	**XI**	**14 04 43 46**±4.3	**36.7N**±.24	**141.1E**±.53	**61**			**9**	**0-2**	
JMA	XI	14 04 43 46.3±.1	36.75N±.01	140.96E±.01	61±2	3.0		**¶97xi2240**		
ISC	**XI**	**14 04 49 03**±3.4	**36.3N**±.19	**140.8E**±.29	**61**±29			**12**	**0-2**	
JMA	XI	14 04 49 04.8±.1	36.42N±.01	140.69E±.01	56±2	3.5		**¶97xi2241**		
JMA	Felt I=II J1									
ISC	**XI**	**14 05 19 05**±1.7	**35.6N**±.17	**140.1E**±.25	**64**			**4**	**1-1**	
JMA	XI	14 05 19 05.3±.1	35.61N±.01	140.07E±.01	64±1	2.2		**¶97xi2246**		
ISC	Poorly determined									
JMA	**XI**	**14 12 19 46.0**±.1	**36.17N**±.01	**140.09E**±.01	**67**±1	**1.5**		**¶97xi2289**		
JMA	**XI**	**14 13 29 51.2**±.1	**37.06N**±.01	**141.11E**±.01	**82**±1	**1.9**		**¶97xi2293**		
ISC	**XI**	**14 16 47 57**±2.5	**40.07N**±.078	**141.8E**±.24	**66**±25			**12**	**0-1**	
JMA	XI	14 16 47 57.5±.1	40.06N±.00	141.79E±.01	61±1	3.3		**¶97xi2320**		
ISC	**XI**	**14 17 37 36**±4.6	**39.63N**±.099	**142.5E**±.49	**37**			**10**	**1-2**	
JMA	XI	14 17 37 35.3±.2	39.63N±.01	142.56E±.02	37±3	2.8		**¶97xi2328**		
ISC	**XI**	**14 18 54 22**±7.0	**34.6N**±.76	**140.3E**±.24	**60**			**4**	**0-1**	
JMA	XI	14 18 54 22.7±.6	34.66N±.05	140.35E±.03	60±5	2.2		**¶97xi2334**		
ISC	Poorly determined									
ISC	**XI**	**15 01 50 29**±5.2	**39.0N**±.16	**142.5E**±.51	**34**			**9**	**1-2**	
JMA	XI	15 01 50 29.8±.2	39.03N±.01	142.40E±.02	34±3	2.9		**¶97xi2401**		
ISC	**XI**	**15 04 42 35.1**±.51	**36.86N**±.037	**141.33E**±.052	**72**±4.0	**4.8b**		**158**	**0-147**	
BJI	XI	15 04 42 31.3	36.86N	141.34E	46	5.0b,4.0s		**¶97xi2418**		
JMA	XI	15 04 42 34.1±.1	36.87N±.00	141.52E±.02	64±3	4.9				
EIDC	XI	15 04 42 34.1	36.8N	141.5E	51	4.3b,4.1s				
MOS	XI	15 04 42 34.8	36.9N	141.4E	72	5.5b				
NEIC	XI	15 04 42 35.4	36.86N	141.36E	75	4.9b				
JMA	Nodal plane solution: N176, Score 94%. NP1:ϕ_S34°,δ41°,λ143°. NP2:ϕ_S155°,δ66°,λ56°. Principle axes: T Plg55°,Azm21°; N Plg31°,Azm170°; P Plg15°,Azm269°.									
NEIC	Felt I=V MM.									
NEIC	Felt I=III J1 in eastern Fukushima and II J1 in much of Ibaraki and Tochigi Prefectures. Also felt II J in southeastern Iwate and southern Miyagi Prefectures.									
ISC	**XI**	**15 07 15 39.7**±.78	**40.69N**±.049	**142.1E**±.12	**46**			**15**	**1-2**	
JMA	XI	15 07 15 39.4±.0	40.68N±.00	142.14E±.01	46±2	3.4		**¶97xi2438**		
ISC	**XI**	**15 08 38 15.3**±.40	**40.60N**±.047	**141.4E**±.12	**127**±4.6	**3.9b**		**29**	**0-78**	
NEIC	XI	15 08 38 15.6	40.62N	141.25E	128			**¶97xi2447**		
EIDC	XI	15 08 38 15.8	40.6N	141.3E	115	3.6b				
JMA	XI	15 08 38 16.4±.1	40.64N±.00	141.45E±.01	111±1	3.3				
NEIC	Less reliable solution.									
ISC	**XI**	**15 12 58 48**±1.8	**36.3N**±.22	**140.2E**±.24	**75**			**5**	**0-1**	
JMA	XI	15 12 58 48.5±.1	36.33N±.01	140.20E±.01	75±1	1.9		**¶97xi2478**		
ISC	Poorly determined									
ISC	**XI**	**15 13 23 19**±4.5	**36.8N**±.20	**141.7E**±.42	**56**±42			**13**	**1-3**	
JMA	XI	15 13 23 19.8±.1	36.86N±.01	141.49E±.02	60±3	4.0		**¶97xi2481**		
JMA	**XI**	**15 15 01 59.9**±.2	**36.15N**±.01	**140.03E**±.01	**67**±2	**1.5**		**¶97xi2495**		
ISC	**XI**	**15 16 16 41**±2.8	**36.9N**±.21	**140.2E**±.67	**117**			**6**	**0-1**	
JMA	XI	15 16 16 40.5±.1	36.83N±.01	140.18E±.01	117±1			**¶97xi2505**		
JMA	**XI**	**15 19 58 16.7**±.1	**36.04N**±.01	**140.02E**±.01	**78**±1	**1.6**		**¶97xi2526**		
JMA	**XI**	**15 22 10 21.3**±.1	**36.18N**±.01	**140.09E**±.01	**64**±2	**1.4**		**¶97xi2548**		
ISC	**XI**	**16 06 58 57**±2.0	**36.64N**±.072	**140.3E**±.11	**113**±25			**18**	**0-2**	
JMA	XI	16 06 58 57.4±.1	36.61N±.00	140.29E±.01	106±1			**¶97xi2610**		
ISC	**XI**	**16 09 35 39**±5.3	**38.9N**±.13	**141.6E**±.32	**113**±52			**11**	**0-1**	
JMA	XI	16 09 35 40.1±.1	38.90N±.01	141.59E±.01	102±1			**¶97xi2627**		
ISC	**XI**	**16 10 36 55**±1.5	**36.31N**±.086	**141.0E**±.17	**46**			**10**	**0-2**	
JMA	XI	16 10 36 55.4±.1	36.32N±.00	140.94E±.01	46±2	2.8		**¶97xi2635**		
ISC	**XI**	**16 11 20 58**±3.2	**38.9N**±.14	**141.4E**±.36	**81**±34			**11**	**0-1**	
JMA	XI	16 11 20 58.3±.1	38.89N±.00	141.42E±.01	79±1	1.9		**¶97xi2639**		
ISC	**XI**	**17 05 16 25**±4.4	**38.0N**±.13	**142.3E**±.48	**41**			**10**	**1-2**	
JMA	XI	17 05 16 24.3±.2	38.01N±.01	142.26E±.02	41±3	3.2		**¶97xi2741**		
ISC	**XI**	**17 09 12 22**±4.5	**40.7N**±.34	**141.7E**±.65	**71**			**4**	**0-1**	
JMA	XI	17 09 12 22.1±.1	40.69N±.00	141.66E±.01	71±1	1.9		**¶97xi2770**		
ISC	Poorly determined									
ISC	**XI**	**17 11 56 41**±2.0	**36.39N**±.064	**141.4E**±.18	**23**±13			**14**	**1-3**	
JMA	XI	17 11 56 40.9±.2	36.38N±.01	141.39E±.02	49±3	3.4		**¶97xi2793**		
JMA	**XI**	**17 13 31 54.7**±.1	**36.12N**±.01	**140.09E**±.01	**63**±1	**1.9**		**¶97xi2806**		
ISC	**XI**	**17 14 08 33**±2.0	**36.0N**±.13	**140.3E**±.19	**39**			**8**	**1-2**	
JMA	XI	17 14 08 32.3±.1	36.00N±.00	140.26E±.01	39±1	2.9		**¶97xi2813**		
ISC	**XI**	**17 16 08 06**±5.9	**36.1N**±.34	**140.2E**±.30	**60**±54			**6**	**1-2**	
JMA	XI	17 16 08 05.6±.2	36.09N±.01	140.22E±.01	69±2	2.1		**¶97xi2826**		
JMA	**XI**	**17 16 31 00.6**±.4	**36.64N**±.02	**140.09E**±.02	**83**±3	**1.7**		**¶97xi2828**		
ISC	**XI**	**17 16 49 46**±3.4	**36.1N**±.11	**140.6E**±.17	**100**±39			**13**	**0-2**	
JMA	XI	17 16 49 46.7±.1	36.09N±.01	140.52E±.01	89±2	2.4		**¶97xi2831**		
ISC	**XI**	**17 16 57 33**±6.1	**38.9N**±.14	**141.4E**±.45	**90**±59			**9**	**0-1**	
JMA	XI	17 16 57 33.5±.1	38.86N±.00	141.42E±.01	85±1	1.7		**¶97xi2834**		
ISC	**XI**	**17 17 49 24**±1.2	**35.1N**±.41	**140.2E**±.18	**72**			**7**	**0-1**	
JMA	XI	17 17 49 24.2±.3	35.09N±.01	140.19E±.01	72±2	2.4		**¶97xi2842**		
ISC	**XI**	**17 22 02 10**±3.7	**37.7N**±.18	**141.2E**±.42	**100**±38			**9**	**0-2**	
JMA	XI	17 22 02 10.5±.1	37.69N±.01	141.15E±.01	94±1			**¶97xi2866**		
ISC	**XI**	**18 00 43 09**±4.6	**38.7N**±.13	**142.2E**±.40	**26**±18			**10**	**1-1**	
JMA	XI	18 00 43 09.7±.2	38.68N±.01	142.15E±.02	31±2	3.0		**¶97xi2884**		
ISC	**XI**	**18 01 06 54**±5.4	**35.5N**±.18	**140.1E**±.25	**89**±56			**7**	**0-1**	
JMA	XI	18 01 06 54.9±.2	35.61N±.01	140.08E±.01	69±2	2.3		**¶97xi2888**		
ISC	**XI**	**18 03 13 09**±2.7	**36.0N**±.25	**140.1E**±.23	**62**			**5**	**1-1**	
JMA	XI	18 03 13 09.3±.1	36.04N±.01	140.09E±.01	62±1	2.1		**¶97xi2904**		
ISC	**XI**	**18 06 20 17**±4.1	**34.6N**±.47	**140.3E**±.34	**57**			**8**	**0-1**	
JMA	XI	18 06 20 16.3±.2	34.58N±.01	140.22E±.01	57±3	3.2		**¶97xi2919**		
ISC	**XI**	**18 12 49 55.5**±.62	**40.95N**±.047	**142.0E**±.11	**65**±6.8	**3.7b**		**27**	**1-75**	
JMA	XI	18 12 49 55.8±.1	40.95N±.00	141.99E±.01	56±3	3.8		**¶97xi2961**		
NEIC	XI	18 12 49 58.8	40.92N	142.01E	100	4.7b				
EIDC	XI	18 12 50 11.7	40.9N	142.0E	201	3.3b				
NEIC	Felt I=III MM, Less reliable solution.									
NEIC	Felt I=II J1 in southern Aomori Prefecture.									
ISC	**XI**	**18 13 38 15**±5.4	**37.8N**±.29	**141.6E**±.87	**79**			**6**	**1-2**	
JMA	XI	18 13 38 15.1±.1	37.86N±.01	141.56E±.02	79±2	2.3		**¶97xi2973**		
ISC	**XI**	**18 14 14 36**±3.4	**36.63N**±.097	**141.6E**±.32	**17**±17			**10**	**1-3**	
JMA	XI	18 14 14 37.2±.2	36.60N±.01	141.55E±.02	50	3.5		**¶97xi2984**		
ISC	**XI**	**18 15 08 26**±1.8	**40.5N**±.16	**141.7E**±.28	**100**			**12**	**1-2**	
JMA	XI	18 15 08 25.4±.1	40.51N±.01	141.73E±.02	100±2			**¶97xi2994**		
ISC	**XI**	**18 18 27 38**±1.4	**40.4N**±.14	**141.6E**±.26	**107**			**11**	**0-1**	
JMA	XI	18 18 27 37.8±.2	40.39N±.01	141.60E±.02	107±2			**¶97xi3036**		
ISC	**XI**	**18 19 50 12**±3.0	**36.3N**±.11	**141.6E**±.31	**51**			**11**	**1-2**	
JMA	XI	18 19 50 12.3±.3	36.29N±.01	141.48E±.03	51±4	2.8		**¶97xi3051**		
ISC	**XI**	**19 00 42 23**±7.9	**37.1N**±.21	**141.9E**±.57	**19**±32			**8**	**1-2**	
JMA	XI	19 00 42 25.1±.2	37.18N±.01	141.79E±.02	29±3	2.8		**¶97xi3094**		
ISC	**XI**	**19 00 43 29**±2.3	**36.64N**±.084	**141.6E**±.20	**19**±14			**13**	**1-3**	
JMA	XI	19 00 43 29.0±.2	36.61N±.01	141.58E±.02	44	3.5		**¶97xi3095**		
ISC	**XI**	**19 01 12 24**±2.5	**40.81N**±.089	**141.0E**±.24	**102**±30			**9**	**0-2**	
JMA	XI	19 01 12 23.7±.1	40.81N±.00	141.04E±.01	99±2			**¶97xi3098**		
ISC	**XI**	**19 03 08 57**±6.4	**39.0N**±.14	**142.6E**±.54	**24**±22			**9**	**1-4**	
JMA	XI	19 03 08 57.2±.2	38.94N±.01	142.52E±.02	27±3	4.0		**¶97xi3122**		
ISC	**XI**	**19 06 15 17**±1.2	**38.9N**±.14	**141.4E**±.41	**83**			**6**	**0-1**	
JMA	XI	19 06 15 17.1±.1	38.88N±.01	141.43E±.02	83±1	1.5		**¶97xi3147**		
ISC	**XI**	**19 08 54 07**±2.6	**36.47N**±.086	**141.2E**±.21	**31**±17			**10**	**1-2**	
JMA	XI	19 08 54 07.2±.1	36.46N±.01	141.07E±.01	43±3	2.9		**¶97xi3176**		
ISC	**XI**	**19 16 31 26**±5.2	**35.6N**±.17	**140.1E**±.24	**86**±53			**7**	**0-1**	
JMA	XI	19 16 31 27.8±.2	35.58N±.01	140.08E±.01	66±2	1.9		**¶97xi3256**		
ISC	**XI**	**19 17 07 12.8**±.71	**34.24N**±.039	**140.89E**±.077	**59**±5.1	**4.6b,4.0s**		**98**	**0-148**	
JMA	XI	19 17 07 10.7±.2	34.33N±.01	141.14E±.02	61±3	4.4		**¶97xi3267**		
MOS	XI	19 17 07 12.8	34.2N	140.7E	55	5.2b				
NEIC	XI	19 17 07 15.0	34.18N	140.41E	70	4.7b				
BJI	XI	19 17 07 15.2	34.29N	140.75E	84	4.7b,4.2s				
EIDC	XI	19 17 07 16.6	34.2N	140.5E	71	4.1b,4.0s				
JMA	**XI**	**19 18 35 45.6**±.1	**36.03N**±.01	**140.11E**±.01	**63**±1	**1.7**		**¶97xi3290**		
ISC	**XI**	**19 18 44 24**±3.2	**37.3N**±.15	**141.2E**±.39	**85**±40			**10**	**0-2**	
JMA	XI	19 18 44 24.4±.1	37.36N±.01	141.20E±.01	80±1	2.6		**¶97xi3291**		
ISC	**XI**	**19 21 10 17**±1.7	**34.8N**±.31	**140.1E**±.13	**60**			**8**	**0-1**	
JMA	XI	19 21 10 16.7±.2	34.83N±.01	140.08E±.01	60±2	2.4		**¶97xi3316**		
ISC	**XI**	**19 23 07 45**±2.7	**34.9N**±.12	**140.6E**±.19	**73**±25			**11**	**0-3**	
JMA	XI	19 23 07 45.3±.1	34.94N±.01	140.56E±.01	73±1	3.2		**¶97xi3329**		
JMA	**XI**	**20 01 42 17.4**±.2	**38.86N**±.01	**141.42E**±.02	**87**±2	**1.7**		**¶97xi3361**		
ISC	**XI**	**20 01 56 21.8**±.47	**40.97N**±.030	**142.54E**±.045	**52**±4.2	**4.8b,4.3s**		**197**	**1-155**	
JMA	XI	20 01 56 20.6±.2	40.96N±.00	142.65E±.01	31±4	5.0		**¶97xi3367**		
BJI	XI	20 01 56 21.3	40.99N	142.66E	64	4.7b,4.3s				
MOS	XI	20 01 56 21.7	41.1N	142.5E	49	5.2b,4.0s				
HRVD	XI	20 01 56 21.7±.2	40.50N±.02	143.22E±.03	90±1.2					
NEIC	XI	20 01 56 22.3	41.00N	142.52E	56	4.9b				
EIDC	XI	20 01 56 24.1	41.0N	142.5E	58	4.4b,4.3s				
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s9,c11; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.83±.64; $M_{r\theta}$3.37±1.20; $M_{r\phi}$−2.54±1.37; $M_{\theta\theta}$4.51±.70; $M_{\theta\phi}$1.49±.90; $M_{\phi\phi}$−3.41±1.13. Principal Axes: T 6.76,Plg27°,Azm16°; N −0.35, Plg43°,Azm257°; P −6.41,Plg35°,Azm127°. Best double couple: $M_0$6.6×10^{16}Nm, NP1: ϕ_S158°,δ43°,λ−7°. NP2:ϕ_S253°,δ85°,λ−133°.									
NEIC	Mw5.2(HRV). Felt I=III MM.									
NEIC	Felt I=II J1 in the Urakawa area. Also felt II J1 in eastern Aomori and northern Iwate Prefectures, Honshu.									
JMA	**XI**	**20 03 36 11.3**±.1	**36.31N**±.01	**140.05E**±.01	**71**±1	**1.7**		**¶97xi3381**		
ISC	**XI**	**20 03 41 40**±2.8	**34.23N**±.096	**140.1E**±.12	**83**±33			**13**	**0-2**	
JMA	XI	20 03 41 39.6±.2	34.22N±.01	140.08E±.01	91±2			**¶97xi3384**		
ISC	**XI**	**20 09 07 56**±2.6	**38.83N**±.098	**142.1E**±.27	**46**±34			**12**	**0-1**	
JMA	XI	20 09 07 56.0±.1	38.85N±.00	142.02E±.01	47±1	2.8		**¶97xi3427**		
ISC	**XI**	**20 14 10 33.4**±.86	**40.95N**±.054	**142.7E**±.13	**28**			**17**	**1-2**	
JMA	XI	20 14 10 32.6±.2	40.95N±.01	142.66E±.02	28±5	3.4		**¶97xi3475**		
ISC	**XI**	**20 22 08 53.1**±.99	**40.76N**±.057	**142.2E**±.13	**32**			**12**	**1-2**	
JMA	XI	20 22 08 52.3±.1	40.78N±.01	142.19E±.02	32±3	3.1		**¶97xi3541**		
ISC	**XI**	**20 23 08 52**±3.0	**37.5N**±.16	**141.5E**±.45	**76**±49			**7**	**0-2**	
JMA	XI	20 23 08 52.5±.1	37.53N±.01	141.43E±.02	72±2	2.5		**¶97xi3547**		
ISC	**XI**	**21 04 38 29**±3.2	**36.63N**±.098	**141.6E**±.36	**41**			**7**	**1-2**	
JMA	XI	21 04 38 28.7±.3	36.61N±.01	141.57E±.02	41±5	2.9		**¶97xi3585**		
ISC	**XI**	**21 05 14 42**±2.4	**36.2N**±.35	**140.1E**±.31	**65**			**4**	**1-1**	
JMA	XI	21 05 14 41.8±.1	36.16N±.00	140.09E±.01	65±1	1.9		**¶97xi3593**		
ISC	Poorly determined									
ISC	**XI**	**21 06 12 47**±2.7	**36.50N**±.084	**141.9E**±.25	**77**±44			**14**	**1-3**	
JMA	XI	21 06 12 45.9±.3	36.49N±.01	142.05E±.03	73	3.2		**¶97xi3601**		
ISC	**XI**	**21 06 40 04**±2.0	**37.68N**±.080	**141.3E**±.19	**74**±23			**15**	**0-2**	
JMA	XI	21 06 40 04.4±.1	37.67N±.00	141.29E±.01	70±1	3.6		**¶97xi3609**		

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
ISC	**XI**	**21 11 48 38**±4.3		**37.0N**±.19	**141.9E**±.39	**36**		**10**	**1-2**
JMA	XI	21 11 48 37.3±.2		36.96N±.01	141.88E±.01	36±3	2.8	**¶97xi3647**	
ISC	**XI**	**21 12 17 23**±1.7		**34.58N**±.078	**140.2E**±.11	**51**±33		**13**	**0-3**
JMA	XI	21 12 17 22.5±.1		34.61N±.01	140.21E±.01	61±2	2.9	**¶97xi3649**	
ISC	**XI**	**21 13 19 50**±3.5		**36.0N**±.14	**140.2E**±.21	**67**±47		**9**	**1-2**
JMA	XI	21 13 19 50.2±.1		36.02N±.00	140.11E±.01	62±1	2.2	**¶97xi3660**	
ISC	**XI**	**21 15 10 50**±1.1		**36.41N**±.065	**141.3E**±.13	**45**	**3.7b**	**18**	**1-56**
JMA	XI	21 15 10 51.6±.1		36.44N±.01	141.09E±.02	45±3	3.8	**¶97xi3673**	
EIDC	XI	21 15 10 52.8		35.6N	140.7E	0	3.6L,3.6b		
JMA	Nodal plane solution: N74, Score 86%. NP1:ϕ_S203°,δ18°,λ−27°. NP2:ϕ_S321°,δ81°,λ−106°. Principle axes: T Plg34°,Azm64°; N Plg16°,Azm323°; P Plg51°,Azm212°.								
ISC	**XI**	**21 19 40 52**±5.6		**36.5N**±.23	**140.4E**±.25	**107**±50		**10**	**0-1**
JMA	XI	21 19 40 53.1±.1		36.47N±.01	140.44E±.01	96±1		**¶97xi3724**	
ISC	**XI**	**22 04 30 22**±2.3		**35.88N**±.090	**140.9E**±.31	**26**±13		**6**	**0-2**
JMA	XI	22 04 30 22.4±.2		35.86N±.01	140.91E±.02	26±2	3.0	**¶97xi3806**	
JMA	**XI**	**22 05 14 32.7**±.1		**36.16N**±.01	**140.04E**±.01	**66**±1	**1.8**	**¶97xi3810**	
ISC	**XI**	**22 05 20 09**±1.2		**35.3N**±.16	**140.2E**±.23	**61**		**6**	**0-1**
JMA	XI	22 05 20 09.0±.2		35.29N±.01	140.20E±.02	61±3	2.3	**¶97xi3811**	
ISC	**XI**	**22 11 41 33**±2.4		**36.65N**±.084	**141.6E**±.20	**20**±15		**13**	**1-3**
JMA	XI	22 11 41 33.4±.2		36.63N±.01	141.54E±.02	45±5	3.3	**¶97xi3865**	
ISC	**XI**	**22 14 44 05**±1.7		**35.6N**±.17	**140.0E**±.24	**64**		**4**	**0-1**
JMA	XI	22 14 44 04.8±.2		35.64N±.01	140.11E±.01	64±2	2.0	**¶97xi3895**	
ISC	Poorly determined								
ISC	**XI**	**23 10 39 29**±3.0		**37.3N**±.15	**141.8E**±.30	**36**		**11**	**1-2**
JMA	XI	23 10 39 29.0±.2		37.34N±.01	141.78E±.02	36±4	3.2	**¶97xi4096**	
ISC	**XI**	**23 22 21 01**±3.1		**36.1N**±.40	**140.1E**±.33	**62**		**5**	**1-1**
JMA	XI	23 22 21 01.0±.1		36.04N±.00	140.11E±.01	62±1	1.8	**¶97xi4210**	
ISC	Poorly determined								
ISC	**XI**	**24 08 43 50**±1.9		**35.4N**±.10	**140.5E**±.14	**61**±23		**11**	**0-2**
JMA	XI	24 08 43 50.2±.1		35.43N±.01	140.45E±.01	58±1	3.1	**¶97xi4285**	
ISC	**XI**	**24 16 58 10**±2.0		**37.83N**±.082	**141.6E**±.21	**89**±25		**18**	**1-2**
JMA	XI	24 16 58 10.3±.1		37.84N±.00	141.58E±.01	85±2	2.8	**¶97xi4353**	
ISC	**XI**	**24 17 39 53**±2.9		**39.3N**±.22	**142.0E**±.48	**81**		**8**	**0-2**
JMA	XI	24 17 39 52.1±.2		39.27N±.01	142.09E±.02	81±2	2.0	**¶97xi4355**	
ISC	**XI**	**24 19 47 24**±3.5		**37.6N**±.16	**141.6E**±.50	**73**		**8**	**1-2**
JMA	XI	24 19 47 24.8±.2		37.63N±.01	141.49E±.02	73±2	2.4	**¶97xi4376**	
ISC	**XI**	**24 23 19 33**±7.5		**35.6N**±.25	**140.1E**±.74	**63**		**6**	**1-1**
JMA	XI	24 23 19 33.2±.1		35.66N±.01	140.01E±.01	63±2	2.1	**¶97xi4406**	
ISC	**XI**	**24 23 45 01**±4.0		**36.2N**±.12	**141.5E**±.44	**34**		**6**	**1-2**
JMA	XI	24 23 44 58.2±.5		36.24N±.02	141.78E±.04	34	2.9	**¶97xi4411**	
ISC	**XI**	**24 23 50 07**±6.6		**36.2N**±.68	**140.4E**±.58	**66**		**4**	**0-1**
JMA	XI	24 23 50 07.3±.1		36.20N±.00	140.38E±.01	66±1	1.7	**¶97xi4412**	
ISC	Poorly determined								
ISC	**XI**	**25 06 36 46**±1.1		**40.38N**±.072	**142.1E**±.17	**66**±9.2	**3.6b**	**20**	**0-71**
JMA	XI	25 06 36 45.2±.1		40.40N±.00	142.24E±.02	43±2	4.0	**¶97xi4460**	
EIDC	XI	25 06 36 50.7		40.2N	141.9E	97	3.5b		
NEIC	XI	25 06 36 52.4		40.18N	141.59E	130			
NEIC	Poor solution.								
JMA	**XI**	**25 08 42 46.5**±.2		**35.05N**±.02	**140.12E**±.01	**66**±2	**2.0**	**¶97xi4473**	
ISC	**XI**	**25 15 02 03**±2.7		**38.8N**±.12	**141.2E**±.39	**81**±32		**11**	**0-1**
JMA	XI	25 15 02 03.4±.0		38.78N±.00	141.22E±.01	79±1	2.3	**¶97xi4537**	
ISC	**XI**	**25 16 44 35**±4.5		**38.6N**±.15	**142.4E**±.46	**36**		**10**	**1-2**
JMA	XI	25 16 44 35.2±.2		38.67N±.01	142.38E±.02	36±3	3.0	**¶97xi4550**	
ISC	**XI**	**25 19 56 44**±2.6		**35.9N**±.10	**140.9E**±.34	**27**±15		**5**	**0-2**
JMA	XI	25 19 56 44.7±.2		35.86N±.01	140.89E±.02	27±2	3.0	**¶97xi4566**	
ISC	Poorly determined								
ISC	**XI**	**25 20 02 45**±3.8		**36.1N**±.14	**141.5E**±.39	**39**		**7**	**1-3**
JMA	XI	25 20 02 45.9±.2		36.15N±.01	141.31E±.02	39±3	3.0	**¶97xi4567**	
ISC	**XI**	**26 04 55 37**±6.9		**40.5N**±.14	**142.6E**±.64	**24**±26		**8**	**1-2**
JMA	XI	26 04 55 38.7±.2		40.47N±.00	142.43E±.02	30±2	3.1	**¶97xi4638**	
ISC	**XI**	**26 12 03 46**±3.1		**40.22N**±.093	**142.1E**±.33	**64**±30		**11**	**0-1**
JMA	XI	26 12 03 46.8±.1		40.21N±.00	142.06E±.01	60±1	3.3	**¶97xi4680**	
ISC	**XI**	**26 13 24 16**±1.1		**38.7N**±.11	**141.5E**±.23	**106**		**12**	**0-1**
JMA	XI	26 13 24 16.2±.1		38.70N±.01	141.47E±.01	106±1		**¶97xi4689**	
ISC	**XI**	**26 13 58 28**±3.6		**37.6N**±.13	**141.6E**±.35	**80**±48		**9**	**1-1**
JMA	XI	26 13 58 29.3±.2		37.62N±.01	141.55E±.02	73±3	2.8	**¶97xi4696**	
ISC	**XI**	**26 21 07 01**±5.3		**36.8N**±.18	**140.4E**±.23	**81**±53		**7**	**0-1**
JMA	XI	26 21 07 00.9±.1		36.76N±.00	140.42E±.01	77±1	2.5	**¶97xi4743**	
JMA	**XI**	**26 21 36 08.4**±.4		**34.62N**±.05	**140.06E**±.03	**93**±4		**¶97xi4744**	
ISC	**XI**	**27 06 23 01**±2.5		**40.4N**±.18	**141.5E**±.50	**78**		**6**	**0-1**
JMA	XI	27 06 23 00.3±.1		40.45N±.00	141.59E±.01	78±1	2.4	**¶97xi4811**	
ISC	**XI**	**27 08 07 19**±1.7		**36.18N**±.088	**141.0E**±.19	**45**		**8**	**0-2**
JMA	XI	27 08 07 18.9±.1		36.19N±.01	140.93E±.01	45±2	3.0	**¶97xi4830**	
JMA	**XI**	**27 11 01 31.4**±.2		**39.96N**±.01	**142.24E**±.01	**75**±2	**1.8**	**¶97xi4844**	
ISC	**XI**	**27 18 32 39**±7.7		**36.7N**±.29	**141.0E**±.73	**105**±50		**8**	**0-2**
JMA	XI	27 18 32 41.0±.1		36.73N±.01	140.84E±.01	85±1	2.1	**¶97xi4917**	
JMA	**XI**	**28 00 37 29.9**±.3		**35.26N**±.03	**140.07E**±.02	**77**±3	**2.2**	**¶97xi4972**	
JMA	**XI**	**28 00 42 22.8**±.1		**36.14N**±.01	**140.01E**±.00	**68**±1	**1.9**	**¶97xi4974**	
ISC	**XI**	**28 02 44 11**±2.1		**40.37N**±.090	**142.0E**±.27	**43**		**10**	**0-1**
JMA	XI	28 02 44 11.4±.1		40.35N±.00	141.97E±.01	43±1	3.6	**¶97xi4997**	
ISC	**XI**	**28 03 51 31**±2.2		**36.39N**±.082	**141.1E**±.19	**51**±38		**11**	**0-2**
JMA	XI	28 03 51 31.0±.1		36.37N±.01	141.03E±.01	44±3	2.9	**¶97xi5004**	
ISC	**XI**	**28 04 48 12**±4.3		**35.8N**±.15	**140.1E**±.19	**95**±49		**10**	**0-1**
JMA	XI	28 04 48 13.2±.1		35.77N±.01	140.10E±.01	74±2	2.6	**¶97xi5011**	
ISC	**XI**	**28 08 47 11**±3.9		**36.8N**±.19	**141.9E**±.30	**20**		**9**	**1-2**
JMA	XI	28 08 47 08.6±.3		36.71N±.01	142.04E±.02	20±4	2.8	**¶97xi5042**	
ISC	**XI**	**28 11 24 46**±4.6		**37.4N**±.16	**141.3E**±.65	**67**		**6**	**0-1**
JMA	XI	28 11 24 47.1±.1		37.42N±.01	141.20E±.01	67±2	2.1	**¶97xi5072**	
ISC	**XI**	**28 14 11 58**±4.3		**35.94N**±.094	**141.3E**±.41	**20**±24		**6**	**0-3**
JMA	XI	28 14 11 58.7±.2		35.94N±.01	141.22E±.02	20±3	3.2	**¶97xi5098**	
ISC	**XI**	**28 19 07 20**±2.7		**35.9N**±.29	**140.1E**±.27	**99**		**5**	**1-1**
JMA	XI	28 19 07 19.6±.1		35.91N±.01	140.10E±.01	99±1		**¶97xi5128**	
ISC	**XI**	**28 19 44 01**±4.8		**38.7N**±.16	**141.5E**±.42	**80**±45		**8**	**0-1**
JMA	XI	28 19 44 01.8±.1		38.67N±.00	141.42E±.01	68±2	1.7	**¶97xi5133**	
ISC	**XI**	**28 19 52 21**±2.8		**37.7N**±.10	**141.4E**±.33	**72**±36		**10**	**1-1**
JMA	XI	28 19 52 21.0±.1		37.68N±.00	141.38E±.01	68±2	2.4	**¶97xi5134**	
ISC	**XI**	**29 01 22 52**±1.3		**40.4N**±.10	**141.5E**±.31	**78**		**8**	**0-1**
JMA	XI	29 01 22 51.5±.1		40.36N±.00	141.58E±.01	78±1	2.1	**¶97xi5169**	
ISC	**XI**	**29 10 12 06**±1.5		**40.30N**±.070	**142.7E**±.19	**40**		**13**	**1-2**
JMA	XI	29 10 12 05.3±.1		40.31N±.00	142.65E±.01	40±2	3.6	**¶97xi5246**	
ISC	**XI**	**29 11 24 22**±2.4		**34.9N**±.19	**140.0E**±.13	**64**±26		**12**	**0-2**
JMA	XI	29 11 24 22.0±.2		34.91N±.01	140.04E±.01	62±2	2.5	**¶97xi5253**	
JMA	**XI**	**29 22 17 33.6**±.3		**36.16N**±.02	**140.11E**±.02	**64**±3	**1.5**	**¶97xi5332**	
JMA	**XI**	**29 22 18 10.6**±.1		**36.21N**±.01	**140.10E**±.00	**65**±1	**1.0**	**¶97xi5333**	
ISC	**XI**	**30 03 56 53**±4.3		**35.8N**±.13	**140.0E**±.18	**123**±53		**8**	**1-1**
JMA	XI	30 03 56 54.3±.2		35.83N±.01	140.02E±.01	106±2		**¶97xi5359**	
ISC	**XI**	**30 18 29 04**±3.4		**37.2N**±.15	**141.6E**±.34	**41**		**8**	**1-2**
JMA	XI	30 18 29 04.2±.2		37.22N±.01	141.62E±.02	41±3	3.0	**¶97xi5446**	
JMA	**XI**	**30 23 02 45.3**±.2		**39.70N**±.01	**142.65E**±.02	**33**±2	**2.9**	**¶97xi5476**	
ISC	**XII**	**01 11 35 55**±7.1		**39.2N**±.14	**142.6E**±.62	**24**±17		**9**	**1-2**
JMA	XII	01 11 35 57.6±.2		39.20N±.01	142.44E±.02	31±2	3.4	**¶97xii0075**	
ISC	**XII**	**01 11 36 39**±6.9		**39.2N**±.17	**142.4E**±.83	**37**		**8**	**1-1**
JMA	XII	01 11 36 38.8±.2		39.21N±.01	142.40E±.02	37±3	3.4	**¶97xii0076**	
ISC	Poorly determined								
ISC	**XII**	**01 11 45 14**±4.2		**39.7N**±.10	**142.2E**±.44	**39**±34		**10**	**0-1**
JMA	XII	01 11 45 14.7±.1		39.76N±.00	142.16E±.02	39±1	2.8	**¶97xii0078**	
ISC	**XII**	**01 15 54 14**±3.7		**37.1N**±.18	**141.4E**±.43	**45**		**8**	**0-2**
JMA	XII	01 15 54 13.8±.1		37.14N±.01	141.39E±.02	45±3	2.9	**¶97xii0107**	
JMA	**XII**	**02 02 33 50.8**±.3		**35.60N**±.01	**140.16E**±.02	**62**±3	**2.2**	**¶97xii0173**	
ISC	**XII**	**02 02 54 16**±1.6		**40.74N**±.058	**142.1E**±.13	**25**±15		**14**	**1-2**
JMA	XII	02 02 54 16.0±.1		40.74N±.00	142.13E±.01	49±2	3.2	**¶97xii0176**	
JMA	**XII**	**02 03 42 41.7**±.2		**35.61N**±.01	**140.14E**±.01	**60**±2	**1.9**	**¶97xii0179**	
ISC	**XII**	**02 03 53 31**±3.9		**37.2N**±.19	**142.0E**±.36	**29**		**10**	**1-2**
JMA	XII	02 03 53 31.9±.3		37.25N±.01	141.91E±.02	29±4	2.8	**¶97xii0180**	
ISC	**XII**	**02 06 36 37**±3.9		**35.9N**±.15	**140.2E**±.24	**77**±45		**10**	**1-2**
JMA	XII	02 06 36 38.3±.1		35.96N±.01	140.09E±.01	65±2	2.4	**¶97xii0195**	
ISC	**XII**	**02 06 54 37**±5.8		**36.3N**±.29	**141.3E**±.49	**46**		**10**	**1-2**
JMA	XII	02 06 54 39.7±.1		36.38N±.01	141.02E±.02	46±2	3.2	**¶97xii0199**	
ISC	**XII**	**02 07 46 07**±4.0		**37.1N**±.18	**141.9E**±.34	**24**		**10**	**1-2**
JMA	XII	02 07 46 08.3±.3		37.13N±.01	141.76E±.02	24±3	2.8	**¶97xii0209**	
ISC	**XII**	**02 08 52 19**±2.6		**36.0N**±.15	**140.1E**±.18	**65**±43		**9**	**1-2**
JMA	XII	02 08 52 19.7±.1		36.02N±.00	140.09E±.01	63±1	2.3	**¶97xii0219**	
ISC	**XII**	**02 17 20 33**±1.8		**36.37N**±.087	**141.2E**±.19	**29**±14		**12**	**1-2**
JMA	XII	02 17 20 33.3±.2		36.37N±.01	141.06E±.02	42±3	3.0	**¶97xii0287**	
ISC	**XII**	**02 21 05 42**±3.2		**40.4N**±.10	**142.2E**±.31	**56**±40		**12**	**1-2**
JMA	XII	02 21 05 43.2±.1		40.37N±.00	142.07E±.01	53±1	4.0	**¶97xii0309**	
ISC	**XII**	**03 02 32 22**±3.7		**40.5N**±.12	**142.4E**±.41	**26**		**7**	**1-1**
JMA	XII	03 02 32 21.0±.3		40.45N±.01	142.41E±.02	26±3	2.9	**¶97xii0351**	
ISC	**XII**	**03 07 02 13**±1.5		**40.47N**±.074	**142.0E**±.22	**58**		**11**	**1-2**
JMA	XII	03 07 02 13.0±.1		40.46N±.00	141.95E±.01	58±1	3.1	**¶97xii0375**	
ISC	**XII**	**03 12 57 49**±2.1		**36.1N**±.23	**140.1E**±.22	**67**		**5**	**1-1**
JMA	XII	03 12 57 49.0±.1		36.14N±.01	140.04E±.01	67±1	1.8	**¶97xii0423**	
ISC	**XII**	**03 14 25 15**±4.9		**37.0N**±.19	**141.9E**±.46	**39**		**8**	**1-2**
JMA	XII	03 14 25 14.3±.3		36.99N±.01	141.82E±.03	39	2.9	**¶97xii0442**	
ISC	**XII**	**03 16 34 46**±1.0		**35.58N**±.089	**140.0E**±.13	**68**		**9**	**0-2**
JMA	XII	03 16 34 46.1±.1		35.61N±.01	140.05E±.01	68±2	2.6	**¶97xii0461**	
ISC	**XII**	**03 20 53 26**±10		**38.4N**±.30	**142.2E**±.94	**84**±60		**9**	**1-2**
JMA	XII	03 20 53 28.1±.2		38.49N±.01	141.97E±.03	79±2	2.4	**¶97xii0502**	
ISC	**XII**	**03 21 44 47**±4.7		**37.0N**±.23	**141.9E**±.58	**62**±62		**8**	**1-2**
JMA	XII	03 21 44 47.1±.2		37.03N±.01	141.79E±.02	64±4	2.4	**¶97xii0508**	
ISC	**XII**	**03 22 48 51**±2.6		**37.7N**±.11	**141.6E**±.37	**88**±42		**10**	**1-2**
JMA	XII	03 22 48 52.1±.1		37.74N±.01	141.51E±.02	85±2	2.5	**¶97xii0516**	
JMA	**XII**	**04 06 40 42.3**±.3		**36.42N**±.01	**141.44E**±.02	**32**±5	**2.8**	**¶97xii0567**	
JMA	**XII**	**04 12 35 32.8**±.3		**36.31N**±.01	**141.68E**±.03	**64**	**2.2**	**¶97xii0613**	
ISC	**XII**	**04 14 31 31**±1.5		**36.22N**±.068	**141.0E**±.18	**31**±12		**10**	**1-2**
JMA	XII	04 14 31 31.1±.1		36.21N±.01	140.95E±.01	40±2	3.0	**¶97xii0627**	
ISC	**XII**	**04 22 05 44**±2.1		**34.7N**±.11	**140.3E**±.14	**53**±28		**12**	**0-3**
JMA	XII	04 22 05 43.3±.1		34.78N±.01	140.33E±.01	60±2	2.6	**¶97xii0700**	
JMA	**XII**	**05 00 22 20.2**±.2		**38.76N**±.01	**141.11E**±.03	**120**±2		**¶97xii0732**	
ISC	**XII**	**05 03 06 14**±3.9		**38.84N**±.089	**141.4E**±.30	**112**±41		**12**	**0-2**
JMA	XII	05 03 06 15.3±.1		38.84N±.01	141.44E±.02	103±2		**¶97xii0768**	
JMA	**XII**	**05 03 47 24.2**±.3		**35.63N**±.02	**140.07E**±.02	**63**±3	**1.3**	**¶97xii0771**	
ISC	**XII**	**05 09 52 43**±3.8		**37.0N**±.19	**141.0E**±.40	**87**±28		**10**	**0-1**
JMA	XII	05 09 52 42.8±.2		36.97N±.01	141.09E±.02	82±2	2.5	**¶97xii0825**	
ISC	**XII**	**05 13 41 38**±1.4		**37.8N**±.18	**141.0E**±.41	**98**		**7**	**0-1**
JMA	XII	05 13 41 38.1±.1		37.79N±.01	141.03E±.01	98±1		**¶97xii0890**	
ISC	**XII**	**05 19 16 57**±2.5		**36.1N**±.17	**140.1E**±.17	**63**±32		**10**	**1-2**
JMA	XII	05 19 16 57.5±.1		36.13N±.01	140.10E±.01	64±1	2.3	**¶97xii1042**	
ISC	**XII**	**05 19 53 55**±3.3		**35.7N**±.10	**140.1E**±.22	**83**±34		**12**	**0-2**
JMA	XII	05 19 53 55.5±.2		35.77N±.01	140.13E±.01	73±2	3.1	**¶97xii1061**	
ISC	**XII**	**05 21 32 02**±1.8		**36.37N**±.082	**141.2E**±.19	**28**±14		**10**	**1-2**
JMA	XII	05 21 32 01.8±.1		36.36N±.01	141.06E±.02	43±3	3.1	**¶97xii1105**	
ISC	**XII**	**06 02 49 53**±1.2		**35.6N**±.12	**140.2E**±.18	**62**		**5**	**1-1**
JMA	XII	06 02 49 53.5±.1		35.58N±.01	140.18E±.01	62±1	1.7	**¶97xii1215**	
ISC	**XII**	**06 05 29 07**±3.0		**40.2N**±.10	**142.2E**±.35	**42**±40		**8**	**0-1**
JMA	XII	06 05 29 06.2±.1		40.19N±.00	142.19E±.02	44±2	3.0	**¶97xii1260**	
ISC	**XII**	**06 05 34 28**±1.6		**35.6N**±.12	**140.2E**±.21	**70**		**7**	**1-1**
JMA	XII	06 05 34 28.0±.1		35.60N±.01	140.19E±.01	70±1	2.5	**¶97xii1261**	
ISC	**XII**	**06 06 40 47.5**±.46		**35.64N**±.053	**140.03E**±.068	**50**±5.2	**4.4b**,4.9s	**58**	**0-148**
MOS	XII	06 06 40 41.3		35.4N	140.0E	12	5.1b	**¶97xii1277**	
NEIC	XII	06 06 40 44.2		35.38N	140.00E	33	4.7b		
BJI	XII	06 06 40 44.9		35.05N	140.81E	57	4.7b,4.9s		
JMA	XII	06 06 40 46.3±.1		35.70N±.01	140.12E±.01	56±2	4.6		
EIDC	XII	06 06 40 49.9±1.59		35.5N	139.9E	65±18.5	4.2b		
NEIC	Felt I=V MM, Less reliable solution.								
NEIC	Felt I=III J1 in parts of Chiba, Kanagawa, Saitama and Tokyo Prefectures. Also felt in southern Ibaraki Prefecture.								
JMA	Nodal plane solution: N130, Score 94%. NP1:ϕ_S98°,δ78°,λ11°. NP2:ϕ_S6°,δ79°,λ169°. Principle axes: T Plg16°,Azm322°; N Plg74°,Azm145°; P Plg1°,Azm52°.								
EIDC	Error ellipse is semi−major=27.2km semi−minor=6.4km azimuth=66Multiple, mixed az								
ISC	**XII**	**06 07 07 01**±1.3		**35.69N**±.098	**140.1E**±.13	**51**±23		**10**	**0-2**
JMA	XII	06 07 07 00.8±.1		35.73N±.01	140.11E±.01	50±2	3.3	**¶97xii1285**	
ISC	**XII**	**06 09 46 48**±4.4		**38.4N**±.23	**141.3E**±.41	**72**±44		**7**	**0-1**
JMA	XII	06 09 46 48.1±.1		38.41N±.01	141.26E±.01	73±2	1.6	**¶97xii1340**	
ISC	Poorly determined								
JMA	**XII**	**06 10 17 24.8**±.3		**40.04N**±.01	**142.08E**±.03	**68**±2	**1.5**	**¶97xii1354**	
ISC	**XII**	**06 10 21 39**±1.5		**35.7N**±.10	**140.1E**±.14	**59**±21		**10**	**0-2**
JMA	XII	06 10 21 39.0±.1		35.73N±.01	140.12E±.01	54±2	3.4	**¶97xii1356**	
ISC	**XII**	**06 11 40 23**±3.5		**36.8N**±.19	**140.9E**±.33	**94**±27		**11**	**0-2**
JMA	XII	06 11 40 23.0±.1		36.78N±.01	140.91E±.02	88±2	2.4	**¶97xii1385**	
JMA	**XII**	**06 14 47 01.5**±.1		**36.75N**±.01	**140.41E**±.01	**72**±1	**1.6**	**¶97xii1448**	
ISC	**XII**	**06 15 26 09**±3.3		**36.3N**±.18	**140.7E**±.26	**59**±30		**11**	**0-2**
JMA	XII	06 15 26 10.4±.1		36.41N±.00	140.57E±.01	52±2	2.9	**¶97xii1458**	
ISC	**XII**	**06 17 36 12**±3.9		**40.9N**±.22	**142.0E**±.75	**92**		**7**	**1-1**
JMA	XII	06 17 36 13.2±.2		40.78N±.01	141.79E±.03	92±3		**¶97xii1479**	
ISC	**XII**	**06 20 36 44**±6.6		**36.3N**±.49	**140.4E**±.62	**79**±53		**5**	**0-2**
JMA	XII	06 20 36 42.5±.2		36.18N±.01	140.54E±.02	86±2	1.7	**¶97xii1520**	
ISC	Poorly determined								
ISC	**XII**	**06 21 23 57**±2.0		**38.87N**±.067	**141.4E**±.18	**82**±22		**14**	**0-2**
JMA	XII	06 21 23 57.2±.0		38.87N±.00	141.40E±.01	82±1	2.7	**¶97xii1536**	
ISC	**XII**	**06 22 28 40**±4.4		**39.2N**±.11	**142.4E**±.47	**96**±32		**11**	**1-2**
JMA	XII	06 22 28 41.4±.2		39.20N±.01	142.31E±.02	82±2	2.7	**¶97xii1547**	
ISC	**XII**	**06 23 02 47.7**±.47		**35.59N**±.056	**140.02E**±.079	**58**±4.8	**4.0b**	**36**	**0-92**
NEIC	XII	06 23 02 44.5		35.50N	140.07E	33	4.5b	**¶97xii1550**	
BJI	XII	06 23 02 45.5		35.50N	140.10E	33			
JMA	XII	06 23 02 47.0±.1		35.74N±.01	140.13E±.01	53±2	4.2		
EIDC	XII	06 23 02 50.2±1.41		35.5N	140.0E	70±14.7	3.6b,3.3s		
NEIC	Felt I=V MM, Less reliable solution.								
NEIC	Felt I=III J1 in northwestern Chiba and southern Ibaraki Prefectures. Also felt III J1 in the Tokyo area.								

JMA Nodal plane solution: N115, Score 97%. NP1:ϕ_S297°,δ56°,λ1°. NP2:ϕ_S205°,δ89°,λ147°. Principle axes: T Plg24°,Azm155°; N Plg56°,Azm25°; P Plg23°,Azm256°.
EIDC Error ellipse is semi−major=21.3km semi−minor=6.4km azimuth=68
ISC XII 06 23 03 42±3.2 **35.8N**±.23 **140.2E**±.43 **45** **6 0-1**
JMA XII 06 23 03 42.2±.2 35.75N±.01 140.12E±.01 45±3 3.7 **¶97xii1551**
ISC Poorly determined
JMA Felt I=II J1
ISC XII 06 23 30 52±3.3 **35.6N**±.10 **140.1E**±.21 **81**±39 **10 0-2**
JMA XII 06 23 30 53.2±.1 35.60N±.01 140.05E±.01 69±2 3.0 **¶97xii1557**
ISC XII 07 03 50 40.9±.35 **37.69N**±.026 **141.57E**±.034 **91**±3.0 **5.2b** **328 1-156**
MOS XII 07 03 50 34.6 37.7N 141.6E 33 5.8b,4.6s **¶97xii1603**
BJI XII 07 03 50 38.6 37.79N 141.50E 69 5.4b,4.7s
JMA XII 07 03 50 40.3±.1 37.71N±.01 141.78E±.01 83±2 5.3
NEIC XII 07 03 50 40.4 37.70N 141.59E 87 5.3b
EIDC XII 07 03 50 40.5±.41 37.7N 141.6E 76±3.1 4.9b,4.2s
HRVD XII 07 03 50 42.2±.3 37.69N±.03 141.79E±.03 84±2.2
NEIC Mw5.4(HRV). Felt I=VI MM.
NEIC Felt I=IV J1 in northern Miyagi Prefecture; III J1 in eastern Fukushima, western Iwate, southern Miyagi, northern Tochigi and eastern Yamagata Prefectures; II J1 in Ibaraki and southern Tochigi Prefectures.
EIDC Error ellipse is semi−major=12.7km semi−minor=8.1km azimuth=97
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c50; Half duration: 1$\hat{s}$2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.15±.03; $M_{\theta\theta}$0.25±.05; $M_{\phi\phi}$0.91±.06; $M_{r\theta}$0.08±.05; $M_{r\phi}$0.55±.05; $M_{\theta\phi}$0.15±.05. Principal Axes: T 1.08,Plg14°,Azm282°; N 0.21, Plg1°,Azm192°; P −1.29,Plg76°,Azm97°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S14°, δ31°,λ−88°. NP2:ϕ_S191°,δ59°,λ−91°.
ISC XII 07 03 56 24±3.1 **37.7N**±.13 **141.9E**±.45 **81**±49 **10 1-2**
JMA XII 07 03 56 25.0±.1 37.76N±.01 141.73E±.02 79±2 3.2 **¶97xii1606**
ISC XII 07 04 16 40±3.0 **37.7N**±.17 **141.9E**±.54 **88**±47 **12 1-2**
JMA XII 07 04 16 41.1±.1 37.74N±.01 141.74E±.02 80±2 2.6 **¶97xii1609**
ISC XII 07 04 30 22±2.5 **37.7N**±.11 **141.8E**±.29 **87**±37 **13 1-2**
JMA XII 07 04 30 22.7±.2 37.72N±.01 141.76E±.02 80±3 2.9 **¶97xii1613**
ISC XII 07 05 37 25±2.7 **38.4N**±.11 **142.3E**±.28 **46** **12 1-2**
JMA XII 07 05 37 25.8±.1 38.40N±.01 142.17E±.02 46±2 3.2 **¶97xii1623**
JMA XII 07 06 14 12.5±.1 **36.68N**±.01 **140.11E**±.01 **115**±1 **¶97xii1633**
ISC XII 07 14 37 06±2.8 **40.35N**±.099 **142.2E**±.33 **44** **9 1-1**
JMA XII 07 14 37 05.7±.1 40.34N±.00 142.22E±.01 44±1 3.4 **¶97xii1722**
ISC XII 07 19 12 09±2.2 **37.88N**±.079 **141.2E**±.24 **80**±29 **12 0-2**
JMA XII 07 19 12 08.6±.1 37.88N±.00 141.19E±.01 77±1 2.4 **¶97xii1771**
JMA XII 07 22 35 18.3±.1 **36.06N**±.01 **140.10E**±.01 **62**±1 **2.2** **¶97xii1799**
ISC XII 07 23 49 58±1.1 **38.9N**±.13 **141.3E**±.43 **101** **9 0-1**
JMA XII 07 23 49 57.5±.2 38.88N±.01 141.36E±.02 101±2 **¶97xii1819**
ISC XII 08 04 16 59±2.5 **34.37N**±.084 **140.2E**±.11 **65**±36 **13 1-1**
JMA XII 08 04 16 59.4±.2 34.37N±.01 140.18E±.01 60±3 3.5 **¶97xii1860**
ISC XII 08 04 21 16±2.2 **36.41N**±.079 **141.1E**±.17 **33**±15 **12 0-2**
JMA XII 08 04 21 15.7±.1 36.40N±.01 141.03E±.02 45±3 3.3 **¶97xii1861**
ISC XII 08 08 10 40±1.1 **35.1N**±.20 **140.0E**±.19 **88** **6 0-1**
JMA XII 08 08 10 39.4±.3 35.04N±.01 140.02E±.02 88±2 2.2 **¶97xii1890**
JMA XII 08 13 17 04.9±.3 **36.52N**±.01 **140.59E**±.03 **73**±3 **2.1** **¶97xii1932**
ISC XII 08 13 57 43±4.1 **37.0N**±.18 **141.8E**±.39 **76**±28 **14 1-3**
JMA XII 08 13 57 44.2±.1 37.04N±.01 141.63E±.02 72±3 3.9 **¶97xii1938**
ISC XII 08 17 25 09±3.0 **37.2N**±.13 **141.3E**±.30 **84**±23 **13 0-3**
JMA XII 08 17 25 09.6±.1 37.23N±.01 141.26E±.02 80±2 3.2 **¶97xii1970**
ISC XII 08 22 30 51±3.2 **40.4N**±.10 **142.2E**±.32 **53**±45 **11 1-2**
JMA XII 08 22 30 51.6±.1 40.37N±.00 142.08E±.01 52±1 3.7 **¶97xii2031**
ISC XII 09 00 17 43±4.4 **35.6N**±.15 **140.1E**±.21 **86**±50 **8 0-1**
JMA XII 09 00 17 44.6±.1 35.63N±.01 140.06E±.01 67±2 2.6 **¶97xii2047**
ISC XII 09 05 32 08±1.6 **38.8N**±.16 **141.7E**±.25 **89** **9 0-1**
JMA XII 09 05 32 07.7±.2 38.80N±.01 141.69E±.01 89±2 2.3 **¶97xii2110**
ISC XII 09 06 49 41.4±.65 **37.72N**±.057 **141.2E**±.11 **72**±6.9 **3.8b** **23 0-90**
EIDC XII 09 06 49 34.7±1.05 37.5N 141.7E 0 3.8b,4.0L **¶97xii2121**
NEIC XII 09 06 49 37.5 37.54N 141.62E 33
JMA XII 09 06 49 42.0±.1 37.73N±.00 141.14E±.01 67±1 4.0
EIDC Error ellipse is semi−major=33.8km semi−minor=20.8km azimuth=135
NEIC Less reliable solution.
NEIC Felt I=II J1 in southern Miyagi Prefecture.
ISC XII 09 13 47 20±1.4 **40.2N**±.22 **141.2E**±.33 **131** **8 0-1**
JMA XII 09 13 47 20.2±.1 40.24N±.01 141.25E±.02 131±1 **¶97xii2179**
ISC XII 09 14 12 52±3.3 **39.63N**±.087 **142.2E**±.32 **57**±27 **11 0-1**
JMA XII 09 14 12 53.3±.1 39.63N±.00 142.11E±.01 51±1 3.6 **¶97xii2185**
JMA XII 09 16 55 59.8±.2 **40.63N**±.01 **141.97E**±.02 **63**±2 **2.3** **¶97xii2204**
ISC XII 09 19 21 19.7±.94 **36.49N**±.050 **141.1E**±.11 **42**±9.3 **4.1b**,3.8s **35 0-147**
NEIC XII 09 19 21 19.3 36.51N 141.15E 40 4.1b **¶97xii2224**
JMA XII 09 19 21 19.4±.1 36.48N±.01 141.11E±.02 41±3 4.0
EIDC XII 09 19 21 21.6±.68 36.4N 141.2E 41±5.5 3.9b,3.9s
NEIC Less reliable solution.
JMA Nodal plane solution: N47, Score 96%. NP1:ϕ_S213°,δ19°,λ14°. NP2:ϕ_S109°,δ86°,λ109°. Principle axes: T Plg46°,Azm38°; N Plg18°,Azm288°; P Plg38°,Azm183°.
EIDC Error ellipse is semi−major=15.7km semi−minor=9.1km azimuth=168
ISC XII 09 19 26 17±1.8 **36.48N**±.080 **141.2E**±.20 **43** **11 1-2**
JMA XII 09 19 26 17.2±.2 36.47N±.01 141.12E±.02 43±3 3.2 **¶97xii2225**
ISC XII 09 20 38 59±6.2 **37.2N**±.17 **141.3E**±.99 **76** **7 0-2**
JMA XII 09 20 38 59.7±.2 37.25N±.01 141.22E±.02 76±2 2.4 **¶97xii2234**
ISC XII 09 22 04 52±2.2 **37.8N**±.11 **141.1E**±.37 **68**±35 **9 0-1**
JMA XII 09 22 04 52.2±.1 37.75N±.00 141.10E±.01 64±1 2.4 **¶97xii2245**
JMA XII 09 23 32 40.6±.2 **36.60N**±.01 **140.77E**±.02 **83**±2 **1.9** **¶97xii2256**
JMA XII 10 06 02 07.1±.2 **36.38N**±.01 **141.04E**±.02 **44**±3 **2.8** **¶97xii2303**
ISC XII 10 23 14 50±2.9 **36.2N**±.18 **140.1E**±.19 **71**±38 **8 1-1**
JMA XII 10 23 14 50.0±.1 36.16N±.00 140.04E±.01 67±1 2.4 **¶97xii2442**
ISC XII 11 00 27 33±5.2 **38.8N**±.12 **141.4E**±.27 **109**±55 **10 0-1**
JMA XII 11 00 27 33.4±.2 38.85N±.01 141.43E±.02 104±2 **¶97xii2451**
ISC XII 11 02 03 47±7.6 **36.7N**±.45 **141.1E**±.80 **96**±48 **5 0-2**
JMA XII 11 02 03 48.1±.2 36.77N±.01 141.06E±.02 86±2 2.7 **¶97xii2469**
ISC Poorly determined
JMA XII 11 08 20 35.9±.2 **35.67N**±.01 **140.10E**±.01 **61**±2 **1.7** **¶97xii2520**
ISC XII 11 18 29 20±3.4 **36.4N**±.10 **140.5E**±.15 **104**±38 **12 0-2**
JMA XII 11 18 29 21.4±.1 36.33N±.01 140.53E±.01 89±1 2.3 **¶97xii2620**
JMA XII 12 10 44 32.9±.1 **34.70N**±.02 **140.96E**±.01 **62**±1 **2.6** **¶97xii2734**
ISC XII 12 12 46 42±1.1 **38.01N**±.074 **142.0E**±.16 **76**±12 **3.4b** **25 1-89**
EIDC XII 12 12 46 35.0±1.17 37.7N 142.6E 0 3.5b,3.8L **¶97xii2752**
NEIC XII 12 12 46 38.0 37.73N 142.48E 33
JMA XII 12 12 46 43.2±.1 38.07N±.00 141.82E±.01 81±2 3.9
EIDC Error ellipse is semi−major=39.5km semi−minor=23.4km azimuth=147
NEIC Less reliable solution.
ISC XII 12 17 10 06±5.9 **37.7N**±.33 **141.6E**±.79 **74** **5 1-1**
JMA XII 12 17 10 06.1±.2 37.75N±.01 141.53E±.02 74±3 2.0 **¶97xii2787**
ISC Poorly determined
ISC XII 12 21 48 50±4.1 **39.13N**±.089 **142.7E**±.39 **19** **11 1-2**
JMA XII 12 21 48 47.3±.3 39.10N±.01 142.88E±.02 19±3 3.3 **¶97xii2824**
JMA XII 12 21 49 44.5±.2 **39.29N**±.01 **142.77E**±.02 **26**±3 **2.9** **¶97xii2825**
ISC XII 12 22 23 41±3.0 **34.9N**±.12 **140.0E**±.16 **70**±32 **11 0-1**
JMA XII 12 22 23 40.9±.2 34.93N±.01 140.02E±.01 66±2 2.7 **¶97xii2833**
ISC XII 13 01 50 49±1.9 **36.35N**±.083 **141.0E**±.16 **45**±34 **11 0-2**
JMA XII 13 01 50 49.0±.1 36.34N±.01 140.95E±.02 47±2 3.1 **¶97xii2858**
ISC XII 13 06 45 31.2±.43 **39.61N**±.039 **142.18E**±.055 **87**±3.5 **4.5b** **126 0-149**
MOS XII 13 06 45 24.4 39.4N 142.2E 33 5.4b **¶97xii2904**
NEIC XII 13 06 45 24.7 39.56N 142.16E 33 4.7b
BJI XII 13 06 45 25.8 39.45N 142.45E 51 4.8b,4.5s
EIDC XII 13 06 45 29.3±1.73 39.6N 142.2E 59±16.3 4.2b
JMA XII 13 06 45 30.5±.1 39.64N±.01 142.35E±.02 78±2 4.6
NEIC Felt along the northeast coast of Honshu.
EIDC Error ellipse is semi−major=18.6km semi−minor=9.2km azimuth=97
JMA Felt I=III J1
JMA Nodal plane solution: N137, Score 93%. NP1:ϕ_S134°,δ24°,λ−89°. NP2:ϕ_S315°,δ66°,λ−90°. Principle axes: T Plg21°,Azm44°; N Plg0°,Azm314°; P Plg69°,Azm224°.
ISC XII 13 13 58 30±3.6 **35.6N**±.13 **140.1E**±.23 **78**±45 **8 0-2**
JMA XII 13 13 58 31.2±.1 35.66N±.01 140.13E±.01 61±2 2.3 **¶97xii2953**
ISC XII 13 15 46 09±4.2 **35.6N**±.14 **140.1E**±.21 **89**±47 **7 0-1**
JMA XII 13 15 46 10.8±.1 35.64N±.01 140.09E±.01 68±2 2.2 **¶97xii2969**
ISC XII 13 20 28 08±6.1 **36.9N**±.26 **141.9E**±.54 **31** **9 1-2**
JMA XII 13 20 28 09.3±.2 37.00N±.01 141.75E±.02 31±4 3.1 **¶97xii3013**
ISC XII 13 20 57 11±1.7 **35.91N**±.075 **140.9E**±.22 **24**±11 **9 0-2**
JMA XII 13 20 57 11.4±.2 35.90N±.01 140.83E±.02 27±2 3.4 **¶97xii3019**
ISC XII 13 22 51 48.8±.91 **39.26N**±.072 **142.4E**±.11 **30** **3.9b** **18 1-67**
EIDC XII 13 22 51 45.8±1.15 39.1N 142.9E 0 4.0b,3.8L **¶97xii3033**
JMA XII 13 22 51 47.2±.2 39.24N±.01 142.50E±.02 30±3 4.4
NEIC XII 13 22 51 48.4 39.01N 142.87E 33
EIDC Error ellipse is semi−major=31.2km semi−minor=20.0km azimuth=116
NEIC Felt I=II MM, Less reliable solution.
NEIC Felt I=I J1 in eastern Iwate Prefecture.
ISC XII 13 23 50 20±2.7 **36.0N**±.12 **140.0E**±.23 **63**±35 **9 1-2**
JMA XII 13 23 50 19.3±.1 36.02N±.01 140.10E±.01 64±1 2.3 **¶97xii3039**
ISC XII 14 02 59 00±1.3 **38.8N**±.15 **141.6E**±.40 **106**±13 3.4b **9 0-62**
JMA XII 14 02 59 01.2±.1 38.76N±.01 141.51E±.02 98±1 **¶97xii3070**
ISC XII 14 07 28 47±2.6 **35.7N**±.21 **140.1E**±.26 **66** **5 1-1**
JMA XII 14 07 28 47.6±.2 35.77N±.01 140.00E±.01 66±2 1.6 **¶97xii3112**
ISC XII 14 09 25 57±3.9 **40.23N**±.093 **142.4E**±.38 **32**±15 **11 0-2**
JMA XII 14 09 25 56.7±.1 40.22N±.00 142.33E±.01 40±1 3.7 **¶97xii3126**
ISC XII 14 10 41 43±5.0 **39.5N**±.11 **142.3E**±.48 **20**±36 **8 0-1**
JMA XII 14 10 41 43.5±.1 39.47N±.00 142.29E±.01 16±2 3.0 **¶97xii3133**
ISC XII 14 11 38 57±5.2 **39.5N**±.11 **142.3E**±.49 **19**±38 **8 0-1**
JMA XII 14 11 38 57.3±.2 39.46N±.00 142.29E±.01 17±2 3.0 **¶97xii3139**
ISC XII 14 11 39 17±6.5 **39.5N**±.15 **142.3E**±.58 **16** **8 0-1**
JMA XII 14 11 39 18.0±.1 39.46N±.00 142.22E±.01 16±1 3.1 **¶97xii3140**
ISC Poorly determined
ISC XII 14 17 56 37±5.7 **39.46N**±.085 **142.3E**±.41 **10**±20 **9 0-1**
JMA XII 14 17 56 37.8±.1 39.46N±.00 142.28E±.01 16±2 2.8 **¶97xii3174**
ISC XII 14 21 14 48±4.1 **37.1N**±.20 **141.5E**±.49 **85**±40 **6 1-2**
JMA XII 14 21 14 48.7±.2 37.15N±.01 141.34E±.02 78±3 2.3 **¶97xii3197**
JMA XII 14 21 59 26.8±.3 **38.89N**±.01 **141.44E**±.02 **82**±2 **1.4** **¶97xii3203**
ISC XII 15 03 11 34±2.5 **38.4N**±.22 **141.3E**±.65 **70** **6 0-1**
JMA XII 15 03 11 34.0±.1 38.36N±.00 141.30E±.01 70±1 1.4 **¶97xii3236**
ISC XII 15 17 04 50±7.0 **38.2N**±.41 **141.7E**±.97 **63** **6 0-1**
JMA XII 15 17 04 51.3±.1 38.27N±.01 141.58E±.01 63±1 2.1 **¶97xii3313**
ISC Poorly determined
JMA XII 16 05 41 29.7±.2 **35.43N**±.01 **141.46E**±.03 **64**±2 **2.4** **¶97xii3391**
JMA XII 16 07 41 09.9±.2 **36.71N**±.01 **141.31E**±.02 **40**±4 **2.9** **¶97xii3407**
ISC XII 16 09 19 00±4.4 **35.6N**±.16 **140.1E**±.24 **74**±63 **6 1-1**
JMA XII 16 09 19 00.5±.1 35.66N±.01 140.16E±.01 62±2 2.0 **¶97xii3422**
ISC XII 16 09 22 38±5.1 **35.9N**±.40 **140.2E**±.36 **72**±64 **6 1-1**
JMA XII 16 09 22 38.7±.1 35.91N±.01 140.14E±.01 60±1 2.0 **¶97xii3423**
ISC Poorly determined
ISC XII 16 10 51 50±4.9 **36.4N**±.41 **140.7E**±.53 **81** **6 0-1**
JMA XII 16 10 51 50.3±.2 36.40N±.01 140.66E±.01 81±2 1.9 **¶97xii3439**
ISC XII 16 12 28 52±2.9 **34.7N**±.14 **140.7E**±.21 **57**±29 **11 0-3**
JMA XII 16 12 28 52.3±.2 34.72N±.01 140.61E±.01 57±2 2.8 **¶97xii3448**
ISC XII 16 13 17 51±4.2 **37.4N**±.18 **141.3E**±.52 **90**±52 **7 0-2**
JMA XII 16 13 17 51.4±.1 37.42N±.01 141.29E±.01 82±2 2.2 **¶97xii3451**
JMA XII 16 19 10 59.3±.0 **38.07N**±.00 **141.20E**±.00 **69**±1 **1.6** **¶97xii3491**
ISC XII 16 23 39 54±2.8 **37.1N**±.16 **141.3E**±.39 **66** **6 0-2**
JMA XII 16 23 39 54.7±.1 37.13N±.01 141.20E±.02 66±2 2.5 **¶97xii3524**
ISC XII 17 01 48 12±7.1 **39.9N**±.27 **142.2E**±.59 **28** **8 0-1**
JMA XII 17 01 48 07.4±.2 40.05N±.01 142.59E±.02 28±2 2.8 **¶97xii3535**
ISC XII 17 06 49 51±3.9 **38.3N**±.17 **142.0E**±.47 **82**±53 **8 1-2**
JMA XII 17 06 49 51.7±.1 38.30N±.01 141.91E±.01 79±2 2.8 **¶97xii3566**
ISC XII 17 07 54 40±2.9 **36.4N**±.17 **140.5E**±.25 **60**±28 **10 0-1**
JMA XII 17 07 54 39.7±.1 36.40N±.00 140.57E±.01 54±2 2.8 **¶97xii3574**
ISC XII 17 08 40 21±3.2 **35.1N**±.64 **140.2E**±.29 **64** **5 0-1**
JMA XII 17 08 40 21.1±.2 35.15N±.01 140.19E±.01 64±2 2.2 **¶97xii3580**
ISC Poorly determined
ISC XII 17 10 33 24±3.6 **40.4N**±.41 **141.6E**±.58 **106** **6 0-1**
JMA XII 17 10 33 23.4±.1 40.43N±.01 141.63E±.02 106±1 **¶97xii3591**
ISC XII 17 18 58 31±4.1 **34.8N**±.24 **140.0E**±.18 **67**±46 **11 0-1**
JMA XII 17 18 58 30.7±.2 34.85N±.01 140.01E±.01 70±2 2.3 **¶97xii3647**
ISC XII 18 00 22 40±3.1 **40.5N**±.11 **141.2E**±.20 **94**±34 **10 0-2**
JMA XII 18 00 22 40.2±.1 40.48N±.00 141.17E±.01 93±1 **¶97xii3685**
ISC XII 18 04 41 27±1.2 **38.0N**±.18 **141.0E**±.41 **77** **6 0-1**
JMA XII 18 04 41 27.1±.1 37.98N±.00 141.02E±.01 77±1 2.1 **¶97xii3709**
ISC XII 18 06 03 16±1.8 **35.61N**±.081 **140.1E**±.14 **81**±23 **14 0-2**
JMA XII 18 06 03 16.6±.1 35.63N±.01 140.09E±.01 73±2 3.4 **¶97xii3719**
ISC XII 18 12 20 17±3.2 **40.88N**±.075 **141.7E**±.17 **105**±43 **11 0-2**
JMA XII 18 12 20 17.0±.1 40.88N±.00 141.67E±.01 102±1 **¶97xii3760**
ISC XII 18 15 01 39±6.9 **36.7N**±.30 **141.9E**±.61 **37** **8 1-2**
JMA XII 18 15 01 39.4±.3 36.77N±.01 141.74E±.02 37 2.9 **¶97xii3784**
JMA XII 18 17 20 55.7±.2 **39.41N**±.01 **142.68E**±.03 **70**±4 **2.4** **¶97xii3796**
ISC XII 18 17 46 21±9.5 **38.0N**±.40 **142.5E**±.83 **41** **8 1-2**
JMA XII 18 17 46 21.8±.3 38.08N±.01 142.40E±.03 41 2.8 **¶97xii3798**
ISC XII 18 18 54 55±2.3 **36.18N**±.086 **141.9E**±.23 **49** **17 1-3**
JMA XII 18 18 54 54.8±.3 36.21N±.01 141.89E±.03 49 3.1 **¶97xii3805**
JMA XII 19 02 42 11.5±.1 **38.50N**±.00 **141.29E**±.01 **67**±1 **1.8** **¶97xii3882**
ISC XII 19 06 05 13±3.5 **36.1N**±.11 **140.2E**±.16 **87**±50 **7 1-1**
JMA XII 19 06 05 12.9±.1 36.10N±.01 140.21E±.01 89±1 2.1 **¶97xii3904**
ISC XII 19 09 09 33±2.8 **35.20N**±.098 **141.4E**±.31 **46** **9 1-3**
JMA XII 19 09 09 34.2±.2 35.20N±.01 141.20E±.02 46±3 2.9 **¶97xii3921**
ISC XII 19 14 40 24±3.5 **35.6N**±.11 **140.2E**±.24 **79**±39 **9 0-2**
JMA XII 19 14 40 25.0±.1 35.63N±.01 140.17E±.01 66±1 2.7 **¶97xii3982**
ISC XII 19 14 43 17±2.4 **37.5N**±.12 **141.5E**±.24 **52**±46 **10 0-2**
JMA XII 19 14 43 17.5±.1 37.50N±.01 141.39E±.01 52±2 2.9 **¶97xii3984**
ISC XII 19 15 03 28±4.4 **35.6N**±.16 **140.2E**±.27 **76**±50 **7 0-1**
JMA XII 19 15 03 29.2±.1 35.65N±.01 140.18E±.01 60±2 2.0 **¶97xii3986**

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**20 06 52 01**±8.2	**39.7N**±.17	**142.4E**±.82	**36**		**9**	**0-1**
JMA	XII	20 06 52 02.8±.2	39.71N±.00	142.25E±.02	36±2	3.1		¶97xii4091
JMA	**XII**	**20 10 07 23.9**±.2	**36.75N**±.01	**140.79E**±.02	**83**±2	**2.0**		¶97xii4105
ISC	**XII**	**20 11 08 23**±3.7	**38.4N**±.14	**142.5E**±.40	**35**		**8**	**1-2**
JMA	XII	20 11 08 21.5±.2	38.37N±.01	142.52E±.02	35±4	2.8		¶97xii4109
ISC	**XII**	**20 17 59 58**±4.1	**37.3N**±.17	**141.9E**±.39	**39**		**7**	**1-2**
JMA	XII	20 17 59 58.9±.3	37.34N±.01	141.76E±.03	39	2.8		¶97xii4143
ISC	**XII**	**20 18 52 25**±5.0	**40.6N**±.10	**142.6E**±.57	**20**		**9**	**1-2**
JMA	XII	20 18 52 24.2±.2	40.66N±.01	142.60E±.01	20±3	2.8		¶97xii4155
ISC	**XII**	**21 04 45 38**±5.9	**36.7N**±.33	**141.1E**±.96	**84**		**4**	**0-1**
JMA	XII	21 04 45 38.6±.2	36.69N±.01	140.94E±.02	84±2	2.1		¶97xii4212
ISC		Poorly determined						
JMA	**XII**	**21 09 03 02.4**±.1	**34.38N**±.02	**140.20E**±.01	**75**±2	**2.3**		¶97xii4235
JMA	**XII**	**21 15 39 51.3**±.4	**36.27N**±.02	**141.76E**±.04	**60**	**2.3**		¶97xii4269
ISC	**XII**	**21 19 49 46**±4.5	**37.0N**±.20	**141.7E**±.43	**37**		**7**	**1-2**
JMA	XII	21 19 49 46.3±.3	37.08N±.01	141.58E±.02	37±4	3.3		¶97xii4297
ISC	**XII**	**21 23 22 38**±3.5	**37.8N**±.15	**141.1E**±.34	**68**±45		**7**	**0-1**
JMA	XII	21 23 22 37.6±.0	37.82N±.00	141.08E±.01	72±1	2.3		¶97xii4319
ISC	**XII**	**22 03 55 36**±6.5	**39.9N**±.12	**142.5E**±.59	**29**±15		**10**	**1-2**
JMA	XII	22 03 55 36.5±.2	39.93N±.00	142.43E±.02	39±2	3.2		¶97xii4350
JMA	**XII**	**22 05 55 56.1**±.2	**36.48N**±.01	**141.13E**±.02	**42**±3	**2.9**		¶97xii4362
ISC	**XII**	**22 10 31 46**±3.0	**40.35N**±.096	**142.2E**±.33	**39**±54		**12**	**0-5**
JMA	XII	22 10 31 46.0±.1	40.33N±.00	142.13E±.01	51±1	4.2		¶97xii4405
ISC	**XII**	**22 11 40 29**±3.3	**35.5N**±.11	**140.2E**±.23	**77**±38		**9**	**0-2**
JMA	XII	22 11 40 30.0±.1	35.59N±.01	140.13E±.01	66±1	2.4		¶97xii4415
ISC	**XII**	**22 15 21 49**±6.3	**36.7N**±.24	**140.9E**±.46	**89**±48		**9**	**0-2**
JMA	XII	22 15 21 48.8±.2	36.65N±.01	140.86E±.02	85±2	2.4		¶97xii4438
ISC	**XII**	**22 16 32 01.4**±.45	**40.12N**±.032	**142.27E**±.035	**55**±4.0	**5.3b,4.9s**	**413**	**0-154**
JMA	XII	22 16 31 59.4±.2	40.17N±.00	142.50E±.02	36±2	5.1		¶97xii4450
BJI	XII	22 16 31 59.5	40.07N	142.40E	58	5.4b,5.0s		
MOS	XII	22 16 32 00.1	40.2N	142.3E	40	5.8b,4.9s		
NEIC	XII	22 16 32 00.2	40.13N	142.33E	46	5.3b,4.8s		
EIDC	XII	22 16 32 02.0±.42	40.1N	142.3E	47±3.5	4.7b,4.7s		
HRVD	XII	22 16 32 04.1±.4	40.10N±.05	142.44E±.05	43±3.9			
JMA	Nodal plane solution: N72, Score 93%. NP1:ϕ_S197°,δ33°,λ70°. NP2:ϕ_S40°,δ59°,λ104°. Principle axes: T Plg73°,Azm342°; N Plg11°,Azm214°; P Plg13°,Azm121°.							
NEIC	Mw5.4(HRV). Felt I=V MM.							
NEIC	Felt I=III J1 in eastern Aomori Prefecture; II J1 in northern Miyagi and much of Iwate Prefectures; I J1 in eastern Akita Prefecture. Also felt I J1 in southern Hokkaido.							
EIDC	Error ellipse is semi−major=12.8km semi−minor=9.5km azimuth=99							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c51; Half duration: 1$\hat{s}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.01±.04; $M_{\theta\theta}$0.10±.07; $M_{\phi\phi}$−1.11±.07; $M_{r\theta}$0.37±.09; $M_{r\phi}$0.92±.10; $M_{\theta\phi}$−0.41±.06. Principal Axes: T 1.38,Plg69°,Azm298°; N 0.23, Plg3°,Azm199°; P −1.61,Plg21°,Azm108°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S192°,δ25°,λ82°. NP2:ϕ_S20°,δ66°,λ94°.							
ISC	**XII**	**22 17 04 12**±4.6	**39.2N**±.11	**142.5E**±.44	**27**		**9**	**1-1**
JMA	XII	22 17 04 12.2±.2	39.22N±.01	142.49E±.02	27±3	3.0		¶97xii4455
ISC	**XII**	**22 19 39 58**±5.9	**40.2N**±.11	**142.5E**±.54	**22**±19		**9**	**1-2**
JMA	XII	22 19 39 58.7±.1	40.16N±.00	142.46E±.02	32±2	3.2		¶97xii4477
ISC	**XII**	**22 22 22 08**±4.2	**40.14N**±.094	**142.5E**±.40	**26**±15		**11**	**1-2**
JMA	XII	22 22 22 08.2±.1	40.17N±.00	142.46E±.01	31±2	3.2		¶97xii4494
JMA	**XII**	**22 23 28 18.1**±.1	**36.00N**±.01	**140.09E**±.01	**94**±1			¶97xii4502
ISC	**XII**	**23 06 18 16.2**±.72	**36.18N**±.048	**140.93E**±.083	**43**±5.9	**3.9b**,3.4s	**42**	**0-91**
JMA	XII	23 06 18 15.9±.1	36.24N±.01	140.93E±.02	42±2	4.2		¶97xii4551
NEIC	XII	23 06 18 16.4	36.09N	140.91E	48	4.0b		
EIDC	XII	23 06 18 18.6±.62	36.1N	141.0E	50±5.7	3.6b,3.1s		
JMA	Felt I=II J1							
JMA	Nodal plane solution: N75, Score 97%. NP1:ϕ_S221°,δ30°,λ157°. NP2:ϕ_S333°,δ78°,λ62°. Principle axes: T Plg49°,Azm212°; N Plg27°,Azm338°; P Plg28°,Azm84°.							
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=19.6km semi−minor=13.5km azimuth=86							
ISC	**XII**	**23 11 42 05**±4.8	**37.2N**±.25	**141.8E**±.59	**76**±50		**8**	**1-2**
JMA	XII	23 11 42 06.8±.2	37.24N±.01	141.56E±.03	79±3	2.9		¶97xii4592
ISC	**XII**	**23 15 21 37**±6.1	**39.0N**±.14	**142.5E**±.51	**24**±19		**10**	**1-2**
JMA	XII	23 15 21 37.8±.1	39.06N±.00	142.38E±.01	28±2	3.0		¶97xii4623
JMA	**XII**	**23 19 18 40.1**±.1	**36.02N**±.00	**140.11E**±.01	**62**±1	**2.0**		¶97xii4648
ISC	**XII**	**23 21 56 50**±2.5	**40.7N**±.25	**141.5E**±.52	**80**		**5**	**0-1**
JMA	XII	23 21 56 49.9±.1	40.65N±.01	141.47E±.02	80±1	1.5		¶97xii4659
ISC	**XII**	**24 09 33 09**±3.5	**38.78N**±.088	**141.5E**±.21	**114**±38		**14**	**0-2**
JMA	XII	24 09 33 09.6±.1	38.79N±.00	141.53E±.01	108±1			¶97xii4732
ISC	**XII**	**24 12 09 24**±2.1	**35.67N**±.089	**141.1E**±.25	**37**±26		**8**	**0-2**
JMA	XII	24 12 09 24.2±.2	35.68N±.01	141.03E±.02	40±2	3.2		¶97xii4755
ISC	**XII**	**24 12 31 01**±1.9	**34.8N**±.11	**140.1E**±.10	**63**±24		**13**	**0-2**
JMA	XII	24 12 31 01.2±.1	34.82N±.01	140.11E±.01	63±2	3.3		¶97xii4758
ISC	**XII**	**24 14 03 26**±2.8	**36.2N**±.10	**140.9E**±.21	**54**±41		**10**	**0-2**
JMA	XII	24 14 03 26.3±.1	36.22N±.01	140.79E±.01	45±2	3.0		¶97xii4765
ISC	**XII**	**25 07 31 35**±1.6	**35.7N**±.14	**140.0E**±.19	**61**		**5**	**1-1**
JMA	XII	25 07 31 34.7±.1	35.68N±.01	140.01E±.01	61±2	2.0		¶97xii4884
ISC	**XII**	**25 10 36 25**±1.7	**40.82N**±.066	**141.2E**±.17	**89**±23		**12**	**0-2**
JMA	XII	25 10 36 24.8±.1	40.83N±.00	141.21E±.01	90±1	2.4		¶97xii4911
ISC	**XII**	**25 11 35 53**±1.6	**36.6N**±.24	**140.3E**±.31	**103**		**5**	**0-1**
JMA	XII	25 11 35 53.1±.2	36.54N±.01	140.25E±.01	103±2			¶97xii4916
ISC	**XII**	**25 15 07 20**±2.0	**34.57N**±.085	**140.2E**±.12	**58**±32		**12**	**0-3**
JMA	XII	25 15 07 19.4±.1	34.59N±.01	140.18E±.01	60±2	2.8		¶97xii4949
ISC	**XII**	**26 03 11 58**±2.0	**38.06N**±.089	**142.1E**±.23	**84**±22		**20**	**1-3**
JMA	XII	26 03 11 59.0±.1	38.09N±.01	142.01E±.02	80±2	3.8		¶97xii5033
ISC	**XII**	**26 03 30 50**±3.1	**37.7N**±.14	**141.9E**±.35	**43**		**9**	**1-2**
JMA	XII	26 03 30 50.5±.2	37.71N±.01	141.83E±.02	43±3	2.9		¶97xii5035
ISC	**XII**	**26 04 12 29**±3.0	**38.6N**±.10	**142.3E**±.31	**83**±31		**15**	**1-2**
JMA	XII	26 04 12 29.8±.1	38.64N±.01	142.20E±.02	77±2	3.2		¶97xii5041
ISC	**XII**	**26 07 22 23**±4.8	**36.7N**±.27	**141.3E**±.50	**85**±41		**9**	**1-2**
JMA	XII	26 07 22 24.6±.2	36.77N±.01	141.19E±.02	78±3	2.8		¶97xii5078
ISC	**XII**	**26 12 15 38**±3.5	**35.3N**±.17	**140.2E**±.20	**74**±39		**11**	**0-1**
JMA	XII	26 12 15 39.1±.1	35.31N±.01	140.16E±.01	62±2	1.9		¶97xii5115
ISC	**XII**	**26 12 57 53**±2.0	**38.9N**±.16	**141.6E**±.48	**60**		**7**	**0-1**
JMA	XII	26 12 57 52.5±.1	38.85N±.00	141.64E±.01	60±1	1.8		¶97xii5122
ISC		Poorly determined						
ISC	**XII**	**26 15 10 18**±1.1	**35.3N**±.13	**140.2E**±.25	**73**		**5**	**0-1**
JMA	XII	26 15 10 17.9±.2	35.29N±.01	140.07E±.01	73±2	1.8		¶97xii5159
ISC	**XII**	**26 17 17 21**±3.5	**35.6N**±.12	**140.1E**±.21	**78**±45		**10**	**0-1**
JMA	XII	26 17 17 22.2±.1	35.68N±.00	140.10E±.01	63±1	2.3		¶97xii5179
ISC	**XII**	**26 18 38 21**±3.0	**37.3N**±.15	**141.9E**±.28	**45**		**10**	**1-2**
JMA	XII	26 18 38 20.8±.2	37.37N±.01	141.81E±.02	45±4	2.9		¶97xii5187
ISC	**XII**	**26 22 01 02**±4.7	**39.6N**±.12	**142.2E**±.40	**57**±35		**11**	**0-1**
JMA	XII	26 22 01 03.5±.1	39.62N±.00	142.12E±.01	50±1	3.0		¶97xii5202
JMA	**XII**	**26 23 15 07.7**±.1	**38.85N**±.00	**141.41E**±.01	**82**±1	**1.5**		¶97xii5204
ISC	**XII**	**27 00 56 58**±4.1	**36.0N**±.16	**140.2E**±.22	**64**±63		**8**	**1-1**
JMA	XII	27 00 56 58.9±.1	36.02N±.00	140.11E±.01	61±1	2.1		¶97xii5217
ISC	**XII**	**27 06 06 14**±7.1	**36.9N**±.39	**141.3E**±.81	**80**±47		**6**	**1-2**
JMA	XII	27 06 06 15.3±.1	36.91N±.01	141.21E±.02	76±2	2.4		¶97xii5261
ISC		Poorly determined						
ISC	**XII**	**27 10 34 41**±8.0	**39.5N**±.16	**142.7E**±.75	**29**		**7**	**1-1**
JMA	XII	27 10 34 41.9±.2	39.44N±.01	142.66E±.02	29±2	3.3		¶97xii5278
ISC	**XII**	**27 16 53 46**±1.1	**34.13N**±.091	**140.37E**±.097	**58**		**13**	**1-3**
JMA	XII	27 16 53 45.7±.2	34.16N±.01	140.36E±.01	58±3	3.3		¶97xii5319
ISC	**XII**	**27 19 45 22**±4.4	**38.9N**±.10	**141.0E**±.18	**86**±44		**9**	**0-1**
JMA	XII	27 19 45 21.9±.1	38.88N±.00	141.01E±.01	88±1	1.8		¶97xii5341
ISC	**XII**	**27 21 49 52**±3.2	**40.4N**±.11	**142.2E**±.32	**62**±32		**12**	**1-2**
JMA	XII	27 21 49 52.8±.1	40.38N±.00	142.14E±.01	58±1	3.8		¶97xii5355
JMA	**XII**	**27 23 55 05.9**±.1	**36.13N**±.00	**140.13E**±.00	**62**±1	**1.5**		¶97xii5363
JMA	**XII**	**28 00 32 48.4**±.2	**35.69N**±.01	**140.21E**±.02	**61**±2	**1.8**		¶97xii5367
ISC	**XII**	**28 04 00 18**±1.7	**36.1N**±.13	**140.2E**±.19	**61**		**9**	**1-1**
JMA	XII	28 04 00 17.9±.1	36.13N±.00	140.14E±.01	61±1	2.0		¶97xii5390
ISC	**XII**	**28 05 38 42**±4.4	**36.0N**±.10	**141.6E**±.37	**20**±22		**8**	**1-3**
JMA	XII	28 05 38 42.7±.3	35.94N±.01	141.51E±.03	49±5	2.9		¶97xii5405
ISC	**XII**	**28 08 16 56**±3.2	**36.8N**±.30	**140.8E**±.55	**84**		**5**	**0-1**
JMA	XII	28 08 16 54.7±.2	36.66N±.01	140.95E±.02	84±2	2.3		¶97xii5422
ISC		Poorly determined						
JMA	**XII**	**28 18 33 20.4**±.3	**40.82N**±.01	**142.41E**±.03	**68**	**2.1**		¶97xii5480
JMA	**XII**	**29 05 03 26.8**±.2	**36.70N**±.01	**141.16E**±.02	**71**±3	**1.9**		¶97xii5548
ISC	**XII**	**29 10 30 37**±1.9	**40.46N**±.069	**141.4E**±.17	**83**±24		**15**	**0-2**
JMA	XII	29 10 30 36.5±.0	40.47N±.00	141.41E±.01	82±1	3.0		¶97xii5573
ISC	**XII**	**29 13 57 55**±4.7	**36.6N**±.23	**141.0E**±.38	**91**±31		**14**	**0-2**
JMA	XII	29 13 57 56.3±.1	36.62N±.01	140.87E±.01	84±2	2.9		¶97xii5590
ISC	**XII**	**29 14 37 39**±2.9	**37.8N**±.18	**141.5E**±.40	**76**		**6**	**1-1**
JMA	XII	29 14 37 39.5±.1	37.78N±.01	141.43E±.01	76±2	1.8		¶97xii5595
ISC	**XII**	**29 16 11 47.9**±.61	**35.74N**±.056	**140.70E**±.099	**55**±6.5	**3.8b**,2.9s	**22**	**0-75**
NEIC	XII	29 16 11 45.0	35.72N	140.86E	33	3.8b		¶97xii5611
JMA	XII	29 16 11 48.1±.1	35.76N±.01	140.66E±.01	46±2	3.4		
EIDC	XII	29 16 11 49.3±2.32	35.7N	140.7E	48±23.2	3.6b,3.6L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=29.6km semi−minor=16.3km azimuth=92							
ISC	**XII**	**29 19 53 54**±2.4	**35.71N**±.078	**140.7E**±.22	**50**±30		**9**	**0-2**
JMA	XII	29 19 53 54.5±.1	35.72N±.00	140.67E±.01	47±1	3.3		¶97xii5628
ISC	**XII**	**30 01 10 33**±4.9	**37.3N**±.18	**141.9E**±.48	**39**		**7**	**1-2**
JMA	XII	30 01 10 33.5±.3	37.36N±.01	141.73E±.02	39	2.8		¶97xii5666
ISC	**XII**	**30 01 52 25.7**±.83	**34.24N**±.086	**140.19E**±.090	**81**		**14**	**1-3**
JMA	XII	30 01 52 25.6±.2	34.23N±.01	140.19E±.01	81±2	3.1		¶97xii5670
ISC	**XII**	**30 02 27 00**±1.4	**38.73N**±.062	**141.4E**±.15	**77**±17		**18**	**0-3**
JMA	XII	30 02 27 00.1±.0	38.73N±.00	141.44E±.01	77±1	3.7		¶97xii5672
JMA	Nodal plane solution: N53, Score 98%. NP1:ϕ_S283°,δ51°,λ20°. NP2:ϕ_S179°,δ75°,λ140°. Principle axes: T Plg39°,Azm132°; N Plg47°,Azm342°; P Plg15°,Azm235°.							
ISC	**XII**	**30 04 29 10**±4.8	**38.6N**±.14	**141.1E**±.20	**82**±53		**10**	**0-1**
JMA	XII	30 04 29 09.9±.1	38.56N±.01	141.13E±.01	80±2	1.7		¶97xii5681
ISC	**XII**	**30 08 50 12**±3.7	**37.5N**±.29	**141.3E**±.49	**77**		**4**	**0-1**
JMA	XII	30 08 50 12.4±.1	37.49N±.01	141.30E±.01	77±1	1.7		¶97xii5707
ISC		Poorly determined						
ISC	**XII**	**30 10 13 58**±3.0	**40.87N**±.089	**141.8E**±.31	**108**±38		**11**	**1-2**
JMA	XII	30 10 13 58.8±.1	40.85N±.01	141.81E±.02	97±2			¶97xii5720
JMA	**XII**	**30 16 46 00.7**±.2	**35.98N**±.02	**140.30E**±.02	**90**±2	**1.8**		¶97xii5759
ISC	**XII**	**30 17 36 54**±4.2	**40.12N**±.092	**142.5E**±.40	**28**±15		**11**	**0-2**
JMA	XII	30 17 36 54.3±.1	40.13N±.00	142.45E±.01	35±2	3.5		¶97xii5765
ISC	**XII**	**30 17 50 29**±1.6	**38.51N**±.069	**141.2E**±.14	**73**±20		**17**	**0-137**
JMA	XII	30 17 50 29.1±.0	38.51N±.00	141.24E±.01	73±1	2.9		¶97xii5767
ISC	**XII**	**31 10 42 07**±4.1	**40.4N**±.36	**141.7E**±.35	**71**		**9**	**0-1**
JMA	XII	31 10 42 06.4±.1	40.40N±.00	141.69E±.01	71±1	2.0		¶97xii5879
ISC	**XII**	**31 10 44 37**±2.7	**36.38N**±.097	**140.6E**±.17	**82**±33		**10**	**0-1**
JMA	XII	31 10 44 37.0±.1	36.37N±.00	140.59E±.01	76±1	2.4		¶97xii5881
ISC	**XII**	**31 15 06 17**±7.7	**35.5N**±.30	**140.1E**±.92	**84**		**4**	**1-1**
JMA	XII	31 15 06 20.0±.3	35.63N±.02	139.74E±.02	84±3	1.4		¶97xii5917
ISC		Poorly determined						
JMA	**XII**	**31 17 50 27.9**±.3	**35.58N**±.02	**140.39E**±.03	**68**±3	**1.8**		¶97xii5937
JMA	**XII**	**31 19 13 19.0**±.2	**36.15N**±.01	**140.03E**±.01	**66**±2	**1.1**		¶97xii5953
ISC	**XII**	**31 19 47 44**±1.6	**35.8N**±.14	**140.1E**±.26	**97**		**6**	**1-1**
JMA	XII	31 19 47 44.3±.1	35.78N±.01	140.06E±.01	97±1			¶97xii5959
ISC	**XII**	**31 21 07 47**±3.9	**37.1N**±.17	**141.3E**±.41	**88**±31		**9**	**0-2**
JMA	XII	31 21 07 47.2±.1	37.05N±.01	141.24E±.02	80±2	2.5		¶97xii5969
ISC	**XII**	**31 21 24 42**±1.2	**38.9N**±.18	**141.4E**±.56	**77**		**4**	**0-1**
JMA	XII	31 21 24 41.8±.2	38.86N±.01	141.42E±.02	77±2	1.3		¶97xii5973
ISC		Poorly determined						

(229) Off east coast of Honshū.

JMA	**VII**	**01 00 55 25.9**±.2	**39.50N**±.01	**144.48E**±.02	**14**	**3.0**		¶97vii0006
ISC	**VII**	**03 02 17 40**±3.4	**37.5N**±.16	**142.2E**±.32	**20**		**15**	**1-3**
JMA	VII	03 02 17 40.1±.3	37.51N±.01	142.17E±.03	20	2.9		¶97vii0342
JMA	**VII**	**03 06 54 17.7**±.2	**39.38N**±.03	**144.87E**±.02	**0**	**2.9**		¶97vii0370
JMA	**VII**	**04 20 00 46.4**±.3	**39.88N**±.02	**144.81E**±.03	**34**	**2.9**		¶97vii0611
ISC	**VII**	**04 22 42 11**±3.3	**37.1N**±.16	**142.1E**±.30	**30**		**13**	**1-3**
JMA	VII	04 22 42 09.3±.3	37.09N±.02	142.18E±.03	30	2.9		¶97vii0627
ISC	**VII**	**06 02 51 59**±2.3	**39.5N**±.12	**145.0E**±.21	**40**		**25**	**2-5**
JMA	VII	06 02 52 01.7±.3	39.51N±.02	144.89E±.03	40	3.2		¶97vii0830
ISC	**VII**	**06 20 13 26.8**±.20	**33.59N**±.022	**141.68E**±.030	**50**±3.3*	**5.0b,4.8s**	**236**	**1-148**
EIDC	VII	06 20 13 21.1	33.4N	141.8E	0	4.6b,4.0L		¶97vii0929
JMA	VII	06 20 13 22.1±.4	33.47N±.02	142.06E±.03	54	4.8		
BJI	VII	06 20 13 23.5	33.54N	141.87E	34	4.9b,4.7s		
MOS	VII	06 20 13 25.1	33.5N	141.7E	33	5.3b,5.2s		
NEIC	VII	06 20 13 25.1	33.45N	141.66E	33	5.1b		
ISC	**VII**	**07 14 08 08**±1.0	**36.33N**±.043	**142.3E**±.11	**33**	3.8b	**47**	**1-75**
JMA	VII	07 14 08 05.9±.4	36.33N±.01	142.28E±.04	33	3.4		¶97vii1054
JMA	**VII**	**07 20 19 11.1**±.8	**36.25N**±.04	**142.19E**±.07	**74**			¶97vii1087
ISC	**VII**	**08 00 17 02**±2.7	**36.3N**±.15	**142.1E**±.25	**74**		**14**	**1-3**
JMA	VII	08 00 17 01.5±.4	36.29N±.02	142.14E±.04	74			¶97vii1106
ISC	**VII**	**08 09 02 58**±4.8	**33.2N**±.26	**142.6E**±.32	**71**±32		**26**	**2-62**
JMA	VII	08 09 03 02.9±.5	33.50N±.03	142.31E±.03	85			¶97vii1163
ISC	**VII**	**08 14 40 35.6**±.67	**34.39N**±.038	**141.62E**±.061	**39**±8.1	**3.9b**	**85**	**1-77**
JMA	VII	08 14 40 37.6±.4	34.36N±.02	141.32E±.03	61±5	4.0		¶97vii1202
BJI	VII	08 14 40 38.4	34.22N	141.25E	50			
NEIC	VII	08 14 40 38.5	34.35N	141.09E	53	4.2b		
EIDC	VII	08 14 40 40.0	34.3N	141.0E	48	3.7b,3.7L		
NEIC	Less reliable solution.							
ISC	**VII**	**08 20 35 11**±3.3	**37.6N**±.14	**142.3E**±.30	**14**		**15**	**1-3**
JMA	VII	08 20 35 11.9±.4	37.68N±.02	142.29E±.03	14	2.8		¶97vii1232
ISC	**VII**	**09 00 42 38**±1.8	**36.33N**±.085	**142.3E**±.19	**54**		**16**	**1-4**
JMA	VII	09 00 42 37.4±.3	36.32N±.01	142.26E±.03	54	3.0		¶97vii1259
ISC	**VII**	**09 00 55 53.9**±.49	**39.65N**±.034	**143.65E**±.065	**5**	**3.7b**	**60**	**1-81**
JMA	VII	09 00 55 57.3±.3	39.69N±.01	143.58E±.02	5±4	3.9		¶97vii1261
NEIC	VII	09 00 55 59.1	39.57N	143.49E	42			
EIDC	VII	09 00 56 00.0	39.6N	143.5E	31	3.5b,3.4L		

ISC	**VII**	**10 14 52 35**±1.1	**38.27N**±.071	**143.5E**±.12	**11**		**29**	**2-6**	**¶97vii4705**
JMA	VII	10 14 52 38.8±.2	38.30N±.01	143.44E±.03	11	3.2	**15**	**1-2**	**¶97vii1523**
JMA	**VII**	**10 14 55 18.1**±.4	**40.98N**±.02	**144.43E**±.04	**9**	**2.9**	**¶97vii1525**		
ISC	**VII**	**10 16 08 09**±3.5	**37.9N**±.75	**144.3E**±.39	**33**	**3.4b**	**5**	**48-88**	
EIDC	VII	10 16 08 05.1	37.8N	144.2E	0	3.3b	**¶97vii1534**		
ISC	**VII**	**11 02 17 51**±4.3	**37.3N**±.14	**142.2E**±.38	**10**		**7**	**1-2**	
JMA	VII	11 02 17 49.5±.3	37.27N±.01	142.38E±.02	10	2.8	**¶97vii1614**		
ISC	**VII**	**12 09 02 34**±1.4	**38.00N**±.059	**142.0E**±.17	**40**		**24**	**1-3**	
JMA	VII	12 09 02 33.8±.3	38.01N±.01	142.01E±.03	40±5	3.5	**¶97vii1797**		
ISC	**VII**	**12 20 37 03**±2.5	**37.80N**±.093	**142.5E**±.26	**29**		**19**	**1-3**	
JMA	VII	12 20 37 02.3±.3	37.81N±.01	142.49E±.03	29	3.1	**¶97vii1867**		
JMA	**VII**	**13 00 03 42.7**±.5	**33.95N**±.03	**142.42E**±.03	**24**	**3.3**	**¶97vii1893**		
ISC	**VII**	**13 19 12 08**±1.4	**39.24N**±.069	**145.1E**±.14	**52**		**42**	**3-6**	
JMA	VII	13 19 12 12.1±.2	39.30N±.01	144.93E±.02	52	3.4	**¶97vii2011**		
ISC	**VII**	**13 19 19 55**±1.9	**40.24N**±.099	**145.1E**±.21	**48**		**27**	**2-5**	
JMA	VII	13 19 19 57.5±.2	40.25N±.01	145.03E±.02	48	3.1	**¶97vii2012**		
ISC	**VII**	**13 19 24 11**±5.3	**36.0N**±.18	**144.9E**±.47	**53**		**23**	**3-5**	
JMA	VII	13 19 24 16.7±.4	36.29N±.02	144.36E±.03	53	3.3	**¶97vii2013**		
ISC	**VII**	**13 22 48 54**±1.2	**39.07N**±.073	**143.8E**±.13	**10**		**27**	**2-6**	
JMA	VII	13 22 48 56.9±.3	39.08N±.01	143.72E±.02	10±4	3.2	**¶97vii2032**		
ISC	**VII**	**14 00 04 16**±1.3	**39.04N**±.074	**143.8E**±.14	**3**		**26**	**2-5**	
JMA	VII	14 00 04 19.3±.3	39.07N±.01	143.76E±.02	3±4	3.3	**¶97vii2046**		
ISC	**VII**	**15 20 19 00**±2.7	**37.8N**±.10	**142.2E**±.30	**41**		**12**	**1-3**	
JMA	VII	15 20 19 00.0±.4	37.78N±.02	142.14E±.04	41	3.0	**¶97vii2346**		
ISC	**VII**	**15 21 32 37**±3.9	**33.67N**±.056	**142.05E**±.068	**10**±26	**3.9b**	**57**	**1-79**	
JMA	VII	15 21 32 39.9±.4	33.62N±.02	141.88E±.04	76		**¶97vii2356**		
NEIC	VII	15 21 32 41.6	33.61N	141.70E	33	4.3b			
EIDC	VII	15 21 32 42.9	33.6N	141.6E	24	3.6b,3.5L			
NEIC	Less reliable solution.								
JMA	**VII**	**16 01 28 10.8**±.7	**34.57N**±.04	**141.65E**±.04	**31**	**3.2**	**¶97vii2374**		
ISC	**VII**	**16 10 14 02**±7.1	**36.0N**±.24	**142.2E**±.65	**52**		**7**	**1-2**	
JMA	VII	16 10 14 03.3±.8	36.07N±.03	142.04E±.06	52	2.8	**¶97vii2420**		
ISC	**VII**	**16 19 25 02.8**±.42	**39.88N**±.029	**143.88E**±.057	**10**	**4.3b,4.1s**	**96**	**2-87**	
BJI	VII	16 19 25 02.5	39.98N	143.55E	5	4.6b,4.2s	**¶97vii2482**		
NEIC	VII	16 19 25 03.2	39.83N	143.83E	10	4.3b			
JMA	VII	16 19 25 04.7±.3	39.85N±.01	143.96E±.02	10±5	3.9			
EIDC	VII	16 19 25 08.1	39.8N	143.7E	30	3.8b,4.0s			
ISC	**VII**	**17 20 00 27.7**±.89	**39.51N**±.055	**143.8E**±.10	**0**		**36**	**2-5**	
JMA	VII	17 20 00 31.5±.1	39.57N±.01	143.71E±.02	0	3.1	**¶97vii2638**		
ISC	**VII**	**17 23 00 40**±3.5	**40.6N**±.17	**145.9E**±.39	**50**		**14**	**2-4**	
JMA	VII	17 23 00 42.7±.3	40.68N±.02	145.75E±.03	50	3.1	**¶97vii2658**		
ISC	**VII**	**18 04 36 05**±1.9	**37.79N**±.027	**142.58E**±.055	**6**±12	**4.1b**,3.7s	**112**	**1-146**	
JMA	VII	18 04 36 07.6±.2	37.81N±.01	142.37E±.03	38	4.1	**¶97vii2692**		
BJI	VII	18 04 36 08.2	37.75N	142.49E	36	4.6b			
NEIC	VII	18 04 36 08.9	37.66N	142.47E	38	4.2b			
EIDC	VII	18 04 36 10.5	37.6N	142.5E	39	3.8b,3.5L			
ISC	**VII**	**19 09 07 32**±1.1	**36.96N**±.079	**142.4E**±.11	**19**		**36**	**1-7**	
JMA	VII	19 09 07 33.2±.4	37.04N±.01	142.14E±.02	19±4	3.3	**¶97vii2850**		
ISC	**VII**	**19 15 18 28**±4.4	**33.6N**±.24	**142.7E**±.32	**51**		**20**	**2-6**	
JMA	VII	19 15 18 33.9±.9	33.69N±.03	142.11E±.07	51	3.1	**¶97vii2901**		
ISC	**VII**	**19 17 01 24.3**±.23	**33.63N**±.024	**141.71E**±.026	**42**±2.1*	**4.6b,4.3s**	**233**	**1-153**	
EIDC	VII	19 17 01 18.8	33.4N	141.8E	0	4.4b,3.7L	**¶97vii2918**		
JMA	VII	19 17 01 19.7±.5	33.42N±.03	142.04E±.04	66	4.7			
BJI	VII	19 17 01 21.4	33.43N	141.74E	34	4.9b,4.4s			
MOS	VII	19 17 01 22.8	33.5N	141.7E	33	5.1b			
NEIC	VII	19 17 01 22.9	33.44N	141.64E	33	4.9b			
ISC	**VII**	**21 03 51 51**±6.7	**40.3N**±.20	**145.6E**±.72	**54**		**14**	**3-4**	
JMA	VII	21 03 51 55.4±.5	40.35N±.02	145.36E±.06	54	2.9	**¶97vii3185**		
ISC	**VII**	**22 01 16 14**±3.7	**39.84N**±.095	**143.3E**±.35	**0**		**13**	**1-3**	
JMA	VII	22 01 16 15.5±.5	39.88N±.03	143.44E±.04	0	3.2	**¶97vii3309**		
ISC	**VII**	**24 08 20 48**±3.1	**37.6N**±.12	**142.3E**±.33	**35**		**14**	**1-3**	
JMA	VII	24 08 20 47.9±.5	37.64N±.02	142.26E±.04	35	2.9	**¶97vii3646**		
ISC	**VII**	**24 22 13 55**±7.5	**39.1N**±.18	**143.2E**±.67	**0**		**7**	**1-2**	
JMA	VII	24 22 13 55.3±.7	39.14N±.04	143.51E±.06	0	2.8	**¶97vii3730**		
ISC	**VII**	**26 02 40 04**±2.4	**36.44N**±.086	**142.4E**±.24	**15**		**17**	**1-3**	
JMA	VII	26 02 40 03.2±.6	36.34N±.03	142.44E±.04	15	3.1	**¶97vii3900**		
ISC	**VII**	**26 18 41 06.6**±.65	**36.82N**±.044	**142.08E**±.071	**29**	**3.7b**	**75**	**1-69**	
EIDC	VII	26 18 41 04.5	36.5N	142.0E	0	3.8b,3.4L	**¶97vii3993**		
JMA	VII	26 18 41 07.3±.3	36.84N±.01	141.87E±.03	29	3.8			
NEIC	VII	26 18 41 07.8	36.64N	141.98E	33				
NEIC	Less reliable solution.								
ISC	**VII**	**26 22 49 58.2**±.45	**39.51N**±.028	**143.92E**±.060	**6**	**4.0b**	**84**	**2-87**	
BJI	VII	26 22 49 59.4	39.91N	144.32E	39	4.2b	**¶97vii4021**		
EIDC	VII	26 22 50 00.2	39.5N	143.6E	0	3.6b,3.5L			
JMA	VII	26 22 50 01.5±.2	39.52N±.01	143.89E±.03	6	3.9			
NEIC	VII	26 22 50 02.6	39.53N	143.62E	33	3.9b			
NEIC	Less reliable solution.								
ISC	**VII**	**27 01 31 43**±2.2	**37.3N**±.12	**142.0E**±.21	**24**		**19**	**1-3**	
JMA	VII	27 01 31 42.8±.3	37.36N±.02	142.02E±.03	24	2.9	**¶97vii4039**		
ISC	**VII**	**27 04 37 00**±2.1	**39.5N**±.16	**143.9E**±.22	**13**		**16**	**2-4**	
JMA	VII	27 04 37 02.5±.2	39.53N±.01	143.87E±.02	13	3.0	**¶97vii4055**		
ISC	**VII**	**27 13 51 56**±2.3	**34.0N**±.14	**142.1E**±.17	**55**±37		**52**	**1-10**	
JMA	VII	27 13 51 58.6±.3	34.09N±.01	141.87E±.03	52	3.4	**¶97vii4117**		
ISC	**VII**	**27 16 42 17.1**±.41	**34.35N**±.035	**141.44E**±.038	**70**	**4.2b**	**161**	**0-148**	
EIDC	VII	27 16 42 08.3	33.9N	141.7E	0	4.0b,3.6L	**¶97vii4137**		
JMA	VII	27 16 42 09.8±.6	33.93N±.03	141.89E±.05	70				
BJI	VII	27 16 42 12.3	33.97N	141.40E	36	4.5b,4.4s			
NEIC	VII	27 16 42 13.4	33.92N	141.45E	40	4.4b			
MOS	VII	27 16 42 13.6	34.1N	141.5E	44	5.0b			
ISC	**VII**	**27 20 10 45**±1.8	**34.3N**±.13	**141.4E**±.12	**74**±16		**57**	**1-10**	
JMA	VII	27 20 10 50.0±.4	34.51N±.02	140.95E±.03	56±4	3.5	**¶97vii4157**		
ISC	**VII**	**27 22 02 41**±2.3	**34.0N**±.13	**141.9E**±.17	**50**		**42**	**1-10**	
JMA	VII	27 22 02 41.5±.4	34.02N±.02	141.84E±.04	50	3.3	**¶97vii4170**		
JMA	**VII**	**28 00 02 44.3**±.4	**39.49N**±.03	**143.87E**±.03	**17**	**2.9**	**¶97vii4182**		
JMA	**VII**	**28 00 10 04.8**±.5	**39.57N**±.03	**143.86E**±.05	**20**	**2.9**	**¶97vii4185**		
ISC	**VII**	**28 00 37 43**±5.4	**40.1N**±.16	**143.3E**±.49	**0**		**10**	**1-2**	
JMA	VII	28 00 37 45.6±.2	40.10N±.01	143.34E±.02	0	3.0	**¶97vii4190**		
ISC	**VII**	**29 00 57 02**±1.7	**33.38N**±.098	**141.2E**±.12	**50**±20	**4.0b**	**62**	**1-57**	
JMA	VII	29 00 57 05.5±.2	33.50N±.01	140.82E±.01	65±4		**¶97vii4354**		
EIDC	VII	29 00 57 07.1	33.5N	140.7E	72	3.7b,3.6L			
NEIC	VII	29 00 57 07.7	33.52N	140.59E	100				
NEIC	Less reliable solution.								
JMA	**VII**	**29 02 42 42.3**±.3	**35.85N**±.02	**142.66E**±.02	**32**	**3.0**	**¶97vii4370**		
JMA	**VII**	**29 23 31 38.6**±.2	**39.74N**±.02	**143.60E**±.02	**5**	**2.9**	**¶97vii4502**		
JMA	**VII**	**30 05 27 30.4**±.8	**33.75N**±.06	**141.13E**±.04	**48**	**3.1**	**¶97vii4536**		
ISC	**VII**	**31 02 13 11**±1.0	**40.29N**±.064	**143.7E**±.13	**0**		**28**	**1-4**	
JMA	VII	31 02 13 14.0±.2	40.29N±.01	143.65E±.03	0	3.3	**¶97vii4665**		
ISC	**VII**	**31 05 44 33.4**±.88	**39.36N**±.055	**143.7E**±.10	**7**		**36**	**1-5**	
JMA	VII	31 05 44 36.6±.3	39.38N±.01	143.65E±.02	7±4	3.6	**¶97vii4682**		
ISC	**VII**	**31 08 26 53**±3.5	**33.6N**±.20	**142.2E**±.25	**54**		**23**	**1-6**	
JMA	VII	31 08 26 57.3±.4	33.73N±.02	141.75E±.04	54	3.0	**¶97vii4705**		
ISC	**VII**	**31 08 44 08**±3.4	**37.2N**±.14	**142.3E**±.30	**17**		**15**	**1-2**	
JMA	VII	31 08 44 07.4±.5	37.25N±.02	142.35E±.04	17	2.8	**¶97vii4707**		
ISC	**VIII**	**01 14 23 34.1**±.94	**37.43N**±.040	**142.0E**±.11	**31**		**36**	**1-4**	
JMA	VIII	01 14 23 32.8±.3	37.39N±.01	142.02E±.03	31	3.1	**¶97viii0076**		
ISC	**VIII**	**02 14 55 05**±4.8	**33.1N**±.26	**141.2E**±.33	**56**		**18**	**1-4**	
JMA	VIII	02 14 55 06.8±.5	33.24N±.02	141.03E±.04	56	3.0	**¶97viii0227**		
ISC	**VIII**	**02 15 04 22.4**±.80	**39.32N**±.050	**143.67E**±.094	**10**		**49**	**1-6**	
JMA	VIII	02 15 04 26.1±.3	39.38N±.01	143.55E±.01	10±4	3.6	**¶97viii0228**		
ISC	**VIII**	**02 19 18 28**±5.4	**40.0N**±.15	**143.4E**±.49	**0**		**11**	**1-2**	
JMA	VIII	02 19 18 30.2±.5	40.01N±.02	143.47E±.05	0	2.9	**¶97viii0251**		
ISC	**VIII**	**03 05 57 28**±2.3	**33.8N**±.14	**141.5E**±.18	**81**±27		**28**	**1-6**	
JMA	VIII	03 05 57 30.2±.3	33.89N±.01	141.25E±.02	69±4		**¶97viii0312**		
ISC	**VIII**	**04 08 23 39**±4.3	**37.8N**±.15	**143.0E**±.41	**5**		**13**	**1-3**	
JMA	VIII	04 08 23 38.3±.4	37.78N±.02	143.08E±.04	5	3.0	**¶97viii0477**		
JMA	**VIII**	**04 10 18 41.1**±.8	**39.94N**±.05	**143.78E**±.06	**0**	**2.9**	**¶97viii0490**		
ISC	**VIII**	**04 14 57 19**±14	**34.1N**±.85	**143.3E**±.69	**6**		**16**	**3-6**	
JMA	VIII	04 14 57 19.6±.3	34.25N±.02	143.16E±.02	6	3.4	**¶97viii0517**		
JMA	**VIII**	**05 14 15 55.6**±.6	**40.26N**±.05	**144.48E**±.05	**14**	**2.9**	**¶97viii0678**		
ISC	**VIII**	**07 00 13 00**±3.7	**33.2N**±.20	**141.2E**±.28	**38**±45	3.6b	**23**	**1-57**	
JMA	VIII	07 00 13 02.1±.3	33.30N±.02	141.00E±.03	53	2.9	**¶97viii0859**		
EIDC	VIII	07 00 13 12.2	30.9N	142.2E	0	3.5b,3.7L			
ISC	**VIII**	**08 01 27 15**±3.5	**40.8N**±.13	**146.3E**±.37	**55**		**16**	**3-4**	
JMA	VIII	08 01 27 19.2±.5	40.91N±.02	146.13E±.05	55	3.1	**¶97viii1035**		
ISC	**VIII**	**08 01 54 42**±2.5	**40.84N**±.092	**146.2E**±.26	**51**		**26**	**2-5**	
JMA	VIII	08 01 54 45.3±.3	40.90N±.01	146.08E±.03	51	3.3	**¶97viii1040**		
ISC	**VIII**	**09 03 17 40**±1.4	**40.33N**±.051	**145.9E**±.16	**59**		**42**	**3-7**	
JMA	VIII	09 03 17 43.9±.2	40.37N±.01	145.75E±.02	59	3.8	**¶97viii1195**		
JMA	**VIII**	**09 13 52 46.3**±.4	**39.12N**±.02	**144.35E**±.03	**9**	**2.8**	**¶97viii1259**		
ISC	**VIII**	**11 05 59 56**±7.7	**40.9N**±.25	**143.2E**±.72	**13**		**11**	**1-3**	
JMA	VIII	11 05 59 58.2±.4	40.93N±.02	143.30E±.03	13	3.0	**¶97viii1510**		
ISC	**VIII**	**11 10 24 07**±9.1	**37.8N**±.18	**143.8E**±.85	**59**		**14**	**2-4**	
JMA	VIII	11 10 24 09.6±.4	37.86N±.01	143.50E±.04	59	2.9	**¶97viii1546**		
ISC	**VIII**	**11 16 02 45**±2.1	**34.0N**±.13	**141.6E**±.16	**57**		**26**	**1-6**	
JMA	VIII	11 16 02 46.3±.6	34.08N±.02	141.43E±.05	57	3.1	**¶97viii1581**		
JMA	**VIII**	**11 21 43 54.4**±.7	**36.91N**±.03	**142.29E**±.06	**50**	**2.8**	**¶97viii1633**		
JMA	**VIII**	**12 05 11 04.7**±.7	**39.34N**±.04	**144.02E**±.06	**0**	**3.0**	**¶97viii1683**		
JMA	**VIII**	**12 11 05 45.7**±.8	**40.01N**±.07	**144.89E**±.07	**2**	**2.8**	**¶97viii1728**		
ISC	**VIII**	**12 17 25 01.6**±.99	**38.97N**±.049	**144.8E**±.11	**43**		**50**	**2-7**	
JMA	VIII	12 17 25 05.3±.2	39.05N±.01	144.56E±.02	43	3.6	**¶97viii1783**		
ISC	**VIII**	**14 19 28 05**±9.8	**33.4N**±.45	**141.8E**±.95	**75**		**6**	**1-4**	
JMA	VIII	14 19 28 07.2±.7	33.56N±.03	141.49E±.08	75		**¶97viii2104**		
ISC	**VIII**	**15 07 10 30**±2.6	**37.4N**±.10	**142.4E**±.25	**21**		**20**	**1-3**	
JMA	VIII	15 07 10 29.8±.4	37.44N±.02	142.33E±.03	21	3.2	**¶97viii2174**		
ISC	**VIII**	**16 12 08 33.9**±.49	**37.91N**±.029	**142.07E**±.063	**53**±5.1	**3.8b**	**100**	**1-146**	
BJI	VIII	16 12 08 30.9	37.64N	141.26E	5	4.6b	**¶97viii2367**		
NEIC	VIII	16 12 08 33.2	37.87N	142.04E	47				
JMA	VIII	16 12 08 33.7±.2	37.88N±.01	141.96E±.02	43±5	3.9			
EIDC	VIII	16 12 08 35.2	37.8N	142.0E	50	3.5b			
EIDC	**VIII**	**17 03 53 36.5**	**35.0N**	**142.9E**	**0**	3.3b,3.5L		**4-59**	
									¶97viii2481
JMA	**VIII**	**18 11 22 18.1**±.5	**40.29N**±.04	**143.88E**±.04	**0**	**2.9**	**¶97viii2669**		
ISC	**VIII**	**19 11 56 58**±3.6	**37.0N**±.17	**142.1E**±.31	**36**		**15**	**1-3**	
JMA	VIII	19 11 56 57.8±.3	37.05N±.01	142.11E±.02	36	2.8	**¶97viii2804**		
ISC	**VIII**	**19 18 05 39**±1.5	**37.09N**±.066	**142.1E**±.16	**21**		**28**	**1-4**	
JMA	VIII	19 18 05 36.5±.4	37.02N±.01	142.23E±.03	21	3.1	**¶97viii2848**		
JMA	**VIII**	**20 18 15 15.5**±.5	**34.46N**±.08	**141.11E**±.03	**60**	**1.7**	**¶97viii2999**		
ISC	**VIII**	**21 03 15 56**±2.1	**37.29N**±.086	**142.1E**±.20	**5**		**18**	**1-3**	
JMA	VIII	21 03 15 54.2±.4	37.23N±.02	142.21E±.03	5	3.0	**¶97viii3045**		
ISC	**VIII**	**21 06 26 34**±4.5	**37.0N**±.20	**142.4E**±.39	**37**		**13**	**1-3**	
JMA	VIII	21 06 26 35.8±.3	37.13N±.01	142.19E±.03	37	2.9	**¶97viii3062**		
ISC	**VIII**	**22 04 48 21.5**±.81	**39.99N**±.050	**143.7E**±.11	**5**		**38**	**1-5**	
JMA	VIII	22 04 48 24.5±.2	40.01N±.01	143.63E±.02	5	3.6	**¶97viii3178**		
JMA	**VIII**	**23 16 31 52.5**±.3	**39.57N**±.03	**144.58E**±.03	**0**	**2.8**	**¶97viii3424**		
ISC	**VIII**	**24 17 17 34.1**±.98	**39.56N**±.058	**143.6E**±.12	**6**		**29**	**1-5**	
JMA	VIII	24 17 17 37.3±.4	39.59N±.01	143.51E±.02	6±4	3.2	**¶97viii3567**		
JMA	**VIII**	**24 17 57 52.5**±.5	**39.64N**±.03	**143.73E**±.04	**0**	**2.8**	**¶97viii3573**		
JMA	**VIII**	**25 20 52 36.5**±.3	**39.70N**±.03	**144.56E**±.03	**8**	**2.9**	**¶97viii3741**		
ISC	**VIII**	**26 17 41 24**±3.5	**37.2N**±.17	**142.0E**±.32	**30**		**14**	**1-2**	
JMA	VIII	26 17 41 23.1±.3	37.26N±.02	142.07E±.03	30	2.8	**¶97viii3883**		
ISC	**VIII**	**26 20 33 46.4**±.47	**40.24N**±.028	**144.02E**±.064	**11**	**4.0b**	**81**	**2-87**	
EIDC	VIII	26 20 33 48.3	40.4N	143.9E	0	3.7b,3.6L	**¶97viii3901**		
JMA	VIII	26 20 33 48.7±.1	40.24N±.01	144.08E±.02	11	3.8			
BJI	VIII	26 20 33 49.7	40.38N	143.48E	14	4.5b,4.2s			
NEIC	VIII	26 20 33 51.2	40.30N	143.76E	33				
ISC	**VIII**	**26 21 11 53**±4.5	**36.8N**±.22	**142.4E**±.36	**6**		**15**	**1-3**	
JMA	VIII	26 21 11 52.9±.4	36.82N±.02	142.42E±.03	6±4	2.9	**¶97viii3905**		
ISC	**VIII**	**27 00 16 24**±1.3	**39.60N**±.065	**144.7E**±.14	**36**		**39**	**2-6**	
JMA	VIII	27 00 16 27.6±.1	39.64N±.01	144.53E±.02	36	3.4	**¶97viii3921**		
ISC	**VIII**	**27 02 33 45.1**±.40	**40.25N**±.032	**143.99E**±.059	**18**	**4.0b**	**76**	**2-146**	
EIDC	VIII	27 02 33 44.3	40.2N	144.0E	0	4.0b,3.5L	**¶97viii3927**		
JMA	VIII	27 02 33 47.3±.1	40.27N±.01	143.99E±.02	18	3.9			
BJI	VIII	27 02 33 47.4	40.20N	143.80E	33	4.6b			
NEIC	VIII	27 02 33 47.4	40.18N	143.88E	33	4.2b			
JMA	**VIII**	**27 03 33 18.6**±.6	**40.38N**±.05	**144.04E**±.05	**17**	**2.8**	**¶97viii3932**		
JMA	**VIII**	**27 06 16 13.8**±.4	**40.31N**±.03	**143.82E**±.03	**0**	**2.8**	**¶97viii3947**		
JMA	**VIII**	**27 13 29 25.6**±.3	**38.43N**±.01	**144.20E**±.03	**15**	**2.8**	**¶97viii3988**		
ISC	**VIII**	**27 14 34 22**±1.0	**40.28N**±.067	**144.0E**±.13	**11**		**32**	**2-4**	
JMA	VIII	27 14 34 24.9±.3	40.28N±.01	143.98E±.02	11±5	3.0	**¶97viii4003**		
ISC	**VIII**	**27 22 08 20**±2.7	**40.3N**±.12	**144.0E**±.33	**1**		**19**	**2-4**	
JMA	VIII	27 22 08 23.2±.5	40.30N±.02	143.97E±.03	1±5	3.0	**¶97viii4045**		
ISC	**VIII**	**27 22 27 32**±1.4	**40.28N**±.079	**144.0E**±.17	**5**		**22**	**2-4**	
JMA	VIII	27 22 27 35.8±.4	40.30N±.01	143.97E±.03	5±5	3.0	**¶97viii4047**		
ISC	**VIII**	**28 03 21 12.8**±.39	**37.02N**±.025	**143.49E**±.045	**44**	**4.1b**	**143**	**2-145**	
JMA	VIII	28 03 21 12.4±.2	37.03N±.01	143.46E±.02	44	4.3	**¶97viii4079**		
NEIC	VIII	28 03 21 17.0	36.86N	143.18E	80	4.0b			
EIDC	VIII	28 03 21 19.2	37.0N	143.0E	77	3.8b			
ISC	**VIII**	**28 12 58 10**±2.3	**37.67N**±.093	**142.3E**±.24	**24**		**21**	**1-3**	
JMA	VIII	28 12 58 09.8±.3	37.66N±.01	142.21E±.03	24	3.1	**¶97viii4136**		
ISC	**VIII**	**28 14 26 49**±1.5	**37.22N**±.072	**142.0E**±.14	**9**		**20**	**1-3**	
JMA	VIII	28 14 26 48.2±.4	37.21N±.01	142.10E±.02	9±4	2.9	**¶97viii4144**		
ISC	**VIII**	**28 14 35 07**±2.6	**37.5N**±.11	**142.1E**±.23	**14**		**14**	**1-3**	
JMA	VIII	28 14 35 06.5±.4	37.47N±.01	142.11E±.03	14±5	2.8	**¶97viii4145**		
JMA	**VIII**	**28 15 51 13.9**±.6	**39.40N**±.03	**144.41E**±.06	**1**	**2.8**	**¶97viii4151**		
JMA	**VIII**	**28 21 50 00.1**±.76	**40.24N**±.042	**144.06E**±.098	**16**		**43**	**2-6**	
JMA	VIII	28 21 50 03.2±.1	40.27N±.01	143.99E±.02	16	3.4	**¶97viii4187**		
ISC	**VIII**	**28 22 14 34**±1.2	**40.28N**±.077	**144.0E**±.13	**17**		**28**	**2-6**	
JMA	VIII	28 22 14 36.6±.2	40.28N±.01	143.94E±.02	17	3.3	**¶97viii4189**		
ISC	**VIII**	**28 22 25 40**±1.6	**40.3N**±.12	**143.9E**±.20	**4**		**18**	**2-4**	
JMA	VIII	28 22 25 42.9±.3	40.32N±.02	143.88E±.03	4	2.8	**¶97viii4192**		

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
JMA	**VIII 29 11 50 09.2**±.4	**37.49N**±.02	**144.21E**±.03	**40**	**2.9**	**¶97viii4298**	
ISC	**VIII 29 18 40 07**±1.4	**37.21N**±.067	**142.2E**±.14	**5**		**26**	**1-3**
JMA	VIII 29 18 40 05.1±.4	37.18N±.01	142.27E±.02	5±4	3.0	¶97viii4361	
ISC	**VIII 30 03 36 08**±1.7	**40.24N**±.029	**143.81E**±.058	**3**±10	**4.5b,5.0s**	**125**	**2-89**
BJI	VIII 30 03 36 10.8	40.24N	143.61E	27	4.8b,4.5s	¶97viii4419	
JMA	VIII 30 03 36 11.1±.5	40.23N±.01	143.90E±.02	4±5	4.3		
NEIC	VIII 30 03 36 11.9	40.18N	143.67E	27	5.0b		
EIDC	VIII 30 03 36 13.1	40.2N	143.7E	23	4.1b,3.9L		
MOS	VIII 30 03 36 14.9	40.2N	143.5E	47	5.2b		
ISC	**VIII 31 12 26 32**±2.6	**33.7N**±.15	**141.3E**±.23	**47**±49		**24**	**1-6**
JMA	VIII 31 12 26 33.1±.4	33.75N±.02	141.12E±.03	52	2.9	¶97viii4650	
ISC	**VIII 31 23 38 02**±1.8	**37.64N**±.050	**143.2E**±.19	**13**		**30**	**2-6**
JMA	VIII 31 23 38 03.3±.3	37.65N±.01	143.00E±.03	13	3.3	¶97viii4727	
ISC	**VIII 31 23 39 57**±5.3	**37.1N**±.17	**142.2E**±.36	**15**±25		**16**	**1-3**
JMA	VIII 31 23 39 58.9±.4	37.19N±.02	142.13E±.03	44	3.0	¶97viii4728	
ISC	**IX 02 06 07 03**±2.6	**40.51N**±.077	**145.6E**±.29	**53**		**29**	**2-5**
JMA	IX 02 06 07 07.7±.3	40.59N±.01	145.36E±.03	53	3.4	¶97ix0228	
JMA	**IX 02 12 35 34.1**±.4	**33.94N**±.02	**142.73E**±.02	**19**	**3.3**	**¶97ix0277**	
ISC	**IX 02 14 53 07.1**±.41	**34.52N**±.030	**141.75E**±.041	**47**	**4.2b**,4.2s	**132**	**1-148**
EIDC	IX 02 14 53 04.8	34.4N	141.4E	0	4.1b,3.4L	¶97ix0288	
JMA	IX 02 14 53 05.5±.7	34.34N±.03	141.74E±.05	47	3.9		
BJI	IX 02 14 53 06.9	34.59N	140.95E	5	4.6b,4.2s		
NEIC	IX 02 14 53 08.1	34.34N	141.36E	33	4.4b		
ISC	**IX 03 03 07 34**±1.0	**39.69N**±.061	**143.5E**±.12	**0**		**27**	**1-5**
JMA	IX 03 03 07 37.5±.2	39.70N±.01	143.54E±.02	0	3.3	¶97ix0369	
ISC	**IX 03 17 04 10**±4.6	**39.6N**±.12	**143.4E**±.44	**0**		**13**	**1-3**
JMA	IX 03 17 04 13.1±.6	39.62N±.02	143.39E±.05	0	3.0	¶97ix0450	
JMA	**IX 03 22 20 43.1**±.5	**34.35N**±.03	**141.81E**±.05	**32**	**2.9**	**¶97ix0501**	
ISC	**IX 03 23 43 46**±2.6	**37.7N**±.11	**142.2E**±.29	**24**		**15**	**1-3**
JMA	IX 03 23 43 45.7±.3	37.71N±.01	142.23E±.03	24	3.0	¶97ix0514	
ISC	**IX 04 05 24 01**±10	**37.6N**±.22	**142.2E**±.83	**14**		**6**	**1-1**
JMA	IX 04 05 24 01.5±.4	37.62N±.01	142.09E±.03	14	2.9	¶97ix0549	
ISC	**IX 04 05 45 05**±3.9	**34.3N**±.13	**141.8E**±.36	**26**		**11**	**1-3**
JMA	IX 04 05 45 04.5±.6	34.32N±.03	141.82E±.04	26±5	2.8	¶97ix0552	
ISC	**IX 04 14 42 06**±6.2	**38.2N**±.10	**143.9E**±.61	**32**		**16**	**2-4**
JMA	IX 04 14 42 10.2±.5	38.26N±.02	143.62E±.05	32	3.0	¶97ix0605	
JMA	**IX 04 16 52 20.2**±.5	**39.77N**±.03	**144.69E**±.04	**10**	**2.8**	**¶97ix0610**	
ISC	**IX 04 17 03 36**±3.5	**37.7N**±.11	**142.9E**±.34	**21**		**20**	**1-3**
JMA	IX 04 17 03 35.3±.3	37.74N±.01	142.92E±.03	21	3.1	¶97ix0612	
ISC	**IX 04 23 00 23.4**±.53	**34.45N**±.046	**141.68E**±.059	**34**	**3.7b**	**51**	**1-148**
JMA	IX 04 23 00 21.7±.4	34.36N±.02	141.71E±.03	34±4	3.5	¶97ix0648	
NEIC	IX 04 23 00 23.7	34.34N	141.56E	33	4.3b		
EIDC	IX 04 23 00 23.8	34.4N	141.5E	20	3.6b,3.6L		
NEIC	Less reliable solution.						
ISC	**IX 05 04 25 41.0**±.90	**37.16N**±.039	**142.36E**±.094	**34**±11	**3.7b**	**62**	**1-69**
EIDC	IX 05 04 25 37.7	37.1N	142.5E	0	3.7b,3.5L	¶97ix0692	
JMA	IX 05 04 25 38.5±.3	37.17N±.01	142.23E±.02	4±3	3.7		
NEIC	IX 05 04 25 40.4	37.09N	142.39E	33			
NEIC	Less reliable solution.						
ISC	**IX 05 04 32 27**±4.2	**37.2N**±.20	**142.2E**±.34	**14**		**12**	**1-2**
JMA	IX 05 04 32 23.8±.4	37.08N±.02	142.33E±.04	14	2.9	¶97ix0693	
ISC	**IX 05 04 44 59**±3.5	**37.0N**±.18	**142.4E**±.30	**54**		**18**	**1-3**
JMA	IX 05 04 45 00.0±.4	37.09N±.02	142.30E±.03	54	3.1	¶97ix0696	
ISC	**IX 05 04 59 38**±2.3	**37.2N**±.12	**142.1E**±.20	**3**		**15**	**1-2**
JMA	IX 05 04 59 36.1±.6	37.17N±.02	142.26E±.04	3±5	3.0	¶97ix0698	
ISC	**IX 05 10 43 49**±4.6	**34.2N**±.13	**141.9E**±.28	**18**±25		**21**	**1-4**
JMA	IX 05 10 43 49.7±.6	34.20N±.03	141.87E±.05	58	3.0	¶97ix0736	
ISC	**IX 05 11 33 37**±3.5	**37.88N**±.034	**142.65E**±.077	**9**±25	**3.6b**	**65**	**1-76**
EIDC	IX 05 11 33 37.0	37.8N	142.6E	0	3.5b,2.8L	¶97ix0742	
JMA	IX 05 11 33 37.5±.2	37.85N±.01	142.46E±.02	13	3.5		
NEIC	IX 05 11 33 39.8	37.76N	142.63E	33			
NEIC	Less reliable solution.						
ISC	**IX 05 15 03 06**±1.6	**39.6N**±.11	**143.5E**±.14	**5**		**21**	**1-4**
JMA	IX 05 15 03 09.8±.2	39.61N±.01	143.46E±.02	5±3	3.1	¶97ix0759	
ISC	**IX 05 16 20 58**±1.4	**40.12N**±.029	**143.57E**±.068	**18**±12	**3.7b**	**82**	**1-87**
EIDC	IX 05 16 20 57.2	40.2N	143.4E	0	3.7b,3.5L	¶97ix0769	
JMA	IX 05 16 20 58.6±.4	40.13N±.01	143.58E±.02	1±4	3.9		
BJI	IX 05 16 20 59.8	39.85N	143.28E	35	4.2b		
NEIC	IX 05 16 21 00.1	40.16N	143.32E	33	3.8b		
ISC	**IX 05 17 09 56.5**±.66	**40.69N**±.043	**143.66E**±.095	**17**		**38**	**1-5**
JMA	IX 05 17 09 59.2±.2	40.72N±.01	143.60E±.01	17±4	3.1	¶97ix0773	
ISC	**IX 05 23 10 41**±1.5	**34.02N**±.083	**141.5E**±.17	**62**	3.5b	**17**	**1-54**
JMA	IX 05 23 10 37.3±.5	33.86N±.02	141.78E±.04	62		¶97ix0808	
ISC	**IX 06 06 04 44**±2.2	**37.2N**±.11	**142.2E**±.20	**7**		**20**	**1-3**
JMA	IX 06 06 04 42.7±.2	37.21N±.01	142.29E±.02	7±3	3.2	¶97ix0867	
ISC	**IX 06 10 28 16**±2.6	**33.7N**±.14	**141.6E**±.19	**40**±61		**37**	**1-6**
JMA	IX 06 10 28 16.7±.4	33.72N±.02	141.45E±.03	67		¶97ix0901	
ISC	**IX 06 15 37 04.0**±.54	**34.28N**±.037	**141.84E**±.050	**57**	**4.1b,4.0s**	**118**	**1-148**
EIDC	IX 06 15 37 01.0	34.1N	141.6E	0	4.0b,3.4L	¶97ix0938	
BJI	IX 06 15 37 03.2	34.25N	141.23E	15	4.6b,4.4s		
JMA	IX 06 15 37 03.8±.3	34.17N±.01	141.71E±.03	57±5	3.9		
NEIC	IX 06 15 37 04.4	34.12N	141.50E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**IX 07 02 56 07**±4.8	**40.0N**±.20	**145.5E**±.50	**40**		**18**	**3-4**
JMA	IX 07 02 56 10.3±.4	40.02N±.02	145.44E±.04	40	2.9	¶97ix1004	
JMA	**IX 07 07 47 39.6**±.5	**40.33N**±.03	**144.10E**±.04	**3**	**2.9**	**¶97ix1026**	
ISC	**IX 07 08 36 53**±13	**36.1N**±.68	**143.2E**±.97	**54**		**16**	**2-4**
JMA	IX 07 08 36 57.8±.4	36.35N±.02	142.75E±.03	54	3.1	¶97ix1031	
ISC	**IX 07 09 53 50.9**±.69	**37.06N**±.043	**142.14E**±.074	**5**		**62**	**1-7**
JMA	IX 07 09 53 51.0±.4	37.06N±.01	142.07E±.03	5±4	3.7	¶97ix1043	
ISC	**IX 07 14 46 41**±4.2	**34.2N**±.24	**141.9E**±.26	**39**		**35**	**1-10**
JMA	IX 07 14 46 42.7±.8	34.38N±.04	141.73E±.06	39	3.0	¶97ix1087	
ISC	**IX 07 22 53 10**±3.4	**34.5N**±.20	**141.7E**±.23	**27**		**21**	**1-5**
JMA	IX 07 22 53 10.6±.6	34.61N±.03	141.56E±.04	27±5	2.9	¶97ix1136	
ISC	**IX 08 09 02 39**±3.4	**37.5N**±.15	**142.4E**±.33	**18**		**16**	**1-3**
JMA	IX 08 09 02 39.0±.3	37.55N±.01	142.31E±.03	18	2.9	¶97ix1200	
ISC	**IX 08 10 32 31**±1.0	**33.32N**±.059	**141.37E**±.090	**60**±15	**4.2b**	**58**	**1-57**
EIDC	IX 08 10 32 32.5	32.7N	138.4E	0	4.0b,3.4L	¶97ix1209	
JMA	IX 08 10 32 33.3±.3	33.38N±.02	141.10E±.03	57	3.5		
ISC	**IX 08 21 24 02**±3.6	**37.5N**±.10	**143.3E**±.37	**61**		**18**	**2-6**
JMA	IX 08 21 24 04.1±.3	37.59N±.01	143.03E±.03	61		¶97ix1283	
ISC	**IX 11 17 12 18**±1.0	**39.98N**±.082	**143.0E**±.12	**0**		**16**	**1-4**
JMA	IX 11 17 12 21.7±.2	40.00N±.02	142.99E±.03	0	2.8	¶97ix1711	
ISC	**IX 11 23 56 35**±1.2	**40.72N**±.049	**145.4E**±.15	**41**		**36**	**2-7**
JMA	IX 11 23 56 38.8±.2	40.79N±.01	145.25E±.02	41	3.7	¶97ix1748	
ISC	**IX 13 05 28 13**±6.7	**37.9N**±.16	**142.3E**±.49	**22**±32		**12**	**1-2**
JMA	IX 13 05 28 11.4±.5	37.86N±.02	142.44E±.04	19	2.9	¶97ix1924	
ISC	**IX 13 17 17 38**±1.6	**39.7N**±.12	**143.6E**±.17	**2**		**17**	**1-4**
JMA	IX 13 17 17 41.8±.3	39.74N±.02	143.52E±.02	2±4	2.8	¶97ix1999	
ISC	**IX 13 18 14 34**±2.0	**34.3N**±.11	**141.6E**±.17	**24**		**24**	**1-6**
JMA	IX 13 18 14 33.2±.5	34.33N±.03	141.63E±.05	24	3.1	¶97ix2009	
ISC	**IX 14 08 09 15**±2.0	**38.0N**±.11	**145.1E**±.17	**51**		**36**	**3-6**
JMA	IX 14 08 09 18.9±.3	38.06N±.02	144.89E±.03	51	3.5	¶97ix2091	
ISC	**IX 14 15 22 59**±1.9	**33.4N**±.10	**141.2E**±.16	**52**±24	3.8b	**33**	**1-57**
JMA	IX 14 15 23 00.5±.3	33.44N±.02	141.00E±.03	64		¶97ix2140	
EIDC	IX 14 15 23 00.7	32.8N	138.7E	0	3.7b,3.3L		
ISC	**IX 14 16 45 38**±2.6	**33.93N**±.069	**141.9E**±.10	**17**±19	**3.7b**	**68**	**1-58**
JMA	IX 14 16 45 39.0±.3	33.89N±.02	141.92E±.03	64		¶97ix2148	
NEIC	IX 14 16 45 41.6	33.87N	141.56E	33			
EIDC	IX 14 16 45 45.0	33.9N	141.4E	42	3.5b,3.4L		
NEIC	Single network solution.						
ISC	**IX 15 01 07 51.3**±.33	**34.43N**±.026	**141.51E**±.036	**63**±3.9*	**4.4b**	**157**	**0-92**
EIDC	IX 15 01 07 46.0	34.2N	141.6E	0	4.3b,3.5s	¶97ix2182	
BJI	IX 15 01 07 49.2	34.20N	141.40E	33	4.7b		
NEIC	IX 15 01 07 49.2	34.16N	141.44E	33	4.9b		
JMA	IX 15 01 07 49.8±.3	34.29N±.01	141.56E±.03	68±4	4.3		
MOS	IX 15 01 07 50.9	34.4N	141.6E	33	5.0b		
ISC	**IX 15 01 14 55.6**±.64	**34.30N**±.033	**141.79E**±.052	**34**±6.5	**4.3b**	**138**	**1-162**
NEIC	IX 15 01 14 56.4	34.23N	141.45E	33	4.7b	¶97ix2183	
JMA	IX 15 01 14 58.2±.3	34.30N±.01	141.50E±.03	65±4	4.1		
EIDC	IX 15 01 15 00.1	34.3N	141.4E	48	4.0b,3.8L		
ISC	**IX 17 07 06 42**±2.2	**33.4N**±.13	**141.2E**±.19	**54**±28	3.9b	**24**	**1-57**
JMA	IX 17 07 06 45.6±.4	33.53N±.02	140.90E±.04	44	3.5	¶97ix2480	
EIDC	IX 17 07 06 58.6	33.8N	139.2E	197	3.3b,3.4L		
ISC	**IX 17 20 33 01**±4.6	**37.2N**±.15	**142.1E**±.32	**19**±23		**14**	**1-3**
JMA	IX 17 20 32 58.7±.5	37.11N±.02	142.27E±.05	17	2.8	¶97ix2552	
ISC	**IX 19 01 51 48**±3.9	**37.5N**±.19	**142.1E**±.30	**0**		**10**	**1-2**
JMA	IX 19 01 51 47.3±.4	37.46N±.02	142.21E±.03	0	3.0	¶97ix2736	
ISC	**IX 19 11 15 21**±12	**34.5N**±.53	**141.7E**±.86	**37**		**12**	**1-3**
JMA	IX 19 11 15 24.1±.5	34.70N±.02	141.45E±.04	37±3	2.8	¶97ix2785	
ISC	**IX 19 14 22 11**±10	**34.4N**±.51	**141.7E**±.70	**52**		**14**	**1-4**
JMA	IX 19 14 22 15.0±.5	34.62N±.05	141.31E±.04	52	2.9	¶97ix2799	
ISC	**IX 20 06 09 25**±1.9	**37.79N**±.083	**142.2E**±.21	**31**		**19**	**1-3**
JMA	IX 20 06 09 24.6±.3	37.79N±.01	142.16E±.03	31	3.1	¶97ix2908	
ISC	**IX 20 15 55 51**±2.5	**37.4N**±.11	**142.3E**±.23	**18**		**20**	**1-3**
JMA	IX 20 15 55 50.6±.3	37.44N±.01	142.28E±.02	18±4	3.0	¶97ix2959	
JMA	**IX 20 16 46 23.0**±.6	**34.45N**±.04	**141.72E**±.03	**25**	**3.0**	**¶97ix2970**	
ISC	**IX 20 19 12 49**±8.4	**36.3N**±.39	**142.6E**±.64	**49**		**13**	**2-4**
JMA	IX 20 19 12 51.9±.5	36.43N±.02	142.38E±.04	49	2.8	¶97ix2991	
ISC	**IX 20 20 26 10**±1.4	**34.40N**±.030	**141.62E**±.041	**8**±8.0	**4.8b**	**214**	**1-148**
EIDC	IX 20 20 26 11.4	34.4N	141.1E	0	4.4b,4.5L	¶97ix3002	
BJI	IX 20 20 26 14.8	34.49N	140.96E	29	4.6b		
JMA	IX 20 20 26 15.0±.4	34.39N±.02	141.28E±.03	49±4	4.3		
NEIC	IX 20 20 26 15.7	34.35N	140.97E	41	4.8b		
MOS	IX 20 20 26 18.6	34.4N	141.0E	71	5.2b		
JMA	**IX 21 04 53 33.7**±.5	**34.23N**±.04	**141.46E**±.04	**41**	**3.1**	**¶97ix3043**	
ISC	**IX 21 15 24 08.0**±.49	**38.36N**±.030	**143.71E**±.061	**35**±2.9*	**3.9b**,3.4s	**81**	**2-155**
JMA	IX 21 15 24 09.3±.1	38.34N±.01	143.73E±.02	28	4.0	¶97ix3119	
BJI	IX 21 15 24 09.6	38.41N	143.39E	32	4.4b		
NEIC	IX 21 15 24 10.2	38.44N	143.40E	34	4.3b		
EIDC	IX 21 15 24 12.1	38.3N	143.5E	37	3.5b,3.4s		
NEIC	Less reliable solution.						
ISC	**IX 22 02 16 32**±2.0	**40.73N**±.088	**145.8E**±.21	**54**		**31**	**2-5**
JMA	IX 22 02 16 34.8±.2	40.75N±.01	145.76E±.02	54	3.4	¶97ix3200	
ISC	**IX 23 15 21 05.6**±.57	**40.75N**±.030	**143.81E**±.079	**18**	**3.8b**,3.1s	**64**	**1-66**
JMA	IX 23 15 21 08.3±.3	40.76N±.00	143.79E±.02	18±5	3.8	¶97ix3443	
EIDC	IX 23 15 21 14.8	41.3N	141.9E	0	3.8b,4.1L		
NEIC	IX 23 15 21 17.6	41.17N	141.72E	33			
NEIC	Less reliable solution.						
ISC	**IX 23 22 52 05**±2.5	**36.2N**±.11	**142.7E**±.25	**61**		**18**	**2-4**
JMA	IX 23 22 52 06.3±.3	36.25N±.01	142.44E±.03	61		¶97ix3493	
ISC	**IX 25 04 51 43.6**±.25	**38.39N**±.021	**143.53E**±.035	**26**	**4.6b,4.3s**	**192**	**2-88**
EIDC	IX 25 04 51 41.5	38.3N	143.4E	0	4.3b,4.1s	¶97ix3677	
BJI	IX 25 04 51 44.0	38.42N	143.13E	15	5.0b,4.3s		
JMA	IX 25 04 51 44.3±.1	38.36N±.01	143.72E±.02	26	4.7		
NEIC	IX 25 04 51 44.9	38.44N	143.38E	33	4.8b		
MOS	IX 25 04 51 46.0	38.6N	143.4E	33	5.2b,4.3s		
ISC	**IX 25 16 36 49**±1.3	**37.28N**±.062	**143.1E**±.13	**44**	3.6b	**23**	**2-61**
EIDC	IX 25 16 36 04.3	43.0N	150.5E	33	3.3b,3.6L	¶97ix3762	
JMA	IX 25 16 36 48.0±.4	37.26N±.02	143.00E±.04	44	3.3		
ISC	**IX 26 18 30 31**±4.1	**38.0N**±.26	**144.9E**±.45	**64**		**25**	**3-6**
JMA	IX 26 18 30 33.6±.3	38.17N±.02	144.59E±.04	64		¶97ix4109	
ISC	**IX 28 05 42 53**±1.2	**37.32N**±.076	**142.5E**±.12	**35**		**39**	**1-7**
JMA	IX 28 05 42 54.4±.2	37.39N±.01	142.28E±.02	35	3.7	¶97ix4555	
ISC	**IX 29 08 00 47**±3.4	**34.2N**±.13	**141.8E**±.30	**40**		**17**	**1-4**
JMA	IX 29 08 00 47.1±.4	34.16N±.02	141.80E±.04	40	3.0	¶97ix4903	
ISC	**IX 29 10 24 26**±8.3	**38.7N**±.12	**143.8E**±.80	**28**		**12**	**2-3**
JMA	IX 29 10 24 29.1±.3	38.74N±.01	143.67E±.03	28	2.8	¶97ix4926	
ISC	**IX 29 22 09 04**±2.8	**34.2N**±.14	**141.8E**±.24	**43**		**14**	**1-4**
JMA	IX 29 22 09 02.9±.5	34.15N±.02	141.83E±.05	43	3.0	¶97ix5041	
ISC	**IX 29 22 38 10**±6.4	**34.13N**±.078	**142.0E**±.13	**3**±42	**3.9b**	**42**	**1-58**
EIDC	IX 29 22 38 12.1	34.1N	141.8E	0	3.8b,3.7L	¶97ix5044	
JMA	IX 29 22 38 13.5±.5	34.14N±.02	141.84E±.04	48	3.4		
NEIC	IX 29 22 38 15.1	34.11N	141.66E	33			
NEIC	Poor solution.						
ISC	**IX 30 04 26 20.1**±.88	**38.33N**±.050	**143.49E**±.097	**0**		**42**	**2-6**
JMA	IX 30 04 26 23.6±.2	38.36N±.01	143.43E±.02	0	3.8	¶97ix5124	
ISC	**IX 30 04 29 55**±4.0	**37.0N**±.19	**142.3E**±.35	**19**		**15**	**1-3**
JMA	IX 30 04 29 53.5±.3	37.02N±.01	142.35E±.03	19	3.1	¶97ix5126	
ISC	**IX 30 05 08 56**±2.4	**34.1N**±.14	**141.9E**±.18	**30**		**20**	**1-5**
JMA	IX 30 05 08 54.4±.4	34.11N±.02	141.93E±.02	30±5	3.1	¶97ix5132	
JMA	**IX 30 07 00 46.9**±.3	**39.29N**±.03	**144.68E**±.03	**7**	**3.0**	**¶97ix5153**	
ISC	**IX 30 07 12 34**±3.1	**36.13N**±.084	**142.2E**±.33	**65**		**12**	**1-3**
JMA	IX 30 07 12 34.7±.6	36.12N±.02	142.10E±.05	65		¶97ix5155	
ISC	**IX 30 08 25 59**±7.5	**34.2N**±.32	**141.6E**±.57	**36**		**14**	**1-4**
JMA	IX 30 08 26 00.0±.5	34.36N±.02	141.49E±.04	36±4	2.9	¶97ix5172	
ISC	**IX 30 09 48 28**±1.6	**34.16N**±.092	**141.9E**±.13	**44**		**41**	**1-6**
JMA	IX 30 09 48 28.0±.5	34.14N±.02	141.91E±.04	44	3.4	¶97ix5193	
ISC	**IX 30 11 58 59**±2.8	**34.2N**±.13	**141.8E**±.23	**40**		**19**	**1-4**
JMA	IX 30 11 58 58.6±.4	34.24N±.02	141.82E±.03	40	3.1	¶97ix5221	
ISC	**X 02 02 18 39**±8.1	**34.2N**±.14	**141.4E**±.77	**22**±21		**9**	**1-4**
JMA	X 02 02 18 35.6±.7	34.12N±.03	141.82E±.06	53	3.1	¶97x0191	
ISC	**X 02 09 33 26.4**±.58	**38.35N**±.046	**143.39E**±.069	**1**	**4.1b**,3.6s	**43**	**2-88**
JMA	X 02 09 33 29.1±.3	38.35N±.01	143.42E±.02	1±3	4.1	¶97x0250	
BJI	X 02 09 33 30.0	38.30N	143.20E	33	4.1b		
NEIC	X 02 09 33 31.9	38.32N	143.22E	33	4.1b		
EIDC	X 02 09 33 33.2	38.4N	143.2E	26	3.8b,4.2L		
ISC	**X 02 12 24 38**±7.3	**39.6N**±.12	**143.7E**±.72	**4**		**11**	**1-5**
JMA	X 02 12 24 40.6±.3	39.65N±.01	143.73E±.03	4	3.3	¶97x0283	

ISC	X	**03 06 35 53**±7.3	**33.6N**±.28	**142.9E**±.59	**44**			**11**	**2-5**
JMA	X	03 06 35 58.9±.4	33.71N±.02	142.26E±.04	44	3.1		**¶97x0410**	
ISC	X	**04 04 13 41**±4.2	**40.2N**±.24	**145.3E**±.43	**35**			**11**	**3-3**
JMA	X	04 04 13 42.4±.3	40.15N±.02	145.40E±.03	35	3.0		**¶97x0578**	
ISC	X	**04 12 29 15**±3.9	**36.1N**±.19	**143.0E**±.32	**64**			**25**	**2-4**
JMA	X	04 12 29 17.8±.3	36.24N±.01	142.69E±.02	64	3.1		**¶97x0642**	
ISC	X	**04 22 34 14**±8.0	**37.1N**±.24	**142.1E**±.67	**19**			**5**	**1-2**
JMA	X	04 22 34 13.2±.2	37.03N±.00	142.14E±.02	19±2	3.0		**¶97x0749**	
ISC	Poorly determined								
ISC	X	**05 13 50 49**±3.3	**35.9N**±.17	**142.4E**±.27	**54**			**21**	**1-4**
JMA	X	05 13 50 49.2±.2	35.92N±.01	142.34E±.02	54	3.0		**¶97x0871**	
ISC	X	**05 20 34 32**±6.0	**37.4N**±.19	**143.1E**±.55	**44**			**15**	**2-4**
JMA	X	05 20 34 32.0±.2	37.41N±.01	142.98E±.02	44	3.4		**¶97x0927**	
ISC	X	**06 02 11 00**±4.6	**37.3N**±.21	**142.2E**±.42	**24**			**15**	**1-2**
JMA	X	06 02 10 59.6±.2	37.32N±.01	142.22E±.02	24	3.4		**¶97x0967**	
ISC	X	**06 12 28 18**±3.8	**34.5N**±.11	**141.6E**±.35	**34**			**12**	**1-3**
JMA	X	06 12 28 15.0±.7	34.41N±.02	141.76E±.06	34	3.6		**¶97x1047**	
ISC	X	**07 10 12 16**±2.4	**36.31N**±.087	**142.6E**±.24	**64**			**18**	**2-4**
JMA	X	07 10 12 16.6±.2	36.32N±.01	142.48E±.02	64	3.1		**¶97x1226**	
ISC	X	**07 21 57 06**±1.1	**40.94N**±.066	**143.2E**±.14	**0**			**15**	**1-3**
JMA	X	07 21 57 09.1±.2	40.94N±.01	143.17E±.03	0	3.4		**¶97x1307**	
JMA	X	**07 23 35 39.0**±.1	**37.12N**±.00	**142.00E**±.01	**44**±2	**2.8**		**¶97x1322**	
ISC	X	**08 03 03 00**±4.6	**40.1N**±.11	**143.3E**±.45	**0**			**12**	**1-2**
JMA	X	08 03 03 02.9±.4	40.10N±.01	143.36E±.04	0	3.0		**¶97x1345**	
ISC	X	**08 08 47 34**±3.7	**36.47N**±.049	**142.7E**±.11	**14**±21	**4.2b,4.5s**		**54**	**2-84**
EIDC	X	08 08 47 33.9	36.5N	142.7E	0	3.9b,4.4L		**¶97x1377**	
JMA	X	08 08 47 34.4±.3	36.43N±.01	142.72E±.03	55	4.1			
MOS	X	08 08 47 36.5	36.5N	142.7E	33	5.1b			
NEIC	X	08 08 47 36.7	36.47N	142.63E	33	4.8b			
BJI	X	08 08 47 37.2	36.65N	141.86E	5	4.6b,4.5s			
ISC	X	**08 16 22 41**±3.3	**36.44N**±.047	**142.60E**±.089	**12**±19	**4.3b,4.5s**		**67**	**2-127**
BJI	X	08 16 22 39.0	36.68N	142.54E	5	4.6b,4.6s		**¶97x1438**	
EIDC	X	08 16 22 40.1	36.4N	142.8E	0	4.0b,4.4L			
NEIC	X	08 16 22 40.4	36.37N	142.66E	10	4.4b			
JMA	X	08 16 22 42.4±.3	36.47N±.01	142.57E±.03	44	3.8			
MOS	X	08 16 22 45.9	36.7N	142.4E	33	5.1b,4.4s			
NEIC	Less reliable solution.								
ISC	X	**09 13 13 44**±6.4	**37.6N**±.22	**143.3E**±.58	**54**			**12**	**2-4**
JMA	X	09 13 13 46.5±.3	37.62N±.01	143.09E±.02	54	3.8		**¶97x1585**	
ISC	X	**10 00 11 35**±2.6	**34.21N**±.064	**141.8E**±.13	**16**±18	**4.0b**		**31**	**1-148**
EIDC	X	10 00 11 34.5	34.2N	141.8E	0	3.9b,4.2L		**¶97x1664**	
JMA	X	10 00 11 36.3±.6	34.23N±.02	141.79E±.05	47	3.6			
NEIC	X	10 00 11 37.3	34.20N	141.77E	33	4.2b			
NEIC	Less reliable solution.								
ISC	X	**10 05 42 25**±3.0	**34.38N**±.068	**141.9E**±.14	**21**±21	**3.6b**		**24**	**1-159**
JMA	X	10 05 42 26.3±.5	34.42N±.02	141.79E±.05	57	3.5		**¶97x1698**	
NEIC	X	10 05 42 26.4	34.27N	141.73E	33				
EIDC	X	10 05 42 29.7	34.3N	141.8E	43	3.4b,4.0L			
NEIC	Less reliable solution.								
ISC	X	**10 07 29 50**±3.5	**37.9N**±.15	**142.2E**±.31	**19**			**11**	**1-2**
JMA	X	10 07 29 49.2±.4	37.84N±.01	142.30E±.03	19±4	2.8		**¶97x1714**	
JMA	X	**10 10 05 03.6**±.2	**36.35N**±.01	**142.50E**±.02	**33**	**3.0**		**¶97x1734**	
ISC	X	**11 14 30 01**±6.9	**36.3N**±.28	**142.3E**±.59	**44**			**14**	**1-3**
JMA	X	11 14 30 01.7±.3	36.42N±.01	142.18E±.03	44	3.0		**¶97x1902**	
JMA	X	**12 05 42 46.7**±.6	**33.60N**±.03	**142.17E**±.04	**43**	**3.1**		**¶97x1996**	
ISC	X	**12 16 23 27**±4.3	**34.4N**±.14	**141.1E**±.51	**27**±16			**9**	**0-3**
JMA	X	12 16 23 25.2±.3	34.38N±.01	141.27E±.02	48±3	3.0		**¶97x2070**	
ISC	X	**12 17 17 27**±4.4	**40.0N**±.11	**143.4E**±.43	**0**			**12**	**1-3**
JMA	X	12 17 17 29.1±.3	40.06N±.01	143.41E±.03	0	3.2		**¶97x2076**	
JMA	X	**12 18 05 54.7**±.3	**33.93N**±.02	**141.41E**±.03	**67**	**2.8**		**¶97x2082**	
JMA	X	**12 19 41 51.7**±.4	**34.24N**±.02	**141.77E**±.03	**45**	**3.0**		**¶97x2089**	
ISC	X	**14 06 19 30**±2.5	**37.85N**±.089	**142.2E**±.27	**35**			**17**	**1-2**
JMA	X	14 06 19 29.1±.3	37.86N±.01	142.16E±.02	35±5	3.1		**¶97x2346**	
JMA	X	**15 01 03 58.0**±.8	**34.03N**±.04	**141.63E**±.06	**34**	**3.2**		**¶97x2524**	
ISC	X	**16 01 49 49**±7.0	**36.1N**±.24	**142.0E**±.68	**75**			**5**	**1-2**
JMA	X	16 01 49 49.2±.4	36.11N±.02	141.94E±.04	75	2.5		**¶97x2766**	
JMA	X	**16 13 16 20.2**±.5	**39.19N**±.03	**144.69E**±.05	**45**	**2.9**		**¶97x2841**	
ISC	X	**16 13 46 19.0**±.87	**34.16N**±.073	**141.6E**±.11	**47**	**3.6b**		**18**	**1-58**
EIDC	X	16 13 46 14.9	34.1N	141.9E	0	3.6b,3.6L		**¶97x2845**	
NEIC	X	16 13 46 17.6	34.09N	141.74E	33	3.8b			
JMA	X	16 13 46 17.8±.4	34.13N±.02	141.65E±.03	47	3.2			
NEIC	Less reliable solution.								
JMA	X	**17 00 54 33.0**±.5	**39.69N**±.03	**144.71E**±.05	**17**	**2.9**		**¶97x2914**	
ISC	X	**18 11 26 10**±3.5	**38.1N**±.16	**143.8E**±.31	**17**			**14**	**2-5**
JMA	X	18 11 26 12.9±.2	38.05N±.01	143.79E±.02	17	3.5		**¶97x3148**	
ISC	X	**18 11 42 09**±5.7	**36.9N**±.21	**143.5E**±.50	**59**			**14**	**2-4**
JMA	X	18 11 42 12.2±.3	37.02N±.01	143.16E±.02	59	3.0		**¶97x3153**	
JMA	X	**20 05 20 41.0**±.4	**36.24N**±.03	**142.46E**±.03	**44**	**2.9**		**¶97x3445**	
JMA	X	**20 08 07 56.2**±.3	**39.32N**±.01	**143.97E**±.03	**11**	**3.0**		**¶97x3465**	
JMA	X	**21 03 33 38.7**±.2	**38.49N**±.01	**143.51E**±.02	**0**	**2.9**		**¶97x3592**	
ISC	X	**22 17 43 45**±4.3	**34.4N**±.12	**141.8E**±.41	**50**			**10**	**1-4**
JMA	X	22 17 43 43.6±.7	34.35N±.03	141.86E±.06	50	2.8		**¶97x3860**	
ISC	X	**22 18 32 32**±3.0	**33.8N**±.13	**141.1E**±.28	**57**			**10**	**1-4**
JMA	X	22 18 32 31.9±.2	33.86N±.01	141.10E±.03	57	3.2		**¶97x3867**	
ISC	X	**22 23 43 15**±4.1	**37.3N**±.21	**142.0E**±.39	**34**			**12**	**1-2**
JMA	X	22 23 43 12.4±.2	37.18N±.01	142.14E±.02	34	2.8		**¶97x3897**	
ISC	X	**23 19 59 21**±1.1	**33.59N**±.065	**141.2E**±.13	**85**±8.1	**4.0b**		**31**	**1-72**
BJI	X	23 19 59 16.9	33.60N	141.50E	80	4.5b		**¶97x4054**	
NEIC	X	23 19 59 19.9	33.61N	141.49E	80	4.3b			
JMA	X	23 19 59 21.9±.2	33.64N±.01	141.13E±.02	83±3	4.1			
EIDC	X	23 19 59 22.4	33.6N	141.2E	81	3.6b			
NEIC	Poor solution.								
ISC	X	**25 00 44 07**±2.0	**40.1N**±.11	**144.5E**±.25	**20**			**18**	**2-4**
JMA	X	25 00 44 10.7±.2	40.15N±.01	144.34E±.02	20	3.2		**¶97x4246**	
ISC	X	**25 14 26 00**±3.2	**37.7N**±.12	**142.4E**±.33	**36**			**15**	**1-3**
JMA	X	25 14 26 00.3±.3	37.72N±.01	142.28E±.02	36	3.0		**¶97x4337**	
ISC	X	**25 20 01 32**±6.0	**38.7N**±.13	**144.8E**±.58	**30**			**16**	**2-5**
JMA	X	25 20 01 36.5±.4	38.78N±.01	144.56E±.04	30	3.1		**¶97x4368**	
ISC	X	**26 15 10 17**±12	**34.4N**±.60	**143.2E**±.87	**59**			**8**	**2-4**
JMA	X	26 15 10 24.2±.7	34.73N±.03	142.69E±.06	59	2.8		**¶97x4482**	
JMA	X	**26 16 18 54.6**±.4	**40.46N**±.02	**144.95E**±.03	**29**	**2.9**		**¶97x4496**	
ISC	X	**27 23 05 57**±2.6	**37.7N**±.12	**142.1E**±.24	**21**			**13**	**1-2**
JMA	X	27 23 05 55.8±.3	37.71N±.01	142.23E±.02	21±3	2.8		**¶97x4671**	
JMA	X	**28 03 02 28.2**±.6	**40.04N**±.03	**144.23E**±.06	**44**	**2.9**		**¶97x4693**	
ISC	X	**28 09 02 51**±3.5	**37.4N**±.15	**142.0E**±.33	**22**			**9**	**1-2**
JMA	X	28 09 02 48.7±.3	37.39N±.01	142.19E±.02	22±5	2.9		**¶97x4737**	
ISC	X	**29 13 11 50**±5.3	**39.5N**±.13	**143.2E**±.48	**0**			**9**	**1-2**
JMA	X	29 13 11 52.7±.3	39.56N±.01	143.20E±.03	0	2.8		**¶97x4914**	
ISC	X	**29 14 23 40**±7.1	**33.9N**±.22	**142.0E**±.68	**55**			**8**	**1-3**
JMA	X	29 14 23 42.8±.3	33.91N±.01	141.71E±.03	55	2.9		**¶97x4923**	
JMA	X	**29 20 11 21.0**±.3	**40.08N**±.02	**145.32E**±.03	**38**	**2.9**		**¶97x4945**	
ISC	X	**29 21 45 10**±3.8	**37.5N**±.15	**142.3E**±.37	**23**			**11**	**1-2**
JMA	X	29 21 45 09.6±.3	37.49N±.01	142.24E±.03	23	2.9		**¶97x4955**	
ISC	X	**30 18 01 50**±3.9	**35.1N**±.13	**143.1E**±.39	**62**			**12**	**2-4**
JMA	X	30 18 01 52.6±.4	35.21N±.02	142.83E±.04	62	3.2		**¶97x5075**	
JMA	X	**31 13 52 27.7**±.3	**40.18N**±.02	**144.67E**±.03	**11**	**2.9**		**¶97x5191**	
JMA	X	**31 16 00 23.2**±.1	**37.85N**±.01	**144.07E**±.01	**42**	**2.8**		**¶97x5200**	
JMA	XI	**01 06 11 21.3**±.3	**37.24N**±.01	**142.23E**±.02	**29**	**2.9**		**¶97xi0038**	
ISC	XI	**01 09 18 41**±1.0	**33.83N**±.068	**141.3E**±.13	**69**	**3.6b**		**19**	**1-58**
JMA	XI	01 09 18 35.3±.3	33.72N±.01	141.88E±.03	69	3.2		**¶97xi0050**	
EIDC	XI	01 09 18 36.2	33.6N	141.7E	0	3.5b,3.8L			
JMA	XI	**02 02 44 49.3**±.3	**35.39N**±.02	**142.74E**±.02	**69**	**2.7**		**¶97xi0184**	
ISC	XI	**02 03 13 21**±5.8	**39.4N**±.10	**143.8E**±.59	**40**			**15**	**2-3**
JMA	XI	02 03 13 24.7±.2	39.45N±.01	143.51E±.02	40	3.0		**¶97xi0187**	
ISC	XI	**02 08 42 37**±2.1	**34.39N**±.085	**141.4E**±.17	**31**±12	3.7b		**17**	**0-61**
JMA	XI	02 08 42 37.3±.2	34.38N±.01	141.35E±.02	52±3	3.3		**¶97xi0222**	
EIDC	XI	02 08 42 42.2	33.7N	137.7E	0	3.6b,3.4L			
ISC	XI	**03 16 24 24**±3.3	**37.8N**±.11	**142.4E**±.34	**38**			**13**	**1-2**
JMA	XI	03 16 24 24.1±.3	37.80N±.01	142.36E±.03	38	2.9		**¶97xi0492**	
JMA	XI	**04 18 09 55.8**±.5	**34.79N**±.02	**141.88E**±.04	**69**	**2.6**		**¶97xi0671**	
JMA	XI	**05 15 33 37.5**±.3	**39.11N**±.02	**144.28E**±.02	**13**	**3.2**		**¶97xi0824**	
ISC	XI	**06 21 24 08**±2.8	**34.5N**±.15	**141.1E**±.32	**57**			**8**	**0-2**
JMA	XI	06 21 24 08.3±.6	34.47N±.02	141.13E±.06	57	3.0		**¶97xi1034**	
ISC	XI	**07 02 58 15**±8.7	**36.8N**±.27	**143.7E**±.76	**62**			**13**	**2-4**
JMA	XI	07 02 58 19.8±.2	36.92N±.01	143.23E±.02	62	3.6		**¶97xi1064**	
ISC	XI	**07 07 06 52**±2.1	**33.1N**±.10	**141.2E**±.19	**49**±22	**4.1b**		**22**	**1-65**
EIDC	XI	07 07 06 47.2	33.1N	141.3E	0	4.0b,4.3L		**¶97xi1091**	
JMA	XI	07 07 06 53.4±.2	33.23N±.01	141.05E±.01	49	3.7			
JMA	XI	**09 04 47 36.0**±.6	**38.66N**±.03	**143.19E**±.05	**0**	**2.9**		**¶97xi1400**	
ISC	XI	**10 04 14 00**±3.4	**40.8N**±.18	**145.5E**±.38	**49**			**10**	**2-4**
JMA	XI	10 04 14 03.0±.3	40.85N±.01	145.38E±.03	49	3.0		**¶97xi1556**	
ISC	XI	**10 09 05 14**±9.4	**37.6N**±.17	**142.2E**±.41	**3**±58			**10**	**1-2**
JMA	XI	10 09 05 15.7±.2	37.64N±.01	142.15E±.01	22±3	2.9		**¶97xi1587**	
ISC	XI	**10 20 30 06**±3.4	**37.6N**±.12	**142.4E**±.34	**34**			**15**	**1-4**
JMA	XI	10 20 30 06.5±.3	37.66N±.01	142.30E±.02	34±5	3.6		**¶97xi1668**	
ISC	XI	**11 12 49 18**±5.3	**40.2N**±.18	**145.3E**±.56	**55**			**14**	**3-4**
JMA	XI	11 12 49 20.1±.4	40.15N±.01	145.29E±.05	55	2.9		**¶97xi1791**	
ISC	XI	**11 17 50 37**±2.9	**39.8N**±.14	**143.8E**±.30	**4**			**10**	**1-3**
JMA	XI	11 17 50 40.5±.2	39.85N±.02	143.68E±.02	4	3.0		**¶97xi1840**	
JMA	XI	**11 23 01 59.9**±.4	**39.91N**±.02	**143.90E**±.04	**12**	**3.0**		**¶97xi1891**	
ISC	XI	**12 15 15 51**±3.4	**35.0N**±.11	**141.1E**±.27	**51**±32			**11**	**0-3**
JMA	XI	12 15 15 52.1±.2	34.98N±.01	140.98E±.02	49±2	2.8		**¶97xi2000**	
JMA	XI	**13 10 45 14.8**±.5	**39.30N**±.03	**144.74E**±.04	**25**	**2.8**		**¶97xi2124**	
ISC	XI	**14 00 44 45**±2.8	**37.77N**±.098	**142.2E**±.29	**33**			**15**	**1-2**
JMA	XI	14 00 44 44.3±.3	37.79N±.01	142.19E±.02	33±4	3.0		**¶97xi2212**	
JMA	XI	**14 01 16 51.4**±.3	**38.39N**±.02	**143.60E**±.03	**22**	**3.1**		**¶97xi2217**	
ISC	XI	**14 17 32 50**±5.4	**38.0N**±.21	**142.5E**±.53	**24**			**10**	**1-2**
JMA	XI	14 17 32 48.4±.2	37.92N±.01	142.64E±.01	24±3	2.9		**¶97xi2327**	
JMA	XI	**14 22 12 25.2**±.3	**39.09N**±.01	**144.44E**±.02	**43**	**3.1**		**¶97xi2358**	
ISC	XI	**16 13 49 26**±4.4	**40.2N**±.11	**143.3E**±.43	**0**			**15**	**1-5**
JMA	XI	16 13 49 27.6±.2	40.23N±.01	143.43E±.02	0	3.3		**¶97xi2655**	
ISC	XI	**17 08 24 19**±2.6	**40.0N**±.13	**145.5E**±.26	**37**			**18**	**3-4**
JMA	XI	17 08 24 21.6±.3	39.97N±.01	145.41E±.03	37	3.6		**¶97xi2763**	
ISC	XI	**17 08 29 46**±1.3	**33.27N**±.060	**141.5E**±.11	**36**±12	**4.2b,**3.7s		**43**	**1-148**
EIDC	XI	17 08 29 42.0	33.3N	141.6E	0	4.1b,4.3L		**¶97xi2765**	
BJI	XI	17 08 29 43.9	33.24N	141.77E	35	4.4b			
JMA	XI	17 08 29 45.1±.4	33.33N±.02	141.55E±.03	79	3.8			
NEIC	XI	17 08 29 45.4	33.25N	141.46E	33	4.5b			
JMA	XI	**17 12 24 38.8**±.1	**37.42N**±.01	**142.13E**±.02	**75**±4	**2.9**		**¶97xi2794**	
ISC	XI	**19 17 24 36.4**±.90	**34.30N**±.053	**141.1E**±.10	**52**±6.1	**4.2b**		**48**	**0-148**
BJI	XI	19 17 24 35.4	34.44N	140.94E	45			**¶97xi3270**	
JMA	XI	19 17 24 35.5±.2	34.32N±.01	141.15E±.02	60±3	3.9			
NEIC	XI	19 17 24 36.0	34.26N	141.07E	49	4.3b			
EIDC	XI	19 17 24 40.1	34.3N	141.0E	65	3.8b			
NEIC	Less reliable solution.								
ISC	XI	**19 17 29 58**±2.6	**34.3N**±.11	**141.0E**±.29	**26**±16			**11**	**0-3**
JMA	XI	19 17 29 56.7±.3	34.28N±.01	141.14E±.02	49±4	3.0		**¶97xi3271**	
JMA	XI	**19 21 08 42.7**±.4	**33.92N**±.02	**141.64E**±.04	**75**	**2.7**		**¶97xi3314**	
ISC	XI	**19 21 32 43**±5.6	**34.4N**±.13	**141.4E**±.57	**47**			**7**	**0-2**
JMA	XI	19 21 32 43.0±.3	34.32N±.02	141.31E±.03	47±4	2.9		**¶97xi3319**	
ISC	XI	**20 01 39 23**±3.1	**34.3N**±.11	**141.2E**±.31	**55**			**11**	**0-2**
JMA	XI	20 01 39 23.7±.3	34.31N±.01	141.13E±.02	55±4	3.2		**¶97xi3360**	
ISC	XI	**20 11 56 55**±8.0	**37.8N**±.27	**143.2E**±.70	**13**			**13**	**2-3**
JMA	XI	20 11 56 57.0±.3	37.88N±.01	142.91E±.03	13	3.4		**¶97xi3457**	
JMA	XI	**20 18 16 08.1**±.3	**39.01N**±.04	**145.18E**±.03	**4**	**2.9**		**¶97xi3512**	
ISC	XI	**21 08 49 17**±3.2	**37.93N**±.086	**142.1E**±.24	**27**±21			**15**	**1-2**
JMA	XI	21 08 49 17.7±.1	37.95N±.01	142.02E±.02	44±3	3.6		**¶97xi3626**	
ISC	XI	**21 11 38 42**±3.3	**34.4N**±.11	**141.1E**±.38	**29**±17			**10**	**0-3**
JMA	XI	21 11 38 40.4±.3	34.37N±.01	141.26E±.02	49±3	3.1		**¶97xi3646**	
ISC	XI	**22 03 46 48**±4.0	**34.7N**±.15	**142.4E**±.39	**74**±60			**12**	**1-3**
JMA	XI	22 03 46 49.3±.4	34.77N±.02	142.29E±.04	73	2.9		**¶97xi3798**	
ISC	XI	**22 06 14 56**±9.7	**37.4N**±.35	**142.2E**±.92	**38**			**5**	**1-2**
JMA	XI	22 06 14 55.5±.2	37.47N±.01	142.15E±.02	38±4	2.9		**¶97xi3816**	
ISC	XI	**22 09 10 07**±3.9	**38.47N**±.062	**143.7E**±.16	**17**±27	**3.9b**		**36**	**2-88**
BJI	XI	22 09 10 08.4	38.65N	143.81E	43	4.6b		**¶97xi3843**	
NEIC	XI	22 09 10 09.6	38.53N	143.57E	33	4.1b			
JMA	XI	22 09 10 10.3±.2	38.50N±.01	143.65E±.01	23	4.3			
EIDC	XI	22 09 10 11.8	38.5N	143.6E	37	3.5b,4.5L			
ISC	XI	**23 09 21 35**±1.6	**34.27N**±.077	**141.1E**±.15	**28**±12	**3.6b**		**19**	**0-58**
EIDC	XI	23 09 21 33.4	34.1N	141.1E	0	3.6b,3.7L		**¶97xi4083**	
JMA	XI	23 09 21 33.6±.2	34.30N±.01	141.16E±.02	57±3	3.4			
JMA	XI	**23 10 57 35.7**±.3	**40.24N**±.04	**145.01E**±.03	**29**	**2.8**		**¶97xi4101**	
ISC	XI	**24 20 53 38**±3.1	**34.4N**±.11	**141.2E**±.29	**33**±39			**14**	**0-3**
JMA	XI	24 20 53 37.5±.3	34.39N±.01	141.27E±.02	56±3	3.0		**¶97xi4385**	
JMA	XI	**25 05 19 45.7**±.5	**34.10N**±.02	**141.18E**±.04	**34**	**2.9**		**¶97xi4450**	
ISC	XI	**25 10 02 40**±3.8	**34.4N**±.13	**141.3E**±.40	**52**			**7**	**0-2**
JMA	XI	25 10 02 40.6±.4	34.33N±.02	141.22E±.04	52±4	3.0		**¶97xi4486**	
JMA	XI	**26 19 20 46.2**±.7	**36.26N**±.03	**142.26E**±.06	**31**	**2.8**		**¶97xi4736**	
ISC	XI	**27 13 05 36**±2.5	**34.39N**±.099	**141.0E**±.30	**28**±14			**13**	**0-3**
JMA	XI	27 13 05 35.1±.3	34.37N±.02	141.12E±.03	48±4	3.2		**¶97xi4862**	
JMA	XI	**27 22 42 43.0**±.4	**34.18N**±.02	**141.14E**±.04	**35**	**2.8**		**¶97xi4952**	
JMA	XI	**28 01 55 45.1**±.5	**34.20N**±.03	**141.19E**±.04	**37**	**2.9**		**¶97xi4990**	
ISC	XI	**29 08 34 39**±1.0	**40.97N**±.061	**143.3E**±.14	**1**			**15**	**1-3**
JMA	XI	29 08 34 42.5±.1	40.96N±.01	143.20E±.02	1	3.2		**¶97xi5225**	
JMA	XI	**29 11 59 58.0**±.5	**37.60N**±.02	**142.22E**±.05	**87**	**2.5**		**¶97xi5257**	
ISC	XI	**29 18 59 40**±3.2	**37.8N**±.11	**142.5E**±.33	**34**			**16**	**1-4**
JMA	XI	29 18 59 39.9±.3	37.80N±.01	142.42E±.02	34±5	3.5		**¶97xi5312**	
ISC	XI	**30 10 52 06**±3.5	**37.3N**±.15	**142.1E**±.34	**40**			**12**	**1-2**
JMA	XI	30 10 52 06.6±.3	37.36N±.01	141.97E±.02	40±5	3.1		**¶97xi5405**	
ISC	XI	**30 13 31 42**±8.5	**36.8N**±.25	**142.0E**±.60	**15**±32			**9**	**1-2**
JMA	XI	30 13 31 44.7±.3	36.89N±.01	141.80E±.02	46±5	2.9		**¶97xi5416**	

Agency	mo	Origin Time d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
JMA	**XII**	**01**	**14**	**03**	**51.6**±.2	**38.67N**±.01	**144.03E**±.02	**28**	**3.4**		¶**97xii0097**
JMA	**XII**	**01**	**18**	**22**	**07.8**±.3	**36.44N**±.02	**142.47E**±.02	**59**	**3.3**		¶**97xii0126**
ISC	**XII**	**01**	**22**	**54**	**13**±4.4	**33.5N**±.22	**141.6E**±.36	**57**		**11**	**1-4**
JMA	XII	01	22	54	15.8±.4	33.63N±.02	141.33E±.03	57	3.0		¶**97xii0157**
ISC	**XII**	**02**	**07**	**23**	**54**±1.2	**39.2N**±.10	**144.4E**±.13	**35**	**3.7b**	**18**	**2-60**
EIDC	XII	02	07	23	52.3±1.43	38.7N	145.8E	0	3.8b,3.8L		¶**97xii0205**
JMA	XII	02	07	23	54.7±.4	39.26N±.02	144.40E±.04	35	3.3		
EIDC	Error ellipse is semi−major=39.0km semi−minor=29.0km azimuth=117										
ISC	**XII**	**02**	**07**	**49**	**20**±2.8	**40.0N**±.10	**145.3E**±.29	**32**		**17**	**3-6**
JMA	XII	02	07	49	23.4±.2	39.97N±.01	145.11E±.03	32	4.0		¶**97xii0212**
ISC	**XII**	**02**	**12**	**50**	**19**±1.4	**39.60N**±.074	**143.9E**±.15	**40**		**24**	**2-5**
JMA	XII	02	12	50	22.4±.1	39.65N±.01	143.76E±.02	40	4.1		¶**97xii0250**
JMA	**XII**	**04**	**18**	**41**	**51.0**±.3	**40.28N**±.02	**144.95E**±.03	**48**	**2.9**		¶**97xii0668**
ISC	**XII**	**05**	**05**	**57**	**21**±4.5	**37.7N**±.18	**142.3E**±.42	**32**		**10**	**1-2**
JMA	XII	05	05	57	21.6±.3	37.70N±.01	142.22E±.02	32±5	2.9		¶**97xii0791**
JMA	**XII**	**06**	**08**	**58**	**33.6**±.4	**39.46N**±.02	**143.53E**±.04	**6**	**2.8**		¶**97xii1318**
ISC	**XII**	**06**	**10**	**29**	**29**±3.4	**37.4N**±.15	**142.0E**±.34	**34**		**10**	**1-2**
JMA	XII	06	10	29	29.6±.2	37.44N±.01	141.90E±.02	34±4	2.9		¶**97xii1359**
JMA	**XII**	**07**	**06**	**58**	**40.6**±.3	**38.86N**±.02	**144.42E**±.02	**23**	**2.8**		¶**97xii1642**
ISC	**XII**	**08**	**19**	**19**	**02**±3.1	**37.9N**±.10	**142.5E**±.33	**38**		**12**	**1-2**
JMA	XII	08	19	19	03.6±.3	37.96N±.01	142.31E±.03	38	3.2		¶**97xii1994**
ISC	**XII**	**09**	**00**	**29**	**12**±3.1	**37.4N**±.14	**142.1E**±.30	**27**		**12**	**1-2**
JMA	XII	09	00	29	12.0±.2	37.45N±.01	142.07E±.02	27±4	3.4		¶**97xii2052**
ISC	**XII**	**09**	**00**	**40**	**11**±5.7	**37.4N**±.26	**142.1E**±.50	**26**		**8**	**1-2**
JMA	XII	09	00	40	11.8±.3	37.47N±.01	142.03E±.02	26±4	2.8		¶**97xii2056**
ISC	**XII**	**09**	**03**	**37**	**50**±11	**37.0N**±.55	**142.8E**±.86	**52**		**10**	**2-3**
JMA	XII	09	03	37	52.9±.2	37.17N±.01	142.44E±.02	52	2.8		¶**97xii2092**
ISC	**XII**	**10**	**03**	**28**	**56**±1.1	**39.33N**±.082	**144.5E**±.12	**35**±2.5*	**3.7b**	**23**	**2-74**
JMA	XII	10	03	28	57.6±.2	39.28N±.01	144.49E±.02	41	3.7		¶**97xii2285**
NEIC	XII	10	03	28	58.2	39.00N	144.44E	33	4.3b		
EIDC	XII	10	03	29	00.6±.79	39.1N	144.5E	34±5.9	3.5b,4.0L		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi−major=28.8km semi−minor=18.1km azimuth=112										
JMA	**XII**	**11**	**08**	**46**	**13.4**±.3	**39.31N**±.02	**144.42E**±.02	**43**	**3.1**		¶**97xii2523**
JMA	**XII**	**12**	**05**	**35**	**38.6**±.4	**36.28N**±.02	**143.91E**±.03	**51**	**3.0**		¶**97xii2701**
ISC	**XII**	**13**	**03**	**28**	**09**±1.7	**40.2N**±.14	**144.4E**±.29	**118**±26	3.8b	**14**	**2-61**
JMA	XII	13	03	28	12.2±.2	40.25N±.01	144.35E±.02	31	3.3		¶**97xii2872**
JMA	**XII**	**13**	**07**	**39**	**00.6**±.2	**38.63N**±.01	**143.28E**±.02	**17**	**2.9**		¶**97xii2911**
JMA	**XII**	**13**	**20**	**07**	**26.8**±.3	**39.96N**±.03	**145.35E**±.03	**6**	**2.8**		¶**97xii3010**
ISC	**XII**	**14**	**05**	**53**	**44**±4.5	**37.0N**±.20	**142.0E**±.35	**0**		**7**	**1-2**
JMA	XII	14	05	53	42.0±.3	37.00N±.01	142.21E±.02	0	3.0		¶**97xii3093**
JMA	**XII**	**15**	**01**	**17**	**37.0**±.3	**40.15N**±.01	**143.51E**±.03	**0**	**3.2**		¶**97xii3217**
ISC	**XII**	**18**	**11**	**41**	**57**±2.1	**39.62N**±.091	**143.4E**±.21	**0**		**15**	**1-5**
JMA	XII	18	11	41	59.7±.2	39.66N±.01	143.32E±.02	0	3.6		¶**97xii3756**
ISC	**XII**	**18**	**14**	**11**	**38**±3.3	**37.9N**±.12	**142.6E**±.33	**29**		**12**	**1-2**
JMA	XII	18	14	11	36.4±.1	37.85N±.00	142.65E±.01	29±2	3.7		¶**97xii3778**
JMA	**XII**	**18**	**21**	**20**	**34.6**±.4	**38.76N**±.03	**144.52E**±.03	**24**	**2.8**		¶**97xii3831**
ISC	**XII**	**19**	**03**	**58**	**23**±1.6	**40.4N**±.12	**143.9E**±.21	**3**		**13**	**2-3**
JMA	XII	19	03	58	26.5±.3	40.41N±.01	143.80E±.02	3±4	3.3		¶**97xii3888**
ISC	**XII**	**20**	**01**	**00**	**50**±2.1	**40.39N**±.055	**143.75E**±.096	**27**±14	**4.0b**,4.9s	**49**	**2-87**
JMA	XII	20	01	00	49.4±.2	40.41N±.01	143.81E±.03	0	4.1		¶**97xii4061**
BJI	XII	20	01	00	49.8	40.57N	143.71E	30	4.6b,4.8s		
NEIC	XII	20	01	00	50.3	40.35N	143.72E	33	4.2b		
EIDC	XII	20	01	00	51.7±.54	40.4N	143.8E	28±3.4	3.6b,3.9L		
EIDC	Error ellipse is semi−major=15.0km semi−minor=12.1km azimuth=115										
ISC	**XII**	**20**	**01**	**07**	**37**±1.4	**40.4N**±.11	**143.9E**±.19	**2**		**17**	**2-6**
JMA	XII	20	01	07	40.9±.3	40.41N±.01	143.78E±.02	2±3	3.6		¶**97xii4064**
ISC	**XII**	**20**	**06**	**07**	**20**±4.1	**33.3N**±.23	**141.0E**±.31	**56**		**11**	**1-3**
JMA	XII	20	06	07	20.0±.3	33.35N±.01	140.97E±.03	56	3.4		¶**97xii4087**
ISC	**XII**	**20**	**14**	**56**	**52**±2.8	**40.3N**±.14	**145.3E**±.29	**41**		**15**	**2-4**
JMA	XII	20	14	56	54.2±.2	40.28N±.01	145.20E±.03	41	3.3		¶**97xii4133**
JMA	**XII**	**20**	**21**	**19**	**21.8**±.2	**37.16N**±.01	**142.08E**±.02	**68**±4	**2.6**		¶**97xii4172**
JMA	**XII**	**21**	**11**	**56**	**05.9**±.4	**34.18N**±.02	**141.14E**±.03	**31**	**2.8**		¶**97xii4250**
ISC	**XII**	**21**	**23**	**33**	**57**±1.1	**34.3N**±.12	**141.7E**±.11	**32**	**3.5b**	**15**	**1-79**
JMA	XII	21	23	33	46.0±.5	33.83N±.03	142.35E±.04	32	3.4		¶**97xii4320**
EIDC	XII	21	23	33	54.1±1.29	34.2N	141.8E	0	3.5b,3.8L		
NEIC	XII	21	23	33	56.9	34.20N	141.71E	33			
EIDC	Error ellipse is semi−major=38.7km semi−minor=28.3km azimuth=84										
NEIC	Less reliable solution.										
ISC	**XII**	**22**	**16**	**49**	**26**±4.1	**33.3N**±.23	**141.0E**±.30	**45**		**11**	**1-4**
JMA	XII	22	16	49	27.2±.4	33.39N±.02	140.86E±.03	45	3.4		¶**97xii4452**
ISC	**XII**	**22**	**18**	**09**	**30**±2.0	**40.2N**±.11	**144.7E**±.22	**54**		**15**	**2-4**
JMA	XII	22	18	09	32.7±.2	40.21N±.01	144.64E±.02	54	3.6		¶**97xii4462**
ISC	**XII**	**22**	**22**	**18**	**47**±1.2	**40.42N**±.076	**143.8E**±.15	**6**		**20**	**2-6**
JMA	XII	22	22	18	50.3±.2	40.42N±.01	143.77E±.02	6	3.5		¶**97xii4493**
ISC	**XII**	**23**	**01**	**53**	**49**±4.8	**34.2N**±.14	**141.6E**±.49	**47**		**9**	**1-4**
JMA	XII	23	01	53	46.2±.4	34.09N±.02	141.82E±.04	47	3.1		¶**97xii4517**
JMA	**XII**	**23**	**03**	**47**	**01.5**±.8	**34.44N**±.04	**141.84E**±.06	**42**	**2.8**		¶**97xii4537**
ISC	**XII**	**23**	**13**	**19**	**51**±6.8	**37.0N**±.23	**143.6E**±.61	**74**		**12**	**2-4**
JMA	XII	23	13	19	56.0±.2	37.15N±.01	143.15E±.02	74	3.1		¶**97xii4603**
ISC	**XII**	**24**	**04**	**11**	**41**±4.2	**38.0N**±.17	**142.4E**±.41	**36**		**9**	**1-2**
JMA	XII	24	04	11	40.5±.3	37.98N±.01	142.32E±.03	36±4	2.9		¶**97xii4701**
JMA	**XII**	**24**	**08**	**00**	**31.8**±.5	**34.07N**±.03	**142.90E**±.03	**52**	**3.1**		¶**97xii4721**
JMA	**XII**	**24**	**08**	**25**	**13.1**±.3	**34.16N**±.02	**141.20E**±.03	**37**	**3.1**		¶**97xii4724**
ISC	**XII**	**25**	**18**	**57**	**18**±4.2	**37.1N**±.20	**142.1E**±.37	**28**		**11**	**1-2**
JMA	XII	25	18	57	19.1±.3	37.15N±.01	141.94E±.02	28±5	2.9		¶**97xii4975**
ISC	**XII**	**26**	**17**	**29**	**20**±1.7	**40.65N**±.051	**143.89E**±.093	**20**±12	**4.2b**,3.9s	**58**	**1-86**
JMA	XII	26	17	29	19.8±.4	40.60N±.01	144.05E±.03	4±4	3.8		¶**97xii5181**
BJI	XII	26	17	29	23.8	40.59N	143.33E	32	4.7b,4.1s		
NEIC	XII	26	17	29	24.8	40.62N	143.61E	62	4.1b		
EIDC	XII	26	17	29	26.8±.71	40.6N	143.7E	65±5.4	3.5b,3.5s		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi−major=20.4km semi−minor=12.7km azimuth=136										
ISC	**XII**	**27**	**16**	**49**	**47**±1.5	**40.6N**±.12	**144.1E**±.19	**0**		**13**	**2-4**
JMA	XII	27	16	49	50.1±.4	40.57N±.01	144.06E±.02	0±4	2.8		¶**97xii5317**
ISC	**XII**	**27**	**21**	**52**	**43**±1.8	**40.6N**±.13	**144.1E**±.22	**10**		**10**	**2-3**
JMA	XII	27	21	52	45.9±.3	40.60N±.01	144.03E±.02	10±4	2.9		¶**97xii5356**
JMA	**XII**	**27**	**22**	**04**	**36.7**±.5	**40.67N**±.04	**144.18E**±.04	**15**	**2.8**		¶**97xii5357**
ISC	**XII**	**28**	**05**	**13**	**21**±2.0	**40.65N**±.040	**143.88E**±.067	**7**±12	**4.5b,4.4s**	**102**	**1-88**
EIDC	XII	28	05	13	21.7±.58	40.7N	143.9E	0	4.1b,4.3s		¶**97xii5402**
JMA	XII	28	05	13	22.7±.2	40.57N±.01	144.04E±.02	0	4.0		
BJI	XII	28	05	13	24.3	40.62N	143.63E	28	4.7b,4.5s		
NEIC	XII	28	05	13	25.2	40.70N	143.72E	33	4.7b,4.3s		
MOS	XII	28	05	13	25.4	40.7N	143.8E	33	5.1b,4.2s		
EIDC	Error ellipse is semi−major=16.6km semi−minor=12.5km azimuth=103										
ISC	**XII**	**28**	**05**	**17**	**44**±2.2	**40.59N**±.064	**144.0E**±.11	**22**±16	**3.9b**,4.4s	**35**	**2-86**
JMA	XII	28	05	17	44.1±.2	40.57N±.01	144.05E±.02	0	3.8		¶**97xii5403**
BJI	XII	28	05	17	45.0	40.50N	143.80E	33	4.7b		
NEIC	XII	28	05	17	45.0	40.54N	143.87E	33	3.6b		
EIDC	XII	28	05	17	50.1±.89	40.5N	143.9E	60±5.8	3.5b		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi−major=21.3km semi−minor=18.5km azimuth=83										
ISC	**XII**	**28**	**05**	**33**	**50**±1.4	**40.57N**±.095	**144.0E**±.18	**8**		**13**	**2-4**
JMA	XII	28	05	33	52.7±.2	40.56N±.01	144.00E±.02	8	3.3		¶**97xii5404**
JMA	**XII**	**28**	**11**	**21**	**12.3**±.4	**40.37N**±.03	**143.92E**±.04	**17**	**2.9**		¶**97xii5447**
ISC	**XII**	**28**	**19**	**03**	**56**±1.5	**40.6N**±.10	**144.0E**±.18	**2**		**16**	**2-3**
JMA	XII	28	19	03	58.7±.3	40.57N±.01	144.04E±.03	2±4	3.1		¶**97xii5482**
ISC	**XII**	**29**	**08**	**03**	**07**±4.2	**34.9N**±.26	**142.0E**±.32	**69**±55		**10**	**1-5**
JMA	XII	29	08	03	09.1±.3	34.96N±.01	141.71E±.03	70±5	2.8		¶**97xii5561**
JMA	**XII**	**29**	**23**	**50**	**57.1**±.3	**37.84N**±.01	**142.63E**±.02	**24**±4	**2.9**		¶**97xii5659**
ISC	**XII**	**31**	**14**	**28**	**34**±4.7	**37.0N**±.22	**142.2E**±.41	**36**		**11**	**1-2**
JMA	XII	31	14	28	36.3±.2	37.17N±.01	141.94E±.02	36	2.8		¶**97xii5915**

(230) Near south coast of Honshū.

ISC	**VII**	**01**	**09**	**51**	**42**±1.0	**34.46N**±.066	**139.65E**±.057	**134**±10		**54**	**0-6**
JMA	VII	01	09	51	43.9±.1	34.49N±.01	139.59E±.01	120±2			¶**97vii0061**
ISC	**VII**	**02**	**02**	**17**	**09**±2.5	**35.7N**±.11	**139.2E**±.21	**161**±21		**22**	**0-5**
JMA	VII	02	02	17	11.2±.3	35.69N±.01	139.29E±.03	142±3			¶**97vii0168**
ISC	**VII**	**02**	**13**	**04**	**18.8**±.34	**34.85N**±.036	**138.39E**±.033	**24**		**42**	**0-3**
JMA	VII	02	13	04	18.6±.0	34.88N±.00	138.38E±.00	24±1	3.0		¶**97vii0244**
ISC	**VII**	**02**	**18**	**56**	**10.3**±.59	**35.08N**±.042	**139.84E**±.045	**63**±9.2		**54**	**0-5**
JMA	VII	02	18	56	10.3±.1	35.07N±.01	139.78E±.01	61±2	3.1		¶**97vii0284**
ISC	**VII**	**02**	**22**	**53**	**07**±5.2	**34.5N**±.52	**138.1E**±.63	**304**		**15**	**2-5**
JMA	VII	02	22	53	07.5±.4	34.50N±.04	138.10E±.06	304			¶**97vii0315**
JMA	**VII**	**03**	**21**	**45**	**34.2**±.1	**35.90N**±.01	**139.51E**±.00	**83**±1			¶**97vii0457**
ISC	**VII**	**03**	**21**	**56**	**52**±2.6	**35.7N**±.11	**139.2E**±.16	**162**±25		**16**	**0-4**
JMA	VII	03	21	56	53.9±.2	35.72N±.01	139.22E±.02	143±2			¶**97vii0459**
JMA	**VII**	**04**	**04**	**25**	**04.0**±.3	**35.28N**±.03	**139.30E**±.03	**144**±3			¶**97vii0495**
ISC	**VII**	**04**	**23**	**01**	**04.1**±.59	**34.40N**±.054	**139.21E**±.059	**17**±8.1		**23**	**0-3**
JMA	VII	04	23	01	04.5±.1	34.43N±.00	139.21E±.01	15±2	3.0		¶**97vii0632**
ISC	**VII**	**05**	**06**	**27**	**09.4**±.35	**34.95N**±.027	**138.29E**±.025	**26**±4.3	**3.6b**	**89**	**0-69**
EIDC	VII	05	06	27	05.6	34.9N	138.5E	0	3.6b,3.4L		¶**97vii0691**
NEIC	VII	05	06	27	07.7	34.81N	138.40E	33			
JMA	VII	05	06	27	09.3±.0	35.01N±.00	138.31E±.00	25±1	3.7		
NEIC	Less reliable solution.										
JMA	Felt I=II J1										
ISC	**VII**	**05**	**10**	**15**	**45.8**±.65	**35.93N**±.036	**139.98E**±.052	**88**±11		**49**	**0-4**
JMA	VII	05	10	15	46.4±.1	35.92N±.01	139.94E±.01	77±2			¶**97vii0714**
ISC	**VII**	**07**	**00**	**59**	**16**±2.2	**35.8N**±.32	**139.6E**±.29	**84**		**6**	**0-1**
JMA	VII	07	00	59	15.7±.3	35.85N±.02	139.60E±.02	84±3			¶**97vii0961**
ISC	**VII**	**07**	**17**	**05**	**36.4**±.38	**35.46N**±.044	**139.22E**±.066	**128**		**37**	**0-4**
JMA	VII	07	17	05	36.4±.1	35.45N±.01	139.20E±.01	128±2			¶**97vii1066**
ISC	**VII**	**08**	**07**	**49**	**25.6**±.64	**34.42N**±.050	**139.26E**±.071	**11**±6.2		**23**	**0-67**
JMA	VII	08	07	49	26.2±.1	34.44N±.01	139.26E±.01	6±2	2.8		¶**97vii1150**
ISC	**VII**	**08**	**11**	**35**	**21**±2.6	**33.5N**±.38	**137.4E**±.31	**375**		**7**	**1-5**
JMA	VII	08	11	35	20.8±.2	33.53N±.04	137.44E±.03	375			¶**97vii1180**
ISC	**VII**	**09**	**05**	**48**	**08**±1.3	**35.59N**±.064	**139.99E**±.077	**65**±22		**25**	**0-2**
JMA	VII	09	05	48	07.0±.2	35.61N±.01	140.01E±.02	73±3			¶**97vii1287**
ISC	**VII**	**10**	**22**	**04**	**48.3**±.72	**34.21N**±.051	**139.22E**±.048	**7**±6.3		**31**	**0-3**
JMA	VII	10	22	04	48.4±.2	34.20N±.01	139.14E±.01	10±2	2.9		¶**97vii1576**
ISC	**VII**	**11**	**08**	**00**	**46**±3.9	**33.6N**±.40	**137.3E**±.24	**373**±32		**23**	**2-7**
JMA	VII	11	08	00	47.6±.4	33.73N±.07	137.25E±.05	359			¶**97vii1647**
ISC	**VII**	**12**	**01**	**00**	**20**±4.3	**35.1N**±.24	**139.7E**±.16	**80**±51		**11**	**0-2**
JMA	VII	12	01	00	18.0±.3	35.04N±.02	139.68E±.02	97±3			¶**97vii1751**
ISC	**VII**	**12**	**21**	**20**	**23**±5.9	**34.1N**±.33	**137.0E**±.34	**378**±41		**26**	**0-7**
JMA	VII	12	21	20	25.0±.2	34.33N±.04	136.92E±.05	363			¶**97vii1870**
ISC	**VII**	**13**	**03**	**37**	**08**±4.6	**35.6N**±.39	**139.2E**±.46	**126**±51		**7**	**0-2**
JMA	VII	13	03	37	08.7±.1	35.63N±.01	139.16E±.02	122±1			¶**97vii1919**
JMA	**VII**	**13**	**06**	**19**	**37.5**±.0	**35.83N**±.00	**139.60E**±.00	**83**±1			¶**97vii1936**
ISC	**VII**	**13**	**08**	**12**	**14**±1.8	**35.63N**±.088	**139.8E**±.10	**142**±20		**36**	**0-5**
JMA	VII	13	08	12	16.0±.2	35.67N±.01	139.75E±.01	119±2			¶**97vii1945**
ISC	**VII**	**13**	**10**	**37**	**52.0**±.64	**35.37N**±.043	**139.84E**±.050	**53**±13		**36**	**0-4**
JMA	VII	13	10	37	51.5±.1	35.38N±.01	139.81E±.01	58±2	2.9		¶**97vii1959**
JMA	**VII**	**14**	**08**	**53**	**11.4**±.1	**35.16N**±.01	**139.33E**±.01	**154**±1			¶**97vii2087**
ISC	**VII**	**14**	**13**	**32**	**10.2**±.27	**35.58N**±.025	**139.98E**±.036	**45**±5.0	**3.8b**	**91**	**0-148**
BJI	VII	14	13	32	02.8	35.82N	140.57E	20	4.3b		¶**97vii2139**
EIDC	VII	14	13	32	06.5	35.4N	140.0E	0	3.3L,3.6b		
NEIC	VII	14	13	32	06.8	35.40N	140.02E	18			
JMA	VII	14	13	32	09.9±.1	35.60N±.01	139.92E±.01	43±3	3.8		
JMA	Felt I=II J1										
ISC	**VII**	**14**	**13**	**32**	**52**±1.4	**35.7N**±.11	**139.9E**±.16	**29**±12		**6**	**0-1**
JMA	VII	14	13	32	52.3±.2	35.66N±.01	139.94E±.02	31±3	3.4		¶**97vii2141**
JMA	**VII**	**15**	**14**	**44**	**06.4**±.4	**35.99N**±.02	**139.92E**±.03	**104**±3			¶**97vii2316**
ISC	**VII**	**15**	**17**	**15**	**24.8**±.58	**34.72N**±.035	**139.32E**±.049	**7**±6.0		**36**	**0-2**
JMA	VII	15	17	15	25.0±.1	34.74N±.01	139.34E±.01	3±3	2.8		¶**97vii2327**
JMA	Felt I=II J1										
ISC	**VII**	**15**	**19**	**25**	**15.1**±.58	**34.73N**±.036	**139.33E**±.041	**8**±5.7		**38**	**0-2**
JMA	VII	15	19	25	15.4±.1	34.73N±.01	139.33E±.01	2±3	3.0		¶**97vii2340**
JMA	Felt I=III J1										
ISC	**VII**	**16**	**10**	**54**	**32.7**±.68	**34.45N**±.060	**139.20E**±.096	**9**±8.5		**14**	**0-2**
JMA	VII	16	10	54	33.1±.1	34.44N±.00	139.21E±.01	12±2	2.8		¶**97vii2431**
JMA	**VII**	**16**	**21**	**43**	**28.2**±.1	**35.82N**±.01	**139.68E**±.01	**80**±1			¶**97vii2500**
ISC	**VII**	**18**	**12**	**25**	**05**±4.2	**34.6N**±.36	**137.8E**±.53	**327**		**11**	**2-4**
JMA	VII	18	12	25	03.6±.3	34.44N±.03	137.64E±.04	327			¶**97vii2737**
ISC	**VII**	**18**	**15**	**58**	**38**±1.7	**35.18N**±.079	**139.50E**±.081	**126**±18		**27**	**0-5**
JMA	VII	18	15	58	38.8±.2	35.18N±.01	139.49E±.01	114±2			¶**97vii2764**
ISC	**VII**	**19**	**05**	**05**	**15.8**±.59	**35.32N**±.086	**139.7E**±.10	**134**		**20**	**0-4**
JMA	VII	19	05	05	15.8±.3	35.30N±.02	139.61E±.02	134±3			¶**97vii2832**
ISC	**VII**	**19**	**09**	**10**	**33**±3.2	**35.6N**±.14	**139.7E**±.22	**136**±35		**18**	**0-4**
JMA	VII	19	09	10	35.2±.2	35.60N±.01	139.72E±.02	117±2			¶**97vii2851**
ISC	**VII**	**19**	**11**	**56**	**06.1**±.44	**34.90N**±.040	**137.39E**±.036	**29**±5.7		**38**	**0-3**
JMA	VII	19	11	56	06.2±.1	34.92N±.01	137.42E±.01	36±2	2.8		¶**97vii2867**
JMA	**VII**	**20**	**03**	**44**	**32**±1.5	**35.90N**±.059	**139.93E**±.084	**129**±20		**33**	**1-4**
JMA	VII	20	03	44	33.6±.2	35.92N±.01	139.91E±.01	106±2			¶**97vii3002**
ISC	**VII**	**20**	**05**	**55**	**08.9**±.43	**35.50N**±.034	**139.47E**±.041	**28**±5.6		**45**	**0-4**
JMA	VII	20	05	55	08.8±.1	35.50N±.01	139.43E±.01	35±2	3.0		¶**97vii3027**
ISC	**VII**	**20**	**10**	**07**	**37.9**±.59	**34.37N**±.046	**139.19E**±.052	**13**±6.2		**36**	**0-4**
JMA	VII	20	10	07	38.4±.1	34.41N±.00	139.21E±.01	8±2	2.8		¶**97vii3068**
ISC	**VII**	**20**	**15**	**20**	**26**±5.9	**35.9N**±.26	**139.6E**±.28	**102**±59		**7**	**0-1**
JMA	VII	20	15	20	26.9±.3	35.89N±.02	139.60E±.02	87±3			¶**97vii3111**
ISC	**VII**	**21**	**11**	**31**	**38**±2.9	**35.7N**±.12	**139.1E**±.20	**165**±26		**19**	**0-4**
JMA	VII	21	11	31	40.3±.2	35.70N±.01	139.20E±.02	147±2			¶**97vii3237**
JMA	**VII**	**21**	**18**	**58**	**55.4**±.2	**34.21N**±.03	**139.03E**±.06	**226**			¶**97vii3278**
ISC	**VII**	**24**	**00**	**49**	**07.3**±.81	**35.2N**±.13	**139.7E**±.14	**97**		**9**	**0-1**
JMA	VII	24	00	49	07.4±.3	35.21N±.01	139.70E±.02	97±3			¶**97vii3594**
ISC	**VII**	**24**	**13**	**57**	**25.8**±.72	**34.26N**±.044	**139.13E**±.056	**3**±7.7		**32**	**0-4**
JMA	VII	24	13	57	26.3±.1	34.28N±.01	139.17E±.01	3±3	2.8		¶**97vii3678**

ISC	**VII**	**28 00 17 30**±3.3	**35.2N**±.41	**139.6E**±.48	**137**			**4**	**0-2**
JMA	VII	28 00 17 30.5±.2	35.30N±.01	139.53E±.03	137±2				¶97vii4186
ISC	Poorly determined								
ISC	**VII**	**28 06 32 31.1**±.64	**34.43N**±.047	**139.28E**±.061	**6**±6.3			**26**	**0-2**
JMA	VII	28 06 32 31.7±.1	34.43N±.01	139.27E±.01	2±3	2.9			¶97vii4216
JMA	Felt I=II J1								
ISC	**VII**	**29 23 29 29**±4.0	**35.6N**±.12	**139.3E**±.16	**114**±42			**12**	**0-1**
JMA	VII	29 23 29 29.8±.2	35.60N±.01	139.31E±.01	108±2				¶97vii4500
ISC	**VII**	**30 02 52 30**±4.1	**33.0N**±.33	**137.3E**±.51	**416**			**22**	**3-8**
JMA	VII	30 02 52 31.2±.3	33.09N±.04	137.45E±.07	416				¶97vii4521
ISC	**VII**	**30 18 31 59**±4.1	**35.8N**±.15	**139.1E**±.17	**132**±39			**11**	**0-1**
JMA	VII	30 18 31 59.8±.2	35.86N±.01	139.05E±.01	126±2				¶97vii4619
ISC	**VII**	**31 06 37 28**±1.8	**35.66N**±.073	**139.7E**±.11	**71**±28			**13**	**0-1**
JMA	VII	31 06 37 28.2±.2	35.65N±.01	139.64E±.01	68±2				¶97vii4689
ISC	**VII**	**31 09 20 15**±3.2	**35.2N**±.15	**139.9E**±.10	**73**±44			**14**	**0-2**
JMA	VII	31 09 20 14.9±.2	35.20N±.01	139.84E±.01	77±3				¶97vii4711
ISC	**VII**	**31 15 25 22**±4.1	**34.5N**±.17	**139.8E**±.11	**105**±40			**17**	**0-2**
JMA	VII	31 15 25 23.1±.2	34.55N±.02	139.78E±.01	92±2				¶97vii4751
ISC	**VIII**	**01 13 54 38**±1.7	**35.07N**±.087	**139.87E**±.090	**88**±20			**20**	**0-3**
JMA	VIII	01 13 54 38.2±.2	35.07N±.01	139.82E±.02	89±2				¶97viii0073
ISC	**VIII**	**02 00 53 49**±2.6	**35.66N**±.084	**139.8E**±.12	**121**±32			**19**	**0-4**
JMA	VIII	02 00 53 49.5±.2	35.67N±.01	139.76E±.02	116±2				¶97viii0141
ISC	**VIII**	**03 06 27 07**±2.2	**35.92N**±.066	**139.73E**±.086	**121**±27			**26**	**0-4**
JMA	VIII	03 06 27 07.7±.2	35.94N±.01	139.73E±.01	110±2				¶97viii0319
ISC	**VIII**	**03 11 32 16.9**±.93	**35.3N**±.10	**139.4E**±.19	**106**			**11**	**0-2**
JMA	VIII	03 11 32 17.1±.4	35.31N±.02	139.36E±.03	106±3				¶97viii0356
ISC	**VIII**	**03 18 25 21**±5.0	**35.9N**±.28	**139.3E**±.28	**153**±48			**10**	**0-2**
JMA	VIII	03 18 25 21.7±.3	35.90N±.02	139.35E±.02	143±2				¶97viii0393
ISC	**VIII**	**03 19 00 25.7**±.66	**34.84N**±.065	**137.36E**±.068	**328**±6.8	3.6b		**70**	**0-69**
JMA	VIII	03 19 00 26.7±.2	34.88N±.02	137.31E±.01	320±3				¶97viii0400
ISC	**VIII**	**03 20 00 39**±1.8	**35.4N**±.16	**139.7E**±.30	**89**			**6**	**1-1**
JMA	VIII	03 20 00 38.9±.2	35.42N±.01	139.65E±.03	89±3				¶97viii0405
JMA	**VIII**	**04 17 42 18.8**±.3	**35.60N**±.02	**139.64E**±.02	**62**±3				¶97viii0525
JMA	**VIII**	**06 16 49 54.4**±.3	**34.02N**±.03	**138.17E**±.05	**339**				¶97viii0822
ISC	**VIII**	**07 06 28 29**±1.8	**35.8N**±.19	**139.9E**±.24	**72**			**8**	**0-1**
JMA	VIII	07 06 28 29.7±.3	35.83N±.01	139.80E±.02	72±3				¶97viii0897
ISC	**VIII**	**08 20 34 48.2**±.18	**35.81N**±.018	**139.46E**±.023	**76**±1.7	**4.8b**		**358**	**0-159**
BJI	VIII	08 20 34 45.6	35.92N	139.69E	72	4.9b,4.4s			¶97viii1161
MOS	VIII	08 20 34 46.6	35.8N	139.5E	66	5.5b,4.2s			
NEIC	VIII	08 20 34 47.1	35.70N	139.36E	68	4.9b			
EIDC	VIII	08 20 34 48.0	35.7N	139.5E	64	4.7b,4.0s			
JMA	VIII	08 20 34 48.6±.1	35.83N±.01	139.50E±.01	67±2	4.7			
HRVD	VIII	08 20 34 49.6±.1	35.37N±.01	139.22E±.01	80±1.0				
NEIC	Mw5.1(HRV).								
JMA	Felt I=III J1								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}1.93±.32; $M_{\theta\theta}$0.76±.63; $M_{\phi\phi}$−2.69±.71; $M_{r\theta}$−4.11±.37; $M_{r\phi}$0.03±.65; $M_{\theta\phi}$−0.72±.44. Principal Axes: T 5.53,Plg49°,Azm185°; N −2.23,Plg28°,Azm58°; P −3.29,Plg27°,Azm312°. Best double couple: $M_0$4.4×10^{16}Nm, NP1: ϕ_S355°,δ31°,λ23°. NP2:ϕ_S244°,δ78°,λ119°.								
ISC	**VIII**	**09 10 30 00**±1.5	**34.8N**±.36	**139.8E**±.15	**67**			**7**	**0-1**
JMA	VIII	09 10 30 00.7±.4	34.89N±.04	139.83E±.02	67±4				¶97viii1236
ISC	**VIII**	**10 15 37 46**±1.2	**36.0N**±.40	**139.3E**±.37	**111**			**5**	**0-1**
JMA	VIII	10 15 37 46.1±.4	35.93N±.03	139.34E±.03	111±3				¶97viii1416
JMA	**VIII**	**10 15 43 55.3**±.2	**35.72N**±.02	**139.56E**±.02	**124**±2				¶97viii1417
ISC	**VIII**	**10 18 36 15.3**±.66	**34.96N**±.034	**139.28E**±.043	**4**±6.5			**29**	**0-2**
JMA	VIII	10 18 36 16.1±.1	34.96N±.00	139.24E±.01	3±1	3.0			¶97viii1439
ISC	**VIII**	**11 16 20 27**±1.6	**35.17N**±.087	**139.53E**±.075	**108**±17			**31**	**0-5**
JMA	VIII	11 16 20 28.2±.2	35.17N±.01	139.50E±.01	99±3				¶97viii1585
ISC	**VIII**	**12 02 21 01**±4.9	**34.8N**±.27	**140.0E**±.18	**78**±52			**9**	**0-2**
JMA	VIII	12 02 21 01.7±.3	34.88N±.02	139.95E±.01	66±3				¶97viii1664
ISC	**VIII**	**12 12 38 25**±1.2	**35.56N**±.062	**139.78E**±.075	**136**±16			**41**	**0-5**
JMA	VIII	12 12 38 26.3±.1	35.58N±.01	139.73E±.01	120±2				¶97viii1750
JMA	**VIII**	**12 19 19 49.5**±.3	**35.76N**±.02	**139.52E**±.02	**127**±2				¶97viii1795
ISC	**VIII**	**13 09 11 58**±2.8	**35.5N**±.11	**139.9E**±.17	**69**±37			**13**	**0-1**
JMA	VIII	13 09 11 58.6±.3	35.49N±.01	139.85E±.02	65±3				¶97viii1882
ISC	**VIII**	**13 18 03 31**±1.2	**35.99N**±.050	**139.97E**±.081	**127**±16			**32**	**1-4**
JMA	VIII	13 18 03 32.8±.2	35.98N±.01	139.95E±.01	103±2				¶97viii1945
ISC	**VIII**	**13 21 04 24**±3.6	**35.7N**±.35	**139.7E**±.29	**78**			**6**	**0-1**
JMA	VIII	13 21 04 23.2±.5	35.67N±.02	139.70E±.04	78±4				¶97viii1957
ISC	Poorly determined								
ISC	**VIII**	**15 08 04 27.6**±.51	**34.93N**±.038	**137.21E**±.038	**29**±6.3			**33**	**0-2**
JMA	VIII	15 08 04 27.3±.1	34.95N±.01	137.23E±.01	43±2	2.9			¶97viii2186
ISC	**VIII**	**19 02 28 23**±1.8	**34.8N**±.12	**139.98E**±.096	**58**±27			**20**	**0-2**
JMA	VIII	19 02 28 22.9±.2	34.80N±.01	139.93E±.01	59±2	2.8			¶97viii2747
ISC	**VIII**	**19 08 32 39.2**±.31	**33.13N**±.043	**137.98E**±.033	**325**±1.9	**4.4b**		**268**	**1-151**
BJI	VIII	19 08 32 35.3	32.82N	138.09E	320	4.7b			¶97viii2782
NEIC	VIII	19 08 32 36.4	32.83N	137.91E	314	4.7b			
MOS	VIII	19 08 32 36.5	32.9N	138.1E	315	4.8b			
JMA	VIII	19 08 32 37.5±.2	32.98N±.02	138.09E±.01	337±2	4.7			
EIDC	VIII	19 08 32 37.9	33.0N	138.1E	312	4.0b			
ISC	**VIII**	**20 20 54 43.3**±.49	**35.01N**±.027	**139.13E**±.035	**9**±4.4			**58**	**0-5**
JMA	VIII	20 20 54 43.8±.0	35.02N±.01	139.11E±.01	5±1	3.5			¶97viii3014
JMA	Felt I=III J1								
ISC	**VIII**	**20 21 54 46.6**±.62	**35.52N**±.029	**139.04E**±.042	**10**±6.0			**33**	**0-3**
JMA	VIII	20 21 54 47.0±.0	35.53N±.00	139.03E±.00	20±1	2.9			¶97viii3021
ISC	**VIII**	**21 04 56 13**±1.1	**35.4N**±.16	**139.4E**±.19	**99**			**5**	**0-1**
JMA	VIII	21 04 56 13.3±.2	35.43N±.01	139.41E±.02	99±2				¶97viii3056
ISC	**VIII**	**23 01 43 56**±4.2	**34.1N**±.23	**138.7E**±.15	**267**±33			**25**	**1-6**
JMA	VIII	23 01 43 57.6±.4	34.13N±.02	138.67E±.02	252±3				¶97viii3322
ISC	**VIII**	**23 11 31 21**±1.2	**35.8N**±.19	**139.5E**±.28	**134**			**10**	**0-1**
JMA	VIII	23 11 31 20.9±.3	35.78N±.01	139.44E±.02	134±2				¶97viii3396
ISC	**VIII**	**23 13 33 06**±2.4	**35.7N**±.15	**140.0E**±.28	**133**±32			**14**	**1-4**
JMA	VIII	23 13 33 08.3±.2	35.71N±.01	139.95E±.02	108±2				¶97viii3409
ISC	**VIII**	**23 20 38 57.8**±.75	**35.26N**±.048	**139.64E**±.067	**51**±16			**23**	**0-2**
JMA	VIII	23 20 38 57.9±.1	35.25N±.01	139.60E±.01	50±2	2.9			¶97viii3452
ISC	**VIII**	**24 13 09 02**±2.7	**36.0N**±.12	**139.9E**±.46	**107**			**9**	**0-1**
JMA	VIII	24 13 09 02.2±.2	35.98N±.01	139.81E±.02	107±2				¶97viii3537
ISC	**VIII**	**25 14 20 15**±1.2	**35.76N**±.057	**139.24E**±.069	**118**±15			**33**	**0-4**
JMA	VIII	25 14 20 15.4±.2	35.76N±.01	139.23E±.01	114±2				¶97viii3700
ISC	**VIII**	**27 09 13 52**±2.4	**34.5N**±.15	**137.04E**±.095	**360**±24			**37**	**0-6**
JMA	VIII	27 09 13 53.1±.4	34.53N±.02	137.02E±.01	355±5				¶97viii3963
ISC	**VIII**	**27 15 43 07**±5.4	**34.5N**±.69	**138.7E**±.44	**234**			**11**	**1-4**
JMA	VIII	27 15 43 06.9±.4	34.48N±.05	138.70E±.04	234				¶97viii4010
ISC	**VIII**	**28 02 54 45.9**±.88	**35.4N**±.10	**139.7E**±.14	**88**			**10**	**1-1**
JMA	VIII	28 02 54 45.9±.2	35.41N±.01	139.75E±.01	88±3				¶97viii4077
JMA	**VIII**	**28 04 31 45.5**±.3	**33.26N**±.02	**137.88E**±.02	**60**±3	**2.7**			¶97viii4084
ISC	**VIII**	**28 16 13 47.4**±.61	**35.81N**±.038	**139.97E**±.057	**66**±13			**41**	**0-4**
JMA	VIII	28 16 13 47.1±.2	35.83N±.01	139.94E±.01	63±2				¶97viii4160
ISC	**VIII**	**28 20 00 47.4**±.27	**33.72N**±.039	**137.21E**±.042	**366**±3.1	**3.7b**		**140**	**0-151**
NEIC	VIII	28 20 00 47.2	33.74N	137.12E	366	3.9b			¶97viii4179
JMA	VIII	28 20 00 47.6±.2	33.77N±.02	137.16E±.01	369±2				
EIDC	VIII	28 20 00 48.5	33.7N	137.0E	355	3.5b			
ISC	**VIII**	**28 22 48 30.6**±.83	**34.91N**±.031	**139.38E**±.035	**13**±6.9			**53**	**0-5**
JMA	VIII	28 22 48 31.3±.0	34.92N±.00	139.34E±.01	14±1	3.3			¶97viii4193
ISC	**VIII**	**29 11 23 29.1**±.59	**34.18N**±.027	**139.22E**±.025	**14**±3.9	**4.1b**		**150**	**0-150**
BJI	VIII	29 11 23 19.1	33.47N	140.17E	10	4.3b			¶97viii4287
NEIC	VIII	29 11 23 27.7	34.09N	139.17E	10	4.3b			
EIDC	VIII	29 11 23 27.9	34.1N	139.3E	0	4.0b,3.4L			
JMA	VIII	29 11 23 30.1±.1	34.27N±.01	139.19E±.01	1±3	3.8			
JMA	Felt I=III J1								
ISC	**VIII**	**29 11 25 15.0**±.64	**34.21N**±.035	**139.21E**±.033	**12**±4.6	4.0b		**74**	**0-150**
JMA	VIII	29 11 25 15.7±.1	34.26N±.01	139.21E±.01	3±4	3.4			¶97viii4288
JMA	Felt I=II J1								
ISC	**VIII**	**29 11 27 58.5**±.91	**34.26N**±.063	**139.23E**±.097	**8**±9.9			**12**	**0-2**
JMA	VIII	29 11 27 58.9±.1	34.26N±.01	139.22E±.01	7±3	2.9			¶97viii4289
ISC	**VIII**	**29 11 28 47.8**±.67	**34.24N**±.050	**139.22E**±.054	**9**±6.1	3.7b		**25**	**0-67**
JMA	VIII	29 11 28 48.3±.1	34.26N±.01	139.21E±.01	4±2	2.8			¶97viii4290
ISC	**VIII**	**29 11 43 24**±1.0	**35.84N**±.051	**139.74E**±.076	**80**±18			**27**	**0-4**
JMA	VIII	29 11 43 23.5±.1	35.84N±.01	139.73E±.01	78±2				¶97viii4295
ISC	**VIII**	**29 12 42 44.6**±.65	**34.21N**±.042	**139.20E**±.043	**9**±5.6			**39**	**0-4**
JMA	VIII	29 12 42 45.2±.1	34.25N±.01	139.19E±.01	5±3	2.8			¶97viii4304
ISC	**VIII**	**29 12 50 37.7**±.65	**34.20N**±.044	**139.21E**±.047	**12**±5.9			**41**	**0-4**
JMA	VIII	29 12 50 38.5±.1	34.26N±.01	139.20E±.01	3±3	2.8			¶97viii4305
ISC	**VIII**	**29 15 30 28**±3.4	**35.3N**±.14	**139.5E**±.12	**101**±36			**14**	**0-2**
JMA	VIII	29 15 30 27.4±.2	35.26N±.01	139.52E±.01	104±2				¶97viii4337
ISC	**VIII**	**29 21 06 10**±1.2	**34.4N**±.18	**137.7E**±.24	**288**±15	3.3b		**10**	**1-54**
JMA	VIII	29 21 06 06.0±.2	34.22N±.04	137.58E±.04	329				¶97viii4379
JMA	**VIII**	**30 00 35 29.8**±.6	**34.09N**±.07	**138.48E**±.05	**269**				¶97viii4400
ISC	**VIII**	**31 13 40 14**±1.0	**35.3N**±.15	**139.6E**±.18	**138**			**12**	**0-3**
JMA	VIII	31 13 40 14.1±.2	35.36N±.01	139.57E±.02	138±2				¶97viii4658
JMA	**IX**	**01 14 59 50.0**±.2	**35.72N**±.03	**139.00E**±.02	**162**±2				¶97ix0124
ISC	**IX**	**02 07 40 40**±1.5	**35.1N**±.11	**139.91E**±.085	**66**±22			**15**	**0-2**
JMA	IX	02 07 40 39.8±.2	35.13N±.02	139.88E±.01	64±3				¶97ix0235
ISC	**IX**	**02 12 40 38.1**±.35	**33.90N**±.046	**137.41E**±.044	**355**±2.9	**4.0b**		**145**	**0-151**
NEIC	IX	02 12 40 37.3	33.76N	137.38E	346	4.3b			¶97ix0278
JMA	IX	02 12 40 37.6±.1	33.88N±.01	137.36E±.01	363±1	4.8			
EIDC	IX	02 12 40 38.1	33.8N	137.4E	340	3.6b			
NEIC	Less reliable solution.								
ISC	**IX**	**02 19 08 27.2**±.36	**35.47N**±.031	**139.63E**±.045	**157**±4.4	**3.3b**		**101**	**0-70**
NEIC	IX	02 19 08 27.8	35.47N	139.53E	145				¶97ix0315
EIDC	IX	02 19 08 28.8	35.5N	139.6E	136	3.1b			
JMA	IX	02 19 08 29.3±.1	35.46N±.01	139.54E±.01	136±1	3.4			
NEIC	Less reliable solution.								
ISC	**IX**	**05 18 37 40**±9.2	**34.5N**±.54	**137.9E**±.39	**310**±59			**21**	**1-6**
JMA	IX	05 18 37 41.5±.3	34.57N±.03	137.87E±.04	306±3				¶97ix0782
ISC	**IX**	**05 19 59 41**±2.8	**35.9N**±.13	**139.2E**±.13	**122**±28			**14**	**0-2**
JMA	IX	05 19 59 41.2±.2	35.88N±.01	139.19E±.01	118±2				¶97ix0793
ISC	**IX**	**06 02 47 06**±2.3	**35.1N**±.12	**140.0E**±.12	**72**±27			**12**	**0-2**
JMA	IX	06 02 47 05.8±.2	35.14N±.01	139.96E±.01	70±3				¶97ix0849
JMA	**IX**	**06 17 52 27.0**±.2	**35.70N**±.01	**139.97E**±.02	**79**±2				¶97ix0951
ISC	**IX**	**07 00 04 45**±2.7	**33.4N**±.37	**137.6E**±.33	**352**			**8**	**1-5**
JMA	IX	07 00 04 44.8±.3	33.39N±.06	137.63E±.05	352				¶97ix0996
ISC	**IX**	**07 13 40 05**±1.8	**35.9N**±.15	**139.8E**±.15	**42**			**20**	**0-4**
JMA	IX	07 13 40 06.4±.2	36.09N±.01	139.82E±.01	42±3	3.5			¶97ix1072
ISC	**IX**	**07 23 40 38.6**±.18	**35.56N**±.019	**139.92E**±.023	**112**±1.4	**5.2b**		**566**	**0-163**
MOS	IX	07 23 40 36.7	35.5N	139.9E	100	5.4b			¶97ix1143
BJI	IX	07 23 40 36.9	35.48N	139.92E	116	5.5b			
NEIC	IX	07 23 40 37.5	35.44N	139.77E	106	5.2b			
EIDC	IX	07 23 40 38.0	35.6N	139.7E	95	4.8b,4.1s			
JMA	IX	07 23 40 38.4±.2	35.55N±.01	140.00E±.01	109±2	5.2			
HRVD	IX	07 23 40 38.4±.5	35.44N±.04	140.16E±.09	110±3.2				
NEIC	Mw5.2(HRV)								
NEIC	Felt I=III J1 at Tokyo.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c34; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.70±.28; $M_{\theta\theta}$−5.94±.55; $M_{\phi\phi}$2.24±.60; $M_{r\theta}$2.50±.41; $M_{r\phi}$4.83±.37; $M_{\theta\phi}$0.60±.43. Principal Axes: T 8.22,Plg49°,Azm285°; N −1.62, Plg36°,Azm73°; P −6.60,Plg16°,Azm175°. Best double couple: $M_0$7.4×10^{16}Nm, NP1: ϕ_S305°,δ43°,λ150°. NP2:ϕ_S58°,δ70°,λ51°.								
ISC	**IX**	**08 02 39 13**±1.6	**34.0N**±.25	**137.1E**±.32	**386**			**16**	**1-6**
JMA	IX	08 02 39 13.0±.2	34.07N±.06	137.01E±.07	386				¶97ix1158
ISC	**IX**	**08 03 37 29**±1.7	**35.51N**±.082	**139.99E**±.082	**132**±19			**35**	**0-4**
JMA	IX	08 03 37 31.0±.2	35.55N±.01	139.96E±.01	108±2				¶97ix1166
ISC	**IX**	**08 14 47 55.8**±.53	**35.57N**±.034	**139.55E**±.043	**123**±7.7			**80**	**0-9**
JMA	IX	08 14 47 57.6±.1	35.59N±.01	139.50E±.01	100±2	3.0			¶97ix1237
ISC	**IX**	**09 18 54 51**±2.0	**34.59N**±.086	**139.8E**±.12	**100**±27			**25**	**0-5**
JMA	IX	09 18 54 50.9±.2	34.57N±.01	139.80E±.02	101±2				¶97ix1427
JMA	**IX**	**10 04 25 21.2**±.4	**35.70N**±.04	**139.09E**±.03	**132**±3				¶97ix1473
JMA	**IX**	**10 08 16 23.6**±.4	**35.56N**±.02	**139.34E**±.04	**138**±3				¶97ix1494
ISC	**IX**	**10 16 40 38**±3.0	**35.0N**±.16	**138.5E**±.15	**221**±30			**20**	**0-5**
JMA	IX	10 16 40 40.5±.3	35.07N±.02	138.48E±.02	199±4				¶97ix1548
ISC	**IX**	**10 20 40 06.4**±.54	**35.65N**±.034	**139.19E**±.040	**126**±8.1			**68**	**0-5**
JMA	IX	10 20 40 07.2±.1	35.65N±.01	139.19E±.01	116±2				¶97ix1577
ISC	**IX**	**11 03 18 41**±2.9	**35.0N**±.18	**139.9E**±.11	**72**±28			**14**	**0-2**
JMA	IX	11 03 18 41.5±.2	34.97N±.01	139.91E±.01	69±2				¶97ix1625
JMA	**IX**	**11 04 57 07.1**±.5	**35.84N**±.02	**139.41E**±.04	**133**±3				¶97ix1633
ISC	**IX**	**11 10 03 09**±2.6	**35.63N**±.070	**139.7E**±.13	**92**±30			**16**	**0-2**
JMA	IX	11 10 03 09.9±.2	35.62N±.01	139.65E±.02	79±3				¶97ix1663
ISC	**IX**	**11 16 39 05.5**±.27	**34.47N**±.034	**138.04E**±.035	**298**±2.4	**3.8b**		**162**	**0-83**
BJI	IX	11 16 39 05.0	34.68N	138.10E	291	4.4b			¶97ix1702
NEIC	IX	11 16 39 05.0	34.38N	137.99E	292	4.1b			
JMA	IX	11 16 39 06.0±.1	34.48N±.01	137.99E±.01	296±1				
EIDC	IX	11 16 39 06.3	34.4N	137.9E	284	3.5b			
ISC	**IX**	**11 20 47 57**±1.7	**35.78N**±.074	**139.34E**±.097	**115**±20			**24**	**0-4**
JMA	IX	11 20 47 57.7±.2	35.78N±.01	139.35E±.01	101±2				¶97ix1733
ISC	**IX**	**12 08 12 19**±1.2	**35.89N**±.057	**139.77E**±.072	**82**±19			**26**	**0-4**
JMA	IX	12 08 12 18.7±.2	35.89N±.01	139.77E±.01	79±2				¶97ix1784
ISC	**IX**	**13 02 15 58**±5.2	**35.3N**±.15	**139.2E**±.15	**149**±53			**10**	**0-2**
JMA	IX	13 02 15 58.2±.2	35.31N±.01	139.17E±.02	145±2				¶97ix1898
ISC	**IX**	**13 18 47 17**±5.7	**34.4N**±.49	**139.0E**±.72	**234**			**12**	**1-5**
JMA	IX	13 18 47 16.6±.2	34.34N±.02	138.91E±.03	234				¶97ix2016
ISC	**IX**	**13 23 39 34**±4.6	**35.9N**±.15	**139.5E**±.24	**95**±51			**8**	**0-1**
JMA	IX	13 23 39 35.1±.2	35.89N±.01	139.57E±.02	80±2				¶97ix2050
ISC	**IX**	**14 05 31 59.2**±.45	**34.31N**±.027	**139.29E**±.029	**17**±4.2	**3.8b**		**99**	**0-150**
EIDC	IX	14 05 31 57.9	34.3N	139.4E	0	3.8b,3.3L			¶97ix2075
JMA	IX	14 05 31 59.8±.1	34.38N±.01	139.27E±.01	8±2	3.5			
NEIC	IX	14 05 32 00.6	34.28N	139.26E	33				
JMA	Felt I=III J1								
NEIC	Less reliable solution.								
ISC	**IX**	**14 05 33 19.3**±.51	**34.32N**±.029	**139.26E**±.032	**16**±4.5	**3.8b**,3.2s		**99**	**0-150**
EIDC	IX	14 05 33 18.2	34.4N	139.3E	0	3.8b,3.6L			¶97ix2076
JMA	IX	14 05 33 19.9±.1	34.39N±.01	139.24E±.01	3±2	3.6			

Agency		Origin Time			φ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
NEIC	IX	14	05	33 21.1	34.35N	139.21E	33			
JMA	Felt I=IV J1									
NEIC	Less reliable solution.									
ISC	**IX**	**14**	**05**	**33 51.5**±.69	**34.41N**±.048	**139.27E**±.077	**3**±7.2		**22**	**0-3**
JMA	IX	14	05	33 51.7±.1	34.39N±.01	139.27E±.01	3±2	3.8		¶97ix2077
JMA	Felt I=III J1									
ISC	**IX**	**14**	**05**	**39 29.5**±.71	**35.51N**±.027	**139.08E**±.036	**14**±6.6		**44**	**0-66**
JMA	IX	14	05	39 29.8±.0	35.51N±.01	139.08E±.01	24±2	3.1		¶97ix2078
ISC	**IX**	**14**	**12**	**25 50**±2.9	**35.6N**±.13	**139.7E**±.17	**77**±31		**12**	**0-1**
JMA	IX	14	12	25 50.8±.3	35.59N±.02	139.68E±.02	73±3			¶97ix2123
ISC	**IX**	**17**	**07**	**40 55**±5.1	**34.9N**±.48	**139.8E**±.17	**71**±57		**6**	**0-2**
JMA	IX	17	07	40 53.5±.3	34.91N±.03	139.80E±.01	88±3			¶97ix2483
ISC	**IX**	**17**	**09**	**08 31.8**±.42	**34.14N**±.062	**137.32E**±.052	**343**±4.7	**3.1b**	**75**	**0-95**
NEIC	IX	17	09	08 31.2	33.92N	137.35E	327	3.3b		¶97ix2491
JMA	IX	17	09	08 31.6±.2	34.20N±.02	137.27E±.01	349±3			
EIDC	IX	17	09	08 32.0	34.0N	137.6E	322	3.1b		
NEIC	Less reliable solution.									
ISC	**IX**	**20**	**17**	**37 34**±6.1	**35.9N**±.25	**139.1E**±.19	**134**±55		**8**	**0-1**
JMA	IX	20	17	37 35.8±.2	35.95N±.01	139.11E±.02	120±2			¶97ix2978
ISC	**IX**	**21**	**11**	**17 09.7**±.60	**33.42N**±.078	**137.55E**±.077	**370**±6.1	**3.3b**	**63**	**0-66**
EIDC	IX	21	11	16 38.2	32.8N	132.3E	0	3.7b,4.0L		¶97ix3089
NEIC	IX	21	11	16 40.8	32.78N	132.28E	33			
JMA	IX	21	11	17 07.3±.4	33.35N±.03	137.51E±.02	394±4			
NEIC	Less reliable solution.									
ISC	**IX**	**22**	**18**	**48 05**±6.5	**34.9N**±.47	**139.7E**±.25	**108**±62		**7**	**0-1**
JMA	IX	22	18	48 05.2±.4	35.06N±.03	139.72E±.03	104±4			¶97ix3318
ISC	**IX**	**23**	**22**	**02 37.0**±.36	**35.51N**±.021	**139.02E**±.027	**23**±4.6	**3.8b**	**95**	**0-149**
NEIC	IX	23	22	02 35.0	35.46N	139.07E	33	3.4b		¶97ix3485
JMA	IX	23	22	02 36.9±.0	35.54N±.00	139.01E±.00	20±1	3.9		
EIDC	IX	23	22	02 39.0	35.5N	138.9E	46	3.7b,3.7L		
NEIC	Less reliable solution.									
NEIC	Felt I=III J1 in western Chiba, northern Kanagawa and southern Saitama Prefectures.									
ISC	**IX**	**25**	**19**	**28 47**±2.1	**35.9N**±.30	**139.0E**±.43	**152**		**9**	**0-1**
JMA	IX	25	19	28 47.5±.4	35.88N±.02	139.02E±.03	152±3			¶97ix3781
ISC	**IX**	**26**	**14**	**12 21.3**±.48	**34.37N**±.031	**138.19E**±.028	**31**±4.4	**4.1b**	**97**	**0-150**
EIDC	IX	26	14	12 17.2	34.3N	138.0E	0	4.1b,3.9L		¶97ix4034
JMA	IX	26	14	12 20.8±.0	34.41N±.01	138.24E±.01	35±2	3.8		
JMA	**IX**	**26**	**14**	**47 34.5**±.3	**35.88N**±.02	**139.74E**±.02	**74**±3			¶97ix4047
ISC	**IX**	**26**	**21**	**12 48.1**±.52	**34.42N**±.047	**138.25E**±.046	**25**±5.6		**30**	**0-3**
JMA	IX	26	21	12 48.1±.0	34.43N±.00	138.24E±.00	35±1	2.9		¶97ix4145
ISC	**IX**	**28**	**06**	**00 01**±2.6	**34.4N**±.26	**139.7E**±.19	**111**		**9**	**1-2**
JMA	IX	28	06	00 00.8±.3	34.42N±.03	139.61E±.03	111			¶97ix4558
ISC	**IX**	**28**	**19**	**43 55**±1.3	**35.64N**±.060	**139.63E**±.083	**85**±18		**24**	**0-2**
JMA	IX	28	19	43 55.4±.2	35.64N±.01	139.61E±.01	82±2			¶97ix4746
ISC	**IX**	**30**	**07**	**41 09.3**±.68	**35.00N**±.045	**139.98E**±.052	**65**±10		**40**	**0-5**
JMA	IX	30	07	41 09.2±.1	35.00N±.01	139.94E±.01	65±2			¶97ix5163
ISC	**IX**	**30**	**08**	**54 13.9**±.48	**35.03N**±.034	**139.12E**±.042	**8**±5.0		**33**	**0-3**
JMA	IX	30	08	54 14.4±.0	35.03N±.00	139.08E±.01	2±1	2.8		¶97ix5182
ISC	**IX**	**30**	**20**	**33 24.6**±.76	**34.84N**±.062	**137.15E**±.071	**37**±25		**13**	**0-2**
JMA	IX	30	20	33 24.2±.0	34.85N±.00	137.15E±.00	43±1	3.1		¶97ix5308
JMA	**X**	**01**	**02**	**17 23.7**±.2	**35.44N**±.01	**139.33E**±.02	**115**±2			¶97x0010
ISC	**X**	**01**	**15**	**46 46**±1.7	**35.1N**±.11	**139.97E**±.099	**77**±20		**15**	**0-2**
JMA	X	01	15	46 46.2±.1	35.10N±.01	139.95E±.01	69±1	2.6		¶97x0115
ISC	**X**	**01**	**18**	**09 59**±1.4	**34.32N**±.070	**138.72E**±.061	**13**±17		**16**	**0-2**
JMA	X	01	18	09 59.4±.0	34.33N±.00	138.72E±.00	22±2	2.9		¶97x0132
JMA	**X**	**02**	**17**	**01 30.2**±.2	**34.54N**±.02	**139.80E**±.03	**105**±1			¶97x0316
ISC	**X**	**03**	**17**	**23 49**±4.3	**35.6N**±.32	**139.7E**±.63	**77**		**5**	**0-1**
JMA	X	03	17	23 49.3±.2	35.66N±.01	139.64E±.01	77±2	1.9		¶97x0497
ISC	Poorly determined									
ISC	**X**	**03**	**18**	**51 22.6**±.69	**34.50N**±.048	**139.09E**±.095	**6**±12		**11**	**0-2**
JMA	X	03	18	51 23.0±.0	34.49N±.00	139.09E±.00	7±2	3.1		¶97x0512
JMA	**X**	**04**	**01**	**53 08.3**±.4	**34.44N**±.02	**137.38E**±.02	**324**±4			¶97x0557
JMA	**X**	**04**	**06**	**42 03.3**±.1	**35.50N**±.01	**139.42E**±.02	**104**±1			¶97x0597
JMA	**X**	**04**	**08**	**57 44.6**±.2	**35.40N**±.02	**139.42E**±.02	**106**±2			¶97x0616
ISC	**X**	**04**	**12**	**36 06**±1.3	**35.6N**±.12	**139.9E**±.16	**64**		**7**	**0-1**
JMA	X	04	12	36 05.3±.2	35.63N±.01	140.01E±.01	64±2	1.8		¶97x0644
ISC	**X**	**04**	**15**	**01 58**±6.8	**33.8N**±.48	**137.2E**±.20	**386**±53		**16**	**1-7**
JMA	X	04	15	01 57.1±.3	33.78N±.02	137.29E±.01	394±3			¶97x0667
ISC	**X**	**04**	**17**	**26 58**±4.7	**35.1N**±.25	**139.9E**±.20	**101**±46		**9**	**0-1**
JMA	X	04	17	26 59.0±.2	35.14N±.01	139.92E±.01	91±2	2.2		¶97x0694
JMA	**X**	**05**	**01**	**17 12.9**±.4	**34.89N**±.03	**139.97E**±.03	**63**±3	**1.6**		¶97x0775
ISC	**X**	**05**	**08**	**43 57**±2.9	**35.0N**±.28	**139.8E**±.42	**96**		**8**	**0-2**
JMA	X	05	08	43 56.9±.2	35.00N±.01	139.81E±.01	96±2			¶97x0836
ISC	**X**	**05**	**09**	**46 09.0**±.84	**34.90N**±.079	**137.53E**±.077	**32**±9.4		**12**	**0-2**
JMA	X	05	09	46 09.1±.0	34.92N±.00	137.52E±.00	38±1	3.1		¶97x0846
JMA	Nodal plane solution: N26, Score 92%. NP1:ϕ_S143°,δ23°,λ−117°. NP2:ϕ_S353°,δ69°,λ−78°. Principle axes: T Plg24°,Azm74°; N Plg10°,Azm168°; P Plg64°,Azm280°.									
ISC	**X**	**05**	**19**	**42 34**±4.5	**35.6N**±.26	**139.9E**±.65	**119**		**6**	**1-1**
JMA	X	05	19	42 34.8±.2	35.63N±.01	139.72E±.01	119±2			¶97x0921
JMA	**X**	**05**	**20**	**47 13.8**±.2	**34.88N**±.04	**139.81E**±.02	**126**±2			¶97x0932
JMA	**X**	**07**	**07**	**05 01.3**±.1	**35.83N**±.01	**139.82E**±.01	**67**±1	**1.9**		¶97x1198
ISC	**X**	**07**	**22**	**52 53**±1.1	**35.1N**±.18	**139.1E**±.43	**168**		**8**	**0-2**
JMA	X	07	22	52 52.8±.2	35.12N±.01	139.19E±.02	168±2			¶97x1317
ISC	**X**	**08**	**01**	**24 53**±4.2	**34.3N**±.41	**139.1E**±.50	**225**		**6**	**1-4**
JMA	X	08	01	24 53.6±.4	34.37N±.02	139.11E±.04	225±4			¶97x1336
ISC	**X**	**08**	**09**	**40 02.1**±.74	**34.77N**±.042	**137.14E**±.056	**7**±8.5		**17**	**0-2**
JMA	X	08	09	40 02.6±.0	34.77N±.00	137.17E±.00	9±2	3.1		¶97x1383
ISC	**X**	**08**	**15**	**35 52.8**±.60	**34.49N**±.081	**137.64E**±.082	**324**±6.6	3.4b	**33**	**0-58**
JMA	X	08	15	35 54.1±.2	34.46N±.02	137.61E±.02	312±2			¶97x1435
EIDC	X	08	15	35 54.4	34.6N	137.6E	327	3.3b		
ISC	**X**	**08**	**16**	**50 38**±1.0	**34.7N**±.27	**137.2E**±.17	**358**±21	2.6b	**13**	**1-54**
EIDC	X	08	16	50 39.0	34.6N	137.1E	340	2.4b		¶97x1440
JMA	X	08	16	50 40.4±.2	34.80N±.05	137.38E±.03	342			
ISC	**X**	**08**	**19**	**30 17**±3.0	**35.16N**±.075	**139.3E**±.29	**14**±9.5		**8**	**0-2**
JMA	X	08	19	30 17.5±.0	35.16N±.00	139.25E±.00	14±1	3.3		¶97x1462
JMA	Felt I=II J1									
JMA	Nodal plane solution: N85, Score 94%. NP1:ϕ_S311°,δ64°,λ−158°. NP2:ϕ_S210°,δ70°,λ−26°. Principle axes: T Plg4°,Azm261°; N Plg57°,Azm357°; P Plg33°,Azm168°.									
ISC	**X**	**08**	**22**	**26 32**±1.2	**35.6N**±.18	**139.1E**±.44	**116**		**6**	**0-1**
JMA	X	08	22	26 31.9±.2	35.64N±.01	139.14E±.01	116±2			¶97x1487
ISC	**X**	**09**	**17**	**19 36**±1.0	**34.38N**±.078	**139.89E**±.080	**32**±13		**13**	**0-3**
JMA	X	09	17	19 35.5±.1	34.38N±.01	139.88E±.01	43±2	2.8		¶97x1609
ISC	**X**	**09**	**19**	**19 21**±1.5	**35.8N**±.21	**139.4E**±.37	**106**		**7**	**0-1**
JMA	X	09	19	19 21.3±.1	35.80N±.01	139.35E±.01	106±1			¶97x1628
ISC	**X**	**11**	**05**	**44 35.7**±.42	**34.40N**±.030	**138.19E**±.030	**27**±2.9	**5.1b,4.8s**	**242**	**0-161**
NEIC	X	11	05	44 35.5	34.38N	138.15E	28	5.2b,4.5s		¶97x1856
JMA	X	11	05	44 35.6±.1	34.42N±.01	138.23E±.01	36±2	4.9		
BJI	X	11	05	44 36.5	34.40N	138.10E	27	4.9b,5.0s		
EIDC	X	11	05	44 37.0	34.4N	138.1E	24	4.7b,4.5s		
MOS	X	11	05	44 37.8	34.7N	138.2E	33	5.5b,5.0s		
HRVD	X	11	05	44 39.5±.6	34.51N±.10	138.34E±.12	27±7.7			
NEIC	Mw5.2(HRV).									
JMA	Felt I=III J1									
JMA	Nodal plane solution: N149, Score 93%. NP1:ϕ_S261°,δ57°,λ−40°. NP2:ϕ_S17°,δ57°,λ−139°. Principle axes: T Plg0°,Azm139°; N Plg39°,Azm49°; P Plg51°,Azm229°.									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c29; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.88±.36; $M_{\theta\theta}$−1.59±.52; $M_{\phi\phi}$−2.29±.65; $M_{r\theta}$6.32±1.71; $M_{r\phi}$−3.15±1.62; $M_{\theta\phi}$0.78±.40. Principal Axes: T 8.51,Plg57°,Azm22°; N −1.47,Plg5°,Azm121°; P −7.03,Plg33°,Azm214°. Best double couple: $M_0$7.8×10^{16}Nm, NP1: ϕ_S325°,δ13°,λ114°. NP2:ϕ_S120°,δ78°,λ84°.									
ISC	**X**	**11**	**08**	**52 25**±3.4	**35.6N**±.13	**139.4E**±.15	**122**±36		**9**	**0-2**
JMA	X	11	08	52 26.5±.1	35.58N±.01	139.38E±.01	108±1			¶97x1870
ISC	**X**	**13**	**07**	**55 06**±1.2	**34.98N**±.061	**139.1E**±.15	**11**±7.6		**8**	**0-2**
JMA	X	13	07	55 06.9±.0	34.98N±.00	139.11E±.00	7±1	3.5		¶97x2181
JMA	Felt I=II J1									
JMA	Nodal plane solution: N84, Score 96%. NP1:ϕ_S100°,δ61°,λ151°. NP2:ϕ_S206°,δ64°,λ33°. Principle axes: T Plg41°,Azm64°; N Plg49°,Azm240°; P Plg2°,Azm332°.									
ISC	**X**	**13**	**23**	**05 19.2**±.37	**33.60N**±.067	**137.33E**±.069	**352**±3.1	**3.8b**	**53**	**0-151**
BJI	X	13	23	05 18.8	33.60N	137.30E	349	4.2b		¶97x2299
NEIC	X	13	23	05 18.8	33.56N	137.29E	349	4.1b		
JMA	X	13	23	05 19.1±.2	33.65N±.02	137.28E±.02	358±2			
EIDC	X	13	23	05 20.2	33.7N	137.3E	348	3.4b		
NEIC	Less reliable solution.									
JMA	**X**	**14**	**10**	**01 39.2**±.2	**35.81N**±.01	**139.34E**±.01	**109**±2			¶97x2371
ISC	**X**	**14**	**13**	**50 50**±3.9	**34.8N**±.11	**139.6E**±.15	**147**±46		**11**	**1-2**
JMA	X	14	13	50 50.6±.1	34.84N±.01	139.63E±.01	141±2			¶97x2416
ISC	**X**	**14**	**21**	**50 53**±4.0	**34.0N**±.24	**137.4E**±.15	**378**±40		**17**	**1-4**
JMA	X	14	21	50 56.0±.2	34.12N±.03	137.30E±.02	355±2			¶97x2505
ISC	**X**	**15**	**07**	**11 08.9**±.71	**34.84N**±.055	**137.16E**±.065	**38**±23		**15**	**0-2**
JMA	X	15	07	11 08.8±.0	34.85N±.00	137.15E±.00	40±1	2.9		¶97x2584
ISC	**X**	**15**	**07**	**15 09.8**±.96	**35.9N**±.13	**139.2E**±.26	**115**		**8**	**0-1**
JMA	X	15	07	15 09.7±.1	35.89N±.01	139.23E±.01	115±1			¶97x2585
ISC	**X**	**15**	**17**	**31 06**±2.2	**35.0N**±.33	**137.6E**±.37	**314**		**12**	**1-4**
JMA	X	15	17	31 03.9±.3	34.69N±.07	137.45E±.05	314			¶97x2685
JMA	**X**	**16**	**13**	**59 02.1**±.2	**35.89N**±.03	**139.15E**±.03	**150**±2			¶97x2846
JMA	**X**	**16**	**18**	**36 36.6**±.3	**34.87N**±.03	**139.61E**±.03	**100**±4			¶97x2867
JMA	**X**	**16**	**20**	**18 38.2**±.3	**34.51N**±.06	**137.98E**±.04	**296**			¶97x2875
JMA	**X**	**17**	**11**	**39 17.2**±.3	**35.97N**±.04	**139.06E**±.02	**152**±3			¶97x2978
ISC	**X**	**18**	**06**	**22 09.1**±.51	**33.46N**±.097	**137.26E**±.083	**366**±4.9	**3.2b**	**34**	**0-95**
JMA	X	18	06	22 08.8±.2	33.51N±.03	137.23E±.02	373±2			¶97x3113
EIDC	X	18	06	22 10.4	33.5N	137.2E	362	2.9b		
ISC	**X**	**18**	**08**	**58 21**±2.9	**34.9N**±.38	**140.0E**±.26	**67**		**7**	**0-2**
JMA	X	18	08	58 20.9±.3	34.94N±.01	140.04E±.01	67±2	2.6		¶97x3125
ISC	Poorly determined									
ISC	**X**	**18**	**23**	**26 25**±1.5	**33.6N**±.24	**137.3E**±.17	**366**±8.5		**15**	**1-71**
JMA	X	18	23	26 22.4±.1	33.64N±.05	137.20E±.04	396			¶97x3253
ISC	**X**	**19**	**02**	**31 50.7**±.93	**34.44N**±.066	**139.1E**±.13	**7**±13		**10**	**0-2**
JMA	X	19	02	31 51.1±.0	34.44N±.00	139.04E±.00	5±2	3.0		¶97x3275
ISC	**X**	**19**	**05**	**02 11.0**±.67	**34.6N**±.13	**137.0E**±.13	**342**±6.4	**3.2b**	**20**	**0-82**
EIDC	X	19	05	02 03.5	33.3N	137.4E	301	2.9b		¶97x3291
NEIC	X	19	05	02 10.6	34.54N	137.02E	340	3.4b		
JMA	X	19	05	02 11.6±.2	34.65N±.02	136.92E±.01	338±2			
NEIC	Poor solution.									
ISC	**X**	**20**	**22**	**44 07**±2.5	**35.4N**±.34	**139.6E**±.43	**133**		**5**	**0-1**
JMA	X	20	22	44 07.1±.2	35.40N±.01	139.54E±.01	133±2			¶97x3566
ISC	Poorly determined									
ISC	**X**	**21**	**04**	**14 41**±1.8	**33.8N**±.25	**137.9E**±.20	**330**		**15**	**1-5**
JMA	X	21	04	14 41.3±.4	33.94N±.03	137.88E±.02	330±4			¶97x3600
ISC	**X**	**21**	**11**	**10 15**±5.2	**33.5N**±.52	**137.5E**±.60	**397**		**9**	**2-4**
JMA	X	21	11	10 17.3±.3	33.79N±.05	137.74E±.07	397			¶97x3647
JMA	**X**	**21**	**22**	**36 09.6**±.3	**34.52N**±.02	**139.78E**±.02	**100**±2			¶97x3708
ISC	**X**	**22**	**14**	**59 06**±1.4	**35.6N**±.20	**139.3E**±.37	**135**		**7**	**0-1**
JMA	X	22	14	59 06.7±.1	35.61N±.01	139.28E±.01	135±1			¶97x3836
JMA	**X**	**22**	**20**	**30 24.9**±.4	**34.81N**±.03	**139.05E**±.04	**170**±4			¶97x3880
ISC	**X**	**23**	**09**	**48 50**±1.3	**34.8N**±.57	**137.4E**±.55	**314**		**9**	**0-4**
JMA	X	23	09	48 49.9±.2	34.78N±.08	137.38E±.06	314			¶97x3961
JMA	**X**	**23**	**18**	**42 11.7**±.3	**35.88N**±.01	**139.99E**±.02	**65**±3	**1.6**		¶97x4045
ISC	**X**	**24**	**04**	**50 10**±1.8	**34.8N**±.27	**137.1E**±.28	**336**		**8**	**0-4**
JMA	X	24	04	50 09.7±.2	34.78N±.05	137.00E±.05	336			¶97x4111
JMA	**X**	**24**	**13**	**38 39.6**±.4	**34.76N**±.03	**139.73E**±.04	**100**±3			¶97x4173
ISC	**X**	**25**	**20**	**40 16**±2.1	**35.9N**±.28	**139.5E**±.29	**88**		**5**	**0-1**
JMA	X	25	20	40 15.3±.2	35.87N±.01	139.53E±.01	88±1	1.7		¶97x4371
ISC	Poorly determined									
JMA	**X**	**26**	**17**	**57 02.8**±.1	**35.36N**±.01	**139.20E**±.01	**157**±1			¶97x4504
ISC	**X**	**26**	**18**	**11 27**±1.7	**34.99N**±.089	**140.0E**±.10	**66**±23		**13**	**0-2**
JMA	X	26	18	11 27.1±.1	34.99N±.01	139.96E±.01	62±2	2.8		¶97x4507
ISC	**X**	**27**	**13**	**53 17.4**±.78	**34.35N**±.055	**139.2E**±.10	**6**±12		**10**	**0-2**
JMA	X	27	13	53 17.5±.1	34.33N±.01	139.16E±.01	8±2	3.1		¶97x4615
JMA	**X**	**28**	**07**	**35 01.0**±.5	**34.66N**±.03	**139.62E**±.05	**110**			¶97x4725
ISC	**X**	**28**	**17**	**41 14**±2.0	**34.6N**±.74	**137.3E**±.80	**315**		**6**	**1-4**
JMA	X	28	17	41 13.8±.1	34.56N±.05	137.34E±.05	315			¶97x4794
ISC	**X**	**29**	**10**	**18 02.5**±.76	**34.19N**±.059	**139.17E**±.090	**13**±5.5	**3.6b**	**15**	**0-93**
EIDC	X	29	10	18 02.2	34.1N	139.2E	0	3.5b,3.7L		¶97x4893
JMA	X	29	10	18 03.1±.1	34.23N±.01	139.14E±.01	7±2	3.3		
NEIC	X	29	10	18 05.0	34.12N	139.08E	33			
JMA	Felt I=III J1									
JMA	Nodal plane solution: N65, Score 98%. NP1:ϕ_S255°,δ60°,λ33°. NP2:ϕ_S148°,δ62°,λ147°. Principle axes: T Plg43°,Azm111°; N Plg47°,Azm293°; P Plg1°,Azm202°.									
NEIC	Less reliable solution.									
ISC	**X**	**29**	**13**	**48 41**±3.7	**35.3N**±.19	**139.7E**±.14	**73**±56		**8**	**1-2**
JMA	X	29	13	48 39.4±.2	35.24N±.01	139.77E±.02	89±3	2.1		¶97x4919
JMA	**X**	**29**	**21**	**31 50.4**±.4	**34.89N**±.03	**139.90E**±.02	**62**±4	**1.8**		¶97x4953
ISC	**X**	**30**	**10**	**54 54**±5.2	**36.0N**±.20	**139.8E**±.30	**126**±58		**6**	**0-1**
JMA	X	30	10	54 56.2±.2	36.01N±.01	139.79E±.01	106±2			¶97x5024
JMA	**X**	**31**	**01**	**56 43.4**±.3	**34.71N**±.03	**139.74E**±.02	**100**±3			¶97x5115
ISC	**X**	**31**	**05**	**59 10.9**±.67	**34.42N**±.063	**138.24E**±.078	**28**±7.7		**16**	**0-2**
JMA	X	31	05	59 10.9±.1	34.42N±.00	138.25E±.01	34±1	3.0		¶97x5141
JMA	**X**	**31**	**07**	**56 14.8**±.1	**35.68N**±.01	**139.85E**±.01	**114**±2			¶97x5155
ISC	**XI**	**01**	**08**	**14 39**±2.6	**35.0N**±.16	**139.9E**±.10	**66**±32		**11**	**0-1**
JMA	XI	01	08	14 38.7±.2	35.03N±.01	139.93E±.01	64±2	2.2		¶97xi0046
ISC	**XI**	**01**	**11**	**37 05**±1.2	**35.23N**±.053	**139.3E**±.12	**17**±8.8	**3.9b**	**22**	**0-93**
EIDC	XI	01	11	37 03.8	35.2N	139.3E	0	3.9b,4.3L		¶97xi0074
JMA	XI	01	11	37 06.6±.0	35.25N±.00	139.12E±.00	15±1	3.8		
NEIC	XI	01	11	37 06.8	35.20N	139.21E	33			
JMA	Nodal plane solution: N123, Score 100%. NP1:ϕ_S255°,δ20°,λ115°. NP2:ϕ_S49°,δ71°,λ81°. Principle axes: T Plg63°,Azm306°; N Plg8°,Azm52°; P Plg26°,Azm146°.									
NEIC	Less reliable solution.									
NEIC	Felt I=III J1 in southwestern Kanagawa, eastern Shizuoka and eastern Yamanashi Prefectures.									

ISC XI 01 13 12 38±9.4 **34.2N**±.54 **138.7E**±.21 **253**±64 **23 1-4**
JMA XI 01 13 12 43.2±.4 34.53N±.02 138.73E±.02 214±3 **¶97xi0081**
JMA XI 01 18 20 49.9±.2 **35.68N**±.01 **139.66E**±.01 **73**±3 **1.7** **¶97xi0118**
JMA XI 01 23 28 58.0±.4 **34.82N**±.06 **138.97E**±.04 **211** **¶97xi0160**
JMA XI 02 13 00 46.2±.4 **35.72N**±.02 **139.31E**±.02 **114**±3 **¶97xi0263**
ISC XI 03 03 13 27±4.8 **35.8N**±.23 **139.7E**±.75 **76** **6 0-1**
JMA XI 03 03 13 26.6±.1 35.84N±.01 139.77E±.01 76±2 2.0 **¶97xi0388**
ISC Poorly determined
ISC XI 03 19 39 18±1.5 **35.6N**±.19 **139.3E**±.33 **140** **10 0-1**
JMA XI 03 19 39 18.1±.2 35.57N±.01 139.36E±.01 140±1 **¶97xi0509**
ISC XI 04 01 31 07.9±.54 **35.22N**±.048 **139.06E**±.089 **24**±4.4 **4.1b** **39 0-149**
NEIC XI 04 01 31 06.7 35.12N 138.95E 21 4.0b **¶97xi0554**
JMA XI 04 01 31 08.4±.0 35.25N±.00 139.11E±.00 15±1 4.0
EIDC XI 04 01 31 08.5 35.2N 139.0E 19 4.0b,4.9L
NEIC Felt I=V MM, Less reliable solution.
NEIC Felt I=III J1 in northwestern Kanagawa and II J1 in southern Chiba and eastern Yamanashi Prefectures.
JMA Nodal plane solution: N95, Score 94%. NP1:ϕ_S250°,δ31°,λ112°. NP2:ϕ_S46°,δ61°,λ78°. Principle axes: T Plg71°,Azm288°; N Plg11°,Azm52°; P Plg15°,Azm145°.
ISC XI 04 09 36 54±6.3 **35.1N**±.42 **139.6E**±.71 **96** **4 0-2**
JMA XI 04 09 36 54.9±.2 35.13N±.02 139.64E±.02 96 **¶97xi0609**
ISC Poorly determined
ISC XI 04 19 46 23±1.9 **35.7N**±.24 **139.3E**±.95 **142** **5 0-1**
JMA XI 04 19 46 23.1±.1 35.69N±.01 139.31E±.01 142±1 **¶97xi0681**
ISC XI 05 18 10 09±2.2 **35.5N**±.27 **139.4E**±.49 **110** **6 0-1**
JMA XI 05 18 10 09.3±.0 35.52N±.00 139.33E±.01 110±1 **¶97xi0840**
ISC XI 07 19 00 31±1.6 **36.0N**±.47 **139.4E**±.37 **106** **5 0-1**
JMA XI 07 19 00 30.4±.2 35.92N±.01 139.38E±.01 106±2 **¶97xi1159**
ISC Poorly determined
ISC XI 07 23 44 33.0±.53 **34.1N**±.11 **137.06E**±.097 **348**±5.3 **3.0b** **28 0-82**
NEIC XI 07 23 44 32.7 34.06N 137.05E 347 **¶97xi1186**
JMA XI 07 23 44 32.9±.2 34.13N±.02 137.04E±.02 351±2
EIDC XI 07 23 44 33.9 34.1N 137.0E 340 2.9b
NEIC Less reliable solution.
ISC XI 08 21 55 55±4.1 **33.8N**±.26 **137.6E**±.17 **361**±41 **17 1-5**
JMA XI 08 21 55 54.4±.4 33.70N±.04 137.65E±.03 360±4 **¶97xi1357**
ISC XI 09 11 17 21±1.6 **34.97N**±.090 **139.98E**±.099 **69**±19 **14 0-2**
JMA XI 09 11 17 21.2±.1 34.99N±.01 139.97E±.01 64±1 3.0 **¶97xi1440**
JMA XI 09 14 28 03.2±.2 **35.29N**±.01 **139.87E**±.02 **65**±2 **1.9** **¶97xi1458**
ISC XI 10 04 33 04±5.0 **35.0N**±.33 **139.7E**±.18 **93**±46 **9 0-2**
JMA XI 10 04 33 03.9±.3 34.96N±.02 139.72E±.01 92±3 **¶97xi1559**
ISC XI 10 08 01 41±9.0 **34.4N**±.53 **138.7E**±.19 **232**±60 **19 1-4**
JMA XI 10 08 01 45.6±.3 34.65N±.02 138.74E±.02 203±3 **¶97xi1579**
ISC XI 11 14 21 07.0±.66 **34.28N**±.049 **139.18E**±.084 **9**±7.1 3.4b **14 0-54**
EIDC XI 11 14 21 06.5 34.1N 138.8E 0 3.3b,3.3L **¶97xi1806**
JMA XI 11 14 21 07.8±.0 34.31N±.00 139.15E±.01 6±2 3.1
NEIC XI 11 14 21 09.1 34.11N 138.96E 33
NEIC Poor solution.
JMA XI 12 01 47 46.7±.1 **35.58N**±.01 **139.92E**±.02 **98** **¶97xi1916**
ISC XI 13 23 01 08.0±.21 **34.38N**±.041 **137.33E**±.044 **313**±2.2 **4.4b** **108 0-151**
NEIC XI 13 23 01 07.5 34.35N 137.25E 310 4.5b **¶97xi2202**
BJI XI 13 23 01 07.9 34.48N 137.27E 316 4.6b
JMA XI 13 23 01 08.1±.1 34.52N±.01 137.43E±.01 316±1 4.6
EIDC XI 13 23 01 08.1 34.4N 137.3E 300 3.8b
JMA XI 14 03 52 39.5±.1 **35.61N**±.01 **139.05E**±.02 **143**±2 **¶97xi2235**
ISC XI 14 11 55 07±3.1 **33.3N**±.16 **137.70E**±.091 **376**±30 **35 0-4**
JMA XI 14 11 55 07.5±.4 33.34N±.03 137.67E±.02 375±5 **¶97xi2283**
ISC XI 15 12 48 49±5.8 **35.4N**±.16 **139.5E**±.23 **135**±60 **9 0-2**
JMA XI 15 12 48 49.7±.1 35.40N±.01 139.60E±.01 128±2 **¶97xi2474**
JMA XI 16 10 25 52.9±.1 **35.96N**±.00 **139.87E**±.00 **79**±1 **1.7** **¶97xi2634**
ISC XI 16 21 48 15±1.2 **35.7N**±.17 **139.4E**±.27 **104** **6 0-1**
JMA XI 16 21 48 15.2±.1 35.75N±.01 139.39E±.01 104±1 **¶97xi2700**
ISC XI 16 22 28 56±2.8 **35.6N**±.44 **139.2E**±.37 **141** **5 0-1**
JMA XI 16 22 28 56.3±.1 35.60N±.01 139.24E±.01 141±1 **¶97xi2703**
ISC XI 18 05 54 24±5.8 **34.3N**±.74 **139.1E**±.74 **244** **5 1-3**
JMA XI 18 05 54 21.5±.4 33.98N±.03 138.92E±.04 244±5 **¶97xi2917**
JMA XI 19 11 21 10.4±.3 **34.00N**±.04 **138.73E**±.05 **294** **¶97xi3203**
ISC XI 20 00 13 22.9±.59 **34.67N**±.064 **138.25E**±.070 **31**±6.2 **14 0-2**
JMA XI 20 00 13 22.8±.0 34.67N±.00 138.24E±.00 33±1 3.1 **¶97xi3345**
JMA Nodal plane solution: N33, Score 100%. NP1:ϕ_S90°,δ64°,λ23°. NP2:ϕ_S351°,δ70°,λ153°. Principle axes:T Plg34°,Azm308°; NPlg56°,Azm137°; P Plg4°,Azm41°
ISC XI 20 07 42 26±1.3 **34.8N**±.21 **139.9E**±.17 **118** **7 0-2**
JMA XI 20 07 42 25.6±.3 34.81N±.01 139.97E±.02 118±2 **¶97xi3415**
ISC XI 21 17 22 24±1.5 **35.2N**±.16 **139.3E**±.20 **118**±14 **9 0-44**
JMA XI 21 17 22 24.3±.2 35.18N±.01 139.41E±.01 111±2 **¶97xi3693**
ISC XI 22 10 26 52.7±.77 **34.32N**±.055 **139.16E**±.083 **9** **10 0-2**
JMA XI 22 10 26 53.0±.0 34.30N±.00 139.13E±.01 9±2 2.9 **¶97xi3854**
ISC XI 22 11 12 22±5.0 **35.1N**±.17 **139.6E**±.22 **91**±60 **8 0-2**
JMA XI 22 11 12 20.9±.2 35.14N±.01 139.59E±.02 103±2 **¶97xi3858**
ISC XI 22 18 04 24±3.9 **35.3N**±.13 **139.5E**±.17 **107**±41 **8 0-2**
JMA XI 22 18 04 24.6±.1 35.33N±.01 139.50E±.01 99±1 **¶97xi3933**
ISC XI 23 17 32 40±3.5 **35.9N**±.13 **139.5E**±.19 **93**±37 **9 0-2**
JMA XI 23 17 32 41.1±.1 35.92N±.01 139.54E±.01 80±1 2.2 **¶97xi4165**
ISC XI 24 15 35 33±1.3 **34.79N**±.058 **139.3E**±.14 **8**±11 **9 0-2**
JMA XI 24 15 35 33.2±.2 34.79N±.00 139.24E±.01 11±3 2.8 **¶97xi4340**
ISC XI 24 16 12 48±1.8 **35.6N**±.24 **139.2E**±.37 **119** **4 0-1**
JMA XI 24 16 12 48.3±.2 35.60N±.01 139.19E±.01 119±2 **¶97xi4348**
ISC Poorly determined
JMA XI 27 12 42 08.8±.2 **35.26N**±.01 **139.53E**±.02 **112**±2 **¶97xi4858**
ISC XI 28 04 47 14.2±.60 **34.89N**±.061 **138.05E**±.090 **30**±8.3 **14 0-2**
JMA XI 28 04 47 14.4±.0 34.89N±.00 138.05E±.00 32±1 3.0 **¶97xi5010**
ISC XI 28 04 57 53±1.7 **34.2N**±.14 **139.2E**±.17 **13**±15 **5 0-1**
JMA XI 28 04 57 53.2±.1 34.22N±.01 139.18E±.01 12±1 2.8 **¶97xi5014**
ISC Poorly determined
JMA XI 28 18 23 13.6±.1 **35.65N**±.01 **139.52E**±.01 **126**±2 **¶97xi5126**
JMA XI 29 06 51 20.8±.2 **34.63N**±.05 **139.77E**±.03 **89** **1.7** **¶97xi5216**
ISC XI 29 15 01 02±1.3 **35.1N**±.44 **139.8E**±.33 **99** **4 0-1**
JMA XI 29 15 01 01.5±.4 35.01N±.04 139.77E±.03 99±4 **¶97xi5284**
ISC Poorly determined
ISC XI 30 01 27 33±2.9 **35.7N**±.33 **139.8E**±.28 **115** **5 0-1**
JMA XI 30 01 27 32.5±.2 35.70N±.01 139.80E±.01 115±1 **¶97xi5350**
ISC XII 01 03 52 14.5±.75 **34.58N**±.080 **139.83E**±.075 **30** **11 0-1**
JMA XII 01 03 52 14.9±.1 34.58N±.01 139.83E±.01 30±2 2.8 **¶97xii0028**
ISC XII 01 07 11 33±7.5 **35.6N**±.52 **139.9E**±.99 **112** **5 1-1**
JMA XII 01 07 11 33.2±.2 35.64N±.01 139.82E±.01 112±2 **¶97xii0048**
ISC Poorly determined
ISC XII 03 06 08 41±7.6 **35.7N**±.23 **139.5E**±.55 **108**±61 **7 0-1**
JMA XII 03 06 08 42.0±.1 35.67N±.00 139.43E±.01 101±1 **¶97xii0368**
ISC XII 03 14 39 06±1.4 **35.6N**±.12 **140.0E**±.19 **65** **9 0-1**
JMA XII 03 14 39 05.5±.1 35.63N±.01 140.03E±.01 65±2 2.0 **¶97xii0444**

JMA XII 04 08 16 10.0±.1 **35.39N**±.01 **139.28E**±.01 **148**±1 **¶97xii0578**
ISC XII 04 19 37 11.8±.87 **34.22N**±.064 **139.14E**±.085 **5** **10 0-2**
JMA XII 04 19 37 11.8±.1 34.20N±.01 139.13E±.01 5±2 2.9 **¶97xii0678**
JMA Felt I=II J1
ISC XII 05 01 58 57±1.0 **35.3N**±.17 **139.8E**±.25 **92** **5 0-1**
JMA XII 05 01 58 56.2±.2 35.24N±.01 139.70E±.02 92±3 **¶97xii0759**
ISC XII 05 16 24 53±1.7 **35.8N**±.25 **139.4E**±.52 **89** **5 0-1**
JMA XII 05 16 24 52.5±.1 35.84N±.01 139.42E±.01 89±1 2.0 **¶97xii0952**
ISC Poorly determined
JMA XII 05 22 04 48.5±.2 **35.95N**±.01 **139.41E**±.01 **114**±2 **¶97xii1114**
ISC XII 05 23 57 34.5±.62 **34.24N**±.047 **139.12E**±.067 **8** 3.8b **15 0-54**
NEIC XII 05 23 57 33.1 33.95N 138.64E 10 **¶97xii1159**
EIDC XII 05 23 57 33.3±1.37 34.0N 138.7E 0 3.8L,3.7b
JMA XII 05 23 57 35.1±.0 34.27N±.00 139.11E±.01 8±2 3.6
NEIC Felt I=V MM, Poor solution.
NEIC Felt I=III J1 on Kozu-shima; II J1 on Miyake-jima and Nii-jima.
EIDC Error ellipse is semi−major=34.3km semi−minor=14.8km azimuth=71
JMA Nodal plane solution: N108, Score 94%. NP1:ϕ_S266°,δ11°,λ138°. NP2:ϕ_S39°,δ82°,λ82°. Principle axes: T Plg52°,Azm300°; N Plg8°,Azm40°; P Plg37°,Azm136°.
JMA XII 05 23 58 15.7±.1 **34.26N**±.00 **139.06E**±.01 **7**±2 **3.4** **¶97xii1160**
JMA XII 05 23 59 36.4±.1 **34.26N**±.01 **139.08E**±.01 **9**±2 **3.0** **¶97xii1161**
JMA XII 06 00 00 28.9±.1 **34.25N**±.01 **139.07E**±.01 **9**±2 **3.0** **¶97xii1163**
ISC XII 06 01 18 40.1±.80 **34.28N**±.063 **139.1E**±.10 **6**±14 **9 0-2**
JMA XII 06 01 18 40.4±.1 34.27N±.01 139.11E±.01 5±2 3.0 **¶97xii1189**
JMA Felt I=II J1
ISC XII 06 10 10 33±1.0 **34.26N**±.087 **139.1E**±.11 **3**±25 **6 0-1**
JMA XII 06 10 10 32.9±.1 34.26N±.01 139.09E±.01 8±2 2.8 **¶97xii1351**
JMA Felt I=II J1
ISC XII 06 19 33 43±3.7 **35.7N**±.12 **139.5E**±.19 **107**±40 **10 0-1**
JMA XII 06 19 33 43.3±.1 35.67N±.01 139.59E±.01 96±2 **¶97xii1504**
JMA XII 07 06 07 09.8±.2 **35.37N**±.01 **139.40E**±.02 **103**±2 **¶97xii1631**
ISC XII 07 10 19 18±3.3 **35.6N**±.34 **139.3E**±.94 **137** **4 0-1**
JMA XII 07 10 19 18.5±.3 35.65N±.02 139.33E±.02 137±3 **¶97xii1676**
ISC Poorly determined
ISC XII 07 16 01 54±2.0 **34.9N**±.56 **139.8E**±.41 **131** **4 1-1**
JMA XII 07 16 01 53.1±.1 34.74N±.04 139.74E±.04 131 **¶97xii1730**
ISC Poorly determined
ISC XII 11 09 31 42±1.5 **35.00N**±.069 **139.1E**±.15 **7**±13 **7 0-2**
JMA XII 11 09 31 41.9±.0 34.99N±.00 139.11E±.00 7±1 3.1 **¶97xii2535**
ISC XII 12 06 55 36±4.1 **35.3N**±.19 **139.9E**±.16 **75**±54 **9 0-2**
JMA XII 12 06 55 35.8±.2 35.30N±.01 139.93E±.01 79±2 2.4 **¶97xii2707**
JMA XII 12 08 20 04.4±.1 **35.74N**±.01 **139.02E**±.01 **158**±1 **¶97xii2717**
ISC XII 13 05 48 50±3.0 **35.4N**±.28 **139.4E**±.74 **108** **4 0-1**
JMA XII 13 05 48 50.5±.2 35.40N±.01 139.37E±.01 108±2 **¶97xii2895**
ISC Poorly determined
ISC XII 13 20 34 23.7±.41 **34.89N**±.053 **137.51E**±.068 **53**±5.2 **4.0b** **27 0-94**
EIDC XII 13 20 34 18.0±1.13 34.8N 137.5E 0 3.7b **¶97xii3015**
NEIC XII 13 20 34 21.1 34.78N 137.18E 33 4.4b
JMA XII 13 20 34 24.2±.0 34.89N±.00 137.54E±.00 43±1 3.9
EIDC Error ellipse is semi−major=35.1km semi−minor=20.0km azimuth=99
NEIC Less reliable solution.
JMA Felt I=III J1
JMA XII 14 14 34 00.1±.1 **35.60N**±.01 **139.70E**±.02 **116**±2 **¶97xii3160**
ISC XII 15 10 40 06±2.0 **35.99N**±.073 **139.5E**±.22 **67**±22 **12 0-1**
JMA XII 15 10 40 07.0±.1 36.01N±.00 139.49E±.00 64±1 2.4 **¶97xii3271**
ISC XII 16 23 53 07±3.3 **34.8N**±.12 **139.7E**±.18 **115**±37 **8 0-2**
JMA XII 16 23 53 07.3±.2 34.79N±.01 139.72E±.02 105±2 **¶97xii3526**
ISC XII 17 04 39 01±4.0 **35.2N**±.17 **139.8E**±.17 **100**±41 **9 0-2**
JMA XII 17 04 39 02.3±.2 35.25N±.01 139.76E±.01 91±2 2.0 **¶97xii3552**
ISC XII 17 05 06 31.1±.40 **34.44N**±.068 **137.5E**±.11 **308**±4.1 **3.5b** **44 0-151**
NEIC XII 17 05 06 30.8 34.37N 137.34E 301 4.5b **¶97xii3554**
JMA XII 17 05 06 31.5±.2 34.49N±.02 137.49E±.02 307±2
EIDC XII 17 05 06 32.3±2.10 34.4N 137.4E 296±20.8 3.2b
NEIC Poor solution.
EIDC Error ellipse is semi−major=35.0km semi−minor=17.4km azimuth=75
ISC XII 17 15 54 22±2.1 **35.66N**±.082 **139.7E**±.13 **96**±24 **13 0-1**
JMA XII 17 15 54 22.9±.1 35.67N±.01 139.69E±.01 79±1 3.0 **¶97xii3626**
ISC XII 17 22 49 38±1.1 **35.3N**±.17 **139.5E**±.21 **111** **5 0-1**
JMA XII 17 22 49 37.8±.1 35.33N±.01 139.51E±.01 111±2 **¶97xii3674**
ISC XII 18 13 25 25±2.6 **35.6N**±.25 **139.4E**±.49 **101** **5 0-1**
JMA XII 18 13 25 25.1±.2 35.58N±.01 139.40E±.02 101±2 **¶97xii3770**
ISC Poorly determined
ISC XII 19 02 07 24.5±.82 **34.41N**±.066 **139.98E**±.075 **32**±9.0 **14 1-3**
JMA XII 19 02 07 24.5±.1 34.42N±.01 139.96E±.01 40±2 3.2 **¶97xii3874**
ISC XII 19 08 22 29±4.2 **35.5N**±.15 **139.6E**±.20 **76**±54 **6 0-1**
JMA XII 19 08 22 29.6±.1 35.50N±.01 139.63E±.01 62±1 2.1 **¶97xii3917**
ISC XII 19 13 30 15.9±.83 **35.7N**±.12 **139.7E**±.17 **116** **10 0-1**
JMA XII 19 13 30 16.0±.1 35.71N±.01 139.74E±.01 116±2 **¶97xii3971**
JMA XII 19 20 07 24.8±.2 **35.81N**±.01 **139.98E**±.01 **104**±2 **¶97xii4029**
JMA XII 20 14 09 38.0±.2 **35.65N**±.01 **139.79E**±.01 **67**±2 **1.7** **¶97xii4130**
ISC XII 21 06 02 16±4.3 **35.6N**±.15 **139.7E**±.24 **123**±49 **7 0-1**
JMA XII 21 06 02 17.2±.1 35.66N±.01 139.74E±.01 112±1 **¶97xii4224**
JMA XII 21 10 38 06.1±.3 **34.11N**±.04 **138.96E**±.06 **263** **¶97xii4242**
ISC XII 22 02 55 19±3.4 **35.5N**±.14 **140.0E**±.18 **79**±38 **8 0-2**
JMA XII 22 02 55 19.2±.2 35.49N±.01 139.96E±.01 66±2 2.4 **¶97xii4341**
JMA XII 22 09 24 19.0±.1 **35.76N**±.01 **139.25E**±.01 **113**±2 **¶97xii4392**
ISC XII 22 20 19 44.8±.98 **35.53N**±.061 **139.0E**±.12 **21**±21 **9 0-1**
JMA XII 22 20 19 45.0±.0 35.53N±.00 139.01E±.00 21±1 3.0 **¶97xii4481**
ISC XII 23 03 49 32.1±.87 **35.2N**±.14 **139.0E**±.30 **150** **8 0-1**
JMA XII 23 03 49 32.5±.2 35.25N±.01 139.02E±.01 150±2 **¶97xii4538**
ISC XII 23 13 54 59±1.1 **35.6N**±.12 **140.0E**±.13 **60** **7 0-1**
JMA XII 23 13 54 58.6±.2 35.60N±.01 140.00E±.01 60±2 1.8 **¶97xii4611**
ISC XII 23 14 00 11±3.7 **35.3N**±.32 **139.4E**±.84 **110** **5 0-2**
JMA XII 23 14 00 11.1±.2 35.29N±.01 139.41E±.01 110±2 **¶97xii4612**
ISC Poorly determined
JMA XII 23 20 40 40.8±.2 **35.86N**±.01 **139.53E**±.01 **81**±3 **1.7** **¶97xii4654**
ISC XII 23 22 25 28.6±.85 **35.3N**±.16 **139.4E**±.20 **123** **7 0-1**
JMA XII 23 22 25 28.4±.2 35.25N±.01 139.41E±.01 123±2 **¶97xii4661**
ISC XII 24 06 44 43.8±.69 **34.1N**±.12 **137.2E**±.12 **340**±5.3 **3.1b** **30 1-83**
JMA XII 24 06 44 42.3±.1 34.06N±.03 137.18E±.02 357 **¶97xii4715**
NEIC XII 24 06 44 42.8 33.99N 137.21E 335 3.0b
EIDC XII 24 06 44 44.8±2.27 34.0N 137.0E 336±21.7 2.9b
NEIC Poor solution.
EIDC Error ellipse is semi−major=39.7km semi−minor=28.0km azimuth=100
ISC XII 24 08 40 25±1.1 **35.1N**±.18 **139.7E**±.17 **91** **8 1-2**
JMA XII 24 08 40 24.4±.2 35.07N±.01 139.73E±.02 91±3 2.1 **¶97xii4725**
JMA XII 26 02 23 49.1±.3 **34.95N**±.03 **139.91E**±.01 **68**±3 **2.0** **¶97xii5030**
ISC XII 26 06 02 56±6.7 **34.0N**±.80 **137.9E**±.66 **336** **8 2-5**
JMA XII 26 06 02 55.6±.2 33.94N±.04 137.94E±.04 336 **¶97xii5064**
JMA XII 26 08 01 40.6±.2 **34.61N**±.07 **137.40E**±.06 **337** **¶97xii5080**

Agency	mo	d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**26**	**14**	**08**	**17.6±.71**	**34.88N±.094**	**139.6E±.12**	**104**		**11**	**0-2**
JMA	XII	26	14	08	17.5±.1	34.88N±.01	139.60E±.01	104±2			¶97xii5142
ISC	**XII**	**27**	**00**	**58**	**57±1.4**	**36.0N±.27**	**139.2E±.56**	**120**		**5**	**0-1**
JMA	XII	27	00	58	57.2±.3	35.99N±.02	139.20E±.03	120±3			¶97xii5218
ISC	Poorly determined										
ISC	**XII**	**27**	**01**	**43**	**19±1.4**	**35.7N±.12**	**139.5E±.32**	**125**		**8**	**0-1**
JMA	XII	27	01	43	19.0±.1	35.69N±.01	139.56E±.01	125±1			¶97xii5223
JMA	**XII**	**27**	**02**	**03**	**12.0±.2**	**35.89N±.01**	**139.52E±.02**	**95±3**			¶97xii5229
ISC	**XII**	**27**	**17**	**55**	**14±1.4**	**35.6N±.16**	**139.2E±.31**	**117**		**7**	**0-1**
JMA	XII	27	17	55	13.9±.1	35.57N±.01	139.20E±.01	117±1			¶97xii5331
ISC	**XII**	**28**	**14**	**27**	**16±5.1**	**34.4N±.68**	**138.9E±.58**	**236**		**6**	**1-3**
JMA	XII	28	14	27	16.2±.3	34.36N±.03	138.92E±.04	236±4			¶97xii5463
ISC	**XII**	**29**	**04**	**21**	**37±1.1**	**35.6N±.13**	**140.0E±.15**	**66**		**7**	**0-1**
JMA	XII	29	04	21	36.3±.2	35.61N±.01	140.05E±.01	66±2	1.7		¶97xii5544
ISC	**XII**	**30**	**03**	**55**	**12±1.2**	**35.50N±.071**	**139.2E±.16**	**18±24**		**8**	**0-1**
JMA	XII	30	03	55	12.5±.0	35.50N±.00	139.19E±.00	22±1	3.2		¶97xii5677
JMA	**XII**	**30**	**06**	**24**	**03.7±.1**	**35.88N±.02**	**139.12E±.01**	**126±1**			¶97xii5692
ISC	**XII**	**30**	**06**	**40**	**05±5.0**	**35.3N±.14**	**139.6E±.19**	**81±64**		**9**	**0-1**
JMA	XII	30	06	40	04.4±.1	35.35N±.01	139.63E±.01	82±1	1.9		¶97xii5694
ISC	**XII**	**30**	**14**	**18**	**15±8.4**	**35.2N±.21**	**139.9E±.99**	**85**		**5**	**1-1**
JMA	XII	30	14	18	16.8±.2	35.24N±.01	139.69E±.02	85±2	1.9		¶97xii5744
ISC	**XII**	**30**	**21**	**03**	**42±2.2**	**35.1N±.11**	**139.8E±.11**	**97±24**		**13**	**0-2**
JMA	XII	30	21	03	42.1±.1	35.11N±.01	139.75E±.01	92±2	2.6		¶97xii5788
ISC	**XII**	**31**	**05**	**58**	**09±1.7**	**34.6N±.28**	**138.9E±.34**	**209**		**7**	**0-2**
JMA	XII	31	05	58	08.6±.1	34.60N±.02	138.85E±.03	209			¶97xii5841
JMA	**XII**	**31**	**08**	**01**	**26.7±.2**	**35.86N±.02**	**139.96E±.01**	**89±2**	**1.9**		¶97xii5860
ISC	**XII**	**31**	**20**	**32**	**51±8.4**	**34.2N±.87**	**139.6E±.34**	**109**		**6**	**1-2**
JMA	XII	31	20	32	49.5±.2	34.03N±.02	139.53E±.02	109±3			¶97xii5965

SEISMIC REGION 20.
SOUTHWESTERN JAPAN AND RYUKYU ISLANDS.

(231) South Korea.

ISC	**VIII**	**28**	**05**	**59**	**07±8.7**	**34.1N±.34**	**128.0E±.70**	**4**		**8**	**1-3**
JMA	VIII	28	05	59	08.0±.4	34.09N±.02	128.08E±.04	4±5	3.0		¶97viii4091
ISC	**X**	**02**	**14**	**47**	**21±4.8**	**34.6N±.28**	**128.3E±.28**	**0**		**7**	**1-2**
JMA	X	02	14	47	17.3±.3	34.76N±.02	128.12E±.02	0	2.8		¶97x0300

(232) Southern Honshū.

ISC	**VII**	**01**	**02**	**41**	**36±1.1**	**34.44N±.058**	**131.63E±.070**	**0±11**		**15**	**0-2**
JMA	VII	01	02	41	37.2±.2	34.42N±.01	131.64E±.01	9±4	2.8		¶97vii0015
ISC	**VII**	**01**	**03**	**09**	**35.7±.93**	**34.45N±.045**	**131.68E±.044**	**1±8.3**		**28**	**0-2**
JMA	VII	01	03	09	36.3±.0	34.45N±.00	131.69E±.00	11±1	2.9		¶97vii0019
ISC	**VII**	**01**	**08**	**35**	**17.4±.94**	**34.44N±.053**	**131.66E±.047**	**7±8.9**		**24**	**0-2**
JMA	VII	01	08	35	17.8±.0	34.43N±.00	131.67E±.00	14±2	2.9		¶97vii0049
ISC	**VII**	**02**	**21**	**38**	**03.1±.95**	**34.42N±.072**	**131.66E±.083**	**11±11**		**10**	**0-1**
JMA	VII	02	21	38	03.5±.0	34.42N±.00	131.66E±.00	13±1	2.8		¶97vii0301
ISC	**VII**	**02**	**21**	**58**	**00±1.8**	**34.4N±.14**	**131.7E±.11**	**9±23**		**11**	**0-2**
JMA	VII	02	21	58	00.5±.1	34.42N±.00	131.66E±.00	11±2	2.8		¶97vii0304
ISC	Poorly determined										
ISC	**VII**	**02**	**23**	**23**	**12.2±.95**	**34.42N±.051**	**131.67E±.050**	**1±9.0**		**22**	**0-2**
JMA	VII	02	23	23	12.8±.0	34.42N±.00	131.66E±.00	14±1	2.9		¶97vii0320
ISC	**VII**	**03**	**21**	**15**	**22.9±.97**	**34.44N±.060**	**131.65E±.070**	**7±9.6**		**20**	**0-3**
JMA	VII	03	21	15	23.3±.1	34.43N±.01	131.66E±.01	13±2	2.8		¶97vii0452
ISC	**VII**	**04**	**05**	**55**	**12.3±.35**	**34.19N±.060**	**136.79E±.046**	**376±3.7**	**3.4b**	**101**	**0-151**
NEIC	VII	04	05	55	11.7	34.03N	136.81E	366	3.5b		¶97vii0514
JMA	VII	04	05	55	12.5±.1	34.23N±.02	136.72E±.01	379±2			
EIDC	VII	04	05	55	12.7	34.1N	136.9E	360	3.2b		
NEIC	Less reliable solution.										
ISC	**VII**	**07**	**07**	**27**	**47.8±.52**	**34.46N±.049**	**131.64E±.045**	**5**		**24**	**0-2**
JMA	VII	07	07	27	47.8±.2	34.46N±.01	131.65E±.01	5±3	2.9		¶97vii1008
ISC	**VII**	**13**	**03**	**23**	**09.6±.96**	**34.43N±.047**	**131.61E±.045**	**6±8.4**		**25**	**0-2**
JMA	VII	13	03	23	10.2±.1	34.42N±.01	131.64E±.01	12±3	2.9		¶97vii1918
ISC	**VII**	**13**	**13**	**15**	**16.2±.51**	**34.47N±.045**	**131.69E±.046**	**11**		**25**	**0-2**
JMA	VII	13	13	15	16.0±.0	34.46N±.00	131.69E±.00	11±1	3.0		¶97vii1971
ISC	**VII**	**14**	**16**	**47**	**55.8±.52**	**34.48N±.044**	**131.72E±.048**	**9**		**28**	**0-3**
JMA	VII	14	16	47	55.2±.1	34.48N±.01	131.70E±.01	9±2	2.8		¶97vii2177
ISC	**VII**	**15**	**17**	**12**	**27.4±.75**	**34.85N±.039**	**136.74E±.040**	**5±7.8**		**32**	**0-4**
JMA	VII	15	17	12	28.0±.0	34.85N±.01	136.72E±.01	18±2	3.0		¶97vii2326
ISC	**VII**	**16**	**19**	**26**	**10.1±.66**	**35.16N±.043**	**135.29E±.041**	**5±7.5**		**25**	**0-2**
JMA	VII	16	19	26	10.4±.0	35.17N±.00	135.29E±.00	13±1	2.8		¶97vii2483
ISC	**VII**	**17**	**15**	**46**	**35.4±.49**	**34.45N±.044**	**131.64E±.044**	**8**		**27**	**0-3**
JMA	VII	17	15	46	35.1±.1	34.45N±.01	131.65E±.01	8±3	2.9		¶97vii2612
ISC	**VII**	**18**	**12**	**23**	**20.2±.66**	**35.43N±.058**	**133.42E±.057**	**15**		**14**	**0-2**
JMA	VII	18	12	23	20.1±.0	35.41N±.00	133.43E±.00	15±1	2.8		¶97vii2736
ISC	**VII**	**21**	**09**	**48**	**33.8±.31**	**35.09N±.034**	**136.84E±.031**	**18**		**41**	**0-3**
JMA	VII	21	09	48	32.9±.0	35.09N±.00	136.84E±.00	18±2	3.0		¶97vii3224
ISC	**VII**	**24**	**04**	**59**	**48.2±.64**	**35.95N±.029**	**136.58E±.030**	**0±5.8**		**54**	**0-4**
JMA	VII	24	04	59	49.0±.0	35.92N±.00	136.61E±.00	13±1	3.7		¶97vii3622
JMA	Felt I=II J1										
ISC	**VII**	**27**	**16**	**41**	**55±1.6**	**35.3N±.13**	**136.9E±.12**	**332±18**		**40**	**0-6**
JMA	VII	27	16	41	55.8±.2	35.34N±.02	136.85E±.01	329±3			¶97vii4136
ISC	**VII**	**31**	**20**	**37**	**03.1±.51**	**34.83N±.054**	**136.79E±.056**	**41**		**20**	**0-2**
JMA	VII	31	20	37	02.9±.0	34.86N±.00	136.79E±.00	41±1	2.9		¶97vii4787
ISC	**VIII**	**02**	**07**	**55**	**10.1±.56**	**34.82N±.053**	**136.92E±.057**	**30±7.4**		**22**	**0-2**
JMA	VIII	02	07	55	09.9±.0	34.83N±.00	136.92E±.00	39±1	2.8		¶97viii0187
ISC	**VIII**	**03**	**00**	**35**	**40.2±.67**	**35.04N±.046**	**133.09E±.051**	**9±6.1**		**24**	**0-2**
JMA	VIII	03	00	35	40.3±.0	35.02N±.00	133.09E±.00	14±1	2.8		¶97viii0277
ISC	**VIII**	**08**	**08**	**23**	**12.9±.50**	**34.47N±.045**	**131.66E±.044**	**9**		**27**	**0-3**
JMA	VIII	08	08	23	12.8±.1	34.45N±.01	131.66E±.01	9±2	3.2		¶97viii1073
ISC	**VIII**	**08**	**08**	**23**	**53.1±.66**	**34.44N±.050**	**131.64E±.060**	**9**		**36**	**0-4**
JMA	VIII	08	08	23	52.9±.1	34.45N±.01	131.66E±.01	9±3	3.3		¶97viii1074
ISC	**VIII**	**08**	**11**	**59**	**46.1±.89**	**34.45N±.038**	**131.72E±.040**	**1±7.5**		**42**	**0-4**
JMA	VIII	08	11	59	46.7±.0	34.46N±.00	131.71E±.00	10±1	3.5		¶97viii1114
JMA	Felt I=II J1										
ISC	**VIII**	**09**	**13**	**01**	**17.0±.37**	**35.42N±.036**	**136.72E±.039**	**13**		**30**	**0-2**
JMA	VIII	09	13	01	16.4±.1	35.41N±.00	136.72E±.01	13±3	2.8		¶97viii1252
ISC	**VIII**	**10**	**01**	**10**	**19.0±.51**	**35.20N±.044**	**133.35E±.048**	**9**		**22**	**0-3**
JMA	VIII	10	01	10	19.0±.0	35.16N±.00	133.35E±.00	9±2	3.0		¶97viii1333
ISC	**VIII**	**10**	**11**	**31**	**44.5±.29**	**35.38N±.057**	**135.45E±.050**	**373±3.9**	**3.4b**	**106**	**0-152**
NEIC	VIII	10	11	31	43.8	35.21N	135.36E	371	3.9b		¶97viii1386
EIDC	VIII	10	11	31	44.5	35.3N	135.5E	366	3.1b		
JMA	VIII	10	11	31	44.8±.1	35.35N±.01	135.42E±.01	371±1			
NEIC	Less reliable solution.										
ISC	**VIII**	**13**	**10**	**41**	**45.1±.62**	**35.20N±.034**	**136.48E±.034**	**2±6.1**		**34**	**0-3**
JMA	VIII	13	10	41	45.7±.0	35.21N±.00	136.49E±.00	15±1	2.9		¶97viii1892
ISC	**VIII**	**14**	**21**	**57**	**26.9±.58**	**34.80N±.047**	**136.96E±.050**	**31±7.1**		**29**	**0-2**
JMA	VIII	14	21	57	26.4±.0	34.79N±.00	137.00E±.00	39±1	3.2		¶97viii2119
ISC	**VIII**	**15**	**19**	**00**	**44.0±.98**	**34.45N±.073**	**131.68E±.084**	**9±11**		**11**	**0-1**
JMA	VIII	15	19	00	44.4±.1	34.45N±.01	131.68E±.01	11±2	2.8		¶97viii2257
ISC	**VIII**	**21**	**12**	**33**	**18±3.1**	**35.1N±.21**	**132.2E±.22**	**16**		**5**	**0-1**
JMA	VIII	21	12	33	18.7±.4	35.09N±.02	132.23E±.02	16±5	2.8		¶97viii3096
ISC	Poorly determined										
ISC	**VIII**	**21**	**18**	**59**	**43±1.5**	**34.75N±.067**	**131.30E±.057**	**0±11**		**26**	**1-3**
JMA	VIII	21	18	59	43.9±.1	34.72N±.01	131.32E±.01	12±2	2.8		¶97viii3125
ISC	**VIII**	**22**	**23**	**35**	**30.7±.51**	**35.27N±.057**	**133.38E±.041**	**13**		**54**	**0-5**
JMA	VIII	22	23	35	29.8±.0	35.25N±.00	133.38E±.00	13±1	4.0		¶97viii3304
JMA	Felt I=II J1										
ISC	**VIII**	**22**	**23**	**39**	**48.0±.48**	**35.28N±.043**	**133.36E±.042**	**12**		**32**	**0-3**
JMA	VIII	22	23	39	47.5±.0	35.25N±.00	133.38E±.00	12±2	3.1		¶97viii3305
ISC	**VIII**	**22**	**23**	**40**	**18.1±.84**	**35.25N±.059**	**133.37E±.066**	**8±11**		**21**	**0-2**
JMA	VIII	22	23	40	18.4±.0	35.25N±.00	133.38E±.00	11±2	2.8		¶97viii3306
ISC	**VIII**	**24**	**19**	**55**	**28.4±.31**	**34.64N±.033**	**136.58E±.030**	**15**	3.7b	**43**	**0-54**
JMA	VIII	24	19	55	28.1±.1	34.68N±.01	136.55E±.01	15	3.4		¶97viii3583
ISC	**VIII**	**27**	**02**	**41**	**48.2±.57**	**35.29N±.055**	**133.37E±.043**	**14**		**30**	**0-3**
JMA	VIII	27	02	41	47.6±.0	35.25N±.00	133.38E±.00	14±1	3.0		¶97viii3928
ISC	**VIII**	**28**	**18**	**17**	**18.5±.33**	**34.95N±.035**	**136.12E±.034**	**13**		**39**	**0-3**
JMA	VIII	28	18	17	18.1±.0	34.96N±.00	136.08E±.00	13±2	3.3		¶97viii4175
ISC	**VIII**	**30**	**06**	**08**	**16.6±.95**	**34.44N±.056**	**131.66E±.058**	**7±9.0**		**18**	**0-2**
JMA	VIII	30	06	08	16.9±.0	34.44N±.00	131.67E±.00	14±1	2.9		¶97viii4437
ISC	**VIII**	**30**	**06**	**09**	**59.0±.98**	**34.43N±.055**	**131.66E±.058**	**6±10**		**20**	**0-2**
JMA	VIII	30	06	09	59.5±.1	34.44N±.01	131.66E±.01	13±2	2.8		¶97viii4438
ISC	**VIII**	**31**	**03**	**28**	**01±1.0**	**34.58N±.041**	**132.43E±.047**	**14±9.4**		**30**	**0-3**
JMA	VIII	31	03	28	00.9±.0	34.58N±.00	132.43E±.00	21±2	3.0		¶97viii4580
ISC	**IX**	**01**	**08**	**50**	**38.0±.44**	**35.28N±.044**	**133.40E±.037**	**15**		**39**	**0-4**
JMA	IX	01	08	50	37.3±.0	35.26N±.00	133.38E±.00	15±1	3.4		¶97ix0075
ISC	**IX**	**01**	**17**	**07**	**48.3±.72**	**35.27N±.033**	**133.39E±.027**	**1±5.7**	**3.8b**	**89**	**0-63**
NEIC	IX	01	17	07	48.7	35.24N	133.29E	10			¶97ix0143
JMA	IX	01	17	07	48.8±.0	35.25N±.00	133.38E±.00	13±1	4.1		
EIDC	IX	01	17	07	49.2	35.3N	133.3E	0	3.8b,3.4L		
JMA	Felt I=II J1										
ISC	**IX**	**01**	**17**	**09**	**46.3±.57**	**35.29N±.052**	**133.40E±.045**	**13**		**32**	**0-3**
JMA	IX	01	17	09	45.7±.0	35.25N±.00	133.38E±.00	13±1	3.5		¶97ix0144
ISC	**IX**	**01**	**19**	**23**	**57.2±.49**	**35.29N±.045**	**133.37E±.041**	**12**		**30**	**0-3**
JMA	IX	01	19	23	56.9±.0	35.25N±.00	133.38E±.00	12±1	2.9		¶97ix0154
ISC	**IX**	**03**	**20**	**12**	**35±1.1**	**35.28N±.027**	**133.36E±.027**	**14±8.2**	**4.0b**	**123**	**0-83**
BJI	IX	03	20	12	33.0	35.03N	133.84E	38	4.1b,5.3s		¶97ix0475
NEIC	IX	03	20	12	33.1	35.26N	133.29E	10	4.1b		
EIDC	IX	03	20	12	33.6	35.3N	133.2E	0	3.9b,3.7L		
JMA	IX	03	20	12	33.9±.0	35.25N±.00	133.38E±.00	12±1	4.4		
JMA	Felt I=III J1										
ISC	**IX**	**03**	**20**	**15**	**43.7±.64**	**35.27N±.020**	**133.34E±.021**	**11±4.5**	**4.7b,4.8s**	**259**	**0-153**
BJI	IX	03	20	15	36.7	34.98N	133.97E	10	4.8b,5.3s		¶97ix0476
MOS	IX	03	20	15	41.8	35.2N	133.3E	10	5.0b,4.9s		
NEIC	IX	03	20	15	42.8	35.22N	133.22E	10	4.9b,4.7s		
JMA	IX	03	20	15	43.2±.0	35.26N±.00	133.38E±.00	9±2	5.1		
EIDC	IX	03	20	15	46.8	35.3N	133.2E	29	4.2b,4.5s		
HRVD	IX	03	20	15	46.9±.5	35.12N±.06	133.36E±.08	15			
NEIC	Mw5.3(HRV).										
JMA	Felt I=IV J1										

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c28; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.35±.35; $M_{\theta\theta}$6.28±.38; $M_{\phi\phi}$−5.93±.53; $M_{r\theta}$−0.90±1.17; $M_{r\phi}$−4.49±1.49; $M_{\theta\phi}$−4.15±.38. Principal Axes: T 7.59,Plg4°,Azm19°; N 1.89,Plg63°,Azm116°; P −9.49,Plg27°,Azm287°. Best double couple: $M_0$8.5×10^{16}Nm, NP1: ϕ_S66°,δ69°,λ−163°. NP2:ϕ_S330°,δ74°,λ−22°.

ISC	**IX**	**03**	**20**	**23**	**13.4±.56**	**35.28N±.057**	**133.38E±.044**	**12**		**23**	**0-3**
JMA	IX	03	20	23	13.1±.0	35.25N±.00	133.38E±.00	12±1	3.2		¶97ix0478
ISC	**IX**	**03**	**20**	**24**	**54±1.0**	**35.25N±.067**	**133.38E±.059**	**2±12**		**12**	**0-2**
JMA	IX	03	20	24	54.6±.1	35.25N±.01	133.37E±.01	6±2	2.8		¶97ix0479
ISC	**IX**	**03**	**20**	**25**	**51.1±.40**	**35.26N±.044**	**133.37E±.033**	**14**		**50**	**0-4**
JMA	IX	03	20	25	50.2±.0	35.25N±.00	133.38E±.00	14±1	3.7		¶97ix0480
ISC	**IX**	**03**	**20**	**27**	**19.8±.72**	**35.28N±.063**	**133.37E±.056**	**11**		**21**	**0-3**
JMA	IX	03	20	27	19.7±.0	35.26N±.00	133.37E±.00	11±2	3.1		¶97ix0481
ISC	**IX**	**03**	**20**	**31**	**13.1±.55**	**35.27N±.055**	**133.39E±.043**	**11**		**27**	**0-3**
JMA	IX	03	20	31	12.7±.0	35.25N±.00	133.38E±.00	11±2	3.0		¶97ix0483
ISC	**IX**	**03**	**20**	**44**	**10.7±.42**	**35.28N±.042**	**133.37E±.035**	**12**		**42**	**0-4**
JMA	IX	03	20	44	10.0±.0	35.25N±.00	133.38E±.00	12±1	3.2		¶97ix0485
ISC	**IX**	**03**	**20**	**57**	**31.9±.63**	**35.31N±.057**	**133.37E±.046**	**14**		**29**	**0-3**
JMA	IX	03	20	57	31.6±.0	35.27N±.00	133.36E±.00	14±1	2.9		¶97ix0487
ISC	**IX**	**03**	**20**	**59**	**46.2±.71**	**35.32N±.062**	**133.40E±.048**	**13**		**26**	**0-3**
JMA	IX	03	20	59	46.1±.0	35.27N±.00	133.37E±.00	13±1	3.0		¶97ix0488
ISC	**IX**	**03**	**21**	**01**	**44.4±.62**	**35.30N±.059**	**133.35E±.046**	**12**		**25**	**0-2**
JMA	IX	03	21	01	44.1±.0	35.27N±.00	133.36E±.00	12±1	2.8		¶97ix0489
ISC	**IX**	**03**	**21**	**17**	**46.0±.58**	**35.27N±.053**	**133.37E±.047**	**12**		**28**	**0-3**
JMA	IX	03	21	17	45.7±.0	35.24N±.00	133.38E±.00	12±2	2.8		¶97ix0492
ISC	**IX**	**03**	**22**	**17**	**24.4±.53**	**35.29N±.051**	**133.38E±.040**	**11**		**37**	**0-3**
JMA	IX	03	22	17	23.9±.0	35.26N±.00	133.36E±.00	11±2	3.1		¶97ix0499
ISC	**IX**	**03**	**23**	**13**	**24.7±.52**	**35.26N±.051**	**133.37E±.041**	**12**		**32**	**0-3**
JMA	IX	03	23	13	24.3±.0	35.25N±.00	133.38E±.00	12±1	3.2		¶97ix0508
ISC	**IX**	**03**	**23**	**16**	**19.9±.77**	**35.25N±.060**	**133.38E±.049**	**3±8.4**		**20**	**0-2**
JMA	IX	03	23	16	20.3±.0	35.25N±.00	133.36E±.00	12±2	2.9		¶97ix0510
ISC	**IX**	**04**	**00**	**58**	**56.8±.61**	**34.26N±.048**	**132.80E±.045**	**49±18**		**29**	**0-3**
JMA	IX	04	00	58	56.7±.1	34.25N±.01	132.78E±.01	49±2	3.0		¶97ix0521
ISC	**IX**	**04**	**05**	**05**	**08.7±.80**	**35.27N±.076**	**133.39E±.056**	**10**		**24**	**0-3**
JMA	IX	04	05	05	08.4±.0	35.25N±.00	133.38E±.00	10±1	3.0		¶97ix0548
ISC	**IX**	**04**	**21**	**06**	**32.8±.62**	**35.30N±.058**	**133.37E±.046**	**11**		**24**	**0-2**
JMA	IX	04	21	06	32.6±.0	35.27N±.00	133.36E±.00	11±1	2.9		¶97ix0636
ISC	**IX**	**05**	**14**	**19**	**24.0±.54**	**35.27N±.052**	**133.39E±.040**	**12**		**33**	**0-3**
JMA	IX	05	14	19	23.3±.0	35.25N±.00	133.38E±.00	12±1	3.0		¶97ix0755
ISC	**IX**	**05**	**17**	**52**	**27.1±.45**	**35.30N±.043**	**133.36E±.038**	**14**		**38**	**0-4**
JMA	IX	05	17	52	26.5±.0	35.26N±.00	133.37E±.00	14±1	3.1		¶97ix0778
ISC	**IX**	**05**	**20**	**32**	**00.9±.54**	**35.28N±.051**	**133.37E±.042**	**13**		**33**	**0-3**
JMA	IX	05	20	32	00.3±.0	35.26N±.00	133.38E±.00	13±1	3.0		¶97ix0797
ISC	**IX**	**06**	**00**	**59**	**43.5±.51**	**34.01N±.050**	**136.12E±.035**	**56±13**		**48**	**0-4**
JMA	IX	06	00	59	43.4±.1	34.02N±.01	136.11E±.01	55±2	3.3		¶97ix0830
ISC	**IX**	**06**	**17**	**19**	**35.3±.59**	**35.01N±.025**	**135.55E±.023**	**9±4.9**	**3.5b**	**92**	**0-58**
JMA	IX	06	17	19	35.7±.0	35.04N±.00	135.52E±.00	18±1	4.1		¶97ix0948
EIDC	IX	06	17	19	37.7	35.4N	135.8E	0	3.5b,2.8L		
NEIC	IX	06	17	19	40.3	35.34N	135.80E	33			
JMA	Felt I=III J1										
NEIC	Less reliable solution.										
ISC	**IX**	**07**	**04**	**47**	**47.1±.74**	**34.95N±.043**	**132.82E±.045**	**9±7.3**		**31**	**0-4**
JMA	IX	07	04	47	47.3±.0	34.93N±.00	132.84E±.00	16±1	3.0		¶97ix1013
ISC	**IX**	**07**	**16**	**43**	**57.2±.27**	**34.99N±.033**	**136.95E±.029**	**44**		**52**	**0-3**
JMA	IX	07	16	43	57.0±.0	35.03N±.00	136.98E±.00	44±2	3.4		¶97ix1103

ISC	**IX**	**09 15 14 23.9**±.51	**35.31N**±.047	**133.35E**±.045	**11**			**23**	**0-2**	
JMA	IX	09 15 14 23.6±.0	35.28N±.00	133.35E±.00	11±2	2.9		**¶97ix1398**		
ISC	**IX**	**11 13 40 11.4**±.66	**35.21N**±.037	**136.55E**±.035	**6**±6.6			**32**	**0-2**	
JMA	IX	11 13 40 12.0±.0	35.22N±.00	136.54E±.00	17±1	2.9		**¶97ix1682**		
ISC	**IX**	**12 08 37 14**±1.1	**35.47N**±.086	**136.91E**±.072	**323**±13			**61**	**0-6**	
JMA	IX	12 08 37 15.0±.2	35.50N±.02	136.88E±.01	315±2			**¶97ix1788**		
ISC	**IX**	**12 13 35 17.3**±.34	**34.97N**±.036	**136.68E**±.035	**18**			**39**	**0-3**	
JMA	IX	12 13 35 16.4±.0	34.97N±.00	136.65E±.00	18±2	3.0		**¶97ix1819**		
ISC	**IX**	**13 11 21 35.2**±.48	**35.29N**±.044	**133.40E**±.040	**12**			**32**	**0-3**	
JMA	IX	13 11 21 34.6±.0	35.24N±.00	133.38E±.00	12±1	3.1		**¶97ix1965**		
ISC	**IX**	**14 12 32 48.3**±.96	**34.46N**±.073	**131.70E**±.086	**10**±11			**11**	**0-1**	
JMA	IX	14 12 32 48.7±.0	34.46N±.00	131.70E±.00	12±1	2.8		**¶97ix2124**		
ISC	**IX**	**14 23 29 12**±1.1	**35.4N**±.11	**133.85E**±.079	**10**±8.8			**9**	**0-1**	
JMA	IX	14 23 29 12.6±.0	35.37N±.00	133.85E±.00	9±1	2.9		**¶97ix2177**		
ISC	**IX**	**16 03 03 37.0**±.57	**35.26N**±.058	**133.39E**±.046	**13**			**20**	**0-2**	
JMA	IX	16 03 03 36.6±.0	35.24N±.00	133.39E±.00	13±1	3.2		**¶97ix2320**		
ISC	**IX**	**17 22 55 55.1**±.50	**34.47N**±.046	**131.71E**±.046	**11**			**26**	**0-2**	
JMA	IX	17 22 55 54.6±.1	34.47N±.01	131.69E±.01	11±3	3.0		**¶97ix2569**		
ISC	**IX**	**17 23 04 14.2**±.96	**34.46N**±.073	**131.70E**±.085	**10**±11			**11**	**0-2**	
JMA	IX	17 23 04 14.6±.0	34.46N±.00	131.70E±.00	12±1	2.8		**¶97ix2573**		
ISC	**IX**	**19 07 20 18.7**±.59	**34.47N**±.047	**131.70E**±.053	**7**			**23**	**0-2**	
JMA	IX	19 07 20 18.5±.2	34.46N±.01	131.69E±.01	7±4	2.9		**¶97ix2755**		
ISC	**IX**	**22 13 40 26.1**±.43	**35.28N**±.045	**133.37E**±.035	**12**			**53**	**0-4**	
JMA	IX	22 13 40 25.4±.0	35.27N±.00	133.36E±.00	12±1	3.6		**¶97ix3287**		
ISC	**IX**	**22 14 38 08.2**±.47	**35.29N**±.043	**133.37E**±.041	**12**			**32**	**0-3**	
JMA	IX	22 14 38 07.8±.0	35.26N±.00	133.36E±.00	12±2	3.0		**¶97ix3296**		
ISC	**IX**	**23 02 21 27.4**±.61	**35.28N**±.057	**133.37E**±.046	**9**			**24**	**0-3**	
JMA	IX	23 02 21 27.3±.1	35.27N±.01	133.36E±.01	9±3	3.0		**¶97ix3356**		
ISC	**IX**	**23 13 33 18.4**±.46	**35.29N**±.043	**133.37E**±.039	**10**			**33**	**0-3**	
JMA	IX	23 13 33 18.1±.0	35.26N±.00	133.37E±.00	10±2	3.1		**¶97ix3425**		
ISC	**IX**	**24 05 55 23.2**±.64	**35.30N**±.058	**133.37E**±.047	**13**			**25**	**0-3**	
JMA	IX	24 05 55 22.7±.0	35.26N±.00	133.37E±.00	13±1	2.8		**¶97ix3531**		
ISC	**IX**	**25 05 50 52.7**±.40	**35.06N**±.035	**135.49E**±.042	**13**			**26**	**0-2**	
JMA	IX	25 05 50 52.2±.0	35.06N±.00	135.52E±.00	13±2	3.0		**¶97ix3687**		
ISC	**IX**	**25 20 16 23.0**±.49	**35.27N**±.049	**133.39E**±.041	**13**	3.9b		**42**	**0-68**	
JMA	IX	25 20 16 22.4±.0	35.25N±.00	133.38E±.00	13±1	3.7		**¶97ix3788**		
ISC	**IX**	**27 00 17 59.6**±.40	**35.13N**±.036	**135.41E**±.041	**11**			**27**	**0-2**	
JMA	IX	27 00 17 59.3±.0	35.13N±.00	135.42E±.00	11±1	2.9		**¶97ix4194**		
ISC	**IX**	**28 12 09 35.3**±.16	**34.35N**±.028	**136.36E**±.029	**391**±1.8	**4.1b**		**232**	**0-122**	
BJI	IX	28 12 09 34.1	34.20N	136.18E	378	4.7b		**¶97ix4645**		
NEIC	IX	28 12 09 35.1	34.26N	136.17E	384	4.2b				
JMA	IX	28 12 09 35.9±.1	34.35N±.01	136.31E±.01	388±1					
EIDC	IX	28 12 09 36.1	34.2N	136.2E	380	3.6b				
ISC	**IX**	**30 02 23 58.8**±.54	**34.86N**±.051	**136.95E**±.051	**24**±7.9			**23**	**0-2**	
JMA	IX	30 02 23 58.6±.0	34.85N±.01	136.97E±.00	39±2	3.1		**¶97ix5100**		
ISC	**IX**	**30 22 54 08.7**±.91	**35.29N**±.084	**133.35E**±.070	**12**±12			**9**	**0-1**	
JMA	IX	30 22 54 09.1±.0	35.29N±.00	133.35E±.00	13±1	3.0		**¶97ix5327**		
ISC	**X**	**01 06 48 37.7**±.86	**35.25N**±.062	**133.38E**±.068	**11**±11			**9**	**0-1**	
JMA	X	01 06 48 38.1±.0	35.25N±.00	133.38E±.00	12±1	3.1		**¶97x0044**		
ISC	**X**	**02 12 11 38.2**±.71	**35.32N**±.061	**133.34E**±.067	**15**			**9**	**0-1**	
JMA	X	02 12 11 38.5±.0	35.31N±.00	133.34E±.00	15±2	3.3		**¶97x0280**		
ISC	**X**	**02 19 41 41.4**±.91	**35.29N**±.084	**133.35E**±.070	**11**±13			**9**	**0-1**	
JMA	X	02 19 41 41.7±.0	35.28N±.00	133.35E±.00	12±1	2.8		**¶97x0331**		
ISC	**X**	**02 23 49 34.8**±.65	**34.03N**±.051	**132.87E**±.062	**39**±20			**17**	**0-1**	
JMA	X	02 23 49 34.6±.0	34.03N±.00	132.86E±.00	45±1	3.7		**¶97x0356**		
ISC	**X**	**03 03 41 21.6**±.90	**35.27N**±.084	**133.36E**±.070	**12**±13			**9**	**0-1**	
JMA	X	03 03 41 22.0±.0	35.27N±.00	133.36E±.00	12±1	2.8		**¶97x0380**		
ISC	**X**	**06 02 39 36.9**±.64	**34.5N**±.13	**136.4E**±.15	**377**±6.6	**3.4b**		**21**	**0-69**	
EIDC	X	06 02 39 05.7	33.8N	130.8E	0	3.8b,3.8L		**¶97x0971**		
JMA	X	06 02 39 38.0±.3	34.56N±.03	136.27E±.03	368±3					
ISC	**X**	**08 10 06 06.9**±.53	**34.88N**±.045	**136.95E**±.052	**20**			**15**	**0-2**	
JMA	X	08 10 06 07.1±.0	34.89N±.00	136.95E±.00	20±1	3.5		**¶97x1387**		
JMA	Felt I=II J1									
JMA	Nodal plane solution: N41, Score 95%. NP1:ϕ_S244°,δ19°,λ102°. NP2:ϕ_S52°,δ71°,λ86°. Principle axes: T Plg64°,Azm316°; N Plg4°,Azm53°; P Plg26°,Azm145°.									
ISC	**X**	**09 06 37 08.4**±.74	**35.18N**±.052	**135.88E**±.060	**10**±9.6			**11**	**0-2**	
JMA	X	09 06 37 08.8±.0	35.18N±.00	135.88E±.00	12±1	3.2		**¶97x1540**		
ISC	**X**	**10 22 55 26.2**±.98	**35.18N**±.082	**135.51E**±.084	**14**±12			**8**	**0-1**	
JMA	X	10 22 55 26.4±.0	35.18N±.00	135.50E±.00	14±	2.9		**¶97x1810**		
ISC	**X**	**11 02 11 17.9**±.89	**35.00N**±.057	**135.46E**±.081	**12**±11			**9**	**0-1**	
JMA	X	11 02 11 18.2±.0	35.00N±.00	135.46E±.00	14±	2.8		**¶97x1829**		
ISC	**X**	**11 16 41 59.9**±.89	**35.26N**±.083	**133.36E**±.071	**12**±12			**9**	**0-1**	
JMA	X	11 16 42 00.2±.0	35.25N±.00	133.36E±.00	13±1	3.4		**¶97x1912**		
ISC	**X**	**12 03 04 37.7**±.76	**35.24N**±.051	**135.98E**±.062	**11**±9.7			**12**	**0-2**	
JMA	X	12 03 04 38.1±.0	35.24N±.00	135.98E±.00	16±1	3.0		**¶97x1978**		
ISC	**X**	**12 04 48 23**±1.2	**34.9N**±.10	**132.1E**±.11	**15**			**8**	**0-1**	
JMA	X	12 04 48 23.5±.0	34.92N±.00	132.07E±.00	15±1	2.8		**¶97x1988**		
ISC	**X**	**14 03 40 10**±1.0	**35.46N**±.066	**136.64E**±.074	**43**±24			**13**	**0-2**	
JMA	X	14 03 40 09.5±.0	35.46N±.00	136.63E±.00	45±1	2.9		**¶97x2330**		
ISC	**X**	**14 16 54 11.9**±.99	**35.29N**±.094	**133.35E**±.096	**10**±17			**8**	**0-1**	
JMA	X	14 16 54 12.3±.0	35.29N±.00	133.35E±.00	13±1	2.8		**¶97x2450**		
ISC	**X**	**15 19 00 10.5**±.97	**35.27N**±.095	**133.37E**±.096	**11**±16			**8**	**0-1**	
JMA	X	15 19 00 10.9±.0	35.26N±.00	133.37E±.00	12±1	3.2		**¶97x2696**		
ISC	**X**	**16 02 57 58**±1.2	**35.5N**±.23	**136.7E**±.16	**61**			**7**	**0-1**	
JMA	X	16 02 57 57.6±.1	35.50N±.03	136.76E±.02	61	1.8		**¶97x2777**		
ISC	Poorly determined									
ISC	**X**	**16 10 22 11**±6.2	**34.6N**±.46	**136.9E**±.37	**368**±60			**9**	**0-5**	
JMA	X	16 10 22 13.5±.1	34.69N±.04	136.96E±.03	348			**¶97x2822**		
ISC	**X**	**18 05 27 00.5**±.74	**35.30N**±.065	**135.78E**±.056	**8**±11			**10**	**0-1**	
JMA	X	18 05 27 01.0±.0	35.32N±.00	135.77E±.00	12±1	2.8		**¶97x3105**		
ISC	**X**	**18 14 46 22**±1.0	**35.59N**±.073	**136.08E**±.063	**13**±9.9			**11**	**0-2**	
JMA	X	18 14 46 21.9±.0	35.59N±.00	136.09E±.00	12±1	3.1		**¶97x3181**		
ISC	**X**	**22 18 40 21**±1.0	**34.47N**±.078	**131.70E**±.082	**8**±12			**11**	**0-1**	
JMA	X	22 18 40 21.5±.0	34.48N±.00	131.70E±.00	10±1	3.0		**¶97x3869**		
ISC	**X**	**26 08 08 18**±1.3	**35.23N**±.095	**133.3E**±.18	**11**±28			**7**	**0-1**	
JMA	X	26 08 08 18.3±.0	35.23N±.00	133.34E±.00	11±1	2.9		**¶97x4435**		
ISC	**X**	**30 05 50 06.9**±.96	**35.26N**±.095	**133.37E**±.097	**11**±17			**7**	**0-1**	
JMA	X	30 05 50 07.2±.0	35.26N±.00	133.37E±.00	14±1	3.1		**¶97x4999**		
ISC	**XI**	**02 10 53 02**±1.8	**35.02N**±.077	**132.8E**±.10	**12**±16			**8**	**0-1**	
JMA	XI	02 10 53 02.6±.0	35.01N±.00	132.78E±.00	14±1	3.2		**¶97xi0240**		
ISC	**XI**	**02 18 28 39**±1.5	**35.66N**±.096	**135.11E**±.063	**8**±13			**11**	**0-1**	
JMA	XI	02 18 28 39.5±.0	35.66N±.00	135.11E±.00	10±1	3.3		**¶97xi0315**		
ISC	**XI**	**03 09 43 30**±1.6	**35.1N**±.12	**132.4E**±.13	**15**±28			**9**	**1-1**	
JMA	XI	03 09 43 30.4±.0	35.12N±.00	132.38E±.00	14±1	3.1		**¶97xi0446**		
ISC	**XI**	**05 13 59 06**±6.2	**34.9N**±.39	**136.5E**±.22	**358**±64			**13**	**0-4**	
JMA	XI	05 13 59 08.1±.2	35.06N±.04	136.45E±.02	336±2			**¶97xi0813**		
ISC	**XI**	**07 10 47 03.7**±.57	**34.76N**±.050	**136.70E**±.055	**15**			**13**	**0-2**	
JMA	XI	07 10 47 03.6±.0	34.77N±.00	136.72E±.00	15±2	3.1		**¶97xi1117**		
ISC	**XI**	**08 05 59 05**±1.7	**35.2N**±.11	**132.7E**±.13	**10**±20			**7**	**0-1**	
JMA	XI	08 05 59 05.8±.0	35.16N±.00	132.66E±.00	12±1	2.8		**¶97xi1220**		
ISC	**XI**	**09 19 49 09.5**±.83	**35.38N**±.051	**136.42E**±.058	**11**±9.6			**12**	**0-2**	
JMA	XI	09 19 49 09.9±.0	35.39N±.00	136.42E±.00	13±1	3.2		**¶97xi1502**		
ISC	**XI**	**10 05 01 27.1**±.84	**35.05N**±.053	**135.56E**±.079	**12**±10			**10**	**0-1**	
JMA	XI	10 05 01 27.5±.0	35.06N±.00	135.56E±.00	14±1	3.0		**¶97xi1561**		
ISC	**XI**	**12 03 48 48.9**±.95	**35.1N**±.11	**132.61E**±.088	**11**±14			**7**	**0-1**	
JMA	XI	12 03 48 49.2±.0	35.13N±.00	132.61E±.00	11±1	3.0		**¶97xi1930**		
ISC	**XI**	**14 05 46 10**±4.1	**34.3N**±.30	**136.0E**±.21	**401**±41			**16**	**0-4**	
JMA	XI	14 05 46 11.8±.2	34.28N±.02	135.97E±.02	386±2			**¶97xi2248**		
ISC	**XI**	**15 15 28 02.1**±.66	**34.41N**±.054	**132.38E**±.067	**18**			**10**	**0-1**	
JMA	XI	15 15 28 02.3±.0	34.41N±.00	132.38E±.00	18±1	3.0		**¶97xi2499**		
ISC	**XI**	**19 17 00 31**±1.1	**35.0N**±.11	**132.5E**±.12	**13**±16			**7**	**0-1**	
JMA	XI	19 17 00 31.3±.0	35.04N±.00	132.47E±.00	14±1	2.9		**¶97xi3264**		
ISC	**XI**	**20 09 32 43**±1.0	**35.33N**±.062	**133.31E**±.084	**14**±13			**9**	**0-1**	
JMA	XI	20 09 32 43.8±.0	35.33N±.00	133.30E±.00	18±1	3.8		**¶97xi3434**		
ISC	**XI**	**20 09 36 03.0**±.92	**35.33N**±.086	**133.31E**±.072	**13**±12			**9**	**0-1**	
JMA	XI	20 09 36 03.4±.0	35.33N±.00	133.30E±.00	17±1	2.9		**¶97xi3435**		
ISC	**XI**	**20 19 30 16.4**±.80	**35.3N**±.14	**135.6E**±.20	**376**±7.0	**3.1b**		**18**	**0-59**	
EIDC	XI	20 19 29 39.2	35.3N	135.5E	0	3.6b		**¶97xi3521**		
JMA	XI	20 19 30 17.8±.1	35.37N±.02	135.60E±.02	364±1					
ISC	**XI**	**22 04 04 12.0**±.86	**35.52N**±.069	**136.38E**±.064	**12**±10			**10**	**0-1**	
JMA	XI	22 04 04 12.4±.0	35.52N±.00	136.38E±.00	13±1	3.0		**¶97xi3800**		
ISC	**XI**	**25 10 30 18.0**±.62	**34.54N**±.055	**132.92E**±.064	**19**±20			**13**	**0-1**	
JMA	XI	25 10 30 18.2±.0	34.54N±.00	132.91E±.00	20±1	3.0		**¶97xi4490**		
ISC	**XI**	**28 16 54 01.1**±.60	**34.77N**±.042	**136.96E**±.056	**10**			**16**	**0-2**	
JMA	XI	28 16 54 01.2±.0	34.77N±.00	136.99E±.00	10±2	3.1		**¶97xi5115**		
ISC	**XI**	**29 04 43 23.6**±.79	**35.09N**±.075	**134.95E**±.066	**12**±10			**9**	**0-1**	
JMA	XI	29 04 43 24.0±.0	35.08N±.00	134.94E±.00	14±1	2.8		**¶97xi5200**		
ISC	**XI**	**29 04 52 42**±1.1	**34.52N**±.087	**131.76E**±.087	**14**±12			**11**	**0-1**	
JMA	XI	29 04 52 42.4±.0	34.52N±.00	131.76E±.00	16±1	3.3		**¶97xi5202**		
ISC	**XII**	**01 03 32 35.1**±.86	**35.60N**±.074	**136.40E**±.062	**12**±10			**11**	**0-2**	
JMA	XII	01 03 32 35.5±.0	35.60N±.00	136.40E±.00	14±1	3.2		**¶97xii0026**		
ISC	**XII**	**02 05 18 04.8**±.31	**34.02N**±.056	**136.35E**±.061	**385**±3.1	**3.9b**		**63**	**0-95**	
BJI	XII	02 05 18 03.8	34.04N	136.34E	378	4.6b		**¶97xii0187**		
NEIC	XII	02 05 18 04.8	34.00N	136.32E	384	4.2b				
EIDC	XII	02 05 18 05.8±.88	34.0N	136.3E	375±9.5	3.4b				
JMA	XII	02 05 18 05.9±.1	34.01N±.01	136.36E±.01	376±1	4.7				
EIDC	Error ellipse is semi−major=17.4km semi−minor=13.1km azimuth=77									
JMA	Nodal plane solution: N217, Score 94%. NP1:ϕ_S287°,δ55°,λ−10°. NP2:ϕ_S23°,δ81°,λ−144°. Principle axes: T Plg17°,Azm150°; N Plg53°,Azm36°; P Plg31°,Azm251°.									
ISC	**XII**	**05 00 11 40**±1.3	**35.70N**±.086	**136.10E**±.067	**15**±13			**10**	**0-2**	
JMA	XII	05 00 11 40.3±.0	35.69N±.00	136.10E±.00	15±1	3.0		**¶97xii0729**		
ISC	**XII**	**06 16 08 19.5**±.60	**34.96N**±.052	**136.65E**±.058	**15**			**12**	**0-2**	
JMA	XII	06 16 08 19.5±.0	34.98N±.00	136.66E±.00	15±1	2.8		**¶97xii1463**		
ISC	**XII**	**11 16 21 45.9**±.93	**34.59N**±.076	**131.87E**±.087	**15**±8.5			**12**	**0-1**	
JMA	XII	11 16 21 45.9±.0	34.59N±.00	131.88E±.00	16±1	3.2		**¶97xii2601**		
ISC	**XII**	**13 02 05 20.4**±.91	**35.28N**±.083	**133.35E**±.070	**11**±13			**8**	**0-1**	
JMA	XII	13 02 05 20.8±.0	35.28N±.00	133.35E±.00	13±1	2.8		**¶97xii2860**		
ISC	**XII**	**13 18 27 21.8**±.76	**35.35N**±.050	**136.95E**±.056	**10**±8.8			**13**	**0-2**	
JMA	XII	13 18 27 22.2±.0	35.36N±.00	136.95E±.00	13±1	3.4		**¶97xii2994**		
ISC	**XII**	**18 10 15 56**±2.5	**35.6N**±.18	**135.1E**±.10	**11**			**8**	**0-1**	
JMA	XII	18 10 15 57.0±.0	35.61N±.00	135.14E±.00	11±1	2.8		**¶97xii3749**		
ISC	**XII**	**21 00 35 12**±1.0	**34.28N**±.054	**132.92E**±.074	**43**±29			**16**	**0-1**	
JMA	XII	21 00 35 11.2±.0	34.28N±.00	132.90E±.00	49±2	3.1		**¶97xii4187**		
ISC	**XII**	**24 03 17 35.3**±.83	**35.44N**±.082	**135.77E**±.070	**8**±11			**10**	**0-2**	
JMA	XII	24 03 17 35.7±.0	35.45N±.00	135.76E±.00	11±1	3.3		**¶97xii4693**		
ISC	**XII**	**26 10 12 21.0**±.93	**35.23N**±.060	**133.39E**±.077	**1**±15			**8**	**0-4**	
JMA	XII	26 10 12 21.4±.0	35.23N±.00	133.39E±.00	13±1	3.4		**¶97xii5100**		
ISC	**XII**	**26 14 23 31**±1.0	**35.2N**±.11	**133.4E**±.10	**12**±20			**7**	**0-1**	
JMA	XII	26 14 23 31.7±.0	35.23N±.00	133.39E±.00	12±1	2.9		**¶97xii5146**		
ISC	**XII**	**27 00 38 17.7**±.34	**35.31N**±.087	**135.45E**±.081	**374**±4.1	**3.7b**		**44**	**0-95**	
NEIC	XII	27 00 38 17.3	35.28N	135.39E	374	3.6b		**¶97xii5215**		
JMA	XII	27 00 38 18.5±.1	35.35N±.02	135.49E±.01	366±1					
EIDC	XII	27 00 38 19.2±1.18	35.3N	135.3E	375±10.3	3.4b				
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=20.9km semi−minor=17.5km azimuth=82									
ISC	**XII**	**27 12 34 02**±1.0	**34.05N**±.080	**131.03E**±.089	**11**±14			**9**	**0-1**	
JMA	XII	27 12 34 02.1±.0	34.05N±.00	131.01E±.00	13±1	3.1		**¶97xii5289**		
ISC	**XII**	**31 14 20 51**±2.4	**34.5N**±.11	**131.76E**±.085	**11**±19			**9**	**0-1**	
JMA	XII	31 14 20 51.3±.0	34.51N±.00	131.77E±.00	17±1	2.8		**¶97xii5914**		

(233) Near south coast of Southern Honshū.

ISC	**VII**	**10 01 03 58.4**±.94	**34.11N**±.065	**135.13E**±.055	**3**±13			**16**	**0-2**	
JMA	VII	10 01 03 59.0±.0	34.10N±.00	135.14E±.00	11±2	2.8		**¶97vii1425**		
ISC	**VII**	**10 01 28 00.5**±.86	**34.26N**±.061	**135.67E**±.058	**54**±16			**23**	**0-2**	
JMA	VII	10 01 28 00.2±.1	34.26N±.01	135.68E±.01	56±2	2.9		**¶97vii1427**		
ISC	**VII**	**12 11 48 16**±1.3	**33.2N**±.12	**135.10E**±.075	**46**			**19**	**1-3**	
JMA	VII	12 11 48 16.5±.2	33.23N±.02	135.07E±.01	46±4	2.8		**¶97vii1812**		
ISC	**VII**	**15 20 57 16**±1.1	**33.21N**±.058	**135.52E**±.042	**26**±10			**55**	**0-5**	
JMA	VII	15 20 57 15.1±.2	33.19N±.02	135.53E±.01	36±2	3.9		**¶97vii2349**		
ISC	**VII**	**18 22 04 09.8**±.74	**33.69N**±.068	**135.35E**±.049	**56**±13			**47**	**0-5**	
JMA	VII	18 22 04 09.8±.2	33.73N±.01	135.37E±.01	54±2	3.0		**¶97vii2796**		
ISC	**VII**	**19 06 39 27.8**±.61	**33.90N**±.058	**135.20E**±.047	**11**			**22**	**0-2**	
JMA	VII	19 06 39 27.8±.0	33.92N±.01	135.19E±.00	11±2	2.8		**¶97vii2839**		
ISC	**VII**	**20 18 42 53**±2.2	**34.1N**±.11	**135.6E**±.12	**67**±27			**10**	**0-1**	
JMA	VII	20 18 42 53.4±.1	34.09N±.01	135.58E±.01	63±2			**¶97vii3133**		
ISC	**VII**	**22 05 37 59.5**±.40	**34.93N**±.035	**135.68E**±.044	**15**			**27**	**0-2**	
JMA	VII	22 05 37 59.2±.0	34.94N±.00	135.67E±.00	15±1	2.9		**¶97vii3331**		
ISC	**VII**	**29 06 52 16.8**±.57	**34.06N**±.080	**135.48E**±.072	**60**			**15**	**0-3**	
JMA	VII	29 06 52 16.6±.2	34.07N±.01	135.48E±.01	60±3	2.6		**¶97vii4393**		
ISC	**VII**	**29 23 51 42.2**±.46	**33.90N**±.049	**135.03E**±.039	**12**			**32**	**0-3**	
JMA	VII	29 23 51 40.9±.0	33.83N±.00	134.98E±.00	12±2	3.0		**¶97vii4505**		
ISC	**VIII**	**02 18 52 18.8**±.44	**34.12N**±.044	**135.14E**±.040	**12**			**25**	**0-3**	
JMA	VIII	02 18 52 18.1±.0	34.10N±.00	135.10E±.00	12±2	2.8		**¶97viii0248**		
ISC	**VIII**	**03 03 20 52.0**±.97	**33.95N**±.068	**135.52E**±.068	**61**±15			**37**	**0-3**	
JMA	VIII	03 03 20 51.9±.1	33.97N±.01	135.50E±.01	60±2	2.9		**¶97viii0290**		
ISC	**VIII**	**03 11 46 18**±2.1	**33.2N**±.22	**136.6E**±.25	**430**			**29**	**1-7**	
JMA	VIII	03 11 46 17.7±.3	33.16N±.05	136.57E±.06	430			**¶97viii0357**		
ISC	**VIII**	**04 08 10 36**±1.4	**33.9N**±.16	**136.4E**±.19	**33**	3.4b		**5**	**3-69**	
EIDC	VIII	04 08 10 33.8	33.9N	136.5E	0	3.2L,3.4b		**¶97viii0476**		
ISC	**VIII**	**10 01 09 43**±3.9	**33.4N**±.28	**136.0E**±.18	**20**			**7**	**0-1**	
JMA	VIII	10 01 09 42.7±.2	33.40N±.01	136.02E±.01	20±2	2.8		**¶97viii1332**		
ISC	**VIII**	**10 02 35 38**±1.5	**33.98N**±.077	**136.14E**±.076	**13**±12			**20**	**0-2**	
JMA	VIII	10 02 35 38.4±.1	33.99N±.01	136.14E±.01	23±2	2.9		**¶97viii1340**		
ISC	**VIII**	**10 18 25 32.0**±.30	**33.51N**±.037	**135.01E**±.026	**46**±5.7	**3.9b**		**98**	**0-96**	
NEIC	VIII	10 18 25 30.6	33.47N	134.97E	33			**¶97viii1437**		
JMA	VIII	10 18 25 31.9±.1	33.54N±.01	135.02E±.01	51±3	3.9				
EIDC	VIII	10 18 25 32.8	33.5N	135.0E	35	3.8b,3.6L				
JMA	Felt I=II J1									
ISC	**VIII**	**10 19 44 30.8**±.51	**34.17N**±.049	**135.16E**±.046	**11**			**18**	**0-2**	
JMA	VIII	10 19 44 30.8±.0	34.18N±.00	135.14E±.00	11±2	2.8		**¶97viii1450**		

Agency		Origin Time			φ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
ISC	**VIII**	**10**	**21**	**29 52.0**±.84	**34.52N**±.042	**135.31E**±.047	**6**±9.2		**19**	**0-2**
JMA	VIII	10	21	29 52.4±.1	34.52N±.00	135.31E±.01	12±3	2.8	**¶97viii1460**	
ISC	**VIII**	**10**	**22**	**37 33**±1.0	**33.8N**±.11	**135.02E**±.054	**9**±11		**11**	**0-7**
JMA	VIII	10	22	37 33.1±.1	33.82N±.01	135.00E±.00	13±3	2.8	**¶97viii1469**	
ISC	**VIII**	**11**	**10**	**48 39.3**±.60	**34.02N**±.069	**134.01E**±.066	**40**		**13**	**0-2**
JMA	VIII	11	10	48 39.2±.1	34.02N±.01	133.97E±.01	40±2	2.8	**¶97viii1548**	
ISC	**VIII**	**11**	**11**	**49 14**±1.3	**33.75N**±.089	**135.18E**±.066	**12**±11		**14**	**0-2**
JMA	VIII	11	11	49 14.7±.0	33.80N±.01	135.20E±.00	19±2	2.8	**¶97viii1553**	
ISC	**VIII**	**11**	**21**	**27 17**±1.3	**33.92N**±.088	**135.65E**±.080	**64**±17		**21**	**0-3**
JMA	VIII	11	21	27 17.4±.1	33.95N±.01	135.63E±.01	61±2	2.6	**¶97viii1629**	
ISC	**VIII**	**14**	**14**	**02 17**±1.8	**33.3N**±.13	**135.36E**±.081	**24**±10		**21**	**0-3**
JMA	VIII	14	14	02 17.4±.3	33.32N±.02	135.35E±.01	33±3	2.9	**¶97viii2074**	
ISC	**VIII**	**17**	**04**	**05 09**±1.5	**33.8N**±.12	**135.15E**±.073	**53**±24		**14**	**0-2**
JMA	VIII	17	04	05 08.7±.2	33.81N±.02	135.15E±.01	51±3	2.9	**¶97viii2482**	
ISC	**VIII**	**21**	**12**	**23 04.3**±.37	**34.16N**±.040	**135.09E**±.035	**11**		**31**	**0-3**
JMA	VIII	21	12	23 03.9±.0	34.16N±.00	135.07E±.00	11±2	3.0	**¶97viii3094**	
ISC	**VIII**	**26**	**03**	**13 19.2**±.65	**34.34N**±.034	**134.65E**±.031	**0**±6.4		**39**	**1-4**
JMA	VIII	26	03	13 20.2±.0	34.31N±.00	134.63E±.00	17±2	3.5	**¶97viii3776**	
ISC	**VIII**	**27**	**05**	**27 54.1**±.47	**34.92N**±.041	**135.63E**±.049	**15**		**23**	**0-2**
JMA	VIII	27	05	27 54.0±.0	34.93N±.00	135.64E±.00	15±2	2.8	**¶97viii3943**	
ISC	**VIII**	**28**	**04**	**09 43.1**±.40	**34.52N**±.036	**134.88E**±.041	**9**		**29**	**0-2**
JMA	VIII	28	04	09 43.2±.0	34.52N±.00	134.87E±.00	9±1	2.9	**¶97viii4081**	
ISC	**VIII**	**29**	**05**	**11 27.3**±.39	**34.10N**±.046	**134.32E**±.042	**50**		**31**	**0-4**
JMA	VIII	29	05	11 26.8±.1	34.09N±.01	134.32E±.01	50±2	3.2	**¶97viii4238**	
ISC	**VIII**	**29**	**14**	**44 16.9**±.36	**34.74N**±.035	**135.97E**±.037	**12**		**31**	**0-3**
JMA	VIII	29	14	44 16.6±.0	34.77N±.00	135.98E±.00	12±2	2.8	**¶97viii4328**	
ISC	**IX**	**08**	**22**	**36 23**±1.2	**33.91N**±.085	**135.41E**±.079	**62**±17		**27**	**0-2**
JMA	IX	08	22	36 22.5±.1	33.92N±.01	135.40E±.01	60±2	2.7	**¶97ix1289**	
ISC	**IX**	**10**	**15**	**10 28.2**±.32	**33.99N**±.039	**136.53E**±.026	**43**±17		**79**	**0-6**
JMA	IX	10	15	10 28.0±.1	34.02N±.01	136.54E±.00	48±2	3.7	**¶97ix1537**	
ISC	**IX**	**12**	**11**	**59 18.0**±.74	**34.05N**±.051	**135.29E**±.050	**5**±9.5		**16**	**0-2**
JMA	IX	12	11	59 18.5±.0	34.04N±.00	135.30E±.00	10±2	2.8	**¶97ix1811**	
ISC	**IX**	**13**	**10**	**28 04.2**±.78	**34.05N**±.048	**135.31E**±.052	**5**±9.3		**20**	**0-2**
JMA	IX	13	10	28 04.6±.0	34.04N±.00	135.31E±.00	11±1	2.8	**¶97ix1963**	
ISC	**IX**	**14**	**06**	**25 57**±1.0	**33.69N**±.068	**135.31E**±.053	**7**±8.6		**22**	**0-3**
JMA	IX	14	06	25 56.8±.1	33.69N±.01	135.33E±.01	16±2	3.1	**¶97ix2083**	
ISC	**IX**	**14**	**19**	**48 02.6**±.36	**34.52N**±.035	**134.78E**±.037	**15**		**33**	**0-3**
JMA	IX	14	19	48 02.3±.0	34.51N±.00	134.77E±.00	15±1	3.4	**¶97ix2162**	
ISC	**IX**	**14**	**22**	**43 43.0**±.86	**34.89N**±.049	**134.65E**±.050	**13**±8.7		**16**	**0-2**
JMA	IX	14	22	43 43.3±.0	34.89N±.00	134.65E±.00	13±2	2.8	**¶97ix2174**	
ISC	**IX**	**16**	**01**	**35 07.8**±.64	**34.94N**±.032	**135.55E**±.036	**0**±6.6		**30**	**0-3**
JMA	IX	16	01	35 08.5±.0	34.95N±.00	135.56E±.00	12±2	3.0	**¶97ix2307**	
ISC	**IX**	**16**	**05**	**28 11.0**±.83	**34.66N**±.037	**135.98E**±.030	**14**±6.8	**3.6b**	**50**	**0-95**
EIDC	IX	16	05	28 09.0	34.6N	136.0E	0	3.0L,3.6b	**¶97ix2337**	
JMA	IX	16	05	28 11.0±.0	34.67N±.00	135.98E±.00	17±2	3.9		
NEIC	IX	16	05	28 12.1	34.64N	135.92E	33			
JMA	Felt I=II J1									
NEIC	Less reliable solution.									
ISC	**IX**	**17**	**07**	**56 26.5**±.71	**34.85N**±.039	**134.83E**±.034	**6**±7.0		**38**	**0-3**
JMA	IX	17	07	56 27.0±.0	34.85N±.00	134.79E±.00	14±1	3.5	**¶97ix2484**	
ISC	**IX**	**18**	**21**	**22 56.1**±.63	**33.4N**±.11	**136.11E**±.099	**435**±7.2	**3.3b**	**44**	**1-70**
JMA	IX	18	21	22 52.2±.2	33.21N±.05	136.02E±.03	468		**¶97ix2716**	
NEIC	IX	18	21	22 55.8	33.42N	136.08E	430			
EIDC	IX	18	21	22 57.0	33.5N	136.2E	427	3.1b		
NEIC	Less reliable solution.									
ISC	**IX**	**22**	**05**	**07 09**±1.9	**33.86N**±.099	**136.17E**±.093	**15**±14		**11**	**0-2**
JMA	IX	22	05	07 08.6±.2	33.85N±.02	136.17E±.02	30±4	2.8	**¶97ix3220**	
ISC	**IX**	**23**	**00**	**37 01**±1.0	**33.99N**±.061	**136.93E**±.053	**8**±8.4		**21**	**0-3**
JMA	IX	23	00	37 01.6±.1	33.99N±.01	136.92E±.01	22±4	3.0	**¶97ix3344**	
ISC	**IX**	**26**	**23**	**01 30.2**±.84	**34.89N**±.046	**134.66E**±.038	**9**±8.5		**28**	**0-2**
JMA	IX	26	23	01 30.5±.0	34.89N±.00	134.65E±.00	12±2	2.9	**¶97ix4173**	
ISC	**X**	**04**	**10**	**09 55.8**±.92	**33.97N**±.086	**136.01E**±.085	**15**		**8**	**0-3**
JMA	X	04	10	09 55.9±.0	33.99N±.00	136.01E±.00	15±1	3.0	**¶97x0624**	
ISC	**X**	**05**	**15**	**50 36**±1.7	**33.5N**±.15	**135.5E**±.13	**29**±12		**7**	**0-1**
JMA	X	05	15	50 35.5±.1	33.43N±.01	135.50E±.00	30±1	2.8	**¶97x0884**	
ISC	**X**	**11**	**08**	**24 21**±1.1	**34.04N**±.069	**135.27E**±.093	**13**±11		**8**	**0-3**
JMA	X	11	08	24 21.0±.0	34.04N±.00	135.26E±.00	10±1	3.6	**¶97x1863**	
JMA	Nodal plane solution: N40, Score 98%. NP1:ϕ_S237°,δ34°,λ178°. NP2:ϕ_S331°,δ88°,λ56°. Principle axes: T Plg37°,Azm210°; N Plg34°,Azm331°; P Plg34°,Azm89°.									
JMA	Felt I=II J1									
ISC	**X**	**16**	**19**	**22 00.5**±.94	**33.82N**±.088	**135.30E**±.096	**11**±10		**7**	**0-1**
JMA	X	16	19	22 00.8±.0	33.81N±.00	135.29E±.00	11±1	2.8	**¶97x2871**	
ISC	**X**	**18**	**20**	**44 51**±2.0	**33.7N**±.14	**135.12E**±.092	**46**±36		**9**	**0-1**
JMA	X	18	20	44 51.2±.1	33.72N±.01	135.12E±.00	48±1	3.0	**¶97x3231**	
ISC	**X**	**23**	**17**	**18 06.5**±.86	**34.69N**±.066	**135.19E**±.082	**14**		**10**	**0-3**
JMA	X	23	17	18 06.6±.0	34.70N±.00	135.20E±.00	14±1	3.5	**¶97x4033**	
JMA	Felt I=II J1									
JMA	Nodal plane solution: N52, Score 96%. NP1:ϕ_S260°,δ46°,λ141°. NP2:ϕ_S20°,δ63°,λ52°. Principle axes: T Plg55°,Azm240°; N Plg33°,Azm39°; P Plg10°,Azm136°.									
ISC	**X**	**26**	**12**	**36 25**±1.2	**34.28N**±.059	**135.2E**±.11	**9**±18		**8**	**0-1**
JMA	X	26	12	36 25.8±.0	34.28N±.00	135.24E±.00	11±1	2.9	**¶97x4460**	
ISC	**X**	**29**	**06**	**15 15.0**±.98	**33.87N**±.089	**135.28E**±.091	**12**±9.7		**7**	**0-1**
JMA	X	29	06	15 15.4±.0	33.87N±.00	135.26E±.00	10±2	3.4	**¶97x4864**	
ISC	**XI**	**01**	**01**	**19 13**±2.7	**34.1N**±.14	**135.5E**±.16	**71**±31		**9**	**0-1**
JMA	XI	01	01	19 13.6±.1	34.16N±.00	135.53E±.00	65±1	2.2	**¶97xi0006**	
ISC	**XI**	**02**	**09**	**18 45.7**±.31	**33.69N**±.060	**135.74E**±.063	**426**±3.6	**3.7b**	**50**	**0-70**
NEIC	XI	02	09	18 45.5	33.70N	135.73E	425	4.0b	**¶97xi0228**	
BJI	XI	02	09	18 45.6	33.48N	135.68E	428	4.5b		
JMA	XI	02	09	18 46.8±.1	33.75N±.01	135.69E±.01	417±1			
EIDC	XI	02	09	18 47.3	33.7N	135.7E	428	3.3b		
ISC	**XI**	**04**	**19**	**22 40.6**±.65	**34.89N**±.052	**135.15E**±.062	**15**		**12**	**0-3**
JMA	XI	04	19	22 40.6±.0	34.88N±.00	135.16E±.00	15±1	3.5	**¶97xi0676**	
JMA	Felt I=II J1									
ISC	**XI**	**04**	**23**	**30 06**±1.4	**33.5N**±.15	**135.08E**±.082	**21**		**6**	**0-1**
JMA	XI	04	23	30 06.5±.1	33.49N±.01	135.08E±.00	21±2	2.8	**¶97xi0706**	
ISC	**XI**	**06**	**15**	**18 38.2**±.53	**34.66N**±.046	**134.39E**±.052	**15**		**15**	**0-4**
JMA	XI	06	15	18 38.3±.0	34.66N±.00	134.40E±.00	15±1	3.6	**¶97xi0996**	
ISC	**XI**	**08**	**13**	**15 24**±1.3	**34.12N**±.064	**134.5E**±.10	**6**±20		**8**	**0-1**
JMA	XI	08	13	15 24.6±.0	34.11N±.00	134.46E±.00	7±1	2.8	**¶97xi1285**	
ISC	**XI**	**09**	**12**	**13 34**±1.2	**34.45N**±.045	**133.28E**±.057	**15**±13		**16**	**0-1**
JMA	XI	09	12	13 34.0±.0	34.45N±.00	133.28E±.00	16±1	3.1	**¶97xi1444**	
ISC	**XI**	**13**	**05**	**57 00**±1.3	**33.9N**±.10	**136.2E**±.11	**15**		**6**	**0-1**
JMA	XI	13	05	57 00.3±.0	33.93N±.00	136.16E±.00	15±1	2.9	**¶97xi2086**	
ISC	**XI**	**18**	**18**	**28 26.9**±.96	**34.15N**±.061	**135.40E**±.091	**10**±11		**8**	**0-3**
JMA	XI	18	18	28 27.3±.0	34.14N±.00	135.38E±.00	9±1	3.3	**¶97xi3037**	
JMA	Felt I=II J1									
ISC	**XI**	**18**	**23**	**41 14**±5.4	**33.7N**±.70	**136.4E**±.41	**422**±47		**10**	**1-5**
JMA	XI	18	23	41 16.8±.3	33.85N±.07	136.49E±.05	393		**¶97xi3088**	
ISC	**XI**	**23**	**20**	**26 37.0**±.78	**34.74N**±.047	**133.59E**±.053	**10**±9.8		**13**	**0-1**
JMA	XI	23	20	26 37.5±.0	34.73N±.00	133.59E±.00	14±1	3.2	**¶97xi4188**	
ISC	**XI**	**24**	**19**	**19 07**±1.4	**34.89N**±.056	**135.93E**±.069	**14**±16		**13**	**0-2**
JMA	XI	24	19	19 07.5±.0	34.89N±.00	135.92E±.00	13±1	3.1	**¶97xi4369**	
ISC	**XI**	**25**	**15**	**27 09**±1.2	**33.7N**±.11	**135.31E**±.082	**40**±24		**11**	**0-1**
JMA	XI	25	15	27 08.6±.0	33.70N±.00	135.32E±.00	44±1	2.8	**¶97xi4540**	
ISC	**XI**	**26**	**15**	**21 51**±1.4	**33.6N**±.14	**135.3E**±.11	**35**±26		**8**	**0-1**
JMA	XI	26	15	21 51.2±.1	33.57N±.01	135.32E±.01	41±1	3.0	**¶97xi4711**	
ISC	**XII**	**05**	**15**	**02 28**±1.4	**34.06N**±.087	**135.3E**±.12	**11**±14		**6**	**0-1**
JMA	XII	05	15	02 28.8±.0	34.05N±.00	135.29E±.00	8±1	3.2	**¶97xii0921**	
ISC	**XII**	**06**	**04**	**09 54.7**±.73	**34.58N**±.055	**134.96E**±.077	**15**		**10**	**0-1**
JMA	XII	06	04	09 54.8±.0	34.57N±.00	134.96E±.00	15±1	2.9	**¶97xii1243**	
ISC	**XII**	**06**	**19**	**40 13**±1.1	**34.10N**±.071	**135.08E**±.063	**8**±14		**9**	**0-1**
JMA	XII	06	19	40 13.6±.0	34.09N±.00	135.09E±.00	10±1	3.0	**¶97xii1507**	
ISC	**XII**	**07**	**04**	**14 46**±2.4	**33.4N**±.20	**135.8E**±.15	**29**±9.5		**8**	**0-1**
JMA	XII	07	04	14 45.7±.1	33.43N±.01	135.76E±.01	32±1	2.9	**¶97xii1608**	
ISC	**XII**	**09**	**16**	**17 06**±2.9	**33.0N**±.37	**136.6E**±.35	**433**		**14**	**1-5**
JMA	XII	09	16	17 05.7±.4	33.01N±.07	136.71E±.07	433		**¶97xii2201**	
ISC	**XII**	**12**	**07**	**05 54**±2.6	**33.5N**±.21	**135.8E**±.15	**25**±11		**7**	**0-1**
JMA	XII	12	07	05 54.2±.1	33.46N±.01	135.83E±.00	28±1	3.0	**¶97xii2710**	
ISC	**XII**	**14**	**03**	**22 45**±1.2	**34.02N**±.073	**135.23E**±.099	**12**±13		**7**	**0-1**
JMA	XII	14	03	22 45.6±.0	34.02N±.00	135.21E±.00	9±1	3.3	**¶97xii3074**	
JMA	Felt I=II J1									
ISC	**XII**	**15**	**13**	**25 04**±2.2	**34.1N**±.10	**135.6E**±.10	**62**±30		**13**	**0-1**
JMA	XII	15	13	25 04.0±.1	34.08N±.00	135.61E±.00	61±1	2.3	**¶97xii3293**	
ISC	**XII**	**19**	**13**	**57 04**±2.1	**34.2N**±.10	**135.6E**±.11	**71**±26		**11**	**0-1**
JMA	XII	19	13	57 04.0±.1	34.20N±.00	135.60E±.00	67±1	2.5	**¶97xii3973**	
ISC	**XII**	**22**	**13**	**28 10.3**±.94	**34.46N**±.043	**133.37E**±.056	**12**±10		**15**	**0-1**
JMA	XII	22	13	28 10.5±.0	34.45N±.00	133.37E±.00	13±1	2.9	**¶97xii4428**	
ISC	**XII**	**22**	**18**	**17 45**±1.3	**33.8N**±.10	**135.68E**±.095	**39**±24		**10**	**0-3**
JMA	XII	22	18	17 45.0±.0	33.84N±.00	135.67E±.00	43±1	3.0	**¶97xii4464**	
ISC	**XII**	**24**	**15**	**56 41**±1.5	**33.5N**±.16	**135.5E**±.10	**23**		**6**	**0-1**
JMA	XII	24	15	56 40.9±.0	33.51N±.00	135.48E±.00	23±1	2.9	**¶97xii4785**	
ISC	**XII**	**24**	**20**	**35 38**±1.5	**34.68N**±.055	**135.03E**±.076	**12**±17		**10**	**0-1**
JMA	XII	24	20	35 37.8±.0	34.68N±.00	135.02E±.00	13±1	3.0	**¶97xii4819**	
ISC	**XII**	**26**	**00**	**38 41**±1.0	**33.9N**±.22	**136.9E**±.17	**375**		**8**	**0-4**
JMA	XII	26	00	38 41.2±.2	33.95N±.05	136.90E±.04	375		**¶97xii5016**	
ISC	**XII**	**27**	**01**	**08 14.4**±.43	**34.12N**±.047	**135.06E**±.047	**11**	**4.1b**	**24**	**0-69**
JMA	XII	27	01	08 14.8±.0	34.15N±.00	135.06E±.00	11±1	3.8	**¶97xii5219**	
NEIC	XII	27	01	08 17.1	34.12N	135.08E	33	4.0b		
EIDC	XII	27	01	08 20.5±2.84	34.2N	135.0E	46±30.1	3.6b,3.8L		
JMA	Nodal plane solution: N53, Score 94%. NP1:ϕ_S197°,δ36°,λ113°. NP2:ϕ_S351°,δ57°,λ75°. Principle axes: T Plg73°,Azm221°; N Plg13°,Azm358°; P Plg11°,Azm91°.									
NEIC	Less reliable solution.									
NEIC	Felt I=II J1 in northwestern Wakayama Prefecture.									
EIDC	Error ellipse is semi−major=23.7km semi−minor=19.6km azimuth=93									
ISC	**XII**	**28**	**10**	**29 57**±1.6	**34.22N**±.081	**135.73E**±.087	**64**±22		**14**	**0-1**
JMA	XII	28	10	29 57.4±.1	34.24N±.00	135.73E±.00	62±1	2.3	**¶97xii5441**	
ISC	**XII**	**28**	**15**	**48 08**±1.7	**34.33N**±.075	**135.61E**±.091	**67**±23		**13**	**0-1**
JMA	XII	28	15	48 07.8±.1	34.34N±.00	135.61E±.00	65±1	2.1	**¶97xii5472**	
ISC	**XII**	**30**	**20**	**54 50**±1.8	**34.13N**±.096	**135.52E**±.095	**63**±24		**13**	**0-1**
JMA	XII	30	20	54 49.9±.1	34.13N±.00	135.52E±.00	60±1	2.2	**¶97xii5786**	
ISC	**XII**	**31**	**02**	**29 58**±1.5	**34.70N**±.076	**134.83E**±.079	**13**±17		**10**	**0-1**
JMA	XII	31	02	29 58.7±.0	34.70N±.00	134.83E±.00	13±1	3.0	**¶97xii5823**	
ISC	**XII**	**31**	**06**	**20 43**±1.5	**34.01N**±.097	**135.49E**±.088	**72**±19		**14**	**0-3**
JMA	XII	31	06	20 43.7±.1	34.03N±.00	135.47E±.00	64±1	3.2	**¶97xii5844**	
ISC	**XII**	**31**	**22**	**27 42**±1.1	**34.13N**±.057	**135.16E**±.065	**11**±9.3	**3.6b**	**14**	**0-57**
JMA	XII	31	22	27 42.6±.0	34.14N±.00	135.15E±.00	10±1	3.4	**¶97xii5987**	
EIDC	XII	31	22	27 42.7±1.21	34.1N	135.2E	0	3.5b,4.2L		
JMA	Felt I=III J1									
EIDC	Error ellipse is semi−major=35.0km semi−minor=21.7km azimuth=77									

(234) East China Sea.

ISC	**VII**	**02**	**07**	**07 38**±6.9	**28.0N**±.52	**126.7E**±.57	**155**		**7**	**1-5**
JMA	VII	02	07	07 39.1±.7	27.91N±.06	126.84E±.05	155		**¶97vii0197**	
ISC	**VII**	**03**	**11**	**17 08**±4.2	**27.2N**±.16	**126.8E**±.31	**158**±38		**10**	**1-4**
JMA	VII	03	11	17 09.2±.4	27.23N±.03	126.83E±.04	143		**¶97vii0401**	
ISC	**VII**	**04**	**04**	**46 36**±5.8	**27.2N**±.36	**126.2E**±.56	**137**		**6**	**1-2**
JMA	VII	04	04	46 37.4±.5	27.09N±.04	126.36E±.05	137		**¶97vii0498**	
ISC	**VII**	**07**	**19**	**14 34**±1.2	**28.9N**±.13	**127.7E**±.22	**218**±15	3.3b	**13**	**2-76**
JMA	VII	07	19	14 36.3±.2	28.90N±.02	127.77E±.03	185		**¶97vii1078**	
ISC	**VII**	**09**	**18**	**24 32.9**±.31	**27.22N**±.039	**126.77E**±.051	**159**±5.0	**3.9b**	**48**	**1-122**
BJI	VII	09	18	24 31.7	27.41N	127.11E	170	4.6b	**¶97vii1377**	
NEIC	VII	09	18	24 32.1	27.30N	126.89E	150	4.0b		
JMA	VII	09	18	24 32.8±.3	27.26N±.03	126.74E±.03	155			
EIDC	VII	09	18	24 36.0	27.3N	126.9E	169	3.6b		
NEIC	Less reliable solution.									
ISC	**VII**	**10**	**09**	**32 46**±3.3	**27.8N**±.16	**126.9E**±.29	**186**±36		**11**	**1-5**
JMA	VII	10	09	32 47.6±.3	27.81N±.02	126.92E±.04	166		**¶97vii1492**	
ISC	**VII**	**11**	**17**	**30 35**±7.3	**27.5N**±.50	**126.6E**±.63	**124**		**6**	**1-3**
JMA	VII	11	17	30 36.3±.6	27.42N±.04	126.72E±.04	124		**¶97vii1710**	
ISC	**VII**	**15**	**03**	**08 58**±1.6	**29.4N**±.10	**128.3E**±.22	**213**±28		**16**	**1-5**
JMA	VII	15	03	08 59.0±.3	29.40N±.02	128.34E±.05	202		**¶97vii2243**	
ISC	**VII**	**17**	**12**	**30 18**±4.5	**29.3N**±.14	**129.0E**±.41	**15**±40		**6**	**1-3**
JMA	VII	17	12	30 17.5±.4	29.35N±.01	128.91E±.04	18	3.1	**¶97vii2594**	
JMA	**VII**	**20**	**15**	**38 45.9**±.6	**27.44N**±.03	**126.61E**±.03	**14**	**3.2**	**¶97vii3114**	
JMA	**VII**	**20**	**15**	**39 57.5**±.8	**27.46N**±.04	**126.57E**±.04	**14**	**3.4**	**¶97vii3115**	
JMA	**VII**	**25**	**15**	**42 53.3**±.4	**27.43N**±.02	**126.66E**±.02	**1**	**3.4**	**¶97vii3840**	
JMA	**VII**	**29**	**10**	**41 42.0**±.9	**27.42N**±.04	**126.63E**±.05	**12**	**3.2**	**¶97vii4422**	
ISC	**VIII**	**01**	**13**	**36 17**±1.2	**29.0N**±.11	**128.5E**±.19	**129**		**12**	**1-4**
JMA	VIII	01	13	36 17.0±.2	29.00N±.02	128.58E±.03	129		**¶97viii0069**	
ISC	**VIII**	**01**	**14**	**46 39**±3.8	**27.0N**±.28	**126.7E**±.40	**125**		**6**	**1-2**
JMA	VIII	01	14	46 38.7±.4	27.01N±.03	126.63E±.03	125±4		**¶97viii0079**	
JMA	**VIII**	**01**	**15**	**47 46.4**±.9	**27.47N**±.05	**126.57E**±.05	**14**	**3.0**	**¶97viii0086**	
ISC	**VIII**	**02**	**01**	**52 52**±1.2	**27.3N**±.12	**126.7E**±.12	**14**		**6**	**1-6**
JMA	VIII	02	01	52 48.2±.6	27.51N±.03	126.55E±.03	14	4.0	**¶97viii0151**	
JMA	**VIII**	**02**	**01**	**57 54.6**±.7	**27.41N**±.03	**126.62E**±.04	**6**	**3.3**	**¶97viii0153**	
ISC	**IX**	**03**	**19**	**51 44**±3.6	**31.4N**±.12	**128.9E**±.31	**8**		**7**	**1-2**
JMA	IX	03	19	51 43.7±.6	31.44N±.02	128.91E±.04	8	2.9	**¶97ix0469**	
ISC	**IX**	**04**	**14**	**02 02**±9.7	**27.0N**±.69	**126.5E**±.72	**100**		**5**	**1-2**
JMA	IX	04	14	02 03.1±.5	26.95N±.05	126.57E±.04	100		**¶97ix0602**	
ISC	Poorly determined									
ISC	**IX**	**19**	**20**	**16 03**±2.5	**29.0N**±.23	**128.0E**±.30	**183**		**8**	**2-3**
JMA	IX	19	20	16 04.7±.2	28.93N±.02	128.14E±.03	183		**¶97ix2840**	
ISC	**IX**	**20**	**19**	**38 08**±10	**27.4N**±.85	**126.7E**±.78	**133**		**4**	**1-2**
JMA	IX	20	19	38 08.9±.7	27.32N±.07	126.74E±.05	133		**¶97ix2993**	
ISC	Poorly determined									
ISC	**IX**	**22**	**00**	**39 58**±3.8	**27.2N**±.17	**126.7E**±.30	**165**±33		**9**	**1-6**
JMA	IX	22	00	39 59.6±.4	27.25N±.03	126.73E±.05	145		**¶97ix3193**	

JMA	**IX**	**23 21 05 45.0**±.6	**27.29N**±.03	**126.72E**±.03	**22**	**2.9**		**¶97ix3477**
JMA	**IX**	**23 21 11 16.5**±.5	**27.27N**±.02	**126.74E**±.02	**14**	**3.1**		**¶97ix3479**
JMA	**IX**	**23 21 42 12.6**±.3	**27.26N**±.01	**126.71E**±.02	**13**	**3.1**		**¶97ix3481**
ISC	**X**	**02 23 13 01**±3.7	**30.1N**±.23	**128.6E**±.46	**156**		**6**	**2-3**
JMA	X	02 23 13 04.8±.4	29.93N±.02	129.05E±.05	156			**¶97x0354**
ISC	**X**	**04 07 23 30**±3.6	**29.5N**±.19	**128.4E**±.38	**11**		**5**	**1-3**
JMA	X	04 07 23 29.8±.4	29.47N±.01	128.38E±.04	11	3.3		**¶97x0605**
ISC	**X**	**09 20 55 05**±3.0	**28.4N**±.21	**126.9E**±.36	**203**		**7**	**2-5**
JMA	X	09 20 55 06.4±.5	28.39N±.04	127.03E±.04	203			**¶97x1642**
ISC	**X**	**12 21 28 39**±3.4	**29.4N**±.13	**128.8E**±.34	**1**		**5**	**1-2**
JMA	X	12 21 28 38.0±.3	29.46N±.01	128.67E±.02	1±3	3.1		**¶97x2107**
JMA	**X**	**16 10 51 50.4**±.0	**27.20N**±.01	**126.86E**±.00	**163**±1			**¶97x2825**
JMA	**X**	**23 07 32 34.6**±.5	**29.02N**±.01	**128.66E**±.02	**3**±4	**3.2**		**¶97x3944**
ISC	**XI**	**15 19 06 31**±8.1	**27.9N**±.58	**126.4E**±.69	**179**		**5**	**2-2**
JMA	XI	15 19 06 31.3±.7	27.93N±.05	126.36E±.06	179			**¶97xi2520**
ISC	**XI**	**18 15 48 40**±1.9	**29.0N**±.16	**128.4E**±.20	**100**		**8**	**1-3**
JMA	XI	18 15 48 40.1±.1	29.01N±.01	128.48E±.02	100			**¶97xi3002**
JMA	**XI**	**25 22 54 01.4**±.4	**27.12N**±.02	**126.80E**±.02	**17**	**3.7**		**¶97xi4593**
JMA	**XI**	**25 23 02 26.0**±.4	**27.07N**±.02	**126.85E**±.02	**11**	**3.3**		**¶97xi4594**
ISC	**XI**	**26 20 10 12**±7.3	**27.1N**±.38	**126.8E**±.44	**14**		**5**	**1-1**
JMA	XI	26 20 10 12.7±.4	27.11N±.02	126.82E±.02	14	3.1		**¶97xi4739**
ISC	**XI**	**28 05 57 52**±5.3	**27.1N**±.28	**126.9E**±.32	**16**		**5**	**1-1**
JMA	XI	28 05 57 51.6±.8	27.09N±.04	126.83E±.04	16	3.4		**¶97xi5021**
ISC	**XI**	**28 06 14 57**±8.4	**27.1N**±.43	**126.8E**±.49	**16**±28		**5**	**1-1**
JMA	XI	28 06 14 57.3±.4	27.10N±.02	126.83E±.02	14	4.0		**¶97xi5027**
ISC	Poorly determined							
ISC	**XII**	**04 10 16 30**±8.5	**30.5N**±.22	**128.9E**±.79	**3**		**5**	**1-2**
JMA	XII	04 10 16 33.5±.3	30.50N±.01	129.11E±.03	3±4	2.8		**¶97xii0597**
ISC	Poorly determined							
ISC	**XII**	**12 23 07 53**±3.0	**27.3N**±.23	**126.7E**±.31	**142**		**8**	**1-4**
JMA	XII	12 23 07 52.7±.4	27.24N±.03	126.60E±.03	142			**¶97xii2840**
ISC	**XII**	**24 11 30 07**±1.4	**31.14N**±.047	**127.93E**±.039	**33**±11	**4.2b,3.9s**	**71**	**2-93**
JMA	XII	24 11 30 05.7±.2	31.12N±.01	127.92E±.02	36	4.1		**¶97xii4751**
BJI	XII	24 11 30 09.8	31.33N	127.68E	40	4.6L,4.5b		
NEIC	XII	24 11 30 10.3	31.41N	127.87E	49	4.4b		
EIDC	XII	24 11 30 13.0±2.25	31.4N	127.9E	54±21.3	3.9b,4.2L		
BJI	Ms4.4							
EIDC	Error ellipse is semi−major=21.2km semi−minor=12.6km azimuth=79							

(235) Kyūshū.

ISC	**VII**	**02 02 20 30.6**±.83	**31.96N**±.054	**130.39E**±.063	**8**±10		**13**	**0-2**
JMA	VII	02 02 20 31.1±.1	31.97N±.00	130.42E±.01	8±2	2.9		**¶97vii0169**
ISC	**VII**	**03 02 47 31.4**±.61	**31.82N**±.046	**130.23E**±.055	**10**		**27**	**0-4**
JMA	VII	03 02 47 31.4±.0	31.86N±.00	130.29E±.01	10±2	3.2		**¶97vii0345**
JMA	Felt I=II J1							
ISC	**VII**	**03 13 02 54**±1.4	**31.6N**±.16	**130.8E**±.36	**120**		**5**	**0-1**
JMA	VII	03 13 02 54.5±.3	31.57N±.01	130.75E±.03	120±3			**¶97vii0412**
ISC	**VII**	**03 14 01 43.0**±.50	**32.37N**±.041	**130.59E**±.050	**11**		**23**	**0-2**
JMA	VII	03 14 01 42.9±.0	32.38N±.00	130.63E±.00	11±2	2.8		**¶97vii0419**
ISC	**VII**	**04 06 09 28**±3.1	**31.0N**±.12	**130.4E**±.20	**190**±30		**17**	**0-4**
JMA	VII	04 06 09 29.1±.1	31.07N±.02	130.36E±.04	181			**¶97vii0515**
JMA	**VII**	**04 08 40 14.1**±.3	**31.05N**±.02	**131.47E**±.04	**65**±3			**¶97vii0528**
ISC	**VII**	**04 16 08 01.3**±.84	**31.95N**±.040	**130.35E**±.060	**3**±9.4		**18**	**0-2**
JMA	VII	04 16 08 01.7±.0	31.94N±.00	130.37E±.00	7±2	2.9		**¶97vii0591**
ISC	**VII**	**04 16 49 33**±3.2	**32.0N**±.11	**131.3E**±.16	**69**±38		**8**	**0-1**
JMA	VII	04 16 49 33.4±.3	32.03N±.01	131.24E±.02	69±4			**¶97vii0593**
ISC	**VII**	**05 05 38 03**±2.0	**30.9N**±.30	**130.5E**±.28	**113**		**4**	**1-1**
JMA	VII	05 05 38 03.4±.3	30.91N±.02	130.48E±.02	113±3			**¶97vii0684**
ISC	Poorly determined							
ISC	**VII**	**05 18 08 36**±6.3	**30.5N**±.44	**131.1E**±.40	**27**±16		**7**	**0-2**
JMA	VII	05 18 08 35.7±.6	30.55N±.03	131.13E±.04	33	2.9		**¶97vii0764**
ISC	**VII**	**05 20 13 01**±2.5	**30.6N**±.15	**131.1E**±.22	**25**±11		**9**	**0-2**
JMA	VII	05 20 13 01.1±.4	30.55N±.03	131.13E±.04	31±3	2.8		**¶97vii0783**
ISC	**VII**	**05 23 17 23.4**±.58	**32.12N**±.047	**131.32E**±.053	**80**±12		**43**	**0-5**
JMA	VII	05 23 17 23.7±.2	32.13N±.01	131.29E±.01	73±3			**¶97vii0805**
ISC	**VII**	**06 09 56 47.9**±.89	**32.45N**±.063	**132.00E**±.056	**22**±8.3	4.4b	**26**	**0-72**
JMA	VII	06 09 56 47.9±.1	32.45N±.01	132.01E±.01	35±3	2.9		**¶97vii0862**
ISC	**VII**	**07 15 47 02**±1.0	**31.17N**±.060	**130.35E**±.094	**168**±13		**29**	**0-5**
JMA	VII	07 15 47 02.5±.3	31.17N±.01	130.38E±.03	161±3			**¶97vii1063**
ISC	**VII**	**07 19 55 17.7**±.46	**32.58N**±.044	**131.16E**±.046	**159**±5.8	3.4b	**60**	**0-69**
JMA	VII	07 19 55 18.4±.1	32.59N±.01	131.20E±.01	150±2			**¶97vii1085**
EIDC	VII	07 19 55 20.4	32.8N	131.2E	153	3.2b		
ISC	**VII**	**07 20 51 21**±6.4	**31.3N**±.12	**130.4E**±.23	**172**±63		**9**	**0-2**
JMA	VII	07 20 51 22.1±.3	31.26N±.01	130.37E±.02	164±3			**¶97vii1091**
ISC	**VII**	**08 06 52 36.2**±.85	**31.98N**±.060	**130.28E**±.064	**7**±11		**13**	**0-2**
JMA	VII	08 06 52 36.6±.1	31.98N±.00	130.32E±.01	9±2	3.0		**¶97vii1146**
ISC	**VII**	**08 13 21 59**±2.9	**31.3N**±.24	**130.3E**±.65	**163**		**5**	**0-2**
JMA	VII	08 13 21 59.4±.5	31.28N±.02	130.35E±.05	163±5			**¶97vii1194**
ISC	**VII**	**08 22 02 17**±1.6	**31.3N**±.11	**130.5E**±.16	**5**		**5**	**0-1**
JMA	VII	08 22 02 17.2±.2	31.35N±.02	130.55E±.02	5±5	3.1		**¶97vii1240**
ISC	Poorly determined							
ISC	**VII**	**10 02 32 32.8**±.85	**31.97N**±.041	**130.15E**±.061	**3**±8.7		**17**	**0-2**
JMA	VII	10 02 32 33.3±.0	31.96N±.00	130.17E±.00	11±2	3.2		**¶97vii1433**
ISC	**VII**	**10 08 06 41**±2.1	**30.45N**±.074	**131.3E**±.15	**27**±15		**16**	**0-3**
JMA	VII	10 08 06 40.6±.5	30.46N±.02	131.40E±.04	34±5	3.5		**¶97vii1474**
ISC	**VII**	**10 09 22 18**±4.2	**32.50N**±.085	**128.4E**±.24	**6**±17		**22**	**0-4**
JMA	VII	10 09 22 19.2±.4	32.54N±.01	128.44E±.03	14±3	3.5		**¶97vii1487**
JMA	Felt I=II J1							
ISC	**VII**	**10 10 53 04**±3.2	**30.5N**±.11	**131.4E**±.24	**24**±20		**8**	**0-3**
JMA	VII	10 10 53 03.3±.5	30.45N±.02	131.47E±.03	30±4	3.4		**¶97vii1501**
ISC	**VII**	**10 12 08 10**±3.0	**30.5N**±.11	**131.4E**±.23	**25**±18		**10**	**0-74**
JMA	VII	10 12 08 09.4±.5	30.44N±.02	131.40E±.04	31±5	3.0		**¶97vii1508**
ISC	**VII**	**10 20 29 33.2**±.83	**31.97N**±.039	**130.34E**±.059	**0**±8.9		**18**	**0-2**
JMA	VII	10 20 29 33.7±.1	31.98N±.00	130.35E±.01	7±2	2.9		**¶97vii1561**
ISC	**VII**	**10 22 28 20**±2.7	**31.16N**±.097	**130.4E**±.20	**141**±32		**10**	**0-3**
JMA	VII	10 22 28 20.3±.3	31.15N±.01	130.38E±.02	144±3			**¶97vii1578**
ISC	**VII**	**11 01 15 33.5**±.46	**32.52N**±.041	**130.86E**±.040	**6**		**27**	**0-3**
JMA	VII	11 01 15 33.3±.1	32.54N±.00	130.87E±.01	6±2	3.0		**¶97vii1601**
ISC	**VII**	**11 01 38 10.8**±.54	**31.83N**±.039	**130.24E**±.054	**9**		**25**	**0-3**
JMA	VII	11 01 38 10.6±.1	31.86N±.00	130.28E±.01	9±3	3.2		**¶97vii1607**
JMA	Felt I=II J1							
ISC	**VII**	**11 19 11 46**±2.7	**33.5N**±.13	**131.6E**±.15	**110**±28		**18**	**0-3**
JMA	VII	11 19 11 46.6±.3	33.46N±.01	131.61E±.02	108±3			**¶97vii1718**
ISC	**VII**	**12 09 50 19.6**±.90	**31.94N**±.062	**130.27E**±.078	**8**±14		**10**	**0-1**
JMA	VII	12 09 50 20.0±.1	31.94N±.00	130.28E±.01	8±3	2.8		**¶97vii1799**
ISC	**VII**	**12 16 49 01**±2.8	**31.1N**±.23	**130.3E**±.61	**155**		**5**	**0-2**
JMA	VII	12 16 49 01.5±.2	31.09N±.02	130.32E±.05	155			**¶97vii1842**
ISC	**VII**	**13 08 47 50.6**±.97	**30.71N**±.086	**130.9E**±.13	**16**±14		**9**	**0-2**
JMA	VII	13 08 47 50.3±.4	30.69N±.03	130.96E±.04	25±4	2.9		**¶97vii1949**
ISC	**VII**	**13 10 05 39.0**±.54	**32.26N**±.060	**131.36E**±.069	**67**		**23**	**0-3**
JMA	VII	13 10 05 38.9±.2	32.26N±.01	131.36E±.01	67±3			**¶97vii1956**
ISC	**VII**	**14 11 19 03**±5.5	**30.3N**±.27	**131.8E**±.46	**51**		**6**	**1-2**
JMA	VII	14 11 19 00.3±.4	30.24N±.02	131.94E±.03	51	2.9		**¶97vii2115**
ISC	**VII**	**14 16 12 46.3**±.88	**31.71N**±.049	**130.16E**±.062	**10**±9.3		**15**	**0-2**
JMA	VII	14 16 12 46.8±.1	31.71N±.00	130.16E±.01	10±3	2.8		**¶97vii2171**
ISC	**VII**	**15 07 44 36**±1.0	**31.71N**±.059	**130.14E**±.072	**2**±11		**11**	**0-2**
JMA	VII	15 07 44 36.2±.1	31.71N±.01	130.17E±.01	8±3	2.8		**¶97vii2269**
ISC	**VII**	**15 09 00 02**±5.7	**31.9N**±.18	**130.8E**±.44	**132**±55		**6**	**0-1**
JMA	VII	15 09 00 02.7±.3	31.91N±.01	130.77E±.04	122±3			**¶97vii2280**
JMA	**VII**	**16 01 42 54.6**±.2	**31.16N**±.03	**130.27E**±.04	**154**			**¶97vii2376**
ISC	**VII**	**16 06 37 22.9**±.85	**32.36N**±.038	**130.62E**±.043	**4**±7.2		**39**	**0-5**
JMA	VII	16 06 37 23.8±.0	32.38N±.00	130.63E±.00	13±1	3.7		**¶97vii2398**
JMA	Felt I=II J1							
ISC	**VII**	**16 10 45 04.8**±.62	**31.84N**±.042	**130.25E**±.065	**8**		**15**	**0-2**
JMA	VII	16 10 45 04.9±.1	31.84N±.00	130.28E±.01	8±3	2.8		**¶97vii2427**
ISC	**VII**	**16 18 13 15**±7.7	**30.5N**±.45	**131.7E**±.50	**51**±64		**7**	**1-2**
JMA	VII	16 18 13 10.8±.6	30.26N±.04	131.95E±.05	58	2.9		**¶97vii2475**
ISC	**VII**	**17 01 24 30.9**±.72	**32.44N**±.044	**130.49E**±.045	**1**±7.9		**20**	**0-2**
JMA	VII	17 01 24 31.5±.0	32.44N±.00	130.47E±.00	12±2	3.0		**¶97vii2527**
ISC	**VII**	**17 21 21 40**±2.7	**33.76N**±.097	**131.6E**±.15	**121**±26		**23**	**0-3**
JMA	VII	17 21 21 40.3±.2	33.76N±.01	131.59E±.01	117±2			**¶97vii2645**
ISC	**VII**	**17 22 30 52**±1.3	**31.92N**±.062	**130.06E**±.085	**2**±11		**14**	**1-2**
JMA	VII	17 22 30 52.8±.1	31.95N±.01	130.12E±.01	8±3	2.9		**¶97vii2654**
ISC	**VII**	**18 03 00 24**±1.3	**30.6N**±.14	**130.8E**±.14	**6**±20		**5**	**0-1**
JMA	VII	18 03 00 24.5±.1	30.60N±.01	130.83E±.01	4±4	2.8		**¶97vii2684**
ISC	Poorly determined							
JMA	**VII**	**18 07 44 42.0**±.1	**30.53N**±.00	**131.31E**±.01	**25**±1	**3.1**		**¶97vii2708**
ISC	**VII**	**18 13 41 14**±3.9	**33.1N**±.12	**131.4E**±.16	**140**±37		**19**	**0-3**
JMA	VII	18 13 41 14.3±.2	33.10N±.01	131.40E±.01	137±2			**¶97vii2752**
ISC	**VII**	**19 02 19 22**±2.1	**31.2N**±.11	**131.7E**±.23	**42**±53		**10**	**0-2**
JMA	VII	19 02 19 21.3±.4	31.18N±.02	131.71E±.04	51±4	3.1		**¶97vii2820**
ISC	**VII**	**19 12 01 36**±2.8	**31.2N**±.12	**131.8E**±.31	**45**		**7**	**1-2**
JMA	VII	19 12 01 35.2±.2	31.17N±.01	131.81E±.02	45±3	3.0		**¶97vii2868**
ISC	**VII**	**19 12 46 58.2**±.60	**31.95N**±.042	**130.40E**±.060	**7**		**19**	**0-3**
JMA	VII	19 12 46 58.5±.1	31.97N±.00	130.43E±.00	7±2	2.8		**¶97vii2878**
ISC	**VII**	**19 22 13 29**±2.4	**30.2N**±.12	**131.9E**±.23	**53**		**11**	**1-3**
JMA	VII	19 22 13 28.7±.3	30.20N±.01	131.92E±.02	53	2.9		**¶97vii2962**
ISC	**VII**	**20 01 02 32**±1.4	**31.3N**±.22	**130.3E**±.29	**167**		**5**	**1-2**
JMA	VII	20 01 02 32.1±.4	31.33N±.02	130.33E±.03	167±4			**¶97vii2983**
ISC	**VII**	**20 06 02 55.2**±.74	**31.36N**±.057	**131.21E**±.057	**66**±14		**33**	**0-5**
JMA	VII	20 06 02 56.0±.1	31.39N±.00	131.13E±.01	57±1	2.8		**¶97vii3028**
ISC	**VII**	**21 03 10 37.7**±.91	**32.49N**±.044	**129.76E**±.067	**3**±8.1		**16**	**0-2**
JMA	VII	21 03 10 38.3±.0	32.50N±.00	129.77E±.00	8±1	2.8		**¶97vii3180**
ISC	**VII**	**21 15 47 39.8**±.97	**33.56N**±.064	**131.87E**±.058	**87**±13		**30**	**0-4**
JMA	VII	21 15 47 40.4±.1	33.58N±.01	131.86E±.01	78±2			**¶97vii3258**
ISC	**VII**	**21 16 03 24.8**±.83	**31.94N**±.039	**130.36E**±.054	**6**±8.2		**23**	**0-3**
JMA	VII	21 16 03 25.3±.0	31.97N±.00	130.39E±.00	8±2	3.1		**¶97vii3261**
JMA	Felt I=II J1							
ISC	**VII**	**22 03 46 11.9**±.98	**30.18N**±.080	**130.4E**±.13	**23**		**8**	**0-2**
JMA	VII	22 03 46 11.5±.2	30.17N±.02	130.40E±.03	23±4	2.9		**¶97vii3323**
ISC	**VII**	**22 07 53 09**±1.5	**32.7N**±.12	**131.41E**±.080	**95**±17		**19**	**0-3**
JMA	VII	22 07 53 09.5±.1	32.71N±.01	131.41E±.01	87±2			**¶97vii3340**
ISC	**VII**	**22 23 18 05.3**±.93	**31.58N**±.049	**130.29E**±.060	**6**±8.8		**21**	**0-3**
JMA	VII	22 23 18 05.7±.0	31.59N±.00	130.32E±.01	8±2	3.2		**¶97vii3449**
JMA	Felt I=II J1							
ISC	**VII**	**23 10 43 42.8**±.87	**31.98N**±.055	**130.35E**±.073	**6**±12		**11**	**0-2**
JMA	VII	23 10 43 43.3±.1	31.99N±.00	130.37E±.01	7±3	2.8		**¶97vii3518**
ISC	**VII**	**23 14 46 59**±1.5	**33.48N**±.070	**131.95E**±.068	**73**±21		**17**	**0-2**
JMA	VII	23 14 46 59.3±.1	33.49N±.00	131.94E±.00	66±2			**¶97vii3546**
ISC	**VII**	**24 05 53 20**±1.9	**30.6N**±.15	**130.9E**±.19	**4**±20		**5**	**0-1**
JMA	VII	24 05 53 20.3±.1	30.55N±.01	130.89E±.02	5±3	2.8		**¶97vii3627**
ISC	Poorly determined							
ISC	**VII**	**24 09 47 14**±1.3	**32.05N**±.079	**131.99E**±.078	**26**±11		**23**	**0-3**
JMA	VII	24 09 47 13.9±.2	32.08N±.02	132.00E±.02	36±5	2.9		**¶97vii3654**
ISC	**VII**	**25 04 12 44.3**±.90	**32.10N**±.056	**130.03E**±.069	**3**±14		**10**	**0-1**
JMA	VII	25 04 12 44.8±.1	32.10N±.01	130.04E±.01	8±3	2.9		**¶97vii3768**
ISC	**VII**	**25 05 04 18.8**±.95	**32.10N**±.059	**129.94E**±.081	**3**±14		**10**	**0-1**
JMA	VII	25 05 04 19.3±.0	32.10N±.00	129.95E±.00	10±2	2.8		**¶97vii3775**
ISC	**VII**	**25 19 04 47.4**±.91	**32.39N**±.042	**130.62E**±.053	**7**±9.9		**17**	**0-2**
JMA	VII	25 19 04 47.8±.1	32.39N±.00	130.62E±.01	10±3	2.8		**¶97vii3863**
ISC	**VII**	**25 22 58 24.6**±.88	**32.39N**±.043	**130.65E**±.060	**10**±10		**16**	**0-2**
JMA	VII	25 22 58 24.9±.0	32.38N±.00	130.65E±.00	11±2	3.0		**¶97vii3887**
ISC	**VII**	**26 05 58 32**±2.5	**30.8N**±.18	**131.2E**±.35	**29**±18		**7**	**0-2**
JMA	VII	26 05 58 31.4±.2	30.82N±.01	131.22E±.02	39±2	3.0		**¶97vii3925**
ISC	**VII**	**26 09 36 06**±1.1	**31.98N**±.029	**130.41E**±.038	**15**±7.7	**4.1b**,4.0s	**73**	**0-88**
JMA	VII	26 09 36 05.6±.1	31.97N±.00	130.44E±.01	9±2	4.2		**¶97vii3946**
BJI	VII	26 09 36 05.6	32.14N	130.50E	18	3.8L,4.0b		
NEIC	VII	26 09 36 07.6	32.06N	130.41E	33			
EIDC	VII	26 09 36 11.3	32.2N	130.4E	53	3.5b,3.9L		
JMA	Felt I=IV J1							
BJI	Ms4.1							
NEIC	Less reliable solution.							
ISC	**VII**	**27 15 48 16.1**±.85	**31.87N**±.043	**130.26E**±.061	**7**±9.0		**16**	**0-2**
JMA	VII	27 15 48 16.5±.1	31.88N±.00	130.29E±.01	9±3	2.9		**¶97vii4131**
ISC	**VII**	**28 00 04 35.9**±.83	**31.65N**±.057	**131.06E**±.083	**70**±16		**25**	**0-4**
JMA	VII	28 00 04 36.2±.1	31.66N±.00	131.00E±.01	68±1			**¶97vii4183**
ISC	**VII**	**28 10 53 02.7**±.86	**32.65N**±.058	**131.67E**±.059	**67**±15		**26**	**0-3**
JMA	VII	28 10 53 02.9±.1	32.66N±.01	131.67E±.01	64±2			**¶97vii4256**
ISC	**VII**	**28 18 41 24**±2.4	**33.47N**±.085	**131.92E**±.096	**74**±30		**13**	**0-2**
JMA	VII	28 18 41 24.6±.1	33.47N±.00	131.92E±.01	69±2			**¶97vii4313**
ISC	**VII**	**29 03 17 26**±3.2	**32.0N**±.15	**130.9E**±.19	**140**±31		**18**	**0-3**
JMA	VII	29 03 17 26.8±.4	32.05N±.02	130.96E±.03	135±4			**¶97vii4373**
ISC	**VII**	**29 17 56 47**±5.8	**31.1N**±.18	**131.8E**±.46	**30**±24		**6**	**1-1**
JMA	VII	29 17 56 46.0±.4	31.03N±.02	131.85E±.03	45	3.1		**¶97vii4461**
ISC	**VII**	**29 20 38 42**±3.9	**30.5N**±.18	**130.4E**±.17	**75**±47		**6**	**0-1**
JMA	VII	29 20 38 42.6±.3	30.53N±.02	130.41E±.02	71±3			**¶97vii4479**
ISC	**VII**	**30 04 24 00.0**±.90	**31.99N**±.045	**130.29E**±.060	**1**±9.9		**21**	**0-3**
JMA	VII	30 04 24 00.5±.0	31.98N±.00	130.33E±.00	8±2	2.9		**¶97vii4532**
ISC	**VII**	**30 05 40 22.7**±.86	**31.95N**±.039	**130.38E**±.055	**2**±8.7		**25**	**0-3**
JMA	VII	30 05 40 23.2±.1	31.96N±.00	130.41E±.01	7±3	3.2		**¶97vii4538**
JMA	Felt I=II J1							
ISC	**VII**	**30 06 31 52.5**±.52	**32.71N**±.034	**130.01E**±.046	**18**±6.0	**3.9b**	**45**	**0-87**
EIDC	VII	30 06 31 51.9	32.7N	130.2E	0	3.8b,3.1L		**¶97vii4544**
JMA	VII	30 06 31 52.6±.0	32.71N±.00	130.05E±.00	14±1	3.9		
NEIC	VII	30 06 31 54.2	32.75N	130.06E	33			
JMA	Felt I=II J1							
NEIC	Single network solution.							
ISC	**VII**	**30 10 30 45**±1.2	**31.0N**±.13	**130.7E**±.23	**70**		**4**	**0-1**
JMA	VII	30 10 30 45.4±.2	31.04N±.01	130.69E±.02	70±2			**¶97vii4566**
ISC	Poorly determined							

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**30 12 28 31.4**±.84	**31.96N**±.039	**130.39E**±.055	**5**±8.4		**27**	**0-3**
JMA	VII	30 12 28 31.8±.0	31.97N±.00	130.41E±.00	9±2	3.2	**¶97vii4581**	
ISC	**VII**	**30 15 39 55**±3.1	**30.8N**±.15	**131.4E**±.30	**29**±13		**7**	**0-2**
JMA	VII	30 15 39 54.8±.3	30.78N±.01	131.47E±.03	39±3	2.9	**¶97vii4597**	
ISC	**VII**	**31 03 51 07.9**±.87	**31.96N**±.053	**130.38E**±.070	**6**±12		**13**	**0-2**
JMA	VII	31 03 51 08.3±.1	31.97N±.00	130.39E±.01	7±2	2.8	**¶97vii4672**	
JMA	**VII**	**31 17 50 08.4**±.2	**30.78N**±.01	**130.63E**±.02	**70**±2		**¶97vii4771**	
ISC	**VII**	**31 22 54 01**±1.3	**30.6N**±.19	**130.8E**±.15	**5**		**5**	**0-1**
JMA	VII	31 22 54 00.9±.2	30.53N±.02	130.85E±.02	5±5	2.8	**¶97vii4795**	
ISC	Poorly determined							
JMA	**VIII**	**01 09 52 27.7**±.4	**30.19N**±.02	**131.80E**±.03	**74**		**¶97viii0044**	
ISC	**VIII**	**01 21 59 06.8**±.80	**31.92N**±.044	**130.29E**±.061	**9**±8.6		**16**	**0-2**
JMA	VIII	01 21 59 07.2±.0	31.93N±.00	130.32E±.00	7±2	3.0	**¶97viii0123**	
ISC	**VIII**	**02 00 05 46**±3.3	**30.3N**±.21	**130.9E**±.27	**29**±14		**7**	**0-3**
JMA	VIII	02 00 05 45.7±.4	30.31N±.02	131.01E±.03	36±3	3.1	**¶97viii0136**	
ISC	**VIII**	**02 01 16 11.5**±.84	**31.99N**±.048	**130.34E**±.064	**4**±11		**15**	**0-3**
JMA	VIII	02 01 16 11.9±.1	31.98N±.00	130.37E±.01	7±2	2.8	**¶97viii0143**	
ISC	**VIII**	**02 01 51 08**±6.3	**30.5N**±.41	**131.5E**±.39	**50**		**7**	**0-2**
JMA	VIII	02 01 51 09.2±.5	30.61N±.03	131.44E±.03	50±4	2.9	**¶97viii0150**	
ISC	**VIII**	**02 10 40 59**±9.0	**33.7N**±.15	**131.9E**±.75	**92**±52		**8**	**1-2**
JMA	VIII	02 10 41 00.2±.2	33.65N±.01	131.94E±.03	87±2		**¶97viii0198**	
ISC	**VIII**	**02 14 14 51**±2.0	**30.8N**±.22	**129.8E**±.33	**208**		**9**	**1-3**
JMA	VIII	02 14 14 50.9±.3	30.69N±.04	129.79E±.05	208		**¶97viii0221**	
ISC	**VIII**	**02 23 56 44**±5.1	**31.3N**±.13	**130.3E**±.28	**157**±55		**8**	**0-2**
JMA	VIII	02 23 56 43.6±.2	31.25N±.02	130.30E±.04	160		**¶97viii0274**	
ISC	**VIII**	**03 06 07 55**±3.3	**31.0N**±.15	**130.3E**±.38	**156**±39		**9**	**1-3**
JMA	VIII	03 06 07 55.4±.3	30.98N±.02	130.31E±.04	156±4		**¶97viii0314**	
ISC	**VIII**	**03 16 43 11**±1.0	**30.52N**±.097	**130.6E**±.14	**62**		**10**	**0-2**
JMA	VIII	03 16 43 11.2±.1	30.54N±.01	130.62E±.01	62±2		**¶97viii0384**	
ISC	**VIII**	**03 21 24 24**±1.3	**31.8N**±.17	**131.1E**±.20	**64**		**4**	**0-1**
JMA	VIII	03 21 24 24.1±.2	31.79N±.01	131.14E±.01	64±3		**¶97viii0414**	
ISC	Poorly determined							
ISC	**VIII**	**04 07 26 38.4**±.55	**32.27N**±.052	**131.78E**±.050	**40**±20		**35**	**0-5**
JMA	VIII	04 07 26 38.4±.1	32.31N±.01	131.75E±.01	45±3	3.1	**¶97viii0472**	
ISC	**VIII**	**04 12 24 08**±4.3	**33.5N**±.16	**131.5E**±.49	**117**		**10**	**1-2**
JMA	VIII	04 12 24 08.3±.2	33.48N±.01	131.63E±.03	117±3		**¶97viii0506**	
ISC	**VIII**	**04 19 03 50.5**±.88	**31.94N**±.044	**130.40E**±.060	**4**±9.7		**17**	**0-2**
JMA	VIII	04 19 03 51.0±.1	31.96N±.00	130.42E±.01	8±2	2.9	**¶97viii0531**	
ISC	**VIII**	**04 23 26 21**±1.1	**30.6N**±.10	**130.84E**±.099	**1**		**5**	**0-2**
JMA	VIII	04 23 26 20.5±.2	30.55N±.01	130.88E±.02	1±4	2.9	**¶97viii0574**	
ISC	**VIII**	**05 03 20 15.9**±.41	**31.00N**±.034	**131.64E**±.045	**48**±5.8	**4.1b,**3.9s	**60**	**1-89**
BJI	VIII	05 03 20 14.1	30.75N	131.80E	38	4.5b,4.3s	**¶97viii0607**	
NEIC	VIII	05 03 20 14.5	30.96N	131.47E	33	4.2b		
JMA	VIII	05 03 20 15.7±.2	31.03N±.01	131.65E±.02	46±3	3.8		
EIDC	VIII	05 03 20 19.3	31.0N	131.6E	59	3.7b,3.5L		
ISC	**VIII**	**05 03 47 08**±2.2	**30.97N**±.096	**131.7E**±.25	**54**±40		**10**	**1-3**
JMA	VIII	05 03 47 08.8±.3	31.05N±.01	131.57E±.03	48±3	3.3	**¶97viii0612**	
ISC	**VIII**	**05 03 48 23.0**±.67	**31.02N**±.062	**131.6E**±.10	**45**±36		**22**	**1-5**
JMA	VIII	05 03 48 22.9±.2	31.06N±.01	131.57E±.02	47±3	3.3	**¶97viii0613**	
ISC	**VIII**	**05 13 50 29**±2.3	**31.75N**±.086	**131.8E**±.19	**18**±14		**12**	**1-2**
JMA	VIII	05 13 50 28.3±.4	31.73N±.01	131.94E±.03	27±4	2.8	**¶97viii0674**	
ISC	**VIII**	**05 19 57 40**±2.7	**30.5N**±.18	**130.9E**±.23	**9**±15		**5**	**0-1**
JMA	VIII	05 19 57 40.2±.3	30.51N±.02	130.94E±.02	8±3	2.8	**¶97viii0706**	
ISC	Poorly determined							
ISC	**VIII**	**05 22 45 44.1**±.90	**31.88N**±.056	**130.27E**±.063	**5**±11		**12**	**0-2**
JMA	VIII	05 22 45 44.5±.1	31.89N±.00	130.30E±.01	7±2	2.8	**¶97viii0729**	
ISC	**VIII**	**06 03 26 46**±3.6	**33.5N**±.10	**131.9E**±.15	**76**±41		**13**	**0-2**
JMA	VIII	06 03 26 46.5±.2	33.49N±.01	131.92E±.01	68±2		**¶97viii0751**	
ISC	**VIII**	**06 06 24 05**±3.4	**31.7N**±.10	**132.0E**±.29	**18**±19		**9**	**1-2**
JMA	VIII	06 06 24 05.0±.3	31.72N±.01	132.00E±.02	25±4	3.1	**¶97viii0762**	
ISC	**VIII**	**06 06 25 05**±2.9	**31.74N**±.099	**131.9E**±.25	**23**±15		**9**	**1-2**
JMA	VIII	06 06 25 05.2±.4	31.72N±.01	131.97E±.04	28	2.9	**¶97viii0763**	
ISC	**VIII**	**06 07 30 20**±4.0	**31.0N**±.19	**131.6E**±.39	**30**±20		**5**	**1-2**
JMA	VIII	06 07 30 19.0±.4	31.03N±.02	131.68E±.03	36	2.8	**¶97viii0768**	
ISC	Poorly determined							
JMA	**VIII**	**06 07 31 10.6**±.1	**31.08N**±.00	**131.73E**±.01	**15**±2	**2.9**	**¶97viii0769**	
ISC	**VIII**	**06 16 50 11**±2.0	**30.5N**±.16	**130.9E**±.19	**7**±17		**5**	**0-1**
JMA	VIII	06 16 50 11.0±.3	30.52N±.02	130.89E±.03	6±4	3.0	**¶97viii0823**	
ISC	Poorly determined							
ISC	**VIII**	**06 19 07 13**±1.6	**31.11N**±.089	**131.2E**±.15	**52**±27		**11**	**0-2**
JMA	VIII	06 19 07 12.7±.1	31.11N±.01	131.21E±.01	54±2	2.9	**¶97viii0831**	
JMA	**VIII**	**07 04 48 45.2**±.7	**31.09N**±.02	**131.64E**±.04	**0**	**2.8**	**¶97viii0885**	
ISC	**VIII**	**08 15 56 13.0**±.71	**32.11N**±.049	**130.04E**±.063	**7**		**14**	**0-2**
JMA	VIII	08 15 56 13.3±.1	32.12N±.00	130.07E±.01	7±2	2.8	**¶97viii1130**	
ISC	**VIII**	**08 17 24 56.2**±.85	**31.31N**±.051	**130.45E**±.085	**162**±10		**55**	**0-8**
JMA	VIII	08 17 24 56.1±.2	31.29N±.01	130.49E±.02	166±2		**¶97viii1140**	
ISC	**VIII**	**08 18 03 05.9**±.66	**31.99N**±.048	**130.49E**±.063	**9**		**17**	**0-3**
JMA	VIII	08 18 03 06.1±.1	32.01N±.00	130.51E±.01	9±2	2.9	**¶97viii1146**	
JMA	**VIII**	**09 12 24 37.5**±.2	**30.52N**±.02	**131.08E**±.02	**34**±1	**2.8**	**¶97viii1248**	
ISC	**VIII**	**09 21 19 41**±1.2	**31.25N**±.094	**130.6E**±.10	**3**±17		**7**	**0-2**
JMA	VIII	09 21 19 41.7±.2	31.25N±.01	130.61E±.01	3±4	2.8	**¶97viii1308**	
ISC	**VIII**	**10 19 46 11.7**±.89	**31.90N**±.055	**130.29E**±.086	**0**±15		**10**	**0-2**
JMA	VIII	10 19 46 12.2±.1	31.90N±.00	130.29E±.01	7±3	2.8	**¶97viii1451**	
ISC	**VIII**	**10 21 54 39**±2.1	**31.1N**±.18	**130.4E**±.43	**137**		**6**	**0-2**
JMA	VIII	10 21 54 39.1±.3	31.06N±.03	130.39E±.06	137		**¶97viii1462**	
JMA	**VIII**	**11 05 06 01.2**±.4	**30.01N**±.02	**131.20E**±.03	**37**±4	**2.8**	**¶97viii1505**	
ISC	**VIII**	**11 15 36 31**±3.4	**31.4N**±.13	**130.4E**±.24	**150**±37		**9**	**0-2**
JMA	VIII	11 15 36 31.8±.3	31.41N±.01	130.44E±.02	146±3		**¶97viii1580**	
ISC	**VIII**	**12 06 44 29.5**±.60	**31.95N**±.042	**130.45E**±.062	**5**		**15**	**0-2**
JMA	VIII	12 06 44 29.8±.1	31.96N±.00	130.47E±.01	5±2	2.8	**¶97viii1692**	
ISC	**VIII**	**14 04 15 09**±1.1	**30.5N**±.11	**130.5E**±.16	**61**		**7**	**0-2**
JMA	VIII	14 04 15 08.9±.2	30.47N±.01	130.55E±.02	61±2	2.6	**¶97viii2001**	
JMA	**VIII**	**14 04 31 49.7**±.4	**30.05N**±.02	**131.28E**±.03	**15**	**2.8**	**¶97viii2002**	
ISC	**VIII**	**14 13 49 46**±1.2	**33.9N**±.16	**129.3E**±.19	**33**	**4.0b**	**5**	**8-57**
EIDC	VIII	14 13 49 44.0	33.8N	129.2E	0	4.1b,3.8L	**¶97viii2071**	
ISC	**VIII**	**15 06 44 20.3**±.90	**31.96N**±.063	**130.40E**±.081	**8**±14		**7**	**0-1**
JMA	VIII	15 06 44 20.8±.1	31.97N±.01	130.41E±.01	9±3	2.8	**¶97viii2172**	
JMA	**VIII**	**15 09 34 14.1**±.3	**32.60N**±.03	**131.08E**±.04	**131**±4		**¶97viii2193**	
ISC	**VIII**	**15 20 25 34**±1.1	**31.3N**±.16	**130.4E**±.23	**146**		**8**	**0-2**
JMA	VIII	15 20 25 34.3±.3	31.23N±.01	130.42E±.02	146±3		**¶97viii2267**	
ISC	**VIII**	**16 12 20 38.2**±.73	**32.70N**±.040	**130.07E**±.049	**6**±8.1		**29**	**0-4**
JMA	VIII	16 12 20 38.5±.0	32.71N±.00	130.06E±.00	11±1	3.2	**¶97viii2368**	
ISC	**VIII**	**16 19 19 27**±1.4	**33.5N**±.15	**131.8E**±.27	**74**		**6**	**0-1**
JMA	VIII	16 19 19 26.5±.2	33.51N±.01	131.78E±.01	74±2		**¶97viii2407**	
ISC	**VIII**	**16 22 29 51**±1.2	**33.50N**±.059	**131.75E**±.072	**79**±16		**23**	**0-2**
JMA	VIII	16 22 29 51.5±.1	33.51N±.00	131.75E±.01	77±2		**¶97viii2427**	
ISC	**VIII**	**17 00 44 06**±5.4	**31.5N**±.40	**131.6E**±.37	**32**±17		**9**	**0-2**
JMA	VIII	17 00 44 05.5±.3	31.42N±.02	131.68E±.03	43±3	3.2	**¶97viii2445**	
ISC	**VIII**	**17 01 16 27.6**±.51	**31.98N**±.038	**130.50E**±.057	**9**		**20**	**0-2**
JMA	VIII	17 01 16 27.3±.1	31.99N±.00	130.51E±.01	9±2	3.0	**¶97viii2449**	
JMA	**VIII**	**17 03 17 41.6**±.8	**30.36N**±.05	**131.28E**±.05	**37**	**3.2**	**¶97viii2475**	
ISC	**VIII**	**17 09 19 37**±1.2	**31.94N**±.064	**130.33E**±.093	**5**±13		**8**	**0-2**
JMA	VIII	17 09 19 37.1±.1	31.95N±.00	130.34E±.01	6±3	2.8	**¶97viii2516**	
ISC	**VIII**	**17 20 13 38.1**±.52	**31.98N**±.038	**130.29E**±.055	**8**		**20**	**0-2**
JMA	VIII	17 20 13 38.0±.1	31.99N±.00	130.32E±.01	8±2	3.1	**¶97viii2582**	
ISC	**VIII**	**18 01 34 21.7**±.83	**31.95N**±.046	**130.35E**±.069	**1**±13		**14**	**0-2**
JMA	VIII	18 01 34 22.2±.1	31.94N±.00	130.36E±.01	6±3	2.9	**¶97viii2608**	
JMA	**VIII**	**18 07 07 32.0**±.3	**30.22N**±.02	**131.95E**±.02	**46**	**3.3**	**¶97viii2634**	
ISC	**VIII**	**19 00 52 11.4**±.63	**31.96N**±.047	**130.39E**±.057	**6**		**18**	**0-2**
JMA	VIII	19 00 52 11.6±.1	31.97N±.00	130.41E±.00	6±2	3.0	**¶97viii2738**	
ISC	**VIII**	**19 02 15 03**±5.6	**33.6N**±.18	**132.0E**±.24	**73**±63		**6**	**0-1**
JMA	VIII	19 02 15 03.6±.2	33.58N±.01	131.96E±.01	65±3		**¶97viii2745**	
ISC	Poorly determined							
ISC	**VIII**	**19 23 14 47.9**±.87	**31.96N**±.053	**130.39E**±.070	**6**±12		**12**	**0-2**
JMA	VIII	19 23 14 48.4±.1	31.97N±.00	130.41E±.01	8±2	2.8	**¶97viii2880**	
ISC	**VIII**	**20 11 56 55**±3.6	**32.3N**±.13	**131.2E**±.16	**66**±43		**9**	**0-1**
JMA	VIII	20 11 56 55.0±.3	32.30N±.01	131.22E±.02	73±3		**¶97viii2955**	
ISC	**VIII**	**20 17 05 20**±2.5	**32.1N**±.10	**131.1E**±.13	**53**±40		**8**	**0-1**
JMA	VIII	20 17 05 19.7±.2	32.09N±.01	131.13E±.01	63±3		**¶97viii2992**	
ISC	**VIII**	**20 21 52 37**±1.0	**32.1N**±.17	**130.9E**±.27	**117**		**7**	**0-1**
JMA	VIII	20 21 52 37.3±.2	32.14N±.01	130.91E±.01	117±2		**¶97viii3020**	
ISC	**VIII**	**21 01 35 35**±1.0	**30.59N**±.080	**131.89E**±.087	**58**		**25**	**1-4**
JMA	VIII	21 01 35 34.3±.2	30.59N±.01	131.88E±.02	58±4	3.1	**¶97viii3041**	
ISC	**VIII**	**21 05 16 49**±2.9	**32.4N**±.18	**131.2E**±.12	**123**±29		**18**	**0-3**
JMA	VIII	21 05 16 50.7±.3	32.50N±.02	131.21E±.02	105±3		**¶97viii3058**	
ISC	**VIII**	**21 09 00 10.4**±.50	**31.93N**±.037	**130.32E**±.050	**9**		**30**	**0-4**
JMA	VIII	21 09 00 10.4±.1	31.94N±.00	130.36E±.01	9±2	3.3	**¶97viii3077**	
JMA	Felt I=II J1							
ISC	**VIII**	**21 09 40 08.6**±.48	**32.25N**±.040	**130.50E**±.048	**9**		**26**	**0-3**
JMA	VIII	21 09 40 08.4±.0	32.26N±.00	130.52E±.00	9±2	3.1	**¶97viii3080**	
ISC	**VIII**	**21 13 41 24**±2.7	**30.4N**±.18	**130.9E**±.23	**17**		**5**	**0-1**
JMA	VIII	21 13 41 23.6±.3	30.36N±.02	130.91E±.02	17±3	2.8	**¶97viii3103**	
ISC	**VIII**	**21 19 37 40.8**±.89	**31.95N**±.051	**130.47E**±.062	**5**±11		**14**	**0-2**
JMA	VIII	21 19 37 41.2±.1	31.95N±.00	130.49E±.01	11±2	2.8	**¶97viii3132**	
ISC	**VIII**	**21 21 57 42.0**±.72	**32.70N**±.035	**130.05E**±.047	**5**±7.3		**32**	**0-4**
JMA	VIII	21 21 57 42.4±.0	32.71N±.00	130.05E±.00	11±2	3.3	**¶97viii3145**	
ISC	**VIII**	**21 22 31 06.3**±.69	**32.71N**±.035	**130.01E**±.051	**9**±6.8		**32**	**0-4**
JMA	VIII	21 22 31 06.5±.0	32.71N±.00	130.04E±.00	14±1	3.3	**¶97viii3150**	
ISC	**VIII**	**21 23 08 31.3**±.73	**32.71N**±.041	**130.04E**±.055	**8**±7.9		**18**	**0-2**
JMA	VIII	21 23 08 31.6±.0	32.71N±.00	130.05E±.00	12±1	2.8	**¶97viii3155**	
ISC	**VIII**	**22 00 07 36.1**±.90	**31.82N**±.050	**130.25E**±.064	**5**±10		**13**	**0-2**
JMA	VIII	22 00 07 36.7±.1	31.83N±.00	130.28E±.01	7±3	2.8	**¶97viii3166**	
ISC	**VIII**	**22 10 43 58.9**±.34	**33.43N**±.041	**131.79E**±.036	**90**±7.3	3.3b	**77**	**0-57**
JMA	VIII	22 10 43 59.2±.1	33.45N±.01	131.78E±.01	85±2	3.7	**¶97viii3212**	
EIDC	VIII	22 10 44 00.1	33.5N	131.6E	71	3.9L,2.9b		
ISC	**VIII**	**22 18 35 20.8**±.88	**30.9N**±.12	**130.5E**±.19	**102**		**7**	**0-2**
JMA	VIII	22 18 35 20.8±.3	30.90N±.01	130.47E±.02	102±3		**¶97viii3263**	
ISC	**VIII**	**22 19 32 42.4**±.99	**31.86N**±.058	**131.05E**±.070	**106**±15		**32**	**0-4**
JMA	VIII	22 19 32 42.8±.2	31.85N±.01	131.03E±.01	101±3		**¶97viii3272**	
ISC	**VIII**	**22 21 46 20**±1.8	**33.62N**±.087	**131.8E**±.10	**90**±20		**16**	**0-2**
JMA	VIII	22 21 46 20.8±.2	33.62N±.01	131.82E±.01	86±2		**¶97viii3291**	
ISC	**VIII**	**23 12 18 32**±1.8	**30.6N**±.22	**130.9E**±.21	**7**		**5**	**0-1**
JMA	VIII	23 12 18 32.8±.1	30.59N±.01	130.84E±.01	7	2.8	**¶97viii3401**	
ISC	Poorly determined							
ISC	**VIII**	**23 23 10 49.9**±.74	**31.0N**±.10	**130.5E**±.18	**127**		**9**	**0-2**
JMA	VIII	23 23 10 49.9±.2	31.02N±.01	130.47E±.02	127±2		**¶97viii3460**	
ISC	**VIII**	**24 01 57 46.2**±.83	**30.05N**±.072	**131.4E**±.10	**53**±34		**34**	**1-6**
JMA	VIII	24 01 57 46.1±.3	30.08N±.02	131.40E±.03	57±4	3.2	**¶97viii3471**	
ISC	**VIII**	**24 10 40 22.9**±.41	**31.38N**±.038	**131.53E**±.056	**50**±17		**47**	**0-6**
JMA	VIII	24 10 40 23.1±.2	31.42N±.01	131.51E±.02	48±3	3.5	**¶97viii3517**	
ISC	**VIII**	**24 10 43 09.9**±.58	**31.96N**±.043	**130.43E**±.059	**10**		**19**	**0-3**
JMA	VIII	24 10 43 09.7±.0	31.96N±.00	130.49E±.00	10±2	2.9	**¶97viii3518**	
ISC	**VIII**	**24 21 19 20.9**±.81	**31.95N**±.054	**130.47E**±.059	**4**±11		**14**	**0-2**
JMA	VIII	24 21 19 21.4±.0	31.96N±.00	130.48E±.00	9±2	2.8	**¶97viii3593**	
ISC	**VIII**	**25 02 24 46.0**±.45	**32.73N**±.040	**130.72E**±.043	**10**		**23**	**0-3**
JMA	VIII	25 02 24 46.0±.1	32.75N±.01	130.74E±.01	10±3	2.8	**¶97viii3626**	
ISC	**VIII**	**25 12 53 42**±5.2	**32.2N**±.22	**130.9E**±.23	**133**±50		**8**	**0-1**
JMA	VIII	25 12 53 42.2±.5	32.18N±.03	130.92E±.03	126±4		**¶97viii3688**	
ISC	**VIII**	**25 19 37 40**±1.9	**33.49N**±.078	**131.82E**±.077	**70**±25		**17**	**0-2**
JMA	VIII	25 19 37 39.8±.2	33.50N±.01	131.84E±.01	70±3		**¶97viii3730**	
ISC	**VIII**	**25 21 31 49**±3.8	**33.2N**±.14	**131.6E**±.23	**108**±33		**16**	**0-3**
JMA	VIII	25 21 31 49.4±.1	33.19N±.01	131.59E±.01	105±2		**¶97viii3745**	
ISC	**VIII**	**25 22 07 06.8**±.39	**32.93N**±.038	**131.73E**±.038	**77**±8.8		**62**	**0-6**
JMA	VIII	25 22 07 07.3±.1	32.95N±.00	131.70E±.01	69±2		**¶97viii3747**	
ISC	**VIII**	**26 05 36 44.6**±.87	**31.96N**±.039	**130.47E**±.058	**3**±9.0		**23**	**0-3**
JMA	VIII	26 05 36 45.1±.0	31.96N±.00	130.49E±.00	10±1	2.9	**¶97viii3793**	
ISC	**VIII**	**26 13 10 30.1**±.45	**31.93N**±.034	**130.43E**±.050	**10**		**31**	**0-4**
JMA	VIII	26 13 10 29.8±.0	31.96N±.00	130.48E±.00	10±2	3.0	**¶97viii3850**	
ISC	**VIII**	**26 13 21 35**±2.5	**30.6N**±.16	**131.1E**±.25	**27**±11		**7**	**0-2**
JMA	VIII	26 13 21 34.6±.5	30.55N±.03	131.14E±.05	33±3	2.8	**¶97viii3853**	
ISC	**VIII**	**26 23 42 29**±2.4	**31.0N**±.12	**130.5E**±.14	**148**±27		**14**	**1-4**
JMA	VIII	26 23 42 29.9±.4	30.99N±.02	130.46E±.03	143±4		**¶97viii3918**	
ISC	**VIII**	**27 01 18 27**±1.4	**30.5N**±.14	**130.4E**±.23	**76**		**4**	**0-1**
JMA	VIII	27 01 18 26.5±.3	30.51N±.01	130.45E±.02	76±4		**¶97viii3924**	
ISC	Poorly determined							
ISC	**VIII**	**27 13 02 12**±3.4	**30.9N**±.15	**130.3E**±.26	**174**±32		**13**	**1-4**
JMA	VIII	27 13 02 13.1±.4	30.94N±.02	130.32E±.03	160±4		**¶97viii3986**	
ISC	**VIII**	**27 13 22 15**±2.3	**30.9N**±.37	**130.3E**±.33	**135**		**4**	**1-1**
JMA	VIII	27 13 22 15.7±.5	30.88N±.03	130.33E±.03	135±5		**¶97viii3987**	
ISC	Poorly determined							
ISC	**VIII**	**27 19 10 15**±2.1	**31.3N**±.10	**130.5E**±.14	**169**±22		**22**	**0-4**
JMA	VIII	27 19 10 16.6±.3	31.26N±.01	130.42E±.02	158±4		**¶97viii4027**	
ISC	**VIII**	**27 19 56 33**±1.1	**31.4N**±.17	**130.4E**±.22	**163**		**8**	**0-2**
JMA	VIII	27 19 56 33.0±.4	31.37N±.02	130.41E±.02	163±4		**¶97viii4030**	
JMA	**VIII**	**27 21 31 06.9**±.4	**30.02N**±.03	**130.83E**±.03	**60**		**¶97viii4041**	
ISC	**VIII**	**28 00 32 47.1**±.74	**32.81N**±.043	**130.77E**±.047	**4**±8.2		**21**	**0-2**
JMA	VIII	28 00 32 47.6±.0	32.82N±.00	130.76E±.00	13±2	2.8	**¶97viii4061**	
ISC	**VIII**	**28 12 44 25**±5.2	**31.2N**±.14	**130.4E**±.26	**155**±55		**10**	**0-3**
JMA	VIII	28 12 44 25.4±.2	31.18N±.01	130.39E±.02	155±3		**¶97viii4135**	
ISC	**VIII**	**29 17 06 01.9**±.93	**32.39N**±.044	**130.61E**±.062	**7**±11		**16**	**0-2**
JMA	VIII	29 17 06 02.2±.0	32.39N±.00	130.63E±.01	11±2	2.8	**¶97viii4350**	
ISC	**VIII**	**30 02 27 07.7**±.80	**31.5N**±.12	**130.5E**±.20	**143**		**8**	**1-2**
JMA	VIII	30 02 27 07.7±.5	31.50N±.02	130.54E±.03	143±5		**¶97viii4410**	
ISC	**VIII**	**30 06 08 16**±2.0	**31.37N**±.076	**131.5E**±.19	**33**±11		**11**	**0-2**
JMA	VIII	30 06 08 15.0±.3	31.35N±.01	131.60E±.03	45±3	2.9	**¶97viii4436**	
ISC	**VIII**	**31 13 42 49.5**±.61	**32.12N**±.042	**130.04E**±.061	**9**		**16**	**0-2**
JMA	VIII	31 13 42 49.6±.1	32.11N±.00	130.05E±.00	9±2	2.8	**¶97viii4661**	
ISC	**VIII**	**31 14 55 23**±1.8	**31.0N**±.24	**130.2E**±.46	**157**		**6**	**1-3**
JMA	VIII	31 14 55 23.7±.3	30.96N±.02	130.27E±.04	157±4		**¶97viii4671**	

ISC	**IX**	**01 03 36 52.7**±.80	**30.11N**±.029	**131.22E**±.030	**26**±6.2	**4.5b,4.9s**	**166**	**1-166**		
JMA	IX	01 03 36 52.7±.3	30.07N±.02	131.38E±.03	51±5	4.2		¶97ix0034		
NEIC	IX	01 03 36 54.0	30.19N	131.04E	33	4.7b				
MOS	IX	01 03 36 54.2	30.3N	131.1E	33	5.1b,4.9s				
BJI	IX	01 03 36 54.9	30.03N	131.36E	59	4.6b,4.7s				
EIDC	IX	01 03 36 55.8	30.3N	131.0E	32	4.2b,4.0L				
ISC	**IX**	**01 03 52 03.1**±.88	**30.07N**±.070	**131.36E**±.090	**47**		**25**	**1-5**		
JMA	IX	01 03 52 02.5±.3	30.06N±.02	131.38E±.03	47±5	3.2		¶97ix0035		
ISC	**IX**	**01 04 14 27**±1.8	**30.08N**±.073	**131.37E**±.079	**28**±18		**24**	**1-6**		
JMA	IX	01 04 14 26.4±.3	30.07N±.02	131.40E±.03	47±5	3.2		¶97ix0038		
JMA	**IX**	**01 04 46 50.6**±.4	**30.06N**±.02	**131.39E**±.03	**41**±5	**3.1**		¶97ix0044		
ISC	**IX**	**01 06 51 36**±3.2	**30.1N**±.12	**131.3E**±.35	**37**		**7**	**1-3**		
JMA	IX	01 06 51 34.1±.5	30.07N±.02	131.39E±.04	37	3.3		¶97ix0064		
ISC	**IX**	**01 19 50 31**±3.2	**30.6N**±.19	**131.1E**±.32	**26**±12		**6**	**0-2**		
JMA	IX	01 19 50 30.6±.4	30.54N±.02	131.15E±.03	30±2	2.8		¶97ix0155		
ISC	**IX**	**02 13 10 29.1**±.89	**30.07N**±.030	**131.23E**±.031	**25**±7.3	**4.3b**	**151**	**1-101**		
JMA	IX	02 13 10 30.2±.3	30.11N±.01	131.25E±.03	48±4	4.1		¶97ix0280		
NEIC	IX	02 13 10 32.7	30.07N	130.88E	55	4.6b				
BJI	IX	02 13 10 33.8	29.94N	130.92E	71	4.7b,4.4s				
EIDC	IX	02 13 10 35.3	30.1N	130.9E	64	3.9b,4.0L				
ISC	**IX**	**02 14 46 36**±1.5	**31.0N**±.20	**130.4E**±.36	**130**		**5**	**1-2**		
JMA	IX	02 14 46 36.2±.3	30.97N±.02	130.35E±.03	130±3			¶97ix0285		
ISC	**IX**	**03 16 03 26**±1.7	**30.1N**±.11	**131.1E**±.19	**42**±63		**11**	**1-3**		
JMA	IX	03 16 03 25.4±.2	30.06N±.01	131.06E±.02	56±3	2.8		¶97ix0446		
ISC	**IX**	**03 18 36 42**±1.0	**32.66N**±.060	**131.36E**±.061	**100**±14		**31**	**0-4**		
JMA	IX	03 18 36 42.1±.1	32.66N±.01	131.37E±.01	90±2			¶97ix0463		
ISC	**IX**	**03 19 52 42**±6.4	**31.4N**±.11	**129.1E**±.39	**2**±26		**7**	**1-2**		
JMA	IX	03 19 52 42.3±.5	31.43N±.01	129.05E±.04	0	2.9		¶97ix0470		
ISC	**IX**	**03 21 04 31.1**±.52	**30.76N**±.039	**130.48E**±.076	**120**±11		**43**	**0-6**		
JMA	IX	03 21 04 32.3±.1	30.80N±.00	130.44E±.01	107±1			¶97ix0490		
ISC	**IX**	**04 00 52 18**±3.7	**30.2N**±.12	**131.2E**±.35	**25**±21		**7**	**1-2**		
JMA	IX	04 00 52 16.9±.5	30.15N±.02	131.35E±.05	34	3.1		¶97ix0519		
ISC	**IX**	**04 03 01 01**±1.8	**33.67N**±.081	**131.93E**±.090	**86**±21		**20**	**0-2**		
JMA	IX	04 03 01 01.7±.2	33.69N±.01	131.94E±.01	75±2			¶97ix0537		
ISC	**IX**	**04 12 42 29**±3.0	**30.2N**±.12	**131.2E**±.26	**28**±19		**7**	**1-2**		
JMA	IX	04 12 42 27.4±.5	30.13N±.02	131.36E±.04	39	2.9		¶97ix0593		
ISC	**IX**	**04 13 09 13**±4.4	**30.2N**±.24	**131.2E**±.38	**32**		**6**	**0-2**		
JMA	IX	04 13 09 10.5±.5	30.13N±.02	131.42E±.04	32	2.8		¶97ix0595		
ISC	**IX**	**05 03 17 56**±1.1	**33.46N**±.059	**131.96E**±.069	**77**±16		**24**	**0-3**		
JMA	IX	05 03 17 56.3±.1	33.47N±.01	131.94E±.01	69±2			¶97ix0677		
ISC	**IX**	**05 06 07 56.9**±.90	**30.10N**±.072	**131.38E**±.088	**36**		**20**	**1-5**		
JMA	IX	05 06 07 56.0±.3	30.10N±.02	131.40E±.02	36±5	3.2		¶97ix0702		
ISC	**IX**	**05 07 59 10.9**±.55	**32.00N**±.040	**130.29E**±.057	**9**		**16**	**0-2**		
JMA	IX	05 07 59 10.7±.1	31.99N±.00	130.30E±.01	9±3	2.8		¶97ix0715		
ISC	**IX**	**06 01 39 06.8**±.89	**32.07N**±.047	**130.48E**±.062	**6**±9.1		**17**	**0-3**		
JMA	IX	06 01 39 07.2±.1	32.08N±.00	130.51E±.01	9±2	2.9		¶97ix0835		
ISC	**IX**	**06 10 20 54**±1.0	**31.18N**±.062	**129.93E**±.099	**5**		**9**	**1-2**		
JMA	IX	06 10 20 54.3±.2	31.18N±.01	129.92E±.01	5±3	2.9		¶97ix0900		
ISC	**IX**	**06 17 46 35.3**±.44	**30.12N**±.035	**131.34E**±.041	**36**±5.9	**3.8b,4.1s**	**88**	**1-92**		
BJI	IX	06 17 46 28.8	29.42N	131.94E	32	4.0b,4.4s		¶97ix0950		
JMA	IX	06 17 46 34.9±.3	30.13N±.02	131.37E±.03	40±5	3.6				
NEIC	IX	06 17 46 35.4	30.19N	131.15E	32	4.4b				
EIDC	IX	06 17 46 37.8	30.2N	131.0E	34	3.5b,4.0s				
NEIC	Less reliable solution.									
ISC	**IX**	**07 08 18 42**±1.3	**33.60N**±.062	**131.82E**±.069	**86**±17		**24**	**0-2**		
JMA	IX	07 08 18 42.3±.1	33.61N±.01	131.82E±.01	76±2			¶97ix1029		
ISC	**IX**	**07 17 35 15**±6.9	**30.4N**±.43	**131.7E**±.42	**55**±53		**9**	**1-3**		
JMA	IX	07 17 35 11.5±.5	30.20N±.03	131.93E±.03	58	2.8		¶97ix1109		
ISC	**IX**	**08 07 30 19.5**±.85	**31.94N**±.048	**130.38E**±.061	**6**±9.0		**16**	**0-2**		
JMA	IX	08 07 30 19.9±.0	31.96N±.00	130.42E±.00	8±2	2.8		¶97ix1190		
ISC	**IX**	**08 20 19 55.3**±.90	**31.6N**±.16	**130.5E**±.24	**160**		**7**	**0-1**		
JMA	IX	08 20 19 55.3±.4	31.56N±.02	130.53E±.03	160±4			¶97ix1275		
JMA	**IX**	**09 00 21 06.0**±.3	**31.13N**±.01	**131.75E**±.03	**37**	**2.8**		¶97ix1300		
ISC	**IX**	**09 01 23 34**±1.2	**31.23N**±.080	**131.05E**±.069	**78**±18		**25**	**0-5**		
JMA	IX	09 01 23 35.5±.0	31.28N±.00	130.96E±.01	62±1			¶97ix1308		
ISC	**IX**	**09 14 00 36**±1.6	**30.9N**±.21	**130.3E**±.42	**149**		**6**	**0-2**		
JMA	IX	09 14 00 36.8±.3	30.90N±.02	130.32E±.04	149±3			¶97ix1387		
ISC	**IX**	**09 15 56 55.0**±.55	**31.73N**±.048	**131.91E**±.051	**41**±13	3.4b	**48**	**1-58**		
JMA	IX	09 15 56 53.7±.2	31.72N±.01	131.99E±.02	33±4	3.5		¶97ix1402		
EIDC	IX	09 15 57 11.9	32.1N	131.7E	186	2.8b				
ISC	**IX**	**10 05 31 51.0**±.87	**30.09N**±.067	**131.40E**±.079	**36**		**24**	**1-5**		
JMA	IX	10 05 31 50.3±.4	30.10N±.01	131.41E±.03	36±4	3.2		¶97ix1477		
ISC	**IX**	**10 11 09 07.9**±.99	**30.17N**±.080	**130.4E**±.13	**22**		**8**	**0-2**		
JMA	IX	10 11 09 07.6±.3	30.16N±.02	130.40E±.03	22±5	3.0		¶97ix1515		
ISC	**IX**	**11 08 47 52.2**±.72	**32.71N**±.044	**130.05E**±.061	**10**±8.5		**14**	**0-2**		
JMA	IX	11 08 47 52.4±.0	32.71N±.00	130.06E±.00	11±1	2.8		¶97ix1653		
ISC	**IX**	**11 13 05 25.9**±.41	**32.92N**±.037	**130.81E**±.042	**13**		**25**	**0-2**		
JMA	IX	11 13 05 25.4±.0	32.93N±.00	130.81E±.00	13±2	2.8		¶97ix1678		
ISC	**IX**	**11 20 01 46**±2.5	**31.0N**±.10	**131.9E**±.28	**54**±52		**10**	**1-3**		
JMA	IX	11 20 01 46.2±.1	30.95N±.01	131.86E±.02	58±2	3.0		¶97ix1727		
ISC	**IX**	**12 03 16 20**±3.0	**31.0N**±.16	**130.4E**±.15	**168**±26		**20**	**1-4**		
JMA	IX	12 03 16 21.4±.2	30.99N±.01	130.36E±.02	154±2			¶97ix1765		
ISC	**IX**	**12 12 55 59.7**±.71	**32.93N**±.035	**130.80E**±.036	**7**±6.3		**37**	**0-5**		
JMA	IX	12 12 56 00.1±.0	32.93N±.00	130.81E±.00	13±1	3.5		¶97ix1814		
ISC	**IX**	**12 13 01 00.9**±.75	**32.93N**±.041	**130.83E**±.047	**8**±7.9		**21**	**0-2**		
JMA	IX	12 13 01 01.2±.0	32.93N±.00	130.81E±.00	13±1	2.8		¶97ix1815		
ISC	**IX**	**12 13 05 04.2**±.57	**32.93N**±.034	**130.82E**±.037	**2**±6.2		**31**	**0-3**		
JMA	IX	12 13 05 04.9±.0	32.93N±.00	130.82E±.00	14±1	2.9		¶97ix1816		
ISC	**IX**	**12 19 34 27**±4.1	**31.9N**±.14	**131.2E**±.19	**50**±63		**7**	**0-1**		
JMA	IX	12 19 34 26.2±.2	31.84N±.01	131.18E±.02	62±3			¶97ix1865		
ISC	**IX**	**12 19 37 37**±1.1	**33.58N**±.064	**131.98E**±.059	**78**±17		**24**	**0-2**		
JMA	IX	12 19 37 37.5±.1	33.60N±.01	131.97E±.01	70±2			¶97ix1866		
ISC	**IX**	**13 03 39 29.7**±.52	**30.96N**±.052	**131.61E**±.072	**54**±24		**32**	**1-5**		
JMA	IX	13 03 39 30.7±.2	31.00N±.01	131.51E±.03	47±3	3.2		¶97ix1910		
ISC	**IX**	**13 05 50 18.1**±.61	**31.95N**±.041	**129.87E**±.070	**11**		**20**	**0-3**		
JMA	IX	13 05 50 17.8±.1	31.96N±.00	129.86E±.01	11±2	3.2		¶97ix1929		
ISC	**IX**	**13 18 02 05.1**±.74	**31.96N**±.055	**130.40E**±.072	**7**		**12**	**0-2**		
JMA	IX	13 18 02 05.1±.1	31.98N±.00	130.42E±.01	7±2	2.9		¶97ix2006		
ISC	**IX**	**14 12 42 10.9**±.99	**33.56N**±.061	**131.82E**±.059	**92**±13		**29**	**0-3**		
JMA	IX	14 12 42 11.4±.1	33.58N±.00	131.80E±.00	85±1			¶97ix2125		
ISC	**IX**	**15 03 03 53.4**±.38	**31.09N**±.033	**131.54E**±.035	**46**±4.8	**4.2b,4.4s**	**100**	**0-124**		
BJI	IX	15 03 03 46.0	30.94N	132.12E	33	4.6b,4.5s		¶97ix2195		
EIDC	IX	15 03 03 49.5	31.2N	131.3E	0	4.1b,3.5L				
NEIC	IX	15 03 03 53.3	31.21N	131.22E	33	4.4b				
JMA	IX	15 03 03 54.0±.2	31.14N±.01	131.46E±.03	39±2	4.2				
BJI	IX	15 03 03 59.7	31.35N	131.22E	30	4.8b,4.4s				
NEIC	Less reliable solution.									
NEIC	Felt I=II J1 in south eastern Kagoshima Prefecture.									
ISC	**IX**	**16 03 40 49.8**±.59	**33.85N**±.052	**131.99E**±.044	**79**±10		**44**	**0-6**		
JMA	IX	16 03 40 50.2±.1	33.86N±.01	131.99E±.01	71±2			¶97ix2325		
ISC	**IX**	**18 00 12 23**±2.6	**32.6N**±.11	**131.1E**±.16	**154**±29		**18**	**0-3**		
JMA	IX	18 00 12 23.9±.3	32.53N±.02	131.18E±.02	149±3			¶97ix2583		
ISC	**IX**	**18 06 29 31.5**±.90	**31.94N**±.055	**130.30E**±.087	**3**±17		**9**	**0-1**		
JMA	IX	18 06 29 31.9±.1	31.93N±.01	130.30E±.01	7±4	2.8		¶97ix2623		
ISC	**IX**	**18 10 46 53.6**±.49	**31.76N**±.045	**131.98E**±.053	**47**±30		**42**	**1-5**		
JMA	IX	18 10 46 53.5±.1	31.78N±.01	131.98E±.01	44±4	3.2		¶97ix2648		
ISC	**IX**	**19 09 44 35**±1.2	**31.71N**±.046	**131.88E**±.077	**26**±12		**30**	**1-5**		
JMA	IX	19 09 44 35.0±.3	31.71N±.01	131.93E±.02	34±5	3.4		¶97ix2774		
ISC	**IX**	**19 23 14 35**±1.9	**31.11N**±.098	**130.5E**±.11	**157**±20		**27**	**0-4**		
JMA	IX	19 23 14 36.6±.2	31.14N±.01	130.47E±.02	147±2			¶97ix2864		
ISC	**IX**	**20 18 57 40**±1.1	**30.9N**±.17	**130.3E**±.25	**159**		**7**	**0-2**		
JMA	IX	20 18 57 40.3±.5	30.93N±.02	130.29E±.03	159±4			¶97ix2989		
ISC	**IX**	**21 10 40 23**±1.5	**30.58N**±.080	**131.1E**±.15	**25**±8.9		**18**	**0-4**		
JMA	IX	21 10 40 22.3±.2	30.56N±.01	131.19E±.02	33±2	3.2		¶97ix3086		
ISC	**IX**	**21 12 07 23.2**±.94	**32.99N**±.061	**131.57E**±.062	**90**±13		**30**	**0-4**		
JMA	IX	21 12 07 23.7±.1	33.01N±.01	131.55E±.01	83±2			¶97ix3096		
ISC	**IX**	**21 16 40 34.9**±.93	**33.27N**±.053	**131.84E**±.059	**61**±15		**21**	**0-2**		
JMA	IX	21 16 40 34.6±.1	33.27N±.01	131.86E±.01	63±2			¶97ix3131		
ISC	**IX**	**22 04 07 13.8**±.80	**31.95N**±.044	**130.40E**±.060	**8**±8.6		**19**	**0-2**		
JMA	IX	22 04 07 14.3±.0	31.97N±.00	130.43E±.00	9±2	2.8		¶97ix3206		
ISC	**IX**	**23 23 25 41**±1.4	**32.7N**±.33	**131.2E**±.51	**131**		**4**	**0-1**		
JMA	IX	23 23 25 40.5±.2	32.73N±.01	131.22E±.03	131±2			¶97ix3498		
ISC	Poorly determined									
ISC	**IX**	**25 14 05 56.7**±.83	**31.8N**±.15	**130.6E**±.21	**152**		**9**	**0-2**		
JMA	IX	25 14 05 56.8±.2	31.79N±.01	130.61E±.01	152±2			¶97ix3748		
ISC	**IX**	**25 20 42 58.9**±.60	**31.95N**±.046	**130.41E**±.053	**7**		**20**	**0-3**		
JMA	IX	25 20 42 59.0±.0	31.97N±.00	130.46E±.00	7±2	3.0		¶97ix3792		
ISC	**IX**	**26 09 16 24.1**±.57	**31.94N**±.039	**130.12E**±.055	**2**		**19**	**0-3**		
JMA	IX	26 09 16 24.1±.1	31.94N±.00	130.15E±.01	2±2	2.8		¶97ix3932		
ISC	**IX**	**26 14 50 52.0**±.87	**31.96N**±.056	**130.45E**±.076	**7**±13		**9**	**0-1**		
JMA	IX	26 14 50 52.4±.1	31.96N±.00	130.46E±.01	6±4	3.0		¶97ix4048		
ISC	**IX**	**26 14 51 02.7**±.55	**31.95N**±.043	**130.39E**±.050	**9**		**27**	**0-3**		
JMA	IX	26 14 51 02.6±.1	31.96N±.00	130.45E±.01	9±3	3.4		¶97ix4049		
JMA	Felt I=II J1									
ISC	**IX**	**27 07 03 38.0**±.73	**31.96N**±.055	**130.32E**±.064	**9**		**11**	**0-2**		
JMA	IX	27 07 03 38.1±.1	31.97N±.00	130.32E±.01	9±2	2.8		¶97ix4279		
ISC	**IX**	**28 07 57 20**±2.5	**31.3N**±.12	**130.8E**±.16	**131**±27		**15**	**0-4**		
JMA	IX	28 07 57 22.2±.3	31.31N±.01	130.76E±.02	109±3			¶97ix4583		
ISC	**IX**	**29 11 18 03**±2.0	**32.1N**±.36	**131.0E**±.21	**112**		**7**	**0-1**		
JMA	IX	29 11 18 02.6±.3	32.07N±.02	131.01E±.02	112±3			¶97ix4935		
ISC	**IX**	**29 23 09 58**±2.0	**31.09N**±.085	**131.5E**±.20	**30**±11		**12**	**0-3**		
JMA	IX	29 23 09 58.0±.2	31.09N±.01	131.52E±.02	42±2	3.1		¶97ix5050		
ISC	**IX**	**30 13 02 41**±2.2	**30.4N**±.15	**130.0E**±.32	**91**±32		**7**	**1-3**		
JMA	IX	30 13 02 40.5±.1	30.31N±.02	130.08E±.04	96			¶97ix5233		
ISC	**X**	**01 14 32 56**±5.1	**30.7N**±.21	**131.4E**±.51	**29**±14		**7**	**0-2**		
JMA	X	01 14 32 53.2±.3	30.57N±.02	131.53E±.02	47±3	2.9		¶97x0101		
ISC	**X**	**01 21 22 03**±1.4	**30.50N**±.091	**130.4E**±.16	**71**±22		**11**	**0-3**		
JMA	X	01 21 22 02.8±.1	30.48N±.01	130.47E±.01	70±1	2.5		¶97x0155		
ISC	**X**	**01 21 29 28**±3.3	**30.4N**±.19	**130.9E**±.23	**10**±18		**5**	**0-1**		
JMA	X	01 21 29 28.2±.3	30.38N±.02	130.91E±.02	8±5	2.8		¶97x0158		
ISC	Poorly determined									
ISC	**X**	**02 06 53 51**±3.3	**30.6N**±.19	**131.1E**±.33	**25**±12		**6**	**0-2**		
JMA	X	02 06 53 50.5±.2	30.57N±.01	131.13E±.02	30±2	2.8		¶97x0226		
JMA	**X**	**02 10 26 28.9**±.7	**30.46N**±.04	**131.17E**±.05	**34**	**2.8**		¶97x0260		
ISC	**X**	**02 10 54 52**±2.9	**30.8N**±.19	**131.2E**±.32	**26**±16		**7**	**0-2**		
JMA	X	02 10 54 48.7±.4	30.64N±.02	131.50E±.04	50±4	3.1		¶97x0263		
ISC	**X**	**02 11 47 03**±3.4	**30.7N**±.20	**131.4E**±.31	**48**		**7**	**0-2**		
JMA	X	02 11 47 02.1±.5	30.66N±.03	131.48E±.04	48±4	3.0		¶97x0276		
ISC	**X**	**02 12 12 31.3**±.86	**31.98N**±.060	**130.38E**±.077	**9**±12		**8**	**0-1**		
JMA	X	02 12 12 31.6±.0	31.97N±.00	130.39E±.00	7±1	3.4		¶97x0281		
JMA	**X**	**02 12 53 49.0**±.4	**30.64N**±.02	**131.56E**±.03	**36**±4	**2.8**		¶97x0287		
ISC	**X**	**03 12 44 18**±4.6	**31.1N**±.17	**130.5E**±.15	**149**±45		**14**	**0-2**		
JMA	X	03 12 44 19.8±.1	31.13N±.01	130.53E±.01	139±1			¶97x0464		
ISC	**X**	**03 18 33 30**±1.1	**32.84N**±.084	**129.19E**±.091	**15**		**7**	**0-1**		
JMA	X	03 18 33 29.9±.0	32.81N±.00	129.19E±.01	15±2	3.7		¶97x0508		
ISC	**X**	**03 18 41 38**±1.4	**30.6N**±.14	**130.8E**±.15	**8**±18		**5**	**0-1**		
JMA	X	03 18 41 38.6±.1	30.61N±.01	130.82E±.02	8±4	2.8		¶97x0509		
ISC	Poorly determined									
ISC	**X**	**04 04 55 33**±2.8	**30.8N**±.22	**131.3E**±.28	**28**±20		**7**	**0-2**		
JMA	X	04 04 55 30.7±.3	30.62N±.02	131.53E±.03	46±4	2.8		¶97x0584		
ISC	**X**	**04 22 51 47.2**±.87	**31.98N**±.060	**130.39E**±.077	**9**±13		**8**	**0-1**		
JMA	X	04 22 51 47.5±.0	31.98N±.00	130.39E±.00	8±1	3.2		¶97x0752		
ISC	**X**	**05 22 35 14**±3.2	**32.7N**±.11	**131.2E**±.13	**141**±35		**13**	**0-2**		
JMA	X	05 22 35 13.4±.2	32.68N±.01	131.21E±.01	145±2			¶97x0945		
ISC	**X**	**05 23 16 28**±1.8	**31.2N**±.19	**130.4E**±.41	**145**		**6**	**0-2**		
JMA	X	05 23 16 27.5±.2	31.14N±.01	130.41E±.02	145±2			¶97x0947		
ISC	**X**	**06 06 14 34**±2.0	**33.38N**±.092	**131.99E**±.077	**67**±28		**13**	**0-2**		
JMA	X	06 06 14 33.8±.1	33.38N±.01	132.00E±.00	64±1	2.0		¶97x1006		
ISC	**X**	**07 00 19 30**±3.2	**31.3N**±.10	**130.4E**±.15	**156**±36		**14**	**0-2**		
JMA	X	07 00 19 30.1±.1	31.25N±.01	130.40E±.01	154±1			¶97x1143		
ISC	**X**	**07 00 40 44**±4.4	**33.0N**±.15	**131.4E**±.18	**129**±41		**11**	**0-2**		
JMA	X	07 00 40 45.0±.2	33.01N±.01	131.39E±.01	122±2			¶97x1146		
ISC	**X**	**07 01 19 20.8**±.86	**31.97N**±.060	**130.41E**±.078	**9**±12		**8**	**0-1**		
JMA	X	07 01 19 21.1±.0	31.97N±.00	130.41E±.00	8±1	3.6		¶97x1152		
JMA	Felt I=II J1									
JMA	Nodal plane solution: N35, Score 100%. NP1:ϕ_S295°,δ34°,λ−3°. NP2:ϕ_S27°,δ88°,λ−124°. Principle axes: T Plg34°,Azm145°; N Plg34°,Azm29°; P Plg38°,Azm267°.									
ISC	**X**	**07 05 18 55**±1.0	**31.96N**±.067	**130.51E**±.092	**6**±15		**7**	**0-1**		
JMA	X	07 05 18 55.6±.0	31.97N±.00	130.50E±.00	8±2	3.1		¶97x1188		
ISC	**X**	**07 10 10 49.2**±.91	**32.01N**±.057	**130.15E**±.084	**4**±16		**8**	**0-1**		
JMA	X	07 10 10 49.4±.0	31.99N±.00	130.13E±.00	7±1	3.0		¶97x1225		
ISC	**X**	**07 22 35 11.9**±.96	**31.98N**±.063	**130.51E**±.084	**9**±15		**7**	**0-1**		
JMA	X	07 22 35 12.2±.0	31.97N±.00	130.51E±.00	8±2	2.8		¶97x1315		
ISC	**X**	**08 04 04 20.1**±.84	**31.99N**±.059	**130.35E**±.073	**9**±12		**9**	**0-1**		
JMA	X	08 04 04 20.3±.0	31.98N±.00	130.35E±.00	7±1	2.9		¶97x1353		
ISC	**X**	**08 18 25 15**±2.3	**33.44N**±.083	**131.6E**±.11	**115**±25		**20**	**0-3**		
JMA	X	08 18 25 15.6±.1	33.45N±.01	131.60E±.01	106±2			¶97x1450		
ISC	**X**	**08 18 28 37**±2.8	**32.6N**±.18	**131.15E**±.095	**158**±30		**17**	**0-3**		
JMA	X	08 18 28 38.1±.1	32.60N±.01	131.14E±.01	151±2			¶97x1452		
ISC	**X**	**08 21 40 55**±1.9	**32.46N**±.099	**131.2E**±.12	**144**±22		**18**	**0-4**		
JMA	X	08 21 40 55.6±.2	32.45N±.01	131.15E±.01	142±2			¶97x1483		
JMA	**X**	**09 13 49 24.7**±.3	**30.52N**±.01	**130.38E**±.02	**77**±3	**1.8**		¶97x1590		
ISC	**X**	**09 18 49 49**±1.2	**31.4N**±.23	**130.4E**±.26	**146**		**5**	**0-1**		
JMA	X	09 18 49 49.6±.2	31.34N±.01	130.49E±.01	146±2			¶97x1626		
ISC	**X**	**10 04 53 08.6**±.73	**32.65N**±.046	**131.33E**±.094	**8**±13		**11**	**0-1**		
JMA	X	10 04 53 09.0±.0	32.64N±.00	131.35E±.00	12±1	3.0		¶97x1692		
ISC	**X**	**10 05 35 09**±7.2	**31.8N**±.42	**131.7E**±.38	**20**		**7**	**0-2**		
JMA	X	10 05 35 07.1±.3	31.65N±.01	131.78E±.01	20±2	3.0		¶97x1695		
ISC	**X**	**10 05 37 40**±1.9	**31.71N**±.097	**131.8E**±.16	**25**±16		**8**	**1-1**		
JMA	X	10 05 37 40.1±.2	31.70N±.01	131.84E±.01	29±3	3.9		¶97x1696		

| Agency | | Origin Time | | |

BJI XI 11 21 46 50.8 31.03N 129.72E 176 4.6b
ISC XI 11 23 58 37.6±.69 **32.87N**±.038 **130.98E**±.045 **6**±5.6 **4.0b**,3.8s **31 0-72**
JMA XI 11 23 58 38.2±.0 32.92N±.00 130.97E±.00 12±1 4.1 **¶97xi1899**
BJI XI 11 23 58 38.2 32.72N 131.75E 59 4.2b,4.5s
EIDC XI 11 23 58 39.2 32.6N 130.5E 0 3.8b,3.8L
NEIC XI 11 23 58 41.2 32.85N 131.11E 33 4.4b
JMA Felt I=III J1
JMA Nodal plane solution: N71, Score 93%. NP1:φS325°,δ39°,λ6°. NP2:φS229°,δ86°,λ129°.
Principle axes: T Plg37°,Azm172°; N Plg38°,Azm45°; P Plg30°,Azm288°.
NEIC Less reliable solution.
ISC XI 11 23 59 52±1.0 **32.91N**±.079 **130.96E**±.081 **11** **10 0-1**
JMA XI 11 23 59 51.8±.0 32.92N±.00 130.96E±.00 11±2 3.3 **¶97xi1900**
ISC XI 12 00 01 12±1.0 **32.91N**±.058 **130.98E**±.061 **12**±12 **12 0-1**
JMA XI 12 00 01 12.0±.0 32.91N±.00 130.97E±.00 11±1 2.9 **¶97xi1901**
ISC XI 12 08 17 35.8±.87 **31.98N**±.060 **130.39E**±.077 **8**±13 **8 0-1**
JMA XI 12 08 17 36.0±.0 31.97N±.00 130.38E±.00 5±1 2.8 **¶97xi1956**
ISC XI 12 11 57 56±1.0 **32.39N**±.058 **130.66E**±.093 **8**±15 **8 0-1**
JMA XI 12 11 57 56.8±.0 32.38N±.00 130.64E±.00 11±1 2.8 **¶97xi1983**
ISC XI 12 17 46 43.3±.75 **32.40N**±.051 **130.65E**±.066 **6**±13 **10 0-1**
JMA XI 12 17 46 43.7±.0 32.38N±.00 130.63E±.00 11±1 2.8 **¶97xi2014**
ISC XI 12 19 53 49.0±.83 **32.92N**±.053 **130.98E**±.059 **11**±9.8 **11 0-1**
JMA XI 12 19 53 49.4±.0 32.92N±.00 130.97E±.00 10±1 2.8 **¶97xi2028**
JMA XI 12 23 56 43.3±.4 **31.07N**±.02 **131.47E**±.03 **61**±3 **1.9** **¶97xi2051**
ISC XI 13 01 12 35.1±.93 **31.2N**±.11 **130.3E**±.20 **156** **11 0-2**
JMA XI 13 01 12 35.5±.2 31.16N±.01 130.34E±.01 156±2 **¶97xi2060**
ISC XI 13 12 44 11±2.8 **33.5N**±.11 **131.9E**±.13 **73**±33 **13 0-2**
JMA XI 13 12 44 11.1±.1 33.48N±.00 131.90E±.00 65±1 2.2 **¶97xi2136**
ISC XI 13 21 37 10±3.2 **31.39N**±.087 **129.6E**±.32 **12** **5 0-1**
JMA XI 13 21 37 10.6±.1 31.37N±.00 129.61E±.01 12±2 3.3 **¶97xi2195**
ISC XI 14 02 23 12±1.8 **31.4N**±.21 **130.5E**±.45 **150** **5 0-1**
JMA XI 14 02 23 12.5±.4 31.40N±.02 130.49E±.03 150±4 **¶97xi2224**
JMA XI 14 15 27 08.4±.1 **31.21N**±.01 **130.87E**±.01 **85**±1 **1.5** **¶97xi2308**
ISC XI 14 15 31 42±1.1 **31.3N**±.14 **130.6E**±.19 **124** **7 0-2**
JMA XI 14 15 31 42.3±.2 31.24N±.01 130.62E±.01 124±2 **¶97xi2309**
ISC XI 15 01 12 42±3.0 **31.41N**±.086 **129.6E**±.30 **9** **5 0-1**
JMA XI 15 01 12 43.3±.1 31.38N±.00 129.63E±.01 9±2 3.0 **¶97xi2394**
ISC XI 15 01 24 57±2.9 **31.41N**±.085 **129.6E**±.29 **8** **5 0-1**
JMA XI 15 01 24 58.2±.1 31.38N±.00 129.63E±.01 8±2 2.8 **¶97xi2398**
ISC XI 15 03 53 24±1.6 **30.0N**±.11 **130.9E**±.21 **56** **8 1-2**
JMA XI 15 03 53 22.5±.2 29.93N±.02 131.10E±.02 56 2.9 **¶97xi2411**
ISC XI 15 05 48 49±6.1 **33.0N**±.18 **131.5E**±.27 **133**±59 **9 0-2**
JMA XI 15 05 48 49.7±.2 33.04N±.01 131.43E±.02 127±2 **¶97xi2425**
ISC XI 15 13 07 43±2.8 **33.5N**±.30 **131.9E**±.31 **86** **5 0-1**
JMA XI 15 13 07 42.4±.1 33.55N±.01 131.84E±.01 86±2 1.4 **¶97xi2479**
ISC XI 15 19 34 03±3.7 **30.6N**±.15 **130.4E**±.19 **77**±45 **6 0-1**
JMA XI 15 19 34 03.8±.0 30.58N±.00 130.47E±.00 71±1 2.0 **¶97xi2522**
ISC XI 15 21 10 41.8±.89 **32.49N**±.068 **131.99E**±.067 **25**±8.7 **17 0-2**
JMA XI 15 21 10 42.0±.1 32.49N±.00 131.98E±.01 35±2 2.8 **¶97xi2538**
ISC XI 16 01 13 17±2.9 **30.6N**±.20 **131.0E**±.34 **25**±14 **5 0-1**
JMA XI 16 01 13 16.8±.2 30.60N±.01 131.11E±.02 29±2 3.0 **¶97xi2580**
ISC Poorly determined
JMA XI 16 01 31 09.7±.3 **31.40N**±.01 **130.52E**±.02 **148**±2 **¶97xi2581**
ISC XI 16 08 19 42.6±.98 **31.86N**±.065 **130.30E**±.095 **5**±18 **7 0-1**
JMA XI 16 08 19 42.8±.0 31.85N±.00 130.29E±.00 7±1 2.9 **¶97xi2616**
ISC XI 16 08 44 48±5.2 **32.3N**±.22 **131.2E**±.21 **53**±64 **6 0-1**
JMA XI 16 08 44 46.8±.1 32.32N±.00 131.25E±.01 65±1 1.4 **¶97xi2620**
ISC XI 16 09 07 40±3.1 **31.4N**±.10 **130.5E**±.13 **162**±32 **14 0-2**
JMA XI 16 09 07 40.5±.2 31.38N±.01 130.45E±.01 152±2 **¶97xi2625**
ISC XI 17 14 11 41.6±.61 **31.95N**±.064 **130.91E**±.088 **124**±7.9 **3.7b** **25 0-135**
JMA XI 17 14 11 42.5±.1 31.96N±.01 130.90E±.01 113±2 **¶97xi2814**
EIDC XI 17 14 12 09.7 26.6N 131.1E 0 3.5b,4.3L
EIDC XI 17 20 33 49.5 **32.1N** **131.1E** **0** **3.6b**,3.5L **¶97xi2856**
ISC XI 18 04 49 07±1.2 **30.5N**±.13 **130.5E**±.22 **66** **5 0-2**
JMA XI 18 04 49 06.9±.1 30.52N±.00 130.49E±.01 66±1 2.5 **¶97xi2911**
ISC XI 18 11 09 53±1.3 **32.4N**±.21 **131.3E**±.26 **67** **4 0-1**
JMA XI 18 11 09 52.7±.1 32.41N±.00 131.30E±.01 67±1 1.6 **¶97xi2950**
ISC Poorly determined
ISC XI 19 07 38 23±4.7 **31.0N**±.13 **130.4E**±.23 **141**±52 **9 0-2**
JMA XI 19 07 38 24.3±.1 31.01N±.01 130.42E±.01 135±2 **¶97xi3161**
ISC XI 19 17 49 59±2.3 **32.7N**±.34 **131.6E**±.42 **88** **4 0-1**
JMA XI 19 17 49 58.6±.2 32.69N±.01 131.43E±.02 88±2 1.6 **¶97xi3277**
ISC Poorly determined
ISC XI 20 02 53 02±2.6 **33.46N**±.093 **131.9E**±.10 **75**±32 **13 0-2**
JMA XI 20 02 53 02.3±.1 33.47N±.01 131.92E±.01 71±1 2.2 **¶97xi3377**
ISC XI 20 15 24 57±3.2 **30.3N**±.23 **131.0E**±.31 **35** **5 0-1**
JMA XI 20 15 24 56.5±.4 30.29N±.02 130.97E±.03 35±3 3.0 **¶97xi3481**
ISC XI 20 15 48 29±2.0 **33.38N**±.084 **131.67E**±.087 **100**±23 **16 0-2**
JMA XI 20 15 48 29.3±.1 33.39N±.00 131.66E±.00 97±1 **¶97xi3486**
ISC XI 20 17 07 21±1.5 **33.43N**±.064 **131.87E**±.066 **70**±22 **17 0-1**
JMA XI 20 17 07 21.1±.0 33.43N±.00 131.86E±.00 68±1 2.1 **¶97xi3501**
ISC XI 20 19 51 56±3.8 **31.3N**±.47 **130.1E**±.64 **167** **4 0-2**
JMA XI 20 19 51 56.3±.4 31.13N±.03 130.24E±.03 167±3 **¶97xi3525**
ISC Poorly determined
ISC XI 21 04 59 19±1.4 **30.32N**±.074 **130.9E**±.13 **30**±11 **3.6b** **14 0-70**
JMA XI 21 04 59 18.6±.4 30.31N±.03 130.96E±.03 39±3 3.8 **¶97xi3588**
NEIC XI 21 04 59 22.6 30.38N 130.16E 76 3.6b
EIDC XI 21 04 59 24.1 30.4N 130.0E 70 3.3b
NEIC Less reliable solution.
JMA XI 22 10 29 23.2±.2 **31.06N**±.01 **130.42E**±.02 **132**±2 **¶97xi3855**
ISC XI 23 12 28 11±1.6 **32.78N**±.080 **131.73E**±.074 **68**±21 **17 0-2**
JMA XI 23 12 28 10.9±.1 32.80N±.00 131.69E±.01 66±2 2.2 **¶97xi4119**
ISC XI 23 15 23 47±2.0 **31.2N**±.24 **130.4E**±.49 **160** **5 0-1**
JMA XI 23 15 23 47.0±.2 31.16N±.01 130.37E±.02 160±2 **¶97xi4140**
ISC XI 24 00 04 24±2.0 **30.9N**±.26 **130.4E**±.30 **120** **5 1-2**
JMA XI 24 00 04 24.8±.2 30.99N±.01 130.52E±.01 120±2 **¶97xi4227**
ISC XI 24 15 59 08±1.1 **31.4N**±.12 **130.5E**±.24 **160** **11 0-2**
JMA XI 24 15 59 08.1±.2 31.35N±.01 130.47E±.01 160±2 **¶97xi4346**
ISC XI 24 16 29 53±5.4 **30.6N**±.36 **131.1E**±.48 **29** **4 0-1**
JMA XI 24 16 29 52.6±.3 30.57N±.02 131.17E±.02 29±2 2.8 **¶97xi4352**
ISC Poorly determined
ISC XI 24 18 59 02.3±.95 **31.98N**±.063 **130.36E**±.091 **5**±17 **7 0-1**
JMA XI 24 18 59 02.4±.0 31.98N±.00 130.35E±.00 3±1 3.0 **¶97xi4362**
ISC XI 24 23 19 28±1.6 **31.2N**±.18 **130.4E**±.32 **160** **7 0-2**
JMA XI 24 23 19 28.0±.3 31.16N±.02 130.32E±.02 160±3 **¶97xi4405**
ISC XI 25 02 29 51.3±.97 **32.02N**±.063 **130.12E**±.091 **7**±15 **7 0-1**
JMA XI 25 02 29 51.3±.0 32.00N±.00 130.08E±.00 9±2 3.2 **¶97xi4431**
JMA XI 25 15 56 41.0±.3 **30.13N**±.02 **131.30E**±.03 **34** **3.3** **¶97xi4544**
JMA XI 25 20 30 55.0±.2 **33.18N**±.01 **131.82E**±.01 **63**±2 **1.9** **¶97xi4570**
ISC XI 26 04 21 17±4.5 **33.1N**±.13 **131.5E**±.21 **121**±44 **13 0-2**
JMA XI 26 04 21 17.1±.1 33.15N±.01 131.47E±.01 118±1 **¶97xi4629**

ISC XI 27 21 49 44±2.3 **31.3N**±.22 **130.4E**±.56 **153** **5 0-2**
JMA XI 27 21 49 44.3±.2 31.27N±.01 130.43E±.03 153±2 **¶97xi4941**
ISC XI 28 02 11 38±6.7 **30.6N**±.39 **131.3E**±.59 **36** **4 0-1**
JMA XI 28 02 11 35.9±.4 30.51N±.02 131.48E±.03 36±4 3.0 **¶97xi4996**
ISC Poorly determined
ISC XI 28 09 38 03±3.3 **30.3N**±.23 **131.0E**±.31 **35** **5 0-1**
JMA XI 28 09 38 02.0±.3 30.27N±.02 130.99E±.02 35±3 3.5 **¶97xi5054**
ISC XI 28 11 27 09±3.6 **30.2N**±.21 **130.7E**±.23 **55**±45 **6 1-2**
JMA XI 28 11 27 08.0±.2 30.14N±.01 130.76E±.01 57±2 3.2 **¶97xi5073**
ISC XI 28 15 10 54±2.0 **31.94N**±.099 **131.9E**±.15 **20**±16 **9 0-1**
JMA XI 28 15 10 54.7±.2 31.93N±.01 131.93E±.01 23±3 3.3 **¶97xi5107**
ISC XI 29 09 39 11.6±.93 **32.01N**±.057 **130.59E**±.074 **8**±11 **10 0-1**
JMA XI 29 09 39 11.9±.0 32.00N±.00 130.59E±.00 9±1 3.7 **¶97xi5239**
JMA Nodal plane solution: N39, Score 95%. NP1:φS272°,δ35°,λ14°. NP2:φS170°,δ82°,λ125°.
Principle axes: T Plg43°,Azm112°; N Plg33°,Azm344°; P Plg29°,Azm233°.
ISC XI 29 12 28 48±1.6 **31.2N**±.19 **130.5E**±.40 **152** **6 0-2**
JMA XI 29 12 28 47.6±.2 31.23N±.01 130.48E±.02 152±2 **¶97xi5266**
ISC XI 30 02 37 41±2.2 **32.17N**±.081 **131.2E**±.13 **52**±36 **9 0-1**
JMA XI 30 02 37 40.5±.1 32.16N±.00 131.24E±.00 63±1 2.0 **¶97xi5355**
ISC XI 30 09 35 14.6±.91 **31.98N**±.058 **130.48E**±.080 **9**±14 **8 0-1**
JMA XI 30 09 35 14.8±.0 31.97N±.00 130.47E±.00 8±1 2.8 **¶97xi5392**
ISC XI 30 23 37 29.3±.98 **32.40N**±.052 **130.63E**±.068 **8**±12 **10 0-1**
JMA XI 30 23 37 29.7±.0 32.39N±.00 130.61E±.00 12±1 3.2 **¶97xi5481**
ISC XII 01 05 11 37±1.6 **32.15N**±.078 **130.1E**±.11 **14**±18 **6 0-1**
JMA XII 01 05 11 36.7±.0 32.12N±.00 130.05E±.00 14±1 2.8 **¶97xii0036**
ISC XII 04 04 05 14±1.8 **31.8N**±.13 **129.6E**±.14 **12** **7 0-1**
JMA XII 04 04 05 14.0±.0 31.79N±.00 129.65E±.01 12±1 2.8 **¶97xii0552**
ISC XII 04 04 43 14±3.3 **33.0N**±.11 **131.7E**±.18 **70**±37 **10 0-1**
JMA XII 04 04 43 14.4±.2 32.96N±.01 131.71E±.01 71±2 1.8 **¶97xii0557**
ISC XII 04 10 04 37.3±.90 **32.14N**±.055 **130.00E**±.097 **10** **7 0-1**
JMA XII 04 10 04 37.3±.0 32.10N±.00 129.95E±.01 10±2 3.0 **¶97xii0594**
ISC XII 04 18 06 32±2.1 **30.51N**±.081 **129.1E**±.23 **31** **8 1-2**
JMA XII 04 18 06 32.5±.3 30.49N±.01 129.16E±.03 31 3.6 **¶97xii0665**
ISC XII 04 18 14 04±5.0 **30.9N**±.17 **131.9E**±.43 **64**±43 **8 1-3**
JMA XII 04 18 14 02.7±.2 30.82N±.01 132.00E±.02 60±3 2.7 **¶97xii0667**
ISC XII 04 23 49 50±2.1 **31.72N**±.087 **132.0E**±.14 **18**±16 **11 1-2**
JMA XII 04 23 49 50.3±.2 31.74N±.01 131.94E±.01 27±2 3.1 **¶97xii0724**
ISC XII 06 19 47 41±4.8 **31.3N**±.12 **130.5E**±.25 **175**±48 **10 0-2**
JMA XII 06 19 47 42.5±.1 31.27N±.01 130.45E±.01 158±2 **¶97xii1509**
ISC XII 07 10 34 21±4.3 **30.0N**±.28 **130.8E**±.26 **62**±39 **7 1-3**
JMA XII 07 10 34 20.4±.3 29.97N±.02 130.81E±.02 57±3 2.9 **¶97xii1677**
ISC XII 07 13 39 26±1.2 **30.29N**±.042 **131.50E**±.049 **26**±8.4 **4.6b,4.2s** **92 1-157**
BJI XII 07 13 39 26.9 29.96N 131.54E 48 4.7b,4.5s **¶97xii1709**
NEIC XII 07 13 39 27.2 30.32N 131.47E 33 4.8b
JMA XII 07 13 39 27.7±.1 30.34N±.01 131.48E±.01 62±2 4.2
MOS XII 07 13 39 27.9 30.4N 131.6E 33 4.9b
EIDC XII 07 13 39 28.3±4.02 30.3N 131.5E 31±30.3 4.2b,4.6L
NEIC Felt I=II J1.
NEIC Felt I=I J1 in southeastern Kagoshima Prefecture.
EIDC Error ellipse is semi−major=17.5km semi−minor=12.0km azimuth=96
ISC XII 07 16 39 33±3.3 **33.5N**±.16 **131.9E**±.18 **78**±44 **9 1-2**
JMA XII 07 16 39 33.4±.1 33.49N±.01 131.92E±.01 72±2 2.1 **¶97xii1740**
ISC XII 07 18 59 30±1.6 **30.3N**±.24 **130.1E**±.39 **113** **4 0-2**
JMA XII 07 18 59 30.4±.2 30.29N±.01 130.10E±.01 113±2 **¶97xii1767**
ISC Poorly determined
ISC XII 07 19 07 56±3.5 **32.16N**±.098 **131.2E**±.14 **82**±41 **10 0-1**
JMA XII 07 19 07 56.1±.1 32.14N±.00 131.17E±.00 86±1 2.3 **¶97xii1770**
ISC XII 07 20 00 08±2.9 **32.3N**±.11 **131.2E**±.18 **59**±40 **6 0-1**
JMA XII 07 20 00 07.0±.1 32.29N±.00 131.23E±.01 65±1 1.4 **¶97xii1779**
ISC XII 08 03 39 49±2.1 **30.7N**±.15 **131.0E**±.26 **26**±13 **7 0-2**
JMA XII 08 03 39 47.8±.2 30.61N±.01 131.12E±.02 33±2 3.4 **¶97xii1854**
ISC XII 08 04 02 41±2.2 **31.4N**±.17 **130.5E**±.52 **155** **6 1-2**
JMA XII 08 04 02 40.6±.2 31.36N±.01 130.42E±.02 155±2 **¶97xii1859**
JMA XII 08 05 01 24.7±.2 **30.34N**±.01 **131.47E**±.02 **55**±3 **2.8** **¶97xii1869**
ISC XII 08 22 29 41.3±.87 **31.97N**±.059 **130.46E**±.079 **8**±13 **8 0-1**
JMA XII 08 22 29 41.6±.0 31.97N±.00 130.46E±.00 7±1 3.1 **¶97xii2030**
ISC XII 09 05 38 09±3.3 **31.3N**±.11 **130.4E**±.15 **155**±36 **13 0-2**
JMA XII 09 05 38 08.7±.1 31.24N±.01 130.46E±.01 155±1 **¶97xii2111**
ISC XII 09 06 02 29.6±.98 **31.99N**±.065 **131.1E**±.10 **7**±18 **7 0-1**
JMA XII 09 06 02 30.1±.0 31.98N±.00 131.14E±.00 10±1 3.2 **¶97xii2115**
ISC XII 09 15 25 48±6.3 **30.2N**±.30 **131.2E**±.44 **27**±23 **8 1-2**
JMA XII 09 15 25 47.6±.3 30.16N±.02 131.25E±.02 42±4 2.9 **¶97xii2193**
ISC XII 10 11 48 22±1.4 **32.2N**±.18 **131.3E**±.29 **61** **6 0-1**
JMA XII 10 11 48 22.6±.2 32.19N±.01 131.26E±.01 61±2 1.5 **¶97xii2342**
ISC Poorly determined
ISC XII 10 16 49 09±1.9 **32.19N**±.083 **131.2E**±.12 **49**±35 **10 0-1**
JMA XII 10 16 49 08.2±.1 32.18N±.00 131.21E±.01 62±2 1.7 **¶97xii2392**
JMA XII 10 22 03 13.7±.2 **31.44N**±.02 **130.34E**±.04 **152**±3 **¶97xii2434**
ISC XII 11 03 42 25±1.2 **31.9N**±.17 **131.2E**±.28 **62** **5 0-1**
JMA XII 11 03 42 25.2±.1 31.93N±.00 131.17E±.01 62±2 2.0 **¶97xii2480**
ISC Poorly determined
JMA XII 11 23 08 13.6±.1 **31.25N**±.00 **130.87E**±.00 **68**±1 **2.1** **¶97xii2653**
JMA XII 12 08 04 47.6±.2 **31.24N**±.01 **130.43E**±.02 **142**±2 **¶97xii2715**
ISC XII 12 18 14 24±1.4 **30.5N**±.18 **130.5E**±.25 **66** **4 0-1**
JMA XII 12 18 14 24.0±.2 30.47N±.01 130.52E±.01 66±2 1.8 **¶97xii2798**
ISC Poorly determined
JMA XII 12 18 14 35.0±.1 **30.48N**±.00 **130.50E**±.01 **64**±1 **1.3** **¶97xii2799**
ISC XII 13 03 36 25±3.8 **30.6N**±.23 **131.1E**±.37 **26**±14 **5 0-1**
JMA XII 13 03 36 24.7±.2 30.52N±.01 131.17E±.02 30±2 2.9 **¶97xii2873**
ISC Poorly determined
ISC XII 13 05 08 59±2.9 **30.5N**±.18 **130.9E**±.23 **9**±16 **5 0-1**
JMA XII 13 05 08 59.6±.2 30.49N±.01 130.94E±.02 9±3 2.8 **¶97xii2892**
ISC Poorly determined
JMA XII 13 06 37 50.8±.3 **31.34N**±.02 **130.71E**±.03 **109**±2 **¶97xii2902**
ISC XII 13 11 29 57±1.0 **31.08N**±.076 **131.0E**±.12 **26**±11 **8 0-73**
JMA XII 13 11 29 56.0±.1 31.04N±.00 131.12E±.01 43±1 3.3 **¶97xii2936**
JMA XII 13 12 09 38.0±.2 **30.88N**±.01 **130.24E**±.03 **146**±2 **¶97xii2940**
ISC XII 13 15 08 12.0±.94 **31.86N**±.064 **130.29E**±.081 **6**±14 **8 0-1**
JMA XII 13 15 08 12.4±.0 31.85N±.00 130.29E±.00 7±1 3.0 **¶97xii2961**
JMA Felt I=II J1
ISC XII 13 15 18 48.0±.93 **31.86N**±.064 **130.29E**±.081 **8**±14 **8 0-1**
JMA XII 13 15 18 48.4±.0 31.85N±.00 130.29E±.00 9±1 3.5 **¶97xii2963**
JMA Felt I=II J1
ISC XII 13 19 08 46±4.4 **31.1N**±.11 **130.3E**±.19 **165**±44 **13 0-2**
JMA XII 13 19 08 46.7±.1 31.15N±.01 130.35E±.01 156±2 **¶97xii2998**
ISC XII 13 23 37 00±2.4 **33.64N**±.076 **131.81E**±.087 **86**±28 **15 0-2**
JMA XII 13 23 37 00.9±.1 33.66N±.00 131.81E±.01 79±1 2.4 **¶97xii3038**
ISC XII 14 03 33 20±1.4 **31.6N**±.17 **131.1E**±.22 **61** **6 0-1**
JMA XII 14 03 33 20.4±.0 31.63N±.00 131.07E±.00 61±1 1.6 **¶97xii3077**
ISC Poorly determined

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**14 15 22 48**±5.0	**33.36N**±.099	**131.7E**±.17	**91**±54		**12**	**0-1**
JMA	XII	14 15 22 48.1±.1	33.35N±.01	131.70E±.01	89±1	1.8		¶97xii3163
ISC	**XII**	**14 16 02 20**±1.3	**31.9N**±.17	**131.1E**±.19	**64**		**4**	**0-1**
JMA	XII	14 16 02 19.9±.1	31.88N±.01	131.14E±.01	64±1	1.4		¶97xii3166
ISC	Poorly determined							
ISC	**XII**	**14 19 35 10**±2.9	**30.9N**±.11	**130.4E**±.15	**127**±33		**12**	**0-2**
JMA	XII	14 19 35 10.7±.1	30.92N±.00	130.41E±.01	124±1			¶97xii3186
ISC	**XII**	**15 11 22 41.1**±.94	**32.03N**±.058	**129.74E**±.097	**9**		**7**	**0-1**
JMA	XII	15 11 22 40.9±.0	31.98N±.00	129.72E±.00	9±2	3.1		¶97xii3278
ISC	**XII**	**15 12 57 41**±2.5	**32.9N**±.10	**131.5E**±.12	**87**±29		**12**	**0-1**
JMA	XII	15 12 57 42.0±.1	32.90N±.01	131.53E±.01	78±2	2.0		¶97xii3289
ISC	**XII**	**15 14 39 17**±1.8	**33.39N**±.080	**131.80E**±.075	**71**±26		**14**	**0-1**
JMA	XII	15 14 39 17.0±.0	33.39N±.00	131.78E±.00	68±1	2.1		¶97xii3298
ISC	**XII**	**15 15 31 23**±3.9	**32.2N**±.10	**131.2E**±.21	**54**±55		**7**	**0-1**
JMA	XII	15 15 31 22.6±.1	32.21N±.00	131.25E±.01	63±1	1.7		¶97xii3304
ISC	**XII**	**15 15 35 48**±1.4	**31.4N**±.21	**130.4E**±.28	**163**		**5**	**1-2**
JMA	XII	15 15 35 48.8±.2	31.42N±.01	130.42E±.02	163±2			¶97xii3305
ISC	**XII**	**15 18 18 56.7**±.96	**31.85N**±.068	**130.28E**±.083	**7**±15		**7**	**0-1**
JMA	XII	15 18 18 57.0±.0	31.84N±.00	130.29E±.00	8±2	2.8		¶97xii3318
ISC	**XII**	**16 06 03 57.5**±.78	**30.99N**±.072	**130.1E**±.13	**216**±7.5	3.4b	**23**	**1-70**
EIDC	XII	16 06 03 19.2±4.07	28.3N	130.1E	0	3.7b,3.7L		¶97xii3394
JMA	XII	16 06 03 58.9±.2	31.01N±.01	130.07E±.02	204±2			
EIDC	Error ellipse is semi-major=88.2km semi-minor=64.6km azimuth=7							
ISC	**XII**	**16 21 06 15.4**±.95	**31.97N**±.059	**130.45E**±.079	**8**±12		**8**	**0-1**
JMA	XII	16 21 06 15.8±.0	31.97N±.00	130.45E±.00	10±1	2.9		¶97xii3503
ISC	**XII**	**17 10 43 13.1**±.78	**31.96N**±.056	**130.39E**±.071	**9**		**8**	**0-1**
JMA	XII	17 10 43 13.4±.0	31.96N±.00	130.40E±.00	9±1	3.0		¶97xii3592
ISC	**XII**	**17 16 28 38.1**±.94	**31.85N**±.064	**130.28E**±.081	**7**±14		**8**	**0-1**
JMA	XII	17 16 28 38.5±.0	31.85N±.00	130.29E±.00	7±1	3.1		¶97xii3630
ISC	**XII**	**18 04 19 14.1**±.95	**32.22N**±.054	**130.42E**±.065	**9**±11		**11**	**0-1**
JMA	XII	18 04 19 14.3±.0	32.20N±.00	130.43E±.00	10±1	2.8		¶97xii3707
ISC	**XII**	**18 22 39 38.3**±.92	**31.86N**±.064	**130.29E**±.081	**7**±14		**8**	**0-1**
JMA	XII	18 22 39 38.5±.0	31.85N±.00	130.29E±.00	7±1	3.2		¶97xii3845
JMA	Felt I=II J1							
ISC	**XII**	**18 22 44 56**±4.1	**33.5N**±.13	**131.7E**±.23	**111**±37		**11**	**0-2**
JMA	XII	18 22 44 55.6±.1	33.55N±.01	131.60E±.01	115±2			¶97xii3846
ISC	**XII**	**19 15 51 38.6**±.83	**31.2N**±.12	**130.4E**±.27	**159**		**8**	**0-1**
JMA	XII	19 15 51 38.8±.2	31.25N±.01	130.40E±.01	159±2			¶97xii3990
ISC	**XII**	**20 00 38 52**±3.9	**30.6N**±.15	**130.2E**±.19	**112**±42		**9**	**0-2**
JMA	XII	20 00 38 52.5±.1	30.61N±.01	130.31E±.01	104±1			¶97xii4056
ISC	**XII**	**20 10 54 25**±3.2	**30.9N**±.11	**130.5E**±.16	**105**±38		**10**	**0-2**
JMA	XII	20 10 54 25.8±.1	30.88N±.01	130.55E±.01	101±1			¶97xii4108
ISC	**XII**	**20 18 08 43**±2.1	**31.38N**±.082	**130.9E**±.13	**70**±29		**10**	**0-2**
JMA	XII	20 18 08 43.2±.0	31.37N±.00	130.89E±.00	68±1	3.0		¶97xii4144
ISC	**XII**	**21 22 55 00**±1.5	**32.11N**±.085	**131.8E**±.10	**28**±11		**14**	**0-2**
JMA	XII	21 22 55 00.0±.1	32.10N±.01	131.84E±.01	36±2	3.1		¶97xii4317
ISC	**XII**	**22 05 15 08**±1.9	**30.6N**±.16	**130.9E**±.18	**7**±17		**5**	**0-1**
JMA	XII	22 05 15 08.3±.1	30.54N±.01	130.89E±.01	5±2	3.1		¶97xii4357
ISC	Poorly determined							
ISC	**XII**	**22 08 05 15.6**±.61	**32.94N**±.054	**130.82E**±.057	**13**		**11**	**0-1**
JMA	XII	22 08 05 15.8±.0	32.93N±.00	130.81E±.00	13±1	3.1		¶97xii4383
ISC	**XII**	**23 05 16 13**±4.8	**31.98N**±.092	**132.0E**±.11	**14**±42		**10**	**0-1**
JMA	XII	23 05 16 13.8±.2	31.99N±.01	131.93E±.01	22±3	3.3		¶97xii4545
ISC	**XII**	**23 13 31 43**±3.8	**31.6N**±.12	**131.1E**±.19	**59**±47		**6**	**0-1**
JMA	XII	23 13 31 42.6±.0	31.63N±.00	131.07E±.00	63±1	1.7		¶97xii4608
ISC	Poorly determined							
ISC	**XII**	**23 22 22 27**±3.3	**33.5N**±.11	**131.8E**±.11	**82**±47		**10**	**1-2**
JMA	XII	23 22 22 27.7±.1	33.48N±.01	131.82E±.01	76±2	2.1		¶97xii4660
ISC	**XII**	**24 15 17 14.8**±.90	**31.88N**±.052	**130.29E**±.067	**2**±9.9		**11**	**0-19**
JMA	XII	24 15 17 15.1±.0	31.84N±.00	130.29E±.00	7±1	3.9		¶97xii4780
EIDC	XII	24 15 17 17.5±2.39	31.9N	130.0E	0	3.6L		
JMA	Felt I=III J1							
EIDC	Error ellipse is semi-major=32.4km semi-minor=23.3km azimuth=89							
ISC	**XII**	**25 09 58 10.0**±.97	**31.85N**±.068	**130.28E**±.083	**6**±16		**7**	**0-1**
JMA	XII	25 09 58 10.3±.0	31.84N±.00	130.29E±.00	7±1	3.4		¶97xii4905
JMA	Felt I=III J1							
ISC	**XII**	**25 12 32 22**±5.7	**31.1N**±.15	**130.0E**±.28	**245**±53		**13**	**1-3**
JMA	XII	25 12 32 25.1±.2	31.15N±.01	130.04E±.02	218±2			¶97xii4928
ISC	**XII**	**26 01 56 02**±1.0	**31.9N**±.17	**130.9E**±.14	**92**		**6**	**0-1**
JMA	XII	26 01 56 02.1±.1	31.89N±.00	130.91E±.00	92±1			¶97xii5025
ISC	**XII**	**26 13 12 09.8**±.94	**31.85N**±.064	**130.28E**±.081	**7**±14		**8**	**0-1**
JMA	XII	26 13 12 10.1±.0	31.83N±.00	130.29E±.00	8±1	2.9		¶97xii5127
JMA	Felt I=II J1							
ISC	**XII**	**26 15 33 07.8**±.49	**31.08N**±.064	**130.4E**±.12	**174**±4.5	**3.3b**	**27**	**0-82**
JMA	XII	26 15 33 09.5±.1	31.12N±.00	130.36E±.01	158±1	3.2		¶97xii5165
NEIC	XII	26 15 33 10.2	31.14N	130.41E	199			
EIDC	XII	26 15 33 11.6±4.06	31.2N	130.3E	192±37.8	3.3b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi-major=36.9km semi-minor=18.8km azimuth=84							
ISC	**XII**	**28 12 48 46**±2.1	**33.29N**±.089	**131.90E**±.079	**71**±27		**13**	**0-1**
JMA	XII	28 12 48 46.8±.1	33.30N±.00	131.89E±.00	66±1	1.9		¶97xii5455
ISC	**XII**	**29 19 04 28**±10	**30.4N**±.53	**131.2E**±.64	**23**±28		**6**	**0-2**
JMA	XII	29 19 04 28.3±.3	30.42N±.02	131.25E±.02	33±3	3.0		¶97xii5621
ISC	Poorly determined							
ISC	**XII**	**30 04 28 46.5**±.93	**31.3N**±.16	**130.4E**±.24	**151**		**7**	**0-1**
JMA	XII	30 04 28 46.7±.2	31.26N±.01	130.38E±.01	151±2			¶97xii5680
ISC	**XII**	**30 07 37 28**±1.6	**31.99N**±.073	**131.8E**±.11	**30**±14		**13**	**0-2**
JMA	XII	30 07 37 28.2±.1	32.00N±.01	131.82E±.01	42±2	3.2		¶97xii5703
ISC	**XII**	**30 09 15 38.3**±.97	**31.97N**±.059	**130.51E**±.080	**8**±12		**8**	**0-1**
JMA	XII	30 09 15 38.6±.0	31.97N±.00	130.51E±.00	8±1	3.1		¶97xii5712
JMA	**XII**	**31 02 54 27.1**±.5	**31.06N**±.05	**130.60E**±.03	**67**	**1.6**		¶97xii5826
ISC	**XII**	**31 07 13 17**±1.3	**31.8N**±.13	**130.5E**±.36	**151**		**7**	**0-1**
JMA	XII	31 07 13 16.7±.2	31.81N±.01	130.57E±.02	151±2			¶97xii5850
ISC	**XII**	**31 14 10 09.5**±.98	**31.83N**±.069	**130.28E**±.084	**6**±16		**7**	**0-1**
JMA	XII	31 14 10 09.7±.0	31.82N±.00	130.29E±.00	6±1	2.8		¶97xii5913
JMA	Felt I=II J1							
ISC	**XII**	**31 15 23 29**±3.9	**31.2N**±.11	**130.4E**±.15	**170**±40		**16**	**0-2**
JMA	XII	31 15 23 29.7±.1	31.19N±.01	130.39E±.01	162±1			¶97xii5918
ISC	**XII**	**31 16 06 47**±2.2	**33.17N**±.076	**131.51E**±.092	**112**±25		**17**	**0-2**
JMA	XII	31 16 06 47.6±.1	33.17N±.00	131.49E±.01	105±1			¶97xii5922
ISC	**XII**	**31 18 06 23**±5.1	**30.8N**±.14	**130.2E**±.21	**150**±54		**11**	**0-2**
JMA	XII	31 18 06 23.1±.1	30.84N±.01	130.27E±.01	151±2			¶97xii5938

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ISC	**VII**	**01 10 11 33.2**±.69	**33.16N**±.046	**132.32E**±.040	**1**±7.2		**24**	**0-3**
JMA	VII	01 10 11 33.7±.0	33.13N±.00	132.33E±.00	13±2	3.1		¶97vii0065
ISC	**VII**	**05 05 33 41**±9.0	**33.2N**±.33	**132.0E**±.97	**61**		**6**	**0-1**
JMA	VII	05 05 33 40.8±.2	33.17N±.01	132.05E±.02	61±3			¶97vii0683
ISC	Poorly determined							
ISC	**VII**	**07 01 36 23.9**±.90	**33.84N**±.090	**134.98E**±.051	**4**±11		**16**	**0-2**
JMA	VII	07 01 36 24.4±.1	33.83N±.01	134.97E±.00	13±3	2.8		¶97vii0966
ISC	**VII**	**08 03 22 33.1**±.54	**33.21N**±.053	**132.19E**±.046	**13**		**17**	**0-2**
JMA	VII	08 03 22 33.3±.1	33.20N±.01	132.19E±.00	13±3	2.8		¶97vii1135
ISC	**VII**	**08 23 39 13.5**±.63	**32.01N**±.059	**132.12E**±.047	**33**		**41**	**1-5**
JMA	VII	08 23 39 13.1±.2	32.04N±.01	132.13E±.01	33±4	3.5		¶97vii1253
ISC	**VII**	**10 08 10 05.8**±.51	**33.86N**±.055	**135.00E**±.038	**42**±19		**45**	**0-4**
JMA	VII	10 08 10 04.9±.1	33.86N±.01	135.01E±.01	55±2	3.1		¶97vii1475
ISC	**VII**	**12 06 32 51.3**±.71	**33.26N**±.068	**134.56E**±.050	**49**±27		**43**	**1-5**
JMA	VII	12 06 32 50.9±.1	33.27N±.01	134.56E±.01	49±3	3.3		¶97vii1781
ISC	**VII**	**12 16 06 20.7**±.49	**33.84N**±.045	**132.42E**±.050	**35**±18		**25**	**0-3**
JMA	VII	12 16 06 20.2±.0	33.86N±.00	132.44E±.00	45±1	2.8		¶97vii1834
ISC	**VII**	**13 05 45 23.0**±.64	**33.37N**±.056	**132.39E**±.056	**34**±19		**21**	**0-2**
JMA	VII	13 05 45 22.6±.1	33.38N±.01	132.39E±.01	42±2	3.0		¶97vii1930
ISC	**VII**	**13 09 00 24.3**±.51	**33.39N**±.054	**132.40E**±.055	**30**±7.2		**21**	**0-2**
JMA	VII	13 09 00 24.2±.0	33.39N±.01	132.40E±.01	40±2	2.8		¶97vii1953
ISC	**VII**	**13 22 48 02.7**±.72	**32.93N**±.063	**132.52E**±.056	**15**		**20**	**0-2**
JMA	VII	13 22 48 02.7±.0	32.94N±.00	132.51E±.00	15±1	2.9		¶97vii2031
ISC	**VII**	**13 23 51 26.7**±.99	**32.70N**±.097	**132.32E**±.071	**41**±15	3.6b	**18**	**0-71**
JMA	VII	13 23 51 26.8±.1	32.75N±.01	132.32E±.01	33±3	2.8		¶97vii2043
ISC	**VII**	**14 13 32 52**±1.1	**33.32N**±.098	**134.75E**±.072	**36**±59		**19**	**1-3**
JMA	VII	14 13 32 52.0±.1	33.34N±.01	134.73E±.01	45±3	2.8		¶97vii2140
ISC	**VII**	**15 20 06 36.3**±.87	**33.34N**±.084	**134.59E**±.055	**48**±26		**30**	**0-3**
JMA	VII	15 20 06 36.6±.2	33.41N±.02	134.56E±.01	49±3	2.8		¶97vii2344
ISC	**VII**	**26 13 16 28.1**±.84	**33.54N**±.063	**132.07E**±.054	**76**±14		**27**	**0-3**
JMA	VII	26 13 16 28.4±.1	33.52N±.01	132.07E±.01	71±2			¶97vii3970
ISC	**VII**	**27 00 01 53.4**±.66	**32.86N**±.063	**132.12E**±.053	**24**±8.1		**19**	**0-2**
JMA	VII	27 00 01 53.3±.1	32.86N±.01	132.14E±.01	39±2	2.8		¶97vii4033
ISC	**VII**	**30 19 45 35.4**±.46	**33.49N**±.048	**132.28E**±.044	**27**±6.5		**23**	**0-2**
JMA	VII	30 19 45 35.2±.0	33.50N±.01	132.29E±.01	39±2	2.8		¶97vii4628
ISC	**VIII**	**05 08 26 57.4**±.88	**33.89N**±.072	**134.62E**±.044	**4**±9.3		**15**	**0-2**
JMA	VIII	05 08 26 58.0±.1	33.85N±.01	134.60E±.01	10±2	2.9		¶97viii0639
ISC	**VIII**	**06 09 45 15**±1.1	**33.4N**±.12	**134.96E**±.062	**38**±48		**19**	**1-2**
JMA	VIII	06 09 45 15.0±.2	33.43N±.02	134.95E±.01	44±4	2.8		¶97viii0781
ISC	**VIII**	**09 14 41 04.5**±.44	**33.65N**±.044	**132.50E**±.037	**52**±13		**42**	**0-4**
JMA	VIII	09 14 41 04.4±.0	33.64N±.00	132.49E±.00	52±1	3.5		¶97viii1270
ISC	**VIII**	**09 14 59 45.7**±.47	**33.65N**±.044	**132.48E**±.038	**51**±12		**38**	**0-4**
JMA	VIII	09 14 59 45.6±.0	33.64N±.00	132.48E±.01	51±1	3.3		¶97viii1272
ISC	**VIII**	**10 15 53 01**±1.7	**33.31N**±.076	**132.02E**±.065	**61**±25		**16**	**0-2**
JMA	VIII	10 15 53 00.6±.1	33.31N±.01	132.02E±.01	60±2	2.3		¶97viii1419
ISC	**VIII**	**11 17 48 18.0**±.75	**33.13N**±.046	**132.07E**±.042	**9**±7.2		**25**	**0-3**
JMA	VIII	11 17 48 18.2±.0	33.11N±.01	132.08E±.01	21±2	2.8		¶97viii1599
ISC	**VIII**	**13 01 40 37**±1.0	**33.25N**±.097	**134.84E**±.057	**48**		**28**	**1-3**
JMA	VIII	13 01 40 36.6±.2	33.30N±.02	134.81E±.01	48±4	2.9		¶97viii1837
ISC	**VIII**	**14 01 44 51.7**±.34	**33.40N**±.046	**132.99E**±.033	**33**±15		**53**	**0-5**
JMA	VIII	14 01 44 51.1±.1	33.35N±.01	132.99E±.01	41±2	3.7		¶97viii1990
JMA	Felt I=II J1							
ISC	**VIII**	**15 01 29 06.8**±.31	**33.49N**±.043	**132.35E**±.034	**59**±7.6	3.7b	**61**	**0-74**
JMA	VIII	15 01 29 06.9±.0	33.50N±.01	132.35E±.01	52±2	3.9		¶97viii2141
JMA	Felt I=II J1							
ISC	**VIII**	**16 21 42 57.1**±.86	**32.43N**±.057	**132.10E**±.044	**22**±8.5		**39**	**1-4**
JMA	VIII	16 21 42 57.5±.1	32.46N±.01	132.09E±.01	32±3	3.4		¶97viii2422
ISC	**VIII**	**17 22 11 08.1**±.44	**33.47N**±.051	**134.54E**±.040	**50**		**53**	**0-5**
JMA	VIII	17 22 11 07.6±.1	33.48N±.01	134.57E±.01	50±2	3.3		¶97viii2591
ISC	**VIII**	**27 06 03 01.2**±.47	**33.45N**±.047	**132.31E**±.043	**27**±6.2		**24**	**0-3**
JMA	VIII	27 06 03 01.0±.1	33.46N±.01	132.34E±.01	39±2	2.9		¶97viii3946
ISC	**VIII**	**30 13 26 47.3**±.41	**33.85N**±.042	**133.53E**±.037	**6**		**25**	**0-2**
JMA	VIII	30 13 26 47.2±.1	33.84N±.00	133.49E±.00	6±2	2.9		¶97viii4487
ISC	**IX**	**03 16 08 39.9**±.76	**33.72N**±.090	**134.94E**±.051	**14**		**16**	**0-2**
JMA	IX	03 16 08 39.8±.1	33.74N±.01	134.92E±.00	14±2	2.8		¶97ix0447
ISC	**IX**	**04 00 57 48.9**±.56	**33.66N**±.051	**132.41E**±.048	**38**±19		**26**	**0-3**
JMA	IX	04 00 57 48.7±.0	33.66N±.01	132.41E±.01	43±2	2.9		¶97ix0520
ISC	**IX**	**05 17 08 56**±1.4	**33.48N**±.072	**132.06E**±.066	**66**±20		**18**	**0-2**
JMA	IX	05 17 08 55.8±.1	33.48N±.00	132.05E±.00	62±2			¶97ix0772
ISC	**IX**	**13 22 37 13.5**±.55	**33.58N**±.051	**132.64E**±.052	**34**±19		**23**	**0-2**
JMA	IX	13 22 37 13.1±.0	33.60N±.01	132.65E±.01	41±1	2.9		¶97ix2044
ISC	**IX**	**15 19 08 56.7**±.59	**32.86N**±.059	**132.14E**±.042	**39**±27		**37**	**0-4**
JMA	IX	15 19 08 56.8±.1	32.92N±.01	132.10E±.01	45±3	3.4		¶97ix2273
ISC	**IX**	**15 23 40 43.4**±.72	**32.83N**±.064	**132.08E**±.051	**30**±7.4		**23**	**0-3**
JMA	IX	15 23 40 43.4±.1	32.83N±.01	132.07E±.01	41±2	3.0		¶97ix2297
ISC	**IX**	**16 03 53 10.6**±.70	**33.50N**±.055	**132.23E**±.045	**62**±13		**29**	**0-3**
JMA	IX	16 03 53 10.8±.1	33.51N±.01	132.21E±.01	56±2	3.4		¶97ix2327
ISC	**IX**	**16 09 47 59.4**±.40	**33.64N**±.050	**132.43E**±.044	**38**±9.4		**28**	**0-81**
JMA	IX	16 09 47 59.1±.0	33.64N±.00	132.45E±.00	43±1	3.1		¶97ix2366
ISC	**IX**	**18 00 53 11.1**±.37	**33.72N**±.045	**134.66E**±.035	**41**±16		**56**	**0-5**
JMA	IX	18 00 53 10.6±.1	33.73N±.01	134.66E±.01	48±2	3.4		¶97ix2587
ISC	**IX**	**19 07 36 32.6**±.53	**33.42N**±.047	**132.82E**±.046	**17**±8.6		**22**	**0-3**
JMA	IX	19 07 36 32.1±.0	33.38N±.00	132.80E±.00	37±1	2.8		¶97ix2758
ISC	**IX**	**20 18 24 03.0**±.49	**33.06N**±.048	**132.10E**±.036	**52**±14		**44**	**0-4**
JMA	IX	20 18 24 03.1±.0	33.11N±.01	132.09E±.00	49±2	3.3		¶97ix2984
ISC	**IX**	**24 12 00 18**±2.9	**33.5N**±.10	**132.0E**±.11	**70**±36		**11**	**0-1**
JMA	IX	24 12 00 18.2±.2	33.51N±.01	132.03E±.01	66±2			¶97ix3577
ISC	**IX**	**25 04 12 58.9**±.94	**32.71N**±.085	**132.38E**±.061	**35**±40		**20**	**0-3**
JMA	IX	25 04 12 58.8±.1	32.73N±.01	132.36E±.01	41±3	3.1		¶97ix3673
ISC	**IX**	**26 00 28 12**±1.3	**33.8N**±.11	**134.96E**±.065	**49**±26		**20**	**0-2**
JMA	IX	26 00 28 11.8±.2	33.81N±.01	134.96E±.01	52±3	2.8		¶97ix3813
ISC	**IX**	**28 17 28 51.7**±.98	**32.08N**±.053	**132.16E**±.053	**20**±10		**34**	**1-4**
JMA	IX	28 17 28 52.0±.2	32.10N±.01	132.17E±.01	29±4	3.1		¶97ix4715
ISC	**X**	**02 05 56 12**±1.2	**33.42N**±.058	**132.11E**±.059	**61**±19		**19**	**0-2**
JMA	X	02 05 56 11.8±.1	33.42N±.01	132.10E±.00	58±2	3.4		¶97x0219
ISC	**X**	**11 08 38 04.6**±.87	**33.56N**±.055	**132.36E**±.056	**50**±18		**19**	**0-2**
JMA	X	11 08 38 04.5±.0	33.55N±.00	132.36E±.00	51±1	3.7		¶97x1866
ISC	**X**	**17 04 34 36**±1.3	**33.4N**±.14	**134.29E**±.089	**32**±8.9		**8**	**0-1**
JMA	X	17 04 34 35.7±.0	33.37N±.01	134.28E±.00	35±1	2.8		¶97x2928
ISC	**X**	**18 21 56 06**±1.5	**33.8N**±.11	**134.76E**±.068	**46**±31		**11**	**0-1**
JMA	X	18 21 56 05.5±.0	33.84N±.00	134.77E±.00	50±1	3.2		¶97x3241
ISC	**X**	**23 01 00 18.5**±.91	**33.8N**±.10	**134.98E**±.072	**8**±16		**8**	**0-1**
JMA	X	23 01 00 19.0±.0	33.83N±.00	134.97E±.00	13±1	3.2		¶97x3904
ISC	**X**	**24 00 38 44**±1.0	**32.48N**±.081	**132.32E**±.082	**20**		**13**	**1-1**
JMA	X	24 00 38 44.4±.1	32.46N±.01	132.32E±.01	20±3	3.9		¶97x4091
ISC	**X**	**25 06 56 22.7**±.99	**33.50N**±.056	**132.10E**±.058	**49**±23		**19**	**0-2**
JMA	X	25 06 56 22.5±.0	33.50N±.01	132.09E±.00	54±1	2.8		¶97x4292
ISC	**X**	**27 06 32 13.5**±.79	**32.69N**±.072	**132.30E**±.075	**36**		**16**	**0-2**
JMA	X	27 06 32 13.3±.0	32.70N±.00	132.30E±.01	36±2	3.1		¶97x4580
ISC	**X**	**29 03 27 02.7**±.59	**33.23N**±.067	**132.39E**±.067	**30**±8.2		**14**	**0-1**
JMA	X	29 03 27 02.6±.0	33.22N±.00	132.40E±.00	37±1	3.2		¶97x4846
ISC	**X**	**29 14 21 16**±1.1	**33.8N**±.10	**134.97E**±.062	**10**±13		**8**	**0-1**
JMA	X	29 14 21 16.7±.0	33.82N±.00	134.95E±.00	12±1	2.9		¶97x4921

ISC	**XI**	**03 00 47 09.8**±.74	**33.77N**±.052	**132.36E**±.054	**48**±18			**20**	**0-6**
JMA	XI	03 00 47 09.5±.0	33.76N±.00	132.36E±.00	51±1	3.5		**¶97xi0367**	
ISC	**XI**	**03 11 20 14**±1.5	**33.66N**±.069	**132.06E**±.068	**66**±22			**16**	**0-1**
JMA	XI	03 11 20 14.5±.0	33.67N±.00	132.06E±.00	62±1	2.3		**¶97xi0455**	
ISC	**XI**	**06 00 25 56**±2.1	**32.3N**±.14	**132.4E**±.13	**18**±19			**10**	**1-2**
JMA	XI	06 00 25 56.3±.1	32.26N±.00	132.39E±.00	24±2	3.1		**¶97xi0888**	
ISC	**XI**	**10 10 26 32.5**±.63	**33.17N**±.069	**132.50E**±.078	**32**±8.3			**14**	**0-1**
JMA	XI	10 10 26 32.3±.0	33.17N±.00	132.50E±.00	38±1	3.4		**¶97xi1598**	
ISC	**XI**	**13 20 09 35.4**±.74	**33.44N**±.088	**133.30E**±.069	**30**±11			**11**	**0-1**
JMA	XI	13 20 09 35.5±.0	33.44N±.00	133.30E±.00	35±1	2.8		**¶97xi2189**	
ISC	**XI**	**14 07 19 03.5**±.92	**33.95N**±.071	**134.23E**±.082	**9**±14			**7**	**0-1**
JMA	XI	14 07 19 03.8±.0	33.95N±.00	134.24E±.00	11±1	2.8		**¶97xi2256**	
ISC	**XI**	**14 14 22 56.7**±.74	**33.38N**±.064	**132.40E**±.067	**34**±21			**14**	**0-1**
JMA	XI	14 14 22 56.4±.0	33.37N±.00	132.40E±.00	41±1	3.1		**¶97xi2298**	
ISC	**XI**	**18 01 16 48**±1.9	**33.3N**±.17	**134.64E**±.087	**41**±50			**9**	**0-1**
JMA	XI	18 01 16 48.0±.1	33.31N±.01	134.64E±.01	45±2	3.8		**¶97xi2890**	
JMA	Nodal plane solution: N39, Score 97%. NP1:ϕ_S213°,δ46°,λ−1°. NP2:ϕ_S306°,δ89°,λ−136°. Principle axes: T Plg28°,Azm70°; N Plg46°,Azm306°; P Plg30°,Azm178°.									
ISC	**XI**	**21 05 06 11**±1.1	**33.8N**±.12	**135.00E**±.064	**11**±14			**8**	**0-1**
JMA	XI	21 05 06 11.8±.0	33.84N±.00	134.99E±.00	12±1	3.0		**¶97xi3591**	
ISC	**XI**	**21 18 10 20**±1.1	**32.42N**±.079	**132.16E**±.091	**18**±15			**12**	**1-1**
JMA	XI	21 18 10 20.3±.1	32.40N±.01	132.16E±.01	25±3	3.1		**¶97xi3705**	
ISC	**XI**	**24 02 33 49.4**±.74	**33.80N**±.052	**132.85E**±.066	**40**±21			**17**	**0-1**
JMA	XI	24 02 33 49.1±.0	33.80N±.00	132.84E±.00	45±1	2.8		**¶97xi4252**	
ISC	**XI**	**26 12 56 26**±1.0	**33.78N**±.083	**134.24E**±.069	**42**±21			**12**	**0-1**
JMA	XI	26 12 56 26.1±.0	33.78N±.01	134.24E±.00	46±1	3.5		**¶97xi4686**	
ISC	**XII**	**02 22 16 27.3**±.61	**33.27N**±.070	**132.66E**±.068	**32**±7.0			**13**	**0-1**
JMA	XII	02 22 16 27.2±.0	33.27N±.00	132.66E±.00	37±1	2.9		**¶97xii0322**	
ISC	**XII**	**06 17 54 25.8**±.46	**33.53N**±.058	**132.08E**±.060	**61**			**19**	**0-2**
JMA	XII	06 17 54 25.8±.0	33.52N±.00	132.07E±.00	61±1	2.6		**¶97xii1484**	
ISC	**XII**	**07 14 07 18**±1.2	**33.6N**±.12	**134.32E**±.085	**39**±21			**8**	**0-1**
JMA	XII	07 14 07 17.8±.1	33.56N±.01	134.32E±.00	42±1	2.8		**¶97xii1713**	
ISC	**XII**	**12 00 32 59.3**±.98	**32.84N**±.086	**132.71E**±.079	**28**±7.7			**14**	**0-1**
JMA	XII	12 00 32 59.1±.0	32.83N±.01	132.72E±.00	31±1	3.4		**¶97xii2670**	
ISC	**XII**	**12 15 53 34**±1.6	**33.3N**±.16	**134.76E**±.077	**20**±16			**8**	**1-1**
JMA	XII	12 15 53 34.5±.1	33.33N±.01	134.75E±.00	27±2	2.9		**¶97xii2775**	
ISC	**XII**	**13 10 32 48.1**±.77	**33.44N**±.060	**132.44E**±.066	**38**±19			**15**	**0-1**
JMA	XII	13 10 32 47.9±.0	33.44N±.00	132.43E±.00	43±1	2.8		**¶97xii2933**	
ISC	**XII**	**13 18 15 58**±2.0	**33.3N**±.21	**134.75E**±.081	**23**±18			**7**	**1-1**
JMA	XII	13 18 15 58.2±.1	33.35N±.01	134.76E±.01	27±3	3.2		**¶97xii2992**	
ISC	**XII**	**13 18 28 57**±2.1	**33.3N**±.21	**134.75E**±.082	**23**±18			**7**	**1-1**
JMA	XII	13 18 28 57.6±.1	33.33N±.01	134.76E±.01	28±2	3.1		**¶97xii2995**	
ISC	**XII**	**22 18 35 23.5**±.70	**33.58N**±.061	**132.49E**±.056	**40**±18			**17**	**0-1**
JMA	XII	22 18 35 23.4±.0	33.57N±.00	132.49E±.00	42±1	2.8		**¶97xii4467**	
ISC	**XII**	**24 14 11 33.2**±.87	**33.60N**±.095	**134.12E**±.090	**28**			**7**	**0-1**
JMA	XII	24 14 11 33.8±.0	33.58N±.00	134.10E±.00	28±1	2.8		**¶97xii4766**	
ISC	**XII**	**26 04 26 22**±1.0	**33.19N**±.073	**132.25E**±.065	**50**±20			**15**	**0-6**
JMA	XII	26 04 26 22.2±.0	33.18N±.00	132.24E±.00	47±1	3.9		**¶97xii5044**	
JMA	Nodal plane solution: N46, Score 96%. NP1:ϕ_S334°,δ40°,λ161°. NP2:ϕ_S78°,δ78°,λ52°. Principle axes: T Plg44°,Azm311°; N Plg37°,Azm88°; P Plg23°,Azm197°.									

(237) South-east of Shikoku.

ISC	**VII**	**02 10 04 43**±4.4	**30.7N**±.20	**132.3E**±.39	**54**			**10**	**1-3**
JMA	VII	02 10 04 42.9±.1	30.72N±.01	132.25E±.01	54±3	3.1		**¶97vii0220**	
ISC	**VII**	**06 05 32 17**±11	**30.5N**±.58	**132.2E**±.76	**54**			**5**	**1-2**
JMA	VII	06 05 32 17.7±.4	30.58N±.02	132.16E±.02	54	3.0		**¶97vii0842**	
ISC	**VII**	**06 16 29 15**±3.0	**31.9N**±.24	**135.9E**±.18	**28**			**9**	**2-71**
JMA	VII	06 16 29 20.0±.3	32.27N±.02	135.66E±.02	28±5	2.9		**¶97vii0906**	
ISC	**VII**	**06 16 47 14**±6.6	**32.0N**±.47	**135.8E**±.23	**44**			**17**	**1-3**
JMA	VII	06 16 47 17.1±.3	32.30N±.02	135.71E±.02	44	3.1		**¶97vii0908**	
ISC	**VII**	**15 09 21 28**±6.9	**30.4N**±.28	**132.5E**±.56	**35**			**7**	**1-2**
JMA	VII	15 09 21 26.3±.4	30.40N±.02	132.54E±.03	35	2.8		**¶97vii2281**	
ISC	**VII**	**20 23 46 39**±3.0	**32.9N**±.21	**136.0E**±.19	**49**			**18**	**1-3**
JMA	VII	20 23 46 39.4±.3	33.00N±.02	135.97E±.02	49±4	2.8		**¶97vii3160**	
ISC	**VII**	**21 15 06 27**±3.9	**29.5N**±.20	**132.2E**±.36	**87**			**13**	**2-74**
JMA	VII	21 15 06 27.1±.3	29.54N±.02	132.23E±.03	87			**¶97vii3253**	
ISC	**VII**	**23 15 38 56**±1.8	**30.8N**±.14	**132.3E**±.12	**54**			**21**	**1-4**
JMA	VII	23 15 38 55.9±.2	30.85N±.01	132.29E±.01	54	3.0		**¶97vii3551**	
ISC	**VII**	**27 18 06 57**±3.2	**32.1N**±.22	**135.7E**±.17	**44**			**27**	**1-4**
JMA	VII	27 18 06 59.3±.3	32.28N±.02	135.53E±.02	44	3.1		**¶97vii4147**	
JMA	**VII**	**28 04 02 21.5**±.5	**32.35N**±.03	**135.57E**±.03	**36**	**2.9**		**¶97vii4205**	
ISC	**VIII**	**03 10 27 06**±1.1	**30.83N**±.079	**132.44E**±.091	**53**			**30**	**1-4**
JMA	VIII	03 10 27 06.0±.2	30.85N±.01	132.40E±.02	53	3.2		**¶97viii0352**	
ISC	**VIII**	**04 19 18 12**±10	**32.0N**±.69	**135.8E**±.40	**27**			**11**	**2-3**
JMA	VIII	04 19 18 14.7±.3	32.20N±.02	135.66E±.02	27	2.8		**¶97viii0534**	
ISC	**VIII**	**10 05 58 04**±2.9	**31.9N**±.18	**132.9E**±.22	**35**			**18**	**1-3**
JMA	VIII	10 05 58 04.2±.3	32.03N±.02	132.83E±.02	35	2.8		**¶97viii1354**	
ISC	**VIII**	**18 04 41 54**±1.8	**31.1N**±.13	**132.16E**±.084	**64**±34			**36**	**1-4**
JMA	VIII	18 04 41 54.0±.2	31.10N±.01	132.20E±.02	56	3.3		**¶97viii2623**	
ISC	**VIII**	**20 03 55 31**±3.8	**31.97N**±.080	**132.04E**±.068	**10**±31			**24**	**1-3**
JMA	VIII	20 03 55 31.7±.2	31.97N±.02	132.07E±.02	23	2.9		**¶97viii2902**	
ISC	**VIII**	**25 01 29 01**±1.6	**31.0N**±.15	**132.2E**±.18	**14**			**14**	**1-3**
JMA	VIII	25 01 28 59.7±.3	30.99N±.02	132.35E±.02	14	2.8		**¶97viii3617**	
ISC	**VIII**	**26 19 05 13**±1.1	**31.94N**±.054	**132.06E**±.054	**15**±11			**35**	**1-4**
JMA	VIII	26 19 05 12.5±.3	31.94N±.01	132.10E±.02	13±4	2.9		**¶97viii3891**	
ISC	**IX**	**01 05 02 00**±8.5	**32.1N**±.71	**136.4E**±.39	**497**±54			**23**	**2-8**
JMA	IX	01 05 02 05.1±.2	32.55N±.05	136.51E±.05	462			**¶97ix0049**	
ISC	**IX**	**05 00 14 14**±2.8	**31.5N**±.22	**132.8E**±.11	**42**			**21**	**1-4**
JMA	IX	05 00 14 13.5±.4	31.48N±.02	132.81E±.02	42	2.8		**¶97ix0654**	
ISC	**IX**	**06 19 58 08**±2.3	**31.4N**±.15	**133.5E**±.16	**42**			**26**	**2-4**
JMA	IX	06 19 58 06.9±.2	31.38N±.01	133.48E±.02	42	3.1		**¶97ix0961**	
ISC	**IX**	**07 02 44 03**±3.0	**31.3N**±.20	**133.6E**±.16	**37**			**28**	**2-4**
JMA	IX	07 02 44 04.2±.3	31.41N±.02	133.50E±.02	37	3.3		**¶97ix1002**	
ISC	**IX**	**07 14 46 15**±3.4	**32.6N**±.25	**135.9E**±.13	**44**			**19**	**1-5**
JMA	IX	07 14 46 16.7±.4	32.78N±.02	135.86E±.02	44	2.8		**¶97ix1086**	
ISC	**IX**	**10 20 13 32**±1.3	**30.81N**±.089	**132.3E**±.12	**59**			**19**	**1-3**
JMA	IX	10 20 13 32.1±.2	30.80N±.01	132.33E±.01	59	2.8		**¶97ix1572**	
JMA	**IX**	**12 01 25 18.4**±.3	**31.51N**±.02	**133.55E**±.03	**27**	**2.8**		**¶97ix1759**	
ISC	**IX**	**23 04 54 39**±1.9	**29.4N**±.14	**132.4E**±.12	**40**			**25**	**2-6**
JMA	IX	23 04 54 40.5±.4	29.56N±.03	132.38E±.02	40	3.4		**¶97ix3375**	
ISC	**IX**	**25 05 27 33.7**±.42	**31.36N**±.038	**133.44E**±.041	**47**	**4.1b**,3.7s		**71**	**2-89**
BJI	IX	25 05 27 31.5	31.30N	133.84E	39	4.1b		**¶97ix3685**	
JMA	IX	25 05 27 32.0±.2	31.30N±.01	133.49E±.01	47	4.0			
NEIC	IX	25 05 27 33.1	31.20N	133.50E	30	4.2b			
EIDC	IX	25 05 27 35.3	31.2N	133.5E	30	3.8b,3.7L			
ISC	**IX**	**29 07 27 13**±1.2	**31.22N**±.098	**132.44E**±.096	**59**			**25**	**1-3**
JMA	IX	29 07 27 13.1±.2	31.24N±.01	132.44E±.01	59	2.9		**¶97ix4898**	
ISC	**X**	**08 07 04 41**±1.3	**29.66N**±.087	**132.3E**±.12	**72**			**20**	**2-5**
JMA	X	08 07 04 40.9±.1	29.67N±.01	132.30E±.01	72	3.4		**¶97x1364**	
ISC	**X**	**12 12 02 16**±2.5	**29.90N**±.098	**132.2E**±.27	**90**±42			**14**	**1-4**
JMA	X	12 12 02 16.0±.2	29.89N±.01	132.22E±.02	77	2.9		**¶97x2038**	
ISC	**X**	**28 07 23 08**±9.6	**32.4N**±.69	**136.3E**±.41	**55**			**8**	**1-3**
JMA	X	28 07 23 08.1±.3	32.48N±.02	136.26E±.02	55	3.0		**¶97x4723**	
ISC	**XI**	**02 01 19 14**±4.8	**29.4N**±.21	**132.0E**±.25	**34**±53	**3.6b**		**6**	**9-72**
NEIC	XI	02 01 19 11.1	29.35N	131.97E	10			**¶97xi0177**	
EIDC	XI	02 01 19 11.6	29.4N	131.9E	0	3.6b,3.7L			
NEIC	Less reliable solution.									
ISC	**XI**	**07 01 17 43**±13	**31.3N**±.87	**133.5E**±.48	**31**			**10**	**2-4**
JMA	XI	07 01 17 44.2±.3	31.51N±.02	133.42E±.02	31	2.9		**¶97xi1058**	
ISC	**XI**	**07 23 16 14**±2.6	**32.3N**±.21	**136.3E**±.11	**53**			**18**	**1-4**
JMA	XI	07 23 16 14.8±.1	32.40N±.01	136.32E±.01	53	3.5		**¶97xi1182**	
ISC	**XI**	**09 02 04 06.2**±.65	**32.9N**±.13	**136.9E**±.15	**440**±8.8	**3.0b**		**29**	**1-71**
NEIC	XI	09 02 03 36.3	31.57N	132.24E	33			**¶97xi1383**	
EIDC	XI	09 02 03 45.7	32.2N	132.3E	141	3.2b			
JMA	XI	09 02 04 05.2±.4	33.03N±.03	136.79E±.02	455±4				
NEIC	Less reliable solution.									
ISC	**XII**	**04 04 34 00**±5.0	**30.7N**±.25	**132.1E**±.46	**67**			**9**	**1-2**
JMA	XII	04 04 33 59.6±.2	30.65N±.01	132.10E±.02	67±4	2.8		**¶97xii0555**	
ISC	**XII**	**04 23 04 01**±1.8	**30.4N**±.11	**132.4E**±.16	**64**			**14**	**1-3**
JMA	XII	04 23 04 02.1±.2	30.42N±.01	132.33E±.02	64	3.0		**¶97xii0713**	
ISC	**XII**	**05 11 20 13**±1.6	**32.00N**±.099	**132.1E**±.11	**19**±14			**11**	**1-2**
JMA	XII	05 11 20 12.9±.2	31.98N±.01	132.14E±.01	23±4	2.9		**¶97xii0832**	
ISC	**XII**	**06 05 45 12**±5.9	**30.4N**±.41	**132.9E**±.35	**56**			**9**	**2-4**
JMA	XII	06 05 45 12.7±.2	30.51N±.02	132.83E±.01	56	3.0		**¶97xii1264**	
ISC	**XII**	**07 22 10 00**±1.6	**31.5N**±.13	**132.3E**±.15	**54**			**11**	**1-2**
JMA	XII	07 22 09 59.7±.1	31.52N±.01	132.28E±.02	54±4	2.8		**¶97xii1793**	
ISC	**XII**	**10 22 30 31**±5.3	**31.1N**±.24	**132.3E**±.46	**61**			**7**	**1-2**
JMA	XII	10 22 30 31.0±.2	31.15N±.01	132.23E±.02	61±4	2.5		**¶97xii2439**	
ISC	**XII**	**14 00 36 57**±3.6	**31.3N**±.24	**133.6E**±.19	**43**			**17**	**2-4**
JMA	XII	14 00 36 57.6±.3	31.39N±.02	133.48E±.02	43	2.9		**¶97xii3048**	
ISC	**XII**	**15 12 23 50**±2.5	**31.1N**±.17	**133.6E**±.16	**50**			**20**	**2-4**
JMA	XII	15 12 23 50.5±.3	31.23N±.02	133.53E±.02	50	3.3		**¶97xii3284**	
ISC	**XII**	**17 06 36 09**±2.6	**29.6N**±.16	**132.3E**±.20	**72**			**11**	**2-5**
JMA	XII	17 06 36 09.6±.2	29.60N±.01	132.21E±.02	72	3.1		**¶97xii3563**	
ISC	**XII**	**21 00 10 34**±1.8	**30.61N**±.056	**132.26E**±.080	**19**±14	**4.2b**		**33**	**1-85**
EIDC	XII	21 00 10 32.9±.72	30.7N	132.2E	0	3.9b,4.3L		**¶97xii4183**	
JMA	XII	21 00 10 35.3±.1	30.62N±.01	132.20E±.01	66±3	3.6			
NEIC	XII	21 00 10 35.8	30.63N	132.25E	33	3.8b			
BJI	XII	21 00 10 38.8	29.90N	131.42E	27	4.2b			
EIDC	Error ellipse is semi−major=36.4km semi−minor=15.7km azimuth=103									
NEIC	Less reliable solution.									
ISC	**XII**	**22 11 42 53**±4.6	**30.7N**±.24	**132.1E**±.34	**61**±53			**13**	**1-3**
JMA	XII	22 11 42 52.7±.2	30.70N±.01	132.13E±.02	59±4	3.5		**¶97xii4416**	
ISC	**XII**	**25 15 08 48**±1.5	**31.3N**±.11	**133.6E**±.11	**54**			**22**	**2-4**
JMA	XII	25 15 08 48.5±.1	31.29N±.01	133.54E±.01	54	3.3		**¶97xii4951**	
ISC	**XII**	**29 01 27 33**±2.6	**30.3N**±.18	**132.8E**±.17	**59**			**20**	**2-4**
JMA	XII	29 01 27 33.1±.2	30.31N±.02	132.75E±.01	59	3.0		**¶97xii5525**	

(238) Ryūkyū Islands.

ISC	**VII**	**01 05 03 24**±1.3	**29.3N**±.11	**129.5E**±.26	**36**			**7**	**1-4**
JMA	VII	01 05 03 22.8±.3	29.29N±.02	129.41E±.04	36	3.8		**¶97vii0034**	
ISC	**VII**	**01 09 07 25.6**±.28	**29.57N**±.030	**129.46E**±.039	**181**±3.0	**4.3b**		**152**	**0-123**
BJI	VII	01 09 07 25.6	29.55N	129.46E	188	4.8b		**¶97vii0055**	
NEIC	VII	01 09 07 26.1	29.64N	129.37E	183	4.5b			
JMA	VII	01 09 07 26.2±.1	29.59N±.01	129.44E±.04	176				
EIDC	VII	01 09 07 27.5	29.7N	129.6E	178	3.9b			
ISC	**VII**	**01 12 42 24**±5.9	**28.0N**±.31	**130.2E**±.41	**23**±39			**7**	**0-4**
JMA	VII	01 12 42 24.1±.3	28.00N±.02	130.21E±.03	28	3.2		**¶97vii0089**	
ISC	**VII**	**01 15 40 01**±1.3	**28.2N**±.10	**128.3E**±.16	**129**±24			**12**	**1-4**
JMA	VII	01 15 40 01.3±.2	28.20N±.02	128.26E±.03	124±4			**¶97vii0111**	
JMA	**VII**	**01 20 40 40.3**±.4	**27.94N**±.04	**129.82E**±.03	**72**±5			**¶97vii0139**	
ISC	**VII**	**01 21 57 14**±6.5	**28.2N**±.47	**130.2E**±.22	**86**±57			**8**	**0-4**
JMA	VII	01 21 57 16.5±.3	28.03N±.02	130.17E±.03	58	3.5		**¶97vii0145**	
ISC	**VII**	**01 21 57 25**±1.9	**27.9N**±.15	**130.3E**±.26	**46**±34			**17**	**0-5**
JMA	VII	01 21 57 24.1±.3	27.94N±.02	130.25E±.04	52±5	3.8		**¶97vii0146**	
ISC	**VII**	**01 22 43 42**±1.3	**26.3N**±.29	**129.4E**±.13	**42**			**5**	**1-2**
JMA	VII	01 22 43 40.8±.2	26.35N±.06	129.46E±.02	42	3.0		**¶97vii0151**	
JMA	**VII**	**02 06 36 09.2**±.3	**27.90N**±.02	**130.10E**±.02	**51**	**2.8**		**¶97vii0191**	
JMA	**VII**	**02 09 09 26.9**±.4	**28.09N**±.02	**130.46E**±.04	**44**	**3.1**		**¶97vii0209**	
JMA	**VII**	**02 09 16 40.9**±.3	**27.91N**±.03	**129.81E**±.02	**71**±4			**¶97vii0211**	
ISC	**VII**	**03 21 33 14**±1.1	**27.19N**±.071	**130.28E**±.098	**61**±49			**12**	**1-4**
JMA	VII	03 21 33 14.1±.1	27.17N±.01	130.28E±.01	67			**¶97vii0456**	
ISC	**VII**	**03 23 45 27**±1.8	**28.6N**±.13	**130.1E**±.23	**18**±19			**6**	**0-2**
JMA	VII	03 23 45 27.6±.2	28.54N±.02	130.09E±.03	24±3	3.0		**¶97vii0469**	
ISC	**VII**	**04 16 23 45**±1.2	**26.1N**±.12	**128.71E**±.083	**60**			**9**	**1-2**
JMA	VII	04 16 23 44.5±.2	26.11N±.01	128.72E±.01	60	3.2		**¶97vii0592**	
ISC	**VII**	**05 03 34 40**±1.8	**29.23N**±.097	**129.6E**±.33	**0**			**5**	**1-2**
JMA	VII	05 03 34 40.6±.5	29.25N±.02	129.48E±.07	0	2.9		**¶97vii0667**	
ISC	Poorly determined									
ISC	**VII**	**05 11 30 02**±2.5	**27.6N**±.22	**130.2E**±.33	**74**±35			**10**	**1-4**
JMA	VII	05 11 30 00.9±.2	27.54N±.01	130.33E±.02	64			**¶97vii0720**	
ISC	**VII**	**05 12 41 00**±4.0	**28.7N**±.27	**128.6E**±.17	**0**			**5**	**1-2**
JMA	VII	05 12 40 58.2±.4	28.79N±.03	128.51E±.02	0	3.2		**¶97vii0728**	
ISC	**VII**	**05 17 23 24**±1.1	**28.2N**±.23	**129.4E**±.20	**19**±25			**6**	**0-3**
JMA	VII	05 17 23 23.9±.2	28.28N±.04	129.40E±.03	31	3.2		**¶97vii0759**	
ISC	**VII**	**05 19 43 55**±4.0	**26.1N**±.51	**127.6E**±.14	**24**			**4**	**0-1**
JMA	VII	05 19 43 55.1±.2	26.04N±.02	127.60E±.01	24±1	2.8		**¶97vii0779**	
ISC	Poorly determined									
ISC	**VII**	**05 21 47 06**±1.9	**27.6N**±.14	**127.4E**±.23	**105**			**8**	**1-3**
JMA	VII	05 21 47 06.4±.2	27.63N±.02	127.43E±.02	105			**¶97vii0796**	
ISC	**VII**	**06 15 15 21.6**±.74	**29.25N**±.058	**130.8E**±.15	**64**±34			**24**	**1-5**
JMA	VII	06 15 15 21.8±.2	29.27N±.01	130.74E±.03	65			**¶97vii0896**	
JMA	**VII**	**06 15 29 38.4**±.6	**28.06N**±.05	**128.13E**±.05	**114**			**¶97vii0899**	
ISC	**VII**	**07 06 56 02.5**±.95	**26.8N**±.11	**127.9E**±.15	**32**±10	3.2b		**8**	**0-78**
JMA	VII	07 06 56 01.1±.2	26.85N±.02	127.91E±.02	53±3	3.8		**¶97vii1006**	
ISC	**VII**	**07 08 36 40**±6.6	**28.1N**±.29	**130.2E**±.43	**19**±43			**8**	**0-3**
JMA	VII	07 08 36 40.4±.4	28.15N±.03	130.23E±.03	27±3	3.3		**¶97vii1015**	
ISC	**VII**	**08 01 16 35**±3.5	**29.0N**±.13	**129.3E**±.33	**26**±30			**5**	**1-2**
JMA	VII	08 01 16 34.7±.2	29.04N±.01	129.21E±.02	25	2.8		**¶97vii1116**	
ISC	Poorly determined									
ISC	**VII**	**08 07 10 04**±1.5	**28.9N**±.17	**128.8E**±.30	**130**±43			**13**	**1-5**
JMA	VII	08 07 10 05.0±.2	28.92N±.01	128.75E±.03	114			**¶97vii1148**	
ISC	**VII**	**08 08 44 17**±1.0	**26.8N**±.10	**127.8E**±.11	**11**			**6**	**0-2**
JMA	VII	08 08 44 16.6±.2	26.82N±.01	127.77E±.02	11±3	3.2		**¶97vii1159**	
ISC	**VII**	**08 10 32 04**±1.0	**27.0N**±.10	**129.63E**±.097	**64**			**7**	**1-3**
JMA	VII	08 10 32 03.5±.1	26.93N±.01	129.63E±.01	64			**¶97vii1173**	
ISC	**VII**	**09 03 06 22.9**±.40	**28.94N**±.044	**129.79E**±.084	**64**±6.2	**3.8b**		**47**	**1-173**
NEIC	VII	09 03 06 21.6	28.88N	129.11E	50			**¶97vii1280**	
JMA	VII	09 03 06 22.7±.1	29.04N±.01	129.52E±.03	40	3.6			
EIDC	VII	09 03 06 26.9	29.0N	129.1E	79	3.4b,3.0s			

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
BJI	VII	09 03 06 27.8	29.27N	129.34E	39	3.7b		
NEIC	Single network solution.							
JMA	**VII**	**09 17 32 56.8**±.2	**28.29N**±.02	**130.38E**±.02	**38**±2	**2.9**	**¶97vii1369**	
ISC	**VII**	**10 05 12 08.9**±.58	**28.25N**±.042	**130.39E**±.070	**40**±7.8	**3.9b**	**38**	**0-90**
EIDC	VII	10 05 12 05.0	28.3N	130.2E	0	3.9b,3.6L		¶97vii1455
NEIC	VII	10 05 12 07.8	28.35N	130.32E	33	3.7b		
JMA	VII	10 05 12 08.1±.3	28.21N±.02	130.43E±.03	47±4	3.8		
BJI	VII	10 05 12 08.4	28.26N	130.48E	36	4.3b,4.4s		
NEIC	Less reliable solution.							
JMA	Felt I=II J1							
ISC	**VII**	**10 09 13 24**±4.6	**27.9N**±.37	**130.1E**±.39	**48**±36		**6**	**0-4**
JMA	VII	10 09 13 23.3±.2	27.93N±.02	130.09E±.02	52±2	3.1		¶97vii1484
ISC	**VII**	**10 14 13 56**±1.9	**28.0N**±.20	**129.6E**±.20	**27**	3.1b	**5**	**0-76**
JMA	VII	10 14 13 56.5±.2	28.07N±.02	129.51E±.02	27±3	2.9		¶97vii1520
JMA	**VII**	**10 22 54 09.9**±.5	**28.13N**±.02	**130.35E**±.03	**31**	**2.9**		¶97vii1582
ISC	**VII**	**11 00 11 22**±1.0	**28.84N**±.079	**129.8E**±.22	**15**		**5**	**0-2**
JMA	VII	11 00 11 22.0±.2	28.86N±.01	129.82E±.03	15	3.1		¶97vii1596
JMA	**VII**	**11 09 56 01.6**±.1	**28.16N**±.01	**130.35E**±.01	**44**±1	**3.1**		¶97vii1661
JMA	**VII**	**11 10 12 14.6**±.3	**28.23N**±.03	**130.37E**±.02	**38**±3	**2.8**		¶97vii1666
ISC	**VII**	**11 10 20 26**±2.1	**28.2N**±.15	**130.3E**±.26	**37**±33		**12**	**0-4**
JMA	VII	11 10 20 24.7±.3	28.19N±.02	130.36E±.03	42±3	3.4		¶97vii1668
ISC	**VII**	**11 13 52 42**±1.6	**28.8N**±.11	**129.9E**±.29	**27**		**4**	**0-1**
JMA	VII	11 13 52 42.3±.1	28.79N±.01	129.90E±.03	27±4	2.9		¶97vii1690
ISC	Poorly determined							
ISC	**VII**	**11 14 02 44**±1.6	**28.84N**±.093	**129.9E**±.30	**20**		**4**	**1-1**
JMA	VII	11 14 02 44.3±.1	28.85N±.01	129.88E±.02	20	3.0		¶97vii1692
ISC	Poorly determined							
ISC	**VII**	**11 19 12 52**±1.2	**26.1N**±.13	**129.50E**±.090	**44**		**8**	**1-2**
JMA	VII	11 19 12 51.3±.2	26.18N±.03	129.51E±.02	44	3.2		¶97vii1719
JMA	**VII**	**11 20 35 15.6**±.3	**28.09N**±.01	**130.37E**±.02	**37**	**2.8**		¶97vii1727
ISC	**VII**	**12 18 25 17**±6.5	**28.8N**±.46	**128.7E**±.22	**157**±46		**8**	**1-4**
JMA	VII	12 18 25 19.4±.5	28.63N±.05	128.72E±.04	138			¶97vii1851
ISC	**VII**	**13 01 32 24**±1.5	**28.90N**±.084	**129.8E**±.25	**4**		**4**	**1-1**
JMA	VII	13 01 32 24.5±.1	28.90N±.01	129.81E±.03	4	2.8		¶97vii1905
ISC	Poorly determined							
ISC	**VII**	**13 13 32 11**±7.0	**28.4N**±.40	**128.9E**±.35	**3**±31		**6**	**1-3**
JMA	VII	13 13 32 07.5±.8	28.61N±.05	128.76E±.04	0	3.0		¶97vii1973
ISC	**VII**	**14 01 57 47**±1.3	**26.0N**±.15	**128.7E**±.10	**67**		**6**	**1-2**
JMA	VII	14 01 57 46.3±.2	26.02N±.02	128.70E±.02	67			¶97vii2057
ISC	**VII**	**14 07 01 49**±2.4	**29.7N**±.25	**129.9E**±.57	**56**±43		**5**	**0-2**
JMA	VII	14 07 01 48.7±.1	29.67N±.01	129.83E±.04	62			¶97vii2078
ISC	Poorly determined							
ISC	**VII**	**14 20 22 10**±1.2	**28.92N**±.080	**129.9E**±.21	**19**±17		**8**	**1-4**
JMA	VII	14 20 22 10.3±.1	28.92N±.01	129.96E±.04	29	3.1		¶97vii2197
ISC	**VII**	**14 21 00 02**±3.5	**27.6N**±.43	**127.8E**±.39	**111**±63		**6**	**1-2**
JMA	VII	14 21 00 02.2±.1	27.58N±.02	127.77E±.02	106±3			¶97vii2203
JMA	**VII**	**14 21 10 07.1**±.1	**27.53N**±.01	**128.27E**±.01	**62**±1			¶97vii2205
ISC	**VII**	**14 21 34 25**±1.1	**26.4N**±.13	**128.99E**±.098	**46**		**6**	**1-2**
JMA	VII	14 21 34 24.5±.1	26.39N±.01	129.01E±.01	46±5	2.8		¶97vii2207
JMA	**VII**	**15 22 01 58.1**±.3	**27.65N**±.03	**129.51E**±.03	**83**			¶97vii2359
ISC	**VII**	**16 08 57 06**±1.5	**28.7N**±.11	**128.7E**±.17	**34**±15	**3.6b**	**11**	**1-62**
JMA	VII	16 08 57 02.0±.5	28.81N±.02	128.54E±.02	2±4	3.5		¶97vii2411
EIDC	VII	16 08 57 07.9	28.3N	131.3E	0	3.6b,3.2L		
ISC	**VII**	**17 06 55 28.7**±.96	**28.0N**±.11	**129.7E**±.12	**50**		**6**	**0-3**
JMA	VII	17 06 55 28.5±.2	27.96N±.02	129.64E±.03	50	3.3		¶97vii2560
ISC	**VII**	**17 13 00 15**±7.0	**28.2N**±.43	**130.4E**±.65	**45**		**4**	**0-2**
JMA	VII	17 13 00 14.7±.2	28.22N±.01	130.40E±.02	45±2	2.9		¶97vii2598
ISC	Poorly determined							
JMA	**VII**	**17 18 52 37.6**±.3	**28.91N**±.02	**129.84E**±.02	**16**±3	**2.9**		¶97vii2628
JMA	**VII**	**17 19 45 17.9**±.3	**28.10N**±.03	**130.35E**±.02	**31**±4	**3.0**		¶97vii2635
ISC	**VII**	**18 03 44 31**±1.7	**29.2N**±.11	**130.8E**±.25	**67**		**7**	**1-2**
JMA	VII	18 03 44 30.6±.2	29.20N±.01	130.85E±.03	67			¶97vii2689
ISC	**VII**	**18 20 25 56**±1.4	**26.74N**±.090	**129.94E**±.092	**66**±57		**10**	**1-5**
JMA	VII	18 20 25 55.8±.1	26.74N±.01	129.92E±.01	54	3.4		¶97vii2786
ISC	**VII**	**19 16 58 47.1**±.99	**26.9N**±.10	**129.57E**±.094	**39**		**7**	**1-3**
JMA	VII	19 16 58 46.3±.1	26.87N±.01	129.58E±.01	39	2.8		¶97vii2917
ISC	**VII**	**19 19 44 09**±1.2	**26.4N**±.21	**128.9E**±.12	**46**		**5**	**1-2**
JMA	VII	19 19 44 08.8±.2	26.38N±.02	128.97E±.02	46	3.0		¶97vii2943
ISC	**VII**	**19 21 16 10.3**±.40	**28.03N**±.043	**129.68E**±.050	**55**±5.9	**3.7b**,3.2s	**86**	**0-85**
BJI	VII	19 21 16 05.9	27.55N	129.87E	41	4.1b,3.8s		¶97vii2956
NEIC	VII	19 21 16 05.9	27.66N	129.94E	33			
JMA	VII	19 21 16 10.8±.2	28.11N±.02	129.55E±.03	60±3	4.0		
EIDC	VII	19 21 16 11.6	27.8N	130.1E	73	3.4b,3.2s		
NEIC	Poor solution.							
JMA	**VII**	**19 23 47 55.1**±.7	**28.77N**±.06	**129.02E**±.05	**92**			¶97vii2974
ISC	**VII**	**20 15 08 03.9**±.71	**26.0N**±.14	**126.8E**±.11	**54**±21		**14**	**0-5**
JMA	VII	20 15 08 04.0±.1	26.04N±.02	126.85E±.01	56±2	3.5		¶97vii3108
ISC	**VII**	**20 19 39 25**±1.3	**28.90N**±.093	**129.9E**±.32	**20**±25		**5**	**1-2**
JMA	VII	20 19 39 24.8±.1	28.91N±.01	129.88E±.03	25	3.0		¶97vii3142
ISC	Poorly determined							
ISC	**VII**	**20 20 37 14.7**±.98	**28.2N**±.14	**129.5E**±.18	**28**±13		**7**	**0-3**
JMA	VII	20 20 37 14.4±.1	28.24N±.01	129.53E±.02	35±2	3.0		¶97vii3147
ISC	**VII**	**20 22 22 40**±6.9	**25.4N**±.47	**127.7E**±.17	**17**		**7**	**1-3**
JMA	VII	20 22 22 43.0±.4	25.58N±.02	127.60E±.02	17±3	3.2		¶97vii3154
ISC	**VII**	**21 00 30 28**±1.3	**28.68N**±.081	**129.5E**±.13	**10**		**5**	**0-2**
JMA	VII	21 00 30 27.5±.2	28.67N±.01	129.43E±.02	10	3.5		¶97vii3166
ISC	**VII**	**21 15 51 55**±1.6	**28.78N**±.094	**129.9E**±.28	**19**		**4**	**0-1**
JMA	VII	21 15 51 55.5±.2	28.79N±.01	129.89E±.03	19	2.8		¶97vii3259
ISC	Poorly determined							
JMA	**VII**	**21 22 42 41.3**±.3	**26.26N**±.02	**129.39E**±.01	**37**	**2.9**		¶97vii3292
ISC	**VII**	**22 09 44 03**±5.3	**26.8N**±.41	**126.8E**±.47	**70**		**4**	**0-1**
JMA	VII	22 09 44 03.8±.2	26.78N±.02	126.81E±.02	70			¶97vii3352
ISC	Poorly determined							
ISC	**VII**	**25 03 39 52**±1.5	**27.4N**±.36	**128.6E**±.41	**59**±19	3.6b	**7**	**0-78**
JMA	VII	25 03 39 52.1±.1	27.45N±.03	128.58E±.03	45±4	3.7		¶97vii3764
ISC	**VII**	**25 20 01 24.9**±.57	**28.26N**±.052	**129.86E**±.097	**57**±8.4	**3.6b**	**36**	**0-72**
JMA	VII	25 20 01 24.5±.1	28.31N±.01	129.81E±.02	57±2	3.8		¶97vii3870
EIDC	VII	25 20 01 28.7	28.4N	130.4E	100	3.3b,3.5L		
JMA	**VII**	**26 06 03 17.3**±.4	**27.82N**±.04	**129.72E**±.04	**66**			¶97vii3926
ISC	**VII**	**26 07 32 59.8**±.83	**26.65N**±.087	**127.8E**±.12	**22**		**7**	**0-3**
JMA	VII	26 07 32 59.7±.0	26.66N±.01	127.83E±.01	22±2	3.0		¶97vii3934
ISC	**VII**	**26 11 16 41**±1.1	**27.5N**±.22	**128.6E**±.27	**27**±15		**6**	**0-2**
JMA	VII	26 11 16 40.4±.1	27.46N±.03	128.58E±.04	40	3.4		¶97vii3958
ISC	**VII**	**27 16 54 13**±1.9	**29.3N**±.12	**130.8E**±.22	**3**		**6**	**1-2**
JMA	VII	27 16 54 14.2±.4	29.37N±.02	130.78E±.04	3	2.9		¶97vii4140
ISC	**VII**	**27 17 30 11**±1.7	**29.4N**±.12	**130.7E**±.18	**25**		**8**	**1-3**
JMA	VII	27 17 30 10.1±.3	29.34N±.02	130.75E±.03	25	2.9		¶97vii4143
ISC	**VII**	**27 19 30 22**±1.6	**29.5N**±.10	**130.4E**±.27	**87**±28		**9**	**1-3**
JMA	VII	27 19 30 22.2±.2	29.49N±.02	130.38E±.05	93			¶97vii4155
ISC	**VII**	**27 19 56 56**±2.1	**26.6N**±.19	**127.1E**±.16	**14**		**4**	**0-1**
JMA	VII	27 19 56 56.6±.2	26.62N±.01	127.13E±.01	14	3.0		¶97vii4156
ISC	Poorly determined							
ISC	**VII**	**28 03 45 23**±1.1	**29.32N**±.081	**130.3E**±.24	**64**±30		**12**	**1-4**
JMA	VII	28 03 45 22.8±.1	29.31N±.01	130.32E±.03	69±4			¶97vii4203
JMA	**VII**	**28 05 58 29.9**±.2	**28.00N**±.01	**130.26E**±.02	**49**	**2.8**		¶97vii4214
ISC	**VII**	**28 07 14 05**±1.0	**26.9N**±.10	**129.62E**±.099	**52**		**7**	**1-3**
JMA	VII	28 07 14 04.9±.1	26.93N±.01	129.63E±.01	52	3.3		¶97vii4227
ISC	**VII**	**28 07 20 54**±1.1	**27.0N**±.11	**129.6E**±.11	**51**		**6**	**1-3**
JMA	VII	28 07 20 53.3±.1	26.95N±.01	129.65E±.01	51	3.1		¶97vii4228
ISC	**VII**	**29 10 27 49**±2.1	**29.2N**±.11	**129.5E**±.32	**8**		**4**	**1-2**
JMA	VII	29 10 27 49.2±.4	29.24N±.02	129.38E±.05	8	2.9		¶97vii4421
ISC	Poorly determined							
ISC	**VII**	**29 21 19 10**±1.1	**26.6N**±.15	**128.2E**±.19	**53**		**7**	**0-2**
JMA	VII	29 21 19 09.5±.2	26.61N±.02	128.20E±.02	53±2	3.0		¶97vii4483
ISC	**VII**	**30 09 04 38**±1.8	**27.9N**±.11	**130.3E**±.14	**25**±21		**7**	**0-2**
JMA	VII	30 09 04 37.6±.2	27.90N±.01	130.27E±.02	39±3	3.4		¶97vii4562
ISC	**VII**	**30 13 15 20**±2.8	**28.3N**±.18	**130.3E**±.25	**33**±14		**9**	**0-3**
JMA	VII	30 13 15 18.2±.3	28.22N±.02	130.40E±.03	40±3	3.3		¶97vii4586
ISC	**VII**	**31 11 40 09**±2.3	**29.3N**±.12	**129.4E**±.31	**11**		**5**	**1-2**
JMA	VII	31 11 40 08.5±.3	29.25N±.01	129.33E±.03	11±4	2.8		¶97vii4724
ISC	Poorly determined							
ISC	**VII**	**31 12 13 54.3**±.50	**29.13N**±.050	**129.8E**±.13	**35**±11	**3.5b**	**21**	**1-75**
EIDC	VII	31 12 13 53.3	29.1N	131.1E	0	3.5b		¶97vii4728
JMA	VII	31 12 13 53.4±.1	29.13N±.01	129.75E±.03	41±4	3.6		
ISC	**VII**	**31 15 18 02**±1.5	**25.9N**±.16	**128.8E**±.10	**61**		**7**	**1-3**
JMA	VII	31 15 18 02.2±.3	25.96N±.02	128.77E±.02	61			¶97vii4747
ISC	**VII**	**31 16 21 23.3**±.96	**26.65N**±.096	**127.8E**±.13	**17**±28		**6**	**0-2**
JMA	VII	31 16 21 23.3±.0	26.65N±.01	127.84E±.01	23±2	3.2		¶97vii4760
ISC	**VII**	**31 16 26 44.2**±.61	**27.72N**±.056	**130.43E**±.070	**72**	**3.6b**	**37**	**1-73**
JMA	VII	31 16 26 44.2±.1	27.73N±.01	130.40E±.02	72±3			¶97vii4763
NEIC	VII	31 16 26 45.6	27.62N	130.75E	33			
EIDC	VII	31 16 26 46.6	27.6N	130.8E	23	3.5b,3.3s		
NEIC	Single network solution.							
ISC	**VII**	**31 20 06 07**±1.2	**26.4N**±.21	**128.9E**±.12	**44**		**5**	**1-2**
JMA	VII	31 20 06 06.4±.4	26.39N±.04	128.95E±.03	44	3.0		¶97vii4783
ISC	**VIII**	**01 02 04 03**±4.5	**27.3N**±.26	**129.1E**±.44	**20**±34		**5**	**0-2**
JMA	VIII	01 02 04 03.3±.2	27.37N±.02	129.04E±.02	28±3	3.0		¶97viii0007
ISC	Poorly determined							
JMA	**VIII**	**01 06 31 50.8**±.5	**29.08N**±.01	**130.29E**±.06	**17**±5	**2.8**		¶97viii0035
ISC	**VIII**	**01 13 45 15.2**±.92	**29.74N**±.086	**129.7E**±.19	**166**±14		**32**	**0-7**
JMA	VIII	01 13 45 15.6±.3	29.73N±.02	129.73E±.05	159±5			¶97viii0071
ISC	**VIII**	**01 13 56 53.2**±.90	**26.94N**±.084	**129.59E**±.089	**44**		**9**	**1-3**
JMA	VIII	01 13 56 52.6±.1	26.91N±.01	129.59E±.01	44	3.2		¶97viii0074
ISC	**VIII**	**01 16 17 41**±1.8	**26.52N**±.090	**128.89E**±.084	**28**±19		**12**	**1-5**
JMA	VIII	01 16 17 41.5±.2	26.55N±.02	128.86E±.02	50	3.2		¶97viii0090
ISC	**VIII**	**02 06 02 26**±5.7	**26.8N**±.22	**126.8E**±.62	**158**		**6**	**1-4**
JMA	VIII	02 06 02 25.6±.4	26.79N±.03	126.79E±.04	158±4			¶97viii0181
ISC	**VIII**	**03 01 09 36**±1.8	**28.6N**±.14	**129.2E**±.27	**65**		**4**	**0-1**
JMA	VIII	03 01 09 35.7±.2	28.63N±.01	129.23E±.03	65			¶97viii0278
ISC	Poorly determined							
ISC	**VIII**	**03 01 27 34**±4.0	**28.0N**±.31	**130.2E**±.34	**39**±46		**7**	**0-4**
JMA	VIII	03 01 27 33.0±.4	27.97N±.03	130.24E±.03	46±3	3.1		¶97viii0281
JMA	**VIII**	**03 04 38 19.5**±.4	**27.92N**±.03	**129.86E**±.03	**62**			¶97viii0297
ISC	**VIII**	**03 14 40 11.2**±.99	**29.60N**±.056	**129.4E**±.14	**142**±20		**19**	**0-4**
JMA	VIII	03 14 40 11.8±.1	29.62N±.01	129.41E±.04	135			¶97viii0373
JMA	**VIII**	**03 20 20 59.0**±.2	**28.00N**±.02	**130.22E**±.01	**42**±3	**2.9**		¶97viii0407
ISC	**VIII**	**03 21 39 45**±2.3	**29.3N**±.12	**129.4E**±.31	**12**		**4**	**1-2**
JMA	VIII	03 21 39 45.1±.3	29.25N±.01	129.31E±.04	12	3.2		¶97viii0416
ISC	Poorly determined							
ISC	**VIII**	**04 06 19 55.1**±.99	**26.93N**±.096	**129.56E**±.097	**54**		**7**	**1-3**
JMA	VIII	04 06 19 54.7±.1	26.90N±.01	129.58E±.01	54	3.3		¶97viii0467
ISC	**VIII**	**04 14 18 38**±3.0	**28.7N**±.21	**130.8E**±.36	**62**		**6**	**1-3**
JMA	VIII	04 14 18 37.4±.2	28.71N±.01	130.78E±.03	62			¶97viii0513
ISC	**VIII**	**05 07 43 50.2**±.71	**28.68N**±.065	**129.4E**±.13	**88**±17		**18**	**0-5**
JMA	VIII	05 07 43 50.7±.1	28.78N±.01	129.18E±.03	66±5			¶97viii0630
ISC	**VIII**	**05 09 37 55.1**±.98	**26.94N**±.096	**129.55E**±.098	**56**		**8**	**1-3**
JMA	VIII	05 09 37 54.7±.1	26.91N±.01	129.58E±.01	56	3.4		¶97viii0649
ISC	**VIII**	**05 22 55 58**±1.6	**29.14N**±.090	**129.6E**±.31	**5**		**4**	**1-1**
JMA	VIII	05 22 55 58.1±.2	29.14N±.01	129.54E±.03	5±4	3.1		¶97viii0732
ISC	Poorly determined							
JMA	**VIII**	**07 06 01 29.9**±.1	**29.64N**±.02	**129.94E**±.04	**112**			¶97viii0895
JMA	**VIII**	**07 07 45 57.7**±.3	**28.07N**±.03	**130.19E**±.03	**58**±4	**2.9**		¶97viii0904
ISC	**VIII**	**07 11 33 19.5**±.93	**26.37N**±.091	**128.68E**±.082	**45**±8.3	**3.7b**	**23**	**1-79**
JMA	VIII	07 11 33 18.8±.2	26.32N±.02	128.73E±.02	41	4.1		¶97viii0936
NEIC	VIII	07 11 33 23.7	26.73N	127.87E	33			
BJI	VIII	07 11 33 26.9	26.28N	127.60E	35	4.2b		
EIDC	VIII	07 11 33 30.2	26.8N	127.8E	74	3.5b,3.9L		
NEIC	Single network solution.							
JMA	**VIII**	**07 18 22 16.2**±.1	**28.96N**±.01	**129.83E**±.01	**9**±1	**3.3**		¶97viii0986
JMA	**VIII**	**08 17 30 21.4**±.3	**27.87N**±.02	**130.00E**±.03	**64**			¶97viii1142
ISC	**VIII**	**08 19 51 58**±1.4	**26.1N**±.26	**126.1E**±.18	**12**		**9**	**1-3**
JMA	VIII	08 19 51 57.1±.4	26.17N±.03	126.05E±.02	12±5	3.6		¶97viii1158
ISC	**VIII**	**09 09 44 46**±2.1	**29.9N**±.12	**130.9E**±.22	**54**±55		**8**	**1-2**
JMA	VIII	09 09 44 45.2±.2	29.86N±.02	130.89E±.03	60	3.1		¶97viii1234
ISC	**VIII**	**09 13 58 26**±1.4	**29.23N**±.094	**130.6E**±.22	**44**		**8**	**1-2**
JMA	VIII	09 13 58 25.3±.2	29.22N±.01	130.65E±.03	44	3.2		¶97viii1260
ISC	**VIII**	**09 14 21 59.8**±.69	**29.21N**±.053	**130.6E**±.11	**56**±7.7	**3.8b**	**26**	**1-90**
JMA	VIII	09 14 22 00.3±.2	29.27N±.01	130.56E±.03	72			¶97viii1265
NEIC	VIII	09 14 22 14.2	30.26N	130.77E	138			
EIDC	VIII	09 14 22 15.2	30.2N	130.7E	127	3.4b		
NEIC	Single network solution.							
ISC	**VIII**	**10 03 09 16**±2.6	**27.9N**±.22	**130.1E**±.32	**50**±33		**9**	**0-5**
JMA	VIII	10 03 09 15.3±.2	27.92N±.02	130.10E±.02	55±2	3.4		¶97viii1343
ISC	**VIII**	**10 06 12 24**±1.4	**29.3N**±.12	**130.6E**±.29	**67**±49		**10**	**1-3**
JMA	VIII	10 06 12 23.6±.2	29.25N±.02	130.57E±.04	71			¶97viii1357
JMA	**VIII**	**10 06 25 18.0**±.0	**28.08N**±.00	**129.51E**±.00	**2**±1	**3.1**		¶97viii1360
ISC	**VIII**	**10 07 22 35**±1.2	**29.32N**±.081	**130.5E**±.20	**50**		**9**	**1-2**
JMA	VIII	10 07 22 34.9±.3	29.31N±.02	130.55E±.05	50	3.3		¶97viii1367
ISC	**VIII**	**10 08 29 13.8**±.43	**29.23N**±.038	**130.72E**±.054	**47**±6.4	**3.9b**,3.8s	**63**	**1-89**
NEIC	VIII	10 08 29 12.6	29.31N	130.57E	33	4.0b		¶97viii1373
JMA	VIII	10 08 29 14.4±.2	29.26N±.01	130.59E±.03	61			
BJI	VIII	10 08 29 16.8	28.88N	130.21E	40	4.3b		
EIDC	VIII	10 08 29 17.8	29.5N	130.6E	60	3.6b,3.4L		
NEIC	Less reliable solution.							
ISC	**VIII**	**10 10 23 20**±1.2	**29.27N**±.095	**130.5E**±.24	**71**		**9**	**1-3**
JMA	VIII	10 10 23 19.8±.2	29.29N±.01	130.48E±.03	71			¶97viii1380
ISC	**VIII**	**10 15 07 37.5**±.41	**29.23N**±.035	**130.72E**±.043	**47**±5.6	**3.9b**,4.1s	**83**	**1-78**
JMA	VIII	10 15 07 38.0±.2	29.26N±.02	130.60E±.04	59	3.6		¶97viii1410
BJI	VIII	10 15 07 38.7	29.13N	130.78E	66	4.3b,4.1s		
NEIC	VIII	10 15 07 39.1	29.33N	130.81E	60			

EIDC VIII 10 15 07 39.7 29.4N 130.7E 46 3.6b,3.7L
ISC VIII 10 15 20 18±1.5 **29.3N**±.11 **130.6E**±.28 **64**±52 **9 1-3**
JMA VIII 10 15 20 18.1±.3 29.27N±.02 130.59E±.04 60 3.2 **¶97viii1413**
ISC VIII 10 15 58 58.9±.70 **29.58N**±.059 **130.9E**±.11 **61**±10 **3.6b 31 1-71**
NEIC VIII 10 15 58 55.2 29.44N 130.95E 33 **¶97viii1420**
JMA VIII 10 15 58 59.8±.2 29.63N±.01 130.78E±.03 62
EIDC VIII 10 15 59 03.9 29.9N 131.0E 77 3.2L,3.5b
NEIC Poor solution.
ISC VIII 10 17 15 42.6±.98 **28.2N**±.14 **129.5E**±.16 **20**±15 **7 0-4**
JMA VIII 10 17 15 42.4±.1 28.22N±.03 129.53E±.02 31±3 3.3 **¶97viii1426**
JMA VIII 10 20 15 57.1±.8 **28.74N**±.03 **128.60E**±.04 **0 3.1** **¶97viii1453**
ISC VIII 10 20 32 44±1.2 **29.32N**±.087 **130.5E**±.21 **99**±22 **16 1-4**
JMA VIII 10 20 32 44.7±.2 29.34N±.02 130.41E±.05 93 **¶97viii1454**
ISC VIII 11 07 31 48±1.0 **26.43N**±.097 **129.13E**±.081 **43** **10 1-5**
JMA VIII 11 07 31 47.4±.1 26.44N±.01 129.16E±.01 43 3.3 **¶97viii1526**
JMA VIII 11 11 18 38.9±.1 **28.30N**±.02 **129.47E**±.02 **37 2.8** **¶97viii1551**
ISC VIII 11 16 09 47±2.1 **28.4N**±.16 **130.3E**±.28 **40**±26 **10 0-4**
JMA VIII 11 16 09 46.6±.4 28.35N±.03 130.31E±.04 43±4 3.2 **¶97viii1583**
ISC VIII 11 23 09 14±1.1 **28.3N**±.15 **129.5E**±.19 **22**±17 **5 0-2**
JMA VIII 11 23 09 14.0±.1 28.32N±.02 129.49E±.02 28±2 2.8 **¶97viii1641**
ISC Poorly determined
ISC VIII 11 23 31 50±4.4 **28.8N**±.19 **128.6E**±.51 **91** **4 1-1**
JMA VIII 11 23 31 49.9±.2 28.84N±.01 128.59E±.02 91 **¶97viii1645**
ISC Poorly determined
ISC VIII 11 23 58 31±2.8 **29.3N**±.14 **130.8E**±.27 **6** **4 1-1**
JMA VIII 11 23 58 32.0±.4 29.26N±.02 130.77E±.04 6 2.9 **¶97viii1648**
ISC Poorly determined
ISC VIII 12 10 21 14±1.9 **26.3N**±.19 **128.8E**±.14 **35** **5 1-2**
JMA VIII 12 10 21 14.0±.3 26.38N±.02 128.86E±.02 35 3.0 **¶97viii1720**
ISC VIII 12 20 45 58±1.4 **25.8N**±.13 **128.91E**±.085 **56** **9 1-3**
JMA VIII 12 20 45 58.5±.3 25.85N±.02 128.91E±.02 56 3.4 **¶97viii1805**
JMA VIII 12 23 18 23.6±.3 **27.87N**±.03 **129.83E**±.03 **73**±5 **¶97viii1818**
ISC VIII 13 16 25 17±2.0 **26.1N**±.15 **128.7E**±.13 **59**±62 **8 1-2**
JMA VIII 13 16 25 17.0±.2 26.07N±.02 128.74E±.02 61 **¶97viii1936**
ISC VIII 13 16 47 27±2.3 **28.3N**±.18 **130.3E**±.25 **39** **8 0-3**
JMA VIII 13 16 47 26.2±.3 28.25N±.02 130.38E±.03 39±3 2.8 **¶97viii1939**
ISC VIII 13 23 17 17±5.2 **29.5N**±.30 **129.8E**±.73 **161**±53 **6 0-2**
JMA VIII 13 23 17 16.7±.1 29.42N±.03 129.81E±.06 160 **¶97viii1977**
ISC VIII 14 12 18 56±3.5 **26.9N**±.22 **129.4E**±.32 **48** **6 1-2**
JMA VIII 14 12 18 55.0±.4 26.88N±.03 129.47E±.03 48 3.1 **¶97viii2057**
JMA VIII 14 14 51 41.0±.2 **28.92N**±.01 **129.51E**±.04 **2 3.1** **¶97viii2082**
ISC VIII 15 04 08 50±1.1 **29.14N**±.093 **129.7E**±.35 **36** **5 1-2**
JMA VIII 15 04 08 49.4±.2 29.15N±.01 129.66E±.05 36 3.8 **¶97viii2161**
JMA VIII 17 18 10 35.1±.3 **28.08N**±.02 **130.48E**±.03 **46 3.2** **¶97viii2571**
ISC VIII 17 23 03 31.2±.31 **25.05N**±.034 **128.15E**±.053 **41**±.9* **4.5b,4.1s** **69 1-95**
JMA VIII 17 23 03 29.2±.3 24.98N±.02 128.13E±.02 65 **¶97viii2596**
BJI VIII 17 23 03 30.0 25.11N 128.14E 29 4.6b,4.3s
NEIC VIII 17 23 03 30.5 25.03N 128.23E 33 4.8b,4.2s
MOS VIII 17 23 03 31.3 25.0N 128.2E 33 4.8b
EIDC VIII 17 23 03 33.2 24.9N 127.6E 37 4.0b,4.3L
ISC VIII 18 04 11 25±2.4 **28.2N**±.20 **130.3E**±.24 **32** 3.5b **7 0-76**
JMA VIII 18 04 11 22.7±.5 28.15N±.03 130.40E±.03 32±4 3.7 **¶97viii2616**
JMA VIII 18 14 44 55.9±.3 **28.15N**±.03 **130.36E**±.02 **30**±4 **3.1** **¶97viii2688**
JMA VIII 18 14 46 31.6±.4 **28.13N**±.02 **130.36E**±.03 **28 3.5** **¶97viii2689**
ISC VIII 19 05 59 53±2.4 **26.2N**±.31 **126.9E**±.22 **64** **4 0-1**
JMA VIII 19 05 59 52.5±.3 26.19N±.02 126.88E±.02 64±3 **¶97viii2766**
ISC Poorly determined
JMA VIII 19 18 23 26.4±.2 **28.29N**±.02 **129.33E**±.01 **56**±2 **2.8** **¶97viii2851**
ISC VIII 21 08 44 46±6.3 **28.1N**±.22 **130.3E**±.51 **31**±21 **5 0-2**
JMA VIII 21 08 44 45.7±.5 28.13N±.02 130.32E±.05 41±4 3.0 **¶97viii3072**
ISC Poorly determined
JMA VIII 21 09 01 46.1±.4 **28.02N**±.04 **129.99E**±.04 **68** **¶97viii3078**
ISC VIII 21 22 41 16.7±.43 **29.25N**±.040 **130.68E**±.053 **51**±6.8 **3.9b**,3.8s **72 1-78**
JMA VIII 21 22 41 17.7±.1 29.34N±.01 130.46E±.03 65 **¶97viii3152**
NEIC VIII 21 22 41 18.9 29.56N 130.55E 45
BJI VIII 21 22 41 21.0 28.95N 130.25E 66 4.5b,3.8s
EIDC VIII 21 22 41 21.2 29.6N 130.3E 47 3.7b,3.6L
NEIC Less reliable solution.
ISC VIII 22 08 57 10.9±.78 **28.16N**±.081 **129.6E**±.10 **29**±9.7 **10 0-3**
JMA VIII 22 08 57 10.9±.1 28.25N±.02 129.52E±.02 34±2 3.6 **¶97viii3202**
ISC VIII 22 12 22 01±1.3 **29.67N**±.099 **130.5E**±.23 **56**±40 **10 1-2**
JMA VIII 22 12 22 00.6±.2 29.68N±.02 130.49E±.03 65 **¶97viii3222**
ISC VIII 22 12 52 57±2.4 **26.4N**±.20 **128.9E**±.19 **46** **8 1-2**
JMA VIII 22 12 52 56.6±.3 26.42N±.02 128.93E±.02 46 3.0 **¶97viii3225**
ISC VIII 22 13 14 04±1.2 **26.4N**±.14 **129.0E**±.10 **35** **5 1-2**
JMA VIII 22 13 14 03.3±.1 26.38N±.01 129.00E±.01 35 2.9 **¶97viii3228**
ISC VIII 22 15 31 16±1.6 **29.9N**±.13 **130.1E**±.33 **67**±27 **7 0-2**
JMA VIII 22 15 31 15.7±.1 29.88N±.01 130.08E±.03 68±2 **¶97viii3246**
ISC VIII 22 17 24 22±1.2 **28.1N**±.19 **129.3E**±.31 **18**±16 **13 0-4**
JMA VIII 22 17 24 21.6±.1 28.14N±.02 129.23E±.02 25±3 3.5 **¶97viii3256**
ISC VIII 22 18 23 00±1.0 **28.2N**±.14 **129.6E**±.18 **27**±13 **6 0-2**
JMA VIII 22 18 22 59.7±.1 28.20N±.01 129.56E±.01 36±2 2.9 **¶97viii3262**
ISC VIII 22 19 25 03±1.6 **29.13N**±.089 **129.6E**±.31 **4** **4 1-1**
JMA VIII 22 19 25 03.3±.0 29.13N±.00 129.54E±.00 4±1 2.8 **¶97viii3268**
ISC Poorly determined
ISC VIII 22 21 56 09±4.9 **26.7N**±.26 **126.3E**±.52 **111** **6 1-3**
JMA VIII 22 21 56 10.1±.5 26.66N±.04 126.33E±.05 111 **¶97viii3295**
ISC VIII 23 00 44 30±1.0 **26.3N**±.10 **129.88E**±.084 **48** **11 1-4**
JMA VIII 23 00 44 29.9±.1 26.27N±.02 129.87E±.01 48 4.0 **¶97viii3311**
ISC VIII 23 13 14 27±2.0 **29.40N**±.098 **130.8E**±.23 **15** **5 1-2**
JMA VIII 23 13 14 26.0±.3 29.36N±.02 130.81E±.03 15 2.9 **¶97viii3407**
ISC VIII 23 19 37 50±2.2 **25.68N**±.044 **128.85E**±.047 **9**±14 **4.4b** **59 1-85**
JMA VIII 23 19 37 52.3±.3 25.71N±.02 128.81E±.02 72 **¶97viii3446**
NEIC VIII 23 19 37 55.0 25.74N 128.94E 46 4.4b
BJI VIII 23 19 37 56.5 25.71N 128.38E 31 4.3b,4.1s
EIDC VIII 23 19 37 57.1 25.7N 128.9E 45 4.0b,3.3L
ISC VIII 23 23 34 49±2.2 **28.2N**±.39 **129.5E**±.67 **21**±19 **6 0-2**
JMA VIII 23 23 34 49.1±.1 28.26N±.02 129.40E±.02 26±3 3.2 **¶97viii3463**
ISC Poorly determined
ISC VIII 25 00 03 14±1.4 **29.12N**±.093 **129.7E**±.32 **16** **4 1-1**
JMA VIII 25 00 03 13.8±.1 29.11N±.00 129.62E±.01 16±3 2.9 **¶97viii3608**
ISC Poorly determined
ISC VIII 25 01 53 37.2±.99 **28.2N**±.13 **129.5E**±.17 **22**±15 **7 0-3**
JMA VIII 25 01 53 37.1±.1 28.18N±.02 129.53E±.02 31±3 3.0 **¶97viii3622**
JMA VIII 25 14 40 38.3±.9 **26.99N**±.07 **129.74E**±.05 **83** **¶97viii3703**
ISC VIII 25 22 23 20±1.7 **29.15N**±.098 **129.6E**±.31 **8** **4 1-1**
JMA VIII 25 22 23 20.3±.2 29.14N±.01 129.52E±.04 8 2.8 **¶97viii3749**
ISC Poorly determined
ISC VIII 26 04 07 08±1.4 **28.84N**±.090 **129.8E**±.27 **14** **4 0-1**
JMA VIII 26 04 07 07.9±.1 28.85N±.01 129.81E±.02 14±4 3.0 **¶97viii3786**
ISC Poorly determined
ISC VIII 26 07 21 07±2.7 **27.7N**±.24 **128.4E**±.26 **7** **4 0-1**
JMA VIII 26 07 21 07.5±.4 27.73N±.02 128.44E±.03 7±5 2.8 **¶97viii3802**
ISC Poorly determined
JMA VIII 26 09 27 49.5±.6 **28.15N**±.03 **130.32E**±.05 **45 2.8** **¶97viii3825**
ISC VIII 26 09 56 50±1.4 **28.61N**±.077 **129.2E**±.19 **38** **7 0-3**
JMA VIII 26 09 56 49.7±.2 28.66N±.01 129.11E±.02 38 2.8 **¶97viii3828**
ISC VIII 26 12 48 29±4.6 **28.7N**±.20 **128.5E**±.56 **107** **4 1-2**
JMA VIII 26 12 48 29.1±.3 28.71N±.02 128.50E±.04 107 **¶97viii3846**
ISC Poorly determined
ISC VIII 26 14 21 34±8.5 **27.9N**±.55 **130.1E**±.73 **63** **4 0-2**
JMA VIII 26 14 21 34.6±.4 27.94N±.03 130.05E±.03 63±3 **¶97viii3860**
ISC Poorly determined
ISC VIII 26 19 21 29±9.1 **28.0N**±.65 **130.8E**±.75 **72** **4 1-3**
JMA VIII 26 19 21 29.0±.2 28.05N±.02 130.79E±.03 72±4 **¶97viii3892**
ISC Poorly determined
ISC VIII 26 21 32 13.1±.23 **27.45N**±.023 **130.30E**±.037 **39**±1.2* **4.6b,4.2s** **135 1-92**
JMA VIII 26 21 32 12.0±.1 27.37N±.01 130.27E±.01 74±4 **¶97viii3907**
BJI VIII 26 21 32 12.6 27.45N 130.22E 32 4.7b,4.3s
NEIC VIII 26 21 32 13.1 27.42N 130.27E 33 5.0b
MOS VIII 26 21 32 14.3 27.4N 130.6E 33 5.0b,4.5s
EIDC VIII 26 21 32 16.0 27.4N 130.4E 41 4.2b,3.8s
ISC VIII 27 01 22 26±1.4 **28.89N**±.091 **129.8E**±.29 **18** **4 1-1**
JMA VIII 27 01 22 26.0±.1 28.89N±.01 129.80E±.03 18 2.9 **¶97viii3925**
ISC Poorly determined
ISC VIII 27 11 04 54±2.8 **26.5N**±.20 **128.2E**±.35 **49** **5 0-1**
JMA VIII 27 11 04 54.5±.4 26.48N±.02 128.21E±.03 49±3 2.8 **¶97viii3981**
ISC VIII 27 13 51 20±4.9 **28.0N**±.24 **130.3E**±.52 **43**±49 **6 0-2**
JMA VIII 27 13 51 20.0±.4 28.03N±.02 130.23E±.04 51±3 3.0 **¶97viii3993**
ISC VIII 27 21 19 42±1.5 **26.7N**±.18 **127.4E**±.17 **60** **5 1-1**
JMA VIII 27 21 19 42.2±.3 26.73N±.01 127.42E±.01 60±4 2.8 **¶97viii4039**
ISC VIII 28 01 43 40±8.1 **28.3N**±.41 **130.3E**±.75 **40** **4 0-2**
JMA VIII 28 01 43 38.1±.2 28.23N±.01 130.40E±.02 40±2 3.2 **¶97viii4073**
ISC Poorly determined
ISC VIII 28 10 58 44±2.0 **28.5N**±.15 **130.3E**±.29 **48**±28 **9 0-3**
JMA VIII 28 10 58 43.0±.3 28.47N±.02 130.42E±.04 54±4 3.1 **¶97viii4118**
ISC VIII 28 17 31 54±2.7 **29.8N**±.10 **130.7E**±.21 **30**±26 **10 1-3**
JMA VIII 28 17 31 53.9±.3 29.78N±.02 130.70E±.03 55 2.9 **¶97viii4168**
ISC VIII 28 21 37 57±1.1 **29.8N**±.13 **129.2E**±.32 **182** **11 1-4**
JMA VIII 28 21 37 57.5±.3 29.79N±.03 129.21E±.07 182 **¶97viii4185**
JMA VIII 29 10 10 38.3±.4 **28.20N**±.04 **130.29E**±.03 **44**±3 **2.8** **¶97viii4275**
ISC VIII 30 06 24 25±1.0 **28.85N**±.083 **129.9E**±.22 **23**±16 **7 1-3**
JMA VIII 30 06 24 25.4±.1 28.85N±.02 129.89E±.04 35±5 3.3 **¶97viii4442**
ISC VIII 30 06 27 05±1.5 **28.86N**±.091 **129.9E**±.29 **15** **4 1-1**
JMA VIII 30 06 27 05.4±.1 28.88N±.01 129.84E±.03 15 3.0 **¶97viii4443**
ISC Poorly determined
ISC VIII 30 19 08 18±1.7 **29.14N**±.099 **129.7E**±.41 **20**±28 **5 1-1**
JMA VIII 30 19 08 17.8±.2 29.14N±.01 129.66E±.06 27 3.1 **¶97viii4527**
ISC Poorly determined
ISC VIII 30 21 40 46±7.1 **28.4N**±.33 **130.3E**±.73 **38** **4 0-1**
JMA VIII 30 21 40 44.5±.5 28.37N±.02 130.47E±.04 38±3 2.8 **¶97viii4538**
ISC Poorly determined
JMA VIII 30 21 55 23.0±.4 **27.87N**±.02 **130.22E**±.03 **30 3.0** **¶97viii4542**
ISC VIII 30 23 03 16±4.3 **27.9N**±.26 **130.1E**±.49 **62** **5 0-2**
JMA VIII 30 23 03 16.3±.3 27.95N±.03 130.03E±.03 62±5 **¶97viii4550**
JMA VIII 31 01 33 54.3±.2 **28.96N**±.01 **129.88E**±.02 **15 2.9** **¶97viii4566**
ISC VIII 31 17 23 02±3.4 **26.9N**±.35 **127.1E**±.30 **81** **4 1-1**
JMA VIII 31 17 23 02.4±.4 26.91N±.03 127.11E±.02 81±4 **¶97viii4683**
ISC Poorly determined
ISC VIII 31 19 06 08±2.3 **27.1N**±.20 **127.2E**±.24 **88** **6 1-2**
JMA VIII 31 19 06 08.0±.3 27.08N±.03 127.26E±.03 88 **¶97viii4695**
ISC IX 01 14 20 06±4.0 **28.1N**±.26 **130.2E**±.28 **32**±15 **7 0-3**
JMA IX 01 14 20 04.3±.3 28.08N±.02 130.33E±.03 40±3 2.8 **¶97ix0113**
JMA IX 01 21 55 32.8±.1 **27.92N**±.01 **130.01E**±.01 **63**±1 **¶97ix0172**
JMA IX 02 03 55 30.1±.7 **28.51N**±.03 **128.54E**±.04 **23 2.8** **¶97ix0217**
JMA IX 02 16 08 54.5±.3 **28.89N**±.02 **129.84E**±.02 **15**±3 **2.8** **¶97ix0298**
JMA IX 02 23 38 44.5±.0 **27.39N**±.00 **130.42E**±.00 **88**±1 **¶97ix0349**
ISC IX 03 09 42 34±1.4 **29.6N**±.10 **130.4E**±.18 **43** **8 1-2**
JMA IX 03 09 42 33.6±.1 29.64N±.01 130.42E±.02 43 3.0 **¶97ix0414**
ISC IX 03 17 42 13±1.9 **27.9N**±.12 **130.2E**±.22 **40** **13 0-4**
JMA IX 03 17 42 11.8±.4 27.91N±.02 130.26E±.04 40±4 3.5 **¶97ix0456**
JMA IX 04 01 52 10.4±.2 **28.29N**±.02 **129.49E**±.01 **35**±2 **2.9** **¶97ix0530**
ISC IX 04 10 10 55±1.2 **27.4N**±.22 **128.7E**±.31 **16** **5 0-2**
JMA IX 04 10 10 55.4±.3 27.40N±.04 128.76E±.06 16 3.2 **¶97ix0574**
ISC IX 05 02 22 09±6.1 **29.23N**±.091 **130.1E**±.28 **14**±55 **8 1-3**
JMA IX 05 02 22 09.4±.1 29.19N±.01 130.18E±.03 47 3.2 **¶97ix0670**
JMA IX 05 03 01 10.3±.1 **29.85N**±.01 **129.95E**±.03 **63**±3 **¶97ix0676**
ISC IX 05 09 09 47±1.0 **26.42N**±.076 **127.7E**±.11 **14** **5 0-1**
JMA IX 05 09 09 47.0±.1 26.42N±.01 127.65E±.01 14 2.8 **¶97ix0724**
JMA IX 05 23 11 17.6±.5 **28.36N**±.04 **129.41E**±.02 **37**±4 **2.8** **¶97ix0809**
ISC IX 06 09 35 36±3.1 **26.45N**±.059 **129.98E**±.065 **9**±22 **4.0b**,3.7s **22 1-92**
BJI IX 06 09 35 35.0 26.19N 130.29E 41 4.1b **¶97ix0898**
JMA IX 06 09 35 37.7±.1 26.44N±.01 129.95E±.01 49 3.9
NEIC IX 06 09 35 39.0 26.50N 130.42E 33
EIDC IX 06 09 35 43.1 26.5N 130.1E 50 3.6b
NEIC Single network solution.
ISC IX 06 15 29 51±1.3 **26.0N**±.18 **128.6E**±.10 **60** **6 1-2**
JMA IX 06 15 29 50.3±.1 26.04N±.01 128.65E±.01 60±4 3.0 **¶97ix0937**
JMA IX 06 23 27 35.4±.4 **28.25N**±.03 **130.33E**±.03 **40**±3 **2.9** **¶97ix0987**
ISC IX 08 02 10 48±1.3 **27.3N**±.10 **130.4E**±.15 **57** **6 1-2**
JMA IX 08 02 10 47.9±.2 27.29N±.02 130.34E±.03 57 3.0 **¶97ix1156**
ISC IX 08 09 02 41±1.2 **29.00N**±.095 **129.6E**±.28 **49** **6 1-3**
JMA IX 08 09 02 40.7±.1 29.01N±.01 129.60E±.03 49±5 3.4 **¶97ix1201**
ISC IX 08 12 10 45±1.4 **27.6N**±.14 **129.1E**±.17 **24** **5 0-1**
JMA IX 08 12 10 45.4±.2 27.57N±.02 129.13E±.03 24 2.8 **¶97ix1218**
ISC IX 08 12 46 52±1.4 **28.02N**±.067 **130.2E**±.11 **29**±13 **14 0-5**
JMA IX 08 12 46 51.9±.2 28.01N±.01 130.21E±.02 38±3 3.3 **¶97ix1221**
ISC IX 08 13 37 12±5.9 **28.2N**±.39 **130.8E**±.55 **92** **5 1-2**
JMA IX 08 13 37 09.7±.4 28.10N±.03 131.02E±.03 92 **¶97ix1226**
ISC IX 08 23 54 52±1.5 **25.4N**±.15 **128.4E**±.11 **62** **6 1-3**
JMA IX 08 23 54 53.2±.5 25.46N±.04 128.36E±.04 62 **¶97ix1299**
ISC IX 09 03 46 43±1.9 **28.6N**±.19 **129.5E**±.20 **23**±20 3.5b **6 0-76**
JMA IX 09 03 46 42.4±.3 28.66N±.01 129.46E±.01 13±3 3.2 **¶97ix1318**
ISC IX 09 06 30 56±1.1 **28.2N**±.13 **129.5E**±.13 **29** **5 0-3**
JMA IX 09 06 30 55.7±.4 28.31N±.05 129.38E±.02 29±4 2.8 **¶97ix1333**
ISC IX 09 09 20 51±2.6 **28.5N**±.23 **129.4E**±.26 **20**±31 **5 0-3**
JMA IX 09 09 20 50.0±.2 28.50N±.02 129.32E±.02 25±3 3.1 **¶97ix1348**
ISC Poorly determined
ISC IX 09 12 21 24.4±.91 **27.0N**±.11 **128.3E**±.14 **29**±9.5 **10 0-5**
JMA IX 09 12 21 24.2±.2 26.94N±.02 128.38E±.03 29±3 3.1 **¶97ix1375**

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
JMA	**IX**	**09 13 42 46.7**±.6	**26.33N**±.04	**126.65E**±.04	**12**±2	**3.0**		**¶97ix1384**	
ISC	**IX**	**11 02 46 58**±1.6	**27.4N**±.27	**128.7E**±.35	**18**		**4**	**0-1**	
JMA	IX	11 02 46 57.2±.1	27.34N±.01	128.83E±.02	18	3.0		**¶97ix1620**	
ISC	Poorly determined								
ISC	**IX**	**11 21 22 24.6**±.98	**28.99N**±.086	**129.6E**±.21	**44**±62		**11**	**1-4**	
JMA	IX	11 21 22 24.2±.1	28.99N±.01	129.62E±.03	55±4	3.1		**¶97ix1736**	
JMA	**IX**	**12 18 23 31.4**±.4	**28.23N**±.04	**130.38E**±.03	**44**±4	**3.0**		**¶97ix1857**	
ISC	**IX**	**13 06 32 44.3**±.81	**26.84N**±.092	**127.3E**±.13	**100**±8.2	**3.5b**	**13**	**1-84**	
EIDC	IX	13 06 32 29.7	27.8N	130.1E	0	3.6b		**¶97ix1937**	
NEIC	IX	13 06 32 32.8	27.75N	130.14E	33				
JMA	IX	13 06 32 44.7±.2	26.92N±.02	127.19E±.02	85±4				
NEIC	Single network solution.								
ISC	**IX**	**16 18 30 01**±1.2	**29.39N**±.095	**130.2E**±.23	**75**±29		**10**	**1-4**	
JMA	IX	16 18 30 00.8±.2	29.38N±.02	130.22E±.04	76±4			**¶97ix2416**	
ISC	**IX**	**17 06 29 11**±1.5	**28.84N**±.085	**129.9E**±.24	**6**		**4**	**0-1**	
JMA	IX	17 06 29 11.7±.1	28.84N±.01	129.87E±.02	6	3.1		**¶97ix2476**	
ISC	Poorly determined								
ISC	**IX**	**17 17 03 06**±2.9	**27.5N**±.29	**127.8E**±.31	**71**±51		**7**	**0-2**	
JMA	IX	17 17 03 05.7±.2	27.49N±.02	127.86E±.02	74±3			**¶97ix2535**	
JMA	**IX**	**18 22 32 29.2**±.1	**29.30N**±.00	**129.25E**±.02	**88**±1			**¶97ix2719**	
ISC	**IX**	**19 14 57 22**±1.0	**27.12N**±.072	**130.02E**±.097	**68**±37		**14**	**1-5**	
JMA	IX	19 14 57 22.0±.1	27.13N±.01	130.03E±.01	66			**¶97ix2803**	
JMA	**IX**	**19 15 33 35.1**±.1	**28.60N**±.01	**130.09E**±.01	**25**±1	**2.8**		**¶97ix2806**	
ISC	**IX**	**19 18 34 37**±6.1	**26.1N**±.52	**127.4E**±.15	**48**±54		**7**	**0-3**	
JMA	IX	19 18 34 36.7±.4	26.09N±.04	127.42E±.02	50±4	3.1		**¶97ix2826**	
ISC	**IX**	**20 04 19 50.5**±.76	**27.92N**±.063	**130.1E**±.11	**47**±23		**17**	**0-5**	
JMA	IX	20 04 19 50.0±.2	27.93N±.01	130.10E±.02	55±3	3.6		**¶97ix2897**	
JMA	**IX**	**20 09 24 27.2**±.4	**28.22N**±.04	**130.27E**±.03	**42**±4	**3.1**		**¶97ix2922**	
JMA	**IX**	**20 09 31 05.9**±.2	**28.62N**±.01	**129.52E**±.00	**0**	**3.0**		**¶97ix2923**	
JMA	**IX**	**20 10 12 52.0**±.2	**28.20N**±.02	**129.49E**±.01	**34**±3	**2.8**		**¶97ix2926**	
ISC	**IX**	**20 10 17 00**±4.5	**27.7N**±.47	**128.6E**±.61	**32**±30		**5**	**0-2**	
JMA	IX	20 10 16 59.8±.7	27.73N±.07	128.55E±.08	27	2.9		**¶97ix2927**	
ISC	Poorly determined								
ISC	**IX**	**21 15 43 44**±1.7	**29.54N**±.087	**131.0E**±.22	**42**		**11**	**1-4**	
JMA	IX	21 15 43 42.7±.2	29.53N±.01	131.05E±.02	42	2.8		**¶97ix3122**	
ISC	**IX**	**21 15 53 33**±3.1	**26.3N**±.18	**127.0E**±.20	**85**±26		**13**	**0-6**	
JMA	IX	21 15 53 34.1±.2	26.49N±.02	126.99E±.03	66			**¶97ix3123**	
ISC	**IX**	**21 23 13 44**±3.5	**25.3N**±.29	**127.8E**±.19	**58**		**7**	**1-3**	
JMA	IX	21 23 13 44.7±.4	25.30N±.03	127.80E±.02	58	3.3		**¶97ix3182**	
ISC	**IX**	**22 05 45 20**±1.4	**28.84N**±.084	**129.9E**±.18	**8**±15		**11**	**1-3**	
JMA	IX	22 05 45 20.4±.1	28.87N±.01	129.89E±.04	19	3.3		**¶97ix3225**	
ISC	**IX**	**23 04 34 34**±2.6	**28.3N**±.20	**130.2E**±.27	**33**±13		**8**	**0-3**	
JMA	IX	23 04 34 33.3±.3	28.22N±.02	130.26E±.03	42±2	3.0		**¶97ix3373**	
ISC	**IX**	**23 21 24 43**±2.0	**28.69N**±.066	**129.4E**±.13	**13**±17		**14**	**0-4**	
JMA	IX	23 21 24 43.5±.1	28.69N±.01	129.42E±.02	24	3.4		**¶97ix3480**	
ISC	**IX**	**23 22 49 30**±1.6	**28.69N**±.091	**129.4E**±.18	**12**		**4**	**0-1**	
JMA	IX	23 22 49 30.5±.2	28.69N±.01	129.42E±.02	12±5	2.9		**¶97ix3492**	
ISC	Poorly determined								
ISC	**IX**	**24 11 22 07**±1.6	**29.22N**±.094	**130.6E**±.24	**68**±36		**10**	**1-4**	
JMA	IX	24 11 22 06.7±.2	29.21N±.01	130.55E±.03	64			**¶97ix3572**	
ISC	**IX**	**24 13 38 58**±5.9	**28.3N**±.25	**130.5E**±.67	**46**±59		**7**	**0-4**	
JMA	IX	24 13 38 56.9±.5	28.26N±.03	130.53E±.05	47	3.1		**¶97ix3584**	
ISC	**IX**	**24 21 00 02**±1.5	**29.0N**±.12	**130.3E**±.26	**64**±30		**9**	**1-4**	
JMA	IX	24 21 00 01.3±.2	28.98N±.01	130.32E±.04	65±5			**¶97ix3634**	
ISC	**IX**	**24 21 01 19**±7.3	**27.2N**±.31	**130.0E**±.70	**67**		**7**	**1-3**	
JMA	IX	24 21 01 19.7±.2	27.19N±.01	129.95E±.02	67			**¶97ix3635**	
ISC	**IX**	**24 21 54 55**±1.4	**29.25N**±.088	**130.5E**±.23	**71**±31		**12**	**1-4**	
JMA	IX	24 21 54 54.5±.2	29.24N±.01	130.51E±.04	70			**¶97ix3639**	
ISC	**IX**	**25 10 05 50**±1.0	**27.13N**±.084	**130.0E**±.10	**59**		**9**	**1-3**	
JMA	IX	25 10 05 49.7±.1	27.11N±.01	130.03E±.01	59	3.5		**¶97ix3719**	
JMA	**IX**	**25 11 59 25.0**±.4	**28.21N**±.04	**130.32E**±.03	**42**±4	**3.0**		**¶97ix3734**	
ISC	**IX**	**25 16 52 52**±1.7	**29.4N**±.10	**130.6E**±.28	**73**		**6**	**1-2**	
JMA	IX	25 16 52 52.3±.1	29.35N±.01	130.60E±.02	73			**¶97ix3764**	
ISC	**IX**	**25 22 10 48**±2.4	**29.5N**±.13	**129.6E**±.37	**61**±42		**6**	**0-2**	
JMA	IX	25 22 10 47.9±.2	29.50N±.02	129.59E±.05	64±4			**¶97ix3797**	
ISC	**IX**	**26 00 14 28**±3.4	**27.9N**±.34	**129.5E**±.31	**37**		**4**	**1-2**	
JMA	IX	26 00 14 28.1±.1	27.92N±.01	129.52E±.01	37±2	2.9		**¶97ix3811**	
ISC	Poorly determined								
ISC	**IX**	**26 00 25 42.8**±.79	**27.83N**±.070	**130.25E**±.067	**37**±9.7	**3.9b**	**55**	**1-72**	
NEIC	IX	26 00 25 39.8	27.57N	130.59E	33			**¶97ix3812**	
JMA	IX	26 00 25 43.6±.2	27.91N±.02	130.09E±.03	56±3	3.7			
EIDC	IX	26 00 25 46.9	27.5N	130.2E	74	3.7b			
NEIC	Single network solution.								
ISC	**IX**	**26 08 57 12.2**±.95	**27.94N**±.079	**130.1E**±.12	**54**±26		**12**	**0-4**	
JMA	IX	26 08 57 11.9±.2	27.95N±.02	130.10E±.03	58±3	3.4		**¶97ix3928**	
ISC	**IX**	**26 10 55 37**±1.0	**27.11N**±.083	**130.0E**±.10	**50**		**8**	**1-3**	
JMA	IX	26 10 55 36.4±.1	27.10N±.01	130.02E±.01	50	3.3		**¶97ix3959**	
ISC	**IX**	**26 16 45 35**±4.5	**28.3N**±.29	**130.9E**±.45	**64**±62		**9**	**1-4**	
JMA	IX	26 16 45 34.3±.3	28.29N±.02	130.87E±.03	77±5			**¶97ix4080**	
JMA	**IX**	**28 04 51 39.1**±.0	**28.27N**±.01	**129.54E**±.01	**22**	**2.8**		**¶97ix4542**	
ISC	**IX**	**28 06 07 50**±1.1	**26.6N**±.14	**128.0E**±.20	**46**		**5**	**0-1**	
JMA	IX	28 06 07 50.1±.4	26.59N±.01	127.96E±.03	46±5	2.9		**¶97ix4561**	
ISC	**IX**	**28 06 39 05**±4.7	**29.8N**±.27	**129.4E**±.66	**146**±48		**6**	**0-2**	
JMA	IX	28 06 39 05.7±.2	29.59N±.03	129.71E±.07	148			**¶97ix4567**	
ISC	**IX**	**28 13 13 31.2**±.53	**28.92N**±.053	**129.8E**±.13	**48**		**15**	**1-4**	
JMA	IX	28 13 13 30.9±.1	28.97N±.01	129.66E±.03	48	3.4		**¶97ix4656**	
ISC	**IX**	**28 13 52 43.9**±.98	**28.2N**±.13	**129.5E**±.17	**20**±16		**6**	**0-2**	
JMA	IX	28 13 52 43.7±.1	28.26N±.01	129.47E±.02	27±2	2.9		**¶97ix4658**	
ISC	**IX**	**28 21 47 48**±1.2	**27.49N**±.088	**130.2E**±.12	**62**		**8**	**1-3**	
JMA	IX	28 21 47 47.5±.2	27.45N±.02	130.20E±.02	62			**¶97ix4766**	
JMA	**IX**	**29 08 33 28.8**±.0	**27.74N**±.00	**128.53E**±.00	**13**±	**2.8**		**¶97ix4912**	
ISC	**IX**	**29 21 14 43**±3.7	**27.2N**±.25	**127.4E**±.27	**81**±57		**6**	**1-2**	
JMA	IX	29 21 14 43.6±.3	27.16N±.03	127.41E±.03	80±4			**¶97ix5024**	
ISC	**IX**	**29 22 03 00**±2.0	**26.3N**±.23	**126.9E**±.21	**64**		**5**	**0-1**	
JMA	IX	29 22 03 00.0±.2	26.36N±.01	126.90E±.01	64±2			**¶97ix5038**	
ISC	**IX**	**29 23 42 26**±3.5	**28.6N**±.26	**128.3E**±.16	**0**		**4**	**1-3**	
JMA	IX	29 23 42 24.6±.2	28.68N±.01	128.27E±.01	0	3.0		**¶97ix5061**	
ISC	Poorly determined								
ISC	**IX**	**30 11 03 45**±5.6	**26.7N**±.39	**126.5E**±.53	**82**		**5**	**0-4**	
JMA	IX	30 11 03 45.5±.6	26.67N±.05	126.54E±.05	82			**¶97ix5210**	
ISC	Poorly determined								
JMA	**IX**	**30 12 17 30.3**±.5	**25.82N**±.03	**127.17E**±.01	**16**±4	**2.8**		**¶97ix5224**	
JMA	**IX**	**30 18 17 37.2**±.4	**27.28N**±.03	**129.79E**±.04	**90**	**2.3**		**¶97ix5287**	
ISC	**IX**	**30 19 03 03**±1.3	**26.0N**±.18	**128.6E**±.10	**56**		**6**	**1-2**	
JMA	IX	30 19 03 02.7±.2	26.01N±.02	128.64E±.02	56	2.8		**¶97ix5295**	
ISC	**IX**	**30 21 19 13**±1.1	**27.78N**±.083	**130.0E**±.11	**58**±28		**10**	**1-3**	
JMA	IX	30 21 19 12.5±.2	27.81N±.02	130.03E±.02	67±4	3.3		**¶97ix5312**	
ISC	**X**	**01 03 03 55**±1.8	**26.7N**±.21	**127.1E**±.23	**75**		**5**	**0-2**	
JMA	X	01 03 03 54.9±.2	26.68N±.02	127.12E±.02	75	2.9		**¶97x0016**	
ISC	**X**	**01 13 23 19**±1.8	**29.4N**±.11	**130.2E**±.32	**71**±49		**7**	**1-2**	
JMA	X	01 13 23 19.4±.1	29.39N±.01	130.42E±.03	52±5	2.9		**¶97x0093**	
ISC	**X**	**01 15 40 27**±1.8	**26.93N**±.094	**129.5E**±.10	**79**±53		**9**	**1-3**	
JMA	X	01 15 40 26.6±.1	26.87N±.01	129.51E±.01	34	3.3		**¶97x0112**	
ISC	**X**	**01 16 49 33.9**±.56	**29.28N**±.043	**130.80E**±.051	**40**±6.6	**4.0b,4.2s**	**72**	**1-84**	
JMA	X	01 16 49 34.8±.1	29.33N±.01	130.55E±.02	66±4	3.7		**¶97x0124**	
NEIC	X	01 16 49 36.8	29.26N	130.55E	67	4.1b			
BJI	X	01 16 49 38.5	29.04N	130.42E	74	4.4b,4.2s			
EIDC	X	01 16 49 39.0	29.3N	130.3E	68	3.6b			
NEIC	Less reliable solution.								
ISC	**X**	**02 02 11 08**±2.3	**29.3N**±.15	**130.6E**±.31	**33**		**4**	**1-2**	
JMA	X	02 02 11 06.9±.1	29.26N±.01	130.71E±.02	33	2.9		**¶97x0189**	
ISC	Poorly determined								
ISC	**X**	**02 02 18 10**±1.5	**29.3N**±.10	**130.6E**±.20	**25**		**6**	**1-2**	
JMA	X	02 02 18 08.6±.2	29.25N±.01	130.71E±.02	25	3.3		**¶97x0190**	
ISC	**X**	**02 02 28 23**±2.3	**29.2N**±.10	**130.7E**±.25	**3**		**5**	**1-2**	
JMA	X	02 02 28 23.3±.4	29.22N±.01	130.74E±.03	3±4	2.8		**¶97x0193**	
JMA	**X**	**02 05 12 56.9**±.0	**28.72N**±.00	**129.03E**±.01	**67**	**3.1**		**¶97x0212**	
JMA	**X**	**02 11 30 12.3**±.3	**29.31N**±.01	**130.72E**±.02	**1**±3	**3.0**		**¶97x0270**	
JMA	**X**	**02 11 38 09.4**±.2	**29.38N**±.01	**130.43E**±.03	**55**	**2.9**		**¶97x0274**	
ISC	**X**	**03 06 40 21**±1.3	**28.2N**±.21	**129.5E**±.20	**26**		**4**	**0-2**	
JMA	X	03 06 40 21.3±.1	28.20N±.02	129.52E±.02	26	3.1		**¶97x0412**	
ISC	Poorly determined								
ISC	**X**	**03 06 41 01**±1.3	**28.3N**±.16	**129.5E**±.20	**40**		**4**	**0-2**	
JMA	X	03 06 41 00.9±.0	28.34N±.01	129.45E±.01	40±1	2.8		**¶97x0413**	
ISC	Poorly determined								
ISC	**X**	**03 20 08 51**±3.0	**27.6N**±.18	**128.0E**±.20	**111**±33		**8**	**1-3**	
JMA	X	03 20 08 51.9±.3	27.74N±.02	127.91E±.03	88	3.3		**¶97x0519**	
JMA	**X**	**03 22 44 40.6**±.3	**28.29N**±.02	**130.37E**±.03	**37**±2	**2.8**		**¶97x0538**	
ISC	**X**	**04 16 29 40**±2.9	**25.2N**±.26	**128.4E**±.14	**55**		**6**	**1-3**	
JMA	X	04 16 29 40.0±.6	25.24N±.05	128.39E±.03	55	2.8		**¶97x0685**	
ISC	**X**	**04 16 41 53.6**±.75	**29.13N**±.073	**129.9E**±.22	**40**		**9**	**1-3**	
JMA	X	04 16 41 53.2±.1	29.11N±.01	130.06E±.03	40±4	3.1		**¶97x0690**	
ISC	**X**	**04 20 25 15.6**±.67	**28.13N**±.041	**130.31E**±.063	**36**±6.5	**4.2b,4.1s**	**46**	**0-85**	
JMA	X	04 20 25 14.5±.2	28.10N±.01	130.42E±.02	39±3	4.2		**¶97x0721**	
BJI	X	04 20 25 14.8	27.88N	130.48E	53	4.3b,4.4s			
NEIC	X	04 20 25 15.5	28.17N	130.32E	33	4.3b			
EIDC	X	04 20 25 20.1	28.2N	130.3E	55	3.9b,3.8L			
JMA	Felt I=II J1								
ISC	**X**	**04 20 29 29**±1.4	**28.11N**±.055	**130.32E**±.097	**32**±11	**3.8b**	**19**	**0-72**	
JMA	X	04 20 29 27.8±.2	28.10N±.01	130.40E±.01	39±2	3.8		**¶97x0722**	
NEIC	X	04 20 29 28.9	28.13N	130.33E	33	3.8b			
EIDC	X	04 20 29 32.7	28.2N	130.2E	48	3.5b,3.6L			
NEIC	Less reliable solution.								
ISC	**X**	**04 20 35 51**±1.8	**28.07N**±.082	**130.3E**±.13	**25**±17		**10**	**0-4**	
JMA	X	04 20 35 50.1±.2	28.06N±.01	130.39E±.02	34±3	3.3		**¶97x0724**	
ISC	**X**	**04 20 46 32**±1.5	**28.12N**±.066	**130.3E**±.11	**29**±11	**3.7b**	**14**	**0-72**	
EIDC	X	04 20 46 29.7	28.3N	130.5E	0	3.7b		**¶97x0727**	
JMA	X	04 20 46 31.0±.2	28.10N±.01	130.39E±.02	39±3	3.5			
JMA	**X**	**04 20 58 25.4**±.2	**28.09N**±.01	**130.44E**±.01	**34**±2	**2.8**		**¶97x0729**	
ISC	**X**	**04 21 11 45**±2.1	**28.1N**±.13	**130.3E**±.22	**34**		**8**	**0-4**	
JMA	X	04 21 11 43.0±.4	28.04N±.02	130.38E±.03	34	3.1		**¶97x0731**	
JMA	**X**	**04 21 18 37.1**±.5	**28.14N**±.03	**130.37E**±.04	**40**±4	**2.8**		**¶97x0734**	
ISC	**X**	**04 21 34 48**±2.4	**28.1N**±.15	**130.3E**±.25	**39**		**9**	**0-4**	
JMA	X	04 21 34 46.4±.5	28.09N±.02	130.41E±.03	39±4	3.0		**¶97x0737**	
JMA	**X**	**04 21 48 08.1**±.3	**28.11N**±.02	**130.42E**±.02	**38**±3	**3.0**		**¶97x0740**	
ISC	**X**	**04 22 14 35**±2.1	**28.1N**±.13	**130.2E**±.21	**29**		**7**	**0-4**	
JMA	X	04 22 14 33.7±.4	28.07N±.02	130.37E±.03	29	2.9		**¶97x0747**	
JMA	**X**	**04 23 26 09.7**±.5	**28.13N**±.03	**130.35E**±.04	**37**±4	**2.8**		**¶97x0761**	
JMA	**X**	**04 23 34 33.6**±.5	**27.17N**±.02	**130.26E**±.04	**74**	**2.7**		**¶97x0762**	
ISC	**X**	**05 01 03 40**±1.3	**28.2N**±.16	**129.6E**±.18	**33**		**4**	**0-2**	
JMA	X	05 01 03 40.1±.1	28.30N±.01	129.54E±.01	33±2	3.4		**¶97x0772**	
ISC	Poorly determined								
JMA	**X**	**05 01 06 31.8**±.4	**25.51N**±.03	**128.14E**±.02	**68**±4	**3.1**		**¶97x0774**	
ISC	**X**	**05 09 02 33**±6.5	**27.6N**±.61	**127.6E**±.30	**98**		**5**	**1-1**	
JMA	X	05 09 02 34.1±.4	27.53N±.03	127.66E±.03	98±4			**¶97x0840**	
JMA	**X**	**06 04 41 39.8**±.2	**28.07N**±.02	**130.42E**±.02	**38**±2	**2.9**		**¶97x0988**	
ISC	**X**	**06 04 44 54.0**±.86	**28.12N**±.057	**130.28E**±.092	**37**±9.0	**3.8b**,3.8s	**19**	**0-72**	
BJI	X	06 04 44 52.9	28.10N	130.30E	26	4.2s		**¶97x0989**	
NEIC	X	06 04 44 52.9	28.12N	130.27E	26	3.9b			
JMA	X	06 04 44 53.0±.2	28.10N±.01	130.41E±.01	38±2	3.7			
EIDC	X	06 04 44 54.9	28.1N	130.3E	25	3.6b,3.7L			
NEIC	Less reliable solution.								
JMA	**X**	**06 06 13 41.1**±.1	**28.13N**±.01	**130.43E**±.01	**32**±1	**2.8**		**¶97x1004**	
JMA	**X**	**06 10 14 18.4**±.2	**28.12N**±.01	**130.42E**±.02	**36**±2	**2.9**		**¶97x1027**	
ISC	**X**	**06 10 48 03**±3.5	**28.1N**±.17	**130.3E**±.28	**31**±17		**8**	**0-3**	
JMA	X	06 10 48 01.3±.2	28.11N±.01	130.43E±.02	38±3	3.4		**¶97x1030**	
ISC	**X**	**06 19 40 24.3**±.90	**26.67N**±.082	**129.53E**±.084	**51**		**10**	**1-3**	
JMA	X	06 19 40 24.0±.2	26.66N±.01	129.53E±.01	51	3.5		**¶97x1109**	
ISC	**X**	**06 19 54 47**±7.8	**26.7N**±.35	**129.4E**±.69	**67**		**5**	**1-2**	
JMA	X	06 19 54 47.0±.4	26.71N±.02	129.46E±.03	67	2.7		**¶97x1111**	
ISC	**X**	**06 22 02 17**±1.0	**26.4N**±.12	**128.78E**±.091	**47**		**8**	**1-2**	
JMA	X	06 22 02 16.4±.4	26.39N±.03	128.79E±.03	47	3.4		**¶97x1125**	
ISC	**X**	**06 22 04 38**±1.1	**26.4N**±.12	**128.79E**±.096	**34**		**6**	**1-2**	
JMA	X	06 22 04 37.3±.4	26.37N±.03	128.81E±.03	34	3.0		**¶97x1126**	
ISC	**X**	**07 00 52 41**±2.5	**29.3N**±.16	**130.7E**±.35	**63**		**4**	**1-2**	
JMA	X	07 00 52 41.0±.1	29.33N±.01	130.71E±.02	63	3.3		**¶97x1149**	
ISC	Poorly determined								
ISC	**X**	**07 15 00 48.3**±.73	**28.19N**±.049	**130.22E**±.085	**43**±6.7	**4.0b**,4.3s	**33**	**0-78**	
EIDC	X	07 15 00 44.3	28.3N	130.2E	0	4.0b,3.8L		**¶97x1270**	
JMA	X	07 15 00 46.2±.3	28.09N±.01	130.41E±.02	39±3	3.9			
NEIC	X	07 15 00 46.6	28.32N	130.28E	33	4.3b			
BJI	X	07 15 00 47.6	28.30N	130.30E	33	4.1b,4.2s			
JMA	Felt I=II J1								
NEIC	Less reliable solution.								
JMA	**X**	**07 16 36 29.5**±.2	**27.94N**±.02	**130.13E**±.02	**61**	**2.4**		**¶97x1277**	
ISC	**X**	**07 21 27 38**±3.0	**26.5N**±.16	**126.7E**±.31	**71**		**7**	**0-3**	
JMA	X	07 21 27 38.4±.6	26.47N±.03	126.73E±.03	71±4	3.3		**¶97x1305**	
JMA	**X**	**08 01 00 49.8**±.4	**29.55N**±.02	**130.65E**±.05	**25**	**2.9**		**¶97x1331**	
JMA	**X**	**08 10 44 15.9**±.3	**27.91N**±.02	**130.16E**±.02	**53**	**2.8**		**¶97x1396**	
ISC	**X**	**08 14 38 04**±4.6	**28.2N**±.31	**130.3E**±.37	**32**±15		**6**	**0-3**	
JMA	X	08 14 38 02.4±.3	28.20N±.02	130.37E±.02	38±2	3.4		**¶97x1430**	
ISC	**X**	**10 00 50 05**±2.1	**25.5N**±.20	**128.5E**±.11	**50**		**7**	**1-2**	
JMA	X	10 00 50 05.6±.5	25.59N±.04	128.52E±.03	50	3.1		**¶97x1670**	
ISC	**X**	**10 14 15 31.1**±.90	**27.90N**±.070	**130.2E**±.13	**60**±25		**12**	**0-5**	
JMA	X	10 14 15 31.6±.2	27.90N±.02	130.13E±.03	57±2	3.1		**¶97x1757**	
ISC	**X**	**11 01 33 37**±4.1	**29.2N**±.14	**129.4E**±.55	**20**±42		**5**	**1-2**	
JMA	X	11 01 33 37.4±.2	29.25N±.01	129.35E±.03	29±4	2.8		**¶97x1824**	
ISC	Poorly determined								

ISC	**X**	**11 03 53 18**±6.8	**27.9N**±.36	**130.1E**±.67	**55**		**4**	**0-2**	
JMA	X	11 03 53 18.2±.2	27.91N±.02	130.13E±.02	55±2	2.8			¶97x1841
ISC	Poorly determined								
ISC	**X**	**11 08 29 16**±2.7	**28.3N**±.19	**130.3E**±.32	**34**±34		**6**	**0-2**	
JMA	X	11 08 29 14.5±.1	28.23N±.01	130.32E±.01	41±1	3.3			¶97x1865
JMA	**X**	**11 20 41 01.7**±.8	**26.80N**±.04	**129.67E**±.05	**60**	**2.6**			¶97x1939
ISC	**X**	**13 08 11 05**±1.2	**26.67N**±.087	**128.13E**±.094	**13**±11		**9**	**0-3**	
JMA	X	13 08 11 05.1±.1	26.71N±.01	128.08E±.01	19±1	3.7			¶97x2186
ISC	**X**	**13 08 39 02**±1.3	**26.71N**±.082	**128.1E**±.10	**15**±12		**8**	**0-3**	
JMA	X	13 08 39 02.7±.1	26.71N±.01	128.08E±.01	17±2	3.2			¶97x2191
ISC	**X**	**13 19 00 34**±1.1	**28.82N**±.080	**129.9E**±.20	**21**±16		**8**	**0-2**	
JMA	X	13 19 00 34.2±.1	28.82N±.01	129.87E±.03	32±3	3.7			¶97x2268
ISC	**X**	**14 10 43 48.9**±.83	**28.2N**±.12	**129.5E**±.17	**27**±12		**8**	**0-3**	
JMA	X	14 10 43 48.6±.0	28.22N±.01	129.47E±.01	37±1	3.7			¶97x2381
JMA	Felt I=II J1								
ISC	**X**	**14 11 45 42**±1.5	**28.3N**±.28	**129.5E**±.26	**35**		**4**	**0-2**	
JMA	X	14 11 45 42.5±.0	28.22N±.01	129.47E±.01	35±1	2.8			¶97x2395
ISC	Poorly determined								
ISC	**X**	**14 20 00 55**±1.3	**28.86N**±.096	**130.0E**±.32	**35**		**5**	**1-2**	
JMA	X	14 20 00 54.6±.1	28.89N±.01	129.93E±.03	35	2.8			¶97x2484
ISC	**X**	**14 20 31 16**±2.2	**28.0N**±.18	**130.1E**±.26	**54**		**9**	**0-4**	
JMA	X	14 20 31 15.8±.2	27.92N±.02	130.11E±.02	54±2	2.8			¶97x2488
ISC	**X**	**15 15 03 20**±2.8	**26.8N**±.17	**127.7E**±.19	**60**±41		**6**	**0-2**	
JMA	X	15 15 03 19.8±.2	26.80N±.01	127.66E±.02	59±3	3.2			¶97x2664
ISC	**X**	**15 16 27 14**±1.3	**29.49N**±.081	**130.3E**±.24	**67**±34		**9**	**0-2**	
JMA	X	15 16 27 13.8±.2	29.46N±.01	130.36E±.04	68	3.3			¶97x2675
ISC	**X**	**15 16 38 33**±1.4	**29.5N**±.11	**130.3E**±.28	**62**±37		**8**	**1-2**	
JMA	X	15 16 38 32.5±.1	29.41N±.01	130.46E±.02	55	2.8			¶97x2677
ISC	**X**	**15 23 26 36**±1.7	**28.3N**±.20	**128.6E**±.26	**68**±55		**7**	**1-3**	
JMA	X	15 23 26 35.5±.2	28.33N±.02	128.56E±.03	74	3.1			¶97x2743
ISC	**X**	**16 02 53 48**±1.5	**28.1N**±.26	**129.0E**±.50	**77**		**4**	**0-2**	
JMA	X	16 02 53 47.5±.1	28.16N±.02	128.97E±.04	77	2.5			¶97x2776
ISC	Poorly determined								
ISC	**X**	**16 05 55 47**±3.6	**28.4N**±.39	**128.6E**±.31	**99**		**6**	**1-3**	
JMA	X	16 05 55 47.3±.5	28.37N±.04	128.58E±.04	99				¶97x2798
ISC	**X**	**16 12 16 01**±5.1	**27.2N**±.40	**127.7E**±.16	**17**		**5**	**0-1**	
JMA	X	16 12 16 02.3±.2	27.10N±.02	127.67E±.01	17±3	2.8			¶97x2834
ISC	Poorly determined								
ISC	**X**	**16 13 24 46**±9.4	**26.7N**±.34	**129.6E**±.78	**38**		**5**	**1-3**	
JMA	X	16 13 24 46.3±.6	26.69N±.02	129.51E±.04	38	2.9			¶97x2843
ISC	**X**	**16 21 38 06.2**±.78	**29.13N**±.052	**130.3E**±.11	**51**±7.5	**4.1b,4.2s**	**27**	**1-84**	
BJI	X	16 21 37 58.2	28.74N	130.92E	33	4.5b,4.2s			¶97x2883
NEIC	X	16 21 38 03.9	29.16N	130.43E	33	4.0b			
JMA	X	16 21 38 06.2±.1	29.14N±.01	130.22E±.03	58	4.1			
EIDC	X	16 21 38 14.4	28.9N	129.2E	99	3.6b,4.1s			
NEIC	Less reliable solution.								
ISC	**X**	**16 23 47 22**±1.7	**29.7N**±.15	**130.5E**±.28	**51**		**5**	**1-2**	
JMA	X	16 23 47 21.9±.1	29.69N±.01	130.53E±.02	51	2.8			¶97x2900
ISC	Poorly determined								
ISC	**X**	**17 00 47 31**±3.8	**29.4N**±.24	**129.4E**±.65	**86**±48		**6**	**1-2**	
JMA	X	17 00 47 30.8±.2	29.36N±.01	129.44E±.04	89±4	2.7			¶97x2910
ISC	Poorly determined								
ISC	**X**	**17 05 58 47**±1.3	**29.1N**±.10	**130.2E**±.27	**39**		**5**	**1-2**	
JMA	X	17 05 58 47.0±.1	29.14N±.01	130.25E±.03	39	3.2			¶97x2935
ISC	**X**	**17 08 26 43**±1.2	**29.1N**±.25	**129.7E**±.86	**76**		**4**	**1-1**	
JMA	X	17 08 26 43.2±.1	29.05N±.01	129.69E±.03	76±2	2.3			¶97x2948
ISC	Poorly determined								
ISC	**X**	**18 21 19 44**±1.3	**26.4N**±.16	**127.2E**±.13	**47**		**6**	**0-2**	
JMA	X	18 21 19 43.8±.3	26.46N±.02	127.21E±.01	47±5	3.0			¶97x3237
ISC	**X**	**18 23 42 38**±2.0	**29.99N**±.092	**129.9E**±.24	**98**±27		**8**	**0-2**	
JMA	X	18 23 42 38.5±.2	29.94N±.01	130.05E±.03	92±3				¶97x3257
ISC	**X**	**18 23 54 45**±4.3	**27.8N**±.25	**130.1E**±.45	**60**		**5**	**1-70**	
JMA	X	18 23 54 45.2±.2	27.81N±.02	130.05E±.03	60±4	2.8			¶97x3261
ISC	**X**	**19 14 56 53**±1.9	**25.5N**±.17	**128.52E**±.087	**58**		**10**	**1-4**	
JMA	X	19 14 56 53.8±.5	25.67N±.04	128.52E±.03	58	3.3			¶97x3361
ISC	**X**	**19 21 29 35**±2.0	**29.30N**±.097	**129.3E**±.31	**75**±43		**6**	**1-3**	
JMA	X	19 21 29 36.1±.2	29.26N±.01	129.44E±.04	70	2.7			¶97x3393
ISC	**X**	**20 01 03 32.6**±.59	**25.7N**±.23	**126.2E**±.19	**54**±18	**4.2b**	**15**	**1-79**	
EIDC	X	20 01 03 31.5	26.5N	126.1E	0	4.2b			¶97x3412
JMA	X	20 01 03 32.4±.2	25.66N±.04	126.21E±.03	71	3.7			
JMA	**X**	**20 01 26 11.5**±.7	**25.52N**±.06	**126.75E**±.05	**36**	**3.9**			¶97x3414
ISC	**X**	**20 13 22 56**±1.4	**28.2N**±.24	**129.4E**±.23	**21**		**4**	**0-2**	
JMA	X	20 13 22 55.9±.1	28.22N±.02	129.40E±.02	21	2.8			¶97x3502
ISC	Poorly determined								
ISC	**X**	**21 03 43 27**±1.5	**26.4N**±.20	**127.0E**±.16	**60**		**5**	**0-1**	
JMA	X	21 03 43 27.5±.2	26.43N±.01	127.06E±.01	60±2	3.0			¶97x3593
ISC	**X**	**22 12 16 12**±4.0	**28.5N**±.32	**128.8E**±.23	**25**		**5**	**1-2**	
JMA	X	22 12 16 10.3±.4	28.61N±.03	128.66E±.02	25	2.9			¶97x3807
ISC	**X**	**22 13 33 08**±3.4	**28.0N**±.22	**130.0E**±.37	**36**±40		**6**	**0-2**	
JMA	X	22 13 33 06.3±.3	27.96N±.02	130.13E±.03	49±3	3.0			¶97x3821
ISC	**X**	**22 13 33 25**±2.1	**27.9N**±.16	**130.1E**±.24	**50**		**11**	**0-4**	
JMA	X	22 13 33 24.5±.3	27.91N±.02	130.16E±.03	50±3	3.2			¶97x3822
ISC	**X**	**23 10 37 51**±1.1	**28.3N**±.15	**129.3E**±.21	**26**±17		**8**	**0-3**	
JMA	X	23 10 37 50.1±.1	28.31N±.02	129.30E±.02	35±3	3.6			¶97x3970
ISC	**X**	**23 10 44 24**±1.0	**26.8N**±.13	**127.6E**±.17	**62**		**7**	**0-2**	
JMA	X	23 10 44 23.9±.2	26.78N±.01	127.65E±.02	62±3	3.7			¶97x3973
ISC	**X**	**23 11 27 28**±1.4	**28.86N**±.082	**129.7E**±.22	**6**		**4**	**0-1**	
JMA	X	23 11 27 28.6±.2	28.86N±.01	129.67E±.02	6±4	3.0			¶97x3984
ISC	Poorly determined								
ISC	**X**	**23 11 47 37**±1.2	**27.5N**±.27	**128.6E**±.36	**29**±18		**5**	**0-2**	
JMA	X	23 11 47 36.8±.0	27.45N±.02	128.61E±.02	41±2	3.6			¶97x3987
ISC	Poorly determined								
JMA	**X**	**23 16 31 50.2**±.3	**28.13N**±.02	**130.33E**±.03	**40**±2	**3.0**			¶97x4027
JMA	**X**	**23 17 25 19.3**±.2	**25.55N**±.01	**126.91E**±.01	**3**±2	**3.1**			¶97x4035
ISC	**X**	**23 21 54 04**±5.1	**27.9N**±.29	**130.2E**±.55	**51**±45		**5**	**0-2**	
JMA	X	23 21 54 03.5±.1	27.93N±.01	130.13E±.02	59±1	3.2			¶97x4073
ISC	Poorly determined								
ISC	**X**	**24 07 29 02**±1.1	**28.11N**±.087	**130.3E**±.15	**38**±47		**7**	**0-3**	
JMA	X	24 07 29 01.6±.1	28.11N±.01	130.34E±.01	46±2	3.5			¶97x4119
ISC	**X**	**24 10 55 24**±1.6	**26.3N**±.10	**128.61E**±.089	**27**±16		**9**	**1-2**	
JMA	X	24 10 55 24.4±.3	26.29N±.02	128.60E±.02	44	3.8			¶97x4152
ISC	**X**	**24 10 59 51**±1.4	**28.2N**±.18	**129.5E**±.21	**35**		**4**	**0-2**	
JMA	X	24 10 59 50.9±.1	28.21N±.01	129.47E±.02	35±2	3.2			¶97x4153
ISC	Poorly determined								
ISC	**X**	**24 13 10 39.9**±.94	**28.71N**±.083	**129.0E**±.14	**50**		**9**	**1-3**	
JMA	X	24 13 10 39.5±.2	28.73N±.01	128.96E±.02	50	3.1			¶97x4169
ISC	**X**	**25 01 47 35.9**±.93	**28.08N**±.080	**129.6E**±.12	**57**±19		**10**	**0-3**	
JMA	X	25 01 47 36.4±.1	28.17N±.02	129.48E±.03	52±2	3.8			¶97x4255
ISC	**X**	**25 11 02 32**±2.8	**27.9N**±.24	**130.2E**±.36	**49**±42		**10**	**0-4**	
JMA	X	25 11 02 32.3±.3	27.90N±.03	130.15E±.04	60±3	3.3			¶97x4314
ISC	**X**	**25 11 14 15**±2.0	**25.6N**±.25	**128.8E**±.12	**53**		**6**	**1-2**	
JMA	X	25 11 14 15.0±.5	25.63N±.04	128.78E±.03	53	3.3			¶97x4315
ISC	**X**	**26 01 20 19.8**±.98	**28.2N**±.14	**129.5E**±.18	**23**±16		**6**	**0-2**	
JMA	X	26 01 20 19.7±.1	28.20N±.01	129.45E±.02	32±2	3.1			¶97x4398
JMA	**X**	**26 04 02 02.5**±.4	**27.99N**±.02	**130.20E**±.03	**44**	**3.0**			¶97x4413
ISC	**X**	**26 08 07 57.2**±.72	**26.0N**±.18	**126.6E**±.14	**70**±13	**3.4b**	**15**	**0-72**	
EIDC	X	26 08 07 57.3	27.5N	126.8E	0	3.5b,3.4L			¶97x4434
JMA	X	26 08 07 57.6±.2	25.97N±.02	126.68E±.01	60±2	3.7			
NEIC	X	26 08 08 00.3	27.45N	126.71E	33				
NEIC	Single network solution.								
JMA	**X**	**26 13 54 34.8**±.0	**27.96N**±.00	**130.18E**±.00	**60**±1	**2.5**			¶97x4470
ISC	**X**	**26 15 10 38**±1.1	**28.89N**±.081	**129.6E**±.27	**32**		**5**	**0-3**	
JMA	X	26 15 10 37.7±.2	28.91N±.01	129.57E±.04	32	2.8			¶97x4483
ISC	**X**	**26 15 27 19**±1.5	**28.7N**±.11	**129.9E**±.27	**34**		**5**	**0-2**	
JMA	X	26 15 27 18.6±.2	28.79N±.02	129.89E±.05	34	2.9			¶97x4488
JMA	**X**	**27 03 42 47.0**±.1	**28.19N**±.02	**129.48E**±.02	**27**	**2.8**			¶97x4561
JMA	**X**	**27 06 14 18.9**±.4	**28.13N**±.02	**130.31E**±.03	**43**±3	**3.0**			¶97x4579
ISC	**X**	**28 23 17 26.9**±.63	**26.3N**±.12	**126.8E**±.11	**80**±8.7	**3.7b**	**16**	**0-60**	
JMA	X	28 23 17 27.3±.2	26.33N±.02	126.76E±.01	71±2	3.8			¶97x4829
EIDC	X	28 23 17 36.6	24.4N	130.0E	0	3.8b			
JMA	**X**	**29 00 31 02.6**±.4	**27.88N**±.02	**129.91E**±.04	**63**	**2.3**			¶97x4837
ISC	**X**	**29 23 46 27**±1.8	**26.1N**±.19	**127.49E**±.096	**19**		**5**	**0-1**	
JMA	X	29 23 46 27.6±.2	26.14N±.02	127.50E±.01	19±3	2.9			¶97x4963
ISC	**X**	**30 01 16 03**±1.2	**26.66N**±.081	**127.38E**±.094	**8**		**6**	**1-2**	
JMA	X	30 01 16 03.4±.2	26.66N±.01	127.39E±.01	8±3	3.5			¶97x4970
JMA	**X**	**30 02 13 39.3**±.3	**29.03N**±.02	**130.78E**±.03	**44**	**2.8**			¶97x4977
ISC	**X**	**30 13 13 20**±1.1	**28.73N**±.085	**129.0E**±.17	**59**		**7**	**1-3**	
JMA	X	30 13 13 20.0±.1	28.74N±.01	129.01E±.02	59	3.0			¶97x5044
ISC	**X**	**30 14 57 23**±4.6	**28.0N**±.19	**130.2E**±.44	**32**±16		**6**	**0-2**	
JMA	X	30 14 57 21.4±.4	27.99N±.02	130.25E±.04	45±3	3.1			¶97x5056
ISC	**XI**	**01 02 26 36**±2.0	**26.1N**±.28	**127.5E**±.10	**20**		**5**	**0-1**	
JMA	XI	01 02 26 36.2±.4	26.13N±.03	127.49E±.01	20±4	2.9			¶97xi0013
ISC	Poorly determined								
ISC	**XI**	**01 05 04 03**±2.0	**26.1N**±.28	**127.5E**±.10	**19**		**5**	**0-1**	
JMA	XI	01 05 04 03.6±.3	26.14N±.03	127.49E±.01	19±4	2.9			¶97xi0031
ISC	Poorly determined								
ISC	**XI**	**01 07 36 14.7**±.88	**28.57N**±.095	**129.3E**±.16	**57**		**7**	**0-2**	
JMA	XI	01 07 36 14.4±.1	28.58N±.02	129.27E±.03	57±4	3.5			¶97xi0041
ISC	**XI**	**01 16 56 33**±1.9	**29.3N**±.13	**130.5E**±.35	**74**±40		**10**	**1-3**	
JMA	XI	01 16 56 33.2±.1	29.22N±.01	130.53E±.03	60±5	2.7			¶97xi0106
ISC	**XI**	**01 19 18 06**±2.5	**28.0N**±.18	**130.2E**±.27	**37**±56		**9**	**0-4**	
JMA	XI	01 19 18 04.9±.3	27.98N±.02	130.27E±.03	47±3	2.9			¶97xi0129
ISC	**XI**	**01 22 51 19**±1.7	**26.8N**±.24	**127.5E**±.20	**62**		**4**	**0-1**	
JMA	XI	01 22 51 18.8±.1	26.78N±.02	127.52E±.01	62	2.4			¶97xi0154
ISC	Poorly determined								
JMA	**XI**	**02 00 19 44.7**±.4	**28.20N**±.02	**130.63E**±.04	**61**	**2.5**			¶97xi0164
ISC	**XI**	**02 02 55 00**±2.0	**26.1N**±.27	**127.5E**±.10	**18**		**5**	**0-1**	
JMA	XI	02 02 55 00.4±.3	26.16N±.03	127.50E±.01	18±3	2.9			¶97xi0186
ISC	Poorly determined								
ISC	**XI**	**02 12 00 36.9**±.67	**25.12N**±.054	**126.94E**±.055	**39**±6.9	**4.1b,4.3s**	**45**	**1-85**	
JMA	XI	02 12 00 37.4±.4	25.30N±.06	126.78E±.05	98	4.4			¶97xi0255
NEIC	XI	02 12 00 44.3	24.98N	126.78E	100	4.1b			
BJI	XI	02 12 00 44.5	25.00N	126.80E	100	4.6b			
EIDC	XI	02 12 00 47.6	25.1N	126.9E	120	3.7b,4.3s			
ISC	**XI**	**02 13 34 43**±2.5	**27.3N**±.31	**128.8E**±.46	**23**±29		**5**	**0-2**	
JMA	XI	02 13 34 43.3±.2	27.32N±.03	128.86E±.04	29±5	3.4			¶97xi0267
ISC	Poorly determined								
ISC	**XI**	**03 00 44 48**±1.5	**27.4N**±.23	**128.7E**±.31	**25**±16		**7**	**0-2**	
JMA	XI	03 00 44 47.7±.2	27.38N±.03	128.76E±.04	31±4	3.3			¶97xi0366
ISC	**XI**	**03 01 57 20.5**±.98	**27.38N**±.077	**130.2E**±.10	**56**		**9**	**1-3**	
JMA	XI	03 01 57 20.2±.3	27.37N±.02	130.17E±.02	56	3.3			¶97xi0374
ISC	**XI**	**03 03 45 16**±2.7	**28.8N**±.23	**128.6E**±.37	**142**±60		**8**	**1-3**	
JMA	XI	03 03 45 17.5±.1	28.83N±.01	128.57E±.02	121				¶97xi0394
JMA	**XI**	**03 04 04 25.6**±.3	**27.90N**±.02	**130.23E**±.03	**46**±4	**2.9**			¶97xi0400
ISC	**XI**	**03 04 23 26**±6.6	**28.0N**±.25	**130.2E**±.68	**46**		**4**	**0-2**	
JMA	XI	03 04 23 24.7±.5	27.91N±.02	130.23E±.05	46	3.2			¶97xi0406
ISC	Poorly determined								
JMA	**XI**	**03 05 18 01.0**±.2	**27.36N**±.02	**129.01E**±.02	**28**±3	**3.2**			¶97xi0411
ISC	**XI**	**03 05 39 00**±1.3	**27.88N**±.048	**130.22E**±.079	**25**±8.9	**4.3b**,4.2s	**37**	**0-85**	
JMA	XI	03 05 38 59.5±.1	27.88N±.01	130.27E±.02	44±3	4.1			¶97xi0413
BJI	XI	03 05 38 59.9	27.62N	130.48E	62	4.6b,4.1s			
NEIC	XI	03 05 39 01.7	27.88N	130.17E	33	4.9b			
EIDC	XI	03 05 39 05.5	27.9N	130.0E	49	3.9b,4.2L			
NEIC	Less reliable solution.								
ISC	**XI**	**03 05 42 46**±4.4	**27.8N**±.26	**130.1E**±.47	**56**±43		**6**	**0-2**	
JMA	XI	03 05 42 46.3±.2	27.88N±.02	130.07E±.03	61±3	3.5			¶97xi0414
ISC	**XI**	**03 16 01 55**±1.3	**27.95N**±.067	**130.2E**±.14	**34**±10	**3.9b**	**20**	**0-79**	
EIDC	XI	03 16 01 51.9	27.9N	130.1E	0	3.9b,3.9L			¶97xi0490
JMA	XI	03 16 01 54.1±.2	27.94N±.02	130.23E±.03	52±3	3.2			
NEIC	XI	03 16 01 54.8	27.96N	130.05E	33				
NEIC	Less reliable solution.								
ISC	**XI**	**03 16 35 33**±2.2	**27.5N**±.23	**129.4E**±.28	**63**		**6**	**1-3**	
JMA	XI	03 16 35 32.3±.4	27.44N±.04	129.49E±.05	63	3.0			¶97xi0494
ISC	**XI**	**03 22 54 44**±1.4	**29.23N**±.081	**129.7E**±.27	**60**±35		**8**	**1-3**	
JMA	XI	03 22 54 44.3±.1	29.21N±.01	129.75E±.03	57±3	3.2			¶97xi0531
ISC	**XI**	**04 03 27 05**±1.8	**26.6N**±.12	**127.9E**±.14	**69**±24		**8**	**0-3**	
JMA	XI	04 03 27 05.9±.3	26.70N±.02	127.77E±.03	54±4	3.6			¶97xi0565
ISC	**XI**	**04 12 28 36**±6.9	**26.3N**±.26	**126.3E**±.61	**70**		**6**	**0-3**	
JMA	XI	04 12 28 36.0±.6	26.32N±.04	126.33E±.05	70	3.1			¶97xi0634
ISC	**XI**	**04 22 54 45**±6.9	**27.9N**±.33	**127.1E**±.43	**184**±50		**9**	**1-4**	
JMA	XI	04 22 54 46.9±.4	27.95N±.03	127.11E±.03	162				¶97xi0702
ISC	**XI**	**04 23 01 02.5**±.55	**25.32N**±.055	**126.74E**±.056	**45**±6.9	**4.3b,3.8s**	**43**	**1-86**	
NEIC	XI	04 23 01 01.2	25.32N	126.45E	33	4.5b			¶97xi0703
JMA	XI	04 23 01 03.2±.2	25.47N±.03	126.63E±.03	83	4.5			
EIDC	XI	04 23 01 05.7	25.3N	126.5E	54	4.0b,3.7s			
BJI	XI	04 23 01 06.1	24.61N	126.33E	59	4.0L,4.0b			
ISC	**XI**	**05 10 53 26**±1.3	**26.4N**±.11	**127.7E**±.13	**15**		**5**	**0-1**	
JMA	XI	05 10 53 26.2±.1	26.38N±.01	127.70E±.01	15	2.9			¶97xi0779
ISC	Poorly determined								
JMA	**XI**	**05 16 51 58.9**±.6	**27.91N**±.03	**130.24E**±.04	**48**	**2.8**			¶97xi0830
ISC	**XI**	**05 19 27 53**±4.2	**29.7N**±.17	**129.2E**±.37	**216**±57		**11**	**1-4**	
JMA	XI	05 19 27 54.3±.3	29.69N±.02	129.33E±.05	209±4				¶97xi0850
ISC	**XI**	**06 03 18 35**±1.6	**27.7N**±.28	**128.6E**±.40	**48**±54		**6**	**0-2**	
JMA	XI	06 03 18 35.0±.1	27.70N±.03	128.62E±.04	48±4	3.4			¶97xi0913
ISC	**XI**	**06 14 50 02**±1.2	**26.4N**±.10	**127.32E**±.082	**12**		**5**	**0-1**	
JMA	XI	06 14 50 02.0±.1	26.44N±.01	127.33E±.01	12	2.8			¶97xi0994
ISC	**XI**	**08 03 42 30**±3.0	**25.2N**±.27	**128.2E**±.14	**64**		**7**	**1-3**	
JMA	XI	08 03 42 34.0±.4	25.44N±.03	128.13E±.02	64	3.4			¶97xi1207
ISC	**XI**	**08 07 30 19**±2.9	**28.1N**±.21	**130.3E**±.30	**43**		**5**	**0-3**	
JMA	XI	08 07 30 18.2±.3	28.11N±.02	130.34E±.03	43±3	2.8			¶97xi1230

Agency		Origin Time				φ	λ	h	Mag	n	Δ-Rng
		mo	d	h	m	s	°	°	km			°
JMA	**XI**	**09**	**01**	**31**	**29.8**±.3	**27.91N**±.02	**130.23E**±.03	**43**±4	**2.8**		**¶97xi1378**
JMA	**XI**	**09**	**10**	**58**	**25.1**±.6	**25.52N**±.04	**126.89E**±.03	**3**±4	**2.9**		**¶97xi1438**
ISC	**XI**	**10**	**20**	**57**	**57**±1.2	**28.0N**±.27	**129.4E**±.24	**26**±22		**6**	**0-3**
JMA	XI	10	20	57	56.9±.2	27.99N±.03	129.41E±.04	32	2.9		**¶97xi1672**
JMA	**XI**	**10**	**23**	**30**	**29.2**±.5	**25.48N**±.03	**128.65E**±.03	**86**	**3.5**		**¶97xi1692**
JMA	**XI**	**11**	**00**	**16**	**43.4**±.2	**28.15N**±.01	**130.34E**±.02	**43**±2	**2.8**		**¶97xi1695**
ISC	**XI**	**11**	**03**	**57**	**51**±3.1	**27.7N**±.20	**130.0E**±.37	**67**		**5**	**1-3**
JMA	XI	11	03	57	50.4±.3	27.68N±.02	129.95E±.03	67	2.8		**¶97xi1726**
ISC	**XI**	**11**	**18**	**17**	**55**±2.2	**28.0N**±.13	**130.3E**±.24	**47**		**8**	**0-3**
JMA	XI	11	18	17	54.1±.3	27.98N±.02	130.31E±.03	47±3	3.3		**¶97xi1847**
ISC	**XI**	**11**	**21**	**20**	**40**±1.9	**29.1N**±.11	**130.5E**±.30	**66**±59		**8**	**1-2**
JMA	XI	11	21	20	39.8±.1	29.13N±.01	130.56E±.02	64±4	3.1		**¶97xi1877**
ISC	**XI**	**12**	**07**	**40**	**40.5**±.76	**26.37N**±.049	**127.33E**±.048	**18**±7.4	**3.9b**,3.9s	**38**	**0-94**
BJI	XI	12	07	40	32.2	25.66N	127.96E	23	4.1b,4.2s		**¶97xi1954**
EIDC	XI	12	07	40	39.0	26.4N	127.3E	0	3.9b,4.0L		
JMA	XI	12	07	40	40.3±.2	26.38N±.02	127.31E±.01	30	4.4		
NEIC	XI	12	07	40	42.1	26.39N	127.35E	33	4.0b		
JMA	Felt I=II J1										
NEIC	Less reliable solution.										
ISC	**XI**	**12**	**08**	**08**	**01**±1.1	**26.4N**±.12	**127.30E**±.095	**30**		**6**	**0-2**
JMA	XI	12	08	08	00.7±.2	26.38N±.02	127.30E±.01	30	3.3		**¶97xi1955**
ISC	**XI**	**12**	**08**	**35**	**47**±1.1	**26.4N**±.10	**127.31E**±.093	**25**		**6**	**0-2**
JMA	XI	12	08	35	47.6±.1	26.42N±.01	127.31E±.01	25±3	4.0		**¶97xi1958**
ISC	**XI**	**12**	**11**	**22**	**42**±1.3	**26.4N**±.14	**127.3E**±.11	**13**		**4**	**0-1**
JMA	XI	12	11	22	42.3±.1	26.43N±.01	127.32E±.01	13	2.8		**¶97xi1974**
ISC	Poorly determined										
JMA	**XI**	**12**	**17**	**58**	**50.0**±.2	**27.90N**±.02	**129.81E**±.02	**69**±3	**2.1**		**¶97xi2017**
ISC	**XI**	**12**	**19**	**19**	**01.1**±.93	**28.0N**±.11	**128.7E**±.12	**22**		**8**	**0-2**
JMA	XI	12	19	19	00.5±.2	27.96N±.02	128.68E±.02	22	3.0		**¶97xi2024**
ISC	**XI**	**13**	**00**	**07**	**31.2**±.43	**28.66N**±.056	**128.57E**±.098	**148**±5.6	**3.6b**	**28**	**1-91**
BJI	XI	13	00	07	30.0	28.60N	128.90E	149	4.1b		**¶97xi2052**
EIDC	XI	13	00	07	30.8	28.8N	128.7E	129	3.5b		
NEIC	XI	13	00	07	31.4	28.61N	128.90E	149	4.2b		
JMA	XI	13	00	07	32.3±.1	28.67N±.01	128.53E±.02	128			
NEIC	Less reliable solution.										
JMA	**XI**	**13**	**08**	**24**	**34.4**±.6	**26.69N**±.05	**126.28E**±.05	**118**			**¶97xi2099**
ISC	**XI**	**13**	**11**	**31**	**09**±6.0	**29.6N**±.49	**130.5E**±.40	**64**		**4**	**1-2**
JMA	XI	13	11	31	09.7±.3	29.64N±.02	130.49E±.03	64±4	2.5		**¶97xi2126**
ISC	Poorly determined										
ISC	**XI**	**15**	**14**	**03**	**48**±1.0	**26.2N**±.11	**128.62E**±.081	**47**		**9**	**1-2**
JMA	XI	15	14	03	48.3±.3	26.29N±.03	128.61E±.02	47	3.4		**¶97xi2488**
ISC	**XI**	**15**	**15**	**20**	**15**±1.7	**29.5N**±.11	**130.5E**±.36	**64**±49		**7**	**1-3**
JMA	XI	15	15	20	15.4±.2	29.50N±.01	130.50E±.04	64	2.3		**¶97xi2497**
ISC	**XI**	**15**	**16**	**29**	**25**±1.5	**29.4N**±.12	**130.6E**±.26	**74**		**7**	**1-3**
JMA	XI	15	16	29	25.1±.3	29.39N±.02	130.62E±.04	74	2.4		**¶97xi2507**
ISC	**XI**	**15**	**22**	**04**	**20.4**±.81	**27.32N**±.073	**129.60E**±.092	**58**		**10**	**1-4**
JMA	XI	15	22	04	20.1±.3	27.32N±.02	129.61E±.02	58	3.4		**¶97xi2545**
ISC	**XI**	**15**	**23**	**17**	**26.7**±.90	**26.18N**±.044	**128.43E**±.052	**30**±6.4	**4.3b**,4.4s	**60**	**1-124**
BJI	XI	15	23	17	25.6	26.03N	128.62E	46	4.6b,4.2s		**¶97xi2560**
JMA	XI	15	23	17	26.2±.3	26.13N±.02	128.47E±.02	48	4.2		
NEIC	XI	15	23	17	27.2	26.21N	128.48E	33	4.6b		
EIDC	XI	15	23	17	29.4	26.2N	128.5E	35	4.0b		
ISC	**XI**	**15**	**23**	**19**	**45**±11	**26.3N**±.53	**128.3E**±.84	**6**		**4**	**0-1**
JMA	XI	15	23	19	44.0±.4	26.23N±.02	128.39E±.02	6	3.0		**¶97xi2561**
ISC	Poorly determined										
ISC	**XI**	**15**	**23**	**42**	**42.2**±.73	**29.92N**±.049	**130.96E**±.073	**43**±7.3	**4.1b**	**39**	**1-92**
NEIC	XI	15	23	42	41.6	29.98N	130.76E	41	4.5b		**¶97xi2565**
JMA	XI	15	23	42	42.7±.1	29.93N±.01	130.87E±.01	59±2	4.3		
EIDC	XI	15	23	42	43.4	30.1N	130.7E	39	3.7b,4.2L		
BJI	XI	15	23	42	45.0	29.86N	130.89E	66	4.3b		
NEIC	Less reliable solution.										
ISC	**XI**	**16**	**00**	**11**	**12**±1.9	**29.4N**±.18	**130.6E**±.43	**75**±60		**7**	**1-2**
JMA	XI	16	00	11	12.3±.2	29.35N±.02	130.62E±.03	80	2.7		**¶97xi2573**
ISC	**XI**	**16**	**00**	**59**	**34**±1.4	**26.1N**±.20	**128.5E**±.12	**46**		**4**	**1-2**
JMA	XI	16	00	59	33.5±.5	26.14N±.04	128.48E±.03	46	3.2		**¶97xi2578**
ISC	Poorly determined										
ISC	**XI**	**16**	**05**	**34**	**30**±1.2	**27.1N**±.11	**130.3E**±.16	**50**		**5**	**1-2**
JMA	XI	16	05	34	30.3±.2	27.05N±.02	130.22E±.02	50	3.2		**¶97xi2602**
ISC	**XI**	**16**	**20**	**12**	**46**±2.1	**29.6N**±.13	**130.4E**±.27	**80**±35		**7**	**0-2**
JMA	XI	16	20	12	45.6±.1	29.53N±.01	130.51E±.03	67±3	3.3		**¶97xi2690**
ISC	**XI**	**16**	**20**	**33**	**04**±1.6	**28.9N**±.10	**129.9E**±.31	**27**		**4**	**1-1**
JMA	XI	16	20	33	03.9±.1	28.88N±.01	129.87E±.03	27	2.9		**¶97xi2693**
ISC	Poorly determined										
ISC	**XI**	**16**	**21**	**10**	**26**±1.4	**26.4N**±.15	**127.7E**±.13	**13**±20		**9**	**0-3**
JMA	XI	16	21	10	26.2±.1	26.37N±.01	127.69E±.01	17±4	3.9		**¶97xi2696**
JMA	Felt I=III J1										
ISC	**XI**	**16**	**22**	**20**	**56**±1.0	**26.42N**±.073	**127.7E**±.10	**4**±20		**6**	**0-2**
JMA	XI	16	22	20	56.5±.1	26.38N±.01	127.69E±.01	14	2.9		**¶97xi2702**
ISC	**XI**	**17**	**15**	**43**	**01**±8.5	**28.6N**±.84	**129.2E**±.37	**42**		**5**	**0-2**
JMA	XI	17	15	43	02.4±.3	28.44N±.04	129.29E±.04	42±5	3.2		**¶97xi2822**
ISC	**XI**	**17**	**22**	**34**	**41**±2.1	**26.1N**±.26	**127.3E**±.12	**37**		**5**	**0-1**
JMA	XI	17	22	34	41.8±.4	26.18N±.03	127.27E±.01	37±4	2.8		**¶97xi2869**
ISC	**XI**	**18**	**17**	**10**	**00**±1.7	**28.2N**±.13	**129.9E**±.15	**8**±14		**6**	**0-2**
JMA	XI	18	17	09	59.7±.2	28.23N±.02	129.95E±.02	15±2	3.2		**¶97xi3015**
JMA	Felt I=II J1										
ISC	**XI**	**18**	**21**	**46**	**13**±1.1	**29.31N**±.086	**130.4E**±.19	**27**		**6**	**1-2**
JMA	XI	18	21	46	12.8±.1	29.30N±.01	130.48E±.02	27	3.0		**¶97xi3067**
ISC	**XI**	**19**	**01**	**34**	**18**±3.7	**27.9N**±.25	**130.1E**±.42	**53**±38		**7**	**0-3**
JMA	XI	19	01	34	17.7±.3	27.90N±.03	130.08E±.04	62±3	3.5		**¶97xi3102**
ISC	**XI**	**19**	**08**	**53**	**23**±2.3	**27.1N**±.20	**127.9E**±.22	**55**±30		**5**	**0-1**
JMA	XI	19	08	53	22.4±.2	27.06N±.02	127.89E±.02	57±3	2.9		**¶97xi3175**
ISC	Poorly determined										
ISC	**XI**	**19**	**10**	**05**	**13**±4.6	**27.6N**±.36	**130.0E**±.54	**87**		**5**	**1-2**
JMA	XI	19	10	05	12.7±.4	27.61N±.03	129.97E±.04	87	2.5		**¶97xi3190**
ISC	**XI**	**19**	**14**	**43**	**19**±2.5	**27.5N**±.33	**128.5E**±.40	**49**±62		**5**	**0-2**
JMA	XI	19	14	43	19.0±.2	27.48N±.03	128.50E±.04	48±4	3.1		**¶97xi3241**
ISC	Poorly determined										
ISC	**XI**	**20**	**10**	**11**	**04**±4.4	**27.2N**±.17	**127.3E**±.30	**141**±41		**9**	**1-4**
JMA	XI	20	10	11	05.7±.3	27.25N±.03	127.27E±.03	112			**¶97xi3444**
ISC	**XI**	**20**	**10**	**23**	**25**±1.3	**28.79N**±.085	**128.7E**±.17	**146**±25		**14**	**1-4**
JMA	XI	20	10	23	25.6±.1	28.88N±.01	128.54E±.02	119			**¶97xi3446**
ISC	**XI**	**20**	**15**	**09**	**48**±1.1	**28.2N**±.23	**129.5E**±.21	**35**		**5**	**0-2**
JMA	XI	20	15	09	48.2±.0	28.22N±.01	129.49E±.01	35±1	3.0		**¶97xi3479**
ISC	**XI**	**21**	**14**	**46**	**10**±1.8	**28.5N**±.17	**130.1E**±.25	**28**±11		**6**	**0-2**
JMA	XI	21	14	46	09.7±.3	28.43N±.03	130.12E±.04	32±3	3.3		**¶97xi3671**
ISC	**XI**	**21**	**16**	**17**	**03**±1.7	**29.5N**±.11	**130.6E**±.27	**62**		**6**	**1-2**
JMA	XI	21	16	17	03.0±.4	29.54N±.03	130.60E±.05	62	2.8		**¶97xi3685**
ISC	**XI**	**21**	**17**	**58**	**15**±8.4	**28.0N**±.32	**130.2E**±.82	**44**		**4**	**0-2**
JMA	XI	21	17	58	14.3±.3	27.97N±.02	130.22E±.03	44±3	2.8		**¶97xi3702**
ISC	Poorly determined										
ISC	**XI**	**21**	**18**	**12**	**23**±1.1	**26.42N**±.098	**127.32E**±.088	**14**		**6**	**0-2**
JMA	XI	21	18	12	23.4±.1	26.45N±.01	127.32E±.01	14	3.0		**¶97xi3706**
ISC	**XI**	**21**	**18**	**36**	**23**±1.2	**29.4N**±.22	**129.9E**±.52	**83**		**4**	**0-2**
JMA	XI	21	18	36	22.8±.1	29.35N±.01	129.86E±.03	83±2	2.8		**¶97xi3710**
ISC	Poorly determined										
ISC	**XI**	**21**	**20**	**26**	**12**±1.9	**26.4N**±.26	**127.7E**±.16	**12**±38		**6**	**0-2**
JMA	XI	21	20	26	12.4±.1	26.38N±.01	127.71E±.01	13±5	2.8		**¶97xi3734**
ISC	**XI**	**22**	**03**	**39**	**57**±1.3	**27.9N**±.11	**130.1E**±.15	**55**		**6**	**0-2**
JMA	XI	22	03	39	57.0±.1	27.91N±.01	130.16E±.01	55±3	3.2		**¶97xi3795**
ISC	**XI**	**22**	**09**	**14**	**55**±2.5	**28.2N**±.38	**128.8E**±.37	**53**±56		**7**	**0-3**
JMA	XI	22	09	14	54.5±.3	28.16N±.03	128.79E±.03	60	2.7		**¶97xi3844**
ISC	**XI**	**23**	**10**	**30**	**22**±1.7	**27.6N**±.10	**129.1E**±.14	**29**±10	**4.0b**	**24**	**0-85**
BJI	XI	23	10	30	13.2	26.66N	129.60E	10	4.1b		**¶97xi4095**
NEIC	XI	23	10	30	15.0	27.01N	130.52E	33	4.7b		
EIDC	XI	23	10	30	17.2	27.0N	130.6E	37	3.7b,3.6L		
JMA	XI	23	10	30	21.6±.2	27.58N±.02	129.08E±.03	24	4.3		
NEIC	Poor solution.										
ISC	**XI**	**23**	**12**	**48**	**07.9**±.52	**28.15N**±.049	**129.60E**±.076	**48**±6.0	**3.9b**	**30**	**0-78**
JMA	XI	23	12	48	08.4±.0	28.21N±.01	129.50E±.01	37±1	3.9		**¶97xi4120**
NEIC	XI	23	12	48	10.5	28.15N	129.18E	65	3.8b		
BJI	XI	23	12	48	11.7	27.97N	129.34E	75	4.4b,4.2s		
EIDC	XI	23	12	48	12.3	28.1N	129.1E	60	3.5b,3.9L		
JMA	Felt I=II J1										
NEIC	Less reliable solution.										
ISC	**XI**	**23**	**19**	**31**	**43**±1.3	**28.7N**±.13	**129.6E**±.26	**52**±38		**8**	**0-2**
JMA	XI	23	19	31	43.4±.1	28.70N±.01	129.53E±.03	52±4	2.9		**¶97xi4181**
ISC	**XI**	**23**	**20**	**36**	**47**±1.9	**28.0N**±.22	**128.5E**±.18	**107**		**6**	**0-3**
JMA	XI	23	20	36	47.3±.2	28.09N±.03	128.44E±.04	107±5			**¶97xi4192**
ISC	**XI**	**24**	**13**	**05**	**29**±1.5	**27.9N**±.11	**130.1E**±.14	**53**±39		**7**	**0-2**
JMA	XI	24	13	05	28.5±.2	27.88N±.01	130.17E±.02	57±2	3.5		**¶97xi4321**
JMA	**XI**	**25**	**01**	**04**	**36.2**±.0	**28.16N**±.00	**130.14E**±.00	**33**±	**2.8**		**¶97xi4419**
JMA	**XI**	**25**	**04**	**29**	**45.2**±.2	**28.10N**±.04	**129.36E**±.05	**32**	**3.4**		**¶97xi4442**
JMA	**XI**	**25**	**04**	**50**	**20.7**±.1	**27.76N**±.04	**128.94E**±.06	**33**	**2.8**		**¶97xi4445**
ISC	**XI**	**25**	**13**	**29**	**04**±1.1	**26.3N**±.12	**127.28E**±.092	**30**		**7**	**0-3**
JMA	XI	25	13	29	04.0±.2	26.39N±.01	127.29E±.01	30	3.5		**¶97xi4523**
ISC	**XI**	**25**	**13**	**45**	**08**±2.6	**27.5N**±.28	**127.6E**±.32	**92**±46		**7**	**1-2**
JMA	XI	25	13	45	08.4±.2	27.51N±.03	127.56E±.03	93±4			**¶97xi4527**
ISC	**XI**	**25**	**18**	**23**	**44.2**±.69	**26.34N**±.069	**127.72E**±.093	**22**±6.9	**3.6b**	**12**	**0-73**
EIDC	XI	25	18	23	42.5	26.5N	127.6E	0	3.6b		**¶97xi4559**
JMA	XI	25	18	23	44.5±.1	26.38N±.01	127.70E±.01	17	3.8		
JMA	Felt I=II J1										
ISC	**XI**	**25**	**18**	**35**	**16**±1.0	**26.38N**±.078	**127.7E**±.12	**14**		**5**	**0-1**
JMA	XI	25	18	35	16.4±.1	26.38N±.01	127.70E±.01	14	3.3		**¶97xi4560**
ISC	**XI**	**25**	**18**	**40**	**36**±1.0	**26.38N**±.077	**127.7E**±.12	**14**		**5**	**0-1**
JMA	XI	25	18	40	36.0±.1	26.39N±.01	127.70E±.01	14	2.9		**¶97xi4561**
ISC	**XI**	**25**	**19**	**19**	**29**±1.0	**26.42N**±.067	**127.67E**±.097	**0**±16		**7**	**0-3**
JMA	XI	25	19	19	29.0±.1	26.38N±.02	127.71E±.01	15±5	3.5		**¶97xi4564**
ISC	**XI**	**25**	**20**	**13**	**34**±1.1	**26.4N**±.12	**127.7E**±.12	**18**±26		**6**	**0-2**
JMA	XI	25	20	13	34.7±.1	26.39N±.00	127.70E±.01	14	3.5		**¶97xi4568**
JMA	Felt I=II J1										
ISC	**XI**	**25**	**20**	**18**	**57**±1.6	**26.4N**±.26	**127.7E**±.16	**15**±35		**6**	**0-2**
JMA	XI	25	20	18	57.4±.1	26.38N±.01	127.69E±.01	14	3.3		**¶97xi4569**
ISC	**XI**	**25**	**20**	**32**	**46**±2.4	**26.4N**±.23	**127.7E**±.14	**10**±38		**7**	**0-3**
JMA	XI	25	20	32	46.8±.1	26.39N±.01	127.69E±.01	14	3.6		**¶97xi4571**
JMA	Felt I=II J1										
ISC	**XI**	**25**	**23**	**27**	**28**±1.1	**26.42N**±.078	**127.7E**±.12	**5**±15		**7**	**0-3**
JMA	XI	25	23	27	28.1±.1	26.39N±.00	127.72E±.01	13	3.6		**¶97xi4595**
JMA	Felt I=II J1										
ISC	**XI**	**26**	**03**	**16**	**08**±1.0	**26.37N**±.078	**127.7E**±.12	**14**		**5**	**0-1**
JMA	XI	26	03	16	08.1±.1	26.38N±.01	127.71E±.01	14	2.8		**¶97xi4617**
ISC	**XI**	**26**	**03**	**28**	**29**±1.7	**26.4N**±.26	**127.7E**±.16	**13**±36		**6**	**0-2**
JMA	XI	26	03	28	29.3±.1	26.38N±.01	127.69E±.01	14	3.1		**¶97xi4620**
ISC	**XI**	**26**	**03**	**43**	**34**±2.3	**26.4N**±.26	**127.7E**±.16	**10**±42		**6**	**0-2**
JMA	XI	26	03	43	33.9±.1	26.38N±.01	127.70E±.01	14	2.8		**¶97xi4625**
ISC	**XI**	**26**	**03**	**46**	**21.0**±.90	**26.37N**±.072	**127.7E**±.11	**14**		**6**	**0-2**
JMA	XI	26	03	46	21.2±.1	26.38N±.00	127.71E±.01	14	3.2		**¶97xi4626**
ISC	**XI**	**26**	**14**	**36**	**38**±1.4	**25.9N**±.14	**128.59E**±.095	**56**		**7**	**1-2**
JMA	XI	26	14	36	38.3±.2	25.95N±.02	128.58E±.02	56±5	3.3		**¶97xi4702**
ISC	**XI**	**26**	**15**	**32**	**37**±1.2	**25.94N**±.061	**128.58E**±.064	**25**±8.8	**4.0b**	**32**	**1-86**
EIDC	XI	26	15	32	35.1	25.9N	128.6E	0	3.9b,3.9L		**¶97xi4712**
BJI	XI	26	15	32	36.4	25.89N	128.46E	32	4.3b,4.5s		
JMA	XI	26	15	32	36.9±.3	25.94N±.02	128.57E±.01	58	4.0		
NEIC	XI	26	15	32	38.0	25.97N	128.53E	33	4.3b		
NEIC	Less reliable solution.										
ISC	**XI**	**26**	**15**	**43**	**13.6**±.99	**25.97N**±.040	**128.48E**±.047	**19**±6.7	**4.7b,5.1s**	**97**	**1-93**
EIDC	XI	26	15	43	12.4	26.0N	128.3E	0	4.5b,4.6s		**¶97xi4714**
JMA	XI	26	15	43	13.7±.2	25.92N±.01	128.58E±.01	60±4	5.0		
BJI	XI	26	15	43	14.7	25.96N	128.54E	37	5.0b,5.2s		
MOS	XI	26	15	43	15.8	26.0N	128.4E	33	5.3b,5.2s		
NEIC	XI	26	15	43	15.9	26.02N	128.43E	33	5.0b		
HRVD	XI	26	15	43	17.2±1.2	25.85N±.20	128.74E±.25	33			
NEIC	Mw5.2(HRV).										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s9,c15; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.20±.94; $M_{\theta\theta}$−0.41±.87; $M_{\phi\phi}$−3.79±1.43; $M_{r\theta}$4.92±2.00; $M_{r\phi}$1.00±1.77; $M_{\theta\phi}$−2.11±.93. Principal Axes: T 7.34,Plg57°,Azm3°; N −1.35, Plg24°,Azm229°; P −5.99,Plg21°,Azm129°. Best double couple: $M_0$6.7×10^{16}Nm, NP1: ϕ_S184°,δ32°,λ40°. NP2:ϕ_S58°,δ70°,λ116°.										
ISC	**XI**	**26**	**21**	**50**	**03**±13	**26.0N**±.78	**128.5E**±.97	**54**		**5**	**1-2**
JMA	XI	26	21	50	03.1±.9	26.01N±.04	128.50E±.06	54	2.8		**¶97xi4745**
ISC	**XI**	**26**	**22**	**39**	**09**±1.4	**25.9N**±.15	**128.54E**±.097	**58**		**7**	**1-2**
JMA	XI	26	22	39	09.6±.4	25.92N±.03	128.52E±.02	58	3.4		**¶97xi4754**
ISC	**XI**	**26**	**23**	**08**	**32**±1.2	**28.1N**±.28	**129.5E**±.23	**29**±24		**5**	**0-2**
JMA	XI	26	23	08	30.8±.1	28.20N±.02	129.46E±.01	46±2	2.8		**¶97xi4755**
ISC	Poorly determined										
ISC	**XI**	**26**	**23**	**20**	**51**±1.2	**28.1N**±.20	**129.5E**±.21	**27**		**4**	**0-2**
JMA	XI	26	23	20	50.9±.1	28.12N±.03	129.51E±.02	27±5	3.0		**¶97xi4756**
ISC	Poorly determined										
ISC	**XI**	**26**	**23**	**24**	**41**±1.2	**28.2N**±.28	**129.5E**±.29	**47**		**4**	**0-2**
JMA	XI	26	23	24	40.5±.3	28.18N±.04	129.48E±.03	47±4	2.8		**¶97xi4757**
ISC	Poorly determined										
ISC	**XI**	**26**	**23**	**26**	**32**±1.2	**28.2N**±.27	**129.5E**±.28	**46**		**4**	**0-2**
JMA	XI	26	23	26	31.7±.3	28.18N±.03	129.48E±.02	46±4	2.9		**¶97xi4758**
ISC	Poorly determined										
ISC	**XI**	**27**	**00**	**53**	**54**±1.3	**25.9N**±.13	**128.57E**±.086	**61**		**9**	**1-4**
JMA	XI	27	00	53	53.8±.2	25.94N±.02	128.56E±.02	61±5	3.7		**¶97xi4772**
ISC	**XI**	**27**	**01**	**42**	**34**±1.6	**25.8N**±.16	**128.5E**±.10	**40**		**6**	**1-2**
JMA	XI	27	01	42	33.5±.6	25.85N±.04	128.58E±.03	40	3.4		**¶97xi4775**
ISC	**XI**	**27**	**01**	**46**	**14**±1.5	**25.97N**±.063	**128.61E**±.064	**27**±11	**3.9b**,4.4s	**30**	**1-86**
JMA	XI	27	01	46	14.3±.2	25.99N±.02	128.65E±.01	56±5	3.9		**¶97xi4776**
BJI	XI	27	01	46	14.5	25.91N	128.79E	52	4.4b,4.4s		

NEIC XI 27 01 46 15.3 26.06N 128.67E 33 4.0b
EIDC XI 27 01 46 15.9 26.1N 128.6E 22 3.8b,3.7L
NEIC Less reliable solution.
ISC XI 27 01 57 05.6±.93 **26.03N**±.076 **128.62E**±.065 **35**±9.1 **3.9b**,3.4s **24 1-80**
EIDC XI 27 01 57 02.6 26.1N 128.6E 0 3.9b,3.4s **¶97xi4778**
JMA XI 27 01 57 04.7±.2 26.01N±.02 128.65E±.01 54 4.0
BJI XI 27 01 57 04.8 26.10N 128.92E 55 4.4b,4.1s
NEIC XI 27 01 57 05.6 26.07N 128.53E 33 3.9b
NEIC Less reliable solution.
ISC XI 27 06 01 54±1.7 **25.96N**±.092 **128.61E**±.099 **24**±17 3.3b **11 1-50**
EIDC XI 27 06 01 22.3 30.1N 130.0E 0 3.3b,3.8L **¶97xi4807**
JMA XI 27 06 01 54.4±.3 25.94N±.02 128.56E±.02 59 3.7
ISC XI 27 06 05 22±1.4 **25.9N**±.15 **128.57E**±.096 **61** **7 1-2**
JMA XI 27 06 05 22.4±.3 25.92N±.02 128.56E±.02 61 3.5 **¶97xi4808**
ISC XI 27 07 06 29±1.0 **26.37N**±.078 **127.7E**±.12 **14** **5 0-1**
JMA XI 27 07 06 28.8±.1 26.38N±.01 127.70E±.01 14 2.8 **¶97xi4821**
ISC XI 27 11 59 55±3.5 **27.9N**±.28 **129.9E**±.44 **65** **4 0-2**
JMA XI 27 11 59 55.0±.3 27.88N±.03 129.97E±.02 65±5 2.4 **¶97xi4852**
ISC Poorly determined
ISC XI 27 12 13 51±1.4 **25.9N**±.15 **128.53E**±.095 **52** **7 1-2**
JMA XI 27 12 13 50.7±.3 25.86N±.02 128.54E±.01 52 3.1 **¶97xi4853**
ISC XI 27 15 09 41±1.4 **25.9N**±.15 **128.59E**±.092 **31** **7 1-2**
JMA XI 27 15 09 40.4±.3 25.91N±.02 128.63E±.01 31 3.2 **¶97xi4882**
ISC XI 27 18 32 50±1.0 **26.38N**±.078 **127.7E**±.12 **14** **5 0-1**
JMA XI 27 18 32 50.5±.1 26.38N±.01 127.72E±.01 14 2.9 **¶97xi4918**
ISC XI 27 20 10 28±1.5 **25.9N**±.21 **126.5E**±.20 **77**±27 **9 0-4**
JMA XI 27 20 10 28.3±.1 25.84N±.01 126.58E±.01 63±2 3.3 **¶97xi4927**
ISC XI 27 20 34 36±1.4 **25.9N**±.13 **128.52E**±.086 **59** **9 1-4**
JMA XI 27 20 34 35.9±.3 25.88N±.02 128.51E±.02 59 3.2 **¶97xi4933**
ISC XI 28 00 52 15±1.0 **26.42N**±.073 **127.7E**±.10 **2**±20 **6 0-2**
JMA XI 28 00 52 15.1±.1 26.38N±.01 127.70E±.01 14 3.2 **¶97xi4978**
ISC XI 28 02 46 04±2.1 **26.4N**±.26 **127.7E**±.16 **11**±40 **6 0-2**
JMA XI 28 02 46 04.3±.1 26.38N±.01 127.70E±.01 14 3.0 **¶97xi4998**
ISC XI 28 12 57 32±2.1 **26.6N**±.14 **127.7E**±.17 **42**±55 **7 0-3**
JMA XI 28 12 57 32.0±.1 26.64N±.01 127.73E±.01 48 3.9 **¶97xi5086**
ISC XI 29 01 22 16±2.0 **26.4N**±.13 **127.7E**±.40 **18** **5 0-1**
JMA XI 29 01 22 16.1±.2 26.38N±.01 127.69E±.02 18 2.9 **¶97xi5168**
ISC Poorly determined
ISC XI 29 03 16 08±2.0 **27.9N**±.17 **129.4E**±.28 **9**±25 **6 1-3**
JMA XI 29 03 16 08.5±.1 27.98N±.03 129.36E±.03 24 3.4 **¶97xi5186**
ISC XI 29 03 51 20.6±.72 **27.58N**±.083 **129.4E**±.11 **54**±12 3.8b **11 1-79**
JMA XI 29 03 51 20.2±.2 27.61N±.02 129.36E±.03 72 3.9 **¶97xi5192**
ISC XI 29 04 00 21±1.2 **29.6N**±.11 **130.1E**±.23 **50** **6 0-2**
JMA XI 29 04 00 20.4±.1 29.62N±.01 130.21E±.02 50±2 2.9 **¶97xi5193**
ISC XI 30 08 03 32±2.1 **29.36N**±.097 **130.5E**±.27 **88**±40 **10 1-3**
JMA XI 30 08 03 32.2±.1 29.33N±.01 130.63E±.02 76±4 3.6 **¶97xi5384**
ISC XI 30 08 07 15±2.3 **29.4N**±.18 **130.5E**±.37 **77** **4 1-2**
JMA XI 30 08 07 14.8±.1 29.44N±.01 130.57E±.02 77 2.7 **¶97xi5386**
ISC Poorly determined
ISC XI 30 17 17 50±1.5 **29.36N**±.094 **130.6E**±.26 **73**±42 **10 1-3**
JMA XI 30 17 17 49.7±.2 29.32N±.01 130.65E±.03 74 3.3 **¶97xi5437**
ISC XI 30 17 18 55.5±.87 **29.43N**±.061 **130.6E**±.17 **66**±9.0 **3.5b** **18 1-71**
NEIC XI 30 17 18 53.1 29.15N 129.66E 33 **¶97xi5438**
JMA XI 30 17 18 55.7±.2 29.43N±.01 130.62E±.03 52 3.7
BJI XI 30 17 18 56.6 29.20N 129.70E 33 4.3b
EIDC XI 30 17 18 58.3 29.3N 129.7E 66 3.3b,3.4L
NEIC Single network solution.
ISC XI 30 17 24 49±1.4 **29.3N**±.11 **130.6E**±.25 **76** **7 1-2**
JMA XI 30 17 24 49.0±.1 29.33N±.01 130.60E±.02 76±3 3.0 **¶97xi5440**
ISC XI 30 20 22 27±1.2 **26.3N**±.29 **129.4E**±.13 **54** **5 1-2**
JMA XI 30 20 22 26.8±.3 26.30N±.06 129.45E±.02 54 3.1 **¶97xi5458**
ISC XI 30 20 53 29±5.0 **29.8N**±.23 **129.8E**±.62 **157**±50 **7 0-2**
JMA XI 30 20 53 29.6±.3 29.81N±.02 129.72E±.04 151±4 **¶97xi5459**
JMA XII 01 04 17 10.6±.2 **26.21N**±.02 **128.96E**±.02 **13** **3.3** **¶97xii0031**
ISC XII 01 20 50 03±1.0 **26.4N**±.11 **128.92E**±.087 **57** **8 1-2**
JMA XII 01 20 50 02.3±.2 26.37N±.02 128.93E±.01 57 3.4 **¶97xii0147**
ISC XII 02 01 20 40±2.8 **28.6N**±.18 **130.9E**±.33 **62** **9 1-4**
JMA XII 02 01 20 40.4±.2 28.63N±.01 130.92E±.03 62 3.6 **¶97xii0167**
ISC XII 02 13 01 23±1.9 **29.8N**±.12 **130.6E**±.24 **69**±34 **7 1-2**
JMA XII 02 13 01 23.3±.2 29.80N±.01 130.65E±.02 54±3 3.1 **¶97xii0251**
ISC XII 02 16 32 42±2.8 **27.6N**±.32 **127.8E**±.37 **89**±52 **6 1-2**
JMA XII 02 16 32 42.2±.1 27.58N±.02 127.78E±.02 90±3 2.7 **¶97xii0282**
ISC XII 03 17 48 15±2.6 **29.1N**±.12 **130.0E**±.34 **80**±41 **6 1-2**
JMA XII 03 17 48 15.3±.2 29.07N±.01 129.97E±.04 81±3 2.9 **¶97xii0472**
ISC XII 03 19 02 17±1.9 **29.1N**±.11 **130.1E**±.44 **54** **5 1-2**
JMA XII 03 19 02 16.7±.1 29.05N±.01 130.16E±.04 54 2.8 **¶97xii0481**
ISC XII 04 11 05 08±4.8 **27.9N**±.26 **130.1E**±.51 **42**±55 **5 0-2**
JMA XII 04 11 05 07.7±.1 27.93N±.01 130.12E±.01 51±1 2.8 **¶97xii0603**
ISC Poorly determined
ISC XII 04 15 55 03.6±.96 **26.65N**±.096 **127.8E**±.13 **18**±27 **6 0-1**
JMA XII 04 15 55 03.6±.1 26.65N±.01 127.84E±.01 20±3 2.8 **¶97xii0642**
ISC XII 04 18 05 30±1.4 **25.4N**±.19 **126.6E**±.16 **4** **6 1-2**
JMA XII 04 18 05 30.0±.3 25.35N±.03 126.63E±.02 4 2.8 **¶97xii0664**
ISC XII 04 19 30 38±1.1 **26.44N**±.098 **127.30E**±.089 **17** **6 0-2**
JMA XII 04 19 30 37.8±.1 26.45N±.02 127.31E±.01 17±5 3.3 **¶97xii0675**
ISC XII 04 19 36 55±1.3 **26.5N**±.11 **127.31E**±.087 **4**±20 **6 0-2**
JMA XII 04 19 36 55.5±.1 26.43N±.02 127.31E±.01 19±4 3.3 **¶97xii0677**
ISC XII 05 10 02 44±1.1 **26.44N**±.099 **127.30E**±.089 **18** **6 0-2**
JMA XII 05 10 02 43.6±.2 26.44N±.01 127.31E±.01 18 3.1 **¶97xii0827**
ISC XII 05 15 54 01±1.1 **26.13N**±.099 **128.4E**±.10 **52**±35 **12 1-5**
JMA XII 05 15 54 01.6±.3 26.17N±.02 128.39E±.02 51 3.7 **¶97xii0938**
ISC XII 06 09 52 29±4.8 **29.2N**±.17 **130.4E**±.72 **34** **4 1-2**
JMA XII 06 09 52 27.3±.3 29.15N±.01 130.50E±.04 34 2.8 **¶97xii1344**
ISC Poorly determined
ISC XII 06 13 28 29±1.0 **26.48N**±.092 **129.75E**±.087 **44** **9 1-3**
JMA XII 06 13 28 28.3±.2 26.47N±.01 129.74E±.01 44 3.3 **¶97xii1427**
ISC XII 07 12 23 55±1.3 **26.0N**±.14 **128.58E**±.095 **61** **7 1-2**
JMA XII 07 12 23 54.6±.3 25.95N±.02 128.56E±.02 61 3.0 **¶97xii1695**
ISC XII 07 16 22 25±1.4 **25.9N**±.15 **128.58E**±.096 **59** **7 1-2**
JMA XII 07 16 22 24.5±.2 25.91N±.02 128.57E±.02 59±5 3.0 **¶97xii1735**
ISC XII 08 09 33 32±5.0 **27.7N**±.42 **127.2E**±.41 **122** **5 1-2**
JMA XII 08 09 33 33.8±.4 27.62N±.03 127.27E±.03 122 **¶97xii1902**
ISC XII 08 13 01 51±11 **28.4N**±.37 **130.2E**±.99 **42** **4 0-2**
JMA XII 08 13 01 50.8±.4 28.27N±.03 130.24E±.04 42±3 3.1 **¶97xii1928**
ISC Poorly determined
ISC XII 08 14 16 10.9±.77 **28.17N**±.049 **130.69E**±.084 **40**±8.7 **4.0b** **27 1-72**
JMA XII 08 14 16 10.5±.1 28.19N±.01 130.68E±.02 70±3 3.9 **¶97xii1940**
BJI XII 08 14 16 10.6 28.20N 130.60E 33 4.1b,4.1s
NEIC XII 08 14 16 10.6 28.19N 130.61E 33 4.6b
EIDC XII 08 14 16 11.9±4.95 28.0N 130.8E 39±37.9 3.6b,3.8L
NEIC Less reliable solution.

EIDC Error ellipse is semi−major=60.6km semi−minor=25.8km azimuth=133
ISC XII 09 03 13 46.7±.46 **28.61N**±.056 **128.6E**±.10 **150**±6.0 **3.6b** **23 1-87**
BJI XII 09 03 13 44.7 28.69N 128.91E 152 4.5b **¶97xii2085**
EIDC XII 09 03 13 45.7±1.57 28.7N 128.6E 124±16.6 3.5b
NEIC XII 09 03 13 45.9 28.70N 128.66E 142 3.5b
JMA XII 09 03 13 48.0±.1 28.63N±.01 128.53E±.02 126
EIDC Error ellipse is semi−major=44.2km semi−minor=17.6km azimuth=92
NEIC Less reliable solution.
JMA XII 09 04 44 54.0±.3 **28.24N**±.02 **130.39E**±.02 **39**±2 **3.2** **¶97xii2101**
ISC XII 09 07 38 21±1.9 **27.4N**±.27 **128.8E**±.35 **24** **4 0-1**
JMA XII 09 07 38 21.3±.1 27.35N±.02 128.80E±.02 24±3 2.9 **¶97xii2124**
ISC Poorly determined
JMA XII 09 15 42 41.5±.1 **29.90N**±.01 **129.98E**±.01 **11** **3.0** **¶97xii2196**
ISC XII 09 17 49 46±1.3 **26.07N**±.069 **128.68E**±.075 **25**±9.4 **3.9b**,3.6s **23 1-86**
BJI XII 09 17 49 41.6 25.69N 128.95E 33 4.5b,4.3s **¶97xii2210**
JMA XII 09 17 49 45.6±.2 26.02N±.02 128.67E±.02 60±5 3.9
NEIC XII 09 17 49 47.1 26.13N 128.55E 33 3.9b
EIDC XII 09 17 49 48.0±.79 26.1N 128.7E 23±5.7 3.7b,3.6s
NEIC Poor solution.
EIDC Error ellipse is semi−major=36.5km semi−minor=16.7km azimuth=87
ISC XII 09 19 02 57±1.3 **26.0N**±.14 **128.67E**±.093 **58** **7 1-2**
JMA XII 09 19 02 56.3±.2 26.02N±.02 128.69E±.01 58 3.2 **¶97xii2218**
ISC XII 09 22 08 52±2.2 **27.1N**±.21 **128.5E**±.27 **47**±36 **5 0-2**
JMA XII 09 22 08 52.0±.3 27.10N±.03 128.47E±.03 50±3 2.9 **¶97xii2246**
ISC Poorly determined
ISC XII 10 00 30 35±1.3 **28.2N**±.25 **129.5E**±.24 **35** **4 0-2**
JMA XII 10 00 30 34.5±.1 28.20N±.02 129.51E±.02 35±2 3.2 **¶97xii2267**
ISC Poorly determined
ISC XII 10 12 19 56±4.8 **28.2N**±.39 **130.7E**±.63 **67**±59 **5 1-3**
JMA XII 10 12 19 56.3±.3 28.25N±.03 130.62E±.04 73±4 3.0 **¶97xii2349**
ISC Poorly determined
ISC XII 10 15 14 01±1.6 **26.4N**±.27 **127.7E**±.16 **14**±35 **6 0-2**
JMA XII 10 15 14 00.9±.1 26.38N±.01 127.69E±.01 16±2 3.1 **¶97xii2373**
ISC XII 10 22 16 33±1.0 **27.13N**±.084 **130.0E**±.10 **44** **8 1-3**
JMA XII 10 22 16 32.7±.1 27.12N±.01 129.99E±.01 44 3.0 **¶97xii2436**
ISC XII 10 22 43 34.4±.79 **26.96N**±.097 **128.73E**±.092 **47** **8 0-3**
JMA XII 10 22 43 34.5±.2 27.00N±.02 128.68E±.03 47±4 3.4 **¶97xii2440**
JMA XII 11 05 46 00.4±.3 **27.27N**±.02 **129.86E**±.02 **87** **3.2** **¶97xii2503**
ISC XII 11 19 05 06±7.5 **28.7N**±.24 **130.5E**±.88 **51** **4 1-2**
JMA XII 11 19 05 04.4±.4 28.64N±.02 130.59E±.04 51 2.8 **¶97xii2627**
ISC Poorly determined
ISC XII 11 19 35 35±1.5 **27.63N**±.086 **130.8E**±.15 **73** **9 1-4**
JMA XII 11 19 35 35.3±.3 27.64N±.01 130.82E±.02 73 2.9 **¶97xii2630**
ISC XII 11 22 42 36±1.9 **27.5N**±.10 **130.2E**±.13 **80**±43 **8 1-3**
JMA XII 11 22 42 36.6±.3 27.59N±.02 130.02E±.04 85 2.5 **¶97xii2650**
ISC XII 12 00 24 26±2.2 **26.4N**±.26 **127.7E**±.16 **11**±41 **6 0-2**
JMA XII 12 00 24 25.9±.1 26.38N±.00 127.72E±.01 14±1 2.9 **¶97xii2668**
ISC XII 12 11 12 36±1.7 **29.0N**±.10 **130.1E**±.40 **42** **6 1-2**
JMA XII 12 11 12 35.4±.1 29.03N±.01 130.12E±.03 42±5 2.8 **¶97xii2738**
ISC XII 12 11 29 41±3.8 **26.2N**±.31 **126.6E**±.32 **61** **5 0-3**
JMA XII 12 11 29 41.0±.4 26.19N±.04 126.66E±.03 61 3.1 **¶97xii2740**
ISC XII 12 17 17 40±4.7 **28.0N**±.25 **130.1E**±.53 **58** **5 0-2**
JMA XII 12 17 17 39.4±.4 27.95N±.03 130.17E±.04 58±4 2.9 **¶97xii2790**
ISC XII 12 17 24 12±3.0 **28.2N**±.24 **128.7E**±.17 **88**±29 **8 0-3**
JMA XII 12 17 24 11.6±.2 28.39N±.02 128.48E±.02 69 3.3 **¶97xii2792**
ISC XII 13 18 21 07±1.1 **26.9N**±.11 **128.1E**±.15 **37**±21 **7 0-2**
JMA XII 13 18 21 06.2±.2 26.94N±.02 128.09E±.03 42±3 3.2 **¶97xii2993**
ISC XII 14 02 59 07±1.5 **26.5N**±.13 **128.0E**±.19 **16**±32 **6 0-2**
JMA XII 14 02 59 07.1±.2 26.46N±.01 128.01E±.02 17±2 3.2 **¶97xii3071**
ISC XII 15 00 02 11±1.3 **26.70N**±.098 **127.4E**±.11 **19** **6 1-2**
JMA XII 15 00 02 11.2±.3 26.70N±.02 127.38E±.02 19 3.6 **¶97xii3209**
ISC XII 15 04 59 25±7.2 **26.5N**±.70 **126.4E**±.96 **99** **4 0-3**
JMA XII 15 04 59 25.9±.2 26.39N±.03 126.50E±.02 99 **¶97xii3245**
ISC Poorly determined
ISC XII 15 08 51 20±1.3 **25.9N**±.14 **128.59E**±.093 **52** **7 1-2**
JMA XII 15 08 51 20.4±.3 25.97N±.02 128.59E±.02 52 3.6 **¶97xii3259**
ISC XII 15 10 36 41±1.3 **25.9N**±.13 **128.56E**±.084 **60** **9 1-3**
JMA XII 15 10 36 41.4±.3 25.94N±.02 128.56E±.02 60 3.7 **¶97xii3269**
ISC XII 15 11 19 57±1.4 **25.9N**±.13 **128.55E**±.083 **56** **9 1-3**
JMA XII 15 11 19 56.4±.2 25.95N±.02 128.57E±.01 56 3.0 **¶97xii3277**
ISC XII 15 12 07 42±1.9 **29.6N**±.12 **130.5E**±.32 **73**±39 **7 1-2**
JMA XII 15 12 07 41.5±.2 29.55N±.01 130.64E±.02 62 2.7 **¶97xii3281**
ISC XII 15 19 10 23±3.9 **25.3N**±.24 **127.8E**±.15 **25**±20 **8 1-3**
JMA XII 15 19 10 27.2±.3 25.63N±.02 127.77E±.02 51±2 2.8 **¶97xii3327**
ISC XII 16 23 04 18±2.7 **29.0N**±.17 **130.7E**±.39 **72** **5 1-2**
JMA XII 16 23 04 18.5±.3 28.98N±.02 130.69E±.04 72 2.9 **¶97xii3520**
JMA XII 17 00 35 05.5±.3 **28.11N**±.01 **130.41E**±.03 **37**±2 **3.0** **¶97xii3530**
ISC XII 17 18 18 52±2.0 **27.6N**±.12 **130.9E**±.18 **68** **8 1-4**
JMA XII 17 18 18 52.0±.3 27.61N±.02 130.86E±.03 68 2.9 **¶97xii3642**
ISC XII 18 14 03 51±2.6 **26.3N**±.25 **126.7E**±.26 **61** **5 0-2**
JMA XII 18 14 03 50.9±.3 26.31N±.02 126.74E±.02 61±2 2.8 **¶97xii3777**
ISC XII 18 14 14 25±10 **25.5N**±.80 **128.2E**±.32 **62** **7 1-3**
JMA XII 18 14 14 25.1±.3 25.51N±.02 128.19E±.02 62±4 3.0 **¶97xii3779**
ISC XII 19 05 40 49±2.7 **27.7N**±.26 **127.6E**±.29 **103** **5 1-2**
JMA XII 19 05 40 49.7±.2 27.67N±.02 127.66E±.02 103 **¶97xii3900**
ISC XII 19 12 01 03±6.5 **27.0N**±.41 **126.0E**±.64 **140** **5 1-3**
JMA XII 19 12 01 05.0±.6 26.89N±.05 126.23E±.05 140 **¶97xii3953**
ISC XII 19 14 08 46±1.0 **28.17N**±.075 **130.4E**±.13 **36**±46 **9 0-3**
JMA XII 19 14 08 46.3±.3 28.21N±.02 130.32E±.03 45±2 3.6 **¶97xii3978**
JMA XII 19 16 37 00.0±.5 **28.13N**±.02 **130.35E**±.04 **39** **3.1** **¶97xii3993**
ISC XII 19 17 25 56±4.4 **28.2N**±.20 **130.3E**±.48 **36**±35 **7 0-2**
JMA XII 19 17 25 55.0±.3 28.23N±.02 130.32E±.03 44±2 3.2 **¶97xii4003**
ISC XII 19 17 55 35±1.4 **25.2N**±.20 **126.2E**±.15 **107**±31 **10 1-5**
JMA XII 19 17 55 37.1±.2 25.55N±.03 125.99E±.03 72±5 3.3 **¶97xii4009**
ISC XII 19 22 49 02±1.6 **29.35N**±.094 **130.8E**±.23 **64** **8 1-2**
JMA XII 19 22 49 02.3±.2 29.35N±.01 130.82E±.02 64 3.1 **¶97xii4042**
ISC XII 20 00 02 43±6.9 **28.5N**±.48 **128.2E**±.29 **160**±45 **6 1-4**
JMA XII 20 00 02 45.1±.2 28.38N±.02 128.33E±.03 158 **¶97xii4053**
ISC XII 20 05 43 34±1.5 **26.7N**±.13 **127.4E**±.12 **9** **4 1-1**
JMA XII 20 05 43 34.8±.2 26.65N±.01 127.40E±.01 9 3.3 **¶97xii4084**
ISC Poorly determined
JMA XII 20 18 43 49.5±.8 **27.64N**±.05 **130.89E**±.06 **63** **2.7** **¶97xii4151**
JMA XII 20 18 50 03.6±.3 **27.65N**±.02 **130.75E**±.03 **81** **2.8** **¶97xii4153**
ISC XII 20 18 51 19±9.6 **27.6N**±.25 **130.7E**±.91 **84** **8 1-4**
JMA XII 20 18 51 19.0±.3 27.65N±.02 130.69E±.03 84 2.8 **¶97xii4154**
JMA XII 20 20 27 29.2±.3 **27.61N**±.02 **130.86E**±.03 **62** **2.8** **¶97xii4165**
ISC XII 21 05 39 28±1.8 **27.6N**±.12 **130.8E**±.18 **67** **7 1-4**
JMA XII 21 05 39 27.9±.4 27.58N±.02 130.80E±.03 67 3.3 **¶97xii4221**
ISC XII 21 18 48 27±2.2 **28.1N**±.21 **130.3E**±.22 **31**±22 **6 0-2**
JMA XII 21 18 48 25.2±.3 28.07N±.01 130.46E±.03 49 2.8 **¶97xii4293**

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
JMA	**XII**	**22 00 57 37.9**±.2	**27.54N**±.01	**130.77E**±.02	**54**	**3.4**		¶97xii4328
ISC	**XII**	**22 23 30 11**±4.1	**25.0N**±.39	**128.5E**±.19	**44**		**4**	**2-3**
JMA	XII	22 23 30 11.3±.8	25.12N±.06	128.52E±.04	44	3.3		¶97xii4504
ISC	Poorly determined							
ISC	**XII**	**23 07 31 42**±1.7	**27.6N**±.35	**128.9E**±.37	**58**±30		**7**	**0-2**
JMA	XII	23 07 31 41.8±.1	27.64N±.02	128.93E±.03	58±2	3.5		¶97xii4563
ISC	**XII**	**23 21 45 08**±2.3	**27.7N**±.38	**128.6E**±.33	**42**		**4**	**0-2**
JMA	XII	23 21 45 07.8±.2	27.65N±.03	128.63E±.03	42	3.0		¶97xii4658
ISC	Poorly determined							
ISC	**XII**	**24 03 40 48**±5.4	**28.7N**±.50	**128.4E**±.32	**106**		**7**	**1-3**
JMA	XII	24 03 40 49.0±.3	28.65N±.02	128.47E±.03	106			¶97xii4697
ISC	**XII**	**24 17 22 57**±1.0	**26.9N**±.10	**129.5E**±.10	**66**		**7**	**1-2**
JMA	XII	24 17 22 57.2±.1	26.89N±.01	129.47E±.01	66	3.1		¶97xii4790
ISC	**XII**	**25 03 55 50**±1.8	**29.6N**±.11	**130.4E**±.28	**77**±37		**7**	**1-2**
JMA	XII	25 03 55 49.7±.2	29.54N±.01	130.60E±.03	62	3.0		¶97xii4862
ISC	**XII**	**25 11 49 58**±2.1	**27.3N**±.30	**128.7E**±.39	**32**		**4**	**1-1**
JMA	XII	25 11 49 57.7±.1	27.25N±.02	128.77E±.02	32±3	2.8		¶97xii4921
ISC	Poorly determined							
ISC	**XII**	**25 17 54 08**±2.7	**29.8N**±.25	**129.6E**±.56	**198**		**7**	**0-3**
JMA	XII	25 17 54 07.2±.3	29.82N±.03	129.38E±.04	198			¶97xii4967
ISC	**XII**	**25 23 27 01.9**±.38	**29.53N**±.046	**129.52E**±.097	**164**±4.3	**3.6b**	**38**	**0-91**
NEIC	XII	25 23 27 01.0	29.64N	129.18E	156	3.4b		¶97xii5004
EIDC	XII	25 23 27 01.8±1.72	29.6N	129.1E	145±17.4	3.5b		
JMA	XII	25 23 27 03.6±.2	29.54N±.01	129.60E±.03	144±3	3.7		
BJI	XII	25 23 27 05.3	29.11N	128.77E	153	4.4b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=28.2km semi−minor=15.3km azimuth=85							
ISC	**XII**	**26 18 48 30.7**±.82	**28.26N**±.094	**129.5E**±.11	**25**±11		**9**	**0-3**
JMA	XII	26 18 48 30.5±.1	28.30N±.01	129.44E±.02	30±2	3.0		¶97xii5189
ISC	**XII**	**27 16 51 29**±1.5	**28.13N**±.098	**130.3E**±.14	**40**±42		**11**	**0-4**
JMA	XII	27 16 51 27.9±.3	28.13N±.01	130.41E±.03	42±3	3.3		¶97xii5318
ISC	**XII**	**28 01 26 07**±5.5	**28.1N**±.30	**128.2E**±.27	**158**±53		**7**	**1-4**
JMA	XII	28 01 26 07.4±.3	28.19N±.03	128.10E±.04	143			¶97xii5374
ISC	**XII**	**28 06 31 35**±4.3	**27.9N**±.14	**130.0E**±.42	**7**		**5**	**0-3**
JMA	XII	28 06 31 34.9±.3	27.85N±.01	130.06E±.03	7±3	2.8		¶97xii5412
ISC	Poorly determined							
ISC	**XII**	**28 12 29 49**±1.5	**27.66N**±.084	**130.8E**±.13	**91**±34		**10**	**1-4**
JMA	XII	28 12 29 49.6±.3	27.67N±.02	130.77E±.04	89±5	2.7		¶97xii5451
ISC	**XII**	**28 12 40 59**±4.7	**27.3N**±.48	**127.5E**±.30	**81**		**4**	**0-1**
JMA	XII	28 12 41 00.2±.5	27.19N±.05	127.53E±.03	81	2.5		¶97xii5454
ISC	Poorly determined							
ISC	**XII**	**28 15 58 42**±1.5	**27.14N**±.099	**128.3E**±.12	**7**±14		**7**	**0-2**
JMA	XII	28 15 58 41.8±.1	27.14N±.01	128.26E±.01	9±2	3.0		¶97xii5474
ISC	**XII**	**28 19 20 16**±1.6	**29.4N**±.11	**130.5E**±.30	**67**±54		**8**	**1-2**
JMA	XII	28 19 20 15.7±.2	29.36N±.01	130.55E±.03	70	2.7		¶97xii5485
ISC	**XII**	**28 22 13 23**±5.3	**27.8N**±.48	**127.1E**±.48	**158**		**5**	**1-2**
JMA	XII	28 22 13 23.0±.2	27.73N±.02	127.13E±.02	158±4			¶97xii5501
ISC	**XII**	**28 22 38 05**±2.2	**25.9N**±.16	**128.6E**±.14	**64**±57		**7**	**1-2**
JMA	XII	28 22 38 05.9±.3	25.97N±.03	128.55E±.02	59	2.9		¶97xii5506
ISC	**XII**	**29 04 24 20**±1.1	**28.3N**±.15	**129.5E**±.19	**22**±18		**5**	**0-2**
JMA	XII	29 04 24 19.7±.1	28.29N±.01	129.46E±.02	29±2	3.0		¶97xii5545
ISC	Poorly determined							
ISC	**XII**	**29 22 36 02**±6.9	**28.0N**±.19	**130.3E**±.64	**45**		**6**	**0-2**
JMA	XII	29 22 36 02.2±.4	27.98N±.01	130.27E±.04	45	3.1		¶97xii5647
JMA	**XII**	**29 23 36 24.9**±.3	**28.18N**±.02	**130.30E**±.02	**33**±2	**3.0**		¶97xii5656
ISC	**XII**	**30 00 32 21**±4.3	**29.4N**±.17	**130.3E**±.77	**60**		**4**	**1-2**
JMA	XII	30 00 32 20.4±.2	29.37N±.01	130.38E±.03	60	2.8		¶97xii5663
ISC	Poorly determined							
JMA	**XII**	**30 04 49 07.3**±.3	**28.19N**±.02	**130.31E**±.03	**44**±2	**3.0**		¶97xii5683
ISC	**XII**	**30 21 24 14.7**±.39	**26.51N**±.059	**126.08E**±.059	**147**±5.7	**3.6b**	**33**	**1-84**
EIDC	XII	30 21 24 14.1±2.20	26.7N	126.0E	123±21.9	3.5b		¶97xii5789
NEIC	XII	30 21 24 14.8	26.57N	126.04E	147	3.6b		
BJI	XII	30 21 24 15.3	26.38N	125.97E	160	4.6b		
JMA	XII	30 21 24 15.8±.4	26.50N±.05	126.03E±.04	127			
EIDC	Error ellipse is semi−major=25.3km semi−minor=16.4km azimuth=82							
NEIC	Less reliable solution.							
JMA	**XII**	**30 21 44 29.5**±.2	**28.28N**±.02	**130.33E**±.02	**46**±2	**2.8**		¶97xii5793
ISC	**XII**	**30 23 09 26**±1.5	**29.6N**±.11	**130.4E**±.25	**78**±35		**8**	**1-2**
JMA	XII	30 23 09 25.5±.2	29.51N±.01	130.55E±.03	66±4	2.9		¶97xii5796
ISC	**XII**	**31 00 28 19**±3.9	**28.5N**±.32	**128.5E**±.18	**8**		**5**	**1-3**
JMA	XII	31 00 28 18.9±.4	28.51N±.03	128.40E±.03	8	2.8		¶97xii5805
ISC	Poorly determined							
ISC	**XII**	**31 02 53 05**±1.2	**26.3N**±.19	**126.5E**±.15	**103**±21		**12**	**0-4**
JMA	XII	31 02 53 05.4±.3	26.28N±.04	126.41E±.03	86±4	3.7		¶97xii5825
ISC	**XII**	**31 15 05 50**±1.0	**26.3N**±.10	**128.64E**±.079	**39**		**10**	**1-4**
JMA	XII	31 15 05 49.6±.3	26.27N±.02	128.68E±.02	39	3.4		¶97xii5916

(239) Ryūkyū Islands region.

ISC	**VII**	**03 17 23 33.2**±.69	**28.47N**±.054	**131.1E**±.11	**72**±35		**29**	**1-8**
JMA	VII	03 17 23 33.4±.2	28.49N±.02	131.02E±.03	86			¶97vii0432
JMA	**VII**	**14 17 58 02.9**±.3	**28.05N**±.02	**131.07E**±.02	**92**			¶97vii2184
ISC	**VII**	**18 20 51 45**±1.6	**25.7N**±.19	**129.54E**±.097	**44**		**7**	**2-3**
JMA	VII	18 20 51 44.9±.3	25.76N±.04	129.56E±.02	44	3.3		¶97vii2790
ISC	**VII**	**20 18 45 54**±5.4	**28.8N**±.26	**131.7E**±.54	**93**		**8**	**2-3**
JMA	VII	20 18 45 54.5±.2	28.83N±.01	131.68E±.02	93			¶97vii3135
ISC	**VIII**	**13 23 10 25**±4.5	**24.8N**±.38	**128.1E**±.21	**74**		**7**	**1-3**
JMA	VIII	13 23 10 27.7±.8	25.01N±.06	128.06E±.05	74			¶97viii1975
JMA	**VIII**	**25 20 02 33.4**±.3	**23.95N**±.03	**126.32E**±.03	**67**			¶97viii3736
JMA	**IX**	**01 00 12 52.3**±.3	**29.90N**±.01	**131.40E**±.02	**33**±4	**2.9**		¶97ix0003
ISC	**IX**	**10 22 14 01**±1.1	**25.0N**±.14	**127.1E**±.12	**75**±40		**14**	**1-7**
JMA	IX	10 22 14 02.0±.3	25.13N±.03	126.97E±.03	63			¶97ix1586
JMA	**IX**	**10 22 44 39.0**±.6	**25.73N**±.03	**129.27E**±.04	**59**	**3.0**		¶97ix1592
ISC	**IX**	**12 05 05 49**±1.1	**26.7N**±.12	**130.2E**±.11	**57**		**7**	**1-3**
JMA	IX	12 05 05 48.3±.1	26.68N±.02	130.21E±.02	57	3.6		¶97ix1774
EIDC	**IX**	**14 17 49 15.5**	**25.8N**	**129.2E**	**0**	**3.4b**,3.3L		¶97ix2152
ISC	**IX**	**19 03 54 32.4**±.79	**29.71N**±.061	**131.73E**±.099	**64**±41		**34**	**1-5**
JMA	IX	19 03 54 32.9±.1	29.77N±.01	131.72E±.01	50	3.5		¶97ix2747
ISC	**IX**	**28 10 59 44**±4.1	**24.8N**±.31	**127.9E**±.18	**70**		**8**	**1-4**
JMA	IX	28 10 59 48.5±.4	25.13N±.03	127.83E±.02	70			¶97ix4623
ISC	**X**	**01 19 05 55**±3.2	**29.2N**±.15	**131.4E**±.34	**58**		**7**	**1-3**
JMA	X	01 19 05 54.7±.2	29.23N±.01	131.36E±.02	58	2.8		¶97x0140
JMA	**X**	**03 04 39 11.0**±.0	**28.83N**±.00	**131.02E**±.00	**41**	**2.8**		¶97x0388
ISC	**X**	**05 19 16 49**±1.0	**26.6N**±.11	**130.06E**±.097	**44**		**9**	**1-3**
JMA	X	05 19 16 48.4±.1	26.60N±.01	130.07E±.01	44	3.3		¶97x0917
ISC	**X**	**10 00 22 50**±6.0	**27.8N**±.30	**131.5E**±.52	**99**		**6**	**1-3**
JMA	X	10 00 22 52.9±.5	27.99N±.03	131.28E±.04	99			¶97x1666
ISC	**X**	**12 20 53 13.9**±.63	**24.84N**±.066	**127.45E**±.076	**64**	**3.9b**	**22**	**1-158**
JMA	X	12 20 53 12.9±.5	24.70N±.03	127.54E±.03	64	3.6		¶97x2102
EIDC	X	12 20 53 17.3	24.2N	126.3E	38	3.7b		
JMA	**X**	**14 17 00 49.3**±.4	**28.82N**±.02	**131.19E**±.04	**81**	**2.8**		¶97x2451
JMA	**X**	**20 10 37 40.9**±.5	**29.68N**±.03	**131.17E**±.04	**77**	**2.6**		¶97x3483
ISC	**X**	**24 03 50 01**±2.2	**29.5N**±.13	**131.3E**±.27	**77**±58		**11**	**1-3**
JMA	X	24 03 50 00.3±.2	29.46N±.01	131.34E±.02	72±4	3.1		¶97x4105
ISC	**XI**	**01 19 40 40**±1.8	**26.75N**±.085	**130.09E**±.096	**79**±58		**11**	**1-4**
JMA	XI	01 19 40 40.3±.2	26.75N±.01	130.05E±.01	44	3.7		¶97xi0132
ISC	**XI**	**04 07 34 12.7**±.39	**23.77N**±.042	**126.89E**±.057	**42**±2.2*	**4.3b,3.9s**	**43**	**2-86**
BJI	XI	04 07 34 12.6	23.99N	126.85E	17	4.6b		¶97xi0594
NEIC	XI	04 07 34 13.1	23.75N	127.00E	43	4.5b		
JMA	XI	04 07 34 14.3±.6	24.08N±.05	126.54E±.03	133			
EIDC	XI	04 07 34 15.0	23.7N	126.8E	40	4.1b,3.8s		
NEIC	Less reliable solution.							
ISC	**XI**	**05 14 21 34**±1.5	**29.75N**±.083	**131.7E**±.19	**64**±57		**18**	**1-4**
JMA	XI	05 14 21 35.2±.2	29.81N±.01	131.60E±.02	67±4	3.3		¶97xi0817
JMA	**XI**	**09 23 25 11.0**±.3	**23.79N**±.03	**126.18E**±.02	**42**	**2.9**		¶97xi1525
ISC	**XI**	**14 02 52 24**±2.1	**29.7N**±.13	**131.0E**±.29	**84**±41		**9**	**1-3**
JMA	XI	14 02 52 24.2±.1	29.62N±.01	131.07E±.02	71±4	2.9		¶97xi2228
JMA	**XI**	**15 03 15 14.1**±.3	**29.97N**±.02	**131.83E**±.03	**69**	**2.6**		¶97xi2407
ISC	**XII**	**05 18 58 48**±6.9	**30.0N**±.38	**131.8E**±.53	**63**		**6**	**1-2**
JMA	XII	05 18 58 47.7±.2	29.94N±.01	131.82E±.02	63	3.0		¶97xii1030
ISC	**XII**	**08 15 52 53**±4.4	**25.63N**±.098	**129.40E**±.077	**6**±29	**3.8b**	**18**	**2-79**
JMA	XII	08 15 52 54.6±.3	25.66N±.03	129.44E±.02	48	4.0		¶97xii1957
NEIC	XII	08 15 52 57.3	25.74N	129.29E	33	3.7b		
BJI	XII	08 15 52 58.1	26.26N	129.27E	24			
EIDC	XII	08 15 53 00.5±4.04	25.8N	129.1E	40±35.8	3.6b,3.7L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=48.7km semi−minor=25.3km azimuth=82Multiple, mixed az							
ISC	**XII**	**09 22 37 42**±5.7	**24.7N**±.43	**127.4E**±.29	**80**		**6**	**1-4**
JMA	XII	09 22 37 44.6±.5	24.98N±.03	127.50E±.03	80	3.2		¶97xii2250
ISC	**XII**	**18 23 41 29**±3.2	**29.2N**±.19	**131.1E**±.33	**73**		**5**	**1-3**
JMA	XII	18 23 41 29.4±.3	29.23N±.02	131.10E±.03	73	2.8		¶97xii3856

(240) East of Ryūkyū Islands.

ISC	**X**	**14 02 59 31**±1.7	**29.0N**±.13	**132.1E**±.15	**70**		**14**	**2-5**
JMA	X	14 02 59 32.2±.3	28.99N±.01	132.01E±.03	70	3.3		¶97x2325

(241) Philippine Sea.

EIDC	**VII**	**29 03 57 03.6**	**16.8N**	**131.5E**	**0**	**3.5b**,3.0s		**37-49**
								¶97vii4380
ISC	**VIII**	**29 03 00 03**±1.4	**22.5N**±.17	**127.3E**±.83	**33**	**3.7b**	**4**	**38-68**
EIDC	VIII	29 02 59 59.9	22.6N	127.4E	0	3.9b		¶97viii4228
ISC	Poorly determined							

SEISMIC REGION 21. TAIWAN.

(242) Near south-eastern coast of China.

BJI	**VII**	**01 02 04 55.8**	**25.56N**	**117.20E**	**32**	**4.1L,3.9s**		¶97vii0010
BJI	**VII**	**01 13 19 11.9**	**25.65N**	**117.25E**	**22**	**3.1L**		¶97vii0095
BJI	**VII**	**06 09 50 19.1**	**25.55N**	**117.18E**	**15**	**3.1L**		¶97vii0859
BJI	**VII**	**18 20 35 06.4**	**23.49N**	**115.02E**	**15**	**3.6L**		¶97vii2789
BJI	**VIII**	**09 12 04 02.0**	**25.66N**	**117.19E**	**24**	**3.2L**		¶97viii1245
ISC	**VIII**	**11 00 52 33.0**±.98	**24.1N**±.11	**114.6E**±.10	**15**		**6**	**2-11**
BJI	VIII	11 00 52 33.6	24.00N	114.46E	15	4.4L,4.2b		¶97viii1485
BJI	Ms4.0							
BJI	**IX**	**09 20 26 34.3**	**25.46N**	**117.21E**	**20**	**3.1L**		¶97ix1437
ISC	**IX**	**26 05 26 50.1**±.53	**23.26N**±.070	**112.85E**±.085	**19**	**4.0b**	**19**	**0-79**
BJI	IX	26 05 26 49.2	23.33N	112.92E	19	4.8L,4.8b		¶97ix3883
EIDC	IX	26 05 26 49.5	23.1N	112.9E	0	4.0b,3.9L		
NEIC	IX	26 05 26 52.4	23.19N	112.87E	33	4.2b		
BJI	Ms4.2							
NEIC	Less reliable solution.							
ISC	**X**	**15 11 55 28**±1.1	**25.1N**±.14	**119.3E**±.20	**33**	**3.2b**	**5**	**14-51**
EIDC	X	15 11 55 26.0	25.1N	119.3E	0	3.0b,3.5L		¶97x2623
NEIC	X	15 11 55 27.9	25.14N	119.28E	33	3.3b		
NEIC	Less reliable solution.							
BJI	**XI**	**24 13 44 15.1**	**22.53N**	**112.16E**	**7**	**3.3L**		¶97xi4328
BJI	**XI**	**24 15 16 32.7**	**23.89N**	**114.50E**	**5**	**3.4L**		¶97xi4338
BJI	**XI**	**26 03 26 37.6**	**22.05N**	**112.06E**	**17**	**3.3L**		¶97xi4619
BJI	**XII**	**03 09 18 00.1**	**25.50N**	**117.19E**	**14**	**3.1L**		¶97xii0397
BJI	**XII**	**03 09 28 29.7**	**25.42N**	**117.26E**	**12**	**3.4L**		¶97xii0398
BJI	**XII**	**17 02 29 13.8**	**24.86N**	**115.88E**	**4**	**3.7L**		¶97xii3538
BJI	**XII**	**27 13 31 56.4**	**25.94N**	**119.32E**	**15**	**3.5L**		¶97xii5296

(243) Taiwan region.

TAP	**VII**	**01 05 53 51.2**	**24.77N**	**122.22E**	**3**	**3.0L**		**180-0**
								¶97vii0036
TAP	**VII**	**01 15 26 30.0**	**21.11N**	**121.78E**	**53**	**3.4L**		**180-0**
								¶97vii0110
TAP	**VII**	**02 05 24 58.7**	**21.67N**	**121.34E**	**10**	**3.0L**		**180-0**
								¶97vii0185
ISC	**VII**	**02 09 03 29**±1.6	**24.0N**±.12	**122.4E**±.19	**23**	3.4b	**8**	**1-49**
TAP	VII	02 09 03 24.3	24.27N	122.14E	4	4.0L		¶97vii0208
JMA	VII	02 09 03 26.6±.7	24.97N±.05	122.30E±.05	23	3.5		
EIDC	VII	02 09 03 30.1	23.8N	123.4E	0	3.4b,3.6L		
ISC	**VII**	**03 05 09 55**±2.5	**24.6N**±.45	**122.9E**±.23	**90**		**5**	**0-2**
JMA	VII	03 05 09 55.2±.3	24.62N±.04	122.93E±.02	90±3			¶97vii0361
ISC	**VII**	**04 19 17 49**±4.4	**24.9N**±.92	**122.1E**±.52	**106**±55	3.7b	**6**	**1-82**
TAP	VII	04 19 17 52.4	24.81N	122.29E	95	3.3L		¶97vii0607
JMA	VII	04 19 17 53.7±.4	24.80N±.06	122.39E±.03	94			
ISC	Poorly determined							
TAP	**VII**	**07 09 22 47.4**	**23.59N**	**122.47E**	**174**	**3.3L**		**180-0**
								¶97vii1021
ISC	**VII**	**07 17 15 14**±9.4	**24.0N**±.59	**123.0E**±.52	**23**±22		**5**	**0-2**
JMA	VII	07 17 15 11.7±.3	23.99N±.03	122.80E±.02	42±4	2.9		¶97vii1068
ISC	Poorly determined							
ISC	**VII**	**08 03 59 31**±1.0	**22.82N**±.059	**121.4E**±.16	**20**±18		**11**	**0-2**
TAP	VII	08 03 59 30.6	22.82N	121.37E	15	3.5L		¶97vii1138
TAP	Felt I=II J Chengkung							
ISC	**VII**	**08 16 26 30.6**±.38	**24.02N**±.031	**122.42E**±.031	**43**±4.0	**4.6b,4.6s**	**105**	**1-111**
TAP	VII	08 16 26 27.3	23.92N	122.43E	2	5.1L		¶97vii1209
BJI	VII	08 16 26 28.5	24.03N	122.57E	29	4.6L,4.7b		
NEIC	VII	08 16 26 29.6	24.03N	122.33E	33	4.9b		
JMA	VII	08 16 26 29.7±.5	24.14N±.04	122.32E±.03	49±4	4.9		
MOS	VII	08 16 26 29.9	24.1N	122.4E	33	5.0b,4.7s		

EIDC VII 08 16 26 34.4 24.0N 122.4E 64 4.2b,4.4s
TAP Felt I=II J
BJI Ms4.6
JMA VII 08 18 41 11.8±.4 **24.07N**±.03 **122.41E**±.03 **39** **3.2** ¶97vii1218
TAP VII 08 18 41 10.8 23.94N 122.36E 16 3.6L
ISC VII 08 19 05 31±1.7 **22.27N**±.096 **121.0E**±.14 **8**±8.8 **13 0-3**
TAP VII 08 19 05 30.0 22.25N 121.08E 13 4.1L ¶97vii1220
TAP Felt I=II J Tawu
ISC VII 08 19 28 23±1.1 **24.05N**±.098 **122.40E**±.089 **49**±12 **3.9b** **18 1-79**
BJI VII 08 19 28 21.1 23.89N 122.54E 133 ¶97vii1226
TAP VII 08 19 28 21.4 23.91N 122.43E 14 4.4L
JMA VII 08 19 28 23.3±.5 24.19N±.04 122.37E±.03 55 3.9
NEIC VII 08 19 28 33.8 24.03N 122.59E 150
EIDC VII 08 19 28 40.5 24.2N 123.0E 199 3.5b,3.4s
NEIC Poor solution.
JMA VII 09 05 13 50.8±.5 **23.98N**±.02 **122.43E**±.03 **19** **3.2** ¶97vii1284
TAP VII 09 05 13 44.9 23.89N 122.57E 4 3.7L
TAP VII 10 04 06 25.7 22.94N 121.39E 23 3.0L 180-0
¶97vii1444
ISC VII 10 08 19 54.5±.21 **21.80N**±.026 **121.57E**±.028 **5** **4.8b,4.7s** **193 0-175**
TAP VII 10 08 19 53.6 21.79N 121.62E 5 4.9L ¶97vii1478
EIDC VII 10 08 19 54.4 21.8N 121.8E 0 4.4b,4.5s
BJI VII 10 08 19 56.3 21.77N 121.45E 17 4.2L,4.9b
NEIC VII 10 08 19 57.9 21.78N 121.74E 33 4.8b
MOS VII 10 08 20 01.5 22.2N 121.3E 33 5.5b,4.8s
TAP Felt I=IV J Lanyu
BJI Ms4.7
ISC VII 10 19 35 07±1.2 **22.0N**±.12 **121.08E**±.085 **17**±17 **10 0-2**
TAP VII 10 19 35 07.5 22.06N 121.08E 17 3.6L ¶97vii1553
TAP Felt I=II J Henchung
ISC VII 10 20 35 09±4.5 **24.9N**±.55 **123.0E**±.31 **120** **5 0-2**
JMA VII 10 20 35 08.7±.3 25.02N±.04 122.95E±.02 120 ¶97vii1562
TAP VII 11 00 05 45.2 21.87N 121.62E 14 3.1L 180-0
¶97vii1594
ISC VII 11 22 41 58±1.4 **24.5N**±.14 **122.3E**±.30 **33** 3.9b **4 16-59**
EIDC VII 11 22 41 55.4 24.4N 122.3E 0 3.8b,4.4L ¶97vii1737
ISC Poorly determined
JMA VII 12 23 52 32.1±.4 **24.81N**±.05 **122.16E**±.03 **75** ¶97vii1891
TAP VII 12 23 52 32.5 24.74N 122.08E 67 3.3L
ISC VII 13 12 40 18±4.1 **24.6N**±.50 **122.7E**±.36 **88** **5 0-2**
TAP VII 13 12 40 17.7 24.56N 122.62E 76 3.1L ¶97vii1970
JMA VII 13 12 40 18.2±.3 24.63N±.04 122.68E±.02 88±3
TAP VII 13 20 07 41.3 21.95N 121.50E 8 2.7L ¶97vii2020
TAP Felt I=II J Lanyu
JMA VII 13 21 02 09.5±.1 **24.85N**±.03 **122.43E**±.01 **103**±2 ¶97vii2024
TAP VII 14 14 24 57.6 21.42N 121.84E 27 3.8L 180-0
¶97vii2148
ISC VII 14 15 35 54±3.6 **24.7N**±.44 **122.8E**±.29 **94** **5 0-2**
JMA VII 14 15 35 54.3±.4 24.72N±.06 122.81E±.02 94±4 ¶97vii2163
ISC VII 14 18 41 44±1.2 **24.03N**±.099 **122.21E**±.088 **44**±12 **3.8b** **22 1-178**
EIDC VII 14 18 41 40.0 23.8N 121.7E 0 3.7b,3.7L ¶97vii2189
BJI VII 14 18 41 40.6 24.03N 122.31E 11 3.3L,4.0b
TAP VII 14 18 41 41.7 23.94N 122.34E 3 4.0L
NEIC VII 14 18 41 42.7 23.93N 121.72E 33
JMA VII 14 18 41 43.6±.2 24.06N±.02 122.25E±.01 30±3 3.9
NEIC Single network solution.
TAP VII 15 07 00 21.2 24.70N 122.24E 76 3.0L 180-0
¶97vii2266
ISC VII 15 11 05 31.3±.19 **24.75N**±.019 **122.55E**±.018 **104**±1.9 **5.5b** **655 0-178**
NEIC VII 15 11 05 31.3 24.71N 122.45E 103 5.6b ¶97vii2296
MOS VII 15 11 05 31.6 24.8N 122.5E 100 5.6b
BJI VII 15 11 05 31.6 24.68N 122.52E 111 5.5b
JMA VII 15 11 05 32.4±.4 24.86N±.02 122.55E±.03 88 5.4
EIDC VII 15 11 05 32.9 24.8N 122.7E 109 5.0b,4.6s
TAP VII 15 11 05 33.4 24.62N 122.52E 87 6.1L
HRVD VII 15 11 05 33.7±.2 24.52N±.02 122.28E±.02 109±1.4
NEIC MB6.2(BRK), Mw5.6(GS). Felt I=V MM.
NEIC Mw 5.6 (HRV). Mb 6.2 (BRK). Felt I=III J in eastern Hua-lien and I-lan; I J in the western part of Taiwan. Felt in much of Taiwan.
NEIC Moment tensor solution: s19, scale 10^{17}Nm; M_{rr}1.66; $M_{\theta\theta}$0.06; $M_{\phi\phi}$−1.73; $M_{r\theta}$0.57; $M_{r\phi}$−1.95; $M_{\theta\phi}$0.09. Depth 93km; Principal axes: T 2.65,Plg64°,Azm65°; N 0.01,Plg7°, Azm169°; P −2.65,Plg25°,Azm263°. Best double couple: $M_0$2.7×10^{17}Nm; NP1:ϕ_S8°,δ21°, λ110°. NP2:ϕ_S167°,δ70°,λ83°.
JMA Felt I=I J1
TAP Felt I=III J Ilan, Sun Moon Lake, Hwalien, Chengkung, II Suao, Taipei, Lanyu, Chiayi, Chiawan, Taichen, Hsinchu, Neicheng, Taichung, Alishan, I Santiao Chiao
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c83; Mantle waves: s6,c6; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}1.44±.04; $M_{\theta\theta}$−0.05±.06; $M_{\phi\phi}$−1.40±.08; $M_{r\theta}$0.63±.04; $M_{r\phi}$−1.84±.05; $M_{\theta\phi}$−0.44±.06. Principal Axes: T 2.57,Plg59°,Azm57°; N −0.26,Plg16°,Azm176°; P −2.31,Plg26°,Azm273°. Best double couple: $M_0$2.4×10^{17}Nm, NP1:ϕ_S35°,δ24°,λ132°. NP2:ϕ_S170°,δ72°,λ73°.
ISC VII 16 09 43 46±9.5 **24.7N**±.73 **122.4E**±.75 **88** **5 1-2**
TAP VII 16 09 43 44.4 24.64N 122.39E 88 3.9L ¶97vii2416
JMA VII 16 09 43 45.5±.3 24.78N±.05 122.40E±.03 88±4
TAP VII 16 10 25 35.0 21.50N 121.45E 43 3.2L 180-0
¶97vii2422
ISC VII 16 11 31 44.2±.94 **24.25N**±.056 **122.22E**±.045 **5**±9.3 **19 0-2**
JMA VII 16 11 31 44.9±.5 24.73N±.07 122.19E±.04 41 3.2 ¶97vii2436
TAP VII 16 11 31 45.3 24.33N 122.04E 2 3.3L
TAP Felt I=II J
ISC VII 16 21 57 48±5.0 **24.7N**±.80 **123.0E**±.28 **92** **4 0-1**
JMA VII 16 21 57 47.5±.2 24.76N±.04 122.97E±.02 92±3 ¶97vii2502
ISC Poorly determined
TAP VII 16 23 40 11.9 22.24N 121.40E 10 3.1L 180-0
¶97vii2516
TAP VII 17 23 36 38.4 22.12N 121.36E 10 3.2L 180-0
¶97vii2663
ISC VII 18 06 05 44±4.7 **24.6N**±.50 **122.7E**±.38 **83** **5 0-2**
TAP VII 18 06 05 42.6 24.43N 122.68E 75 3.2L ¶97vii2704
JMA VII 18 06 05 43.9±.3 24.63N±.04 122.75E±.02 83±3
TAP VII 18 18 01 19.6 24.14N 122.26E 19 3.3L 180-0
¶97vii2773
JMA VII 19 00 54 27.3±.8 **24.94N**±.04 **122.81E**±.05 **27** **2.9** ¶97vii2806
ISC VII 19 01 09 52±1.4 **24.8N**±.13 **123.0E**±.11 **25**±12 **3.7b** **15 0-146**
JMA VII 19 01 09 48.7±.3 25.00N±.02 122.87E±.02 24 3.2 ¶97vii2808
BJI VII 19 01 10 00.8 24.74N 123.03E 127 4.4b
NEIC VII 19 01 10 06.8 24.56N 123.19E 150
EIDC VII 19 01 10 07.2 24.7N 123.3E 151 3.2b,3.5s
NEIC Less reliable solution.
ISC VII 19 01 15 15±15 **25.0N**±.78 **122.9E**±.72 **20** **4 1-1**

JMA VII 19 01 15 15.3±.3 25.03N±.02 122.88E±.02 20 2.9 ¶97vii2812
ISC Poorly determined
JMA VII 19 01 28 44.4±.9 **23.79N**±.05 **122.30E**±.05 **0** **2.8** ¶97vii2815
TAP VII 19 01 28 44.3 24.42N 121.91E 20 3.6L
JMA VII 19 06 04 02.0±.4 **24.31N**±.05 **122.40E**±.03 **54** **2.8** ¶97vii2837
TAP VII 19 06 03 59.1 23.98N 122.52E 7 3.1L
TAP VII 19 11 18 54.5 24.83N 122.86E 10 3.2L 180-0
¶97vii2863
TAP VII 20 01 55 54.1 24.75N 122.30E 92 3.1L 180-0
¶97vii2988
ISC VII 20 23 11 27±4.6 **24.9N**±.57 **123.0E**±.31 **121** **5 0-2**
JMA VII 20 23 11 27.1±.3 24.96N±.04 122.97E±.02 121±4 ¶97vii3157
TAP VII 22 12 31 49.5 24.29N 122.12E 9 3.4L 180-0
¶97vii3379
JMA VII 22 17 17 51.7±.8 **24.76N**±.07 **122.38E**±.06 **18** **3.6** ¶97vii3399
TAP VII 22 17 17 54.1 24.62N 122.37E 2 3.4L
JMA VII 22 23 07 51.2±.2 **24.24N**±.04 **122.73E**±.01 **76** ¶97vii3448
TAP VII 23 02 10 42.0 21.17N 121.79E 147 3.5L 180-0
¶97vii3468
TAP VII 23 02 42 34.1 24.84N 122.62E 3 3.6L 180-0
¶97vii3470
JMA VII 23 04 50 38.8±.2 **23.34N**±.02 **122.15E**±.02 **58** **3.2** ¶97vii3483
TAP VII 23 04 50 37.5 23.38N 121.99E 13 3.4L
TAP VII 23 12 50 59.9 24.73N 122.62E 1 3.0L 180-0
¶97vii3529
TAP VII 24 04 32 18.4 25.72N 120.73E 81 3.0L 180-0
¶97vii3614
TAP VII 24 04 38 38.5 24.05N 122.97E 31 3.1L 180-0
¶97vii3615
TAP VII 24 04 54 22.9 24.91N 122.99E 11 3.0L 200-0
¶97vii3620
TAP VII 24 04 56 58.3 24.75N 122.70E 6 3.4L 180-0
¶97vii3621
TAP VII 24 05 05 32.2 24.89N 122.84E 9 3.4L 180-0
¶97vii3623
TAP VII 24 05 14 28.1 24.73N 122.55E 11 3.0L 180-0
¶97vii3624
TAP VII 24 06 51 03.0 24.79N 122.28E 5 3.3L 180-0
¶97vii3633
TAP VII 24 11 29 11.4 25.04N 122.68E 139 3.2L 180-0
¶97vii3665
TAP VII 24 15 31 25.8 25.18N 122.11E 172 3.2L 180-0
¶97vii3690
JMA VII 25 04 59 07.3±.5 **24.13N**±.04 **122.29E**±.03 **34** **3.1** ¶97vii3774
TAP VII 25 04 59 06.7 24.07N 122.28E 18 3.1L
ISC VII 25 18 29 13±1.2 **22.06N**±.084 **121.51E**±.086 **8** **10 0-3**
TAP VII 25 18 29 11.8 22.09N 121.70E 8 3.4L ¶97vii3859
TAP Felt I=II J Lanyu
JMA VII 25 21 11 43.6±.3 **24.31N**±.04 **122.22E**±.02 **67** ¶97vii3880
TAP VII 25 21 11 42.5 24.12N 122.13E 43 3.3L
TAP VII 26 02 06 15.7 22.91N 121.02E 18 3.0L 180-0
¶97vii3899
ISC VII 26 15 03 08±4.0 **24.5N**±.53 **122.6E**±.38 **95** **5 0-2**
TAP VII 26 15 03 07.9 24.59N 122.56E 85 3.3L ¶97vii3975
JMA VII 26 15 03 08.1±.2 24.60N±.03 122.60E±.01 95±2
TAP VII 27 04 40 25.7 24.05N 122.25E 25 3.1L 180-0
¶97vii4056
TAP VII 27 11 59 05.0 24.77N 122.28E 9 3.2L 180-0
¶97vii4103
ISC VII 27 22 00 43.3±.80 **24.91N**±.058 **122.48E**±.045 **26**±8.6 **3.9b** **31 1-59**
BJI VII 27 22 00 17.8 20.42N 119.91E 15 4.2L ¶97vii4169
JMA VII 27 22 00 40.3±.9 24.94N±.07 122.29E±.07 23 3.8
TAP VII 27 22 00 43.1 24.79N 122.42E 4 4.4L
EIDC VII 27 22 01 10.5 27.6N 130.2E 421 3.0b
TAP Felt I=III J
JMA VII 27 22 59 06.0±.5 **23.93N**±.04 **122.13E**±.03 **47** **3.7** ¶97vii4174
TAP VII 27 22 59 07.3 23.92N 122.29E 13 3.9L
JMA VII 27 23 43 55.9±.7 **24.74N**±.06 **122.36E**±.05 **17** **2.9** ¶97vii4181
TAP VII 27 23 43 59.3 24.58N 122.41E 3 3.1L
JMA VII 28 01 16 23.5±.4 **24.04N**±.03 **122.92E**±.02 **30** **3.0** ¶97vii4192
TAP VII 28 01 15 36.6 21.77N 121.48E 16 3.3L
TAP VII 28 03 13 41.2 24.80N 122.27E 4 3.0L 180-0
¶97vii4201
TAP VII 28 12 50 14.8 24.81N 122.45E 19 3.3L 180-0
¶97vii4275
JMA VII 28 13 47 10.4±.7 **24.71N**±.06 **122.38E**±.05 **20** **2.8** ¶97vii4281
JMA VII 28 17 02 52.6±.2 **24.74N**±.04 **122.75E**±.02 **98** ¶97vii4305
ISC VII 28 21 28 51±1.3 **24.7N**±.11 **123.0E**±.14 **21** **5 0-7**
JMA VII 28 21 28 45.8±.6 24.97N±.03 122.74E±.04 21 3.2 ¶97vii4330
TAP VII 28 21 28 46.0 24.81N 122.73E 3 3.7L
ISC VII 28 23 19 21±6.7 **25.0N**±.67 **122.6E**±.45 **110** **5 1-2**
TAP VII 28 23 19 18.1 24.80N 122.60E 133 3.5L ¶97vii4338
JMA VII 28 23 19 19.8±.3 25.16N±.04 122.57E±.03 110
JMA VII 29 04 09 41.8±.8 **25.15N**±.08 **122.09E**±.08 **14** **3.2** ¶97vii4381
TAP VII 29 04 09 42.6 24.77N 121.89E 12 3.5L
ISC VII 29 12 19 15±6.3 **24.9N**±.93 **123.0E**±.38 **120** **5 0-2**
JMA VII 29 12 19 14.7±.3 24.84N±.05 122.98E±.01 120±4 ¶97vii4429
ISC Poorly determined
TAP VII 29 17 16 42.3 25.07N 122.47E 18 3.3L 180-0
¶97vii4453
TAP VII 29 20 44 04.1 24.76N 122.61E 2 3.0L 180-0
¶97vii4480
TAP VII 29 22 38 34.3 22.04N 121.37E 11 3.0L 180-0
¶97vii4494
JMA VII 30 14 50 57.1±.4 **24.92N**±.02 **122.54E**±.03 **28** **3.2** ¶97vii4591
TAP VII 30 14 50 56.8 24.77N 122.38E 3 3.5L
ISC VII 30 17 32 12±1.1 **23.96N**±.074 **122.61E**±.082 **54**±9.9 **4.2b**,4.1s **44 1-90**
BJI VII 30 17 32 06.0 23.76N 122.84E 29 4.1L,4.4b ¶97vii4615
TAP VII 30 17 32 07.7 23.76N 122.48E 13 4.7L
NEIC VII 30 17 32 09.2 23.89N 122.51E 33 4.7b
JMA VII 30 17 32 10.2±.6 23.97N±.05 122.49E±.04 61
EIDC VII 30 17 32 14.7 24.0N 122.6E 70 3.8b,4.2L
BJI Ms4.1
NEIC Less reliable solution.
JMA VII 30 18 11 46.1±.6 **24.74N**±.05 **122.40E**±.04 **20** **3.1** ¶97vii4617
TAP VII 30 18 11 48.7 24.63N 122.32E 3 3.3L
TAP VIII 01 21 56 35.3 22.12N 121.76E 71 3.0L 180-0
¶97viii0122
TAP VIII 01 23 16 52.3 22.32N 121.15E 12 3.1L 180-0
¶97viii0131

Agency	mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
TAP	**VIII 02 18 22 29.1**	**24.13N**	**122.02E**	**43**	**3.1L**		**180-0**	
								¶97viii0246
ISC	**VIII 04 08 08 52±2.8**	**23.2N±.20**	**122.0E±.41**	**60**		**6**	**1-3**	
TAP	VIII 04 08 08 53.7	23.32N	122.11E	17	4.3L			¶97viii0474
JMA	VIII 04 08 08 55.9±.3	23.40N±.02	122.27E±.02	60	3.6			
ISC	**VIII 04 20 38 47±11**	**24.3N±.70**	**122.5E±.96**	**51**		**4**	**0-1**	
TAP	VIII 04 20 38 46.1	23.91N	122.51E	8	3.1L			¶97viii0548
JMA	VIII 04 20 38 47.4±.4	24.22N±.05	122.54E±.03	51±4	2.9			
ISC	Poorly determined							
TAP	**VIII 04 20 54 25.1**	**21.95N**	**121.35E**	**4**	**3.0L**		**180-0**	
								¶97viii0551
TAP	**VIII 04 22 28 21.0**	**24.28N**	**122.10E**	**99**	**3.0L**		**180-0**	
								¶97viii0562
TAP	**VIII 04 22 35 43.0**	**24.86N**	**122.35E**	**3**	**3.3L**		**180-0**	
								¶97viii0564
TAP	**VIII 04 23 28 54.9**	**24.89N**	**122.80E**	**8**	**3.8L**		**180-0**	
								¶97viii0575
JMA	**VIII 05 00 20 06.4±.3**	**24.11N±.02**	**122.54E±.02**	**41**	**2.9**			¶97viii0583
TAP	VIII 05 00 20 03.8	23.86N	122.56E	4	3.3L			
TAP	**VIII 05 07 45 11.5**	**21.75N**	**121.10E**	**5**	**3.4L**		**180-0**	
								¶97viii0631
ISC	**VIII 05 19 53 12.1±.90**	**22.98N±.037**	**121.45E±.083**	**19±9.2**	**3.3b**		**24 0-48**	
BJI	VIII 05 19 53 09.2	23.13N	121.57E	15	3.3L			¶97viii0703
TAP	VIII 05 19 53 12.7	23.03N	121.31E	18	3.8L			
TAP	Felt I=III J Chengkung							
ISC	**VIII 05 19 55 48±5.9**	**23.9N±.53**	**122.1E±.33**	**45**		**6**	**1-17**	
TAP	VIII 05 19 55 51.6	23.88N	122.53E	10	3.9L			¶97viii0705
JMA	VIII 05 19 55 52.9±.6	24.08N±.04	122.51E±.04	45	3.8			
ISC	**VIII 06 01 02 50±1.5**	**23.9N±.16**	**122.43E±.077**	**4**	**3.7b**		**10 1-72**	
EIDC	VIII 06 01 02 40.7	22.6N	123.0E	0	3.5b,4.6L			¶97viii0742
BJI	VIII 06 01 02 52.1	24.11N	122.57E	4	3.5L			
TAP	VIII 06 01 02 52.4	23.89N	122.52E	9	4.1L			
JMA	VIII 06 01 02 54.2±.7	24.03N±.04	122.57E±.04	33	4.0			
TAP	**VIII 06 15 04 57.2**	**22.98N**	**121.43E**	**15**	**3.5L**		**180-0**	
								¶97viii0811
TAP	**VIII 06 15 21 14.1**	**22.72N**	**121.35E**	**87**	**3.6L**		**180-0**	
								¶97viii0815
ISC	**VIII 07 00 31 28±2.6**	**23.69N±.097**	**122.0E±.20**	**28±11**		**18**	**0-2**	
TAP	VIII 07 00 31 29.1	23.75N	121.90E	32	4.3L			¶97viii0862
TAP	Felt I=II J, I Hwalien, Chiawan							
JMA	**VIII 08 06 32 42.6±.4**	**24.00N±.04**	**122.09E±.03**	**81**				¶97viii1065
TAP	VIII 08 06 32 41.1	23.87N	121.95E	27	3.5L			
TAP	**VIII 08 19 44 56.0**	**22.24N**	**119.76E**	**19**	**3.0L**		**180-0**	
								¶97viii1157
EIDC	**VIII 09 11 01 07.0**	**25.2N**	**120.0E**	**0**	**3.8b**		**47-60**	
								¶97viii1238
TAP	**VIII 09 13 31 39.5**	**21.71N**	**121.29E**	**12**	**3.0L**		**180-0**	
								¶97viii1256
ISC	**VIII 09 15 55 11±9.0**	**24.7N±.63**	**122.4E±.70**	**4**		**4**	**1-2**	
TAP	VIII 09 15 55 08.4	24.77N	122.34E	7	3.0L			¶97viii1276
JMA	VIII 09 15 55 12.0±.5	24.76N±.03	122.53E±.04	4	2.8			
ISC	Poorly determined							
TAP	**VIII 09 20 18 43.0**	**24.76N**	**122.28E**	**1**	**3.1L**		**180-0**	
								¶97viii1305
ISC	**VIII 10 22 39 20±3.6**	**24.7N±.24**	**122.7E±.33**	**84**		**7**	**0-4**	
TAP	VIII 10 22 39 19.4	24.49N	122.64E	83	3.8L			¶97viii1471
JMA	VIII 10 22 39 20.6±.4	24.68N±.04	122.75E±.02	84±4				
TAP	**VIII 11 12 43 25.1**	**24.76N**	**122.44E**	**38**	**3.3L**		**180-0**	
								¶97viii1563
ISC	**VIII 12 00 41 18±6.2**	**24.2N±.36**	**122.6E±.51**	**65**		**6**	**0-4**	
TAP	VIII 12 00 41 16.4	23.98N	122.49E	14	3.9L			¶97viii1654
JMA	VIII 12 00 41 17.5±.4	24.19N±.04	122.58E±.03	65±3				
TAP	**VIII 12 03 03 47.9**	**24.77N**	**122.34E**	**4**	**3.0L**		**180-0**	
								¶97viii1670
ISC	**VIII 13 11 58 16±1.7**	**21.52N±.088**	**121.6E±.16**	**45±16**	**3.8b**		**14 1-85**	
NEIC	VIII 13 11 58 14.5	21.55N	121.56E	33	4.3b			¶97viii1904
TAP	VIII 13 11 58 14.8	21.60N	121.34E	32	4.0L			
EIDC	VIII 13 11 58 21.1	21.5N	121.5E	78	3.3b,3.7L			
NEIC	Less reliable solution.							
JMA	**VIII 13 19 28 49.7±.5**	**25.46N±.06**	**122.68E±.04**	**138**				¶97viii1949
TAP	VIII 13 19 28 47.5	25.29N	122.60E	174	3.5L			
TAP	**VIII 13 22 06 43.3**	**21.16N**	**121.46E**	**116**	**3.3L**		**1-1**	
								¶97viii1966
TAP	**VIII 15 09 01 09.7**	**21.75N**	**121.53E**	**85**	**3.2L**		**180-0**	
								¶97viii2189
TAP	**VIII 15 21 19 10.4**	**21.77N**	**119.96E**	**74**	**3.4L**		**180-0**	
								¶97viii2276
TAP	**VIII 16 03 37 20.4**	**24.97N**	**122.36E**	**8**	**3.1L**		**180-0**	
								¶97viii2310
TAP	**VIII 16 07 38 24.6**	**24.03N**	**122.32E**	**13**	**3.2L**		**180-0**	
								¶97viii2331
TAP	**VIII 16 11 27 53.6**	**24.83N**	**122.45E**	**16**	**3.1L**		**180-0**	
								¶97viii2358
TAP	**VIII 16 12 27 34.1**	**24.82N**	**122.45E**	**13**	**3.1L**		**180-0**	
								¶97viii2370
TAP	**VIII 17 06 03 09.3**	**21.63N**	**121.73E**	**148**	**3.5L**		**180-0**	
								¶97viii2494
TAP	**VIII 17 06 33 08.2**	**24.95N**	**122.13E**	**116**	**3.7L**		**180-0**	
								¶97viii2501
TAP	**VIII 17 14 06 27.7**	**22.64N**	**121.85E**	**20**	**3.1L**		**180-0**	
								¶97viii2548
TAP	**VIII 17 14 53 49.9**	**23.72N**	**122.00E**	**9**	**3.9L**		**180-0**	
								¶97viii2551
ISC	**VIII 17 23 16 01±1.6**	**22.69N±.082**	**121.8E±.13**	**17**	**3.5b**		**18 1-80**	
TAP	VIII 17 23 16 00.5	22.72N	121.74E	17	4.2L			¶97viii2598
TAP	Felt I=II J Chengkung							
EIDC	**VIII 18 00 19 11.7**	**22.5N**	**121.5E**	**0**	**3.5b,4.1L**		**16-47**	
								¶97viii2603
JMA	**VIII 18 10 58 48.1±.1**	**24.96N±.02**	**122.84E±.02**	**107**				¶97viii2663
TAP	VIII 18 10 58 46.6	24.61N	122.73E	97	3.7L			
TAP	**VIII 18 11 54 37.9**	**24.54N**	**122.81E**	**91**	**3.2L**		**180-0**	
								¶97viii2674
TAP	**VIII 18 12 34 52.1**	**24.69N**	**122.36E**	**87**	**3.1L**		**180-0**	
								¶97viii2681
TAP	**VIII 18 22 39 25.9**	**24.21N**	**122.76E**	**103**	**3.1L**		**200-0**	
								¶97viii2722
TAP	**VIII 19 00 19 01.2**	**23.81N**	**122.44E**	**2**	**3.2L**		**180-0**	
								¶97viii2733
TAP	**VIII 19 10 31 55.9**	**21.30N**	**121.84E**	**160**	**3.5L**		**180-0**	
								¶97viii2794
ISC	**VIII 19 20 51 04±1.0**	**21.71N±.051**	**121.40E±.073**	**27±6.9**	**4.0b**		**41 0-158**	
TAP	VIII 19 20 51 05.9	21.97N	121.37E	17	4.3L			¶97viii2870
BJI	VIII 19 20 51 11.1	21.53N	120.91E	100				
NEIC	VIII 19 20 51 11.7	21.74N	121.49E	100	4.3b			
EIDC	VIII 19 20 51 13.8	21.7N	121.4E	100	3.6b			
TAP	Felt I=II J Lanyu							
NEIC	Less reliable solution.							
JMA	**VIII 20 01 22 47.6±.3**	**24.05N±.03**	**122.33E±.03**	**26±5**	**2.9**			¶97viii2891
TAP	VIII 20 01 22 46.9	24.06N	122.43E	14	3.0L			
ISC	**VIII 20 07 05 24±3.8**	**24.7N±.42**	**122.7E±.33**	**100**			**6 0-2**	
TAP	VIII 20 07 05 23.9	24.64N	122.69E	103	3.8L			¶97viii2925
JMA	VIII 20 07 05 24.4±.3	24.73N±.04	122.71E±.02	100±3				
ISC	**VIII 20 10 57 54±2.0**	**23.96N±.097**	**122.5E±.14**	**28±15**	**3.5b**		**11 1-79**	
TAP	VIII 20 10 57 54.1	23.91N	122.63E	8	4.2L			¶97viii2947
JMA	VIII 20 10 57 55.8±.5	24.12N±.04	122.65E±.03	47	3.8			
EIDC	VIII 20 10 58 04.5	23.8N	125.2E	48	3.2b,4.3L			
ISC	**VIII 20 14 51 28.8±.59**	**24.40N±.067**	**122.91E±.069**	**67±7.1**	**3.8b**		**23 0-72**	
TAP	VIII 20 14 51 29.5	24.32N	122.85E	42	4.7L			¶97viii2978
JMA	VIII 20 14 51 29.8±.4	24.45N±.03	122.89E±.03	59±3	4.1			
BJI	VIII 20 14 51 33.8	24.39N	122.45E	123				
NEIC	VIII 20 14 51 37.9	24.37N	122.87E	150	4.1b			
EIDC	VIII 20 14 51 40.2	24.4N	122.8E	157	3.4b			
NEIC	Less reliable solution.							
TAP	**VIII 20 17 52 51.2**	**24.94N**	**122.05E**	**122**	**3.1L**		**180-0**	
								¶97viii2996
ISC	**VIII 21 06 39 47±7.3**	**22.0N±.42**	**121.4E±.38**	**10**		**7**	**1-2**	
TAP	VIII 21 06 39 47.2	22.00N	121.31E	10	3.6L			¶97viii3065
TAP	Felt I=II J Lanyu							
TAP	**VIII 22 17 25 02.0**	**21.69N**	**120.19E**	**35**	**3.6L**		**180-0**	
								¶97viii3257
ISC	**VIII 23 03 05 20.8±.54**	**24.39N±.057**	**122.02E±.048**	**25**		**15**	**0-2**	
JMA	VIII 23 03 05 19.9±.8	24.94N±.07	122.13E±.06	25	3.0			¶97viii3330
TAP	VIII 23 03 05 20.1	24.38N	121.96E	7	3.0L			
TAP	Felt I=III J							
TAP	**VIII 23 06 33 14.3**	**21.34N**	**120.07E**	**21**	**3.9L**		**2-4**	
								¶97viii3354
TAP	**VIII 23 08 04 29.5**	**21.64N**	**120.13E**	**40**	**3.8L**		**2-8**	
								¶97viii3363
TAP	**VIII 23 08 18 30.1**	**21.65N**	**120.18E**	**48**	**3.3L**		**180-0**	
								¶97viii3365
TAP	**VIII 23 08 31 18.0**	**21.76N**	**120.30E**	**63**	**3.4L**		**180-0**	
								¶97viii3368
TAP	**VIII 23 08 46 58.8**	**21.69N**	**120.11E**	**23**	**3.8L**		**2-20**	
								¶97viii3373
TAP	**VIII 23 10 19 07.5**	**21.69N**	**120.07E**	**26**	**3.3L**		**180-0**	
								¶97viii3387
TAP	**VIII 23 11 37 52.6**	**21.62N**	**120.14E**	**43**	**3.2L**		**180-0**	
								¶97viii3397
TAP	**VIII 23 11 52 26.0**	**21.71N**	**120.20E**	**35**	**3.5L**		**2-2**	
								¶97viii3398
TAP	**VIII 23 12 00 12.4**	**21.65N**	**120.05E**	**61**	**3.0L**		**180-0**	
								¶97viii3399
TAP	**VIII 23 12 48 10.9**	**21.61N**	**120.13E**	**19**	**3.2L**		**180-0**	
								¶97viii3403
TAP	**VIII 23 14 20 03.2**	**24.80N**	**122.01E**	**4**	**3.2L**		**180-0**	
								¶97viii3413
TAP	**VIII 23 15 26 14.3**	**21.69N**	**120.24E**	**35**	**3.3L**		**180-0**	
								¶97viii3420
TAP	**VIII 23 21 56 02.0**	**21.73N**	**120.31E**	**47**	**3.5L**		**180-0**	
								¶97viii3456
TAP	**VIII 24 00 53 29.1**	**21.72N**	**120.18E**	**32**	**3.5L**		**180-0**	
								¶97viii3469
ISC	**VIII 24 07 48 37.0±.98**	**24.40N±.044**	**122.08E±.045**	**11±9.0**			**22 0-2**	
TAP	VIII 24 07 48 38.2	24.44N	121.96E	9	3.9L			¶97viii3496
JMA	VIII 24 07 48 38.3±.6	24.72N±.08	122.13E±.04	47	3.4			
TAP	Felt I=IV J, II Suao							
ISC	**VIII 24 12 17 38±1.2**	**21.59N±.023**	**120.34E±.028**	**8±7.2**	**5.1b,4.9s**		**236 1-170**	
HRVD	VIII 24 12 17 39.2±.1	21.22N±.02	120.59E±.04	39±1.3				¶97viii3526
TAP	VIII 24 12 17 40.0	21.64N	120.20E	42	5.3L			
BJI	VIII 24 12 17 40.4	21.84N	120.15E	13	4.9L,4.8b			
NEIC	VIII 24 12 17 41.8	21.59N	120.40E	33	5.3b,4.6s			
EIDC	VIII 24 12 17 42.6	21.6N	120.4E	27	4.5b,4.7s			
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c12; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.30±.10; $M_{\theta\theta}$0.07±.15; $M_{\phi\phi}$0.23±.21; $M_{r\theta}$1.11±.29; $M_{r\phi}$0.94±.64; $M_{\theta\phi}$−0.27±.11. Principal Axes: T 1.24,Plg43°,Azm317°; N 0.43, Plg2°,Azm49°; P −1.67,Plg47°,Azm141°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S5°, δ2°,λ−134°. NP2:ϕ_S229°,δ88°,λ−88°.							
TAP	Felt I=II J Kaohsiung							
BJI	Ms5.2							
NEIC	Mw5.4(HRV).							
TAP	**VIII 24 12 26 59.0**	**21.74N**	**120.33E**	**44**	**3.8L**		**20-72**	
EIDC	VIII 24 12 27 05.6	22.0N	121.5E	34	3.1b			¶97viii3530
TAP	**VIII 24 12 39 41.0**	**21.78N**	**120.25E**	**25**	**3.3L**		**180-0**	
								¶97viii3532
TAP	**VIII 24 12 42 49.0**	**21.71N**	**120.21E**	**43**	**3.3L**		**180-0**	
								¶97viii3533
TAP	**VIII 24 12 43 12.5**	**21.71N**	**120.20E**	**40**	**3.5L**		**180-0**	
								¶97viii3534
TAP	**VIII 24 12 49 27.3**	**21.73N**	**120.30E**	**41**	**3.2L**		**180-0**	
								¶97viii3535
TAP	**VIII 24 13 11 44.9**	**21.75N**	**120.54E**	**65**	**3.0L**		**180-0**	
								¶97viii3538
TAP	**VIII 24 13 23 05.0**	**21.73N**	**120.29E**	**33**	**3.1L**		**180-0**	
								¶97viii3540
TAP	**VIII 24 14 49 09.2**	**21.79N**	**120.39E**	**71**	**3.0L**		**180-0**	
								¶97viii3550
TAP	**VIII 24 15 22 30.3**	**21.77N**	**120.17E**	**30**	**3.1L**		**180-0**	
								¶97viii3558
ISC	**VIII 24 15 47 59±2.2**	**21.58N±.047**	**120.50E±.073**	**31±17**	**4.2b,4.5s**		**50 4-86**	
EIDC	VIII 24 15 47 56.5	21.6N	120.5E	0	4.0b,4.4s			¶97viii3560
BJI	VIII 24 15 47 57.8	21.07N	120.50E	54	4.4b,4.8s			
NEIC	VIII 24 15 47 59.5	21.60N	120.46E	33	4.6b,4.5s			
TAP	VIII 24 15 48 00.2	21.67N	120.27E	56	4.8L			
TAP	**VIII 24 17 44 57.3**	**21.67N**	**120.19E**	**27**	**3.3L**		**180-0**	
								¶97viii3571
ISC	**VIII 24 18 58 34±1.3**	**21.60N±.023**	**120.32E±.038**	**3±8.0**	**5.1b,5.0s**		**248 1-170**	
HRVD	VIII 24 18 58 34.5±1.7	21.75N±.11	120.76E±.19	32±6.9				¶97viii3578
TAP	VIII 24 18 58 36.5	21.63N	120.27E	46	5.3L			
BJI	VIII 24 18 58 36.9	21.72N	120.24E	27	4.9L,5.0b			
NEIC	VIII 24 18 58 38.0	21.63N	120.40E	33	5.3b,5.0s			

EIDC VIII 24 18 58 39.3 21.7N 120.4E 28 4.4b,3.9L
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c20; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.76±.71; $M_{\theta\theta}$−1.42±.65; $M_{\phi\phi}$7.17±1.06; $M_{r\theta}$5.01±1.34; $M_{r\phi}$−6.41±1.84; $M_{\theta\phi}$−0.58±.73. Principal Axes: T 10.4,Plg25°,Azm76°; N 0.2, Plg19°,Azm337°; P −10.6,Plg58°,Azm213°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S201°,δ26°,λ−43°. NP2:ϕ_S330°,δ72°,λ−110°.
TAP Felt I=II J Kaohsiung, I Shoushan
BJI Ms5.4
NEIC Mw5.3(HRV).

TAP VIII 24 19 04 23.2 21.90N 120.23E 15 3.2L 180-0 ¶97viii3579
TAP VIII 24 20 48 14.8 21.63N 120.34E 67 3.2L 180-0 ¶97viii3588
TAP VIII 24 21 48 04.6 24.67N 122.41E 68 3.1L 180-0 ¶97viii3596
TAP VIII 25 01 04 55.5 21.62N 120.29E 61 3.2L 180-0 ¶97viii3614
TAP VIII 25 02 58 09.8 21.75N 120.13E 17 3.6L 2-86
EIDC VIII 25 02 58 16.2 21.8N 124.7E 0 4.0b ¶97viii3630
ISC VIII 25 06 37 49±3.0 **21.55N**±.046 **120.31E**±.074 **8**±19 **4.3b**,4.2s **53 2-94**
BJI VIII 25 06 37 52.1 21.83N 120.20E 18 3.8L,4.3b ¶97viii3659
NEIC VIII 25 06 37 52.1 21.57N 120.32E 33 4.8b
TAP VIII 25 06 37 52.6 21.69N 120.29E 44 4.7L
EIDC VIII 25 06 37 53.5 21.6N 120.3E 29 4.1b,4.3L
MOS VIII 25 06 37 54.9 22.0N 120.2E 33 5.0b
BJI Ms4.2
ISC VIII 25 06 57 45.1±.18 **21.56N**±.027 **120.41E**±.047 **36 4.9b,4.5s 156 2-170**
TAP VIII 25 06 57 43.9 21.67N 120.18E 36 4.9L ¶97viii3662
BJI VIII 25 06 57 44.0 21.55N 120.25E 30 4.4L,4.6b
NEIC VIII 25 06 57 44.7 21.55N 120.41E 33 5.2b,4.6s
MOS VIII 25 06 57 45.0 21.6N 120.4E 33 5.4b,4.6s
EIDC VIII 25 06 57 45.5 21.6N 120.4E 28 4.5b,4.1s
BJI Ms4.8
TAP VIII 25 07 09 16.7 21.70N 120.16E 24 3.0L 180-0 ¶97viii3665
JMA VIII 25 16 51 29.8±.2 **24.28N**±.05 **122.16E**±.02 **49 3.0** ¶97viii3715
TAP VIII 25 16 52 29.7 25.26N 122.12E 195 3.2L
TAP VIII 25 19 43 40.7 21.72N 120.20E 32 3.2L 180-0 ¶97viii3732
TAP VIII 25 23 50 42.1 21.70N 120.30E 38 3.2L 180-0 ¶97viii3755
TAP VIII 26 09 29 44.6 22.88N 121.09E 3 3.4L 180-0 ¶97viii3826
TAP VIII 27 19 49 07.1 24.00N 122.34E 10 3.2L 180-0 ¶97viii4029
ISC VIII 28 15 08 30.5±.56 **21.84N**±.074 **121.9E**±.15 **11 3.9b 13 16-74**
EIDC VIII 28 15 08 31.1 21.8N 121.8E 0 3.7b,3.7L ¶97viii4148
TAP VIII 28 15 08 31.9 22.04N 121.46E 11 4.1L
NEIC VIII 28 15 08 33.5 21.86N 121.88E 33 4.3b
NEIC Less reliable solution.
TAP VIII 28 15 17 24.5 21.86N 121.55E 7 3.8L 180-0 ¶97viii4149
TAP VIII 28 15 54 59.7 21.65N 121.24E 8 3.3L 180-0 ¶97viii4152
TAP VIII 28 16 11 38.5 21.68N 121.32E 15 3.5L 180-0 ¶97viii4158
TAP VIII 28 16 52 51.8 21.84N 121.51E 20 3.4L 180-0 ¶97viii4166
TAP VIII 28 17 12 59.2 21.97N 121.55E 10 3.5L 180-0 ¶97viii4167
TAP VIII 29 17 18 23.5 24.88N 122.07E 98 4.1L 13-50
EIDC VIII 29 17 18 19.2 24.1N 122.6E 0 3.4b ¶97viii4352
TAP VIII 30 07 39 36.9 21.83N 121.77E 6 3.8L 180-0 ¶97viii4454
TAP VIII 30 13 07 43.5 22.58N 121.28E 138 3.1L 180-0 ¶97viii4485
TAP VIII 31 05 58 56.7 22.13N 121.48E 5 3.1L 2-2 ¶97viii4593
TAP VIII 31 06 03 19.4 21.94N 121.49E 9 3.2L 180-0 ¶97viii4594
TAP VIII 31 07 36 34.3 21.74N 120.89E 61 3.2L 180-0 ¶97viii4608
TAP IX 01 17 06 13.4 22.04N 122.86E 14 3.6L 2-2 ¶97ix0142
ISC IX 01 19 22 51±3.2 **24.6N**±.51 **122.8E**±.30 **106 5 0-2**
JMA IX 01 19 22 50.2±.4 24.73N±.05 122.82E±.02 106±4 ¶97ix0153
TAP IX 02 06 09 54.6 21.76N 121.28E 27 3.4L 180-0 ¶97ix0229
JMA IX 02 09 34 55.4±.4 **23.97N**±.04 **122.16E**±.03 **81** ¶97ix0253
ISC IX 02 17 42 17±7.3 **25.6N**±.55 **122.6E**±.74 **207 8 1-5**
TAP IX 02 17 42 14.2 25.32N 122.77E 240 4.1L ¶97ix0306
JMA IX 02 17 42 17.1±.3 25.56N±.02 122.62E±.03 207
ISC IX 02 19 15 43±1.3 **21.54N**±.090 **120.4E**±.11 **36**±13 **4.1b 26 2-86**
BJI IX 02 19 15 29.2 20.96N 121.05E 15 3.7L,4.1b ¶97ix0316
NEIC IX 02 19 15 42.0 21.54N 120.37E 33 4.6b
EIDC IX 02 19 15 42.9 21.6N 120.5E 26 3.9b
TAP IX 02 19 15 42.9 21.64N 120.21E 44 4.3L
BJI Ms4.1
NEIC Less reliable solution.
TAP IX 03 00 37 36.2 21.27N 121.73E 167 3.4L 1-1 ¶97ix0355
TAP IX 03 07 43 35.9 21.71N 120.26E 30 3.1L 180-0 ¶97ix0395
TAP IX 04 06 34 22.2 21.93N 121.37E 6 3.3L 2-2 ¶97ix0555
TAP IX 04 06 54 03.7 22.61N 121.04E 19 3.0L 180-0 ¶97ix0559
JMA IX 04 07 17 57.5±.5 **24.27N**±.03 **122.80E**±.03 **29 3.0** ¶97ix0560
TAP IX 04 12 18 19.5 24.82N 122.64E 4 3.6L 180-0 ¶97ix0584
JMA IX 04 12 23 55.0±.3 **24.94N**±.03 **122.52E**±.03 **21**±4 **2.9** ¶97ix0586
TAP IX 04 12 23 58.2 24.81N 122.54E 5 3.3L
JMA IX 04 12 28 17.6±.1 **24.95N**±.01 **122.63E**±.01 **38**±1 **3.2** ¶97ix0587
TAP IX 04 12 28 20.3 24.82N 122.61E 13 3.7L
JMA IX 05 04 59 00.7±.3 **25.66N**±.04 **122.42E**±.03 **200** ¶97ix0697
ISC IX 05 12 41 07.8±.87 **22.77N**±.054 **121.13E**±.099 **10**±8.2 **14 0-2**
TAP IX 05 12 41 07.0 22.72N 121.14E 16 3.7L ¶97ix0747
TAP Felt I=II J Taitung
JMA IX 05 19 43 12.2±.3 **24.70N**±.05 **122.58E**±.03 **98** ¶97ix0790
TAP IX 05 19 43 11.2 24.62N 122.64E 89 3.8L
JMA IX 05 23 32 41.9±.2 **24.63N**±.04 **122.27E**±.01 **68**±1 ¶97ix0814
TAP IX 05 23 32 41.4 24.33N 122.17E 47 3.5L
JMA IX 06 15 52 31.2±.3 **25.06N**±.02 **122.36E**±.02 **17 3.4** ¶97ix0941
TAP IX 06 15 52 30.9 24.20N 122.11E 19 4.1L
EIDC IX 06 15 52 44.4 23.1N 126.0E 0 4.1L,3.3b
TAP IX 07 04 09 15.8 24.26N 122.20E 49 3.4L 180-0 ¶97ix1008
TAP IX 07 10 48 00.5 22.75N 121.73E 20 3.1L 180-0 ¶97ix1051
TAP IX 07 16 52 28.3 21.60N 120.34E 57 3.7L 180-0 ¶97ix1104
TAP IX 08 05 01 12.2 21.90N 120.42E 30 3.4L 180-0 ¶97ix1176
JMA IX 08 14 22 55.5±.4 **23.23N**±.02 **122.10E**±.03 **14 2.8** ¶97ix1233
TAP IX 08 14 22 54.0 23.30N 121.78E 11 3.2L
TAP IX 08 17 02 05.3 21.21N 121.97E 179 4.2L 180-0 ¶97ix1248
TAP IX 09 12 52 32.7 21.81N 122.17E 0 3.0L 180-0 ¶97ix1378
JMA IX 09 20 16 40.1±.3 **24.46N**±.05 **122.19E**±.03 **70** ¶97ix1435
TAP IX 09 20 16 39.8 24.18N 122.09E 50 3.2L
TAP IX 10 07 07 00.6 21.61N 121.27E 9 3.4L 1-1 ¶97ix1488
TAP IX 10 19 25 23.5 21.69N 121.40E 9 3.2L 180-0 ¶97ix1567
JMA IX 10 21 57 23.6±.5 **24.11N**±.05 **122.07E**±.03 **42 2.9** ¶97ix1584
TAP IX 10 21 57 24.9 24.09N 122.23E 14 3.1L
ISC IX 11 02 25 21±9.4 **25.0N**±.75 **122.9E**±.51 **66 5 1-2**
JMA IX 11 02 25 23.9±.5 24.64N±.08 123.01E±.03 66 ¶97ix1615
ISC Poorly determined
JMA IX 11 11 26 45.5±.3 **24.95N**±.05 **122.03E**±.03 **108**±4 ¶97ix1670
TAP IX 11 11 26 43.7 24.94N 121.94E 120 3.8L
ISC IX 12 16 58 28±3.7 **24.8N**±.48 **123.0E**±.25 **99 5 0-2**
JMA IX 12 16 58 28.0±.3 24.84N±.04 122.97E±.02 99±3 ¶97ix1848
ISC IX 12 20 15 21±2.2 **24.34N**±.060 **122.0E**±.21 **14 12 0-1**
TAP IX 12 20 15 22.5 24.42N 121.84E 14 3.2L ¶97ix1870
TAP Felt I=III J
TAP IX 13 01 35 47.7 24.80N 122.48E 4 3.2L 180-0 ¶97ix1892
ISC IX 13 18 28 28±11 **23.7N**±.83 **123.0E**±.49 **59 5 1-2**
TAP IX 13 18 28 27.5 23.68N 122.84E 18 3.2L ¶97ix2010
JMA IX 13 18 28 28.3±.2 23.75N±.02 122.99E±.01 59±2 3.0
TAP IX 14 12 07 02.2 24.76N 122.58E 1 3.0L 180-0 ¶97ix2120
ISC IX 15 06 45 20±12 **24.0N**±.54 **122.8E**±.76 **18 5 0-2**
JMA IX 15 06 45 20.3±.3 24.03N±.02 122.77E±.02 18±3 3.1 ¶97ix2206
TAP IX 15 06 45 20.5 23.97N 122.84E 46 3.4L
JMA IX 15 06 46 03.4±.5 **25.60N**±.06 **122.36E**±.06 **181** ¶97ix2207
TAP IX 15 06 46 00.0 25.54N 122.19E 244 4.2L
TAP IX 15 08 17 20.4 22.86N 119.98E 19 3.2L 180-0 ¶97ix2215
TAP IX 15 14 15 51.9 22.21N 121.51E 11 3.1L 180-0 ¶97ix2251
TAP IX 17 05 01 15.8 22.93N 121.83E 20 3.1L 180-0 ¶97ix2467
TAP IX 17 14 09 51.3 22.67N 121.38E 26 3.2L 180-0 ¶97ix2519
JMA IX 18 03 29 45.0±.4 **24.70N**±.06 **122.23E**±.03 **7 2.9** ¶97ix2607
TAP IX 18 03 29 45.7 24.76N 122.20E 8 3.2L
ISC IX 18 05 34 37±4.0 **24.7N**±.49 **122.8E**±.33 **99 5 0-2**
TAP IX 18 05 34 35.6 24.53N 122.84E 77 3.7L ¶97ix2619
JMA IX 18 05 34 36.7±.2 24.76N±.03 122.76E±.01 99±2
JMA IX 20 02 04 19.7±.6 **23.93N**±.05 **122.85E**±.03 **58 3.0** ¶97ix2881
TAP IX 20 02 04 19.0 23.79N 122.62E 10 3.7L
ISC IX 20 02 05 12.0±.93 **23.9N**±.11 **122.80E**±.095 **57 7 1-4**
JMA IX 20 02 05 12.6±.5 23.93N±.04 122.83E±.03 57 3.9 ¶97ix2882
BJI IX 20 02 05 13.1 24.27N 122.60E 7 3.4L
ISC IX 20 02 24 21±14 **23.7N**±.88 **122.6E**±.81 **60 4 1-2**
JMA IX 20 02 24 24.6±.5 23.92N±.04 122.85E±.03 60 3.0 ¶97ix2883
TAP IX 20 02 24 25.0 23.77N 122.72E 33 3.3L
ISC Poorly determined
JMA IX 20 02 46 43.4±.3 **24.77N**±.06 **122.95E**±.02 **90**±4 ¶97ix2886
JMA IX 21 17 47 07.9±.4 **24.03N**±.04 **122.17E**±.03 **52 3.4** ¶97ix3139
TAP IX 21 17 47 07.3 23.93N 122.19E 6 3.7L
ISC IX 21 21 01 06±5.1 **24.4N**±.52 **122.6E**±.46 **69 5 0-2**
TAP IX 21 21 01 06.1 24.30N 122.56E 30 3.3L ¶97ix3163
JMA IX 21 21 01 06.2±.3 24.50N±.05 122.62E±.03 69
TAP IX 21 23 10 35.8 21.61N 120.21E 45 3.0L 180-0 ¶97ix3181
ISC IX 22 05 38 43±7.3 **25.2N**±.83 **122.3E**±.57 **195 6 1-3**
TAP IX 22 05 38 39.5 25.35N 122.12E 222 3.8L ¶97ix3224
JMA IX 22 05 38 42.4±.4 25.31N±.06 122.27E±.04 195
JMA IX 22 10 40 46.1±.5 **23.77N**±.03 **122.60E**±.03 **39 2.9** ¶97ix3266
TAP IX 22 10 40 45.7 23.74N 122.32E 9 3.1L
JMA IX 23 06 28 19.1±.6 **24.03N**±.03 **122.46E**±.04 **34 3.6** ¶97ix3385
TAP IX 23 06 28 19.9 23.96N 122.24E 10 3.7L
JMA IX 23 16 02 17.0±.3 **24.14N**±.02 **122.43E**±.02 **25 3.1** ¶97ix3448
TAP IX 23 16 02 17.0 24.06N 122.44E 13 3.4L
JMA IX 24 09 23 44.4±.4 **23.93N**±.05 **122.18E**±.03 **75** ¶97ix3559
TAP IX 24 09 23 43.2 23.84N 122.02E 23 3.4L
JMA IX 24 17 14 46.3±.3 **24.80N**±.04 **122.35E**±.02 **50 3.0** ¶97ix3608
TAP IX 24 17 14 45.9 23.99N 122.50E 30 3.2L
TAP IX 24 19 00 46.5 21.29N 120.36E 70 3.5L 180-0 ¶97ix3620
JMA IX 25 03 05 31.3±.1 **25.06N**±.03 **122.02E**±.02 **60**±3 **3.0** ¶97ix3669
TAP IX 25 03 05 31.3 24.56N 121.73E 63 3.4L
JMA IX 25 22 19 50.6±.5 **24.67N**±.07 **122.23E**±.04 **62** ¶97ix3798
ISC IX 25 22 46 12±9.6 **24.6N**±.80 **122.2E**±.68 **63**±44 **6 1-8**
TAP IX 25 22 46 09.2 24.66N 122.03E 66 3.3L ¶97ix3800
JMA IX 25 22 46 10.1±.4 24.81N±.05 122.11E±.03 66
JMA IX 26 03 39 11.8±.6 **24.93N**±.06 **122.17E**±.05 **50 3.1** ¶97ix3860
TAP IX 26 03 39 10.5 24.68N 122.00E 56 3.7L
TAP IX 26 08 52 28.2 22.54N 121.29E 17 3.3L 180-0 ¶97ix3927
TAP IX 26 14 17 55.2 21.42N 121.99E 98 3.5L 180-0 ¶97ix4038
ISC IX 28 13 29 45.8±.88 **25.26N**±.077 **122.4E**±.12 **206**±7.9 **3.5b 25 1-78**
NEIC IX 28 13 29 45.3 25.21N 122.30E 200 3.6b ¶97ix4657
TAP IX 28 13 29 45.8 25.21N 122.39E 206 4.6L
JMA IX 28 13 29 48.5±.5 25.51N±.03 122.50E±.05 161
EIDC IX 28 13 29 49.2 25.2N 122.1E 221 3.5b
NEIC Less reliable solution.

Agency	mo	d	Origin Time h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
BJI	**IX**	**28**	**23**	**42**	**06.6**	**21.08N**	**121.81E**	**25**	**4.6L**		**¶97ix4794**
TAP	**IX**	**29**	**17**	**40**	**24.5**	**23.82N**	**122.91E**	**108**	**3.6L**		**180-0**
											¶97ix4995
JMA	**IX**	**30**	**04**	**42**	**50.8±.6**	**24.22N±.06**	**122.27E±.05**	**63**			**¶97ix5128**
TAP	IX	30	04	42	48.6	24.03N	122.20E	11	3.2L		
ISC	**IX**	**30**	**19**	**06**	**30.2±.42**	**22.55N±.038**	**121.44E±.044**	**37±5.2**	**4.0b**	**49**	**0-84**
BJI	IX	30	19	06	27.8	22.19N	121.46E	74	4.4b		**¶97ix5296**
TAP	IX	30	19	06	28.7	22.60N	121.45E	9	4.4L		
JMA	IX	30	19	06	32.6±.3	22.60N±.03	121.66E±.03	65	3.7		
NEIC	IX	30	19	06	33.4	22.48N	121.63E	74			
EIDC	IX	30	19	06	34.2	22.4N	121.7E	70	3.6b,4.5L		
TAP	Felt I=II J										
NEIC	Less reliable solution.										
JMA	**X**	**01**	**10**	**01**	**56.6±.4**	**23.89N±.04**	**122.08E±.03**	**81**	**2.7**		**¶97x0069**
TAP	X	01	10	01	55.8	23.83N	121.90E	31	3.2L		
JMA	**X**	**01**	**15**	**43**	**22.6±.6**	**21.63N±.05**	**122.08E±.06**	**80**	**3.2**		**¶97x0114**
TAP	X	01	15	43	19.6	21.65N	121.93E	12	3.3L		
TAP	**X**	**02**	**05**	**55**	**46.9**	**22.87N**	**121.13E**	**18**	**3.4L**		**180-0**
											¶97x0218
TAP	**X**	**02**	**08**	**45**	**24.2**	**21.80N**	**121.04E**	**7**	**3.2L**		**180-0**
											¶97x0242
JMA	**X**	**03**	**21**	**12**	**20.4±.6**	**24.16N±.04**	**122.76E±.04**	**29±5**	**3.4**		**¶97x0525**
TAP	X	03	21	12	19.2	24.16N	122.95E	5	3.3L		
ISC	**X**	**03**	**23**	**24**	**00±1.2**	**24.21N±.098**	**122.88E±.067**	**30±9.4**	**3.8b,3.5s**	**19**	**0-84**
EIDC	X	03	23	23	57.2	24.3N	123.0E	0	3.8b,3.6L		**¶97x0545**
JMA	X	03	23	23	59.2±.4	24.22N±.03	122.78E±.02	34±3	4.1		
NEIC	X	03	23	24	00.2	24.32N	123.11E	33	3.8b		
BJI	X	03	23	24	00.6	24.39N	122.66E	9	3.5L,4.0b		
NEIC	Less reliable solution.										
BJI	Ms3.8										
JMA	**X**	**03**	**23**	**27**	**36.2±.3**	**24.23N±.02**	**122.84E±.02**	**28±3**	**2.9**		**¶97x0546**
JMA	**X**	**03**	**23**	**35**	**55.7±.4**	**24.20N±.03**	**122.76E±.02**	**32±3**	**3.2**		**¶97x0548**
JMA	**X**	**04**	**04**	**17**	**43.8±.5**	**24.19N±.04**	**122.79E±.03**	**29±4**	**2.8**		**¶97x0579**
JMA	**X**	**05**	**01**	**24**	**26.0±.5**	**24.07N±.03**	**122.53E±.03**	**42**	**3.2**		**¶97x0778**
TAP	X	05	01	24	24.5	23.88N	122.53E	13	3.5L		
ISC	**X**	**05**	**14**	**40**	**57±2.2**	**23.8N±.12**	**122.48E±.096**	**24±22**	**3.8b**	**13**	**1-58**
TAP	X	05	14	40	55.0	23.73N	122.56E	5	4.2L		**¶97x0874**
JMA	X	05	14	40	58.6±.7	23.88N±.04	122.50E±.04	42	3.8		
BJI	X	05	14	40	58.7	23.89N	122.41E	28	3.3L		
EIDC	X	05	14	40	59.5	23.4N	123.4E	0	3.7b,4.0L		
NEIC	X	05	14	41	01.9	23.49N	123.38E	33			
NEIC	Less reliable solution.										
TAP	**X**	**06**	**04**	**08**	**42.7**	**24.50N**	**122.49E**	**66**	**3.0L**		**180-0**
											¶97x0981
TAP	**X**	**06**	**17**	**06**	**48.7**	**21.58N**	**121.05E**	**12**	**3.5L**		**1-1**
											¶97x1085
TAP	**X**	**06**	**17**	**07**	**23.9**	**21.58N**	**121.06E**	**24**	**3.7L**		**180-0**
											¶97x1086
TAP	**X**	**06**	**17**	**30**	**03.9**	**22.41N**	**121.06E**	**2**	**3.2L**		**180-0**
											¶97x1088
JMA	**X**	**07**	**06**	**17**	**56.4±.8**	**24.06N±.06**	**122.43E±.05**	**55**	**3.5**		**¶97x1192**
TAP	X	07	06	17	55.9	23.93N	122.39E	4	3.8L		
TAP	**X**	**07**	**07**	**46**	**46.7**	**24.29N**	**122.09E**	**18**	**3.1L**		**180-0**
											¶97x1205
JMA	**X**	**07**	**07**	**54**	**35.4±.3**	**24.10N±.04**	**122.27E±.03**	**34±5**	**3.9**		**¶97x1207**
TAP	X	07	07	54	34.4	24.00N	122.34E	12	4.1L		
JMA	**X**	**07**	**22**	**32**	**16.0±.6**	**24.07N±.06**	**122.55E±.03**	**73**	**2.6**		**¶97x1314**
JMA	**X**	**08**	**06**	**37**	**20.9±.7**	**24.07N±.04**	**122.46E±.04**	**38**	**3.0**		**¶97x1358**
TAP	X	08	06	37	18.9	23.98N	122.46E	2	3.3L		
TAP	**X**	**08**	**07**	**04**	**10.5**	**23.94N**	**122.48E**	**7**	**3.1L**		**180-0**
											¶97x1363
TAP	**X**	**08**	**13**	**45**	**43.2**	**24.94N**	**122.30E**	**129**	**3.0L**		**180-0**
											¶97x1427
JMA	**X**	**08**	**19**	**13**	**19.1±.3**	**24.67N±.05**	**122.71E±.02**	**85±3**	**2.2**		**¶97x1458**
TAP	**X**	**08**	**20**	**04**	**06.0**	**22.09N**	**121.65E**	**9**	**3.0L**		**180-0**
											¶97x1465
ISC	**X**	**08**	**22**	**14**	**58±7.0**	**25.0N±.82**	**123.0E±.40**	**109**			**4 1-2**
JMA	X	08	22	14	57.6±.4	25.01N±.04	123.01E±.03	109			**¶97x1486**
ISC	Poorly determined										
TAP	**X**	**08**	**22**	**35**	**04.4**	**24.74N**	**122.46E**	**105**	**3.1L**		**180-0**
											¶97x1488
ISC	**X**	**09**	**00**	**58**	**16±2.6**	**24.6N±.44**	**122.9E±.25**	**69**			**4 0-2**
JMA	X	09	00	58	15.5±.4	24.57N±.04	122.91E±.02	69±3	3.3		**¶97x1503**
ISC	Poorly determined										
JMA	**X**	**09**	**04**	**54**	**33.3±.6**	**22.43N±.06**	**121.93E±.05**	**90**	**3.0**		**¶97x1526**
TAP	X	09	04	54	29.3	22.27N	121.92E	10	3.5L		
TAP	**X**	**10**	**23**	**59**	**59.0**	**21.68N**	**120.37E**	**66**	**3.0L**		**180-0**
											¶97x1816
ISC	**X**	**11**	**18**	**24**	**25.0±.19**	**25.02N±.019**	**122.52E±.023**	**154±1.9**	**5.2b**	**425**	**0-167**
MOS	X	11	18	24	23.6	25.1N	122.6E	142	5.8b		**¶97x1921**
NEIC	X	11	18	24	23.8	25.03N	122.45E	143	5.3b		
BJI	X	11	18	24	24.8	24.99N	122.59E	155	5.8b		
TAP	X	11	18	24	25.7	24.98N	122.58E	146	6.1L		
HRVD	X	11	18	24	26.2±.3	24.86N±.03	122.57E±.05	147±1.6			
EIDC	X	11	18	24	26.7	25.1N	122.5E	156	4.9b		
JMA	X	11	18	24	26.9±.4	25.03N±.04	122.58E±.03	134	5.5		
NEIC	Mw5.5(HRV). Felt I=V MM.										
TAP	Felt I=III J Ilan, Hwalien, II Neicheng, Chengkung, I Mucha, Taipei, Kuangyinshan, Tachien, Taichung, Pinlang										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c57; Mantle waves: s12,c14; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.21±.06; $M_{\theta\theta}$−0.30±.09; $M_{\phi\phi}$1.51±.10; $M_{r\theta}$−0.67±.06; $M_{r\phi}$−1.43±.07; $M_{\theta\phi}$−0.21±.09. Principal Axes: T 2.12,Plg24°,Azm92°; N −0.03,Plg19°,Azm191°; P −2.09,Plg59°,Azm315°. Best double couple: $M_0$2.1×10^{17}Nm, NP1:ϕ_S149°,δ27°,λ−135°. NP2:ϕ_S17°,δ71°,λ−70°.										
JMA	**X**	**12**	**13**	**23**	**05.4±.4**	**25.02N±.05**	**122.09E±.04**	**72**	**3.2**		**¶97x2049**
TAP	X	12	13	23	04.5	24.78N	121.96E	89	3.6L		
TAP	**X**	**13**	**17**	**16**	**20.6**	**25.12N**	**122.74E**	**2**	**3.1L**		**180-0**
											¶97x2256
TAP	**X**	**13**	**20**	**44**	**14.0**	**21.86N**	**121.28E**	**10**	**3.2L**		**180-0**
											¶97x2283
ISC	**X**	**14**	**04**	**42**	**14±2.5**	**24.35N±.063**	**122.1E±.25**	**19**			**11 1-1**
TAP	X	14	04	42	14.9	24.41N	121.94E	19	3.3L		**¶97x2340**
TAP	Felt I=II J										
JMA	**X**	**14**	**06**	**23**	**56.8±.2**	**24.71N±.03**	**122.79E±.01**	**60±2**	**2.5**		**¶97x2347**
TAP	**X**	**14**	**14**	**06**	**16.4**	**21.41N**	**121.36E**	**28**	**3.2L**		**180-0**
											¶97x2419
TAP	**X**	**15**	**07**	**09**	**43.4**	**24.97N**	**122.50E**	**11**	**3.2L**		**180-0**
											¶97x2583
TAP	**X**	**15**	**12**	**46**	**35.3**	**21.57N**	**121.01E**	**5**	**3.0L**		**180-0**
											¶97x2638
ISC	**X**	**16**	**04**	**35**	**01±6.7**	**25.6N±.47**	**122.4E±.65**	**214**			**6 1-4**
JMA	X	16	04	35	02.4±.5	25.52N±.06	122.54E±.04	214			**¶97x2786**
ISC	**X**	**17**	**13**	**14**	**17.1±.34**	**22.79N±.029**	**121.43E±.036**	**37±5.0**	**3.9b,4.1s**	**73**	**0-84**
EIDC	X	17	13	14	14.2	22.7N	121.6E	0	3.8b,4.5L		**¶97x2992**
BJI	X	17	13	14	15.9	22.96N	121.32E	16	4.1L,4.4b		
NEIC	X	17	13	14	16.3	22.76N	121.58E	33	3.9b		
TAP	X	17	13	14	16.8	22.82N	121.43E	26	4.7L		
JMA	X	17	13	14	18.3±.4	22.78N±.04	121.54E±.03	81	4.3		
BJI	Ms3.8										
NEIC	Less reliable solution.										
TAP	Felt I=III J Chengkung, II Taitung, Pinlang										
JMA	**X**	**17**	**13**	**28**	**43.8±.4**	**22.75N±.03**	**121.59E±.03**	**84**	**3.6**		**¶97x2995**
TAP	X	17	13	28	42.0	22.79N	121.42E	20	3.8L		
JMA	**X**	**17**	**22**	**45**	**25.2±.4**	**22.67N±.04**	**121.75E±.04**	**92**			**¶97x3068**
TAP	X	17	22	45	21.5	22.64N	121.56E	8	3.5L		
TAP	**X**	**18**	**18**	**42**	**11.9**	**21.21N**	**120.13E**	**85**	**3.4L**		**180-0**
											¶97x3212
TAP	**X**	**20**	**20**	**36**	**00.5**	**22.07N**	**121.80E**	**2**	**3.2L**		**180-0**
											¶97x3556
JMA	**X**	**22**	**00**	**35**	**02.8±.3**	**24.42N±.05**	**122.51E±.02**	**58±2**	**2.8**		**¶97x3730**
TAP	X	22	00	35	04.3	24.10N	122.54E	42	3.2L		
ISC	**X**	**22**	**11**	**10**	**08.9±.41**	**24.85N±.061**	**122.28E±.046**	**114±5.9**	**4.3b**	**37**	**0-50**
EIDC	X	22	11	10	02.1	24.3N	122.3E	0	4.4b,4.4L		**¶97x3796**
BJI	X	22	11	10	02.8	24.58N	122.62E	23	3.6L		
NEIC	X	22	11	10	03.3	24.44N	122.13E	33	4.5b		
JMA	X	22	11	10	10.8±.4	24.79N±.05	122.34E±.03	93±4			
TAP	X	22	11	10	11.0	24.77N	122.25E	95	4.7L		
NEIC	Less reliable solution.										
TAP	Felt I=III J										
ISC	**X**	**22**	**11**	**16**	**27.6±.40**	**22.41N±.028**	**121.51E±.035**	**35±3.8**	**4.7b,4.3s**	**127**	**0-159**
BJI	X	22	11	16	25.0	22.50N	121.55E	16	4.6L,4.4b		**¶97x3798**
TAP	X	22	11	16	26.6	22.44N	121.46E	10	5.3L		
NEIC	X	22	11	16	26.8	22.37N	121.61E	33	4.9b,4.5s		
JMA	X	22	11	16	30.1±.4	22.52N±.03	121.64E±.03	48	4.6		
EIDC	X	22	11	16	30.1	22.4N	121.6E	46	4.1b,4.3s		
BJI	Ms4.3										
TAP	Felt I=II J Taitung, Tawu, Chengkung, Hengchun, Kaohsiung, Chiayi, Lanyu, I Alishan										
JMA	**X**	**22**	**17**	**21**	**41.3±.4**	**24.73N±.06**	**122.54E±.02**	**90**	**2.9**		**¶97x3856**
TAP	X	22	17	21	41.6	24.58N	122.52E	83	3.3L		
TAP	**X**	**23**	**05**	**09**	**31.2**	**24.75N**	**122.23E**	**8**	**3.1L**		**180-0**
											¶97x3927
ISC	**X**	**23**	**20**	**50**	**00±1.0**	**24.58N±.085**	**122.17E±.054**	**69±17**			**22 0-3**
JMA	X	23	20	50	00.4±.6	24.70N±.07	122.23E±.04	64	3.8		**¶97x4061**
TAP	X	23	20	50	01.3	24.63N	122.13E	53	4.0L		
TAP	Felt I=II J										
TAP	**X**	**24**	**23**	**07**	**51.2**	**22.04N**	**121.05E**	**8**	**3.3L**		**180-0**
											¶97x4231
TAP	**X**	**24**	**23**	**11**	**10.1**	**22.00N**	**121.04E**	**16**	**3.0L**		**180-0**
											¶97x4233
TAP	**X**	**24**	**23**	**49**	**19.6**	**21.82N**	**121.46E**	**50**	**3.3L**		**180-0**
											¶97x4237
ISC	**X**	**25**	**02**	**40**	**16.2±.35**	**24.29N±.031**	**122.15E±.041**	**53±4.5**	**4.1b,3.6s**	**65**	**0-83**
NEIC	X	25	02	40	14.2	24.32N	122.11E	33	4.5b		**¶97x4257**
JMA	X	25	02	40	14.5±.7	24.84N±.07	122.10E±.05	33	4.4		
TAP	X	25	02	40	15.9	24.29N	122.11E	13	4.8L		
BJI	X	25	02	40	15.9	24.52N	121.90E	13	4.4L,4.4b		
EIDC	X	25	02	40	16.7	24.3N	122.1E	39	3.8b,4.1L		
NEIC	Less reliable solution.										
TAP	Felt I=III J, I Ilan, Neicheng										
BJI	Ms4.4										
TAP	**X**	**25**	**03**	**15**	**16.2**	**22.91N**	**121.34E**	**18**	**3.5L**		**180-0**
											¶97x4263
TAP	**X**	**26**	**02**	**15**	**28.0**	**21.60N**	**121.05E**	**21**	**3.2L**		**180-0**
											¶97x4404
TAP	**X**	**27**	**01**	**06**	**34.5**	**21.99N**	**121.44E**	**38**	**3.5L**		**180-0**
											¶97x4545
JMA	**X**	**27**	**05**	**16**	**58.0±.3**	**23.97N±.02**	**122.90E±.02**	**32±5**	**3.4**		**¶97x4576**
TAP	X	27	05	16	58.7	23.94N	122.90E	35	3.2L		
TAP	**X**	**27**	**19**	**04**	**09.5**	**24.66N**	**122.35E**	**1**	**3.0L**		**180-0**
											¶97x4645
JMA	**X**	**28**	**05**	**06**	**38.0±.9**	**24.91N±.04**	**122.81E±.04**	**22**	**3.2**		**¶97x4715**
TAP	**X**	**28**	**07**	**09**	**30.6**	**21.68N**	**121.83E**	**29**	**3.2L**		**180-0**
											¶97x4722
TAP	**X**	**28**	**07**	**46**	**55.5**	**22.07N**	**121.41E**	**11**	**3.2L**		**180-0**
											¶97x4727
TAP	**X**	**28**	**19**	**53**	**58.5**	**24.69N**	**122.02E**	**59**	**3.1L**		**180-0**
											¶97x4807
JMA	**X**	**29**	**00**	**22**	**00.3±.5**	**24.43N±.07**	**122.17E±.03**	**54**	**3.0**		**¶97x4834**
TAP	X	29	00	21	59.9	24.06N	122.17E	10	3.0L		
JMA	**X**	**29**	**09**	**18**	**07.3±.5**	**24.95N±.02**	**122.73E±.03**	**27**	**3.0**		**¶97x4887**
JMA	**X**	**29**	**09**	**37**	**09.6±.5**	**24.55N±.07**	**122.17E±.03**	**65**	**2.9**		**¶97x4888**
TAP	X	29	09	37	08.2	24.30N	122.13E	48	3.2L		
TAP	**X**	**30**	**16**	**36**	**46.1**	**22.65N**	**121.33E**	**20**	**3.3L**		**180-0**
											¶97x5068
TAP	**X**	**30**	**16**	**54**	**58.3**	**22.62N**	**121.36E**	**28**	**3.6L**		**180-0**
											¶97x5069
TAP	**X**	**31**	**06**	**19**	**39.1**	**24.68N**	**122.49E**	**57**	**3.1L**		**180-0**
											¶97x5144
TAP	**X**	**31**	**06**	**48**	**32.2**	**22.43N**	**121.40E**	**77**	**3.8L**		**200-0**
											¶97x5147
TAP	**X**	**31**	**12**	**42**	**56.5**	**22.47N**	**121.46E**	**21**	**3.1L**		**180-0**
											¶97x5182
JMA	**XI**	**01**	**11**	**03**	**00.7±.5**	**24.06N±.04**	**122.24E±.03**	**41**	**3.3**		**¶97xi0068**
TAP	XI	01	11	02	59.7	23.99N	122.31E	12	3.7L		
ISC	**XI**	**01**	**12**	**18**	**02.0±.46**	**22.96N±.031**	**121.21E±.052**	**7**	**3.2b**	**35**	**0-48**
TAP	XI	01	12	18	01.6	22.96N	121.22E	7	4.3L		**¶97xi0078**
JMA	XI	01	12	18	02.5±.5	22.89N±.07	121.25E±.06	95			
EIDC	XI	01	12	18	05.4	22.4N	121.8E	0	3.2b,3.6L		
BJI	XI	01	12	18	09.7	23.52N	121.08E	31	3.6L		
TAP	Felt I=III J Pinlang, II Chengkung										
TAP	**XI**	**01**	**13**	**21**	**20.4**	**21.65N**	**120.99E**	**4**	**3.0L**		**200-0**
											¶97xi0084
TAP	**XI**	**01**	**18**	**59**	**35.5**	**24.62N**	**122.40E**	**3**	**3.2L**		**180-0**
											¶97xi0126
ISC	**XI**	**02**	**22**	**05**	**26±2.0**	**24.35N±.047**	**122.0E±.16**	**8±8.8**			**17 0-2**
TAP	XI	02	22	05	27.8	24.40N	121.88E	11	3.5L		**¶97xi0344**
TAP	Felt I=IV J										
JMA	**XI**	**02**	**22**	**49**	**46.3±.3**	**24.53N±.05**	**122.89E±.02**	**62±3**			**¶97xi0349**

TAP XI 03 04 07 28.5 24.51N 122.08E 63 3.1L 180-0
¶97xi0401
TAP XI 03 15 37 18.8 24.70N 122.83E 8 3.2L 180-0
¶97xi0488
ISC XI 03 21 04 10.4±.89 24.63N±.056 122.49E±.040 4±7.7 4.0b 31 0-59
JMA XI 03 21 04 07.7±.8 24.95N±.05 122.49E±.05 6 3.8 **¶97xi0518**
BJI XI 03 21 04 08.4 24.28N 122.44E 10 3.7L,4.3b
TAP XI 03 21 04 10.3 24.60N 122.52E 7 4.4L
EIDC XI 03 21 04 40.2 24.7N 125.0E 238 3.4b
TAP Felt I=II J
TAP XI 04 17 15 31.1 24.72N 122.59E 18 3.4L 180-0
¶97xi0667
TAP XI 04 21 45 30.3 24.05N 122.27E 6 3.3L 180-0
¶97xi0691
TAP XI 05 08 11 12.1 21.75N 121.40E 10 3.4L 180-0
¶97xi0754
ISC XI 05 20 13 50±1.1 25.5N±.11 122.4E±.28 269±12 3.3b 11 1-83
NEIC XI 05 20 13 26.3 24.94N 120.48E 33 3.6b **¶97xi0856**
EIDC XI 05 20 13 30.0 25.0N 120.7E 51 3.5b,3.6L
TAP XI 05 20 13 49.5 25.51N 122.60E 277 4.5L
JMA XI 05 20 13 53.0±.5 25.78N±.05 122.49E±.04 220
NEIC Less reliable solution.
JMA XI 06 04 30 45.8±.7 24.95N±.06 122.99E±.05 99 ¶97xi0921
ISC XI 07 04 22 32.8±.49 24.47N±.056 122.27E±.051 67 24 0-3
TAP XI 07 04 22 32.6 24.47N 122.32E 59 4.3L **¶97xi1070**
JMA XI 07 04 22 34.1±.4 24.65N±.05 122.42E±.03 67 3.7
TAP Felt I=II J
TAP XI 07 07 23 14.2 24.50N 122.35E 60 3.0L 180-0
¶97xi1093
TAP XI 07 09 33 50.0 22.15N 121.32E 4 3.2L 180-0
¶97xi1108
ISC XI 08 14 39 14±5.6 24.8N±.36 122.6E±.51 94 6 0-4
TAP XI 08 14 39 14.2 24.51N 122.85E 43 3.8L **¶97xi1293**
JMA XI 08 14 39 15.6±.3 24.60N±.04 122.73E±.02 94
TAP XI 08 15 10 14.6 21.91N 121.61E 12 3.0L 180-0
¶97xi1300
JMA XI 09 04 44 27.4±.3 24.96N±.05 122.26E±.02 78±4 3.4 ¶97xi1397
TAP XI 09 04 44 27.4 24.77N 122.14E 79 4.1L
TAP XI 10 00 26 28.3 22.32N 121.29E 14 3.7L 180-0
¶97xi1531
TAP XI 10 16 33 22.8 25.03N 122.13E 112 3.3L 180-0
¶97xi1638
TAP XI 10 19 09 25.1 23.52N 122.71E 78 3.4L 180-0
¶97xi1661
TAP XI 10 21 59 48.4 21.02N 120.61E 53 3.3L 180-0
¶97xi1681
TAP XI 11 03 32 57.2 24.80N 122.50E 95 3.4L 180-0
¶97xi1721
TAP XI 11 03 46 59.9 24.25N 122.18E 116 3.3L 180-0
¶97xi1724
TAP XI 11 03 58 55.8 21.57N 121.62E 168 3.5L 1-1
¶97xi1727
JMA XI 11 16 52 46.2±.2 24.65N±.05 122.08E±.02 39 3.1 ¶97xi1827
TAP XI 11 16 52 47.0 24.64N 122.26E 2 3.2L
JMA XI 11 18 11 05.9±.5 24.84N±.06 122.18E±.04 25 3.2 ¶97xi1843
TAP XI 11 18 11 06.6 24.67N 122.23E 2 3.4L
BJI XI 11 18 53 07.5 23.77N 118.34E 4 3.1L ¶97xi1853
TAP XI 11 20 50 23.9 24.55N 122.37E 71 3.0L 180-0
¶97xi1871
ISC XI 12 00 09 34.4±.34 21.61N±.028 121.45E±.040 78±3.0 4.8b 156 0-170
MOS XI 12 00 09 33.7 21.7N 121.9E 75 5.3b **¶97xi1903**
BJI XI 12 00 09 34.0 21.78N 121.52E 60 4.5L,4.8b
NEIC XI 12 00 09 34.8 21.60N 121.49E 85 5.0b
TAP XI 12 00 09 35.9 21.75N 121.40E 70 5.3L
EIDC XI 12 00 09 36.2 21.7N 121.7E 85 4.4b,4.0s
JMA XI 12 00 09 37.5±.4 21.89N±.04 121.54E±.05 136
BJI Ms4.3
TAP Felt I=III J Lanyu, II Kaohsiung
TAP XI 12 00 40 02.0 21.75N 121.36E 80 3.5L 1-1
¶97xi1909
JMA XI 12 21 46 30.5±.5 24.59N±.08 122.26E±.04 70 3.4 ¶97xi2037
TAP XI 12 21 46 30.0 24.27N 122.24E 39 3.8L
ISC XI 13 17 13 29±4.0 24.7N±.35 122.8E±.38 82 5 0-4
TAP XI 13 17 13 28.6 24.40N 122.76E 69 3.2L **¶97xi2172**
JMA XI 13 17 13 30.1±.3 24.56N±.04 122.82E±.02 82±2 2.9
ISC Poorly determined
JMA XI 14 09 04 22.6±.2 24.76N±.04 122.30E±.02 115 ¶97xi2263
TAP XI 14 09 04 22.0 24.85N 122.22E 109 3.4L
JMA XI 15 19 38 28.1±.8 24.03N±.04 122.64E±.05 31 2.8 ¶97xi2524
JMA XI 15 21 02 22.3±.4 23.89N±.03 122.97E±.02 24±4 3.4 ¶97xi2537
TAP XI 15 21 02 20.0 23.74N 122.86E 12 3.4L
JMA XI 15 22 17 37.5±.3 22.70N±.03 121.56E±.03 67 3.4 ¶97xi2551
TAP XI 15 22 17 34.7 22.78N 121.47E 19 3.8L
TAP XI 16 12 03 54.2 24.50N 122.34E 27 3.1L 180-0
¶97xi2645
JMA XI 16 22 48 35.3±.2 23.84N±.04 122.11E±.02 120 ¶97xi2705
TAP XI 16 22 48 33.1 23.79N 121.82E 37 3.7L
TAP XI 18 01 18 41.6 25.01N 122.51E 111 3.1L 180-0
¶97xi2891
ISC XI 18 10 49 27±2.0 24.4N±.13 122.6E±.31 111±15 3.7b 8 0-59
EIDC XI 18 10 49 21.6 24.0N 124.2E 0 3.7b,4.0L **¶97xi2947**
TAP XI 18 10 49 24.8 24.77N 122.48E 110 4.1L
JMA XI 18 10 49 26.0±.3 24.81N±.05 122.53E±.02 106±3
EIDC LO CONF Location
TAP XI 19 02 58 44.2 23.91N 122.21E 7 3.1L 180-0
¶97xi3119
JMA XI 19 03 00 54.8±.6 23.90N±.04 122.18E±.04 37 3.7 ¶97xi3121
TAP XI 19 03 00 54.0 23.92N 122.23E 10 3.9L
TAP XI 19 14 33 24.1 24.88N 122.18E 104 3.1L 180-0
¶97xi3239
JMA XI 19 16 37 55.1±.2 25.18N±.03 122.05E±.02 56±4 2.9 ¶97xi3259
TAP XI 19 16 37 54.3 24.84N 121.81E 84 3.7L
JMA XI 19 17 43 38.5±.7 25.09N±.05 122.23E±.05 14 3.1 ¶97xi3275
TAP XI 19 17 43 39.2 24.44N 121.91E 12 3.2L
ISC XI 20 02 02 36±4.0 24.8N±.55 122.9E±.31 106 4 0-2
JMA XI 20 02 02 36.8±.4 24.77N±.05 122.93E±.02 106±4 **¶97xi3370**
ISC Poorly determined
JMA XI 20 15 23 29.0±.4 24.63N±.07 122.17E±.03 54 3.0 ¶97xi3480
TAP XI 20 15 23 28.0 24.29N 122.11E 8 3.5L
TAP XI 20 15 40 06.2 24.61N 122.84E 108 3.1L 180-0
¶97xi3483

TAP XI 20 16 57 07.7 22.86N 121.42E 28 3.2L 180-0
¶97xi3500
TAP XI 21 02 12 13.8 21.17N 121.25E 27 3.0L 1-1
¶97xi3568
TAP XI 22 00 40 58.6 22.67N 121.57E 13 3.1L 180-0
¶97xi3766
ISC XI 22 17 01 31±2.7 24.6N±.48 123.0E±.25 90 5 0-2
JMA XI 22 17 01 31.1±.3 24.61N±.03 122.96E±.01 90±2 3.4 **¶97xi3914**
ISC Poorly determined
TAP XI 22 22 33 11.3 21.56N 121.35E 22 3.1L 180-0
¶97xi3973
JMA XI 23 14 42 14.8±.3 24.45N±.03 122.97E±.01 77±2 2.6 ¶97xi4133
ISC XI 23 16 02 47±1.5 24.5N±.23 122.1E±.10 4 4.2b 13 1-59
JMA XI 23 16 02 41.8±.6 24.11N±.07 121.54E±.04 65 3.5 **¶97xi4148**
TAP XI 23 16 02 42.6 24.14N 121.72E 4 4.1L
BJI XI 23 16 02 47.8 24.45N 121.34E 19 3.6L
EIDC XI 23 16 02 52.0 24.1N 121.7E 0 3.7b,3.8L
NEIC XI 23 16 02 54.0 24.17N 121.76E 33 4.4b
NEIC Less reliable solution.
JMA XI 23 16 14 32.2±.5 24.08N±.04 122.65E±.03 48±5 3.1 ¶97xi4149
TAP XI 23 16 14 32.4 24.04N 122.56E 28 3.1L
ISC XI 23 17 23 46.4±.50 24.04N±.029 122.94E±.041 40±5.4 4.7b,4.3s 101 0-168
JMA XI 23 17 23 45.6±.4 23.97N±.03 122.85E±.02 39±4 4.7 **¶97xi4163**
NEIC XI 23 17 23 45.6 24.07N 122.97E 33 4.8b
BJI XI 23 17 23 46.3 24.13N 123.20E 40 4.5L,4.6b
EIDC XI 23 17 23 50.6 24.2N 122.9E 59 4.2b,4.3s
NEIC Felt I=II J1 on Yonaguni and I J1 on Iriomote-shima, Ryukyu Islands.
BJI Ms4.4
TAP XI 23 18 56 28.3 21.03N 122.12E 160 3.7L 180-0
¶97xi4177
JMA XI 24 15 49 21.9±.5 24.60N±.08 122.02E±.04 78 3.3 ¶97xi4345
TAP XI 24 15 49 20.7 24.32N 121.84E 61 3.6L
JMA XI 24 22 03 31.6±.3 24.02N±.02 122.92E±.02 31±3 3.3 ¶97xi4395
TAP XI 25 08 06 14.8 21.87N 120.99E 16 3.5L 180-0
¶97xi4468
TAP XI 25 08 51 44.1 22.87N 121.64E 7 3.0L 180-0
¶97xi4475
ISC XI 25 12 36 55±8.9 24.7N±.76 122.5E±.70 90 4 0-2
TAP XI 25 12 36 53.9 24.61N 122.51E 88 3.3L **¶97xi4510**
JMA XI 25 12 36 54.9±.5 24.70N±.06 122.51E±.03 90 2.9
ISC Poorly determined
BJI XI 25 14 22 52.4 24.78N 122.30E 5 3.6L,4.3b ¶97xi4533
TAP XI 26 15 16 28.4 25.41N 122.38E 279 3.7L 180-0
¶97xi4709
TAP XI 26 16 36 03.0 24.66N 122.92E 86 3.0L 180-0
¶97xi4720
ISC XI 26 16 54 09.8±.54 24.38N±.038 122.04E±.046 10 24 0-3
JMA XI 26 16 54 09.4±.5 25.10N±.03 122.29E±.03 10 3.4 **¶97xi4721**
TAP XI 26 16 54 10.5 24.39N 121.98E 14 4.0L
BJI XI 26 16 54 19.9 25.26N 121.15E 10 3.3L
TAP Felt I=III J
TAP XI 27 15 30 16.5 21.87N 121.07E 11 3.5L 2-2
¶97xi4885
ISC XI 27 16 29 28±4.7 21.84N±.061 119.93E±.070 9±32 3.7b 22 2-57
TAP XI 27 16 29 30.6 22.00N 119.87E 49 4.4L **¶97xi4899**
NEIC XI 27 16 29 31.2 21.81N 119.93E 33
BJI XI 27 16 29 31.3 22.05N 119.72E 20 3.7L
JMA XI 27 16 29 34.6±.5 21.83N±.07 120.37E±.06 117
EIDC XI 27 16 29 46.3 21.8N 119.6E 161 3.3b
NEIC Less reliable solution.
ISC XI 28 00 45 51±8.6 24.1N±.67 122.8E±.57 47 4 0-2
JMA XI 28 00 45 51.4±.3 24.14N±.02 122.88E±.02 47±2 3.1 **¶97xi4975**
ISC Poorly determined
TAP XI 28 13 14 25.4 22.26N 122.62E 10 3.2L 180-0
¶97xi5089
ISC XI 28 13 32 48±2.9 25.0N±.19 122.9E±.30 98 8 1-5
JMA XI 28 13 32 49.9±.3 24.82N±.04 122.95E±.02 98±3 **¶97xi5092**
TAP XI 28 13 32 49.9 24.66N 122.93E 93 4.3L
ISC XI 28 20 26 02±2.6 24.5N±.58 122.5E±.14 18±29 5 0-4
BJI XI 28 20 25 50.5 22.49N 122.44E 15 3.4L **¶97xi5139**
JMA XI 28 20 26 02.2±.9 24.66N±.06 122.54E±.06 21 3.7
TAP XI 28 20 26 02.2 24.62N 122.44E 7 4.1L
ISC Poorly determined
TAP XI 28 20 37 55.3 24.61N 122.29E 4 3.1L 1-2
JMA XI 28 20 37 53.6±.9 24.75N±.04 122.63E±.05 0 2.8 **¶97xi5141**
ISC XI 28 23 07 09±1.9 24.1N±.40 122.3E±.10 34 5 1-3
BJI XI 28 23 07 01.7 23.81N 122.71E 25 3.0L **¶97xi5153**
TAP XI 28 23 07 07.5 23.99N 122.36E 11 3.9L
JMA XI 28 23 07 09.1±.9 24.04N±.05 122.38E±.06 34 3.3
JMA XI 29 01 46 30.7±.7 24.27N±.06 122.31E±.05 38 2.8 ¶97xi5173
TAP XI 29 01 46 29.2 24.04N 122.30E 13 3.2L
BJI XI 29 20 25 57.8 21.44N 121.48E 21 3.2L ¶97xi5317
TAP XI 30 02 11 35.6 21.53N 121.45E 6 3.0L 180-0
¶97xi5353
JMA XI 30 09 38 03.9±.7 23.90N±.04 122.49E±.04 51 3.5 ¶97xi5396
TAP XI 30 09 38 02.5 23.77N 122.35E 2 3.7L
JMA XI 30 09 58 55.9±.6 24.76N±.04 122.61E±.04 19 3.5 ¶97xi5399
TAP XI 30 09 58 56.2 24.60N 122.41E 2 3.7L
TAP XI 30 21 51 35.1 22.80N 121.56E 11 3.2L 180-0
¶97xi5467
TAP XI 30 22 03 26.8 22.81N 121.54E 7 3.4L 180-0
¶97xi5468
JMA XII 01 02 45 06.5±.9 24.01N±.04 122.50E±.05 26 2.9 ¶97xii0017
TAP XII 01 02 45 04.6 23.93N 122.43E 5 3.3L
JMA XII 01 07 49 25.8±.4 23.99N±.02 122.48E±.02 47 2.9 ¶97xii0052
TAP XII 01 07 49 22.8 23.79N 122.37E 3 3.3L
TAP XII 01 20 02 42.2 24.71N 122.55E 83 3.1L 180-0
¶97xii0139
TAP XII 03 01 09 58.6 24.83N 122.33E 7 3.1L 180-0
¶97xii0346
TAP XII 03 15 24 09.4 22.46N 121.46E 39 3.0L 180-0
¶97xii0454
TAP XII 04 07 33 35.9 25.19N 122.24E 93 3.1L 180-0
¶97xii0572
JMA XII 04 17 53 11.8±.2 24.13N±.02 122.52E±.01 37±3 3.5 ¶97xii0662
TAP XII 04 17 53 09.7 23.94N 122.47E 10 3.5L
TAP XII 05 16 34 32.7 24.52N 122.12E 132 3.3L 180-0
¶97xii0960
TAP XII 06 21 16 14.2 24.66N 122.41E 6 3.1L 180-0
¶97xii1533

Agency	mo	Origin Time d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °	
TAP	**XII**	**07**	**18**	**03**	**57.9**	**25.06N**	**120.96E**	**122**	**3.4L**		**180-0**	
												¶97xii1753
JMA	**XII**	**09**	**00**	**30**	**35.6±.5**	**24.70N±.07**	**122.23E±.04**	**66**	**3.7**			¶97xii2054
TAP	XII	09	00	30	34.1	24.52N	122.12E	61	4.1L			
TAP	**XII**	**09**	**01**	**15**	**35.2**	**21.74N**	**121.33E**	**11**	**3.5L**		**180-0**	
												¶97xii2067
JMA	**XII**	**09**	**18**	**42**	**18.5±.4**	**24.11N±.02**	**122.50E±.02**	**30**	**3.1**			¶97xii2216
TAP	XII	09	18	42	16.6	24.03N	122.48E	16	3.4L			
JMA	**XII**	**10**	**00**	**51**	**59.7±.3**	**25.03N±.03**	**122.86E±.02**	**108**				¶97xii2272
TAP	**XII**	**10**	**02**	**17**	**13.2**	**24.37N**	**122.02E**	**54**	**3.3L**		**180-0**	
												¶97xii2279
TAP	**XII**	**10**	**04**	**39**	**09.7**	**21.66N**	**119.94E**	**59**	**3.0L**		**180-0**	
												¶97xii2291
TAP	**XII**	**10**	**12**	**11**	**10.1**	**21.41N**	**121.63E**	**19**	**3.1L**		**180-0**	
												¶97xii2346
BJI	**XII**	**10**	**19**	**18**	**21.8**	**22.61N**	**117.52E**	**15**	**4.2L**			¶97xii2412
ISC	**XII**	**11**	**06**	**01**	**47±3.4**	**23.0N±.15**	**121.6E±.24**	**6**			**6**	**0-1**
TAP	XII	11	06	01	46.8	22.94N	121.53E	6	3.0L			¶97xii2504
TAP	Felt I=II J											
JMA	**XII**	**12**	**01**	**26**	**41.8±.2**	**24.36N±.02**	**122.89E±.01**	**63±2**	**2.7**			¶97xii2678
TAP	**XII**	**12**	**13**	**50**	**02.7**	**21.04N**	**122.32E**	**185**	**3.9L**		**180-0**	
												¶97xii2757
TAP	**XII**	**12**	**15**	**05**	**43.6**	**24.83N**	**122.52E**	**107**	**3.1L**		**180-0**	
												¶97xii2769
ISC	**XII**	**12**	**20**	**29**	**08±1.0**	**24.04N±.098**	**122.33E±.076**	**48±10**	**3.8b,3.1s**		**22**	**1-83**
BJI	XII	12	20	28	58.7	23.71N	122.88E	15	3.8L,4.3b			¶97xii2816
NEIC	XII	12	20	29	06.0	24.01N	121.96E	33	3.5b			
TAP	XII	12	20	29	06.8	24.05N	122.34E	5	4.3L			
JMA	XII	12	20	29	07.0±.4	24.14N±.04	122.29E±.03	43	4.0			
EIDC	XII	12	20	29	10.4±1.21	24.1N	122.1E	54±8.0	3.5b,3.1s			
BJI	Ms3.7											
NEIC	Less reliable solution.											
EIDC	Error ellipse is semi−major=36.6km semi−minor=17.7km azimuth=74											
JMA	**XII**	**13**	**02**	**12**	**51.5±.3**	**24.00N±.01**	**122.79E±.03**	**9±4**	**2.8**			¶97xii2861
JMA	**XII**	**13**	**04**	**11**	**29.7±.3**	**23.97N±.02**	**122.71E±.02**	**21±3**	**3.7**			¶97xii2881
TAP	XII	13	04	11	27.7	23.92N	122.57E	2	3.8L			
ISC	**XII**	**13**	**19**	**43**	**05±7.2**	**25.4N±.86**	**122.6E±.49**	**195**			**5**	**1-2**
TAP	XII	13	19	42	59.8	25.53N	122.53E	237	3.7L			¶97xii3005
JMA	XII	13	19	43	03.2±.5	25.57N±.06	122.55E±.04	195				
JMA	**XII**	**13**	**21**	**04**	**45.6±.2**	**24.44N±.03**	**122.22E±.01**	**54±1**	**3.0**			¶97xii3021
TAP	XII	13	21	04	44.9	24.03N	122.26E	20	3.2L			
JMA	**XII**	**14**	**00**	**09**	**10.7±.2**	**24.04N±.01**	**122.69E±.01**	**28±2**	**2.8**			¶97xii3040
JMA	**XII**	**14**	**02**	**32**	**52.0±.3**	**24.75N±.04**	**122.51E±.01**	**66±2**	**2.8**			¶97xii3066
TAP	**XII**	**15**	**09**	**31**	**48.0**	**22.71N**	**121.10E**	**17**	**3.0L**		**180-0**	
												¶97xii3262
TAP	**XII**	**15**	**13**	**16**	**09.3**	**21.29N**	**121.22E**	**60**	**3.3L**		**180-0**	
												¶97xii3292
ISC	**XII**	**15**	**20**	**28**	**00±1.2**	**21.8N±.16**	**119.7E±.26**	**33**	**3.9b**		**5**	**15-80**
EIDC	XII	15	20	27	56.5±1.24	21.8N	119.6E	0	4.0b,3.5L			¶97xii3339
EIDC	Error ellipse is semi−major=67.7km semi−minor=26.0km azimuth=76											
ISC	**XII**	**16**	**04**	**58**	**15±1.3**	**21.7N±.17**	**119.4E±.26**	**34**	**3.5b**		**6**	**3-86**
TAP	XII	16	04	58	16.0	21.68N	120.15E	34	3.9L			¶97xii3386
EIDC	XII	16	04	58	17.7±7.19	21.8N	122.3E	0	3.5b			
EIDC	Error ellipse is semi−major=436.4km semi−minor=23.2km azimuth=91											
JMA	**XII**	**16**	**07**	**31**	**36.0±.1**	**24.98N±.01**	**122.80E±.01**	**85±3**	**2.8**			¶97xii3405
ISC	**XII**	**16**	**17**	**23**	**54±2.7**	**24.3N±.43**	**123.0E±.25**	**47**			**4**	**0-2**
TAP	XII	16	17	23	53.9	24.37N	122.83E	19	3.1L			¶97xii3481
JMA	XII	16	17	23	54.3±.2	24.37N±.02	123.00E±.01	47±1	3.0			
ISC	Poorly determined											
TAP	**XII**	**17**	**08**	**16**	**01.7**	**24.89N**	**122.28E**	**4**	**3.2L**		**180-0**	
												¶97xii3576
ISC	**XII**	**17**	**11**	**45**	**22±2.7**	**24.3N±.43**	**123.0E±.25**	**47**			**5**	**0-2**
TAP	XII	17	11	45	22.4	24.35N	122.84E	20	3.9L			¶97xii3599
JMA	XII	17	11	45	22.6±.3	24.39N±.02	123.02E±.02	47±2	3.7			
ISC	Poorly determined											
JMA	**XII**	**17**	**12**	**13**	**41.5±.4**	**24.78N±.06**	**122.94E±.02**	**120±4**				¶97xii3600
JMA	**XII**	**17**	**22**	**38**	**34.3±.6**	**24.24N±.06**	**122.21E±.04**	**50**	**3.6**			¶97xii3671
TAP	XII	17	22	38	32.8	23.96N	122.27E	10	3.6L			
TAP	**XII**	**18**	**08**	**26**	**31.2**	**21.28N**	**121.02E**	**53**	**3.6L**		**1-46**	
EIDC	XII	18	08	26	25.3±1.57	19.9N	121.4E	0	3.7b			¶97xii3738
EIDC	Error ellipse is semi−major=41.8km semi−minor=28.5km azimuth=62											
TAP	**XII**	**18**	**20**	**51**	**23.6**	**21.40N**	**121.86E**	**13**	**3.5L**		**180-0**	
												¶97xii3825
ISC	**XII**	**19**	**15**	**53**	**13.3±.96**	**24.0N±.15**	**122.24E±.082**	**45**	**3.6b**		**10**	**1-49**
EIDC	XII	19	15	53	09.8±1.49	23.8N	121.7E	0	3.6b,3.6L			¶97xii3991
TAP	XII	19	15	53	12.2	23.92N	122.30E	6	4.0L			
BJI	XII	19	15	53	12.5	24.10N	122.14E	28	3.1L			
JMA	XII	19	15	53	13.0±.6	24.05N±.05	122.23E±.04	45	3.6			
EIDC	Error ellipse is semi−major=81.7km semi−minor=26.3km azimuth=76											
TAP	**XII**	**20**	**20**	**24**	**26.8**	**22.83N**	**121.36E**	**14**	**3.3L**		**180-0**	
												¶97xii4164
ISC	**XII**	**21**	**05**	**16**	**20.2±.53**	**24.07N±.037**	**123.00E±.039**	**41±5.6**	**4.6b,4.5s**		**84**	**0-169**
EIDC	XII	21	05	16	15.8±.56	24.2N	123.1E	0	4.5b,4.3s			¶97xii4218
BJI	XII	21	05	16	18.7	24.13N	123.05E	29	4.5L,4.6b			
NEIC	XII	21	05	16	19.1	24.14N	123.06E	33	4.9b			
JMA	XII	21	05	16	19.9±.5	24.03N±.04	122.89E±.03	39±5	4.7			
EIDC	Error ellipse is semi−major=27.5km semi−minor=12.6km azimuth=74											
BJI	Ms4.4											
NEIC	Felt I=I J in the epicentral area.											
JMA	**XII**	**21**	**05**	**52**	**31.1±.2**	**24.18N±.01**	**122.89E±.01**	**48±2**	**3.0**			¶97xii4223
TAP	XII	21	05	52	30.6	24.23N	122.98E	9	3.2L			
TAP	**XII**	**21**	**14**	**55**	**53.3**	**22.90N**	**121.40E**	**16**	**3.2L**		**180-0**	
												¶97xii4264
ISC	**XII**	**21**	**14**	**57**	**25±1.5**	**23.6N±.13**	**122.51E±.095**	**35±16**	**3.7b**		**13**	**1-84**
TAP	XII	21	14	57	23.7	23.64N	122.35E	3	4.1L			¶97xii4265
JMA	XII	21	14	57	25.1±.3	23.66N±.02	122.54E±.01	66	3.6			
EIDC	XII	21	14	57	33.7±1.45	23.5N	125.0E	55±11.7	3.4b,3.4s			
BJI	XII	21	14	57	35.4	24.52N	121.62E	5	3.3L			
EIDC	Error ellipse is semi−major=76.1km semi−minor=24.8km azimuth=89											
JMA	**XII**	**21**	**15**	**10**	**26.8±.5**	**23.63N±.03**	**122.52E±.03**	**58**	**3.3**			¶97xii4266
TAP	XII	21	15	10	26.0	23.56N	122.50E	35	3.8L			
TAP	**XII**	**21**	**16**	**30**	**42.0**	**23.64N**	**122.34E**	**6**	**3.1L**		**180-0**	
												¶97xii4276
TAP	**XII**	**21**	**16**	**31**	**24.3**	**23.63N**	**122.33E**	**11**	**3.1L**		**180-0**	
												¶97xii4277
ISC	**XII**	**22**	**03**	**30**	**31±3.0**	**24.35N±.061**	**122.2E±.21**	**5±13**			**15**	**0-2**
TAP	XII	22	03	30	33.5	24.43N	122.02E	12	3.2L			¶97xii4345
TAP	Felt I=III J											
TAP	**XII**	**22**	**19**	**40**	**25.1**	**22.72N**	**121.42E**	**12**	**3.5L**		**180-0**	
												¶97xii4478
ISC	**XII**	**23**	**02**	**35**	**47.8±.36**	**23.98N±.030**	**122.38E±.035**	**45±3.8**	**4.3b,4.2s**		**90**	**1-91**
TAP	XII	23	02	35	45.7	23.98N	122.33E	5	4.8L			¶97xii4523
JMA	XII	23	02	35	47.6±.5	24.09N±.04	122.33E±.03	40	4.4			
NEIC	XII	23	02	35	54.0	24.03N	122.30E	100	4.5b			
EIDC	XII	23	02	35	55.3±5.27	24.1N	122.3E	99±49.6	3.8b,4.3s			
BJI	XII	23	02	35	56.6	24.57N	122.05E	100	4.4b			
TAP	Felt I=II J											
EIDC	Error ellipse is semi−major=26.3km semi−minor=14.4km azimuth=79											
JMA	**XII**	**23**	**03**	**20**	**16.6±.8**	**23.98N±.04**	**122.40E±.05**	**23**	**3.2**			¶97xii4530
TAP	XII	23	03	20	14.5	23.96N	122.38E	7	3.5L			
TAP	**XII**	**23**	**03**	**23**	**15.7**	**24.66N**	**122.37E**	**102**	**3.2L**		**180-0**	
												¶97xii4532
TAP	**XII**	**23**	**04**	**25**	**00.4**	**23.94N**	**122.45E**	**5**	**3.3L**		**180-0**	
												¶97xii4541
JMA	**XII**	**27**	**11**	**09**	**11.0±.3**	**24.14N±.06**	**122.03E±.02**	**96**				¶97xii5283
TAP	XII	27	11	09	10.2	24.86N	121.93E	92	3.3L			
ISC	**XII**	**28**	**20**	**08**	**01±1.5**	**24.1N±.22**	**122.8E±.12**	**52±13**	**3.4b**		**12**	**0-82**
TAP	XII	28	20	07	58.1	23.79N	122.84E	29	4.2L			¶97xii5491
JMA	XII	28	20	07	59.5±.4	23.94N±.04	122.78E±.02	51±4	3.8			
EIDC	XII	28	20	08	18.7±7.26	25.0N	122.0E	155±70.3	3.0b			
EIDC	Error ellipse is semi−major=34.9km semi−minor=23.2km azimuth=79											
TAP	**XII**	**28**	**20**	**09**	**11.1**	**23.77N**	**122.60E**	**2**	**3.3L**		**180-0**	
												¶97xii5492
JMA	**XII**	**29**	**00**	**18**	**06.6±.5**	**23.92N±.03**	**122.78E±.02**	**51**	**3.7**			¶97xii5517
TAP	XII	29	00	18	01.8	23.74N	122.96E	5	3.8L			
ISC	**XII**	**29**	**07**	**56**	**39.1±.48**	**21.80N±.033**	**120.54E±.050**	**35±5.7**	**4.2b,3.8s**		**64**	**0-85**
EIDC	XII	29	07	56	35.8±.71	21.9N	120.7E	0	4.3b,4.3L			¶97xii5558
BJI	XII	29	07	56	37.9	22.01N	120.34E	9	3.6L,4.5b			
NEIC	XII	29	07	56	38.7	21.88N	120.74E	33	4.3b			
TAP	XII	29	07	56	39.8	21.90N	120.57E	44	4.6L			
JMA	XII	29	07	56	41.2±.4	21.82N±.06	120.75E±.05	73	4.4			
EIDC	Error ellipse is semi−major=24.1km semi−minor=15.4km azimuth=70											
BJI	Ms4.2											
TAP	Felt I=III J Hengchun											
TAP	**XII**	**29**	**07**	**57**	**52.1**	**21.92N**	**120.50E**	**41**	**3.6L**		**180-0**	
												¶97xii5559
TAP	**XII**	**29**	**22**	**16**	**06.8**	**22.36N**	**121.30E**	**67**	**3.1L**		**180-0**	
												¶97xii5644
ISC	**XII**	**30**	**10**	**54**	**31.0±.93**	**22.0N±.12**	**120.0E±.15**	**33**	3.6b		**10**	**2-47**
EIDC	XII	30	10	54	04.6	25.8N	121.8E	0	3.5b			¶97xii5722
TAP	XII	30	10	54	32.1	22.01N	119.88E	49	4.4L			
BJI	XII	30	10	54	37.5	22.84N	119.72E	5	3.7L,4.4s			
EIDC	Origin time error = 58.48Error ellipse is semi−major=1367.4km semi−minor=33.9km azimuth=21											
TAP	**XII**	**30**	**12**	**25**	**43.3**	**21.21N**	**122.19E**	**9**	**3.4L**		**1-4**	
												¶97xii5734
TAP	**XII**	**30**	**12**	**33**	**51.3**	**21.02N**	**121.92E**	**14**	**3.3L**		**1-1**	
												¶97xii5735
TAP	**XII**	**30**	**21**	**01**	**11.7**	**24.81N**	**122.01E**	**78**	**3.3L**		**180-0**	
												¶97xii5787
JMA	**XII**	**31**	**08**	**47**	**36.4±.3**	**24.94N±.04**	**122.27E±.02**	**99**				¶97xii5864
TAP	XII	31	08	47	36.3	24.82N	122.23E	96	3.4L			

(244) Taiwan.

TAP	**VII**	**01**	**19**	**58**	**40.9**	**24.44N**	**121.75E**	**7**	**2.0L**			¶97vii0135
TAP	Felt I=III J											
ISC	**VII**	**02**	**03**	**29**	**09±1.7**	**23.2N±.17**	**120.10E±.099**	**17**			**6**	**1-1**
TAP	VII	02	03	29	08.1	23.19N	120.09E	17	3.1L			¶97vii0175
TAP	Felt I=IV J											
TAP	**VII**	**03**	**00**	**10**	**47.9**	**24.14N**	**121.53E**	**38**	**3.8L**		**180-0**	
												¶97vii0325
TAP	**VII**	**03**	**02**	**25**	**01.3**	**24.83N**	**121.72E**	**92**	**3.2L**		**180-0**	
												¶97vii0343
ISC	**VII**	**04**	**18**	**37**	**31.3±.54**	**23.00N±.025**	**120.80E±.034**	**16±4.2**	**4.9b,4.7s**		**146**	**0-169**
TAP	VII	04	18	37	30.5	23.06N	120.79E	5	5.2L			¶97vii0603
BJI	VII	04	18	37	32.4	23.13N	120.81E	28	5.0L,4.9b			
NEIC	VII	04	18	37	33.3	22.97N	120.93E	33	4.9b,4.7s			
HRVD	VII	04	18	37	34.7±2.7	23.58N±.23	120.52E±.21	33				
EIDC	VII	04	18	37	37.3	23.0N	120.9E	60	4.3b,4.5s			
TAP	Felt I=V J, II Alishan, Tainan, Chiayi, Kaohsiung, I Hwalien											
BJI	Ms4.9											
NEIC	Mw5.1(HRV).											
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c11; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.82±.49; $M_{\theta\theta}$0.13±.50; $M_{\phi\phi}$2.69±.88; $M_{r\theta}$−3.01±.78; $M_{r\phi}$2.81±1.57; $M_{\theta\phi}$−0.62±.43. Principal Axes: T 4.67,Plg27°,Azm243°; N 0.61,Plg14°,Azm145°; P −5.27,Plg59°,Azm31°. Best double couple: $M_0$5.0×10^{16}Nm, NP1: ϕ_S4°,δ22°,λ−49°. NP2:ϕ_S141°,δ74°,λ−105°.											
ISC	**VII**	**04**	**20**	**44**	**09.4±.55**	**23.05N±.033**	**120.75E±.057**	**3**			**19**	**0-2**
TAP	VII	04	20	44	08.7	23.06N	120.80E	3	3.6L			¶97vii0617
TAP	Felt I=II J											
TAP	**VII**	**04**	**21**	**20**	**51.8**	**24.10N**	**121.64E**	**28**	**3.1L**		**180-0**	
												¶97vii0619
ISC	**VII**	**05**	**23**	**57**	**10±1.5**	**23.77N±.053**	**121.5E±.11**	**4±12**			**14**	**0-2**
TAP	VII	05	23	57	11.1	23.78N	121.46E	13	3.6L			¶97vii0810
TAP	Felt											
ISC	**VII**	**06**	**01**	**56**	**37±1.2**	**24.39N±.074**	**121.7E±.15**	**12±12**			**7**	**0-1**
TAP	VII	06	01	56	36.6	24.41N	121.70E	11	2.6L			¶97vii0823
TAP	Felt I=IV J											
TAP	**VII**	**08**	**02**	**53**	**39.8**	**23.05N**	**121.38E**	**16**	**3.1L**		**180-0**	
												¶97vii1131
ISC	**VII**	**08**	**09**	**10**	**49±2.1**	**24.3N±.11**	**121.8E±.22**	**8±15**			**6**	**0-1**
TAP	VII	08	09	10	48.2	24.34N	121.81E	12	2.7L			¶97vii1165
TAP	Felt I=III J											
ISC	**VII**	**08**	**14**	**21**	**41.3±.81**	**24.40N±.046**	**121.7E±.14**	**14±10**			**12**	**0-2**
TAP	VII	08	14	21	40.9	24.43N	121.65E	19	3.0L			¶97vii1200
TAP	Felt I=III J											
ISC	**VII**	**08**	**19**	**12**	**40±1.3**	**24.35N±.060**	**121.8E±.16**	**10**			**9**	**0-1**
TAP	VII	08	19	12	38.9	24.37N	121.77E	10	2.7L			¶97vii1221
TAP	Felt I=III J											
ISC	**VII**	**09**	**02**	**06**	**13.2±.73**	**24.32N±.055**	**121.6E±.11**	**33±8.2**			**15**	**0-3**
BJI	VII	09	02	06	11.1	24.49N	121.55E	16	3.3L			¶97vii1275
TAP	VII	09	02	06	12.2	24.27N	121.73E	38	4.2L			
TAP	Felt I=III J, I Hwalien											
TAP	**VII**	**09**	**12**	**31**	**48.3**	**24.15N**	**120.96E**	**15**	**3.5L**		**180-0**	
												¶97vii1337
TAP	**VII**	**09**	**14**	**27**	**15.1**	**24.75N**	**121.72E**	**80**	**3.0L**		**180-0**	
												¶97vii1353

TAP VII 09 21 12 08.8 23.57N 121.85E 15 3.8L 180-0 ¶97vii1397
TAP VII 10 05 04 33.8 24.57N 121.76E 65 3.6L 180-0 ¶97vii1454
ISC VII 11 00 43 44.2±.82 **23.06N**±.038 **120.8E**±.11 **4 12 0-2 ¶97vii1599**
TAP VII 11 00 43 43.2 23.04N 120.78E 4 3.5L
TAP Felt I=III J
ISC VII 11 22 10 31.6±.93 **23.69N**±.074 **121.4E**±.14 **12**±11 **8 0-1 ¶97vii1733**
TAP VII 11 22 10 31.4 23.70N 121.44E 12 3.1L
TAP Felt I=III J
ISC VII 11 22 27 15.0±.99 **23.68N**±.075 **121.4E**±.14 **10**±11 **8 0-1 ¶97vii1735**
TAP VII 11 22 27 14.5 23.70N 121.45E 12 3.2L
TAP Felt I=III J
TAP VII 12 10 59 53.6 23.23N 120.61E 3 1.4L ¶97vii1804
TAP Felt I=III J
TAP VII 12 15 09 51.1 23.40N 121.67E 27 3.5L 180-0 ¶97vii1829
TAP VII 12 16 45 26.7 24.90N 121.81E 117 3.3L 180-0 ¶97vii1840
ISC VII 13 03 46 57±2.2 **23.1N**±.11 **120.9E**±.30 **4 6 0-2 ¶97vii1921**
TAP VII 13 03 46 55.0 23.04N 120.77E 4 3.0L
TAP Felt I=II J
TAP VII 13 15 24 44.5 24.17N 121.55E 27 3.1L 180-0 ¶97vii1990
TAP VII 14 13 12 47.9 24.67N 121.86E 66 3.0L 180-0 ¶97vii2133
ISC VII 16 17 25 20.8±.49 **24.41N**±.040 **121.82E**±.052 **13 17 0-2 ¶97vii2474**
TAP VII 16 17 25 19.7 24.42N 121.80E 13 3.6L
JMA VII 16 17 25 22.3±.8 25.13N±.05 122.27E±.06 0 2.8
TAP Felt I=IV J
TAP VII 16 19 41 27.9 22.90N 120.65E 6 3.3L 180-0 ¶97vii2485
TAP VII 17 17 19 00.4 25.10N 121.55E 186 3.3L 180-0 ¶97vii2618
TAP VII 17 19 24 25.3 24.01N 121.66E 31 3.6L 180-0 ¶97vii2633
TAP VII 19 21 17 31.6 24.13N 120.94E 19 3.4L 180-0 ¶97vii2957
TAP VII 19 23 43 49.0 23.02N 120.56E 12 3.7L 200-0 ¶97vii2973
TAP VII 20 22 21 39.2 23.04N 121.54E 41 3.5L 180-0 ¶97vii3153
TAP VII 22 01 36 23.6 22.58N 120.93E 3 3.1L 180-0 ¶97vii3312
TAP VII 22 06 13 43.2 22.45N 120.63E 16 3.1L 200-0 ¶97vii3333
TAP VII 23 08 06 29.8 24.43N 121.90E 20 3.1L 180-0 ¶97vii3501
ISC VII 25 02 49 51.9±.55 **23.03N**±.034 **120.77E**±.059 **4 16 0-2 ¶97vii3760**
TAP VII 25 02 49 51.2 23.03N 120.80E 4 3.7L
TAP Felt I=III J
ISC VII 25 09 35 18.5±.85 **23.89N**±.061 **121.5E**±.10 **21**±9.0 **13 0-2 ¶97vii3812**
TAP VII 25 09 35 18.6 23.95N 121.46E 20 3.6L
TAP Felt I=III
TAP VII 25 11 41 49.7 23.92N 121.73E 43 3.7L 180-0 ¶97vii3821
ISC VII 27 13 00 57.4±.97 **23.96N**±.063 **121.5E**±.11 **22**±10 **10 0-1 ¶97vii4111**
TAP VII 27 13 00 57.4 23.96N 121.48E 17 2.9L
TAP Felt I=II J
TAP VII 28 07 04 17.7 24.81N 121.91E 10 3.2L 180-0 ¶97vii4224
ISC VII 29 00 01 24±1.3 **24.30N**±.043 **121.8E**±.12 **2**±9.2 **19 0-3 ¶97vii4348**
TAP VII 29 00 01 23.2 24.31N 121.81E 11 4.0L
TAP Felt I=III J
TAP VII 29 00 21 36.6 24.45N 121.73E 6 2.0L ¶97vii4350
TAP Felt I=III J
ISC VII 29 00 50 22.6±.57 **24.29N**±.040 **121.85E**±.052 **10 21 0-2 ¶97vii4353**
JMA VII 29 00 50 19.8±.5 25.28N±.04 122.04E±.04 0 3.1
TAP VII 29 00 50 22.4 24.31N 121.81E 10 3.6L
TAP Felt I=III J
ISC VII 29 02 20 55.5±.65 **24.26N**±.036 **121.49E**±.060 **2**±10 **17 0-2 ¶97vii4366**
TAP VII 29 02 20 54.3 24.26N 121.48E 5 3.3L
TAP Felt I=II J
TAP VII 29 17 17 23.3 24.06N 121.49E 61 3.4L 180-0 ¶97vii4454
TAP VII 30 05 56 05.8 24.88N 121.95E 98 3.2L 180-0 ¶97vii4539
TAP VII 30 06 26 59.5 24.33N 121.82E 9 3.0L 180-0 ¶97vii4543
ISC VII 30 06 34 38±1.7 **24.26N**±.043 **122.0E**±.16 **10 19 0-2 ¶97vii4546**
TAP VII 30 06 34 38.8 24.31N 121.83E 10 3.8L
TAP Felt I=III J
ISC VII 30 08 16 31±2.2 **24.28N**±.087 **121.8E**±.21 **9**±17 **6 0-1 ¶97vii4552**
TAP VII 30 08 16 30.2 24.31N 121.80E 13 2.8L
TAP Felt I=II J
ISC VII 30 08 20 59±2.2 **24.27N**±.082 **121.8E**±.21 **8**±15 **7 0-1 ¶97vii4556**
TAP VII 30 08 20 58.5 24.31N 121.80E 14 3.0L
TAP Felt I=II J
TAP VII 30 10 32 13.6 23.86N 121.75E 9 4.0L 3-3 ¶97vii4567
BJI VII 30 10 32 14.5 24.05N 121.66E 17 3.3L
ISC VIII 01 14 28 07±1.2 **23.27N**±.051 **121.6E**±.10 **19**±12 **20 0-3 ¶97viii0077**
BJI VIII 01 14 28 05.4 23.60N 121.50E 15 3.3L
TAP VIII 01 14 28 07.2 23.34N 121.53E 25 4.1L
TAP Felt I=III J Chengkung, I Yuli
TAP VIII 02 20 18 15.0 24.12N 120.94E 13 3.3L 180-0 ¶97viii0254
TAP VIII 02 20 46 09.7 23.85N 121.81E 41 3.3L 180-0 ¶97viii0257
TAP VIII 03 08 04 06.0 23.83N 121.76E 5 3.2L 180-0 ¶97viii0330
TAP VIII 03 08 51 48.2 23.32N 121.63E 31 3.5L 180-0 ¶97viii0339
ISC VIII 03 11 55 19.8±.75 **23.02N**±.044 **121.42E**±.083 **22 16 0-2 ¶97viii0359**
TAP VIII 03 11 55 18.6 23.00N 121.48E 22 3.6L
TAP Felt I=III J Chengkung
ISC VIII 03 13 02 56.5±.95 **23.83N**±.050 **121.7E**±.11 **36**±17 **21 0-3 ¶97viii0364**
BJI VIII 03 13 02 51.2 23.88N 121.82E 14 3.5L
TAP VIII 03 13 02 55.5 23.79N 121.71E 33 4.4L
TAP Felt I=I J Hwalien
TAP VIII 04 02 32 54.3 24.70N 121.68E 48 3.1L 180-0 ¶97viii0446
ISC VIII 04 12 59 34±1.3 **24.15N**±.028 **121.18E**±.046 **14**±9.8 **4.1b 50 0-168 ¶97viii0508**
TAP VIII 04 12 59 32.8 24.19N 121.15E 8 4.4L
BJI VIII 04 12 59 35.1 24.35N 121.36E 29 4.4L,4.3b
NEIC VIII 04 12 59 36.2 24.10N 121.33E 33 4.3b
EIDC VIII 04 12 59 40.8 24.2N 121.3E 56 3.5b,3.9L
TAP Felt I=III J Sun Moon Lake, I Hwalien
BJI Ms4.3
NEIC Less reliable solution.
ISC VIII 04 21 34 16.7±.81 **23.72N**±.063 **121.42E**±.097 **11**±9.4 **14 0-1 ¶97viii0555**
TAP VIII 04 21 34 15.9 23.73N 121.40E 18 3.1L
TAP Felt I=III J
ISC VIII 05 08 41 14.6±.53 **23.03N**±.036 **121.47E**±.074 **40**±6.3 **4.0b 40 0-84 ¶97viii0642**
BJI VIII 05 08 41 11.8 22.81N 121.37E 19 4.1L,4.3b
TAP VIII 05 08 41 13.5 23.02N 121.48E 20 4.6L
EIDC VIII 05 08 41 25.7 23.0N 121.4E 122 3.4b
NEIC VIII 05 08 41 26.4 22.96N 121.42E 150 4.1b
BJI Ms4.2
TAP Felt I=III J Chengkung, I Yuli
NEIC Less reliable solution.
TAP VIII 05 12 10 46.5 22.98N 120.48E 22 3.2L 180-0 ¶97viii0666
TAP VIII 08 05 17 19.4 24.05N 121.62E 31 3.2L 180-0 ¶97viii1060
ISC VIII 08 18 27 39.3±.96 **23.23N**±.043 **121.34E**±.074 **5**±7.8 **18 0-3 ¶97viii1148**
TAP VIII 08 18 27 38.6 23.24N 121.35E 11 3.8L
TAP Felt I=III J Chengkung
TAP VIII 09 22 08 38.6 23.91N 121.57E 27 3.0L 180-0 ¶97viii1313
TAP VIII 10 06 36 49.8 24.46N 121.93E 11 3.1L 180-0 ¶97viii1363
TAP VIII 10 11 41 13.3 24.80N 121.86E 82 3.8L 180-0 ¶97viii1387
TAP VIII 10 12 11 00.3 24.06N 121.46E 56 3.0L 180-0 ¶97viii1390
ISC VIII 11 04 48 59.1±.38 **23.02N**±.028 **121.00E**±.045 **3 3.7b 32 0-84 ¶97viii1504**
TAP VIII 11 04 48 58.2 23.06N 121.00E 3 4.2L
BJI VIII 11 04 49 00.0 23.21N 121.09E 13 4.0L,3.6s
EIDC VIII 11 04 49 00.7 22.9N 121.0E 0 3.7b
NEIC VIII 11 04 49 03.3 22.95N 121.10E 33
TAP Felt I=II J
NEIC Single network solution.
TAP VIII 11 11 02 22.9 23.27N 121.63E 28 3.6L 180-0 ¶97viii1549
ISC VIII 11 14 22 56.9±.65 **24.04N**±.043 **121.56E**±.081 **20**±6.9 **20 0-3 ¶97viii1575**
TAP VIII 11 14 22 56.4 24.08N 121.51E 17 3.8L
TAP Felt I=III J Hwalien, II Chiawan, Tachien
ISC VIII 12 06 04 38.2±.61 **23.19N**±.035 **120.71E**±.050 **2**±8.6 **18 0-2 ¶97viii1688**
TAP VIII 12 06 04 37.3 23.19N 120.74E 5 3.7L
TAP Felt I=III J, I Chiayi
ISC VIII 12 09 14 20±3.4 **24.39N**±.063 **121.9E**±.37 **11 9 0-1 ¶97viii1711**
TAP VIII 12 09 14 20.3 24.44N 121.86E 11 3.0L
TAP Felt I=III J
ISC VIII 12 09 21 00±8.3 **24.4N**±.14 **122.0E**±.74 **7**±22 **7 0-1 ¶97viii1712**
TAP VIII 12 09 21 00.0 24.42N 121.87E 13 2.7L
TAP Felt I=III J
ISC VIII 12 09 22 10±6.7 **24.4N**±.13 **121.9E**±.61 **3**±22 **7 0-1 ¶97viii1713**
TAP VIII 12 09 22 09.5 24.41N 121.89E 11 3.0L
TAP Felt I=II J
ISC VIII 12 11 09 28.8±.57 **22.90N**±.036 **120.65E**±.046 **1**±7.0 **22 0-3 ¶97viii1729**
BJI VIII 12 11 09 05.1 21.66N 122.30E 21 3.8L
TAP VIII 12 11 09 28.2 22.90N 120.62E 7 4.1L
TAP Felt I=II J
TAP VIII 12 22 27 46.9 24.56N 121.83E 53 3.2L 180-0 ¶97viii1812
ISC VIII 14 14 50 29±1.4 **24.46N**±.093 **121.7E**±.15 **6 4 0-1 ¶97viii2081**
TAP VIII 14 14 50 28.8 24.46N 121.72E 6 1.8L
ISC Poorly determined
TAP Felt I=III J
TAP VIII 14 23 40 29.2 23.69N 120.92E 4 3.2L 180-0 ¶97viii2130
ISC VIII 15 01 07 58±2.8 **23.62N**±.077 **121.99E**±.092 **31**±25 **3.9b 14 1-69 ¶97viii2140**
BJI VIII 15 01 07 54.6 23.68N 122.08E 12 3.4L,4.4b
TAP VIII 15 01 07 58.0 23.75N 121.94E 13 4.2L
JMA VIII 15 01 07 59.3±.4 23.79N±.04 122.08E±.03 71
EIDC VIII 15 01 08 00.8 23.4N 124.1E 0 4.0b,3.8L
TAP VIII 15 10 33 00.6 24.71N 121.76E 12 3.0L 180-0 ¶97viii2201
ISC VIII 15 10 49 16.0±.82 **24.69N**±.046 **121.76E**±.079 **2**±11 **13 0-1 ¶97viii2205**
TAP VIII 15 10 49 14.8 24.70N 121.76E 11 3.3L
TAP Felt I=III J
TAP VIII 15 16 33 18.9 23.85N 121.65E 38 3.5L 180-0 ¶97viii2239
ISC VIII 16 06 31 14±2.1 **23.75N**±.079 **121.9E**±.18 **24**±9.8 **14 0-2 ¶97viii2327**
TAP VIII 16 06 31 14.5 23.79N 121.77E 32 3.9L
TAP Felt I=III J, II Chiawan, I Hwalien
TAP VIII 16 14 41 19.8 24.79N 121.96E 6 3.4L 180-0 ¶97viii2385
TAP VIII 16 22 26 05.1 23.79N 121.77E 34 3.1L 180-0 ¶97viii2426
ISC VIII 17 01 55 44.9±.48 **23.51N**±.036 **120.92E**±.053 **6 18 0-2 ¶97viii2454**
TAP VIII 17 01 55 43.6 23.49N 120.92E 6 4.1L
TAP Felt I=III J Alishan, I Chiayi
TAP VIII 17 10 06 56.9 23.53N 121.82E 22 3.5L 180-0 ¶97viii2520
TAP VIII 17 17 22 10.1 23.16N 121.33E 19 3.1L 180-0 ¶97viii2565
TAP VIII 18 13 09 37.9 24.79N 121.99E 6 3.1L 180-0 ¶97viii2682
ISC VIII 18 13 54 04±5.5 **24.4N**±.14 **121.9E**±.49 **15 4 0-1 ¶97viii2685**
TAP VIII 18 13 54 04.4 24.41N 121.89E 15 2.3L
ISC Poorly determined
TAP Felt I=II J
ISC VIII 20 07 03 41.2±.42 **24.23N**±.044 **120.90E**±.067 **53**±5.6 **3.8b 26 0-78 ¶97viii2924**
EIDC VIII 20 07 03 35.9 24.0N 120.6E 0 3.7b
BJI VIII 20 07 03 38.0 23.93N 120.71E 26 3.8L
NEIC VIII 20 07 03 38.8 23.96N 120.59E 33 3.7b
TAP VIII 20 07 03 41.0 24.25N 120.94E 37 4.4L
NEIC Poor solution.
TAP Felt I=III J Taichen, II Taichung, I Sun Moon Lake, Hwalien

Agency	mo	d	Origin Time h	m	s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
TAP	**VIII**	**20**	**09**	**06**	**49.9**	**22.95N**	**120.67E**	**16**	**3.6L**		**180-0**
											¶97viii2932
TAP	**VIII**	**20**	**09**	**06**	**58.4**	**22.94N**	**120.69E**	**8**	**3.9L**		**180-0**
											¶97viii2933
TAP	**VIII**	**20**	**09**	**08**	**18.9**	**22.95N**	**120.69E**	**10**	**4.1L**		**180-0**
											¶97viii2934
ISC	**VIII**	**20**	**12**	**21**	**39.5**±.99	**24.41N**±.064	**121.7E**±.14	**61**		**14**	**0-2**
TAP	VIII	20	12	21	39.0	24.38N	121.73E	61	3.9L		¶97viii2959
TAP	Felt I=III J										
TAP	**VIII**	**20**	**14**	**47**	**14.5**	**24.40N**	**121.81E**	**12**	**2.5L**		**¶97viii2976**
TAP	Felt I=II J										
TAP	**VIII**	**20**	**15**	**30**	**15.9**	**24.35N**	**121.74E**	**54**	**3.5L**		**180-0**
											¶97viii2982
TAP	**VIII**	**21**	**00**	**21**	**15.3**	**24.19N**	**121.95E**	**26**	**3.0L**		**180-0**
											¶97viii3037
TAP	**VIII**	**21**	**10**	**04**	**48.3**	**24.35N**	**121.94E**	**39**	**3.1L**		**180-0**
											¶97viii3083
TAP	**VIII**	**22**	**17**	**34**	**56.2**	**23.82N**	**121.73E**	**18**	**3.2L**		**180-0**
											¶97viii3259
TAP	**VIII**	**23**	**05**	**44**	**36.3**	**24.80N**	**121.97E**	**1**	**3.3L**		**180-0**
											¶97viii3345
ISC	**VIII**	**23**	**06**	**05**	**49.8**±.97	**24.65N**±.052	**121.8E**±.10	**2**±16		**9**	**0-1**
TAP	VIII	23	06	05	48.6	24.66N	121.83E	11	2.8L		¶97viii3348
TAP	Felt I=II J										
ISC	**VIII**	**23**	**06**	**06**	**16**±1.4	**24.65N**±.062	**121.8E**±.16	**10**		**8**	**0-1**
TAP	VIII	23	06	06	15.0	24.66N	121.86E	10	3.1L		¶97viii3349
TAP	Felt I=III J										
ISC	**VIII**	**23**	**06**	**34**	**44**±1.1	**23.17N**±.053	**121.5E**±.10	**21**±11		**14**	**0-2**
TAP	VIII	23	06	34	45.1	23.21N	121.40E	18	3.6L		¶97viii3355
TAP	Felt I=I J Yuli										
TAP	**VIII**	**23**	**08**	**32**	**58.0**	**24.21N**	**121.14E**	**13**	**3.5L**		**180-0**
											¶97viii3369
ISC	**VIII**	**23**	**10**	**37**	**15**±1.2	**24.66N**±.053	**121.8E**±.13	**9**		**9**	**0-1**
TAP	VIII	23	10	37	14.7	24.66N	121.83E	9	2.8L		¶97viii3390
TAP	Felt I=II J										
TAP	**VIII**	**23**	**14**	**35**	**25.4**	**24.80N**	**121.99E**	**3**	**3.2L**		**200-0**
											¶97viii3414
TAP	**VIII**	**23**	**14**	**55**	**05.3**	**24.66N**	**121.83E**	**11**	**3.1L**		**180-0**
											¶97viii3417
ISC	**VIII**	**24**	**04**	**27**	**04**±1.2	**24.74N**±.073	**121.8E**±.15	**9**±11		**13**	**0-1**
TAP	VIII	24	04	27	02.7	24.72N	121.77E	12	3.5L		¶97viii3480
TAP	Felt I=III J										
ISC	**VIII**	**24**	**07**	**19**	**46.9**±.61	**24.37N**±.054	**121.93E**±.058	**24**		**13**	**0-2**
JMA	VIII	24	07	19	46.0±.4	25.06N±.05	122.11E±.03	24	2.8		¶97viii3492
TAP	VIII	24	07	19	46.4	24.38N	121.93E	23	3.1L		
TAP	Felt I=II J										
TAP	**VIII**	**25**	**03**	**02**	**00.7**	**22.06N**	**120.84E**	**38**	**3.3L**		**180-0**
											¶97viii3631
TAP	**VIII**	**25**	**03**	**29**	**01.8**	**22.95N**	**120.68E**	**14**	**3.1L**		**180-0**
											¶97viii3636
TAP	**VIII**	**26**	**16**	**00**	**00.0**	**24.09N**	**121.56E**	**97**	**3.0L**		**180-0**
											¶97viii3872
TAP	**VIII**	**27**	**09**	**31**	**56.4**	**25.66N**	**121.76E**	**217**	**3.5L**		**180-0**
											¶97viii3966
TAP	**VIII**	**27**	**17**	**21**	**05.6**	**23.51N**	**121.62E**	**26**	**3.3L**		**180-0**
											¶97viii4014
TAP	**VIII**	**28**	**22**	**58**	**32.5**	**23.95N**	**121.99E**	**42**	**3.4L**		**180-0**
											¶97viii4195
ISC	**VIII**	**29**	**02**	**59**	**49.7**±.54	**23.06N**±.044	**120.56E**±.069	**27**±7.9		**16**	**0-3**
TAP	VIII	29	02	59	49.1	23.05N	120.61E	20	4.2L		¶97viii4227
BJI	VIII	29	03	00	17.4	24.71N	119.71E	29	3.3L		
TAP	Felt I=II J Tainan, I Hengchun, Chiayi										
TAP	**VIII**	**29**	**16**	**09**	**10.6**	**24.07N**	**121.59E**	**29**	**3.2L**		**180-0**
											¶97viii4344
TAP	**VIII**	**29**	**21**	**44**	**07.9**	**23.84N**	**120.84E**	**16**	**3.4L**		**180-0**
											¶97viii4382
TAP	**VIII**	**31**	**05**	**04**	**44.1**	**22.05N**	**120.10E**	**62**	**3.5L**		**180-0**
											¶97viii4587
TAP	**VIII**	**31**	**22**	**33**	**37.0**	**24.39N**	**121.74E**	**11**	**2.0L**		**¶97viii4720**
TAP	Felt I=III J										
ISC	**IX**	**02**	**00**	**25**	**12.0**±.59	**22.88N**±.047	**120.63E**±.073	**24**±9.3		**13**	**0-1**
TAP	IX	02	00	25	11.4	22.86N	120.69E	11	3.3L		¶97ix0188
TAP	Felt I=III J										
TAP	**IX**	**02**	**10**	**49**	**39.7**	**24.01N**	**121.70E**	**46**	**3.2L**		**180-0**
											¶97ix0262
ISC	**IX**	**02**	**21**	**34**	**23.1**±.93	**23.88N**±.070	**121.48E**±.098	**18**±13		**11**	**0-2**
TAP	IX	02	21	34	22.9	23.89N	121.45E	18	3.4L		¶97ix0332
TAP	Felt I=II J										
TAP	**IX**	**04**	**17**	**53**	**31.8**	**24.06N**	**120.10E**	**11**	**3.1L**		**180-0**
											¶97ix0617
ISC	**IX**	**04**	**18**	**00**	**39**±1.1	**24.25N**±.063	**121.7E**±.13	**22**±15		**12**	**0-1**
TAP	IX	04	18	00	39.9	24.30N	121.69E	20	3.3L		¶97ix0618
TAP	Felt I=II J										
TAP	**IX**	**05**	**02**	**41**	**39.9**	**23.75N**	**121.71E**	**33**	**3.3L**		**180-0**
											¶97ix0672
ISC	**IX**	**05**	**16**	**49**	**29**±1.5	**24.31N**±.062	**121.9E**±.16	**11**		**11**	**0-1**
TAP	IX	05	16	49	28.4	24.36N	121.77E	11	3.3L		¶97ix0771
TAP	Felt I=III J										
ISC	**IX**	**06**	**01**	**45**	**09.9**±.83	**23.90N**±.052	**120.70E**±.072	**12**±9.1		**11**	**0-2**
TAP	IX	06	01	45	09.5	23.89N	120.72E	12	3.4L		¶97ix0837
TAP	Felt I=III J										
TAP	**IX**	**06**	**01**	**47**	**11.6**	**23.89N**	**120.72E**	**12**	**3.0L**		**180-0**
											¶97ix0838
TAP	**IX**	**06**	**14**	**59**	**00.8**	**23.73N**	**121.77E**	**37**	**3.7L**		**180-0**
											¶97ix0932
TAP	**IX**	**06**	**20**	**08**	**51.4**	**23.17N**	**121.62E**	**29**	**3.3L**		**180-0**
											¶97ix0963
ISC	**IX**	**06**	**21**	**14**	**45.2**±.70	**23.56N**±.045	**120.64E**±.048	**10**±7.1		**16**	**0-2**
TAP	IX	06	21	14	44.7	23.54N	120.65E	10	3.6L		¶97ix0968
TAP	Felt I=II J Chiayi, I Alishan										
ISC	**IX**	**07**	**13**	**46**	**33**±1.2	**23.77N**±.075	**121.5E**±.11	**12**		**9**	**0-1**
TAP	IX	07	13	46	32.7	23.81N	121.45E	12	3.1L		¶97ix1075
TAP	Felt I=II J Chiawan										
TAP	**IX**	**07**	**22**	**58**	**42.6**	**23.75N**	**121.65E**	**33**	**3.2L**		**180-0**
											¶97ix1137
TAP	**IX**	**08**	**00**	**54**	**25.2**	**24.36N**	**121.69E**	**11**	**2.5L**		**¶97ix1147**
TAP	Felt I=III J										
ISC	**IX**	**08**	**02**	**02**	**42.3**±.87	**24.01N**±.050	**121.49E**±.082	**12**±9.3		**13**	**0-2**
TAP	IX	08	02	02	41.8	24.00N	121.46E	11	3.9L		¶97ix1155
TAP	Felt I=II										
TAP	**IX**	**08**	**09**	**01**	**06.2**	**23.21N**	**121.45E**	**17**	**3.6L**		**180-0**
											¶97ix1199
TAP	**IX**	**08**	**14**	**22**	**28.3**	**23.16N**	**121.78E**	**25**	**3.2L**		**180-0**
											¶97ix1232
ISC	**IX**	**08**	**16**	**17**	**08.0**±.52	**24.04N**±.033	**121.79E**±.067	**44**±6.4	**4.0b**	**44**	**0-83**
EIDC	IX	08	16	17	04.1	24.0N	121.8E	0	3.8b,4.0L		¶97ix1245
NEIC	IX	08	16	17	06.8	23.98N	121.85E	33	4.2b		
TAP	IX	08	16	17	07.5	24.08N	121.69E	11	4.7L		
BJI	IX	08	16	17	09.8	24.42N	121.34E	5	4.1L,4.3b		
NEIC	Less reliable solution.										
TAP	Felt I=III J, II Hwalien, I Tachien										
BJI	Ms3.8										
ISC	**IX**	**09**	**00**	**53**	**17**±3.3	**24.5N**±.13	**121.8E**±.39	**16**		**5**	**0-1**
TAP	IX	09	00	53	15.9	24.43N	121.80E	16	2.9L		¶97ix1305
TAP	Felt I=III J										
TAP	**IX**	**09**	**11**	**05**	**53.8**	**24.81N**	**121.95E**	**72**	**3.6L**		**180-0**
											¶97ix1368
ISC	**IX**	**10**	**12**	**28**	**50.7**±.78	**23.20N**±.038	**120.71E**±.063	**4**±9.7		**14**	**0-2**
TAP	IX	10	12	28	50.6	23.15N	120.74E	7	3.5L		¶97ix1522
TAP	Felt I=III J										
TAP	**IX**	**10**	**19**	**14**	**33.5**	**23.14N**	**121.37E**	**21**	**3.1L**		**180-0**
											¶97ix1566
TAP	**IX**	**10**	**20**	**39**	**59.4**	**24.21N**	**121.72E**	**10**	**3.1L**		**180-0**
											¶97ix1576
ISC	**IX**	**11**	**09**	**28**	**50.5**±.88	**24.27N**±.041	**121.94E**±.069	**24**±7.1	**3.9b**	**33**	**0-168**
BJI	IX	11	09	28	48.4	24.09N	121.88E	150	4.9b		¶97ix1657
TAP	IX	11	09	28	51.0	24.28N	121.77E	9	4.5L		
NEIC	IX	11	09	29	03.9	24.23N	121.77E	150			
EIDC	IX	11	09	29	06.9	24.2N	121.7E	163	3.5b		
TAP	Felt I=IV J										
NEIC	Single network solution.										
ISC	**IX**	**11**	**09**	**37**	**27**±1.8	**24.2N**±.11	**121.8E**±.20	**24**±15		**6**	**0-1**
TAP	IX	11	09	37	27.1	24.28N	121.76E	12	3.2L		¶97ix1658
TAP	Felt I=III J										
TAP	**IX**	**11**	**17**	**12**	**27.2**	**24.65N**	**121.60E**	**53**	**3.7L**		**180-0**
											¶97ix1712
TAP	**IX**	**12**	**17**	**20**	**51.8**	**23.81N**	**121.76E**	**12**	**3.8L**		**180-0**
											¶97ix1852
TAP	**IX**	**12**	**23**	**07**	**41.9**	**23.17N**	**121.36E**	**20**	**3.2L**		**180-0**
											¶97ix1884
TAP	**IX**	**13**	**06**	**45**	**25.7**	**24.63N**	**121.66E**	**37**	**3.2L**		**180-0**
											¶97ix1938
ISC	**IX**	**13**	**07**	**11**	**01.9**±.90	**23.29N**±.047	**120.18E**±.066	**6**±8.4		**15**	**0-2**
TAP	IX	13	07	11	01.6	23.28N	120.17E	13	3.8L		¶97ix1944
TAP	Felt I=II J										
TAP	**IX**	**13**	**14**	**16**	**11.3**	**22.68N**	**120.97E**	**5**	**3.2L**		**180-0**
											¶97ix1984
TAP	**IX**	**13**	**15**	**48**	**57.0**	**24.70N**	**121.61E**	**58**	**3.0L**		**180-0**
											¶97ix1991
TAP	**IX**	**14**	**00**	**52**	**22.3**	**23.21N**	**120.04E**	**13**	**3.0L**		**180-0**
											¶97ix2054
TAP	**IX**	**14**	**08**	**11**	**02.6**	**24.61N**	**121.78E**	**69**	**3.0L**		**180-0**
											¶97ix2092
TAP	**IX**	**14**	**10**	**08**	**58.3**	**24.41N**	**121.84E**	**15**	**2.4L**		**¶97ix2104**
TAP	Felt I=III J										
ISC	**IX**	**14**	**11**	**51**	**20**±1.4	**23.05N**±.091	**120.0E**±.11	**19**±13		**12**	**0-2**
TAP	IX	14	11	51	19.3	22.99N	120.04E	16	3.3L		¶97ix2117
TAP	Felt I=II J Tainan										
ISC	**IX**	**15**	**17**	**22**	**44**±1.3	**24.82N**±.057	**122.0E**±.11	**4**		**11**	**0-2**
TAP	IX	15	17	22	42.6	24.83N	121.97E	4	3.4L		¶97ix2266
TAP	Felt I=III J										
ISC	**IX**	**15**	**22**	**26**	**34.9**±.50	**23.95N**±.045	**121.59E**±.049	**8**		**18**	**0-2**
TAP	IX	15	22	26	35.3	24.03N	121.54E	8	3.9L		¶97ix2291
JMA	IX	15	22	26	36.5±.2	23.95N±.05	121.74E±.02	128±5			
TAP	Felt I=IV J Hwalien										
TAP	**IX**	**16**	**05**	**42**	**22.5**	**23.46N**	**121.66E**	**26**	**4.1L**		**3-3**
BJI	IX	16	05	42	27.4	23.83N	121.17E	10	3.3L		¶97ix2338
TAP	**IX**	**16**	**05**	**52**	**07.1**	**23.48N**	**121.65E**	**26**	**3.1L**		**200-0**
											¶97ix2339
TAP	**IX**	**16**	**07**	**23**	**45.3**	**23.47N**	**121.65E**	**26**	**3.1L**		**180-0**
											¶97ix2347
TAP	**IX**	**16**	**12**	**56**	**26.8**	**23.10N**	**121.43E**	**21**	**3.0L**		**180-0**
											¶97ix2385
TAP	**IX**	**16**	**18**	**56**	**13.1**	**23.21N**	**120.01E**	**6**	**3.0L**		**180-0**
											¶97ix2418
ISC	**IX**	**17**	**14**	**07**	**37**±1.1	**24.82N**±.042	**121.97E**±.097	**6**		**17**	**0-2**
TAP	IX	17	14	07	36.2	24.83N	121.95E	6	3.8L		¶97ix2517
TAP	Felt I=III J										
ISC	**IX**	**18**	**00**	**44**	**34**±1.9	**22.2N**±.12	**120.6E**±.10	**36**±32		**13**	**0-2**
TAP	IX	18	00	44	34.0	22.27N	120.66E	31	3.8L		¶97ix2586
TAP	Felt I=II J Hengchun										
ISC	**IX**	**18**	**19**	**26**	**12.2**±.89	**23.44N**±.057	**121.37E**±.081	**8**		**14**	**0-2**
TAP	IX	18	19	26	11.3	23.47N	121.32E	8	3.4L		¶97ix2702
TAP	Felt I=IV J										
BJI	**IX**	**19**	**13**	**56**	**21.7**	**23.24N**	**120.95E**	**31**	**3.5L**		**¶97ix2797**
ISC	**IX**	**21**	**06**	**52**	**11**±1.0	**24.37N**±.059	**121.8E**±.12	**23**±13		**14**	**0-2**
TAP	IX	21	06	52	10.8	24.41N	121.68E	27	3.5L		¶97ix3052
TAP	Felt I=II J										
ISC	**IX**	**21**	**20**	**53**	**47**±3.1	**24.5N**±.12	**122.0E**±.27	**10**		**5**	**1-1**
TAP	IX	21	20	53	46.7	24.45N	121.91E	10	2.8L		¶97ix3161
TAP	Felt I=II J										
TAP	**IX**	**24**	**23**	**19**	**43.6**	**23.05N**	**121.28E**	**14**	**3.0L**		**180-0**
											¶97ix3649
TAP	**IX**	**25**	**05**	**04**	**35.8**	**23.65N**	**121.64E**	**29**	**3.2L**		**180-0**
											¶97ix3680
TAP	**IX**	**26**	**03**	**48**	**32.9**	**24.79N**	**121.48E**	**19**	**3.1L**		**180-0**
											¶97ix3864
TAP	**IX**	**27**	**18**	**32**	**21.1**	**24.30N**	**121.93E**	**24**	**3.4L**		**180-0**
											¶97ix4431
TAP	**IX**	**27**	**18**	**32**	**44.2**	**24.32N**	**121.96E**	**36**	**3.1L**		**180-0**
											¶97ix4433
TAP	**IX**	**28**	**02**	**54**	**07.9**	**23.83N**	**121.71E**	**41**	**3.2L**		**180-0**
											¶97ix4519
ISC	**IX**	**28**	**07**	**54**	**25.0**±.36	**24.60N**±.031	**121.86E**±.061	**80**±3.6	**3.9b**	**57**	**0-168**
NEIC	IX	28	07	54	21.7	24.53N	121.72E	50	4.4b		¶97ix4581
BJI	IX	28	07	54	23.4	24.62N	121.86E	52	4.3L,4.6b		
TAP	IX	28	07	54	26.2	24.61N	121.78E	69	5.0L		
EIDC	IX	28	07	54	30.0	24.7N	122.1E	106	3.6b		
TAP	Felt I=III J, II Ilan, Hwalien, Hsinchu, I Mucha, Santiao Chiao, Taipei, Kuangyinshan, Tachien										

TAP IX 28 12 08 48.5 24.02N 121.67E 32 3.4L 180-0
¶97ix4643
TAP IX 29 13 43 45.6 23.95N 121.83E 47 3.5L 180-0
¶97ix4957
TAP IX 29 21 05 36.1 23.53N 120.81E 15 3.2L 180-0
¶97ix5021
JMA X 01 08 14 06.0±.4 **23.62N**±.03 **121.75E**±.03 **98** **¶97x0054**
TAP X 01 08 14 04.2 23.57N 121.57E 24 3.3L
ISC X 01 18 31 44±1.3 **24.46N**±.069 **121.8E**±.16 **19** **9 0-1**
TAP X 01 18 31 42.8 24.43N 121.81E 19 2.8L **¶97x0136**
TAP Felt I=II J
ISC X 02 03 54 05±2.3 **24.64N**±.068 **121.9E**±.30 **15**±10 **7 0-1**
TAP X 02 03 54 04.7 24.64N 121.82E 12 2.6L **¶97x0198**
TAP Felt I=II J
ISC X 02 20 47 47.2±.63 **23.46N**±.031 **120.70E**±.032 **9**±5.1 **3.8b 50 0-59**
TAP X 02 20 47 45.8 23.45N 120.70E 3 4.4L **¶97x0343**
JMA X 02 20 47 46.9±.4 23.31N±.07 120.56E±.03 78 3.9
NEIC X 02 20 47 48.2 23.30N 120.92E 33 3.5b
EIDC X 02 20 47 52.2 23.4N 120.9E 50 3.5b,4.2L
BJI X 02 20 47 55.9 24.01N 120.16E 22 4.2L,4.4b
TAP Felt I=III J Alishan, Chiayi
NEIC Less reliable solution.
BJI Ms4.0
TAP X 03 05 17 56.1 24.38N 121.94E 24 3.1L 180-0
¶97x0397
TAP X 03 07 29 53.1 23.44N 120.70E 7 3.4L 180-0
¶97x0416
ISC X 04 06 25 14.0±.98 **23.89N**±.056 **120.69E**±.076 **14**±11 **10 0-1**
TAP X 04 06 25 13.6 23.88N 120.72E 12 2.8L **¶97x0595**
TAP Felt I=III J
ISC X 05 11 53 17±1.3 **24.34N**±.074 **121.8E**±.17 **13** **6 0-1**
TAP X 05 11 53 16.6 24.36N 121.72E 13 2.7L **¶97x0861**
TAP Felt I=II J
TAP X 05 14 22 25.5 24.45N 121.87E 12 2.6L ¶97x0873
TAP Felt I=II J
ISC X 05 18 28 50±1.8 **24.10N**±.054 **121.7E**±.12 **5**±13 **12 0-1**
TAP X 05 18 28 49.7 24.14N 121.63E 3 3.4L **¶97x0907**
TAP Felt I=II J
TAP X 06 13 21 49.6 24.13N 121.64E 7 3.3L 180-0
¶97x1055
ISC X 06 18 47 35±1.3 **24.33N**±.084 **121.8E**±.19 **13**±12 **8 0-1**
TAP X 06 18 47 35.0 24.35N 121.71E 11 2.5L **¶97x1102**
TAP Felt I=III J
TAP X 07 04 54 35.0 24.00N 121.62E 32 3.1L 180-0
¶97x1185
ISC X 07 17 05 58±1.1 **23.21N**±.073 **120.08E**±.084 **12** **9 0-1**
TAP X 07 17 05 57.3 23.19N 120.09E 12 2.7L **¶97x1281**
TAP Felt I=II J
ISC X 08 01 38 26±2.2 **22.79N**±.084 **120.7E**±.21 **16** **5 0-1**
TAP X 08 01 38 25.8 22.79N 120.67E 16 2.6L **¶97x1337**
TAP Felt I=II J
ISC X 08 06 47 38.8±.61 **23.03N**±.032 **120.74E**±.064 **4** 4.3b **25 0-47**
TAP X 08 06 47 38.5 23.06N 120.76E 4 4.2L **¶97x1361**
JMA X 08 06 47 42.5±.4 23.34N±.07 121.11E±.04 201
TAP Felt I=III J
ISC X 09 11 43 14±1.9 **24.44N**±.071 **121.9E**±.19 **13** **9 0-1**
TAP X 09 11 43 11.6 24.38N 121.93E 13 2.8L **¶97x1578**
TAP Felt I=II J
JMA X 09 12 00 52.3±.7 **23.33N**±.08 **121.43E**±.05 **116** **¶97x1579**
TAP X 09 12 00 47.5 22.83N 121.33E 36 3.3L
TAP X 09 13 43 36.3 24.55N 121.65E 56 3.6L 180-0
¶97x1588
TAP X 13 03 30 02.5 24.21N 121.65E 30 3.0L 180-0
¶97x2154
ISC X 14 11 04 04.0±.42 **23.97N**±.048 **121.64E**±.053 **80** **28 0-5**
TAP X 14 11 04 04.1 23.96N 121.62E 20 4.1L **¶97x2384**
JMA X 14 11 04 04.8±.3 24.02N±.04 121.68E±.02 80 3.5
BJI X 14 11 04 09.2 24.23N 121.23E 123
TAP Felt I=II J Hwalien
ISC X 15 13 21 08.0±.91 **23.66N**±.056 **120.67E**±.079 **9**±10 **9 0-1**
TAP X 15 13 21 07.7 23.63N 120.67E 8 2.7L **¶97x2644**
TAP Felt I=II J
ISC X 15 17 50 04.5±.72 **23.05N**±.033 **120.78E**±.056 **1**±9.6 **17 0-2**
TAP X 15 17 50 02.8 23.04N 120.79E 2 3.3L **¶97x2688**
TAP Felt I=II J
ISC X 15 22 28 55.7±.53 **24.07N**±.031 **121.76E**±.044 **19**±5.2 **3.8b**,3.6s **46 0-72**
EIDC X 15 22 28 54.2 24.1N 122.0E 0 3.8b,4.1L **¶97x2735**
BJI X 15 22 28 55.0 24.13N 121.76E 19 4.1L,4.2b
JMA X 15 22 28 55.2±.4 24.00N±.05 121.57E±.03 66 3.8
TAP X 15 22 28 55.7 24.13N 121.64E 8 4.3L
NEIC X 15 22 28 56.9 24.12N 121.98E 33
BJI Ms3.7
TAP Felt I=III J, II Chiawan, Hwalien
NEIC Less reliable solution.
JMA X 16 11 23 49.2±.4 **25.03N**±.05 **121.97E**±.04 **90** **3.2** **¶97x2830**
TAP X 16 11 23 49.2 24.89N 122.01E 106 3.7L
JMA X 16 22 42 53.3±.3 **24.26N**±.05 **121.66E**±.02 **90** **2.8** **¶97x2891**
TAP X 16 22 42 54.1 24.05N 121.63E 44 3.1L
ISC X 17 10 41 37±6.5 **23.3N**±.17 **120.2E**±.46 **13** **5 1-1**
TAP X 17 10 41 34.1 23.19N 120.08E 13 2.7L **¶97x2964**
TAP Felt I=II J
TAP X 17 11 15 39.0 24.80N 121.98E 6 3.0L 180-0
¶97x2972
ISC X 17 18 31 07.0±.71 **22.87N**±.050 **120.69E**±.056 **13**±8.4 **14 0-2**
TAP X 17 18 31 06.2 22.84N 120.69E 14 3.0L **¶97x3039**
TAP Felt I=II J
ISC X 18 07 47 20.6±.81 **24.18N**±.047 **121.75E**±.065 **11**±7.8 **19 0-2**
TAP X 18 07 47 20.3 24.21N 121.67E 11 3.6L **¶97x3120**
JMA X 18 07 47 20.6±.3 24.38N±.06 121.68E±.02 84 3.0
TAP Felt I=III J
ISC X 18 22 13 52.6±.65 **24.44N**±.053 **122.00E**±.059 **21**±10 **23 0-3**
JMA X 18 22 13 51.3±.5 25.09N±.04 122.17E±.04 20 3.2 **¶97x3244**
TAP X 18 22 13 52.7 24.45N 121.93E 17 3.8L
BJI X 18 22 13 57.3 24.85N 121.20E 15 2.9L
TAP Felt I=IV J, II Suao, Ilan, I Neicheng
TAP X 19 05 27 27.9 24.00N 121.64E 32 3.4L 200-0
¶97x3296
TAP X 20 07 10 58.4 24.12N 121.85E 10 3.7L 180-0
¶97x3459
ISC X 20 14 16 34±1.0 **24.37N**±.045 **121.8E**±.12 **21** **16 0-2**
TAP X 20 14 16 34.5 24.42N 121.76E 21 3.8L **¶97x3516**
TAP Felt I=IV J
ISC X 20 16 36 08±1.1 **24.38N**±.056 **121.8E**±.14 **20**±16 **13 0-1**
TAP X 20 16 36 08.4 24.42N 121.74E 18 2.9L **¶97x3527**
TAP Felt I=III J
ISC X 20 16 54 01.4±.93 **24.41N**±.060 **121.7E**±.15 **12**±10 **10 0-1**
TAP X 20 16 54 01.0 24.42N 121.76E 21 2.7L **¶97x3529**
TAP Felt I=II J
ISC X 20 17 52 20±1.7 **24.4N**±.11 **121.8E**±.17 **20**±22 **11 0-1**
TAP X 20 17 52 20.1 24.43N 121.74E 21 3.1L **¶97x3537**
TAP Felt I=III J
ISC X 20 18 42 28±1.2 **23.9N**±.12 **121.99E**±.086 **48**±14 **3.7b 14 1-69**
EIDC X 20 18 42 22.9 24.0N 122.2E 0 3.7b **¶97x3546**
NEIC X 20 18 42 25.7 23.96N 122.26E 33
TAP X 20 18 42 26.5 23.77N 121.91E 3 4.1L
BJI X 20 18 42 27.1 23.39N 121.68E 22 3.5L
JMA X 20 18 42 28.4±.5 23.82N±.04 122.02E±.03 56 3.5
NEIC Single network solution.
ISC X 20 23 18 59±1.1 **24.39N**±.059 **121.8E**±.15 **21** **11 0-1**
TAP X 20 23 18 58.8 24.42N 121.74E 21 2.8L **¶97x3569**
TAP Felt I=III J
TAP X 20 23 36 19.1 24.84N 121.77E 83 3.4L 180-0
¶97x3573
ISC X 22 00 01 36±1.4 **24.35N**±.094 **121.8E**±.17 **9**±16 **6 0-1**
TAP X 22 00 01 35.4 24.36N 121.73E 13 2.4L **¶97x3721**
TAP Felt I=II J
ISC X 22 00 50 00±2.9 **24.4N**±.11 **121.8E**±.21 **21**±46 **6 0-1**
TAP X 22 00 49 59.4 24.43N 121.74E 23 2.4L **¶97x3733**
TAP Felt I=II J
ISC X 22 19 01 45.9±.42 **24.18N**±.046 **121.88E**±.045 **80**±8.5 3.1b **39 0-49**
BJI X 22 19 01 39.4 23.95N 122.11E 22 3.5L **¶97x3873**
EIDC X 22 19 01 45.7 23.5N 123.3E 0 3.2b,4.0L
TAP X 22 19 01 47.2 24.13N 121.88E 52 4.5L
JMA X 22 19 01 47.4±.4 24.30N±.05 121.94E±.03 76 4.0
TAP Felt I=III J, II Chiawan, Hwalien, I Suao, Neicheng, Tachien
TAP X 22 21 45 30.9 24.40N 120.75E 28 3.3L 180-0
¶97x3886
ISC X 23 11 15 17±1.1 **24.45N**±.082 **121.7E**±.14 **11** **6 0-1**
TAP X 23 11 15 16.0 24.45N 121.74E 11 2.4L **¶97x3979**
TAP Felt I=III J
ISC X 24 08 10 47±1.1 **24.39N**±.075 **121.8E**±.13 **23**±15 **10 0-1**
TAP X 24 08 10 46.8 24.42N 121.73E 26 3.2L **¶97x4124**
TAP Felt I=III J
TAP X 24 23 01 42.7 24.60N 121.78E 69 3.3L 180-0
¶97x4230
ISC X 25 04 07 39±1.5 **24.38N**±.064 **121.8E**±.16 **9**±11 **9 0-1**
TAP X 25 04 07 38.4 24.37N 121.85E 12 2.7L **¶97x4269**
TAP Felt I=II J
ISC X 27 03 11 55±3.0 **24.4N**±.11 **121.9E**±.30 **17** **5 0-1**
TAP X 27 03 11 54.2 24.44N 121.78E 17 2.6L **¶97x4559**
TAP Felt I=III J
TAP X 27 15 31 33.1 24.09N 121.62E 10 3.1L 180-0
¶97x4626
ISC X 28 02 30 31.1±.62 **23.34N**±.034 **120.93E**±.050 **4**±7.7 **20 0-2**
TAP X 28 02 30 29.6 23.32N 120.94E 3 3.8L **¶97x4688**
TAP Felt I=I J Alishan
TAP X 28 02 33 17.0 23.32N 120.93E 5 3.4L 180-0
¶97x4689
ISC X 29 03 41 09.8±.59 **24.11N**±.049 **121.74E**±.057 **25**±6.8 **20 0-2**
JMA X 29 03 41 09.9±.5 24.08N±.06 121.72E±.03 63 3.0 **¶97x4848**
TAP X 29 03 41 10.1 24.18N 121.66E 22 3.8L
TAP Felt I=III J
TAP X 29 06 41 20.5 24.90N 121.72E 79 3.6L 180-0
¶97x4868
TAP X 29 12 23 07.7 24.78N 121.93E 89 3.3L 180-0
¶97x4911
TAP X 29 13 46 08.3 24.06N 121.62E 27 3.4L 180-0
¶97x4918
ISC X 29 23 18 38±1.0 **23.66N**±.032 **120.57E**±.042 **14**±9.0 **3.5b 38 0-49**
TAP X 29 23 18 37.4 23.63N 120.60E 11 4.3L **¶97x4961**
JMA X 29 23 18 38.7±.3 23.71N±.07 120.50E±.03 116
BJI X 29 23 18 46.3 24.30N 120.15E 19 3.8L,3.4s
EIDC X 29 23 18 55.0 23.7N 121.0E 192 2.9b
TAP Felt I=V J, II Chiayi, Alishan
TAP X 30 03 25 28.9 23.83N 121.55E 24 3.3L 180-0
¶97x4983
TAP X 31 06 42 41.4 23.07N 121.36E 20 3.3L 180-0
¶97x5146
TAP X 31 15 35 16.6 23.77N 121.90E 11 3.2L 180-0
¶97x5197
ISC X 31 23 08 32.0±.72 **24.74N**±.048 **121.78E**±.078 **8**±7.0 **16 0-2**
TAP X 31 23 08 31.2 24.74N 121.78E 10 3.3L **¶97x5238**
TAP Felt I=III J Neicheng. II Ilan, I Suao
ISC XI 01 10 14 13.2±.51 **22.83N**±.041 **120.51E**±.069 **40**±8.1 **4.2b 27 0-48**
BJI XI 01 10 14 06.1 22.23N 120.62E 24 3.6L **¶97xi0061**
TAP XI 01 10 14 12.9 22.90N 120.62E 11 4.2L
TAP Felt I=III J, II Shoushan, I Tainan, Chiayi
ISC XI 01 11 31 26±1.4 **24.45N**±.099 **121.7E**±.16 **10**±19 **5 0-1**
TAP XI 01 11 31 25.4 24.45N 121.73E 7 2.1L **¶97xi0073**
ISC Poorly determined
TAP Felt I=IV J
JMA XI 02 08 26 03.0±.3 **24.22N**±.05 **121.84E**±.02 **88**±4 **3.2** **¶97xi0219**
TAP XI 02 08 26 02.4 24.01N 121.67E 40 3.8L
ISC XI 02 14 54 57±1.8 **24.3N**±.11 **121.8E**±.20 **12**±14 **6 0-1**
TAP XI 02 14 54 56.6 24.36N 121.71E 13 2.5L **¶97xi0282**
TAP Felt I=II J
JMA XI 02 18 19 04.6±.3 **23.42N**±.03 **121.60E**±.02 **97** **¶97xi0311**
TAP XI 02 18 19 03.5 23.39N 121.53E 38 3.9L
ISC XI 03 03 18 06.4±.67 **23.43N**±.031 **120.69E**±.043 **11**±5.4 **3.9b 35 0-72**
TAP XI 03 03 18 05.1 23.44N 120.72E 2 4.4L **¶97xi0391**
EIDC XI 03 03 18 05.3 23.3N 120.8E 0 3.8b,3.7L
NEIC XI 03 03 18 08.1 23.32N 120.74E 33 4.5b
BJI XI 03 03 18 11.0 23.92N 120.33E 5 3.8L,4.2b
TAP Felt I=III J Aloshan, Chiayi, I Sun Moon Lake
NEIC Less reliable solution.
BJI Ms3.8
ISC XI 03 19 27 38±1.3 **24.29N**±.070 **121.7E**±.15 **9**±11 **9 0-1**
TAP XI 03 19 27 37.7 24.28N 121.74E 7 2.9L **¶97xi0508**
TAP Felt I=II J
TAP XI 04 15 52 50.2 24.00N 121.69E 29 3.5L 180-0
¶97xi0661

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
JMA	**XI**	**04 19 23 10.0**±.3		**24.11N**±.04	**121.75E**±.02	**94**			¶97xi0677
TAP	XI	04 19 23 08.2		23.85N	121.68E	39	3.9L		
ISC	**XI**	**04 23 11 04.1**±.82		**22.0N**±.16	**120.2E**±.35	**44**	**3.7b**	**8**	**42-84**
EIDC	XI	04 23 10 59.4		22.1N	120.2E	0	3.7b		¶97xi0705
TAP	XI	04 23 11 03.2		22.15N	120.31E	44	4.2L		
ISC	**XI**	**05 05 45 07**±1.9		**24.38N**±.057	**121.9E**±.17	**4**±12		**13**	**0-1**
TAP	XI	05 05 45 06.6		24.41N	121.86E	15	2.9L		¶97xi0738
TAP	Felt I=III J								
ISC	**XI**	**05 20 21 11**±1.4		**24.40N**±.075	**121.8E**±.17	**20**±16		**10**	**0-1**
TAP	XI	05 20 21 10.5		24.43N	121.73E	22	2.5L		¶97xi0857
TAP	Felt I=II J								
TAP	**XI**	**06 06 26 12.3**		**23.99N**	**121.69E**	**19**	**3.1L**		**180-0**
									¶97xi0937
TAP	**XI**	**06 23 04 00.0**		**23.73N**	**121.85E**	**12**	**3.4L**		**180-0**
									¶97xi1048
ISC	**XI**	**07 03 04 40**±1.3		**23.22N**±.072	**120.09E**±.085	**12**±11		**9**	**0-1**
TAP	XI	07 03 04 39.6		23.19N	120.09E	11	2.8L		¶97xi1066
TAP	Felt I=III J								
ISC	**XI**	**07 08 02 44**±3.4		**23.5N**±.17	**120.4E**±.24	**9**		**4**	**0-1**
TAP	XI	07 08 02 43.3		23.54N	120.42E	9	2.1L		¶97xi1097
ISC	Poorly determined								
TAP	Felt I=II J Chiayi								
ISC	**XI**	**07 10 19 21.0**±.50		**24.06N**±.050	**121.97E**±.049	**39**		**24**	**0-3**
TAP	XI	07 10 19 20.2		24.10N	121.97E	39	3.9L		¶97xi1114
JMA	XI	07 10 19 21.8±.4		24.33N±.06	122.06E±.03	75	3.4		
TAP	Felt I=III J, I Hwalien, Chiawan								
TAP	**XI**	**07 16 09 13.2**		**23.96N**	**121.73E**	**40**	**3.3L**		**180-0**
									¶97xi1143
ISC	**XI**	**08 09 12 21**±1.3		**23.22N**±.073	**120.08E**±.086	**11**±11		**9**	**0-1**
TAP	XI	08 09 12 20.7		23.21N	120.09E	12	3.1L		¶97xi1244
TAP	Felt I=III J								
ISC	**XI**	**08 12 47 04**±1.2		**23.21N**±.073	**120.10E**±.084	**10**±12		**12**	**0-2**
TAP	XI	08 12 47 03.4		23.20N	120.09E	11	3.6L		¶97xi1281
TAP	Felt I=IV J								
ISC	**XI**	**08 13 51 57**±1.2		**23.23N**±.081	**120.09E**±.085	**12**±12		**9**	**0-1**
TAP	XI	08 13 51 57.1		23.20N	120.08E	11	2.9L		¶97xi1290
TAP	Felt I=III J								
JMA	**XI**	**09 00 59 16.4**±.5		**25.00N**±.07	**121.88E**±.05	**133**			¶97xi1375
TAP	XI	09 00 59 14.9		25.05N	121.79E	142	3.4L		
JMA	**XI**	**11 10 22 20.6**±.3		**23.68N**±.02	**121.68E**±.02	**65**	**3.3**		¶97xi1772
TAP	XI	11 10 22 20.4		23.74N	121.60E	18	3.8L		
TAP	**XI**	**11 14 19 40.0**		**24.45N**	**121.87E**	**21**	**3.9L**		**180-0**
									¶97xi1805
TAP	**XI**	**11 19 13 15.6**		**24.93N**	**121.95E**	**105**	**3.0L**		**200-0**
									¶97xi1855
ISC	**XI**	**12 03 41 12.9**±.74		**23.09N**±.040	**121.40E**±.061	**16**±11		**26**	**0-3**
BJI	XI	12 03 41 05.6		22.63N	121.62E	32	3.5L		¶97xi1928
TAP	XI	12 03 41 12.5		23.10N	121.37E	19	4.0L		
JMA	XI	12 03 41 14.8±.4		23.09N±.03	121.51E±.03	60	3.3		
TAP	Felt I=III J Chengkung								
TAP	**XI**	**12 04 47 28.9**		**23.10N**	**121.31E**	**19**	**3.2L**		**180-0**
									¶97xi1939
ISC	**XI**	**12 22 36 46.2**±.45		**24.17N**±.027	**121.76E**±.034	**21**±4.0	**4.2b**,3.9s	**76**	**0-83**
TAP	XI	12 22 36 45.2		24.14N	121.77E	8	4.8L		¶97xi2042
JMA	XI	12 22 36 46.6±.2		24.49N±.05	121.66E±.02	84±4	4.1		
NEIC	XI	12 22 36 47.3		24.23N	121.87E	33	4.3b		
BJI	XI	12 22 36 47.5		24.45N	121.63E	10	4.6L,4.5b		
EIDC	XI	12 22 36 58.5		24.2N	121.7E	122	3.8b		
TAP	Felt I=III J, II Chiawan, Hwalien, Neicheng, Suao								
NEIC	Felt I=V MM.								
NEIC	Felt I=III J at Nan-ao. Felt in northern and eastern Taiwan.								
BJI	Ms4.4								
ISC	**XI**	**12 22 52 41.4**±.42		**24.18N**±.031	**121.73E**±.044	**9**		**29**	**0-7**
TAP	XI	12 22 52 41.0		24.19N	121.68E	9	4.2L		¶97xi2044
JMA	XI	12 22 52 41.8±.3		24.44N±.05	121.67E±.02	92			
BJI	XI	12 22 52 43.8		24.32N	121.80E	43	3.8L,4.4b		
TAP	Felt I=III J, II Neicheng, I Hwalien								
JMA	**XI**	**12 23 47 43.0**±.6		**24.08N**±.08	**121.90E**±.04	**79**	**2.7**		**¶97xi2050**
TAP	XI	12 23 47 40.7		23.81N	121.76E	39	3.2L		
ISC	**XI**	**13 06 36 18.1**±.47		**22.78N**±.042	**120.80E**±.051	**27**±6.9		**23**	**0-4**
TAP	XI	13 06 36 17.6		22.76N	120.81E	24	3.9L		¶97xi2091
JMA	XI	13 06 36 18.4±.5		22.64N±.06	120.93E±.05	104			
TAP	Felt I=III J, I Kaohsiung								
TAP	**XI**	**13 14 12 48.5**		**24.16N**	**121.69E**	**10**	**3.5L**		**180-0**
									¶97xi2147
ISC	**XI**	**14 04 29 51.9**±.41		**24.17N**±.021	**121.79E**±.026	**21**±3.1	**4.9b,4.8s**	**214**	**0-168**
TAP	XI	14 04 29 50.8		24.16N	121.76E	3	5.4L		¶97xi2236
JMA	XI	14 04 29 52.0±.3		24.34N±.07	121.60E±.02	80	5.3		
BJI	XI	14 04 29 53.2		24.39N	121.69E	19	5.3L,4.8b		
MOS	XI	14 04 29 53.3		24.3N	121.9E	33	5.4b,5.1s		
NEIC	XI	14 04 29 53.4		24.16N	121.86E	33	5.2b,4.8s		
EIDC	XI	14 04 29 54.6		24.2N	121.8E	32	4.5b,4.5s		
TAP	Felt I=V J, III Chiawan, Hwalien, II Suao, Tachien, Neicheng, Ilan, Sun Moon Lake, I Taipei, Kuangyinshan								
BJI	Ms5.2								
NEIC	Casualties I=VIII MM, landslide/avalanche observed.								
NEIC	One person injured by a landslide on the coastal highway between Hua-lien and Su-ao. Felt I=V J at Hua-lien. Felt in much of Taiwan.								
TAP	**XI**	**14 09 09 46.4**		**22.29N**	**120.71E**	**11**	**3.6L**		**180-0**
									¶97xi2264
TAP	**XI**	**14 14 53 43.9**		**22.69N**	**120.69E**	**23**	**3.1L**		**180-0**
									¶97xi2303
TAP	**XI**	**15 11 45 21.8**		**23.90N**	**121.04E**	**11**	**3.5L**		**180-0**
									¶97xi2466
JMA	**XI**	**15 18 01 47.9**±.3		**23.89N**±.04	**121.88E**±.02	**83**±5	**2.7**		**¶97xi2514**
TAP	XI	15 18 01 47.2		23.78N	121.82E	31	3.3L		
ISC	**XI**	**16 06 33 57.4**±.62		**23.83N**±.053	**121.53E**±.065	**19**±8.5		**19**	**0-2**
TAP	XI	16 06 33 57.4		23.91N	121.45E	16	3.6L		¶97xi2606
JMA	XI	16 06 33 58.3±.4		23.92N±.06	121.51E±.03	85	3.0		
TAP	Felt I=IV								
TAP	**XI**	**16 08 24 26.0**		**22.81N**	**120.27E**	**146**	**3.1L**		**180-0**
									¶97xi2617
TAP	**XI**	**16 17 38 31.1**		**22.91N**	**120.86E**	**13**	**3.2L**		**180-0**
									¶97xi2677
TAP	**XI**	**16 22 48 54.9**		**24.45N**	**121.91E**	**13**	**3.3L**		**180-0**
									¶97xi2706
ISC	**XI**	**17 04 58 53**±1.1		**24.05N**±.050	**121.79E**±.097	**9**		**18**	**0-2**
TAP	XI	17 04 58 53.3		24.13N	121.67E	9	3.9L		¶97xi2738
TAP	Felt I=IV J, III Chiawan, I Hwalien								
ISC	**XI**	**19 03 31 09.9**±.29		**23.85N**±.033	**121.71E**±.039	**60**±4.9	**3.9b**	**51**	**0-72**
EIDC	XI	19 03 31 04.1		23.9N	121.7E	0	3.9b		¶97xi3125
BJI	XI	19 03 31 04.9		23.79N	121.80E	16	4.1L,4.5b		
NEIC	XI	19 03 31 07.1		23.80N	121.73E	33	4.4b		
TAP	XI	19 03 31 10.3		23.85N	121.71E	31	4.8L		
JMA	XI	19 03 31 11.3±.2		23.98N±.04	121.75E±.02	79±4	4.4		
TAP	Felt I=III J, II Hwalien, Chiawan, Ilan, I Tachien, Chengkung, Neicheng, Taichung								
TAP	**XI**	**19 09 17 49.6**		**23.99N**	**121.75E**	**52**	**3.2L**		**180-0**
									¶97xi3182
TAP	**XI**	**21 06 18 45.5**		**24.22N**	**121.91E**	**19**	**3.2L**		**180-0**
									¶97xi3602
JMA	**XI**	**21 08 25 54.3**±.2		**23.69N**±.04	**121.99E**±.02	**105**			¶97xi3623
TAP	XI	21 08 25 52.8		23.74N	121.76E	30	3.2L		
TAP	**XI**	**22 06 25 03.3**		**23.75N**	**121.74E**	**39**	**3.0L**		**200-0**
									¶97xi3819
TAP	**XI**	**22 16 29 39.0**		**24.48N**	**121.89E**	**13**	**3.4L**		**180-0**
									¶97xi3913
ISC	**XI**	**24 03 47 06.7**±.37		**23.78N**±.034	**121.79E**±.047	**42**±6.9	**3.7b**	**42**	**0-72**
EIDC	XI	24 03 47 02.4		23.8N	121.9E	0	3.7b		¶97xi4258
BJI	XI	24 03 47 04.7		23.78N	121.85E	32	3.9L,4.0b		
NEIC	XI	24 03 47 05.2		23.84N	121.99E	33			
TAP	XI	24 03 47 05.8		23.82N	121.72E	13	4.6L		
JMA	XI	24 03 47 06.6±.4		23.82N±.04	121.77E±.03	75	3.8		
NEIC	Single network solution.								
TAP	Felt I=III J, II Hwalien, Chiawan, I Sun Moon Lake								
TAP	**XI**	**24 06 16 04.1**		**24.70N**	**121.57E**	**61**	**4.0L**		**180-0**
									¶97xi4271
ISC	**XI**	**26 17 57 10.6**±.69		**24.31N**±.054	**120.85E**±.079	**32**±7.3		**19**	**0-2**
TAP	XI	26 17 57 10.1		24.30N	120.88E	30	3.8L		¶97xi4727
TAP	Felt I=II J Taichien, I Taichung								
ISC	**XI**	**26 23 58 56**±1.5		**24.43N**±.043	**121.9E**±.14	**10**±7.4		**18**	**0-2**
TAP	XI	26 23 58 56.3		24.46N	121.85E	13	3.8L		¶97xi4762
TAP	Felt I=III J Ilan								
TAP	**XI**	**27 00 21 57.1**		**24.81N**	**121.79E**	**99**	**3.3L**		**180-0**
									¶97xi4767
TAP	**XI**	**27 15 45 27.9**		**23.65N**	**120.45E**	**7**	**3.2L**		**180-0**
									¶97xi4892
TAP	**XI**	**29 18 46 46.8**		**23.26N**	**121.52E**	**19**	**3.7L**		**180-0**
									¶97xi5309
TAP	**XI**	**30 12 14 59.7**		**23.13N**	**121.38E**	**31**	**3.1L**		**180-0**
									¶97xi5411
TAP	**XI**	**30 19 44 09.9**		**22.65N**	**120.68E**	**21**	**3.4L**		**180-0**
									¶97xi5454
TAP	**XII**	**01 00 59 14.2**		**24.64N**	**121.53E**	**64**	**3.0L**		**180-0**
									¶97xii0006
TAP	**XII**	**03 06 52 41.7**		**24.89N**	**121.90E**	**101**	**3.0L**		**180-0**
									¶97xii0372
ISC	**XII**	**04 07 56 28.9**±.48		**23.58N**±.041	**121.59E**±.049	**23**		**25**	**0-3**
TAP	XII	04 07 56 28.7		23.59N	121.56E	23	4.2L		¶97xii0575
JMA	XII	04 07 56 29.8±.2		23.59N±.02	121.65E±.02	86	3.7		
BJI	XII	04 07 56 36.7		24.02N	120.86E	13	3.4L		
TAP	Felt I=III J, I Yuli, Hwalien								
JMA	**XII**	**04 20 45 01.7**±.2		**24.12N**±.04	**121.77E**±.01	**88**	**3.2**		**¶97xii0689**
TAP	XII	04 20 45 00.2		23.90N	121.70E	42	3.6L		
JMA	**XII**	**05 01 00 59.4**±.3		**24.38N**±.05	**121.71E**±.02	**101**			**¶97xii0749**
TAP	XII	05 01 00 58.4		24.04N	121.58E	42	3.7L		
TAP	**XII**	**05 12 39 00.0**		**24.07N**	**121.73E**	**54**	**3.4L**		**180-0**
									¶97xii0867
TAP	**XII**	**06 19 21 35.8**		**23.29N**	**120.15E**	**17**	**3.0L**		**180-0**
									¶97xii1503
TAP	**XII**	**07 03 55 08.3**		**24.70N**	**121.95E**	**103**	**3.2L**		**180-0**
									¶97xii1604
ISC	**XII**	**08 05 05 53.5**±.81		**23.66N**±.054	**120.70E**±.068	**13**±9.3		**10**	**0-1**
TAP	XII	08 05 05 53.0		23.63N	120.71E	15	3.3L		¶97xii1870
TAP	Felt I=II J, I Chiayi								
ISC	**XII**	**08 06 12 29**±4.3		**24.4N**±.23	**121.8E**±.29	**8**		**4**	**0-1**
TAP	XII	08 06 12 28.4		24.48N	121.79E	8	2.4L		¶97xii1879
ISC	Poorly determined								
TAP	Felt I=III J								
ISC	**XII**	**09 01 10 27.7**±.63		**23.84N**±.054	**121.80E**±.055	**43**±19		**24**	**0-3**
TAP	XII	09 01 10 27.4		23.88N	121.73E	45	3.9L		¶97xii2065
JMA	XII	09 01 10 27.5±.3		24.08N±.04	121.78E±.02	87±4	3.6		
TAP	Felt I=III J, I Hwalien								
TAP	**XII**	**09 02 46 16.1**		**23.52N**	**120.87E**	**6**	**3.1L**		**180-0**
									¶97xii2083
TAP	**XII**	**09 03 16 01.3**		**23.73N**	**121.63E**	**37**	**3.0L**		**180-0**
									¶97xii2086
ISC	**XII**	**09 13 51 35.7**±.59		**24.04N**±.036	**121.85E**±.061	**6**	**3.7b**	**28**	**0-83**
EIDC	XII	09 13 51 31.1±4.30		24.0N	119.5E	0	3.6b,3.9L		¶97xii2180
TAP	XII	09 13 51 37.5		24.12N	121.69E	6	4.1L		
EIDC	Error ellipse is semi-major=232.0km semi-minor=22.9km azimuth=92								
TAP	Felt I=III J Chiawan, I Hwalien								
ISC	**XII**	**09 14 08 05.2**±.73		**24.08N**±.043	**121.78E**±.070	**5**	**3.7b**	**23**	**0-83**
EIDC	XII	09 14 08 00.9±2.29		22.7N	122.6E	0	3.5b,3.9L		¶97xii2182
TAP	XII	09 14 08 05.8		24.15N	121.67E	5	4.0L		
EIDC	Error ellipse is semi-major=93.7km semi-minor=27.6km azimuth=100								
TAP	Felt I=III J Chiawan, Hwalien								
ISC	**XII**	**09 14 45 22.6**±.94		**24.13N**±.050	**121.7E**±.10	**8**		**14**	**0-1**
TAP	XII	09 14 45 21.8		24.14N	121.68E	8	3.2L		¶97xii2190
TAP	Felt I=II J								
ISC	**XII**	**09 20 29 17**±1.1		**24.12N**±.050	**121.7E**±.10	**6**±8.3		**15**	**0-1**
TAP	XII	09 20 29 16.9		24.16N	121.66E	7	3.4L		¶97xii2233
TAP	Felt I=II J								
ISC	**XII**	**09 21 39 23.1**±.42		**24.51N**±.040	**121.94E**±.055	**42**±6.0	**3.7b**	**34**	**0-82**
BJI	XII	09 21 39 20.5		24.35N	122.05E	150			¶97xii2244
JMA	XII	09 21 39 22.0±.4		24.82N±.06	121.93E±.03	48	3.9		
TAP	XII	09 21 39 23.2		24.44N	121.88E	16	4.3L		
NEIC	XII	09 21 39 34.5		24.57N	121.62E	150	3.3b		
EIDC	XII	09 21 39 35.6±7.93		24.6N	121.6E	144±76.3	3.3b		
TAP	Felt I=III J, II Ilan								
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi-major=48.9km semi-minor=18.5km azimuth=76								
TAP	**XII**	**10 13 11 20.6**		**22.90N**	**120.65E**	**7**	**3.1L**		**180-0**
									¶97xii2358
ISC	**XII**	**10 13 11 41.1**±.87		**22.89N**±.048	**120.65E**±.068	**13**±9.1		**13**	**0-2**
TAP	XII	10 13 11 40.3		22.90N	120.65E	6	3.4L		¶97xii2359
TAP	Felt I=II J								
TAP	**XII**	**10 15 18 01.6**		**24.44N**	**121.83E**	**54**	**3.1L**		**180-0**
									¶97xii2374

TAP	**XII**	**10 16 04 16.4**	**23.26N**	**121.60E**	**35**	**3.0**L	**180-0**	
								¶97xii2386
TAP	**XII**	**11 03 10 39.4**	**25.17N**	**121.58E**	**138**	**3.1**L	**180-0**	
								¶97xii2477
ISC	**XII**	**11 05 34 12.8**±.80	**24.04N**±.056	**121.6E**±.10	**17**±8.4		**13 0-1**	
TAP	XII	11 05 34 12.4	24.08N	121.53E	16	3.2L		**¶97xii2499**
TAP	Felt I=II J Hwalien							
TAP	**XII**	**12 00 50 10.9**	**24.15N**	**121.67E**	**8**	**3.4**L	**180-0**	
								¶97xii2675
TAP	**XII**	**12 03 37 53.3**	**24.15N**	**121.67E**	**8**	**3.0**L	**180-0**	
								¶97xii2688
ISC	**XII**	**12 06 52 56.6**±.48	**23.15N**±.041	**121.61E**±.051	**28**		**27 0-3**	
BJI	XII	12 06 52 52.3	23.13N	121.60E	16	3.4L		**¶97xii2706**
TAP	XII	12 06 52 56.9	23.21N	121.60E	28	4.3L		
JMA	XII	12 06 52 58.1±.2	23.23N±.02	121.71E±.02	102			
TAP	Felt I=III J Chengkung, I Yuli							
TAP	**XII**	**12 06 58 28.4**	**23.77N**	**121.73E**	**35**	**3.3**L	**180-0**	
								¶97xii2709
ISC	**XII**	**12 22 37 27**±1.6	**24.23N**±.069	**121.8E**±.14	**22**±39		**14 0-1**	
TAP	XII	12 22 37 27.1	24.26N	121.81E	19	3.3L		**¶97xii2835**
TAP	Felt I=III J							
TAP	**XII**	**13 07 49 51.2**	**23.77N**	**121.80E**	**37**	**3.1**L	**180-0**	
								¶97xii2912
ISC	**XII**	**13 21 18 49.5**±.89	**24.14N**±.047	**121.7E**±.10	**10**±7.1		**15 0-1**	
TAP	XII	13 21 18 49.0	24.16N	121.66E	11	3.2L		**¶97xii3022**
TAP	Felt I=III J							
TAP	**XII**	**13 21 21 38.5**	**24.15N**	**121.66E**	**12**	**3.0**L	**180-0**	
								¶97xii3023
ISC	**XII**	**14 16 13 47**±1.4	**24.41N**±.069	**121.8E**±.15	**5**±15		**8 0-1**	
TAP	XII	14 16 13 46.3	24.42N	121.79E	11	2.5L		**¶97xii3167**
TAP	Felt I=III J							
TAP	**XII**	**14 16 16 08.1**	**24.42N**	**121.76E**	**10**	**2.3**L	**¶97xii3168**	
TAP	Felt I=II J							
ISC	**XII**	**15 01 32 20**±1.0	**24.32N**±.063	**122.00E**±.060	**66**±19		**20 0-2**	
TAP	XII	15 01 32 19.8	24.33N	122.04E	54	3.8L		**¶97xii3220**
JMA	XII	15 01 32 21.3±.4	24.69N±.06	122.19E±.03	69	3.2		
TAP	Felt I=II J							
ISC	**XII**	**15 16 26 43.9**±.51	**24.68N**±.035	**121.91E**±.045	**8**		**24 0-3**	
TAP	XII	15 16 26 43.4	24.65N	121.86E	8	3.7L		**¶97xii3310**
JMA	XII	15 16 26 45.4±.5	25.05N±.05	122.12E±.04	28	3.2		
BJI	XII	15 16 26 46.0	24.71N	121.62E	120			
TAP	Felt I=III J Suao, Ilan							
JMA	**XII**	**15 18 54 56.8**±.2	**23.72N**±.01	**121.92E**±.01	**77**	**2.9**	**¶97xii3325**	
TAP	XII	15 18 54 54.9	23.71N	121.80E	17	3.6L		
TAP	**XII**	**16 07 52 46.3**	**24.84N**	**121.97E**	**97**	**3.3**L	**180-0**	
								¶97xii3408
ISC	**XII**	**16 18 11 55**±2.0	**24.47N**±.077	**121.9E**±.20	**24**±15		**11 0-1**	
TAP	XII	16 18 11 55.0	24.52N	121.84E	22	2.7L		**¶97xii3484**
TAP	Felt I=II J Suao							
ISC	**XII**	**19 06 57 56.6**±.71	**24.30N**±.048	**121.6E**±.10	**24**±11		**15 0-1**	
TAP	XII	19 06 57 56.0	24.34N	121.60E	23	3.1L		**¶97xii3909**
TAP	Felt I=III J							
JMA	**XII**	**19 12 01 01.2**±.2	**23.73N**±.02	**121.79E**±.01	**86**	**2.9**	**¶97xii3952**	
TAP	XII	19 12 00 59.2	23.65N	121.72E	32	3.1L		
TAP	**XII**	**21 11 10 14.4**	**23.40N**	**120.02E**	**16**	**3.3**L	**180-0**	
								¶97xii4245
ISC	**XII**	**21 14 52 18.0**±.60	**24.39N**±.035	**121.98E**±.054	**11**		**25 0-3**	
TAP	XII	21 14 52 18.3	24.42N	121.88E	11	3.9L		**¶97xii4263**
JMA	XII	21 14 52 19.0±.5	24.77N±.07	122.04E±.04	54	3.4		
BJI	XII	21 14 52 25.2	24.93N	121.23E	5	3.1L		
TAP	Felt I=IV J							
ISC	**XII**	**21 15 14 01**±2.0	**24.41N**±.074	**121.9E**±.20	**16**		**11 0-1**	
TAP	XII	21 15 14 00.4	24.42N	121.88E	16	2.7L		**¶97xii4267**
TAP	Felt I=II J							
ISC	**XII**	**23 06 57 09.6**±.68	**22.83N**±.062	**120.77E**±.067	**29**±9.4		**12 0-1**	
TAP	XII	23 06 57 09.0	22.83N	120.80E	12	3.4L		**¶97xii4558**
TAP	Felt I=II J							
TAP	**XII**	**23 16 46 52.6**	**24.08N**	**120.99E**	**22**	**3.6**L	**180-0**	
								¶97xii4628
ISC	**XII**	**24 13 25 17**±2.2	**24.41N**±.057	**122.0E**±.18	**11**±9.2		**13 0-1**	
TAP	XII	24 13 25 17.6	24.45N	121.87E	18	3.2L		**¶97xii4761**
TAP	Felt I=III J							
ISC	**XII**	**24 14 13 09**±1.7	**24.4N**±.13	**122.0E**±.19	**75**	3.3b	**7 1-49**	
EIDC	XII	24 14 13 04.8±5.67	24.1N	122.6E	0	3.4b,3.5L		**¶97xii4767**
JMA	XII	24 14 13 08.2±.5	24.98N±.06	122.09E±.04	75	3.3		
TAP	XII	24 14 13 09.5	24.84N	122.11E	78	3.9L		
EIDC	Error ellipse is semi-major=273.5km semi-minor=41.2km azimuth=96							
ISC	**XII**	**26 08 33 22**±1.6	**24.34N**±.084	**121.8E**±.16	**4**±20		**9 0-1**	
TAP	XII	26 08 33 22.3	24.37N	121.75E	11	2.7L		**¶97xii5085**
TAP	Felt I=III J							
ISC	**XII**	**28 10 45 19**±1.3	**24.06N**±.048	**121.79E**±.093	**5**±8.1		**23 0-3**	
BJI	XII	28 10 45 12.3	23.87N	122.22E	18	3.4L		**¶97xii5443**
TAP	XII	28 10 45 19.9	24.13N	121.68E	8	3.9L		
TAP	Felt I=III J							
TAP	**XII**	**28 11 02 10.5**	**24.14N**	**121.68E**	**3**	**3.0**L	**180-0**	
								¶97xii5445
ISC	**XII**	**28 23 44 48**±1.2	**24.12N**±.061	**121.7E**±.13	**9**±8.9		**11 0-1**	
TAP	XII	28 23 44 48.2	24.16N	121.64E	5	2.8L		**¶97xii5513**
TAP	Felt I=II J							
JMA	**XII**	**29 02 02 33.8**±.4	**23.63N**±.03	**121.94E**±.03	**78**	**3.0**	**¶97xii5531**	
TAP	XII	29 02 02 32.4	23.64N	121.79E	24	3.3L		
ISC	**XII**	**29 11 53 31.0**±.55	**23.22N**±.038	**120.40E**±.060	**20**	3.5b	**22 0-84**	
BJI	XII	29 11 53 06.8	21.67N	121.67E	20	4.0L		**¶97xii5580**
TAP	XII	29 11 53 30.1	23.18N	120.45E	8	3.9L		
TAP	Felt I=III J I Chiayi							
TAP	**XII**	**30 11 49 31.8**	**24.45N**	**121.86E**	**19**	**3.1**L	**180-0**	
								¶97xii5729
ISC	**XII**	**30 14 49 47**±1.2	**24.33N**±.055	**121.8E**±.14	**3**±12		**10 0-1**	
TAP	XII	30 14 49 46.0	24.36N	121.72E	14	2.8L		**¶97xii5747**
TAP	Felt I=III J							
ISC	**XII**	**31 07 46 27**±1.6	**24.05N**±.058	**121.8E**±.11	**5**±11		**14 0-2**	
TAP	XII	31 07 46 28.2	24.14N	121.67E	8	3.3L		**¶97xii5857**
TAP	Felt I=II J							

(245) North-east of Taiwan.

JMA	**VII**	**02 02 33 15.9**±.6	**25.99N**±.06	**123.98E**±.05	**198**			**¶97vii0170**
ISC	**VII**	**06 13 56 13**±1.5	**25.6N**±.14	**124.9E**±.14	**3**	**3.5b**	**9 1-80**	
JMA	VII	06 13 56 11.0±.5	25.74N±.02	124.90E±.02	3±4	3.0		**¶97vii0890**
EIDC	VII	06 13 56 15.4	26.3N	128.5E	0	3.4b		
ISC	**VII**	**08 19 26 32**±7.1	**25.6N**±.91	**124.7E**±.40	**181**		**5 1-2**	
JMA	VII	08 19 26 29.3±.5	25.86N±.05	124.76E±.05	181			**¶97vii1224**
JMA	**VII**	**13 06 44 57.7**±.3	**25.77N**±.03	**124.33E**±.04	**170**			**¶97vii1939**
ISC	**VII**	**20 09 42 58**±1.4	**25.3N**±.22	**124.5E**±.16	**117**		**7 1-2**	
JMA	VII	20 09 42 57.9±.2	25.30N±.03	124.54E±.01	117			**¶97vii3059**
ISC	**VII**	**21 00 17 06**±11	**25.2N**±.66	**123.6E**±.17	**0**		**5 1-1**	
JMA	VII	21 00 17 09.9±.6	25.04N±.04	123.55E±.01	0±4	2.9		**¶97vii3164**
ISC	Poorly determined							
ISC	**VII**	**21 03 12 24**±4.0	**25.1N**±.25	**123.6E**±.12	**0**		**5 1-1**	
JMA	VII	21 03 12 24.9±.3	25.06N±.02	123.56E±.01	0	3.2		**¶97vii3181**
JMA	**VII**	**21 05 33 22.9**±.5	**25.17N**±.03	**123.50E**±.02	**13**	**2.8**		**¶97vii3203**
ISC	**VII**	**21 06 09 56**±13	**25.1N**±.88	**123.6E**±.20	**8**		**4 1-1**	
JMA	VII	21 06 09 56.2±.2	25.15N±.02	123.57E±.00	8±3	2.9		**¶97vii3207**
ISC	Poorly determined							
ISC	**VII**	**21 19 08 30**±12	**25.1N**±.78	**123.6E**±.19	**16**		**4 1-1**	
JMA	VII	21 19 08 28.3±.3	25.17N±.02	123.57E±.01	16	2.8		**¶97vii3280**
ISC	Poorly determined							
ISC	**VII**	**21 20 10 29**±1.1	**26.8N**±.17	**125.4E**±.14	**198**±31		**18 1-8**	
JMA	VII	21 20 10 30.5±.2	26.69N±.03	125.48E±.03	193			**¶97vii3284**
ISC	**VII**	**28 20 49 10**±8.2	**25.0N**±.98	**124.3E**±.40	**90**		**4 1-1**	
JMA	VII	28 20 49 10.3±.3	25.03N±.04	124.26E±.02	90			**¶97vii4325**
ISC	Poorly determined							
ISC	**VII**	**29 03 53 03.1**±.68	**25.0N**±.11	**123.4E**±.11	**137**±7.9	**3.4b**	**17 1-78**	
JMA	VII	29 03 53 05.3±.3	24.96N±.03	123.38E±.02	114			**¶97vii4379**
EIDC	VII	29 03 53 15.4	25.0N	123.4E	240	3.1b		
ISC	**VII**	**29 18 14 13**±4.4	**25.1N**±.49	**123.2E**±.25	**110**		**5 1-1**	
JMA	VII	29 18 14 12.8±.3	25.07N±.04	123.20E±.02	110			**¶97vii4463**
ISC	**VII**	**30 15 34 30**±2.8	**25.6N**±.23	**123.4E**±.29	**160**		**10 1-5**	
JMA	VII	30 15 34 31.4±.3	25.46N±.03	123.44E±.03	160			**¶97vii4595**
JMA	**VII**	**30 23 55 37.5**±.5	**25.53N**±.05	**123.93E**±.05	**162**			**¶97vii4653**
ISC	**VIII**	**10 17 35 46**±2.0	**26.6N**±.25	**125.7E**±.20	**177**±29		**13 1-5**	
JMA	VIII	10 17 35 47.3±.4	26.52N±.05	125.73E±.04	160			**¶97viii1429**
JMA	**VIII**	**11 21 59 52.0**±.5	**25.44N**±.05	**124.12E**±.05	**115**			**¶97viii1636**
JMA	**VIII**	**13 20 48 30.2**±.1	**25.05N**±.04	**124.75E**±.02	**139**±2			**¶97viii1955**
ISC	**VIII**	**14 02 57 30.8**±.35	**25.22N**±.045	**124.19E**±.051	**141**±4.3	**4.2b**	**59 1-93**	
BJI	VIII	14 02 57 28.8	25.17N	124.28E	130	4.6b		**¶97viii1994**
NEIC	VIII	14 02 57 29.0	25.30N	124.31E	125	4.4b		
JMA	VIII	14 02 57 31.4±.3	25.33N±.03	124.07E±.03	122	4.2		
EIDC	VIII	14 02 57 34.0	25.3N	124.1E	152	3.8b,3.3s		
NEIC	Felt, Less reliable solution.							
NEIC	Felt at Taipei and in much of Taiwan.							
JMA	**VIII**	**21 21 25 38.3**±.6	**25.35N**±.06	**123.98E**±.06	**170**			**¶97viii3143**
ISC	**VIII**	**26 16 21 17**±4.2	**25.1N**±.26	**123.5E**±.12	**0**		**5 1-1**	
JMA	VIII	26 16 21 17.6±.7	25.12N±.04	123.50E±.02	0	3.3		**¶97viii3877**
JMA	**VIII**	**26 19 57 47.8**±.5	**25.81N**±.05	**124.59E**±.05	**187**			**¶97viii3896**
JMA	**VIII**	**27 09 38 36.7**±.1	**25.11N**±.03	**123.43E**±.01	**190**			**¶97viii3968**
ISC	**IX**	**01 18 09 11**±4.4	**25.2N**±.54	**124.3E**±.25	**123**		**5 1-1**	
JMA	IX	01 18 09 10.4±.2	25.24N±.02	124.34E±.02	123			**¶97ix0150**
ISC	**IX**	**02 12 10 06**±3.3	**25.3N**±.43	**124.1E**±.21	**152**±61		**10 1-4**	
JMA	IX	02 12 10 07.5±.3	25.30N±.04	124.07E±.03	127			**¶97ix0275**
ISC	**IX**	**11 03 29 36**±3.7	**25.3N**±.53	**124.6E**±.20	**131**		**6 1-2**	
JMA	IX	11 03 29 35.0±.2	25.36N±.03	124.58E±.01	131			**¶97ix1626**
JMA	**IX**	**12 15 38 05.4**±.4	**25.02N**±.04	**124.18E**±.03	**82**			**¶97ix1833**
JMA	**IX**	**17 10 07 29.8**±.1	**25.59N**±.04	**124.07E**±.01	**159**±5			**¶97ix2498**
ISC	**IX**	**18 00 55 51**±5.9	**25.0N**±.72	**124.3E**±.38	**97**		**5 1-1**	
JMA	IX	18 00 55 51.2±.5	25.00N±.06	124.25E±.03	97			**¶97ix2589**
JMA	**IX**	**18 14 33 26.8**±.7	**25.07N**±.06	**123.76E**±.05	**91**			**¶97ix2674**
JMA	**IX**	**19 00 58 52.1**±.4	**26.05N**±.03	**123.73E**±.03	**166**			**¶97ix2730**
JMA	**IX**	**20 03 19 07.0**±.6	**25.58N**±.07	**123.91E**±.06	**211**			**¶97ix2887**
JMA	**IX**	**22 20 09 30.7**±.4	**25.64N**±.04	**124.56E**±.02	**130**			**¶97ix3325**
JMA	**IX**	**24 04 32 02.3**±.3	**25.29N**±.04	**124.50E**±.02	**114**			**¶97ix3522**
ISC	**IX**	**24 04 37 50**±2.8	**26.0N**±.28	**125.0E**±.26	**71**		**6 1-2**	
JMA	IX	24 04 37 50.5±.3	25.93N±.03	124.98E±.03	71			**¶97ix3523**
ISC	**IX**	**25 16 54 29**±2.5	**25.9N**±.28	**124.3E**±.22	**152**		**7 1-2**	
JMA	IX	25 16 54 29.7±.4	25.81N±.04	124.35E±.03	152			**¶97ix3765**
JMA	**IX**	**28 18 45 47.4**±.5	**25.18N**±.06	**124.04E**±.05	**126**			**¶97ix4733**
ISC	**IX**	**28 21 45 44**±4.8	**25.3N**±.80	**123.5E**±.34	**217**		**6 1-2**	
JMA	IX	28 21 45 43.3±.4	25.45N±.06	123.45E±.03	217			**¶97ix4765**
JMA	**IX**	**29 00 15 27.0**±.4	**25.23N**±.04	**124.66E**±.03	**97**			**¶97ix4804**
ISC	**IX**	**29 14 25 02**±12	**25.1N**±.72	**124.3E**±.16	**0**		**4 1-1**	
JMA	IX	29 14 25 01.8±.6	25.16N±.03	124.28E±.02	0	3.0		**¶97ix4963**
ISC	Poorly determined							
JMA	**X**	**03 11 55 46.0**±.5	**25.68N**±.05	**123.90E**±.03	**180**			**¶97x0457**
JMA	**X**	**04 12 23 35.9**±.3	**25.88N**±.03	**124.54E**±.02	**187**			**¶97x0638**
ISC	**X**	**07 11 52 40.9**±.56	**25.47N**±.075	**124.21E**±.088	**141**±7.0	**3.6b**	**23 1-78**	
NEIC	X	07 11 52 36.8	25.37N	123.89E	100			**¶97x1243**
EIDC	X	07 11 52 42.3	25.5N	124.3E	135	3.4b		
JMA	X	07 11 52 42.7±.3	25.40N±.03	124.16E±.02	127			
NEIC	Single network solution.							
JMA	**X**	**07 15 05 22.9**±.4	**25.53N**±.04	**123.45E**±.03	**166**			**¶97x1271**
JMA	**X**	**08 03 32 49.3**±.2	**26.24N**±.02	**125.01E**±.02	**203**			**¶97x1348**
ISC	**X**	**08 17 03 12**±5.0	**25.1N**±.49	**123.8E**±.18	**72**		**4 1-1**	
JMA	X	08 17 03 11.8±.5	25.11N±.04	123.84E±.02	72	2.8		**¶97x1442**
ISC	Poorly determined							
ISC	**X**	**09 19 20 22**±3.4	**26.0N**±.25	**123.1E**±.34	**189**		**10 2-6**	
JMA	X	09 19 20 26.1±.5	25.63N±.05	123.34E±.04	189			**¶97x1629**
JMA	**X**	**20 08 22 49.6**±.8	**25.54N**±.07	**123.95E**±.08	**164**			**¶97x3468**
JMA	**X**	**22 07 43 22.4**±.6	**25.73N**±.05	**124.23E**±.05	**176**			**¶97x3769**
ISC	**X**	**24 18 23 03.6**±.51	**26.53N**±.078	**125.45E**±.082	**164**±7.2	**3.6b**	**23 1-78**	
NEIC	X	24 18 23 02.3	26.50N	125.30E	150	3.6b		**¶97x4210**
EIDC	X	24 18 23 02.8	26.5N	125.4E	137	3.5b		
JMA	X	24 18 23 04.7±.4	26.39N±.05	125.54E±.04	160			
NEIC	Less reliable solution.							
JMA	**X**	**28 11 19 06.1**±.6	**25.09N**±.06	**124.04E**±.05	**121**			**¶97x4752**
ISC	**X**	**29 04 40 32**±2.9	**25.0N**±.33	**124.2E**±.14	**65**		**5 1-1**	
JMA	X	29 04 40 32.4±.4	25.00N±.04	124.29E±.02	65	3.1		**¶97x4853**
JMA	**XI**	**01 10 15 26.1**±.4	**25.25N**±.04	**124.37E**±.02	**98**			**¶97xi0063**
JMA	**XI**	**11 16 44 31.1**±.7	**25.10N**±.04	**123.66E**±.02	**16**	**3.2**		**¶97xi1826**
ISC	**XI**	**11 17 15 53**±4.1	**25.0N**±.31	**123.6E**±.13	**20**		**4 1-1**	
JMA	XI	11 17 15 52.7±.7	25.04N±.04	123.67E±.02	20	3.3		**¶97xi1832**
ISC	Poorly determined							
JMA	**XI**	**11 17 18 15.1**±.6	**25.01N**±.04	**123.66E**±.02	**11**	**2.9**		**¶97xi1833**
JMA	**XI**	**13 15 08 50.4**±.6	**25.92N**±.06	**124.83E**±.05	**185**			**¶97xi2157**
ISC	**XI**	**13 20 07 38**±4.2	**25.2N**±.59	**123.2E**±.32	**184**		**5 1-2**	
JMA	XI	13 20 07 37.3±.3	25.27N±.04	123.20E±.02	184			**¶97xi2188**
ISC	**XI**	**19 20 12 41**±5.9	**25.1N**±.64	**123.4E**±.29	**115**		**4 1-1**	
JMA	XI	19 20 12 40.8±.5	25.13N±.05	123.35E±.03	115			**¶97xi3306**
ISC	Poorly determined							
ISC	**XI**	**27 14 40 25**±3.6	**25.1N**±.52	**123.3E**±.29	**177**		**5 1-2**	
JMA	XI	27 14 40 24.2±.3	25.17N±.04	123.27E±.02	177			**¶97xi4876**

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
		mo d h m s		°	°	km			°
ISC	**XI**	**28 17 09 30**±6.6		**25.7N**±.82	**125.0E**±.27	**159**		**5**	**1-2**
JMA	XI	28 17 09 29.1±.5		25.78N±.05	124.95E±.03	159			¶97xi5117
JMA	**XII**	**02 19 03 33.9**±.5		**25.21N**±.04	**123.10E**±.04	**114**			¶97xii0297
JMA	**XII**	**03 10 42 33.7**±.3		**25.69N**±.02	**123.24E**±.03	**177**			¶97xii0406
JMA	**XII**	**03 12 19 36.4**±.3		**25.06N**±.03	**123.73E**±.02	**108**			¶97xii0419
JMA	**XII**	**05 19 27 42.0**±.6		**25.53N**±.06	**123.34E**±.03	**176**			¶97xii1051
JMA	**XII**	**13 08 04 39.2**±.7		**25.33N**±.07	**124.62E**±.04	**94**			¶97xii2916
JMA	**XII**	**14 01 11 34.2**±.3		**25.07N**±.02	**123.92E**±.01	**0**	**3.2**		¶97xii3053
JMA	**XII**	**14 02 40 31.5**±.4		**25.06N**±.02	**123.95E**±.01	**0**±2	**3.0**		¶97xii3069
ISC	**XII**	**14 06 06 07**±4.6		**25.2N**±.62	**123.4E**±.29	**146**		**4**	**1-1**
JMA	XII	14 06 06 07.2±.4		25.17N±.04	123.35E±.03	146			¶97xii3095
ISC	Poorly determined								
ISC	**XII**	**14 21 38 53.9**±.75		**25.1N**±.12	**123.4E**±.13	**164**±8.6	**3.5b**	**16**	**1-81**
NEIC	XII	14 21 38 54.9		25.06N	123.62E	174			¶97xii3201
EIDC	XII	14 21 38 55.1±2.95		25.1N	123.6E	160±27.3	3.3b		
JMA	XII	14 21 38 56.0±.4		25.06N±.05	123.30E±.02	134±5			
NEIC	Single network solution.								
EIDC	Error ellipse is semi−major=33.7km semi−minor=21.3km azimuth=130								
JMA	**XII**	**15 01 37 47.2**±.6		**25.24N**±.04	**123.66E**±.04	**105**			¶97xii3224
JMA	**XII**	**16 18 58 09.8**±.4		**25.33N**±.05	**123.72E**±.03	**168**			¶97xii3488
ISC	**XII**	**18 05 47 17**±3.1		**26.3N**±.33	**124.0E**±.33	**197**		**9**	**2-5**
JMA	XII	18 05 47 19.4±.3		26.05N±.03	124.13E±.02	197			¶97xii3718
ISC	**XII**	**19 18 42 50**±3.0		**25.2N**±.23	**123.9E**±.12	**10**		**5**	**1-1**
JMA	XII	19 18 42 50.8±.2		25.18N±.01	123.90E±.01	10±3	3.4		¶97xii4017
JMA	**XII**	**20 13 28 51.5**±.5		**25.48N**±.04	**124.04E**±.04	**148**			¶97xii4123
ISC	**XII**	**21 02 58 22**±1.8		**25.23N**±.044	**124.48E**±.054	**32**±15	**4.3b,3.9s**	**50**	**1-168**
JMA	XII	21 02 58 19.8±.4		25.35N±.03	124.41E±.02	24	4.0		¶97xii4202
BJI	XII	21 02 58 28.2		25.41N	124.36E	75	4.5b,4.2s		
NEIC	XII	21 02 58 29.6		25.29N	124.41E	100	4.7b		
EIDC	XII	21 02 58 31.2±5.31		25.3N	124.4E	98±49.7	3.8b,3.9s		
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=32.8km semi−minor=12.8km azimuth=77								
ISC	**XII**	**21 07 49 43**±4.2		**25.2N**±.46	**123.8E**±.20	**103**		**5**	**1-1**
JMA	XII	21 07 49 42.7±.4		25.25N±.03	123.82E±.02	103			¶97xii4231
ISC	**XII**	**25 04 18 34.4**±.72		**25.26N**±.096	**123.5E**±.12	**148**±8.8	**3.5b**	**20**	**1-81**
JMA	XII	25 04 18 36.9±.3		25.11N±.04	123.43E±.02	132±4			¶97xii4864
NEIC	XII	25 04 18 39.8		25.16N	123.03E	200			
EIDC	XII	25 04 18 41.8±7.67		25.2N	123.2E	202±74.0	3.3b		
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=68.2km semi−minor=18.9km azimuth=77								
ISC	**XII**	**31 07 43 21**±1.8		**25.2N**±.21	**124.0E**±.18	**110**		**6**	**1-3**
JMA	XII	31 07 43 21.8±.2		25.12N±.03	124.02E±.01	110±4			¶97xii5855
ISC	**XII**	**31 16 47 03**±7.4		**25.7N**±.95	**124.5E**±.26	**193**		**5**	**1-2**
JMA	XII	31 16 47 02.3±.4		25.83N±.05	124.48E±.03	193			¶97xii5929

(246) South-western Ryūkyū Islands.

ISC	**VII**	**02 23 41 48**±3.3		**24.3N**±.29	**123.6E**±.14	**50**±41		**5**	**0-1**
JMA	VII	02 23 41 48.2±.1		24.34N±.01	123.60E±.00	49±1	3.0		¶97vii0322
ISC	Poorly determined								
ISC	**VII**	**04 21 32 19**±6.8		**24.4N**±.40	**125.3E**±.43	**19**		**4**	**0-1**
JMA	VII	04 21 32 18.3±.3		24.36N±.02	125.29E±.01	19±5	2.9		¶97vii0622
ISC	Poorly determined								
ISC	**VII**	**05 12 08 13**±6.6		**24.2N**±.32	**125.2E**±.34	**0**		**4**	**1-1**
JMA	VII	05 12 08 14.0±.5		24.26N±.03	125.23E±.03	0±4	3.1		¶97vii0725
ISC	Poorly determined								
JMA	**VII**	**05 22 33 21.5**±.4		**25.69N**±.05	**125.36E**±.04	**103**			¶97vii0802
ISC	**VII**	**08 22 44 19**±4.8		**24.6N**±.38	**123.4E**±.19	**92**±57		**7**	**0-3**
JMA	VII	08 22 44 20.5±.3		24.66N±.03	123.48E±.01	75±4			¶97vii1245
ISC	**VII**	**09 21 49 30**±2.2		**25.1N**±.28	**125.2E**±.21	**24**±28		**7**	**0-2**
JMA	VII	09 21 49 29.7±.1		25.11N±.01	125.19E±.01	28	3.3		¶97vii1400
ISC	**VII**	**10 21 50 31**±2.5		**24.8N**±.31	**124.1E**±.15	**60**		**5**	**0-1**
JMA	VII	10 21 50 30.5±.2		24.82N±.03	124.13E±.01	60±4	2.7		¶97vii1573
JMA	**VII**	**11 02 22 54.5**±.3		**24.99N**±.04	**123.03E**±.02	**123**			¶97vii1617
ISC	**VII**	**11 06 27 05**±1.4		**24.7N**±.74	**125.0E**±.31	**30**		**5**	**0-1**
JMA	VII	11 06 27 05.1±.4		24.58N±.05	125.11E±.03	30	3.1		¶97vii1631
ISC	**VII**	**11 11 59 03**±1.2		**24.4N**±.15	**123.79E**±.090	**11**±12		**5**	**0-1**
JMA	VII	11 11 59 03.0±.0		24.39N±.01	123.79E±.00	9±1	2.8		¶97vii1682
ISC	Poorly determined								
ISC	**VII**	**11 23 36 16**±2.0		**24.6N**±.35	**123.4E**±.14	**68**		**5**	**0-1**
JMA	VII	11 23 36 15.5±.2		24.63N±.02	123.37E±.01	68±2			¶97vii1744
JMA	**VII**	**14 02 20 13.4**±.3		**25.84N**±.06	**125.14E**±.08	**192**			¶97vii2060
ISC	**VII**	**14 11 57 39.7**±.85		**24.22N**±.083	**125.33E**±.060	**42**±7.5	**3.8b**,3.5s	**28**	**1-80**
BJI	VII	14 11 57 37.7		24.21N	125.54E	35	4.4b,3.7s		¶97vii2123
NEIC	VII	14 11 57 38.7		24.19N	125.23E	33			
JMA	VII	14 11 57 40.0±.2		24.31N±.02	125.29E±.01	48	3.8		
EIDC	VII	14 11 57 40.0		24.1N	125.3E	32	3.6b,3.7s		
NEIC	Less reliable solution.								
ISC	**VII**	**14 15 22 06**±4.7		**24.2N**±.22	**125.3E**±.28	**3**		**5**	**1-1**
JMA	VII	14 15 22 06.1±.5		24.19N±.02	125.31E±.03	3	2.9		¶97vii2160
ISC	**VII**	**15 03 18 26**±2.6		**24.9N**±.22	**123.0E**±.24	**94**		**6**	**0-4**
JMA	VII	15 03 18 26.6±.3		24.83N±.03	123.04E±.02	94±4			¶97vii2245
ISC	**VII**	**15 22 29 08**±1.5		**25.0N**±.31	**125.1E**±.22	**32**±21		**7**	**0-2**
JMA	VII	15 22 29 07.8±.1		25.05N±.02	125.11E±.01	33	3.2		¶97vii2360
ISC	**VII**	**16 14 56 45**±1.1		**24.5N**±.11	**124.52E**±.094	**17**±11	**3.8b**,3.9s	**14**	**0-68**
JMA	VII	16 14 56 44.8±.2		24.64N±.05	124.44E±.03	23±5	3.8		¶97vii2455
EIDC	VII	16 14 56 45.9		24.3N	124.9E	0	3.5b,3.7L		
NEIC	VII	16 14 56 48.1		24.42N	124.80E	33			
NEIC	Poor solution.								
ISC	**VII**	**16 15 15 21**±1.8		**24.6N**±.36	**124.4E**±.18	**7**		**4**	**0-1**
JMA	VII	16 15 15 21.2±.1		24.56N±.02	124.45E±.01	7±3	2.8		¶97vii2458
ISC	Poorly determined								
ISC	**VII**	**16 15 51 39.6**±.85		**24.6N**±.34	**124.5E**±.19	**21**±22		**7**	**0-3**
JMA	VII	16 15 51 39.5±.2		24.65N±.03	124.43E±.01	20	3.5		¶97vii2461
ISC	**VII**	**16 16 05 24**±2.3		**24.6N**±.36	**124.4E**±.17	**8**		**4**	**0-1**
JMA	VII	16 16 05 24.4±.1		24.58N±.02	124.44E±.01	8±3	2.8		¶97vii2463
ISC	Poorly determined								
ISC	**VII**	**16 16 40 34**±1.5		**24.6N**±.23	**124.4E**±.11	**14**		**5**	**0-1**
JMA	VII	16 16 40 34.6±.2		24.66N±.03	124.41E±.01	14	3.0		¶97vii2469
ISC	**VII**	**16 19 06 52**±1.1		**24.6N**±.38	**124.5E**±.21	**20**±33		**6**	**0-1**
JMA	VII	16 19 06 51.5±.1		24.64N±.03	124.43E±.02	17±4	3.1		¶97vii2481
ISC	**VII**	**16 22 31 00**±1.2		**24.6N**±.22	**124.43E**±.099	**14**		**6**	**0-1**
JMA	VII	16 22 31 00.5±.2		24.66N±.03	124.41E±.01	14	3.3		¶97vii2505
ISC	**VII**	**18 21 52 03**±2.1		**25.9N**±.38	**125.2E**±.27	**165**±48		**12**	**1-5**
JMA	VII	18 21 52 04.4±.2		25.98N±.04	125.20E±.04	142			¶97vii2794
JMA	**VII**	**19 02 14 56.5**±.1		**24.81N**±.05	**124.55E**±.02	**107**±2			¶97vii2818
ISC	**VII**	**19 06 00 09**±7.0		**24.2N**±.79	**125.9E**±.58	**86**±50		**7**	**1-3**
JMA	VII	19 06 00 08.8±.3		24.18N±.03	125.87E±.02	88			¶97vii2836
ISC	**VII**	**19 23 28 14**±13		**23.2N**±.89	**124.6E**±.49	**45**		**5**	**1-2**
JMA	VII	19 23 28 13.8±.2		23.19N±.02	124.57E±.01	45	2.8		¶97vii2972
ISC	**VII**	**20 10 18 11**±1.2		**24.6N**±.38	**124.5E**±.21	**20**±35		**6**	**0-1**
JMA	VII	20 10 18 11.3±.2		24.66N±.03	124.41E±.01	14	2.9		¶97vii3071
JMA	**VII**	**20 16 00 22.4**±.2		**23.72N**±.01	**125.50E**±.01	**63**			¶97vii3119
JMA	**VII**	**21 16 13 45.1**±.2		**23.35N**±.02	**123.00E**±.01	**59**	**3.1**		¶97vii3262
TAP	VII	21 16 13 44.7		23.33N	122.93E	20	3.6L		
ISC	**VII**	**21 17 33 28**±1.1		**24.7N**±.33	**124.9E**±.18	**20**±18		**6**	**0-2**
JMA	VII	21 17 33 28.2±.2		24.81N±.05	124.83E±.02	21±3	3.0		¶97vii3268
ISC	**VII**	**22 20 25 18**±3.3		**24.9N**±.67	**125.1E**±.18	**52**		**5**	**0-2**
JMA	VII	22 20 25 17.7±.2		24.88N±.06	125.15E±.02	52	2.8		¶97vii3429
ISC	**VII**	**22 23 06 52**±1.4		**24.3N**±.22	**123.35E**±.099	**18**		**5**	**0-1**
JMA	VII	22 23 06 52.5±.1		24.30N±.02	123.35E±.01	18±3	3.4		¶97vii3447
ISC	**VII**	**23 19 06 11.6**±.49		**24.78N**±.051	**125.41E**±.040	**54**±4.5	**4.3b,3.9s**	**91**	**0-122**
BJI	VII	23 19 06 10.4		24.79N	125.54E	57	4.0L,4.3b		¶97vii3570
NEIC	VII	23 19 06 11.0		24.80N	125.36E	50	4.8b		
JMA	VII	23 19 06 11.6±.1		24.92N±.04	125.31E±.03	51	4.2		
MOS	VII	23 19 06 11.9		24.8N	125.3E	53	5.2b		
EIDC	VII	23 19 06 12.4		24.8N	125.3E	52	4.0b,3.6s		
BJI	Ms3.8								
NEIC	Less reliable solution.								
JMA	Felt I=III J1								
ISC	**VII**	**24 04 50 03**±1.8		**24.6N**±.36	**123.5E**±.14	**68**		**5**	**0-1**
JMA	VII	24 04 50 03.0±.2		24.61N±.02	123.49E±.01	68±3			¶97vii3618
ISC	**VII**	**24 13 11 31**±2.9		**24.9N**±.66	**125.1E**±.17	**46**		**5**	**0-2**
JMA	VII	24 13 11 31.1±.2		24.94N±.03	125.10E±.01	46	3.3		¶97vii3672
ISC	**VII**	**26 08 22 50**±3.2		**24.8N**±.46	**123.5E**±.18	**93**		**5**	**0-1**
JMA	VII	26 08 22 49.8±.1		24.83N±.02	123.53E±.01	93±2			¶97vii3939
JMA	**VII**	**26 10 03 37.8**±.2		**23.72N**±.01	**125.91E**±.01	**80**			¶97vii3949
ISC	**VII**	**27 07 56 20**±4.3		**24.9N**±.82	**125.1E**±.21	**30**		**5**	**0-1**
JMA	VII	27 07 56 18.3±.6		25.06N±.05	125.02E±.02	30	3.3		¶97vii4080
ISC	**VII**	**27 15 11 19**±10		**24.3N**±.58	**125.3E**±.57	**20**±49		**6**	**1-2**
JMA	VII	27 15 11 17.1±.5		24.16N±.02	125.39E±.03	7±5	3.1		¶97vii4125
ISC	Poorly determined								
ISC	**VII**	**30 03 52 51.0**±.55		**25.50N**±.092	**125.33E**±.096	**91**±7.9	**3.7b**	**16**	**1-95**
EIDC	VII	30 03 52 41.2		25.3N	124.9E	0	3.8b,3.7L		¶97vii4529
NEIC	VII	30 03 52 46.2		25.42N	125.07E	50			
JMA	VII	30 03 52 51.2±.2		25.55N±.03	125.29E±.03	83			
NEIC	Single network solution.								
ISC	**VIII**	**01 08 57 11**±3.7		**24.2N**±.49	**124.7E**±.26	**49**±62		**6**	**0-2**
JMA	VIII	01 08 57 10.8±.2		24.16N±.03	124.69E±.01	55±3	3.1		¶97viii0042
ISC	**VIII**	**02 05 18 54**±1.5		**24.3N**±.20	**123.39E**±.099	**20**		**5**	**0-1**
JMA	VIII	02 05 18 54.5±.1		24.28N±.01	123.39E±.01	20±2	3.0		¶97viii0176
ISC	**VIII**	**02 23 51 34**±5.6		**24.3N**±.30	**125.2E**±.29	**2**		**4**	**1-1**
JMA	VIII	02 23 51 34.3±.3		24.26N±.02	125.17E±.02	2±3	3.0		¶97viii0272
ISC	Poorly determined								
ISC	**VIII**	**03 00 35 17**±6.0		**24.5N**±.38	**125.2E**±.39	**14**		**4**	**0-1**
JMA	VIII	03 00 35 16.9±.1		24.41N±.01	125.23E±.01	14±2	3.2		¶97viii0276
ISC	Poorly determined								
JMA	**VIII**	**05 02 15 43.4**±.2		**24.98N**±.03	**123.14E**±.01	**107**			¶97viii0599
ISC	**VIII**	**05 11 22 30**±8.4		**24.8N**±.81	**123.9E**±.39	**68**		**5**	**0-1**
JMA	VIII	05 11 22 30.6±.2		24.80N±.02	123.89E±.01	68±3			¶97viii0661
ISC	Poorly determined								
ISC	**VIII**	**09 00 23 07**±2.4		**24.8N**±.17	**123.3E**±.11	**7**		**6**	**1-2**
JMA	VIII	09 00 23 06.9±.3		24.90N±.02	123.33E±.01	7±4	3.2		¶97viii1182
ISC	**VIII**	**09 00 27 18**±3.6		**24.9N**±.26	**123.3E**±.14	**20**		**5**	**1-1**
JMA	VIII	09 00 27 18.0±.3		24.93N±.02	123.30E±.01	20	3.1		¶97viii1183
ISC	**VIII**	**10 14 12 03.3**±.65		**25.5N**±.20	**125.9E**±.16	**0**		**10**	**1-3**
JMA	VIII	10 14 12 03.0±.1		25.53N±.04	125.90E±.04	0	3.6		¶97viii1401
ISC	**VIII**	**11 07 36 23**±1.3		**24.7N**±.44	**124.9E**±.19	**18**±15		**6**	**0-2**
JMA	VIII	11 07 36 23.0±.2		24.80N±.03	124.83E±.01	20	3.3		¶97viii1527
ISC	**VIII**	**13 04 45 03.2**±.32		**25.13N**±.018	**125.87E**±.019	**40**±2.9	**6.0b,5.7s**	**858**	**1-177**
BJI	VIII	13 04 45 03.9		25.09N	125.98E	60	5.5L,5.9b		¶97viii1852
JMA	VIII	13 04 45 04.0±.2		25.19N±.04	125.82E±.03	94±4	6.2		
NEIC	VIII	13 04 45 04.8		25.03N	125.77E	55	6.0b,5.6s		
MOS	VIII	13 04 45 05.4		25.3N	125.7E	54	6.7b,5.7s		
HRVD	VIII	13 04 45 07.0±.2		24.90N±.02	125.88E±.02	57			
EIDC	VIII	13 04 45 07.4		25.1N	125.9E	66	5.5b		
BJI	Ms5.9								
JMA	Felt I=IV J1								
NEIC	Mw6.2(GS), Me5.7(GS). Felt I=VI MM.								
NEIC	Mw 6.2 (HRV). Felt I=IV J on Miyako-jima.								
NEIC	Radiated energy from the P−wave first−motion solution: 8.3±1.3×10^{12}Nm/11								
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S350°,δ65°,λ110°. NP2:ϕ_S129°,δ32°,λ54°. Principal axes: T Plg64°,Azm294°; P Plg18°,Azm65°. Depth from synthetics of broadband displacement seismograms.								
NEIC	Moment tensor solution: s31, scale 10^{18}Nm; M_{rr}1.52; $M_{\theta\theta}$−0.67; $M_{\phi\phi}$−0.85; $M_{r\theta}$−0.17; $M_{r\phi}$1.12; $M_{\theta\phi}$0.83. Depth 54km; Principal axes: T 1.98,Plg67°,Azm279°; N −0.10,Plg15°, Azm148°; P −1.88,Plg16°,Azm54°. Best double couple: $M_0$1.9×10^{18}Nm; NP1:ϕ_S122°,δ32°, λ60°. NP2:ϕ_S336°,δ63°,λ107°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c44; Mantle waves: s34,c43; Half duration: 2s9. Moment tensor: Scale 10^{18}Nm; M_{rr}1.49±.02; $M_{\theta\theta}$0.09±.03; $M_{\phi\phi}$−1.57±.03; $M_{r\theta}$0.07±.03; $M_{r\phi}$0.73±.03; $M_{\theta\phi}$0.79±.02. Principal Axes: T 1.69,Plg73°,Azm303°; N 0.32,Plg14°,Azm162°; P −2.01,Plg11°,Azm70°. Best double couple: $M_0$1.9×10^{18}Nm, NP1:ϕ_S143°,δ36°,λ67°. NP2:ϕ_S351°,δ57°,λ106°.								
ISC	**VIII**	**13 06 13 35**±1.9		**25.1N**±.53	**125.9E**±.42	**76**		**6**	**1-3**
JMA	VIII	13 06 13 35.3±.2		25.14N±.05	125.85E±.05	76			¶97viii1861
ISC	**VIII**	**14 03 29 00.0**±.80		**25.3N**±.12	**125.4E**±.11	**0**		**9**	**1-2**
JMA	VIII	14 03 29 00.0±.2		25.34N±.03	125.43E±.03	0	3.5		¶97viii1997
ISC	**VIII**	**14 07 39 55**±1.1		**25.0N**±.19	**126.0E**±.13	**106**±23		**15**	**1-8**
JMA	VIII	14 07 39 56.8±.1		25.23N±.04	125.80E±.03	83			¶97viii2022
JMA	**VIII**	**17 02 08 41.4**±.0		**24.06N**±.00	**123.65E**±.00	**41**±	**2.8**		¶97viii2457
ISC	**VIII**	**19 04 26 29.2**±.76		**24.78N**±.036	**123.20E**±.040	**25**±6.4	**4.5b,4.5s**	**75**	**0-90**
EIDC	VIII	19 04 26 26.7		24.9N	123.4E	0	4.2b,4.2s		¶97viii2762
JMA	VIII	19 04 26 28.4±.3		24.86N±.02	123.23E±.02	17	4.4		
NEIC	VIII	19 04 26 29.8		24.90N	123.30E	33	4.8b		
MOS	VIII	19 04 26 30.5		24.7N	123.1E	33	5.0b,4.7s		
BJI	VIII	19 04 26 30.6		24.84N	123.31E	34	4.6L,4.5b		
BJI	Ms4.7								
ISC	**VIII**	**19 18 30 10**±1.8		**25.7N**±.22	**125.2E**±.20	**44**		**6**	**1-2**
JMA	VIII	19 18 30 09.0±.2		25.77N±.02	125.15E±.02	44	3.2		¶97viii2854
ISC	**VIII**	**19 19 41 18**±1.3		**25.6N**±.20	**125.4E**±.18	**57**		**6**	**1-2**
JMA	VIII	19 19 41 17.0±.3		25.71N±.04	125.23E±.04	57	3.5		¶97viii2860
ISC	**VIII**	**20 12 27 49.5**±.57		**25.63N**±.061	**125.29E**±.058	**46**±8.1	**4.0b,3.9s**	**35**	**1-84**
JMA	VIII	20 12 27 45.6±.3		25.72N±.04	125.19E±.05	10	3.8		¶97viii2961
NEIC	VIII	20 12 27 48.8		25.82N	125.33E	33	4.5b		
BJI	VIII	20 12 27 48.9		25.59N	125.21E	26	4.5L,4.6b		
EIDC	VIII	20 12 27 55.8		25.9N	125.4E	80	3.6b,3.8s		
NEIC	Less reliable solution.								
BJI	Ms4.3								

JMA	**VIII 20 16 06 00.0**±.6	**24.33N**±.05	**123.00E**±.03	**70**±5			¶97viii2985
JMA	**VIII 20 16 15 10.1**±.5	**24.97N**±.06	**125.97E**±.06	**39**	**3.2**		¶97viii2986
ISC	**VIII 20 18 01 06**±1.3	**25.6N**±.15	**125.3E**±.14	**28**		**7**	**1-2**
JMA	VIII 20 18 01 03.7±.3	25.80N±.03	125.12E±.03	28	3.4		¶97viii2997
ISC	**VIII 20 19 42 47**±1.1	**24.8N**±.18	**124.3E**±.12	**61**		**7**	**0-3**
JMA	VIII 20 19 42 46.9±.2	24.80N±.04	124.30E±.02	61±4	3.6		¶97viii3006
ISC	**VIII 21 06 49 43**±3.4	**24.0N**±.30	**123.6E**±.12	**19**±21		**5**	**0-1**
JMA	VIII 21 06 49 42.6±.3	23.99N±.02	123.61E±.01	21±2	2.8		¶97viii3067
ISC	Poorly determined						
ISC	**VIII 21 10 50 15**±1.1	**24.9N**±.32	**125.1E**±.21	**27**±18		**7**	**0-2**
JMA	VIII 21 10 50 13.7±.4	25.00N±.04	125.07E±.02	26	3.1		¶97viii3086
ISC	**VIII 23 18 01 02**±3.2	**24.9N**±.51	**125.1E**±.17	**11**±19		**7**	**0-2**
JMA	VIII 23 18 01 01.3±.4	24.95N±.03	125.04E±.02	9±5	3.0		¶97viii3431
ISC	**VIII 24 08 45 13**±1.3	**23.3N**±.18	**124.0E**±.22	**33**	**3.6b**	**4**	**18-48**
EIDC	VIII 24 08 45 09.8	23.3N	123.9E	0	3.6b,3.9L		¶97viii3502
ISC	Poorly determined						
ISC	**VIII 24 17 02 10**±1.5	**25.6N**±.20	**125.0E**±.16	**82**		**7**	**1-2**
JMA	VIII 24 17 02 10.3±.2	25.57N±.02	125.03E±.02	82			¶97viii3566
ISC	**VIII 24 20 19 12**±3.8	**24.9N**±.24	**124.0E**±.14	**7**±29		**5**	**1-1**
JMA	VIII 24 20 19 13.1±.3	24.87N±.02	123.97E±.01	11	2.8		¶97viii3585
ISC	Poorly determined						
ISC	**VIII 27 19 07 30.8**±.66	**25.84N**±.097	**125.4E**±.13	**123**±8.7	**3.6b**	**12**	**1-66**
JMA	VIII 27 19 07 31.2±.5	25.95N±.05	125.27E±.05	102			¶97viii4026
EIDC	VIII 27 19 07 32.7	25.8N	125.0E	124	3.3b		
JMA	**VIII 28 11 11 58.6**±.2	**24.28N**±.07	**123.91E**±.03	**79**			¶97viii4121
ISC	**VIII 30 02 40 01**±3.3	**24.8N**±.46	**123.3E**±.20	**85**		**6**	**0-2**
JMA	VIII 30 02 40 00.8±.2	24.80N±.03	123.25E±.01	85±3			¶97viii4412
ISC	**VIII 30 11 06 29**±3.4	**24.7N**±.94	**125.2E**±.41	**27**±35		**5**	**0-1**
JMA	VIII 30 11 06 28.4±.2	24.57N±.04	125.19E±.01	27±3	2.8		¶97viii4473
ISC	Poorly determined						
ISC	**VIII 30 15 35 28**±1.6	**24.9N**±.37	**125.1E**±.26	**31**±21		**6**	**0-2**
JMA	VIII 30 15 35 27.8±.2	24.93N±.04	125.12E±.02	42	3.1		¶97viii4506
ISC	**IX 01 12 35 53**±4.8	**24.0N**±.39	**123.2E**±.21	**13**		**5**	**0-1**
JMA	IX 01 12 35 53.6±.3	24.06N±.02	123.21E±.01	13±3	2.9		¶97ix0103
ISC	**IX 01 23 18 30**±3.9	**24.1N**±.35	**123.3E**±.17	**16**±32		**5**	**0-1**
JMA	IX 01 23 18 30.5±.2	24.07N±.02	123.28E±.01	21±2	2.9		¶97ix0179
ISC	Poorly determined						
JMA	**IX 02 04 02 36.6**±.1	**24.86N**±.04	**124.78E**±.02	**78**±2			¶97ix0218
ISC	**IX 02 16 14 43**±1.9	**24.3N**±.24	**124.2E**±.15	**21**±16		**5**	**0-1**
JMA	IX 02 16 14 42.8±.1	24.31N±.02	124.21E±.01	20±2	2.8		¶97ix0300
ISC	Poorly determined						
ISC	**IX 02 20 33 37**±2.0	**25.7N**±.21	**125.2E**±.21	**35**		**7**	**1-2**
JMA	IX 02 20 33 35.6±.2	25.79N±.02	125.11E±.02	35	3.4		¶97ix0326
ISC	**IX 02 21 28 17**±4.2	**24.9N**±.56	**123.1E**±.28	**117**		**5**	**0-2**
JMA	IX 02 21 28 17.1±.3	24.89N±.05	123.09E±.02	117			¶97ix0331
ISC	**IX 03 05 15 37**±3.0	**24.1N**±.27	**123.8E**±.14	**41**±30		**5**	**0-1**
JMA	IX 03 05 15 36.4±.2	24.12N±.02	123.79E±.01	45±2	2.8		¶97ix0384
ISC	Poorly determined						
ISC	**IX 05 05 05 42.4**±.99	**23.38N**±.086	**123.8E**±.19	**60**	**3.4b**	**9**	**1-69**
JMA	IX 05 05 05 41.2±.3	23.29N±.02	123.77E±.02	60	3.5		¶97ix0699
EIDC	IX 05 05 05 43.0	23.0N	125.7E	0	3.5b		
ISC	**IX 05 14 13 22**±2.6	**24.1N**±.24	**123.6E**±.12	**21**±21		**5**	**0-1**
JMA	IX 05 14 13 21.7±.1	24.07N±.01	123.56E±.00	22±2	3.3		¶97ix0753
ISC	Poorly determined						
JMA	**IX 06 09 21 36.8**±.3	**23.28N**±.02	**124.75E**±.03	**35**	**2.8**		¶97ix0897
ISC	**IX 06 23 19 18**±3.4	**24.3N**±.49	**126.0E**±.29	**86**±40		**9**	**1-3**
JMA	IX 06 23 19 17.4±.3	24.18N±.03	126.01E±.02	89			¶97ix0984
ISC	**IX 07 03 41 23**±4.0	**24.9N**±.74	**125.6E**±.58	**49**		**6**	**0-2**
JMA	IX 07 03 41 23.5±.1	24.96N±.03	125.57E±.03	49	3.6		¶97ix1006
ISC	**IX 07 10 14 52**±9.3	**23.2N**±.70	**126.0E**±.40	**78**		**7**	**2-3**
JMA	IX 07 10 14 57.5±.2	23.48N±.01	125.64E±.01	78			¶97ix1046
ISC	**IX 07 11 17 01.8**±.48	**24.92N**±.065	**125.32E**±.055	**49**±5.4	**4.1b**	**46**	**0-88**
JMA	IX 07 11 17 01.3±.4	24.93N±.08	125.35E±.05	64	4.2		¶97ix1055
EIDC	IX 07 11 17 02.5	24.9N	125.1E	40	3.8b,3.9L		
BJI	IX 07 11 17 03.6	24.99N	125.32E	71	4.6b,3.6s		
NEIC	IX 07 11 17 04.0	24.90N	125.19E	71	4.1b		
JMA	Felt I=III J1						
ISC	**IX 07 11 46 30**±1.2	**24.9N**±.28	**125.3E**±.21	**50**		**7**	**0-2**
JMA	IX 07 11 46 28.9±.2	24.83N±.06	125.38E±.04	50	3.0		¶97ix1060
ISC	**IX 07 15 35 40.0**±.87	**24.09N**±.077	**123.00E**±.088	**42**±11	**3.6b**	**16**	**0-69**
NEIC	IX 07 15 35 37.1	24.09N	122.09E	33	4.4b		¶97ix1095
JMA	IX 07 15 35 40.6±.4	24.40N±.03	123.03E±.03	48±3	4.0		
EIDC	IX 07 15 35 41.7	24.1N	123.8E	29	3.5b		
BJI	IX 07 15 35 47.2	24.99N	122.43E	17	3.5L,4.2b		
NEIC	Poor solution.						
ISC	**IX 07 18 54 00**±3.9	**24.2N**±.21	**125.1E**±.22	**1**		**5**	**1-1**
JMA	IX 07 18 54 00.6±.4	24.26N±.02	125.15E±.03	1±4	2.9		¶97ix1114
ISC	**IX 08 10 26 59**±3.1	**24.3N**±.38	**124.6E**±.19	**31**±16		**11**	**0-25**
JMA	IX 08 10 26 59.3±.3	24.29N±.04	124.56E±.02	40±3	3.6		¶97ix1208
JMA	**IX 09 05 03 34.8**±.3	**23.42N**±.02	**123.67E**±.01	**51**±4	**2.8**		¶97ix1325
JMA	**IX 12 08 15 20.2**±.8	**25.10N**±.08	**125.35E**±.03	**44**	**2.9**		¶97ix1785
ISC	**IX 13 00 51 39**±8.8	**23.8N**±.74	**123.6E**±.17	**32**±16		**5**	**0-1**
JMA	IX 13 00 51 37.3±.1	23.64N±.01	123.65E±.00	39±1	3.1		¶97ix1890
ISC	Poorly determined						
ISC	**IX 13 04 24 48**±3.2	**24.6N**±.30	**125.2E**±.27	**23**		**5**	**0-1**
JMA	IX 13 04 24 47.8±.2	24.53N±.03	125.20E±.01	23±4	3.0		¶97ix1916
JMA	**IX 13 06 05 01.0**±.2	**23.63N**±.01	**123.67E**±.01	**39**±2	**3.4**		¶97ix1933
ISC	**IX 13 16 22 59**±3.2	**24.1N**±.29	**124.4E**±.16	**22**±21		**6**	**0-1**
JMA	IX 13 16 22 58.8±.2	24.07N±.02	124.41E±.01	25±3	3.1		¶97ix1993
JMA	**IX 15 12 30 13.9**±.4	**23.54N**±.03	**123.68E**±.04	**36**	**2.8**		¶97ix2244
JMA	**IX 17 06 10 42.9**±.1	**24.92N**±.01	**123.03E**±.01	**118**±2			¶97ix2474
ISC	**IX 17 21 09 54**±4.2	**23.9N**±.33	**125.7E**±.24	**33**		**7**	**1-3**
JMA	IX 17 21 09 51.2±.3	23.79N±.02	125.77E±.02	33	3.6		¶97ix2557
ISC	**IX 19 17 05 59**±2.8	**24.7N**±.40	**123.4E**±.17	**83**		**5**	**0-1**
JMA	IX 19 17 05 59.1±.3	24.77N±.04	123.36E±.02	83			¶97ix2819
ISC	**IX 19 21 35 03**±6.8	**24.1N**±.79	**125.6E**±.54	**79**±61		**7**	**1-2**
JMA	IX 19 21 35 00.7±.4	23.91N±.03	125.76E±.02	69			¶97ix2852
ISC	**IX 20 04 09 05**±5.9	**23.9N**±.48	**123.4E**±.17	**18**±29		**5**	**0-1**
JMA	IX 20 04 09 03.8±.4	23.84N±.03	123.37E±.01	25±4	3.3		¶97ix2894
ISC	Poorly determined						
ISC	**IX 22 12 33 49**±1.4	**24.9N**±.37	**125.2E**±.26	**25**±22		**6**	**0-2**
JMA	IX 22 12 33 48.8±.2	24.90N±.04	125.21E±.02	31	3.4		¶97ix3278
ISC	**IX 23 01 01 23**±1.4	**25.8N**±.30	**125.8E**±.29	**11**		**5**	**1-2**
JMA	IX 23 01 01 22.4±.2	25.85N±.03	125.75E±.03	11	3.4		¶97ix3349
ISC	**IX 23 07 59 59**±1.2	**24.3N**±.13	**123.7E**±.10	**15**±11		**6**	**0-2**
JMA	IX 23 07 59 59.6±.0	24.35N±.01	123.73E±.00	14±1	3.5		¶97ix3392
ISC	Poorly determined						
JMA	Felt I=II J1						
ISC	**IX 24 07 44 07**±9.6	**23.6N**±.76	**124.1E**±.24	**36**		**5**	**1-1**
JMA	IX 24 07 44 04.6±.4	23.47N±.03	124.15E±.02	36	3.2		¶97ix3543
ISC	**IX 25 12 37 23**±2.0	**24.7N**±.30	**123.8E**±.14	**64**		**5**	**0-1**
JMA	IX 25 12 37 22.5±.2	24.68N±.02	123.79E±.01	64±3			¶97ix3739
ISC	**IX 26 07 25 08**±2.8	**24.6N**±.46	**123.0E**±.23	**91**		**5**	**0-2**
JMA	IX 26 07 25 07.9±.2	24.65N±.02	123.01E±.01	91±2			¶97ix3906
JMA	**IX 26 13 44 44.0**±.2	**24.99N**±.05	**125.63E**±.04	**53**	**3.2**		¶97ix4024
ISC	**IX 27 05 41 38**±4.2	**24.2N**±.21	**125.2E**±.25	**9**		**5**	**1-1**
JMA	IX 27 05 41 38.0±.4	24.18N±.02	125.22E±.02	9	3.3		¶97ix4262
ISC	**IX 27 07 07 22**±11	**24.5N**±.52	**125.5E**±.45	**3**±56		**6**	**0-2**
JMA	IX 27 07 07 24.5±.2	24.68N±.02	125.39E±.01	19±1	2.9		¶97ix4283
ISC	Poorly determined						
ISC	**IX 28 08 04 39**±1.2	**23.9N**±.10	**123.6E**±.11	**40**±11	**3.7b**	**15**	**0-79**
EIDC	IX 28 08 04 35.7	23.7N	122.8E	0	3.7b		¶97ix4586
JMA	IX 28 08 04 39.6±.4	23.95N±.04	123.59E±.01	34±2	4.0		
ISC	**IX 29 22 03 42**±1.3	**25.2N**±.33	**125.8E**±.24	**79**±31		**13**	**1-5**
JMA	IX 29 22 03 41.9±.3	25.11N±.07	125.88E±.06	79			¶97ix5039
JMA	**X 01 05 16 58.3**±.3	**24.62N**±.06	**123.00E**±.02	**91**±3	**2.4**		¶97x0034
JMA	**X 01 05 44 43.2**±.4	**24.92N**±.06	**123.05E**±.02	**111**±4			¶97x0036
JMA	**X 01 21 57 08.4**±.2	**24.70N**±.04	**123.19E**±.01	**92**±3			¶97x0161
ISC	**X 02 06 26 09**±3.7	**24.0N**±.39	**123.2E**±.19	**44**		**6**	**0-4**
JMA	X 02 06 26 08.3±.4	23.92N±.03	123.17E±.02	44±4	3.9		¶97x0223
ISC	**X 02 17 27 30**±1.1	**24.0N**±.10	**123.5E**±.10	**47**±10	**3.7b**,3.3s	**16**	**0-79**
JMA	X 02 17 27 31.3±.3	23.98N±.02	123.58E±.01	29±2	4.0		¶97x0320
NEIC	X 02 17 27 36.2	24.13N	123.89E	106			
EIDC	X 02 17 27 36.2	24.1N	123.9E	87	3.4b,3.4L		
NEIC	Poor solution.						
JMA	**X 03 22 32 18.5**±.3	**23.33N**±.02	**123.02E**±.01	**70**	**2.8**		¶97x0536
JMA	**X 04 02 41 09.1**±.1	**24.50N**±.01	**123.28E**±.00	**63**±1	**2.1**		¶97x0562
JMA	**X 04 02 45 34.2**±.8	**25.13N**±.06	**125.28E**±.03	**39**	**3.2**		¶97x0563
JMA	**X 04 10 42 52.1**±.3	**23.39N**±.02	**124.50E**±.01	**48**	**3.3**		¶97x0629
ISC	**X 04 19 08 06**±8.0	**25.5N**±.77	**125.4E**±.72	**155**±120		**6**	**1-2**
JMA	X 04 19 08 08.4±.4	25.82N±.04	125.05E±.03	98			¶97x0708
ISC	**X 05 12 40 36**±11	**23.7N**±.71	**125.3E**±.59	**41**		**4**	**1-1**
JMA	X 05 12 40 35.6±.1	23.68N±.01	125.31E±.01	41	2.9		¶97x0865
ISC	Poorly determined						
ISC	**X 06 00 08 28**±3.0	**25.2N**±.36	**125.4E**±.31	**20**±38		**5**	**0-2**
JMA	X 06 00 08 27.8±.2	25.26N±.02	125.36E±.02	25	3.5		¶97x0956
ISC	Poorly determined						
ISC	**X 06 00 20 25**±3.8	**24.9N**±.55	**123.3E**±.26	**130**		**4**	**1-1**
JMA	X 06 00 20 24.8±.3	24.95N±.04	123.32E±.02	130±4			¶97x0958
ISC	Poorly determined						
ISC	**X 06 06 24 24**±3.8	**24.0N**±.45	**123.6E**±.14	**27**		**4**	**0-1**
JMA	X 06 06 24 23.9±.4	24.00N±.03	123.57E±.01	27±3	2.9		¶97x1008
ISC	Poorly determined						
ISC	**X 06 10 56 46**±1.1	**25.1N**±.12	**125.5E**±.11	**22**±12	**3.9b**	**13**	**0-49**
JMA	X 06 10 56 44.8±.2	25.22N±.02	125.41E±.02	19	3.7		¶97x1031
EIDC	X 06 10 58 30.3	12.4N	128.4E	0	3.8b		
ISC	**X 06 11 25 53**±1.6	**25.2N**±.15	**125.3E**±.17	**4**		**5**	**0-2**
JMA	X 06 11 25 53.9±.8	25.23N±.04	125.32E±.04	4	3.0		¶97x1033
ISC	Poorly determined						
ISC	**X 07 12 25 06**±3.0	**25.8N**±.33	**125.2E**±.36	**71**		**4**	**1-2**
JMA	X 07 12 25 06.8±.3	25.73N±.03	125.24E±.03	71	2.9		¶97x1249
ISC	Poorly determined						
JMA	**X 08 07 05 57.5**±.3	**24.63N**±.03	**123.20E**±.01	**64**±3	**2.4**		¶97x1365
JMA	**X 08 10 24 03.3**±.2	**24.87N**±.03	**125.26E**±.02	**20**	**2.9**		¶97x1392
ISC	**X 09 14 42 27**±2.8	**24.0N**±.29	**124.9E**±.14	**51**		**7**	**1-3**
JMA	X 09 14 42 26.1±.4	23.90N±.02	124.98E±.02	51	3.1		¶97x1595
ISC	**X 10 05 55 52**±6.4	**24.9N**±.51	**123.2E**±.29	**30**		**4**	**1-1**
JMA	X 10 05 55 52.0±.3	24.92N±.02	123.25E±.01	30	3.2		¶97x1701
ISC	Poorly determined						
ISC	**X 10 07 31 22**±1.5	**24.8N**±.49	**125.1E**±.31	**17**±19		**5**	**0-2**
JMA	X 10 07 31 21.7±.3	24.66N±.04	125.22E±.03	24	2.9		¶97x1715
ISC	Poorly determined						
JMA	**X 10 17 00 34.7**±.3	**23.88N**±.02	**124.89E**±.01	**60**±4	**2.7**		¶97x1775
ISC	**X 11 02 13 03**±2.4	**24.7N**±.34	**124.3E**±.16	**59**		**4**	**0-1**
JMA	X 11 02 13 02.6±.3	24.76N±.03	124.25E±.02	59±4	2.9		¶97x1830
ISC	Poorly determined						
ISC	**X 11 04 22 56**±3.0	**24.8N**±.43	**123.4E**±.18	**83**		**4**	**1-1**
JMA	X 11 04 22 55.8±.2	24.79N±.02	123.44E±.01	83±3	3.0		¶97x1845
ISC	Poorly determined						
ISC	**X 11 09 32 18**±11	**24.7N**±.45	**125.4E**±.84	**23**		**4**	**0-2**
JMA	X 11 09 32 13.4±.8	24.52N±.03	125.71E±.05	23	3.2		¶97x1873
ISC	Poorly determined						
JMA	**X 12 00 42 55.2**±.5	**24.59N**±.05	**125.19E**±.04	**32**	**3.0**		¶97x1965
ISC	**X 12 14 40 26**±1.7	**24.7N**±.34	**124.6E**±.21	**55**±31		**6**	**0-3**
JMA	X 12 14 40 26.1±.2	24.75N±.03	124.63E±.02	53±3	3.0		¶97x2057
ISC	**X 13 21 03 06**±2.4	**24.4N**±.20	**124.9E**±.16	**16**		**4**	**0-1**
JMA	X 13 21 03 06.0±.2	24.37N±.01	124.90E±.01	16	2.8		¶97x2284
ISC	Poorly determined						
JMA	**X 15 09 39 45.0**±.2	**24.85N**±.04	**125.65E**±.02	**45**	**2.8**		¶97x2600
ISC	**X 16 12 09 43**±3.1	**23.70N**±.059	**125.37E**±.056	**5**±21	**3.9b**,3.4s	**32**	**1-80**
EIDC	X 16 12 09 45.1	23.8N	125.3E	0	3.9b,4.0L		¶97x2833
BJI	X 16 12 09 47.6	24.13N	124.95E	5	3.5L,4.5b		
NEIC	X 16 12 09 48.0	23.80N	125.29E	33	4.0b		
JMA	X 16 12 09 48.7±.3	23.79N±.02	125.19E±.01	58	4.0		
NEIC	Less reliable solution.						
ISC	**X 17 06 18 10**±10	**23.7N**±.85	**124.1E**±.28	**36**		**4**	**0-1**
JMA	X 17 06 18 07.6±.5	23.50N±.03	124.16E±.02	36	2.8		¶97x2936
ISC	Poorly determined						
ISC	**X 18 12 42 40**±2.0	**24.5N**±.33	**123.1E**±.18	**63**		**5**	**0-2**
JMA	X 18 12 42 40.1±.3	24.51N±.03	123.05E±.01	63±2	3.4		¶97x3159
TAP	X 18 12 42 40.4	24.41N	122.88E	17	3.5L		
JMA	**X 18 18 22 17.9**±.5	**24.95N**±.04	**123.80E**±.03	**76**	**2.9**		¶97x3210
ISC	**X 18 20 05 48**±5.4	**24.2N**±.60	**124.8E**±.37	**59**±58		**5**	**0-2**
JMA	X 18 20 05 46.5±.5	24.07N±.04	124.92E±.03	64	3.2		¶97x3226
ISC	Poorly determined						
ISC	**X 19 18 29 04**±2.4	**24.4N**±.18	**124.9E**±.16	**13**		**4**	**0-1**
JMA	X 19 18 29 04.1±.3	24.36N±.02	124.90E±.01	13	3.0		¶97x3379
ISC	Poorly determined						
ISC	**X 20 14 30 37**±1.3	**23.9N**±.15	**123.3E**±.14	**70**	**3.0b**	**11**	**1-48**
TAP	X 20 14 30 28.2	23.20N	122.91E	18	4.2L		¶97x3517
JMA	X 20 14 30 29.6±.3	23.26N±.02	123.03E±.01	70	4.1		
EIDC	X 20 14 31 10.1	25.2N	122.4E	507	2.3b		
JMA	**X 21 11 09 07.0**±.3	**23.01N**±.02	**123.18E**±.02	**63**	**2.9**		¶97x3646
TAP	X 21 11 09 06.4	23.02N	122.76E	4	3.2L		
ISC	**X 21 15 44 59**±3.8	**24.0N**±.45	**123.6E**±.13	**27**		**5**	**0-2**
JMA	X 21 15 44 59.5±.3	23.98N±.03	123.58E±.01	27±2	3.6		¶97x3673
ISC	Poorly determined						
ISC	**X 23 06 19 11**±1.4	**24.4N**±.13	**123.79E**±.092	**8**		**4**	**0-1**
JMA	X 23 06 19 11.4±.1	24.41N±.01	123.80E±.01	8±2	2.9		¶97x3934
ISC	Poorly determined						

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
JMA	**X 23 06 38 08.9**±.4	**23.21N**±.02	**124.03E**±.02	**43**	**2.9**		¶97x3937
JMA	**X 24 16 53 49.4**±.5	**24.76N**±.04	**124.06E**±.03	**61**	**2.1**		¶97x4198
ISC	**X 24 19 10 07**±1.4	**24.4N**±.28	**123.5E**±.13	**48**		**4**	**0-1**
JMA	X 24 19 10 06.9±.4	24.41N±.04	123.48E±.02	48±5	2.8		¶97x4212
ISC	Poorly determined						
ISC	**X 25 06 45 43**±1.5	**24.5N**±.14	**123.74E**±.092	**7**		**4**	**0-1**
JMA	X 25 06 45 43.9±.1	24.45N±.01	123.75E±.01	7±2	3.2		¶97x4288
ISC	Poorly determined						
JMA	Felt I=II J1						
ISC	**X 25 14 07 14**±1.4	**24.7N**±.19	**123.5E**±.14	**69**		**6**	**1-3**
JMA	X 25 14 07 14.4±.2	24.65N±.02	123.51E±.01	69±3	3.4		¶97x4331
ISC	**X 25 14 09 04**±2.2	**24.6N**±.38	**123.5E**±.15	**69**		**5**	**1-2**
JMA	X 25 14 09 04.0±.2	24.64N±.02	123.50E±.01	69±2	3.2		¶97x4334
ISC	Poorly determined						
ISC	**X 26 00 21 18**±12	**24.0N**±.78	**123.0E**±.69	**11**		**4**	**0-2**
JMA	X 26 00 21 16.8±.4	23.94N±.02	122.93E±.02	11±4	3.1		¶97x4391
ISC	Poorly determined						
ISC	**X 26 14 10 20**±1.4	**24.3N**±.14	**125.2E**±.10	**39**±14	**3.7b**	**12**	**1-80**
JMA	X 26 14 10 19.3±.5	24.25N±.03	125.24E±.03	39	3.7		¶97x4474
BJI	X 26 14 10 20.6	24.30N	125.30E	45			
EIDC	X 26 14 10 31.5	24.6N	126.4E	143	3.4b		
JMA	**X 26 14 18 47.3**±.4	**24.26N**±.02	**125.16E**±.02	**4**±3	**2.9**		¶97x4476
JMA	**X 27 01 23 40.0**±.5	**24.23N**±.02	**123.45E**±.03	**20**±3	**3.0**		¶97x4550
JMA	**X 28 04 20 14.2**±.4	**24.94N**±.03	**123.30E**±.01	**23**	**3.0**		¶97x4701
ISC	**X 28 04 28 16**±3.6	**24.8N**±.30	**123.3E**±.15	**18**		**4**	**1-1**
JMA	X 28 04 28 15.7±.4	24.90N±.02	123.29E±.01	18	3.5		¶97x4704
ISC	Poorly determined						
ISC	**X 28 04 34 58**±4.0	**24.9N**±.31	**123.3E**±.16	**24**		**4**	**1-1**
JMA	X 28 04 34 57.5±.5	24.94N±.03	123.27E±.01	24	3.6		¶97x4706
ISC	Poorly determined						
JMA	**X 28 17 37 41.6**±.3	**24.00N**±.02	**123.39E**±.01	**25**±3	**2.8**		¶97x4793
JMA	**X 28 21 32 29.4**±.3	**23.87N**±.02	**124.98E**±.01	**61**	**2.7**		¶97x4819
JMA	**X 30 15 13 51.1**±.3	**24.53N**±.03	**123.41E**±.01	**60**±3	**2.5**		¶97x5058
ISC	**X 31 13 00 07.7**±.68	**23.93N**±.049	**123.41E**±.041	**41**±5.8	**4.9b,4.9s**	**134**	**0-168**
JMA	X 31 13 00 06.4±.7	23.85N±.04	123.31E±.04	24	5.4		¶97x5187
BJI	X 31 13 00 07.0	23.96N	123.45E	39	4.3L,4.8b		
NEIC	X 31 13 00 08.7	23.98N	123.47E	51	5.1b,4.9s		
MOS	X 31 13 00 09.5	24.1N	123.4E	54	5.3b		
EIDC	X 31 13 00 11.0	24.1N	123.4E	56	4.4b,4.8s		
JMA	Felt I=II J1						
BJI	Ms5.0						
JMA	**X 31 13 57 57.4**±.1	**23.84N**±.00	**123.36E**±.00	**25**±1	**3.1**		¶97x5192
JMA	**X 31 19 26 06.8**±.3	**23.89N**±.02	**123.40E**±.02	**26**±2	**3.9**		¶97x5216
JMA	**X 31 19 49 33.7**±.3	**23.87N**±.02	**123.39E**±.02	**26**±2	**3.6**		¶97x5221
JMA	**XI 01 01 31 59.9**±.4	**24.89N**±.03	**123.38E**±.01	**28**	**2.8**		¶97xi0007
JMA	**XI 01 01 38 43.9**±.5	**24.85N**±.04	**123.38E**±.02	**24**	**2.8**		¶97xi0008
ISC	**XI 02 14 58 32**±1.6	**25.0N**±.32	**125.1E**±.22	**31**±22		**6**	**0-2**
JMA	XI 02 14 58 31.2±.1	24.92N±.03	125.20E±.02	47	3.4		¶97xi0283
JMA	**XI 03 04 01 51.8**±.8	**24.93N**±.05	**123.29E**±.02	**17**	**2.9**		¶97xi0399
ISC	**XI 03 09 24 05.7**±.45	**24.07N**±.038	**123.65E**±.044	**50**±4.8	**4.5b,4.0s**	**71**	**0-91**
JMA	XI 03 09 24 06.6±.3	24.02N±.03	123.65E±.01	44±2	4.5		¶97xi0444
EIDC	XI 03 09 24 11.7	24.1N	123.6E	89	4.0b,4.0s		
NEIC	XI 03 09 24 12.9	24.15N	123.73E	117	4.5b		
BJI	XI 03 09 24 15.0	24.44N	123.22E	116	4.6b		
JMA	Felt I=III J1						
NEIC	Felt I=V MM.						
JMA	**XI 03 13 19 56.1**±.7	**24.91N**±.04	**123.29E**±.02	**19**	**2.8**		¶97xi0470
ISC	**XI 03 13 50 07.2**±.58	**24.13N**±.065	**123.62E**±.065	**52**±6.3	**4.1b**	**29**	**0-84**
BJI	XI 03 13 50 07.3	24.13N	123.58E	38	3.7L,4.4b		¶97xi0476
NEIC	XI 03 13 50 07.3	24.22N	123.69E	53	3.9b		
JMA	XI 03 13 50 07.8±.2	24.04N±.02	123.65E±.01	44±1	4.1		
EIDC	XI 03 13 50 09.4	24.2N	123.7E	56	3.9b		
NEIC	Felt I=III MM, Less reliable solution.						
NEIC	Felt I=II J1 in the epicentral area.						
ISC	**XI 03 22 30 21**±3.4	**24.8N**±.28	**123.4E**±.14	**22**		**4**	**1-1**
JMA	XI 03 22 30 20.7±.3	24.87N±.02	123.37E±.01	22	3.1		¶97xi0528
ISC	Poorly determined						
ISC	**XI 04 01 33 36**±6.0	**24.0N**±.59	**123.3E**±.26	**22**		**4**	**0-1**
JMA	XI 04 01 33 36.8±.3	24.04N±.02	123.29E±.01	22±3	3.6		¶97xi0555
ISC	Poorly determined						
JMA	**XI 04 03 49 05.0**±.4	**24.89N**±.03	**123.38E**±.01	**24**	**2.8**		¶97xi0569
ISC	**XI 04 08 59 20**±1.5	**24.2N**±.26	**123.6E**±.11	**24**±22		**6**	**0-4**
JMA	XI 04 08 59 19.5±.2	24.06N±.02	123.64E±.01	38±2	3.5		¶97xi0605
ISC	**XI 06 22 13 36**±4.4	**24.2N**±.23	**125.1E**±.25	**3**		**4**	**1-1**
JMA	XI 06 22 13 36.4±.4	24.25N±.02	125.14E±.03	3±4	2.9		¶97xi1043
ISC	Poorly determined						
JMA	**XI 07 05 59 46.2**±.2	**24.55N**±.02	**124.15E**±.01	**86**±1			¶97xi1083
JMA	**XI 08 18 51 41.1**±.2	**24.80N**±.05	**125.29E**±.03	**48**	**2.8**		¶97xi1337
ISC	**XI 09 05 48 57**±4.8	**24.9N**±.52	**123.2E**±.25	**82**		**4**	**1-1**
JMA	XI 09 05 48 57.5±.2	24.89N±.03	123.22E±.01	82±3	3.0		¶97xi1407
ISC	Poorly determined						
ISC	**XI 09 06 30 24**±1.9	**25.2N**±.45	**125.7E**±.33	**83**±34		**9**	**0-4**
JMA	XI 09 06 30 24.8±.2	25.38N±.03	125.41E±.02	58	3.4		¶97xi1411
JMA	**XI 11 02 28 19.4**±.3	**24.89N**±.02	**123.26E**±.01	**25**	**2.8**		¶97xi1715
ISC	**XI 11 14 53 43**±6.3	**24.0N**±.61	**123.3E**±.27	**16**		**4**	**0-1**
JMA	XI 11 14 53 43.3±.4	24.06N±.03	123.31E±.01	16±4	2.9		¶97xi1810
ISC	Poorly determined						
ISC	**XI 11 16 40 50**±1.1	**24.4N**±.15	**123.3E**±.13	**47**±12	**3.4b**	**8**	**0-49**
JMA	XI 11 16 40 43.2±.9	25.00N±.06	123.65E±.03	6	3.3		¶97xi1824
EIDC	XI 11 16 40 45.3	24.4N	123.2E	0	3.4b,3.8L		
TAP	XI 11 16 40 54.5	25.63N	121.47E	127	3.4L		
ISC	**XI 11 16 42 35**±1.4	**24.3N**±.15	**123.64E**±.091	**1**±23		**6**	**0-3**
JMA	XI 11 16 42 36.3±.3	24.26N±.02	123.64E±.02	8±4	3.9		¶97xi1825
ISC	**XI 11 17 06 36**±3.8	**25.0N**±.30	**123.6E**±.13	**15**		**4**	**1-1**
JMA	XI 11 17 06 35.6±.6	24.98N±.04	123.63E±.02	15	3.2		¶97xi1829
ISC	Poorly determined						
ISC	**XI 15 04 25 00**±8.2	**24.3N**±.47	**125.4E**±.61	**41**		**4**	**1-1**
JMA	XI 15 04 25 00.4±.4	24.23N±.02	125.37E±.02	41	3.1		¶97xi2415
ISC	Poorly determined						
ISC	**XI 17 09 25 16**±1.5	**24.3N**±.28	**123.5E**±.13	**43**		**4**	**0-1**
JMA	XI 17 09 25 16.3±.2	24.27N±.02	123.51E±.01	43±2	3.5		¶97xi2771
ISC	Poorly determined						
ISC	**XI 17 15 29 27.2**±.81	**24.87N**±.095	**123.4E**±.12	**114**±7.3	**4.0b**	**13**	**1-59**
EIDC	XI 17 15 29 17.2	25.1N	125.5E	0	4.0b		¶97xi2820
JMA	XI 17 15 29 29.6±.2	24.86N±.03	123.47E±.01	91			
ISC	**XI 20 21 22 22**±2.1	**24.7N**±.31	**123.8E**±.14	**60**		**5**	**0-1**
JMA	XI 20 21 22 21.6±.2	24.67N±.02	123.78E±.01	60±3	2.8		¶97xi3534
ISC	Poorly determined						
JMA	**XI 21 04 26 53.9**±.3	**24.28N**±.02	**124.91E**±.01	**14**±4	**2.8**		¶97xi3580
JMA	**XI 22 01 03 06.4**±.5	**24.96N**±.05	**125.02E**±.02	**21**±4	**2.9**		¶97xi3769
ISC	**XI 24 02 48 21**±4.1	**25.0N**±.56	**123.4E**±.25	**130**		**4**	**1-1**
JMA	XI 24 02 48 20.8±.3	25.01N±.04	123.42E±.02	130			¶97xi4254
ISC	Poorly determined						
ISC	**XI 24 19 34 28**±2.2	**25.1N**±.29	**125.2E**±.21	**23**±30		**6**	**0-2**
JMA	XI 24 19 34 27.8±.2	25.05N±.02	125.22E±.02	30	3.3		¶97xi4372
JMA	**XI 25 00 35 20.2**±.2	**23.95N**±.01	**123.58E**±.01	**38**±1	**3.0**		¶97xi4417
JMA	**XI 25 13 01 41.7**±.2	**24.76N**±.02	**123.39E**±.01	**69**±2	**2.5**		¶97xi4514
ISC	**XI 27 22 20 06**±1.5	**24.5N**±.14	**123.74E**±.093	**11**		**4**	**0-1**
JMA	XI 27 22 20 06.0±.2	24.47N±.02	123.74E±.01	11±3	2.8		¶97xi4946
ISC	Poorly determined						
ISC	**XI 28 14 28 07.6**±.65	**25.1N**±.13	**125.8E**±.11	**65**±9.6	**3.6b**	**12**	**1-66**
EIDC	XI 28 14 28 00.9	25.1N	125.5E	0	3.6b		¶97xi5100
NEIC	XI 28 14 28 03.7	25.08N	125.56E	33			
JMA	XI 28 14 28 07.7±.2	25.25N±.05	125.74E±.05	49	3.5		
NEIC	Single network solution.						
JMA	**XII 02 08 04 00.5**±.4	**24.02N**±.03	**123.13E**±.02	**26**±4	**3.7**		¶97xii0214
JMA	**XII 02 20 17 23.5**±.4	**24.87N**±.05	**125.77E**±.04	**36**	**3.5**		¶97xii0306
JMA	**XII 03 01 50 49.5**±.3	**24.91N**±.04	**125.76E**±.04	**37**±2	**3.2**		¶97xii0350
JMA	**XII 03 02 38 23.0**±.3	**24.89N**±.04	**125.74E**±.03	**38**	**3.3**		¶97xii0352
JMA	**XII 03 12 08 44.4**±.3	**24.33N**±.02	**123.51E**±.01	**18**±3	**2.8**		¶97xii0417
JMA	**XII 03 13 01 54.2**±.4	**24.02N**±.02	**123.12E**±.02	**20**±4	**2.9**		¶97xii0425
JMA	**XII 03 16 39 15.7**±.3	**24.69N**±.02	**123.88E**±.01	**60**±2	**2.8**		¶97xii0463
JMA	**XII 06 08 31 13.7**±.3	**24.98N**±.04	**123.25E**±.02	**142**			¶97xii1309
JMA	**XII 07 22 23 59.7**±.2	**24.42N**±.01	**123.79E**±.01	**1**±1	**2.8**		¶97xii1797
JMA	**XII 11 07 26 36.1**±.4	**24.85N**±.06	**124.90E**±.02	**40**	**2.9**		¶97xii2516
ISC	**XII 11 12 30 12**±1.6	**25.0N**±.30	**125.1E**±.19	**30**±21		**7**	**0-3**
JMA	XII 11 12 30 10.6±.2	25.13N±.02	125.06E±.01	24	3.6		¶97xii2561
ISC	**XII 11 21 38 56**±4.5	**25.0N**±.39	**124.9E**±.25	**10**±36		**5**	**0-2**
JMA	XII 11 21 38 56.2±.2	24.96N±.02	124.94E±.01	16	2.8		¶97xii2644
ISC	Poorly determined						
JMA	**XII 12 19 59 48.9**±.2	**24.60N**±.02	**125.20E**±.01	**26**±1	**2.8**		¶97xii2810
JMA	**XII 13 01 48 52.9**±.2	**24.78N**±.04	**125.36E**±.03	**30**±1	**2.8**		¶97xii2857
ISC	**XII 13 16 38 20**±4.0	**24.9N**±.56	**123.2E**±.26	**108**		**4**	**1-1**
JMA	XII 13 16 38 19.5±.3	24.91N±.04	123.23E±.02	108±4			¶97xii2978
ISC	Poorly determined						
ISC	**XII 16 02 28 57**±1.9	**24.7N**±.38	**124.8E**±.24	**57**±31		**6**	**0-2**
JMA	XII 16 02 28 57.3±.1	24.79N±.03	124.71E±.01	55±2	3.4		¶97xii3372
ISC	**XII 16 08 15 13**±1.4	**24.5N**±.25	**125.9E**±.18	**60**±45		**9**	**1-5**
JMA	XII 16 08 15 15.4±.5	24.77N±.07	125.64E±.05	71	3.6		¶97xii3414
ISC	**XII 16 21 21 04**±3.5	**24.7N**±.45	**125.3E**±.33	**20**		**4**	**0-2**
JMA	XII 16 21 21 03.4±.4	24.67N±.03	125.41E±.02	20±2	2.9		¶97xii3508
ISC	Poorly determined						
JMA	**XII 19 17 56 39.5**±.4	**24.37N**±.03	**124.91E**±.02	**29**	**2.8**		¶97xii4010
ISC	**XII 20 17 41 42**±1.1	**25.2N**±.21	**125.3E**±.18	**62**		**6**	**0-2**
JMA	XII 20 17 41 42.0±.1	25.26N±.02	125.29E±.02	62	3.4		¶97xii4141
ISC	**XII 21 11 16 55**±2.0	**24.4N**±.27	**124.7E**±.20	**25**		**4**	**0-1**
JMA	XII 21 11 16 55.9±.2	24.44N±.02	124.70E±.01	25	3.3		¶97xii4246
ISC	Poorly determined						
ISC	**XII 21 16 07 08**±1.5	**24.9N**±.13	**124.7E**±.11	**8**		**5**	**0-2**
JMA	XII 21 16 07 07.8±.2	24.99N±.01	124.72E±.01	8±2	3.2		¶97xii4274
EIDC	**XII 23 10 55 59.5**	**23.6N**	**123.6E**	**0**	**3.6b**		**8-69**
							¶97xii4586
EIDC	Origin time error = 12.45Error ellipse is semi−major=735.9km semi−minor=29.9km azimuth=94						
JMA	**XII 24 00 20 22.7**±.1	**24.09N**±.01	**123.44E**±.00	**11**±2	**3.0**		¶97xii4677
ISC	**XII 26 04 17 26**±4.3	**24.3N**±.23	**125.2E**±.25	**4**		**4**	**1-1**
JMA	XII 26 04 17 26.2±.5	24.27N±.02	125.17E±.03	4±5	3.2		¶97xii5042
ISC	Poorly determined						
ISC	**XII 26 14 40 51**±2.6	**24.2N**±.34	**123.3E**±.17	**14**		**4**	**0-1**
JMA	XII 26 14 40 51.3±.2	24.23N±.02	123.29E±.01	14±3	2.8		¶97xii5148
ISC	Poorly determined						

(247) South-east of Taiwan.

JMA	**VII 13 22 12 49.0**±.3	**22.85N**±.02	**123.69E**±.02	**69**			¶97vii2027
JMA	**X 12 21 56 01.5**±.6	**22.81N**±.04	**123.65E**±.04	**79**	**2.7**		¶97x2113
JMA	**XI 13 16 31 03.4**±.5	**22.86N**±.03	**124.31E**±.03	**32**	**3.0**		¶97xi2167
ISC	**XI 23 11 34 22**±9.9	**22.7N**±.73	**125.4E**±.30	**50**		**7**	**2-4**
JMA	XI 23 11 34 28.9±.3	23.20N±.02	125.10E±.01	50	3.9		¶97xi4106
JMA	**XII 26 16 38 54.7**±.4	**22.72N**±.03	**123.92E**±.03	**85**	**2.7**		¶97xii5173

SEISMIC REGION 22. PHILIPPINES.

(248) Philippine Islands region.

ISC	**VII 01 18 19 42.1**±.95	**19.1N**±.14	**121.4E**±.19	**33**	**3.6b**	**8**	**19-88**
EIDC	VII 01 18 19 38.9	19.1N	121.4E	0	3.7b,3.6L		¶97vii0124
NEIC	VII 01 18 19 42.2	19.12N	121.41E	33			
NEIC	Poor solution.						
ISC	**VII 01 18 24 23**±2.0	**19.07N**±.034	**121.16E**±.051	**20**±14	**4.7b,4.6s**	**115**	**4-173**
NEIC	VII 01 18 24 24.4	19.08N	121.20E	33	5.1b		¶97vii0126
BJI	VII 01 18 24 24.9	19.19N	121.10E	31	4.2L,4.6b		
HRVD	VII 01 18 24 26.5±.3	19.23N±.06	121.14E±.07	27±3.0			
EIDC	VII 01 18 24 28.1	19.1N	121.3E	49	4.4b,4.5s		
NEIC	Mw5.4(HRV).						
BJI	Ms4.6						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c57; Half duration: 1$\hat{s}$1. Moment tensor: Scale 10^{17}Nm; M_{rr}1.12±.07; $M_{\theta\theta}$0.12±.06; $M_{\phi\phi}$−1.25±.10; $M_{r\theta}$−0.70±.16; $M_{r\phi}$−0.78±.20; $M_{\theta\phi}$−0.41±.06. Principal Axes: T 1.58,Plg65°,Azm153°; N 0.11,Plg16°,Azm26°; P −1.69,Plg19°,Azm290°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S356°,δ29°,λ56°. NP2:ϕ_S213°,δ66°,λ107°.						
ISC	**VII 03 21 17 58.9**±.69	**15.08N**±.096	**122.6E**±.19	**33**	**4.2b**	**12**	**23-50**
EIDC	VII 03 21 17 55.6	15.1N	122.6E	0	4.0b,3.2s		¶97vii0453
NEIC	VII 03 21 17 58.9	15.08N	122.60E	33	4.5b		
NEIC	Less reliable solution.						
ISC	**VII 05 15 57 30**±2.2	**10.88N**±.077	**126.0E**±.17	**109**±20	**4.3b**	**28**	**4-147**
EIDC	VII 05 15 57 19.0	10.9N	125.9E	0	4.0b,3.1s		¶97vii0747
NEIC	VII 05 15 57 29.4	10.89N	126.04E	100	4.7b		
BJI	VII 05 15 57 30.5	10.90N	126.08E	120	4.2b		
NEIC	Less reliable solution.						
ISC	**VII 05 16 53 58.7**±.86	**6.9N**±.13	**127.6E**±.15	**33**	**3.7b**	**7**	**2-82**
BJI	VII 05 16 53 58.9	7.08N	127.70E	40	4.5b		¶97vii0755
NEIC	VII 05 16 53 59.1	6.87N	127.59E	33			
EIDC	VII 05 16 54 03.2	6.8N	127.3E	48	3.4b		
NEIC	Single network solution.						
ISC	**VII 09 13 43 19.2**±.83	**18.8N**±.11	**119.6E**±.34	**33**	**3.8b**	**10**	**20-156**
EIDC	VII 09 13 43 15.7	18.8N	119.5E	0	3.9b,3.6L		¶97vii1346
NEIC	VII 09 13 43 18.9	18.84N	119.60E	33			

NEIC Poor solution.
ISC VII 11 01 21 38.4±.63 **8.80N**±.080 **127.3E**±.17 **33** **4.1b** **14 2-95**
EIDC VII 11 01 21 35.5 8.8N 127.3E 0 4.1b,4.3L **¶97vii1604**
NEIC VII 11 01 21 38.3 8.80N 127.26E 33 4.5b
NEIC Less reliable solution.
ISC VII 12 23 06 05±2.2 **11.05N**±.094 **126.1E**±.20 **137**±21 **4.0b** **26 4-147**
EIDC VII 12 23 05 50.5 11.0N 126.0E 0 4.1b **¶97vii1883**
BJI VII 12 23 05 54.0 11.04N 126.06E 33 4.5b,4.3s
NEIC VII 12 23 05 54.0 11.07N 126.12E 33 4.4b
NEIC Less reliable solution.
ISC VII 14 11 10 24.7±.82 **7.4N**±.11 **127.3E**±.15 **33** **3.5b** **7 2-82**
NEIC VII 14 11 10 24.7 7.43N 127.33E 33 **¶97vii2113**
EIDC VII 14 11 10 26.9 7.4N 127.3E 38 3.5b,4.3L
NEIC Single network solution.
EIDC VII 17 11 13 40.2 **10.6N** **127.4E** **0** **3.7b** **31-79**
¶97vii2587
ISC VII 19 14 04 08±5.9 **19.8N**±.11 **121.6E**±.20 **41**±57 **3.9b** **9 18-87**
NEIC VII 19 14 04 07.4 19.83N 121.62E 33 4.5b **¶97vii2885**
EIDC VII 19 14 04 11.4 19.9N 121.7E 55 3.6b
NEIC Less reliable solution.
ISC VII 21 10 44 39±1.2 **10.20N**±.030 **126.19E**±.048 **63**±12 **4.9b** **162 3-165**
HRVD VII 21 10 44 35.7±.7 10.13N±.07 126.41E±.10 66±9.3 **¶97vii3232**
NEIC VII 21 10 44 38.2 10.20N 126.20E 56 5.0b,4.8s
BJI VII 21 10 44 38.4 10.27N 126.32E 60 5.1b,4.6s
MOS VII 21 10 44 38.5 10.1N 126.0E 60 5.5b,4.7s
EIDC VII 21 10 44 39.5 10.2N 126.2E 56 4.5b,4.5s
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c27; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.80±.51; $M_{\theta\theta}$0.62±.55; $M_{\phi\phi}$3.18±.87; $M_{r\theta}$−0.63±.64; $M_{r\phi}$3.48±.46; $M_{\theta\phi}$0.65±.61. Principal Axes: T 4.65,Plg22°,Azm276°; N 0.70, Plg9°,Azm182°; P −5.35,Plg66°,Azm70°. Best double couple: $M_0$5.0×10^{16}Nm, NP1:ϕ_S23°, δ25°,λ−67°. NP2:ϕ_S178°,δ67°,λ−100°.
NEIC Mw5.1(HRV).
ISC VII 22 22 53 42±1.7 **15.01N**±.031 **122.64E**±.060 **88**±17 **4.7b** **104 16-170**
EIDC VII 22 22 53 32.9 15.0N 122.6E 0 4.6b,3.9s **¶97vii3445**
BJI VII 22 22 53 35.9 14.76N 122.67E 40 4.5b
NEIC VII 22 22 53 36.2 15.03N 122.55E 33 5.1b
MOS VII 22 22 53 36.4 15.1N 122.6E 33 5.4b
ISC VII 22 23 00 48.1±.96 **15.2N**±.15 **123.9E**±.23 **33** **3.7b** **6 24-76**
EIDC VII 22 23 00 45.3 15.2N 123.8E 0 3.7b **¶97vii3446**
EIDC VII 23 11 04 22.0 **6.3N** **128.0E** **0** **3.7b** **27-40**
¶97vii3520
ISC VII 25 19 55 56±7.1 **20.8N**±.11 **121.5E**±.15 **21**±52 **3.9b**,3.9s **13 17-86**
EIDC VII 25 19 55 54.6 20.9N 121.5E 0 3.9b,3.8L **¶97vii3869**
NEIC VII 25 19 55 57.1 20.86N 121.43E 33 4.2b
BJI VII 25 19 55 59.6 21.16N 121.03E 5
NEIC Less reliable solution.
ISC VII 28 09 06 36.2±.92 **5.7N**±.16 **127.5E**±.50 **33** **3.8b** **8 26-91**
NEIC VII 28 09 06 37.1 5.69N 127.95E 33 3.9b **¶97vii4240**
EIDC VII 28 09 06 41.6 5.7N 128.0E 54 3.6b
NEIC Poor solution.
EIDC VII 29 01 41 47.7 **10.5N** **127.2E** **0** **3.8b** **31-79**
¶97vii4361
EIDC VII 29 10 00 10.3 **6.4N** **127.1E** **0** **3.7b** **27-40**
¶97vii4419
EIDC VIII 01 19 27 44.6 **5.3N** **127.5E** **0** **3.7b** **26-83**
¶97viii0105
ISC VIII 08 10 21 24±1.2 **13.62N**±.067 **120.0E**±.12 **50**±12 **4.1b**,3.2s **18 1-79**
EIDC VIII 08 10 21 19.6 13.7N 120.2E 0 4.0b,3.2s **¶97viii1092**
NEIC VIII 08 10 21 22.5 13.69N 120.18E 33 4.2b
NEIC Less reliable solution.
ISC VIII 09 07 34 32.4±.84 **13.34N**±.091 **119.9E**±.14 **33** **4.1b** **8 1-50**
EIDC VIII 09 07 34 28.0 13.7N 120.1E 0 3.8b **¶97viii1216**
ISC VIII 11 15 14 26.8±.45 **10.29N**±.056 **126.5E**±.11 **33** **4.2b**,3.1s **30 2-146**
EIDC VIII 11 15 14 23.2 10.2N 126.4E 0 4.1b,3.1s **¶97viii1577**
NEIC VIII 11 15 14 26.8 10.23N 126.32E 33 4.5b
BJI VIII 11 15 14 27.2 10.45N 127.09E 33 4.4b
NEIC Less reliable solution.
ISC VIII 17 11 38 48±6.4 **13.2N**±.56 **125.1E**±.98 **33** **4.0b** **10 2-49**
EIDC VIII 17 11 38 40.7 13.7N 124.6E 0 4.0b **¶97viii2534**
ISC VIII 17 15 06 12±1.1 **6.3N**±.31 **127.2E**±.81 **33** **3.5b** **6 2-54**
EIDC VIII 17 15 06 09.4 6.4N 127.6E 0 3.7b **¶97viii2552**
ISC VIII 18 04 18 32.7±.83 **9.50N**±.094 **127.0E**±.13 **33** **3.7b** **9 1-88**
EIDC VIII 18 04 18 29.1 9.4N 126.6E 0 3.6b **¶97viii2621**
NEIC VIII 18 04 18 32.6 9.34N 126.77E 33 4.2b
NEIC Poor solution.
ISC VIII 18 08 08 44±7.6 **10.3N**±.11 **126.6E**±.23 **20**±55 **3.8b** **13 2-118**
EIDC VIII 18 08 08 43.1 10.3N 126.6E 0 3.8b **¶97viii2642**
NEIC VIII 18 08 08 45.6 10.30N 126.60E 33
NEIC Poor solution.
ISC VIII 19 09 09 40±1.0 **12.6N**±.13 **126.1E**±.17 **33** **4.3b** **12 2-47**
EIDC VIII 19 09 09 37.5 12.6N 126.2E 0 4.2b **¶97viii2787**
ISC VIII 19 09 17 21.0±.65 **12.69N**±.077 **126.1E**±.12 **33** **4.1b**,3.2s **14 2-47**
EIDC VIII 19 09 17 18.4 12.6N 126.2E 0 3.9b,3.2s **¶97viii2788**
NEIC VIII 19 09 17 21.3 12.68N 126.20E 33 4.3b
NEIC Less reliable solution.
ISC VIII 19 17 30 36±2.7 **12.71N**±.097 **126.0E**±.21 **39**±26 **3.8b** **18 2-149**
EIDC VIII 19 17 30 30.8 12.6N 126.1E 0 3.7b **¶97viii2844**
NEIC VIII 19 17 30 33.9 12.55N 126.07E 33 4.2b
NEIC Less reliable solution.
ISC VIII 20 12 28 21±1.9 **12.2N**±.21 **126.2E**±.18 **33** **3.9b** **6 2-46**
EIDC VIII 20 12 28 19.6 12.3N 127.3E 0 3.5b **¶97viii2962**
ISC VIII 22 22 50 18.6±.84 **12.54N**±.097 **126.2E**±.17 **33** **3.9b** **8 2-48**
EIDC VIII 22 22 50 15.6 12.6N 126.4E 0 3.7b **¶97viii3299**
NEIC VIII 22 22 50 18.6 12.60N 126.41E 33 4.7b
NEIC Less reliable solution.
ISC VIII 24 14 34 22±1.3 **20.13N**±.062 **121.3E**±.12 **61**±13 **4.2b** **25 2-87**
EIDC VIII 24 14 34 17.1 20.0N 121.4E 0 4.0b,3.8s **¶97viii3548**
NEIC VIII 24 14 34 19.7 20.11N 121.34E 33 4.5b
BJI VIII 24 14 34 20.3 20.40N 120.92E 9 4.1b
ISC VIII 25 03 02 20±4.3 **20.7N**±.23 **120.1E**±.79 **74**±25 **4.0b** **8 2-87**
TAP VIII 25 03 02 09.3 21.65N 120.19E 38 4.2L **¶97viii3632**
EIDC VIII 25 03 02 21.3 21.1N 124.8E 0 4.0b,3.8s
ISC VIII 27 15 02 46.0±.35 **5.92N**±.042 **127.12E**±.075 **71** **4.2b** **48 2-162**
BJI VIII 27 15 02 44.4 5.86N 127.29E 71 4.4b **¶97viii4006**
EIDC VIII 27 15 02 45.1 6.0N 127.4E 46 4.0b,4.9L
NEIC VIII 27 15 02 45.9 5.98N 127.26E 70 4.4b
ISC VIII 29 04 44 09.5±.92 **19.61N**±.068 **121.3E**±.19 **61**±9.4 **3.9b** **18 1-115**
NEIC VIII 29 04 44 02.1 19.57N 120.86E 10 4.2b **¶97viii4235**
EIDC VIII 29 04 44 02.6 19.5N 120.8E 0 4.0b,3.5s
NEIC Poor solution.
ISC VIII 30 06 21 37.9±.75 **20.07N**±.041 **121.42E**±.081 **53**±7.6 **4.6b,3.9s** **49 1-170**
EIDC VIII 30 06 21 32.4 20.1N 121.6E 0 4.4b,4.0s **¶97viii4440**
NEIC VIII 30 06 21 35.7 20.09N 121.52E 33 4.9b
BJI VIII 30 06 21 36.3 20.24N 120.98E 5 4.5b,4.2s
ISC IX 05 04 03 04±3.9 **7.53N**±.052 **127.5E**±.11 **23**±29 **4.4b** **38 1-119**
EIDC IX 05 04 03 02.3 7.5N 127.6E 0 4.4b,4.4L **¶97ix0688**
BJI IX 05 04 03 05.4 7.50N 127.60E 33 4.8b
NEIC IX 05 04 03 05.4 7.51N 127.56E 33 4.5b
EIDC IX 09 22 22 34.5 **12.2N** **127.3E** **0** **3.7b** **¶97ix1447**
ISC IX 12 15 25 09±3.1 **6.0N**±.12 **127.3E**±.38 **89**±32 **3.8b** **10 2-90**
NEIC IX 12 15 25 09.9 5.97N 127.14E 100 **¶97ix1830**
EIDC IX 12 15 25 11.2 6.0N 127.2E 94 3.7b
NEIC Single network solution.
EIDC IX 14 02 11 21.2 **13.4N** **125.6E** **0** **3.5b** **¶97ix2061**
ISC IX 14 09 52 52±2.2 **6.10N**±.095 **127.6E**±.19 **39**±20 **4.4b** **25 2-162**
NEIC IX 14 09 52 54.1 6.03N 127.45E 55 4.6b **¶97ix2102**
EIDC IX 14 09 52 55.3 6.1N 127.4E 52 4.1b
ISC IX 17 15 26 54±1.4 **19.29N**±.025 **121.24E**±.043 **30**±10 **5.1b,5.0s** **170 1-173**
NEIC IX 17 15 26 53.9 19.27N 121.23E 33 5.3b **¶97ix2527**
MOS IX 17 15 26 54.2 19.3N 121.2E 33 5.4b,5.0s
EIDC IX 17 15 26 54.4 19.2N 121.3E 25 4.8b,4.0L
HRVD IX 17 15 26 58.1±.5 19.70N±.09 121.01E±.10 33±4.4
BJI IX 17 15 26 58.1 19.73N 120.89E 33 4.4L,5.1b
NEIC Mw5.6(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c32; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}1.99±.17; $M_{\theta\theta}$−0.19±.18; $M_{\phi\phi}$−1.81±.25; $M_{r\theta}$−0.30±.37; $M_{r\phi}$−1.23±.42; $M_{\theta\phi}$−1.25±.19. Principal Axes: T 2.36,Plg73°,Azm84°; N 0.44, Plg9°,Azm205°; P −2.80,Plg14°,Azm297°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S40°, δ32°,λ107°. NP2:ϕ_S200°,δ60°,λ80°.
BJI Ms5.1
ISC IX 18 16 34 03±1.4 **19.33N**±.097 **121.2E**±.15 **51**±16 **3.6b** **13 1-115**
EIDC IX 18 16 33 58.7 19.3N 121.2E 0 3.7b,3.7L **¶97ix2685**
NEIC IX 18 16 34 01.1 19.31N 121.21E 33
NEIC Single network solution.
ISC IX 18 21 37 20±1.0 **8.3N**±.13 **127.2E**±.16 **33** **4.0b** **10 1-88**
EIDC IX 18 21 37 17.3 7.7N 124.0E 0 4.0b **¶97ix2717**
ISC IX 19 10 46 04±1.6 **20.3N**±.20 **122.6E**±.19 **33** **3.9b** **8 1-55**
EIDC IX 19 10 46 05.8 19.7N 123.0E 0 4.0b **¶97ix2782**
ISC IX 21 13 57 24.9±.86 **19.88N**±.072 **121.8E**±.22 **68**±9.8 **3.8b** **13 1-55**
EIDC IX 21 13 57 18.4 19.7N 121.2E 0 3.9b **¶97ix3110**
ISC IX 26 20 44 31.5±.86 **10.03N**±.031 **126.04E**±.067 **75**±7.6 **4.8b** **119 2-165**
BJI IX 26 20 44 21.0 9.42N 126.35E 33 5.0b,4.5s **¶97ix4138**
MOS IX 26 20 44 26.0 10.0N 126.2E 33 5.5b
NEIC IX 26 20 44 27.1 10.06N 126.02E 33 5.0b,4.1s
EIDC IX 26 20 44 28.8 9.9N 126.0E 37 4.6b,4.2s
HRVD IX 26 20 44 34.4±.1 10.14N±.01 126.31E±.01 38±1.1
NEIC Mw5.1(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c16; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.94±.38; $M_{\theta\theta}$0.34±.56; $M_{\phi\phi}$−4.28±.64; $M_{r\theta}$1.71±1.09; $M_{r\phi}$0.52±.79; $M_{\theta\phi}$−0.41±.38. Principal Axes: T 4.64,Plg68°,Azm355°; N −0.26,Plg22°,Azm189°; P −4.37,Plg5°,Azm97°. Best double couple: $M_0$4.5×10^{16}Nm, NP1: ϕ_S165°,δ44°,λ58°. NP2:ϕ_S26°,δ54°,λ117°.
ISC IX 30 03 45 34±1.4 **19.3N**±.11 **121.2E**±.16 **55**±17 **3.5b** **12 1-74**
NEIC IX 30 03 45 31.4 19.26N 121.26E 33 **¶97ix5115**
EIDC IX 30 03 45 33.9 19.3N 121.3E 36 3.5b,4.0L
NEIC Less reliable solution.
EIDC X 01 04 44 35.3 **9.0N** **127.1E** **0** **3.9b** **¶97x0027**
EIDC LO CONF Location
ISC X 01 10 56 26.9±.86 **18.79N**±.042 **119.90E**±.078 **47**±8.9 **4.4b,3.9s** **51 1-120**
BJI X 01 10 56 24.9 19.21N 119.89E 4 3.7L,4.4b **¶97x0073**
NEIC X 01 10 56 25.2 18.81N 119.92E 32 4.6b
EIDC X 01 10 56 27.1 18.8N 119.9E 32 4.3b,4.1L
BJI Ms4.3
ISC X 04 05 22 44.3±.69 **11.2N**±.13 **126.4E**±.27 **33** **4.0b** **14 24-85**
EIDC X 04 05 22 41.3 11.1N 126.5E 0 3.9b **¶97x0588**
NEIC X 04 05 22 44.3 11.16N 126.44E 33 4.3b
NEIC Less reliable solution.
ISC X 05 11 36 14±1.4 **10.01N**±.057 **126.5E**±.12 **50**±13 **4.6b**,3.3s **40 2-146**
EIDC X 05 11 36 09.3 10.0N 126.4E 0 4.4b,3.3s **¶97x0860**
BJI X 05 11 36 11.6 10.00N 126.50E 33 4.2b
NEIC X 05 11 36 12.6 9.98N 126.49E 33 4.9b
NEIC Less reliable solution.
ISC X 06 03 08 13.8±.63 **10.18N**±.025 **126.10E**±.040 **59**±5.6 **5.3b,4.7s** **247 1-172**
BJI X 06 03 08 13.1 10.03N 125.99E 67 5.4b,4.6s **¶97x0974**
NEIC X 06 03 08 14.5 10.16N 126.10E 66 5.4b
MOS X 06 03 08 15.4 10.4N 125.9E 64 5.8b
HRVD X 06 03 08 15.8±.4 9.81N±.04 126.46E±.04 42
EIDC X 06 03 08 16.6 10.1N 126.2E 71 4.9b
NEIC Mw5.3(HRV)
NEIC Felt I=III RF at Surigao, Mindanao; II RF at Palo, Leyte and Lapu-Lapu, Mactan. Mo=4.1×10^{17}Nm (PPT).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c62; Mantle waves: s1,c1; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.95±.29; $M_{\theta\theta}$1.68±.48; $M_{\phi\phi}$−9.63±.58; $M_{r\theta}$4.70±.66; $M_{r\phi}$2.87±.63; $M_{\theta\phi}$−2.38±.33. Principal Axes: T 10.6,Plg63°,Azm351°; N 0.3,Plg24°,Azm201°; P −10.9,Plg12°,Azm105°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S168°,δ39°,λ50°. NP2:ϕ_S35°,δ61°,λ118°.
NEIC X 06 20 30 41.1 **20.82N** **123.13E** **33** **3.9b** **1-55**
BJI X 06 20 30 21.1 20.80N 123.10E 33 **¶97x1114**
EIDC X 06 20 30 39.1 20.8N 123.2E 0 4.0b,3.8L
NEIC Poor solution.
ISC X 06 23 01 57.9±.76 **19.86N**±.042 **121.43E**±.068 **49**±8.2 **4.3b,3.8s** **39 1-82**
BJI X 06 23 01 56.3 19.80N 121.50E 33 4.3b,4.2s **¶97x1129**
NEIC X 06 23 01 56.3 19.84N 121.46E 33 4.6b
EIDC X 06 23 01 58.7 19.8N 121.4E 37 4.0b,4.3L
ISC X 07 20 03 04.3±.94 **5.3N**±.17 **127.7E**±.35 **100** **3.6b** **8 19-89**
EIDC X 07 20 03 23.1 5.1N 127.4E 269 3.2b **¶97x1294**
ISC X 13 02 17 13.6±.80 **15.36N**±.084 **122.6E**±.13 **33** **3.6b** **11 1-76**
EIDC X 13 02 17 10.0 15.5N 122.7E 0 3.6b **¶97x2143**
EIDC X 14 20 49 38.3 **15.1N** **124.7E** **0** **3.7b** **¶97x2491**
ISC X 17 23 06 00.1±.53 **7.83N**±.068 **127.12E**±.081 **33** **3.9b** **20 1-88**
NEIC X 17 23 05 59.8 7.85N 127.16E 33 4.3b **¶97x3069**
EIDC X 17 23 06 02.7 7.9N 127.1E 39 3.7b,4.4L
NEIC Less reliable solution.
ISC X 26 08 43 30±1.4 **7.16N**±.023 **127.47E**±.032 **27**±9.8 **5.4b,5.1s** **309 2-170**
NEIC X 26 08 43 30.7 7.15N 127.44E 33 5.6b,5.1s **¶97x4437**
MOS X 26 08 43 30.9 7.2N 127.4E 33 5.9b,5.0s
BJI X 26 08 43 31.7 7.13N 127.34E 46 5.3b,5.2s
EIDC X 26 08 43 33.0 7.2N 127.5E 36 5.1b,5.0s
HRVD X 26 08 43 34.6±.2 7.10N±.03 127.82E±.03 15
NEIC Mw5.6(GS), Mw5.6(HRV).
NEIC Mo=6.7×10^{17}Nm (PPT).
NEIC Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}−1.47; $M_{\theta\theta}$0.19; $M_{\phi\phi}$1.28; $M_{r\theta}$0.67; $M_{r\phi}$2.05;

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	Mθθ−0.16. Depth 4km; Principal axes: T 2.39,Plg29°,Azm275°; N 0.32,Plg9°,Azm10°; P −2.72,Plg60°,Azm116°. Best double couple: M0 2.6×10^17Nm; NP1:φS342°,δ18°,λ−120°. NP2: φS193°,δ74°,λ−81°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c68; Mantle waves: s11,c13; Half duration: 1s5. Moment tensor: Scale 10^17Nm; Mrr−2.40±.05; Mθθ−0.21±.06; Mφφ 2.61±.07; Mrθ 0.30±.18; Mrφ 1.02±.22; Mθφ 0.25±.05. Principal Axes: T 2.84,Plg11°,Azm276°; N −0.22,Plg5°,Azm7°; P −2.62,Plg78°,Azm119°. Best double couple: M0 2.7×10^17Nm, NP1:φS359°,δ34°,λ−99°. NP2:φS190°,δ56°,λ−84°.						
ISC	**X 26 19 41 37**±1.7	**5.2N**±.11	**127.9E**±.24	**122**±18	**4.0b**	**16**	**3-131**
NEIC	X 26 19 41 27.3	5.39N	127.81E	33	4.6b		**¶97x4517**
EIDC	X 26 19 41 39.3	5.1N	127.5E	128	3.8b		
NEIC	Less reliable solution.						
ISC	**X 31 00 02 06**±4.0	**18.03N**±.094	**120.0E**±.12	**57**±41	**4.1b,3.9s**	**15**	**12-117**
BJI	X 31 00 02 03.7	17.90N	120.00E	33	4.3b,4.4s		**¶97x5108**
NEIC	X 31 00 02 03.7	17.97N	120.01E	33	4.4b		
EIDC	X 31 00 02 08.1	18.1N	120.0E	59	3.8b,3.2s		
NEIC	Less reliable solution.						
ISC	**XI 01 10 02 16**±1.9	**20.17N**±.056	**121.4E**±.12	**27**±14	**4.4b,**3.7s	**21**	**1-75**
EIDC	XI 01 10 02 13.3	20.1N	121.2E	0	4.3b,4.3L		**¶97xi0058**
BJI	XI 01 10 02 14.7	20.04N	121.10E	17	3.8L,4.3b		
NEIC	XI 01 10 02 16.6	20.13N	121.44E	33	4.5b		
ISC	**XI 01 10 27 44.5**±.99	**20.27N**±.094	**121.9E**±.47	**56**±9.8	**4.1b**	**13**	**0-72**
EIDC	XI 01 10 27 40.2	20.4N	122.7E	0	4.0b		**¶97xi0066**
NEIC	XI 01 10 27 42.3	20.33N	122.25E	33	4.4b		
NEIC	Poor solution.						
ISC	**XI 02 14 19 41**±1.2	**5.3N**±.25	**127.2E**±.60	**334**	**3.2b**	**7**	**2-55**
EIDC	XI 02 14 19 42.6	5.2N	126.8E	334	3.0b		**¶97xi0275**
ISC	**XI 03 14 38 57**±1.6	**20.4N**±.28	**120.4E**±.28	**33**	**3.6b**	**5**	**20-91**
EIDC	XI 03 14 38 39.6	22.8N	121.7E	0	3.5b		**¶97xi0480**
EIDC	**XI 03 16 59 30.6**	**5.7N**	**127.2E**	**0**	**3.6b**		**¶97xi0497**
ISC	**XI 05 12 12 19**±1.3	**17.4N**±.12	**119.9E**±.21	**100**	**3.4b**	**8**	**1-43**
EIDC	XI 05 12 12 09.6	17.3N	119.9E	0	3.5b		**¶97xi0794**
NEIC	XI 05 12 12 12.8	17.34N	120.07E	33			
NEIC	Poor solution.						
ISC	**XI 05 12 36 38.3**±.64	**10.55N**±.082	**126.3E**±.12	**33**	**4.1b**	**15**	**1-118**
NEIC	XI 05 12 36 38.3	10.44N	126.02E	33	4.5b		**¶97xi0800**
EIDC	XI 05 12 36 43.4	10.4N	126.0E	65	3.7b		
NEIC	Less reliable solution.						
ISC	**XI 05 17 13 13.5**±.99	**20.52N**±.099	**120.9E**±.18	**33**	**3.7b**	**7**	**1-46**
EIDC	XI 05 17 13 11.0	20.5N	121.0E	0	3.9b,3.9L		**¶97xi0832**
NEIC	XI 05 17 13 13.5	20.53N	120.94E	33	3.5b		
NEIC	Poor solution.						
ISC	**XI 06 20 40 58**±1.2	**7.5N**±.20	**127.4E**±.24	**33**	**3.5b**	**5**	**1-81**
EIDC	XI 06 20 40 59.1	7.5N	129.7E	0	3.7b		**¶97xi1029**
ISC	**XI 11 13 36 43**±1.7	**18.7N**±.10	**119.9E**±.16	**59**±19	**3.8b**	**10**	**2-76**
NEIC	XI 11 13 36 40.0	18.78N	119.96E	32			**¶97xi1796**
BJI	XI 11 13 36 42.0	18.80N	120.00E	32			
EIDC	XI 11 13 36 42.5	18.7N	120.0E	31	3.7b,3.5L		
NEIC	Single network solution.						
ISC	**XI 11 14 06 35**±1.3	**18.71N**±.077	**119.9E**±.13	**55**±14	**4.0b,**3.9s	**17**	**1-76**
NEIC	XI 11 14 06 32.8	18.72N	119.93E	33	4.2b		**¶97xi1802**
BJI	XI 11 14 06 33.3	18.48N	119.74E	55	4.4b,4.0s		
EIDC	XI 11 14 06 35.3	18.7N	120.1E	35	3.8b,3.7L		
NEIC	Less reliable solution.						
ISC	**XI 11 18 46 58.4**±.63	**19.57N**±.059	**122.0E**±.15	**33**	**3.7b**	**14**	**1-87**
BJI	XI 11 18 46 58.0	19.50N	122.00E	33	4.7b		**¶97xi1851**
NEIC	XI 11 18 46 58.0	19.49N	122.04E	33			
EIDC	XI 11 18 47 02.1	19.5N	122.0E	55	3.5b,3.7L		
NEIC	Single network solution.						
EIDC	LO CONF Depth						
ISC	**XI 12 01 57 21**±1.0	**18.66N**±.061	**119.63E**±.090	**38**±11	**4.2b,4.0s**	**32**	**1-89**
BJI	XI 12 01 57 20.3	18.97N	119.45E	5	4.3b,4.1s		**¶97xi1918**
NEIC	XI 12 01 57 21.0	18.73N	119.88E	33	4.4b		
EIDC	XI 12 01 57 22.6	18.7N	119.9E	31	4.0b,4.3L		
ISC	**XI 15 20 09 46**±1.2	**19.71N**±.090	**121.9E**±.20	**33**		**6**	**1-9**
							¶97xi2530
ISC	**XI 17 16 01 05**±1.1	**19.74N**±.064	**121.3E**±.11	**42**±14	**3.7b,**3.6s	**15**	**1-55**
EIDC	XI 17 16 01 01.6	19.7N	121.4E	0	3.8b,4.2L		**¶97xi2825**
BJI	XI 17 16 01 04.1	19.67N	121.33E	32	4.4b		
NEIC	XI 17 16 01 04.3	19.70N	121.38E	33	4.3b		
ISC	**XI 18 10 42 41**±2.8	**17.2N**±.12	**119.7E**±.29	**33**	3.3b	**6**	**1-40**
							¶97xi2945
EIDC	**XI 19 20 45 41.4**	**13.2N**	**118.7E**	**0**	**4.0b,**3.9L		**¶97xi3309**
ISC	**XI 21 23 25 04.4**±.91	**19.9N**±.10	**122.0E**±.22	**49**±14	**4.1b**	**13**	**1-51**
EIDC	XI 21 23 24 59.4	19.8N	121.5E	0	4.0b,4.6L		**¶97xi3758**
NEIC	XI 21 23 25 02.6	19.87N	121.77E	33	4.5b		
NEIC	Less reliable solution.						
EIDC	**XI 23 10 29 26.3**	**20.8N**	**121.7E**	**0**	**3.7b**		**¶97xi4093**
ISC	**XI 29 00 39 03.7**±.64	**8.13N**±.075	**127.26E**±.085	**33**	**4.5b**	**20**	**3-88**
BJI	XI 29 00 39 03.4	8.20N	127.30E	33	5.0b		**¶97xi5165**
NEIC	XI 29 00 39 03.4	8.16N	127.29E	33	4.3b		
NEIC	Less reliable solution.						
ISC	**XI 29 06 22 35**±2.7	**8.19N**±.098	**127.1E**±.21	**41**±26	**3.9b**	**12**	**1-88**
EIDC	XI 29 06 22 30.3	8.3N	127.2E	0	4.0b		**¶97xi5211**
NEIC	XI 29 06 22 33.9	8.31N	127.16E	33	4.2b		
NEIC	Less reliable solution.						
ISC	**XI 29 12 11 02.3**±.97	**13.50N**±.095	**125.7E**±.13	**33**	**3.9b**	**8**	**2-77**
EIDC	XI 29 12 10 59.3	13.5N	125.8E	0	4.0b		**¶97xi5262**
ISC	**XI 30 15 12 41.6**±.91	**19.17N**±.058	**121.4E**±.10	**71**±9.8	**3.9b**	**23**	**1-74**
EIDC	XI 30 15 12 34.5	19.1N	121.4E	0	3.7b,3.7s		**¶97xi5424**
NEIC	XI 30 15 12 37.9	19.13N	121.44E	33	4.2b		
BJI	XI 30 15 12 39.3	19.24N	120.74E	4	4.3b		
NEIC	Less reliable solution.						
ISC	**XII 01 19 56 27**±2.8	**5.4N**±.13	**128.0E**±.41	**35**±27	**3.8b**	**13**	**3-89**
EIDC	XII 01 19 56 24.0±.79	5.4N	128.0E	0	3.9b		**¶97xii0137**
NEIC	XII 01 19 56 26.9	5.39N	127.98E	33	4.0b		
EIDC	Error ellipse is semi−major=72.6km semi−minor=15.3km azimuth=79						
NEIC	Poor solution.						
ISC	**XII 02 10 36 53**±1.8	**10.3N**±.12	**126.1E**±.21	**65**±17	**3.7b**	**11**	**1-80**
EIDC	XII 02 10 36 47.1±1.21	10.3N	126.2E	0	3.8b		**¶97xii0227**
NEIC	XII 02 10 36 50.1	10.19N	126.11E	33	4.0b		
EIDC	Error ellipse is semi−major=46.1km semi−minor=23.7km azimuth=68						
NEIC	Poor solution.						
ISC	**XII 13 15 11 30**±2.3	**10.4N**±.12	**126.4E**±.24	**42**±21	**3.8b**	**12**	**2-86**
EIDC	XII 13 15 11 26.7±1.14	10.7N	126.3E	0	3.8b		**¶97xii2962**
NEIC	XII 13 15 11 29.3	10.55N	126.23E	33	4.3b		
EIDC	Error ellipse is semi−major=44.7km semi−minor=25.7km azimuth=71						
NEIC	Poor solution.						
ISC	**XII 14 23 28 08**±1.3	**15.09N**±.051	**122.71E**±.098	**41**±12	**4.4b**	**43**	**2-91**
EIDC	XII 14 23 28 09.7±.62	15.1N	122.6E	37±5.1	4.1b		**¶97xii3208**
NEIC	XII 14 23 28 47.5	10.04N	123.23E	33	4.7b		
EIDC	Error ellipse is semi−major=25.4km semi−minor=11.8km azimuth=74						
NEIC	Poor solution.						
ISC	**XII 17 01 13 40**±4.2	**19.7N**±.35	**121.1E**±.33	**33**	3.4b	**7**	**1-45**
EIDC	XII 17 01 13 03.7±2.78	24.6N	122.9E	0	3.6b,4.6L		**¶97xii3534**
EIDC	Error ellipse is semi−major=585.1km semi−minor=40.0km azimuth=73LO CONF Location						
EIDC	**XII 19 09 57 13.6**	**15.6N**	**123.4E**	**0**	**3.4b**		**2-40**
							¶97xii3927
EIDC	Origin time error = 16.74Error ellipse is semi−major=505.7km semi−minor=28.5km azimuth=39						
ISC	**XII 21 16 12 40**±1.2	**7.7N**±.16	**127.6E**±.13	**33**	**3.5b**	**6**	**1-81**
EIDC	XII 21 16 12 37.6±1.33	7.6N	127.7E	0	3.6b,4.0L		**¶97xii4275**
EIDC	Error ellipse is semi−major=32.1km semi−minor=26.4km azimuth=126						
ISC	**XII 22 10 25 14.9**±.89	**13.11N**±.036	**125.25E**±.059	**39**±8.2	**4.6b,4.5s**	**93**	**2-117**
BJI	XII 22 10 25 04.2	12.14N	125.90E	33	4.9b,4.7s		**¶97xii4401**
EIDC	XII 22 10 25 11.2±.54	13.2N	125.3E	0	4.4b,5.2L		
NEIC	XII 22 10 25 14.2	13.09N	125.19E	33	4.8b		
EIDC	Error ellipse is semi−major=27.5km semi−minor=11.7km azimuth=79						
ISC	**XII 22 10 28 12.6**±.75	**13.43N**±.090	**125.2E**±.15	**33**	**4.2b**	**17**	**2-84**
EIDC	XII 22 10 28 07.6±.90	13.2N	125.4E	0	4.3b		**¶97xii4404**
BJI	XII 22 10 28 08.4	13.46N	125.34E	20	4.3b,4.9s		
NEIC	XII 22 10 28 10.6	13.14N	125.18E	33	4.6b		
EIDC	Error ellipse is semi−major=59.2km semi−minor=18.6km azimuth=77						
NEIC	Poor solution.						
ISC	**XII 22 12 53 27**±1.7	**13.13N**±.080	**125.0E**±.17	**57**±16	**3.9b,**2.9s	**22**	**2-83**
BJI	XII 22 12 53 23.6	13.35N	125.46E	29	4.2b		**¶97xii4423**
NEIC	XII 22 12 53 23.9	13.14N	125.05E	33	4.5b		
EIDC	XII 22 12 53 26.3±.83	13.1N	125.1E	37±8.0	3.7b,2.9s		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=29.4km semi−minor=12.7km azimuth=71						
ISC	**XII 23 09 52 00.8**±.95	**13.16N**±.033	**125.25E**±.054	**37**±8.6	**4.8b,4.6s**	**113**	**2-149**
EIDC	XII 23 09 51 56.7±.56	13.2N	125.3E	0	4.6b,4.2s		**¶97xii4579**
BJI	XII 23 09 52 00.0	12.86N	125.43E	52	5.0b,4.8s		
NEIC	XII 23 09 52 00.2	13.14N	125.16E	33	5.0b		
HRVD	XII 23 09 52 01.1±.9	12.75N±.12	125.25E±.14	15			
EIDC	Error ellipse is semi−major=27.7km semi−minor=12.8km azimuth=78						
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c16; Half duration: 1s0. Moment tensor: Scale 10^16Nm; Mrr−4.72±.46; Mθθ−1.85±.52; Mφφ 6.57±.71; Mrθ 8.23±1.34; Mrφ −1.08±3.02; Mθφ −0.31±.57. Principal Axes: T 7.0,Plg17°,Azm71°; N 4.6, Plg35°,Azm328°; P −11.7,Plg50°,Azm183°. Best double couple: M0 9.4×10^16Nm, NP1: φS201°,δ41°,λ−30°. NP2:φS314°,δ71°,λ−127°.						
ISC	**XII 23 10 02 58.8**±.80	**13.16N**±.031	**125.28E**±.047	**34**±7.2	**4.9b,4.8s**	**157**	**2-149**
EIDC	XII 23 10 02 55.2±.46	13.1N	125.3E	0	4.8b,4.8s		**¶97xii4580**
BJI	XII 23 10 02 58.2	13.04N	125.48E	43	5.1b,5.0s		
MOS	XII 23 10 02 58.5	13.1N	125.4E	33	5.6b,4.8s		
NEIC	XII 23 10 02 58.5	13.13N	125.24E	33	5.1b		
HRVD	XII 23 10 02 59.7±.1	13.13N±.01	125.43E±.02	31±1.3			
EIDC	Error ellipse is semi−major=22.2km semi−minor=9.7km azimuth=77						
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c16; Half duration: 1s0. Moment tensor: Scale 10^16Nm; Mrr−2.74±1.10; Mθθ 4.08±1.11; Mφφ −1.34±1.98; Mrθ −2.78±2.31; Mrφ 7.52±3.27; Mθφ −0.82±1.03. Principal Axes: T 7.42, Plg35°,Azm223°; N 2.33,Plg19°,Azm327°; P −9.75,Plg48°,Azm80°. Best double couple: M0 8.6×10^16Nm, NP1:φS259°,δ20°,λ−160°. NP2:φS150°,δ83°,λ−71°.						
ISC	**XII 23 11 36 18**±2.0	**13.1N**±.10	**125.0E**±.23	**65**±21	**3.9b**	**20**	**2-92**
EIDC	XII 23 11 36 11.6±.83	13.1N	125.2E	0	3.9b,3.2s		**¶97xii4590**
NEIC	XII 23 11 36 14.5	13.07N	125.13E	33	4.5b		
BJI	XII 23 11 36 15.1	13.85N	125.42E	5			
EIDC	Error ellipse is semi−major=63.0km semi−minor=15.2km azimuth=79						
NEIC	Less reliable solution.						
ISC	**XII 23 13 31 13**±7.2	**13.20N**±.092	**125.5E**±.29	**29**±55	**3.8b**	**15**	**2-149**
EIDC	XII 23 13 31 10.5±.88	13.1N	125.4E	0	3.8b		**¶97xii4607**
NEIC	XII 23 13 31 13.2	13.10N	125.26E	33	3.7b		
EIDC	Error ellipse is semi−major=99.1km semi−minor=15.7km azimuth=78						
NEIC	Poor solution.						
ISC	**XII 23 15 06 36**±2.5	**13.18N**±.079	**125.3E**±.19	**38**±24	**3.8b**	**21**	**3-149**
EIDC	XII 23 15 06 32.6±.75	13.1N	125.1E	0	3.8b		**¶97xii4620**
BJI	XII 23 15 06 34.3	12.98N	125.52E	44			
NEIC	XII 23 15 06 35.8	13.17N	125.23E	33	4.3b		
EIDC	Error ellipse is semi−major=65.0km semi−minor=12.6km azimuth=78						
NEIC	Less reliable solution.						
ISC	**XII 23 17 08 29**±1.3	**13.24N**±.057	**125.2E**±.10	**45**±12	**4.1b,**4.1s	**32**	**2-149**
BJI	XII 23 17 08 26.6	13.15N	125.35E	37	4.4b		**¶97xii4629**
NEIC	XII 23 17 08 27.8	13.18N	125.26E	33	4.3b		
EIDC	XII 23 17 08 28.1±4.54	13.2N	125.2E	21±28.2	3.9b,4.7L		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=39.0km semi−minor=15.2km azimuth=78						
ISC	**XII 23 23 52 20.3**±.93	**13.18N**±.034	**125.31E**±.064	**41**±8.6	**4.8b,4.3s**	**90**	**2-149**
EIDC	XII 23 23 52 18.5±3.41	13.2N	125.1E	12±20.3	4.6b,4.3s		**¶97xii4672**
BJI	XII 23 23 52 18.6	12.98N	125.49E	44	4.8b,4.7s		
NEIC	XII 23 23 52 19.0	13.14N	125.19E	33	5.0b,4.2s		
EIDC	Error ellipse is semi−major=20.3km semi−minor=11.2km azimuth=72						
ISC	**XII 24 16 00 31.4**±.50	**13.19N**±.062	**125.5E**±.10	**33**	**3.8b,**2.9s	**22**	**2-90**
EIDC	XII 24 16 00 28.6±.76	13.2N	125.7E	0	3.8b,2.9s		**¶97xii4786**
NEIC	XII 24 16 00 31.2	13.15N	125.61E	33	4.1b		
EIDC	Error ellipse is semi−major=38.6km semi−minor=15.8km azimuth=76						
NEIC	Less reliable solution.						
ISC	**XII 24 18 57 58**±1.1	**13.11N**±.043	**125.24E**±.074	**49**±10	**4.5b,3.9s**	**70**	**2-149**
EIDC	XII 24 18 57 53.6±.57	13.2N	125.3E	0	4.3b,3.8s		**¶97xii4809**
BJI	XII 24 18 57 56.0	12.84N	125.61E	53	4.7b,4.3s		
NEIC	XII 24 18 57 56.2	13.12N	125.21E	33	4.6b		
EIDC	Error ellipse is semi−major=27.6km semi−minor=12.1km azimuth=73						
ISC	**XII 27 08 53 56.2**±.80	**13.27N**±.080	**125.0E**±.13	**33**	**3.7b,**3.3s	**12**	**2-77**
EIDC	XII 27 08 53 51.8±1.59	13.1N	125.5E	0	3.8b,3.3s		**¶97xii5273**
EIDC	Error ellipse is semi−major=132.1km semi−minor=19.2km azimuth=84						

(249) Luzon.

EIDC	**VII 02 13 28 10.0**	**14.1N**	**121.9E**	**0**	**3.6b**		**36-49**
							¶97vii0248
ISC	**VII 03 04 44 18.8**±.51	**18.44N**±.072	**121.2E**±.13	**33**	**3.8b,**3.1s	**18**	**11-88**
EIDC	VII 03 04 44 15.9	18.4N	121.2E	0	3.9b,3.1s		**¶97vii0358**
BJI	VII 03 04 44 18.4	18.09N	120.54E	19	4.6b		
NEIC	VII 03 04 44 18.6	18.46N	121.18E	33	4.0b		
NEIC	Less reliable solution.						
ISC	**VII 03 05 25 57**±1.0	**18.7N**±.14	**121.3E**±.21	**33**	**3.3b,**2.8s	**5**	**20-74**
EIDC	VII 03 05 25 54.4	18.6N	121.3E	0	3.3b,2.8s		**¶97vii0363**

ISC	**VII**	**04 02 14 36.5**±.69	**15.7N**±.11	**120.9E**±.17	**122**	**4.0b**	**12**	**21-89**	
NEIC	VII	04 02 14 36.5	15.68N	120.93E	122	4.0b			¶97vii0482
EIDC	VII	04 02 14 38.7	15.6N	121.0E	133	3.6b			
NEIC	Less reliable solution.								
ISC	**VII**	**04 05 01 57.9**±.54	**18.35N**±.080	**120.5E**±.11	**33**	**4.0b**,3.3s	**17**	**8-171**	
BJI	VII	04 05 01 57.3	18.20N	120.40E	23	4.1L,4.4b			¶97vii0502
NEIC	VII	04 05 01 58.2	18.36N	120.69E	33	4.1b			
EIDC	VII	04 05 02 04.1	18.3N	120.7E	70	3.6b,3.4s			
NEIC	Less reliable solution.								
EIDC	**VII**	**08 00 59 07.1**	**14.2N**	**121.0E**	**0**	**3.5b**		**36-78**	
									¶97vii1112
ISC	**VII**	**08 15 12 59.3**±.35	**18.24N**±.047	**120.89E**±.068	**29**	**4.1b**,3.1s	**43**	**7-95**	
EIDC	VII	08 15 12 57.5	18.3N	121.0E	0	4.0b,3.1s			¶97vii1205
BJI	VII	08 15 12 59.8	18.25N	120.77E	29	4.1L,4.3b			
NEIC	VII	08 15 12 59.9	18.25N	120.89E	33	4.2b			
NEIC	Less reliable solution.								
ISC	**VII**	**13 15 02 03.0**±.80	**13.9N**±.12	**124.9E**±.23	**33**	**3.8b**	**7**	**25-77**	
EIDC	VII	13 15 02 00.3	13.9N	124.9E	0	3.7b			¶97vii1982
NEIC	VII	13 15 02 02.9	13.92N	124.95E	33				
NEIC	Single network solution.								
ISC	**VII**	**13 23 00 07**±1.3	**13.7N**±.22	**124.7E**±.28	**33**	**3.3b**	**4**	**25-77**	
EIDC	VII	13 23 00 04.0	13.7N	124.8E	0	3.4b			¶97vii2037
ISC	Poorly determined								
ISC	**VII**	**15 13 08 52.8**±.58	**12.61N**±.079	**123.2E**±.14	**32**	**4.1b,4.1s**	**24**	**3-79**	
EIDC	VII	15 13 08 50.2	12.5N	123.1E	0	3.9b,4.0s			¶97vii2306
NEIC	VII	15 13 08 52.8	12.56N	123.14E	33	4.6b			
BJI	VII	15 13 08 52.9	12.66N	123.10E	32	4.5b,4.4s			
NEIC	Less reliable solution.								
ISC	**VII**	**18 09 02 51.0**±.54	**14.8N**±.11	**120.3E**±.19	**100**	**4.1b**	**15**	**21-119**	
EIDC	VII	18 09 02 40.5	14.9N	120.5E	0	4.2b,3.1s			¶97vii2718
NEIC	VII	18 09 02 51.0	14.81N	120.25E	100	4.4b			
NEIC	Less reliable solution.								
ISC	**VII**	**22 01 12 41.6**±.98	**12.5N**±.16	**123.5E**±.51	**33**	**4.0b**	**8**	**25-51**	
EIDC	VII	22 01 12 39.0	12.5N	123.5E	0	3.9b			¶97vii3308
NEIC	VII	22 01 12 41.7	12.45N	123.46E	33	4.2b			
NEIC	Poor solution.								
ISC	**VII**	**23 22 21 16.9**±.92	**16.7N**±.14	**121.5E**±.21	**33**	**3.6b**	**6**	**21-85**	
EIDC	VII	23 22 21 13.7	16.6N	121.6E	0	3.6b			¶97vii3583
NEIC	VII	23 22 21 17.1	16.64N	121.47E	33				
NEIC	Poor solution.								
EIDC	**VII**	**28 16 53 22.4**	**16.9N**	**121.1E**	**0**	**3.2b**		**21-42**	
									¶97vii4304
ISC	**VIII**	**01 05 21 29.5**±.86	**16.5N**±.11	**122.6E**±.11	**33**	**3.7b**,2.9s	**14**	**1-94**	
EIDC	VIII	01 05 21 27.2	16.5N	122.8E	0	3.7b,2.9s			¶97viii0026
ISC	**VIII**	**02 07 03 01**±2.0	**17.28N**±.063	**122.8E**±.16	**42**±20	**4.0b**,3.1s	**23**	**1-78**	
EIDC	VIII	02 07 02 56.7	17.2N	122.6E	0	4.0b,3.5s			¶97viii0184
BJI	VIII	02 07 02 59.3	17.32N	122.90E	32	4.2b			
NEIC	VIII	02 07 02 59.9	17.25N	122.68E	33	4.3b			
NEIC	Less reliable solution.								
ISC	**VIII**	**04 11 41 29.4**±.58	**14.16N**±.058	**120.8E**±.13	**140**±5.9	**3.9b**	**31**	**0-92**	
BJI	VIII	04 11 41 28.7	13.97N	120.56E	137	4.7b			¶97viii0503
NEIC	VIII	04 11 41 29.2	14.15N	120.78E	139	4.0b			
EIDC	VIII	04 11 41 30.9	14.1N	120.8E	142	3.6b			
NEIC	Less reliable solution.								
ISC	**VIII**	**09 19 06 22.7**±.89	**17.26N**±.088	**120.7E**±.14	**69**±11	**3.4b**	**11**	**0-77**	
EIDC	VIII	09 19 06 26.1	17.1N	120.8E	91	3.2b			¶97viii1303
ISC	**VIII**	**09 23 35 09.8**±.80	**16.47N**±.071	**121.1E**±.18	**33**	**3.5b**	**10**	**0-52**	
EIDC	VIII	09 23 34 57.6	18.0N	122.5E	0	3.6b			¶97viii1320
ISC	**VIII**	**12 12 02 38**±1.1	**13.40N**±.093	**123.8E**±.17	**51**±12	**4.1b**,3.9s	**27**	**3-82**	
EIDC	VIII	12 12 02 32.2	13.5N	124.0E	0	4.0b			¶97viii1745
NEIC	VIII	12 12 02 36.0	13.47N	123.96E	33	4.4b			
BJI	VIII	12 12 02 37.2	13.04N	123.77E	37	4.5b			
NEIC	Less reliable solution.								
EIDC	**VIII**	**13 17 23 32.8**	**15.3N**	**121.7E**	**0**	**3.5b**		**1-40**	
									¶97viii1941
EIDC	**VIII**	**29 12 30 35.0**	**16.8N**	**122.3E**	**0**	**3.4b**		**22-52**	
									¶97viii4302
ISC	**IX**	**03 14 06 59**±1.1	**15.9N**±.11	**121.1E**±.38	**100**	3.5b	**9**	**1-38**	
									¶97ix0432
ISC	**IX**	**04 03 54 29**±1.7	**14.30N**±.081	**119.3E**±.15	**56**±16	**4.0b**	**18**	**2-93**	
EIDC	IX	04 03 54 24.2	14.3N	119.5E	0	4.0b,3.0s			¶97ix0542
NEIC	IX	04 03 54 27.0	14.26N	119.38E	33	4.4b			
NEIC	Less reliable solution.								
ISC	**IX**	**10 15 04 43**±2.2	**15.69N**±.088	**120.3E**±.38	**33**		**5**	**1-3**	
									¶97ix1536
EIDC	**IX**	**11 02 46 50.4**	**12.8N**	**123.0E**	**0**	**3.9b**			¶97ix1619
ISC	**IX**	**11 07 37 36**±2.2	**18.94N**±.053	**121.41E**±.090	**25**±16	**4.4b,4.2s**	**45**	**1-156**	
BJI	IX	11 07 37 36.2	19.15N	121.05E	3	4.2L,4.6b			¶97ix1649
NEIC	IX	11 07 37 36.9	18.96N	121.44E	33	4.4b			
EIDC	IX	11 07 37 42.6	18.9N	121.4E	66	4.1b,4.2s			
BJI	Ms4.2								
NEIC	Less reliable solution.								
ISC	**IX**	**13 13 49 07**±2.0	**18.97N**±.093	**121.5E**±.19	**49**±21	**3.5b**	**12**	**1-74**	
EIDC	IX	13 13 49 02.6	18.9N	121.4E	0	3.8b,4.1L			¶97ix1980
NEIC	IX	13 13 49 05.4	18.93N	121.46E	33				
NEIC	Single network solution.								
EIDC	**IX**	**29 07 09 24.9**	**14.0N**	**122.9E**	**0**	**3.2b**			¶97ix4894
ISC	**X**	**04 15 14 19**±1.5	**14.14N**±.036	**120.77E**±.063	**213**±15	**4.6b**	**89**	**11-152**	
NEIC	X	04 15 14 17.2	14.15N	120.75E	200	4.9b			¶97x0670
BJI	X	04 15 14 18.0	14.05N	120.82E	218	4.9b			
EIDC	X	04 15 14 19.5	14.2N	120.8E	212	3.9b			
ISC	**X**	**04 21 08 41**±1.1	**13.1N**±.18	**124.2E**±.28	**33**	**3.8b**,3.3s	**7**	**25-48**	
EIDC	X	04 21 08 38.9	13.1N	124.2E	0	3.8b,3.2s			¶97x0730
ISC	**X**	**14 11 07 31.9**±.66	**15.69N**±.085	**120.8E**±.18	**175**±7.0	**3.5b**	**13**	**1-91**	
EIDC	X	14 11 07 36.6	15.8N	120.7E	202	3.2b			¶97x2387
ISC	**X**	**14 17 11 35.2**±.82	**13.38N**±.045	**122.45E**±.063	**39**±8.0	**4.6b,4.1s**	**72**	**1-169**	
NEIC	X	14 17 11 34.5	13.36N	122.42E	33	4.7b			¶97x2453
EIDC	X	14 17 11 34.7	13.4N	122.4E	22	4.4b,4.4L			
BJI	X	14 17 11 35.4	13.42N	122.65E	39	4.5b,4.3s			
ISC	**X**	**16 18 05 22**±3.0	**14.6N**±.12	**120.3E**±.36	**33**		**5**	**1-3**	
									¶97x2864
ISC	**X**	**20 03 24 08**±2.0	**15.7N**±.17	**120.1E**±.23	**73**±19	**3.9b**	**8**	**1-85**	
EIDC	X	20 03 24 00.3	15.9N	120.4E	0	4.0b,2.9s			¶97x3426
ISC	**X**	**27 08 20 05**±8.4	**13.9N**±.21	**124.6E**±.34	**9**±53	**3.7b**	**8**	**3-48**	
EIDC	X	27 08 20 05.7	13.9N	124.6E	0	3.7b,2.6s			¶97x4587
ISC	**X**	**30 15 38 57**±1.3	**14.1N**±.21	**121.5E**±.30	**33**	**3.5b**	**4**	**22-39**	
EIDC	X	30 15 38 54.1	14.1N	121.4E	0	3.8b			¶97x5062
ISC	Poorly determined								
ISC	**XI**	**03 12 39 08**±2.9	**15.55N**±.080	**120.2E**±.51	**33**		**5**	**1-3**	
									¶97xi0464
ISC	**XI**	**07 20 25 12**±1.2	**14.92N**±.065	**119.8E**±.12	**58**±12	**4.2b,3.8s**	**33**	**1-172**	
EIDC	XI	07 20 25 06.4	14.9N	120.0E	0	4.2b,3.8s			¶97xi1166
NEIC	XI	07 20 25 09.6	14.90N	119.85E	33	4.5b			
BJI	XI	07 20 25 09.7	14.48N	119.55E	42	4.0b,4.2s			
NEIC	Less reliable solution.								
ISC	**XI**	**09 00 19 11.1**±.98	**16.50N**±.066	**122.4E**±.12	**40**±11	**3.7b**	**18**	**1-90**	
NEIC	XI	09 00 19 10.2	16.43N	122.24E	33				¶97xi1367
EIDC	XI	09 00 19 16.6	16.4N	122.1E	78	3.5b			
NEIC	Poor solution.								
ISC	**XI**	**09 04 46 43**±2.3	**17.2N**±.12	**122.9E**±.28	**33**	3.9b	**10**	**1-78**	
EIDC	XI	09 04 46 10.9	10.9N	124.3E	0	3.9b			¶97xi1398
ISC	**XI**	**10 16 02 15.6**±.66	**15.98N**±.078	**119.76E**±.090	**33**	**3.9b,3.4s**	**17**	**1-78**	
BJI	XI	10 16 02 09.5	15.32N	119.84E	33	4.3b,4.1s			¶97xi1633
EIDC	XI	10 16 02 11.9	16.1N	120.1E	0	3.8b,3.2s			
NEIC	XI	10 16 02 15.0	16.07N	119.95E	33	4.0b			
NEIC	Less reliable solution.								
ISC	**XI**	**13 14 20 15.0**±.64	**18.52N**±.050	**122.06E**±.084	**134**±6.4	**3.8b**	**34**	**1-115**	
NEIC	XI	13 14 20 04.0	18.59N	122.35E	33	4.4b			¶97xi2150
BJI	XI	13 14 20 08.0	18.60N	122.40E	33	4.3L,4.2b			
EIDC	XI	13 14 20 18.2	18.5N	122.0E	146	3.6b			
NEIC	Less reliable solution.								
ISC	**XI**	**14 05 34 30**±1.6	**16.5N**±.11	**122.2E**±.20	**33**		**6**	**1-3**	
									¶97xi2247
ISC	**XI**	**17 00 14 41**±1.2	**17.02N**±.044	**120.08E**±.068	**48**±11	**4.6b,4.3s**	**81**	**1-172**	
EIDC	XI	17 00 14 36.6	17.1N	120.1E	0	4.5b,4.1s			¶97xi2711
NEIC	XI	17 00 14 39.6	17.05N	120.10E	33	4.8b			
BJI	XI	17 00 14 39.7	17.10N	120.01E	30	4.6b,4.5s			
ISC	**XI**	**17 06 59 35.5**±.73	**14.1N**±.11	**120.9E**±.19	**209**±7.4	**3.6b**	**11**	**0-152**	
NEIC	XI	17 06 59 34.7	14.11N	120.88E	200	3.8b			¶97xi2756
EIDC	XI	17 06 59 39.4	14.1N	120.8E	234	3.4b			
NEIC	Less reliable solution.								
ISC	**XI**	**30 08 54 08.5**±.88	**17.4N**±.11	**120.9E**±.11	**33**	**3.2b**	**8**	**0-75**	
EIDC	XI	30 08 54 08.6	17.3N	122.0E	0	3.3b			¶97xi5390
NEIC	XI	30 08 54 11.4	17.35N	121.94E	33				
NEIC	Single network solution.								
ISC	**XII**	**06 06 49 24**±1.2	**13.8N**±.14	**124.7E**±.14	**33**	**4.1b**	**14**	**2-48**	
EIDC	XII	06 06 50 19.0	7.9N	128.8E	0	4.2b			¶97xii1281
EIDC	Origin time error = 49.54Error ellipse is semi−major=889.4km semi−minor=312.1km azimuth=146								
ISC	**XII**	**08 18 28 27.6**±.93	**16.8N**±.10	**122.7E**±.16	**33**	**4.0b**	**10**	**1-85**	
EIDC	XII	08 18 28 23.8±2.79	16.8N	122.4E	0	3.9b			¶97xii1983
EIDC	Error ellipse is semi−major=561.6km semi−minor=29.0km azimuth=67								
ISC	**XII**	**09 00 55 52.4**±.89	**14.61N**±.093	**120.7E**±.19	**150**	**3.5b**	**8**	**1-40**	
EIDC	XII	09 00 55 38.3±1.27	14.6N	120.8E	0	3.7b			¶97xii2061
EIDC	Error ellipse is semi−major=34.9km semi−minor=22.5km azimuth=58								
EIDC	**XII**	**14 00 18 26.9**±1.21	**14.6N**	**119.3E**	**700**	**2.8b**		**20-79**	
									¶97xii3042
EIDC	Error ellipse is semi−major=141.4km semi−minor=23.7km azimuth=73								
ISC	**XII**	**20 06 09 47.2**±.64	**14.3N**±.10	**120.8E**±.18	**257**±6.3	**3.5b**	**16**	**0-119**	
EIDC	XII	20 06 09 20.0±.82	14.7N	121.5E	0	3.9b			¶97xii4088
NEIC	XII	20 06 09 30.6	14.54N	121.33E	100	3.8b			
EIDC	Error ellipse is semi−major=34.2km semi−minor=20.4km azimuth=63								
NEIC	Less reliable solution.								
ISC	**XII**	**22 16 49 54.1**±.73	**14.88N**±.027	**119.84E**±.040	**43**±6.6	**5.2b,5.1s**	**290**	**1-168**	
MOS	XII	22 16 49 52.7	14.9N	120.0E	33	5.5b,5.3s			¶97xii4453
BJI	XII	22 16 49 52.7	14.71N	119.99E	47	5.0b,5.2s			
NEIC	XII	22 16 49 52.9	14.90N	119.92E	33	5.3b,5.0s			
EIDC	XII	22 16 49 55.8±.33	14.9N	119.8E	40±2.7	4.8b,5.1s			
HRVD	XII	22 16 49 58.9±.3	15.14N±.05	119.69E±.04	32±3.0				
NEIC	Mw5.6(HRV).								
EIDC	Error ellipse is semi−major=16.4km semi−minor=8.5km azimuth=79								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c64; Half duration: 1ŝ7. Moment tensor: Scale 10^{17}Nm; M_{rr}1.83±.07; $M_{\theta\theta}$−0.06±.09; $M_{\phi\phi}$−1.77±.10; $M_{r\theta}$−0.90±.23; $M_{r\phi}$−1.50±.23; $M_{\theta\phi}$−0.48±.09. Principal Axes: T 2.56,Plg67°,Azm132°; N −0.01,Plg8°,Azm22°; P −2.55,Plg21°,Azm289°. Best double couple: M_O2.5×10^{17}Nm, NP1: ϕ_S4°,δ25°,λ70°. NP2:ϕ_S206°,δ67°,λ99°.								
ISC	**XII**	**22 17 45 39**±2.5	**16.3N**±.24	**121.0E**±.31	**33**	**3.3b**	**5**	**2-42**	
EIDC	XII	22 17 45 35.3	16.4N	121.1E	0	3.4b			¶97xii4460
EIDC	Origin time error = 17.98Error ellipse is semi−major=537.5km semi−minor=26.9km azimuth=35LO CONF Location								
ISC	**XII**	**22 21 47 55**±1.9	**13.10N**±.094	**124.9E**±.21	**59**±22	**3.6b**	**13**	**2-78**	
EIDC	XII	22 21 47 49.1±1.01	13.1N	124.9E	0	3.8b			¶97xii4489
NEIC	XII	22 21 47 51.9	13.03N	124.80E	33	3.6b			
EIDC	Error ellipse is semi−major=55.6km semi−minor=17.1km azimuth=81								
NEIC	Less reliable solution.								
ISC	**XII**	**23 17 39 29**±1.0	**14.79N**±.067	**119.8E**±.14	**70**±11	**4.1b**	**23**	**1-153**	
BJI	XII	23 17 39 22.5	14.46N	120.54E	57	4.6b			¶97xii4632
NEIC	XII	23 17 39 25.1	14.87N	120.20E	33	4.2b			
EIDC	XII	23 17 39 31.5	14.8N	120.1E	70±112.9	3.8b,3.4s			
NEIC	Less reliable solution.								
EIDC	Origin time error = 12.14Error ellipse is semi−major=63.4km semi−minor=17.4km azimuth=57								
ISC	**XII**	**24 17 43 50.6**±.89	**14.7N**±.13	**119.9E**±.18	**33**	**3.6b**	**8**	**1-92**	
EIDC	XII	24 17 43 48.0±1.52	14.7N	119.9E	0	3.4b			¶97xii4794
NEIC	XII	24 17 43 51.1	14.58N	119.74E	33	3.6b			
EIDC	Error ellipse is semi−major=51.6km semi−minor=25.3km azimuth=46								
NEIC	Poor solution.								
ISC	**XII**	**31 19 53 11.3**±.43	**16.42N**±.056	**121.1E**±.11	**33**	**3.9b**,4.0s	**31**	**1-90**	
NEIC	XII	31 19 53 11.2	16.41N	121.12E	33	4.2b			¶97xii5961
BJI	XII	31 19 53 12.4	16.63N	121.00E	17	4.1s			
EIDC	XII	31 19 53 14.8±4.91	16.4N	121.2E	48±49.7	3.6b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=27.8km semi−minor=15.2km azimuth=77								

(250) Mindoro.

ISC	**VII**	**12 23 55 40**±6.7	**13.5N**±.12	**120.8E**±.18	**214**±64	**4.1b**	**32**	**22-122**	
NEIC	VII	12 23 55 33.8	13.58N	120.88E	150	4.6b			¶97vii1892
EIDC	VII	12 23 55 39.3	13.5N	120.8E	186	3.6b			
ISC	**VIII**	**03 15 35 04**±1.1	**13.30N**±.068	**120.4E**±.13	**66**±11	**4.1b**	**47**	**1-120**	
BJI	VIII	03 15 35 01.7	13.25N	120.30E	45	4.6b,4.1s			¶97viii0378
NEIC	VIII	03 15 35 01.7	13.38N	120.57E	50	4.3b			
EIDC	VIII	03 15 35 03.5	13.4N	120.6E	49	3.8b,3.7s			
NEIC	Less reliable solution.								
ISC	**VIII**	**09 10 58 26.3**±.61	**12.04N**±.055	**120.7E**±.10	**33**	**3.9b**	**15**	**2-80**	
BJI	VIII	09 10 58 18.4	11.61N	121.44E	28				¶97viii1237
EIDC	VIII	09 10 58 28.6	11.7N	121.8E	0	3.8b,3.4s			
NEIC	VIII	09 10 58 32.2	11.69N	121.73E	33	4.3b			
NEIC	Poor solution.								
ISC	**VIII**	**09 14 25 43.9**±.59	**13.75N**±.036	**120.80E**±.058	**122**±5.3	**4.6b**	**127**	**0-171**	
MOS	VIII	09 14 25 34.3	13.7N	120.6E	33	5.5b			¶97viii1267
BJI	VIII	09 14 25 42.2	13.69N	120.91E	117	5.0b			

Agency	mo	Origin Time d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	VIII	09	14	25	42.4	13.72N	120.74E	109	4.7b		
EIDC	VIII	09	14	25	43.9	13.8N	120.8E	113	4.2b,3.5s		
ISC	**VIII**	**16**	**01**	**47**	**44.0**±.87	**13.50N**±.083	**120.8E**±.12	**33**	**4.0b**,3.3s	**12**	**1-39**
EIDC	VIII	16	01	47	40.8	13.6N	121.0E	0	4.1b,3.7s		¶97viii2303
NEIC	VIII	16	01	47	43.6	13.54N	120.95E	33			
NEIC	Single network solution.										
ISC	**VIII**	**26**	**03**	**56**	**26**±1.4	**12.0N**±.24	**120.1E**±.32	**33**	**3.9b**	**4**	**21-81**
EIDC	VIII	26	03	56	22.9	12.1N	120.2E	0	3.9b		¶97viii3782
ISC	Poorly determined										
ISC	**IX**	**06**	**09**	**07**	**46**±1.1	**12.14N**±.095	**120.7E**±.14	**33**		**5**	**1-4**
											¶97ix0894
ISC	**IX**	**07**	**14**	**32**	**03.7**±.53	**13.79N**±.026	**120.73E**±.049	**117**±5.3	**4.9b**	**119**	**0-151**
HRVD	IX	07	14	32	01.2±.2	13.93N±.01	120.57E±.02	102±1.6			¶97ix1083
NEIC	IX	07	14	32	02.2	13.77N	120.73E	104	5.0b		
BJI	IX	07	14	32	03.2	13.72N	120.81E	121	5.2b		
EIDC	IX	07	14	32	04.2	13.8N	120.7E	108	4.4b,3.4s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s10,c11; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.34±1.22; $M_{\theta\theta}$4.11±1.50; $M_{\phi\phi}$−2.77±2.56; $M_{r\theta}$2.71±1.02; $M_{r\theta}$0.00±1.49; $M_{\theta\phi}$0.87±.95. Principal Axes: T 5.31,Plg22°, Azm354°; N −2.27,Plg55°,Azm120°; P −3.03,Plg25°,Azm253°. Best double couple: $M_0$4.2×10^{16}Nm, NP1:ϕ_S34°,δ55°,λ−178°. NP2:ϕ_S303°,δ88°,λ−35°.										
NEIC	Mw5.0(HRV).										
ISC	**IX**	**09**	**23**	**53**	**09**±3.7	**12.14N**±.049	**120.66E**±.074	**13**±24	**4.3b,4.2s**	**40**	**1-150**
EIDC	IX	09	23	53	08.4	12.2N	121.0E	0	4.0b		¶97ix1455
BJI	IX	09	23	53	09.4	12.43N	120.59E	5	4.6b,4.3s		
NEIC	IX	09	23	53	11.4	12.22N	120.86E	33	4.6b		
NEIC	Less reliable solution.										
ISC	**IX**	**11**	**23**	**53**	**46**±1.7	**12.4N**±.12	**121.0E**±.18	**58**±18	**3.9b**	**12**	**1-94**
EIDC	IX	11	23	53	41.1	12.4N	121.0E	0	3.9b		¶97ix1747
ISC	**IX**	**28**	**22**	**09**	**55**±2.0	**12.13N**±.045	**120.71E**±.068	**27**±15	**4.5b,4.3s**	**56**	**2-150**
EIDC	IX	28	22	09	52.1	12.1N	120.8E	0	4.3b,4.2s		¶97ix4768
BJI	IX	28	22	09	55.1	12.19N	120.74E	32	4.6b,4.6s		
NEIC	IX	28	22	09	55.6	12.10N	120.69E	33	4.8b,4.3s		
NEIC	Less reliable solution.										
ISC	**IX**	**28**	**22**	**13**	**32**±1.1	**12.08N**±.064	**120.72E**±.095	**36**±11	**4.1b**,3.9s	**21**	**2-93**
EIDC	IX	28	22	13	28.4	12.1N	120.8E	0	4.0b,3.9s		¶97ix4769
BJI	IX	28	22	13	31.7	12.10N	120.80E	33	4.6b		
NEIC	IX	28	22	13	31.7	12.06N	120.77E	33	4.4b		
NEIC	Less reliable solution.										
ISC	**X**	**03**	**05**	**58**	**12**±1.4	**13.41N**±.072	**120.6E**±.13	**74**±14	**4.1b**	**32**	**3-91**
EIDC	X	03	05	58	11.4	13.4N	120.6E	52	4.0b		¶97x0404
BJI	X	03	05	58	14.6	13.30N	120.40E	100	4.2b		
NEIC	X	03	05	58	14.6	13.34N	120.44E	100	4.3b		
NEIC	Less reliable solution.										
ISC	**X**	**07**	**10**	**06**	**15.0**±.83	**13.7N**±.16	**120.1E**±.24	**33**	**4.0b**,3.1s	**8**	**21-79**
EIDC	X	07	10	06	12.0	13.7N	120.2E	0	4.0b,3.1s		¶97x1224
NEIC	X	07	10	06	14.9	13.68N	120.08E	33	4.1b		
NEIC	Less reliable solution.										
EIDC	**X**	**15**	**12**	**02**	**23.8**	**13.6N**	**120.7E**	**0**	**3.6b**		¶97x2625
EIDC	LO CONF Location										
ISC	**X**	**24**	**16**	**57**	**20**±6.3	**12.3N**±.20	**121.7E**±.51	**27**±49	**3.5b**	**9**	**1-81**
EIDC	X	24	16	57	17.3	12.5N	122.1E	0	3.5b		¶97x4199
ISC	**XI**	**12**	**17**	**46**	**41.8**±.64	**13.16N**±.062	**120.4E**±.10	**33**	**4.2b**	**13**	**1-49**
EIDC	XI	12	17	46	37.5	13.4N	120.7E	0	4.5b		¶97xi2013
NEIC	**XI**	**25**	**07**	**06**	**57.8**	**13.38N**	**121.27E**	**33**	4.0b		**0-81**
EIDC	XI	25	07	06	54.5	13.5N	121.4E	0	3.9b		¶97xi4464
NEIC	Poor solution.										
ISC	**XII**	**03**	**01**	**41**	**39.1**±.74	**13.9N**±.15	**121.4E**±.22	**150**	**3.8b**	**12**	**0-79**
EIDC	XII	03	01	41	23.9±.90	14.1N	121.7E	0	4.0b		¶97xii0349
NEIC	XII	03	01	41	26.6	14.12N	121.64E	33	4.2b		
EIDC	Error ellipse is semi−major=39.0km semi−minor=18.2km azimuth=61										
NEIC	Less reliable solution.										
ISC	**XII**	**15**	**12**	**37**	**57.2**±.98	**14.0N**±.12	**120.6E**±.35	**136**±8.3	**3.6b**	**15**	**0-93**
NEIC	XII	15	12	38	04.2	14.02N	120.97E	200			¶97xii3285
EIDC	XII	15	12	38	06.0	14.0N	120.9E	203±128.2	3.4b		
NEIC	Less reliable solution.										
EIDC	Origin time error = 12.70Error ellipse is semi−major=60.6km semi−minor=18.1km azimuth=60										
ISC	**XII**	**17**	**22**	**53**	**18.9**±.60	**13.97N**±.058	**120.74E**±.067	**125**±5.5	**4.3b**	**54**	**0-107**
BJI	XII	17	22	53	17.4	13.86N	120.79E	119	4.3b		¶97xii3675
NEIC	XII	17	22	53	17.6	13.95N	120.79E	115	4.4b		
EIDC	XII	17	22	53	19.6±.74	13.9N	120.8E	119±8.2	3.8b,3.0s		
EIDC	Error ellipse is semi−major=23.7km semi−minor=13.6km azimuth=70										

(251) Samar.

ISC	**VII**	**18**	**19**	**28**	**41**±3.0	**11.6N**±.13	**125.7E**±.26	**48**±30	**3.7b**	**9**	**5-85**
NEIC	VII	18	19	28	39.4	11.68N	125.73E	33			¶97vii2778
EIDC	VII	18	19	28	42.5	11.7N	125.8E	47	3.6b		
NEIC	Less reliable solution.										
ISC	**VII**	**26**	**15**	**37**	**28.0**±.39	**12.53N**±.065	**125.6E**±.14	**42**±4.5*	**4.3b,4.2s**	**40**	**5-117**
EIDC	VII	26	15	37	23.9	12.5N	125.6E	0	3.9b,3.9s		¶97vii3980
BJI	VII	26	15	37	25.9	12.56N	125.76E	32	4.6b,4.4s		
NEIC	VII	26	15	37	27.1	12.54N	125.51E	33	4.6b		
NEIC	Less reliable solution.										
ISC	**VIII**	**13**	**07**	**09**	**23**±1.0	**12.86N**±.056	**124.4E**±.10	**70**±10	**4.4b**	**50**	**2-149**
BJI	VIII	13	07	09	18.9	12.86N	124.55E	29	4.6b,4.6s		¶97viii1868
NEIC	VIII	13	07	09	19.0	12.81N	124.37E	29	4.4b		
EIDC	VIII	13	07	09	19.8	12.8N	124.6E	30	4.1b,4.3s		
NEIC	Less reliable solution.										
ISC	**IX**	**16**	**15**	**06**	**32**±1.4	**12.9N**±.14	**125.9E**±.24	**33**	**3.8b**	**6**	**2-47**
EIDC	IX	16	15	06	42.6	11.4N	126.4E	0	3.5b		¶97ix2401
ISC	**IX**	**24**	**10**	**48**	**30**±1.1	**12.23N**±.058	**125.3E**±.14	**47**±12	**4.2b**	**24**	**1-78**
NEIC	IX	24	10	48	26.9	12.20N	125.23E	23	4.7b		¶97ix3566
EIDC	IX	24	10	48	28.3	12.2N	125.3E	22	4.0b		
BJI	IX	24	10	48	30.8	12.70N	124.86E	5	4.3b		
NEIC	Less reliable solution.										
ISC	**X**	**05**	**05**	**32**	**02**±1.1	**13.0N**±.11	**125.9E**±.17	**33**	**3.8b**	**8**	**2-48**
EIDC	X	05	05	31	59.9	12.9N	126.0E	0	3.8b		¶97x0808
ISC	**X**	**06**	**09**	**13**	**43**±1.6	**12.8N**±.19	**124.5E**±.43	**83**±15	**4.0b**	**12**	**2-83**
EIDC	X	06	09	13	34.1	12.7N	124.0E	0	4.1b,3.1s		¶97x1023
ISC	**X**	**10**	**15**	**05**	**25**±4.4	**12.2N**±.32	**125.3E**±.46	**34**±40	**3.9b**	**6**	**6-84**
EIDC	X	10	15	05	21.2	12.4N	125.4E	0	3.9b		¶97x1765
ISC	**X**	**12**	**19**	**50**	**28.3**±.98	**11.42N**±.045	**125.69E**±.091	**52**±9.6	**4.4b,3.9s**	**48**	**1-147**
NEIC	X	12	19	50	26.2	11.40N	125.66E	33	4.6b		¶97x2092
BJI	X	12	19	50	26.4	11.04N	126.12E	65	4.4b,4.7s		
EIDC	X	12	19	50	27.6	11.4N	125.7E	32	4.1b,3.7s		
EIDC	**X**	**29**	**05**	**42**	**00.8**	**12.7N**	**124.9E**	**0**	**3.5b**		¶97x4860
ISC	**XI**	**10**	**12**	**03**	**52**±1.3	**12.0N**±.12	**125.7E**±.17	**33**	**4.0b**	**10**	**1-46**
EIDC	XI	10	12	04	04.3	10.5N	127.1E	0	3.8b,4.5L		¶97xi1610
EIDC	LO CONF Location										
ISC	**XI**	**10**	**21**	**08**	**11.0**±.98	**11.9N**±.11	**125.9E**±.15	**33**	**3.8b**	**11**	**1-84**
EIDC	XI	10	21	08	08.4	11.8N	125.6E	0	3.8b		¶97xi1675
NEIC	XI	10	21	08	10.9	11.90N	125.72E	33	4.4b		
NEIC	Poor solution.										
ISC	**XI**	**13**	**15**	**35**	**34**±1.1	**11.73N**±.085	**125.2E**±.17	**69**±11	**3.8b**	**24**	**1-118**
NEIC	XI	13	15	35	30.0	11.78N	125.32E	33	4.2b		¶97xi2160
EIDC	XI	13	15	35	40.4	11.7N	125.2E	114	3.5b		
NEIC	Less reliable solution.										
ISC	**XI**	**16**	**11**	**45**	**05**±1.2	**11.7N**±.13	**125.8E**±.17	**33**	**3.7b**	**7**	**1-62**
EIDC	XI	16	11	45	03.5	11.5N	125.8E	0	3.8b		¶97xi2641
ISC	**XII**	**01**	**15**	**54**	**22**±1.1	**12.8N**±.12	**124.1E**±.19	**51**±12	**3.6b**	**16**	**2-78**
EIDC	XII	01	15	54	16.9±.91	12.7N	124.0E	0	3.7b		¶97xii0108
NEIC	XII	01	15	54	20.1	12.70N	124.06E	33	4.1b		
EIDC	Error ellipse is semi−major=42.5km semi−minor=18.0km azimuth=69										
NEIC	Poor solution.										
EIDC	**XII**	**18**	**01**	**26**	**07.1**	**12.8N**	**124.3E**	**0**	**3.7b**		**27-37**
											¶97xii3690
EIDC	Origin time error = 12.89Error ellipse is semi−major=598.6km semi−minor=28.7km azimuth=95										
ISC	**XII**	**25**	**21**	**15**	**11**±1.3	**11.25N**±.086	**125.6E**±.13	**81**±9.8	**4.3b**	**44**	**1-165**
EIDC	XII	25	21	15	03.1±.64	11.2N	125.5E	0	4.2b		¶97xii4989
NEIC	XII	25	21	15	06.1	11.23N	125.42E	33	4.6b		
EIDC	Error ellipse is semi−major=37.8km semi−minor=14.8km azimuth=67										
NEIC	Less reliable solution.										

(252) Palawan.

ISC	**VIII**	**13**	**04**	**20**	**54.5**±.94	**11.8N**±.11	**119.2E**±.16	**33**	**4.3b**	**8**	**3-38**
EIDC	VIII	13	04	20	44.1	13.3N	120.5E	0	4.0b		¶97viii1850

(253) Sulu Sea.

EIDC	**VII**	**03**	**03**	**46**	**18.3**	**9.8N**	**120.8E**	**0**	**4.3b**,3.8s		**32-46**
											¶97vii0350
ISC	**VIII**	**07**	**06**	**57**	**08**±3.0	**9.8N**±.19	**121.6E**±.23	**66**±30	**3.5b**	**9**	**3-122**
EIDC	VIII	07	06	57	01.4	10.0N	121.6E	0	3.7b,3.1s		¶97viii0901
EIDC	**IX**	**01**	**14**	**20**	**30.3**	**10.4N**	**120.4E**	**0**	**3.6b**		¶97ix0114

(254) Panay.

ISC	**VII**	**15**	**04**	**45**	**17**±4.0	**10.51N**±.072	**122.3E**±.13	**51**±37	**4.4b**,3.7s	**34**	**20-168**
EIDC	VII	15	04	45	12.0	10.6N	122.3E	0	4.3b,3.7s		¶97vii2255
BJI	VII	15	04	45	14.6	10.47N	122.39E	34	4.5b,4.3s		
NEIC	VII	15	04	45	15.2	10.60N	122.44E	33	4.6b		
NEIC	Less reliable solution.										
ISC	**X**	**16**	**10**	**35**	**44.0**±.47	**10.01N**±.064	**121.2E**±.12	**33**	**4.1b,3.6s**	**33**	**3-122**
EIDC	X	16	10	35	40.8	10.0N	121.2E	0	4.0b,3.6s		¶97x2824
BJI	X	16	10	35	44.1	10.48N	121.03E	4	4.2b,4.3s		
NEIC	X	16	10	35	44.1	9.99N	121.23E	33	4.4b,3.8s		
NEIC	Less reliable solution.										

(255) Cebu.

ISC	**VIII**	**18**	**00**	**42**	**53**±1.3	**11.9N**±.17	**123.7E**±.22	**33**	**3.9b**	**14**	**1-92**
EIDC	VIII	18	00	42	51.9	12.0N	125.0E	0	3.9b		¶97viii2604
NEIC	VIII	18	00	42	55.3	11.92N	124.94E	33	4.3b		
NEIC	Poor solution.										
EIDC	**X**	**09**	**08**	**13**	**38.7**	**10.8N**	**123.9E**	**0**	**3.9b**		¶97x1555
ISC	**X**	**18**	**16**	**14**	**39**±1.6	**11.9N**±.14	**124.0E**±.23	**34**±16	**3.9b**	**10**	**1-83**
EIDC	X	18	16	14	35.6	11.9N	124.0E	0	3.9b		¶97x3194
EIDC	**XII**	**02**	**13**	**14**	**20.8**±2.23	**11.2N**	**123.4E**	**0**	**4.1b**		**29-46**
											¶97xii0253
EIDC	Error ellipse is semi−major=447.1km semi−minor=23.5km azimuth=75LO CONF Location										

(256) Leyte.

ISC	**VII**	**07**	**04**	**28**	**47**±3.0	**10.92N**±.071	**125.9E**±.14	**156**±30	**4.3b**	**28**	**4-92**
EIDC	VII	07	04	28	25.7	11.1N	124.7E	0	4.1b		¶97vii0990
NEIC	VII	07	04	28	29.3	11.04N	124.63E	33	4.7b		
BJI	VII	07	04	28	39.3	11.00N	124.60E	33	4.6b		
NEIC	Less reliable solution.										
ISC	**VII**	**14**	**13**	**31**	**09**±1.6	**10.87N**±.081	**125.9E**±.16	**207**±17	**4.1b**	**31**	**4-147**
EIDC	VII	14	13	30	48.5	10.9N	126.0E	0	4.2b,3.7s		¶97vii2138
BJI	VII	14	13	30	50.8	10.85N	126.21E	33	4.6b,4.1s		
NEIC	VII	14	13	30	51.4	10.95N	126.08E	33	4.8b		
NEIC	Less reliable solution.										
ISC	**VIII**	**21**	**19**	**18**	**48.4**±.90	**10.90N**±.037	**124.52E**±.062	**58**±9.0	**4.5b,4.1s**	**68**	**1-147**
NEIC	VIII	21	19	18	49.7	10.89N	124.46E	74	4.8b		¶97viii3129
BJI	VIII	21	19	18	50.0	10.83N	124.34E	75	4.7b,4.4s		
EIDC	VIII	21	19	18	51.8	10.9N	124.6E	75	4.0b,3.9s		
ISC	**VIII**	**29**	**04**	**19**	**28**±1.0	**10.94N**±.079	**125.0E**±.45	**37**±11	**4.2b**	**14**	**0-118**
EIDC	VIII	29	04	19	25.4	10.9N	124.8E	0	4.1b		¶97viii4231
ISC	**IX**	**05**	**14**	**16**	**18**±1.7	**11.56N**±.087	**124.5E**±.16	**27**±13	**4.0b,3.8s**	**20**	**1-118**
EIDC	IX	05	14	16	15.9	11.5N	124.4E	0	4.0b,3.9s		¶97ix0754
ISC	**IX**	**12**	**14**	**34**	**29.1**±.97	**11.2N**±.16	**124.0E**±.17	**33**	**4.0b**	**6**	**1-84**
EIDC	IX	12	14	34	25.8	11.4N	124.5E	0	4.0b		¶97ix1825
EIDC	**IX**	**30**	**04**	**15**	**15.0**	**11.6N**	**124.7E**	**0**	**3.6b**		¶97ix5120
ISC	**X**	**24**	**10**	**17**	**29**±1.0	**11.40N**±.090	**124.9E**±.21	**44**±9.4	**4.0b**,3.4s	**23**	**0-148**
EIDC	X	24	10	17	23.7	11.4N	125.0E	0	4.0b,3.2s		¶97x4146
NEIC	X	24	10	17	27.1	11.34N	124.97E	33	4.4b		
NEIC	Less reliable solution.										
ISC	**XI**	**23**	**08**	**04**	**58**±4.5	**10.4N**±.71	**125.3E**±.77	**33**	**3.9b**	**6**	**27-45**
EIDC	XI	23	08	04	55.3	10.4N	125.2E	0	4.0b		¶97xi4069
EIDC	LO CONF Depth										
ISC	**XII**	**20**	**15**	**45**	**48.3**±.69	**10.11N**±.032	**126.00E**±.049	**71**±6.2	**4.8b**	**148**	**1-164**
NEIC	XII	20	15	45	44.1	10.14N	126.03E	33	5.0b		¶97xii4136
BJI	XII	20	15	45	44.3	9.68N	126.12E	61	5.1b,4.5s		
MOS	XII	20	15	45	44.5	10.1N	125.7E	33	5.5b		
EIDC	XII	20	15	45	45.7±.46	10.0N	125.9E	34±3.2	4.6b,4.4s		
HRVD	XII	20	15	45	48.8±.9	9.85N±.10	126.19E±.09	49±7.9			
NEIC	Mw5.2(HRV).										
EIDC	Error ellipse is semi−major=21.5km semi−minor=10.1km azimuth=74										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}6.08±.48; $M_{\theta\theta}$−0.65±.90; $M_{\phi\phi}$−5.43±.95; $M_{r\theta}$4.14±1.41; $M_{r\theta}$3.85±1.11; $M_{\theta\phi}$−0.10±.61. Principal Axes: T 8.89,Plg63°,Azm328°; N −1.96,Plg17°,Azm201°; P −6.93,Plg20°,Azm105°. Best double couple: $M_0$7.9×10^{16}Nm, NP1:ϕ_S168°,δ29°,λ53°. NP2:ϕ_S29°,δ67°,λ108°.										

ISC	**XII 23 17 47 49.4**±.96	**10.51N**±.071	**125.7E**±.11	**92**±8.3	**4.3b**	**37**	**1-147**	
NEIC	XII 23 17 47 51.0	10.52N	125.74E	106	4.5b			**¶97xii4633**
EIDC	XII 23 17 47 52.9±.76	10.5N	125.7E	105±6.5	3.9b,2.9s			
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=33.7km semi−minor=10.7km azimuth=72							

(257) Negros.

ISC	**VIII 09 14 29 05**±1.1	**9.59N**±.046	**122.18E**±.083	**73**±11	**4.4b**	**48**	**3-147**	
BJI	VIII 09 14 29 00.4	9.55N	122.45E	29	4.9b			**¶97viii1268**
NEIC	VIII 09 14 29 01.1	9.60N	122.22E	33	4.6b			
EIDC	VIII 09 14 29 02.4	9.6N	122.3E	30	4.2b,3.6s			
ISC	**VIII 13 11 45 13.3**±.75	**9.57N**±.051	**123.18E**±.076	**173**±7.9	**4.4b**	**47**	**2-167**	
NEIC	VIII 13 11 45 11.0	9.56N	123.13E	150	4.6b			**¶97viii1900**
EIDC	VIII 13 11 45 13.3	9.5N	123.1E	158	3.9b			
ISC	**VIII 15 02 16 59**±4.7	**9.50N**±.085	**122.5E**±.42	**80**±39	**4.2b**	**20**	**2-147**	
BJI	VIII 15 02 16 53.1	9.41N	122.47E	32	4.5b			**¶97viii2147**
NEIC	VIII 15 02 16 53.4	9.55N	122.52E	33	4.4b			
EIDC	VIII 15 02 16 56.3	9.6N	122.6E	41	4.0b			
NEIC	Less reliable solution.							
EIDC	**X 06 15 47 22.5**	**9.6N**	**122.8E**	**0**	**3.8b**			**¶97x1072**
ISC	**X 21 17 23 52**±1.5	**9.7N**±.22	**123.5E**±.81	**33**	**3.7b**	**6**	**31-81**	
EIDC	X 21 17 23 50.5	9.9N	124.2E	0	3.6b			**¶97x3684**

(259) Mindanao.

ISC	**VII 02 19 59 54**±4.0	**10.0N**±.22	**126.0E**±.35	**69**±36	**3.7b**	**8**	**3-87**	
EIDC	VII 02 19 59 47.6	10.2N	126.1E	0	3.8b,4.3L			**¶97vii0295**
NEIC	VII 02 19 59 50.1	10.14N	126.21E	33				
NEIC	Poor solution.							
ISC	**VII 08 16 47 16**±2.3	**6.01N**±.096	**126.1E**±.23	**33**±24	**4.1b**	**16**	**1-83**	
EIDC	VII 08 16 47 13.3	6.1N	126.2E	0	4.0b,4.6L			**¶97vii1210**
BJI	VII 08 16 47 15.6	6.00N	126.10E	29	4.7b			
NEIC	VII 08 16 47 16.5	6.01N	126.14E	33	4.2b			
NEIC	Less reliable solution.							
EIDC	**VII 09 08 36 39.2**	**6.9N**	**124.9E**	**0**	**3.6b**		**28-83**	
								¶97vii1301
ISC	**VII 10 03 40 31.3**±.97	**7.98N**±.030	**126.59E**±.040	**67**±9.1	**5.1b**	**241**	**1-171**	
MOS	VII 10 03 40 28.7	8.0N	126.3E	40	5.8b			**¶97vii1440**
NEIC	VII 10 03 40 29.4	7.99N	126.59E	50	5.3b,4.5s			
BJI	VII 10 03 40 29.7	8.08N	126.74E	60	4.9b,4.6s			
EIDC	VII 10 03 40 32.8	7.9N	126.6E	67	5.0b,4.3s			
HRVD	VII 10 03 40 34.1±.6	7.73N±.08	126.72E±.08	55				
NEIC	Mw5.3(HRV).							

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}8.06±.65; $M_{\theta\theta}$−0.88±1.47; $M_{\phi\phi}$−7.18±1.37; $M_{r\theta}$6.90±1.94; $M_{r\phi}$2.24±1.40; $M_{\theta\phi}$−1.30±.78. Principal Axes: T 11.9,Plg62°,Azm351°; N −3.4,Plg22°,Azm212°; P −8.5,Plg17°,Azm115°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S176°,δ34°,λ48°. NP2:ϕ_S43°,δ65°,λ114°.

ISC	**VII 10 19 46 44**±2.1	**8.8N**±.12	**126.4E**±.23	**94**±21	**4.0b**	**11**	**2-145**	
NEIC	VII 10 19 46 37.2	8.72N	126.55E	33	4.2b			**¶97vii1554**
EIDC	VII 10 19 46 45.5	8.8N	126.5E	90	3.8b,3.3s			
NEIC	Less reliable solution.							
EIDC	**VII 12 20 39 50.0**	**8.0N**	**126.2E**	**0**	**3.7b**		**29-42**	
								¶97vii1868
ISC	**VII 28 13 47 37.8**±.94	**6.2N**±.12	**123.7E**±.14	**33**	**3.4b**	**7**	**2-42**	
EIDC	VII 28 13 47 34.9	6.2N	123.7E	0	3.7b,4.4L			**¶97vii4282**
ISC	**VII 30 05 07 03**±1.6	**9.5N**±.19	**126.7E**±.96	**33**	**3.7b**	**5**	**30-80**	
EIDC	VII 30 05 07 00.5	9.5N	126.4E	0	3.8b			**¶97vii4534**
ISC	**VII 31 14 07 46**±1.6	**5.55N**±.075	**126.4E**±.19	**69**±15	**4.1b**	**24**	**2-97**	
NEIC	VII 31 14 07 45.7	5.54N	126.52E	64	4.3b			**¶97vii4740**
EIDC	VII 31 14 07 45.8	5.5N	126.5E	45	3.8b,3.8s			
BJI	VII 31 14 07 49.3	5.51N	125.95E	93	4.5b			
NEIC	Less reliable solution.							
ISC	**VIII 02 10 52 03**±2.6	**5.0N**±.20	**124.5E**±.32	**135**±32	**3.5b**	**8**	**3-90**	
EIDC	VIII 02 10 51 50.0	5.1N	124.8E	0	3.8b			**¶97viii0201**
ISC	**VIII 03 20 05 16**±2.0	**5.7N**±.14	**126.7E**±.40	**58**±19	**4.2b**	**15**	**3-91**	
EIDC	VIII 03 20 05 09.7	5.8N	126.7E	0	4.1b			**¶97viii0406**
NEIC	VIII 03 20 05 13.0	5.79N	126.67E	33	4.4b			
NEIC	Poor solution.							
ISC	**VIII 04 08 54 31**±1.9	**5.0N**±.10	**125.5E**±.19	**78**±20	**3.7b**	**16**	**3-122**	
EIDC	VIII 04 08 54 23.0	5.0N	124.9E	0	3.8b			**¶97viii0479**
NEIC	VIII 04 08 54 26.5	4.91N	124.95E	33	4.0b			
NEIC	Poor solution.							
ISC	**VIII 05 14 46 42.3**±.77	**9.39N**±.030	**126.48E**±.052	**63**±7.5	**4.6b**	**91**	**1-145**	
NEIC	VIII 05 14 46 39.0	9.39N	126.41E	33	4.9b			**¶97viii0681**
BJI	VIII 05 14 46 39.1	9.38N	126.41E	32	4.6b,4.5s			
EIDC	VIII 05 14 46 40.3	9.3N	126.4E	32	4.3b,4.1s			
EIDC	**VIII 07 09 23 22.9**	**5.5N**	**125.7E**	**0**	**4.1b**		**27-121**	
								¶97viii0915
ISC	**VIII 08 00 47 22.8**±.92	**7.19N**±.074	**126.6E**±.18	**178**±8.7	**4.3b**	**34**	**1-130**	
BJI	VIII 08 00 47 20.0	7.25N	126.79E	155	5.3b			**¶97viii1030**
NEIC	VIII 08 00 47 20.0	7.24N	126.54E	150	4.5b			
EIDC	VIII 08 00 47 25.7	7.2N	126.6E	186	3.8b			
NEIC	Less reliable solution.							
ISC	**VIII 09 16 59 14**±2.1	**5.1N**±.13	**127.0E**±.36	**126**±24	**4.0b**	**15**	**3-84**	
NEIC	VIII 09 16 59 04.5	5.14N	126.94E	33	4.3b			**¶97viii1288**
BJI	VIII 09 16 59 05.1	5.14N	127.01E	34	4.4b			
EIDC	VIII 09 16 59 20.0	5.0N	126.9E	161	3.6b			
NEIC	Poor solution.							
ISC	**VIII 10 14 13 09.6**±.76	**6.21N**±.032	**126.43E**±.059	**74**±7.0	**5.1b**	**143**	**1-163**	
MOS	VIII 10 14 13 05.3	6.4N	126.6E	38	5.7b			**¶97viii1403**
BJI	VIII 10 14 13 07.6	6.21N	126.60E	64	5.4b,4.7s			
NEIC	VIII 10 14 13 08.2	6.23N	126.37E	61	5.3b			
EIDC	VIII 10 14 13 08.4	6.2N	126.5E	54	4.8b,4.2s			
HRVD	VIII 10 14 13 10.9±.4	6.27N±.05	126.24E±.05	87±5.5				
NEIC	Mw5.4(HRV).							

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c36; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.89±.56; $M_{\theta\theta}$6.67±.70; $M_{\phi\phi}$−5.78±1.09; $M_{r\theta}$−8.97±.58; $M_{r\phi}$7.58±.55; $M_{\theta\phi}$−3.82±.68. Principal Axes: T 15.3,Plg35°,Azm205°; N −3.6, Plg30°,Azm318°; P −11.7,Plg41°,Azm77°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S236°,δ30°,λ−173°. NP2:ϕ_S140°,δ87°,λ−60°.

EIDC	**VIII 11 09 54 30.0**	**8.2N**	**122.1E**	**0**	**4.0b**		**30-44**	
								¶97viii1541
ISC	**VIII 12 08 13 17**±3.3	**7.3N**±.19	**123.8E**±.30	**621**±55	**3.9b**	**15**	**27-94**	
BJI	VIII 12 08 13 14.7	6.95N	123.13E	597	4.1b			**¶97viii1698**
NEIC	VIII 12 08 13 15.3	7.38N	123.85E	600	4.1b			
EIDC	VIII 12 08 13 18.7	7.3N	123.9E	630	2.9b			
NEIC	Less reliable solution.							
ISC	**VIII 17 05 18 02**±2.1	**8.22N**±.097	**123.5E**±.20	**35**±23	**3.6b**,3.6s	**9**	**1-82**	
EIDC	VIII 17 05 17 58.4	8.3N	123.5E	0	3.6b,3.6s			**¶97viii2487**
ISC	**VIII 19 01 32 09**±1.7	**9.73N**±.084	**126.3E**±.17	**57**±14	**4.2b**	**25**	**2-146**	
NEIC	VIII 19 01 32 05.8	9.76N	126.29E	33	4.3b			**¶97viii2744**
EIDC	VIII 19 01 32 07.7	9.8N	126.4E	38	3.8b			
NEIC	Less reliable solution.							
ISC	**VIII 19 11 33 31.8**±.61	**6.63N**±.027	**126.42E**±.047	**84**±5.8	**5.1b**	**122**	**1-163**	
EIDC	VIII 19 11 33 22.7	6.7N	126.3E	0	4.9b,4.0s			**¶97viii2801**
HRVD	VIII 19 11 33 27.5±.2	7.05N±.01	126.15E±.02	46±1.3				
NEIC	VIII 19 11 33 29.8	6.71N	126.43E	69	5.4b			
BJI	VIII 19 11 33 30.3	6.57N	126.47E	67	4.9b			
MOS	VIII 19 11 33 30.6	6.7N	126.4E	74	5.5b			

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c15; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.72±.73; $M_{\theta\theta}$1.38±.76; $M_{\phi\phi}$2.33±1.27; $M_{r\theta}$−9.78±2.44; $M_{r\phi}$1.60±1.33; $M_{\theta\phi}$4.39±.83. Principal Axes: T 9.9,Plg31°,Azm156°; N 2.5, Plg25°,Azm262°; P −12.4,Plg48°,Azm23°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S195°,δ27°,λ−159°. NP2:ϕ_S87°,δ81°,λ−65°.

NEIC Mw5.3(HRV).

ISC	**VIII 21 19 02 24**±1.1	**6.9N**±.14	**127.0E**±.15	**33**	**3.4b**	**8**	**1-41**	
EIDC	VIII 21 19 02 21.8	6.8N	127.0E	0	3.6b,3.9L			**¶97viii3126**
ISC	**VIII 21 20 27 24.1**±.71	**7.15N**±.030	**126.90E**±.045	**60**±6.8	**4.8b**	**114**	**1-163**	
BJI	VIII 21 20 27 22.5	7.27N	126.84E	44	4.8b,4.5s			**¶97viii3139**
NEIC	VIII 21 20 27 23.6	7.13N	126.86E	55	5.0b,4.6s			
EIDC	VIII 21 20 27 26.6	7.1N	126.8E	70	4.4b,4.2s			
HRVD	VIII 21 20 27 28.5±1.2	7.13N	126.86E	25±8.3				
NEIC	Mw5.2(HRV).							

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.38±.70; $M_{\theta\theta}$−1.08±.54; $M_{\phi\phi}$−2.30±.98; $M_{r\theta}$2.41±1.42; $M_{r\phi}$4.60±2.90; $M_{\theta\phi}$−1.14±.64. Principal Axes: T 6.29,Plg61°,Azm296°; N −0.40,Plg1°,Azm29°; P −5.89,Plg29°,Azm119°. Best double couple: $M_0$6.1×10^{16}Nm, NP1: ϕ_S213°,δ16°,λ94°. NP2:ϕ_S28°,δ74°,λ89°.

ISC	**VIII 21 22 01 17.1**±.58	**8.87N**±.071	**126.6E**±.10	**33**	**3.9b,3.5s**	**19**	**1-87**	
EIDC	VIII 21 22 01 14.3	8.9N	126.5E	0	4.1b,3.6s			**¶97viii3146**
NEIC	VIII 21 22 01 17.0	8.87N	126.46E	33	4.0b			
NEIC	Less reliable solution.							
EIDC	**VIII 21 23 44 50.7**	**8.3N**	**124.1E**	**0**	3.5b		**1-82**	
								¶97viii3164
ISC	**VIII 23 06 03 05**±2.1	**7.0N**±.18	**125.8E**±.70	**300**	**3.8b**	**5**	**1-33**	
								¶97viii3347
ISC	**VIII 23 18 33 45.2**±.89	**5.39N**±.029	**126.42E**±.053	**60**±8.4	**4.9b,4.3s**	**129**	**2-168**	
EIDC	VIII 23 18 33 41.1	5.4N	126.3E	14	4.7b,4.3s			**¶97viii3437**
HRVD	VIII 23 18 33 42.1±1.2	5.19N±.10	127.08E±.11	35±5.9				
BJI	VIII 23 18 33 43.7	5.36N	126.50E	51	5.2b,4.5s			
NEIC	VIII 23 18 33 44.1	5.37N	126.33E	49	4.9b,4.4s			

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.82±.49; $M_{\theta\theta}$0.31±.50; $M_{\phi\phi}$−5.13±.80; $M_{r\theta}$4.37±1.15; $M_{r\phi}$2.49±1.03; $M_{\theta\phi}$−2.55±.46. Principal Axes: T 7.54,Plg60°,Azm352°; N −0.03,Plg22°,Azm217°; P −7.51,Plg19°,Azm119°. Best double couple: $M_0$7.5×10^{16}Nm, NP1:ϕ_S177°,δ32°,λ45°. NP2:ϕ_S47°,δ68°,λ114°.

NEIC Mw5.2(HRV).

ISC	**VIII 25 01 10 40.6**±.57	**5.72N**±.026	**126.36E**±.046	**143**±5.6	**5.0b**	**167**	**2-169**	
NEIC	VIII 25 01 10 39.8	5.73N	126.32E	135	5.2b			**¶97viii3616**
BJI	VIII 25 01 10 40.6	5.89N	126.04E	120	5.2b			
EIDC	VIII 25 01 10 41.1	5.7N	126.3E	135	4.6b,4.1s			
HRVD	VIII 25 01 10 42.2±.4	5.80N±.04	126.45E±.05	132±1.6				
NEIC	Mw5.4(HRV).							

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c47; Half duration: 1s0. Moment tensor: Scale 10^{17}Nm; M_{rr}0.96±.05; $M_{\theta\theta}$0.17±.06; $M_{\phi\phi}$−1.13±.07; $M_{r\theta}$−0.50±.04; $M_{r\phi}$0.51±.05; $M_{\theta\phi}$−0.63±.08. Principal Axes: T 1.42,Plg56°,Azm211°; N 0.00, Plg33°,Azm15°; P −1.42,Plg7°,Azm109°. Best double couple: $M_0$1.4×10^{17}Nm, NP1:ϕ_S231°, δ47°,λ138°. NP2:ϕ_S353°,δ60°,λ51°.

EIDC	**VIII 25 11 11 51.5**	**5.9N**	**126.0E**	**0**	3.6b		**2-83**	
								¶97viii3682
ISC	**VIII 26 01 06 55**±2.7	**5.8N**±.11	**126.8E**±.36	**75**±32	**4.0b**	**12**	**2-83**	
EIDC	VIII 26 01 06 48.6	6.0N	127.7E	0	4.1b			**¶97viii3765**
NEIC	VIII 26 01 06 57.4	5.77N	126.54E	100	4.0b			
NEIC	Poor solution.							
ISC	**VIII 28 23 15 33**±3.9	**9.2N**±.13	**126.8E**±.48	**45**±36	**3.8b**	**9**	**1-87**	
EIDC	VIII 28 23 15 29.0	9.0N	126.1E	0	3.8b			**¶97viii4198**
ISC	**VIII 29 00 35 23**±3.5	**9.3N**±.10	**126.9E**±.34	**51**±35	**4.0b**	**11**	**2-87**	
NEIC	VIII 29 00 35 28.3	9.14N	126.63E	100	4.3b			**¶97viii4210**
EIDC	VIII 29 00 35 31.1	9.0N	126.3E	112	3.7b			
NEIC	Less reliable solution.							
ISC	**VIII 29 19 21 59.9**±.74	**5.42N**±.024	**126.47E**±.047	**67**±6.8	**5.0b**	**212**	**2-168**	
MOS	VIII 29 19 21 56.1	5.5N	126.4E	33	5.6b,4.8s			**¶97viii4367**
NEIC	VIII 29 19 21 56.2	5.44N	126.43E	33	5.1b,4.9s			
BJI	VIII 29 19 21 56.3	5.38N	126.13E	27	5.3b,4.8s			
EIDC	VIII 29 19 21 57.1	5.4N	126.4E	25	4.8b,4.7s			
HRVD	VIII 29 19 22 02.5±.3	5.37N±.03	126.93E±.03	36±2.3				
NEIC	Mw5.5(HRV).							

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s38,c66; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.42±.04; $M_{\theta\theta}$0.28±.05; $M_{\phi\phi}$−1.69±.07; $M_{r\theta}$0.18±.10; $M_{r\phi}$0.76±.10; $M_{\theta\phi}$−0.59±.04. Principal Axes: T 1.59,Plg77°,Azm279°; N 0.44, Plg1°,Azm15°; P −2.03,Plg13°,Azm105°. Best double couple: $M_0$1.8×10^{17}Nm, NP1:ϕ_S197°, δ32°,λ93°. NP2:ϕ_S14°,δ58°,λ88°.

EIDC	**VIII 29 20 13 14.8**	**6.5N**	**123.3E**	**0**	**3.9b**		**28-42**	
								¶97viii4374
ISC	**VIII 30 08 51 43.5**±.96	**5.40N**±.052	**126.3E**±.11	**76**±9.5	**4.3b**	**39**	**2-121**	
NEIC	VIII 30 08 51 42.8	5.40N	126.24E	70	4.4b			**¶97viii4462**
BJI	VIII 30 08 51 43.0	5.35N	126.14E	71	4.7b			
EIDC	VIII 30 08 51 44.2	5.4N	126.2E	63	4.1b,3.7s			
ISC	**VIII 30 21 36 48**±1.9	**9.20N**±.090	**126.8E**±.20	**51**±19	**4.1b**,4.0s	**20**	**1-145**	
EIDC	VIII 30 21 36 43.8	9.1N	126.4E	0	4.1b			**¶97viii4536**
NEIC	VIII 30 21 36 46.7	9.11N	126.40E	33	4.8b			
NEIC	Less reliable solution.							
ISC	**VIII 30 21 53 41.8**±.77	**9.25N**±.031	**126.71E**±.050	**52**±7.4	**4.8b,4.8s**	**113**	**1-164**	
EIDC	VIII 30 21 53 36.6	9.2N	126.6E	0	4.6b			**¶97viii4541**
BJI	VIII 30 21 53 42.5	9.30N	126.52E	59	5.1b,4.8s			
NEIC	VIII 30 21 53 44.0	9.21N	126.60E	70	4.9b			
MOS	VIII 30 21 53 44.7	9.3N	126.4E	70	5.3b,4.7s			
ISC	**VIII 30 22 10 24**±1.4	**9.25N**±.047	**126.9E**±.11	**51**±13	**4.6b**,4.5s	**47**	**1-164**	
NEIC	VIII 30 22 10 22.0	9.26N	126.78E	33	4.8b			**¶97viii4546**
BJI	VIII 30 22 10 23.0	9.07N	126.40E	36	4.7b			
EIDC	VIII 30 22 10 30.6	9.1N	126.8E	99	4.1b			
NEIC	Less reliable solution.							
ISC	**VIII 31 09 33 51.5**±.89	**5.23N**±.066	**126.0E**±.16	**110**±11	**4.3b**	**29**	**2-130**	
NEIC	VIII 31 09 33 51.4	5.19N	125.91E	107	4.5b			**¶97viii4631**
EIDC	VIII 31 09 33 52.2	5.2N	125.8E	98	3.9b,3.7s			
NEIC	Less reliable solution.							
ISC	**VIII 31 17 45 01**±1.4	**8.82N**±.069	**126.5E**±.19	**63**±15	**3.9b**	**20**	**1-145**	
NEIC	VIII 31 17 44 58.6	8.90N	127.21E	33	4.2b			**¶97viii4688**
EIDC	VIII 31 17 45 05.4	8.8N	126.5E	91	3.5b			
NEIC	Less reliable solution.							

Agency		Origin Time	φ	λ	h	Mag	n	Δ-Rng
		mo d h m s	°	°	km			°
ISC	**IX**	**01 15 30 25**±1.9	**9.25N**±.072	**126.7E**±.18	**50**±18	**3.9b**	**21**	**1-87**
NEIC	IX	01 15 30 28.9	9.18N	126.65E	86	3.8b		¶97ix0129
EIDC	IX	01 15 30 30.7	9.2N	126.6E	87	3.6b		
NEIC	Less reliable solution.							
ISC	**IX**	**03 10 18 03**±2.0	**9.53N**±.095	**126.5E**±.19	**48**±18	**3.9b**	**14**	**1-87**
NEIC	IX	03 10 18 01.0	9.56N	126.52E	33	4.4b		¶97ix0417
EIDC	IX	03 10 18 16.1	9.4N	126.3E	158	3.2b		
NEIC	Less reliable solution.							
EIDC	LO CONF Depth							
ISC	**IX**	**03 10 35 34.8**±.96	**9.6N**±.14	**126.3E**±.19	**100**	**3.6b**	**9**	**1-94**
EIDC	IX	03 10 35 25.9	9.1N	124.5E	0	3.5b		¶97ix0419
ISC	**IX**	**06 16 12 19.8**±.84	**7.21N**±.059	**126.8E**±.11	**94**±8.3	**4.1b**	**34**	**1-161**
BJI	IX	06 16 12 19.7	7.56N	126.98E	81	4.4b		¶97ix0944
NEIC	IX	06 16 12 19.9	7.22N	126.76E	95	4.4b		
EIDC	IX	06 16 12 21.2	7.1N	126.8E	95	3.9b,3.4s		
NEIC	Less reliable solution.							
ISC	**IX**	**07 19 50 50.7**±.38	**6.27N**±.046	**124.27E**±.073	**33**	**4.4b,4.1s**	**40**	**2-84**
BJI	IX	07 19 51 16.4	5.72N	123.50E	313	4.5b		¶97ix1120
NEIC	IX	07 19 51 17.2	5.88N	123.77E	300	4.2b		
EIDC	IX	07 19 51 21.7	5.8N	123.7E	334	3.5b		
NEIC	Less reliable solution.							
EIDC	**IX**	**08 23 06 12.1**	**7.9N**	**126.1E**	**0**	**3.8b**		¶97ix1293
ISC	**IX**	**10 12 01 44.9**±.92	**8.56N**±.081	**124.3E**±.16	**33**	**3.6b**	**12**	**0-82**
EIDC	IX	10 12 01 43.3	8.7N	124.8E	0	3.7b		¶97ix1521
NEIC	IX	10 12 01 45.1	8.71N	125.02E	33			
NEIC	Single network solution.							
NEIC	Felt at Iligan.							
ISC	**IX**	**12 17 12 44.2**±.57	**5.72N**±.093	**126.1E**±.20	**33**	**4.3b**	**14**	**1-45**
EIDC	IX	12 17 12 32.6	7.2N	127.5E	0	4.6b,4.6L		¶97ix1851
NEIC	IX	12 17 12 33.9	6.16N	123.82E	33	4.4b		
NEIC	Poor solution.							
ISC	**IX**	**15 08 37 53**±1.2	**5.6N**±.15	**125.1E**±.51	**370**±10	**3.5b**	**12**	**2-89**
EIDC	IX	15 08 37 55.8	5.6N	125.4E	374	3.3b		¶97ix2217
ISC	**IX**	**15 13 05 44.7**±.58	**8.09N**±.022	**126.59E**±.028	**69**±5.4	**5.4b**	**385**	**0-171**
BJI	IX	15 13 05 42.0	8.12N	126.51E	48	5.2b,5.7s		¶97ix2247
NEIC	IX	15 13 05 42.7	8.10N	126.64E	51	5.8b,5.7s		
MOS	IX	15 13 05 43.8	8.1N	126.6E	57	6.1b,5.7s		
EIDC	IX	15 13 05 44.1	8.0N	126.5E	49	5.1b		
HRVD	IX	15 13 05 48.9±.1	8.03N±.01	126.93E±.01	51±.5			
NEIC	Mw6.2(GS), Me5.7(GS).							
NEIC	Mw 6.1 (HRV).							
NEIC	Radiated energy from the P−wave first−motion solution: $9.0±1.6×10^{12}$Nm/15							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S20°,δ45°,λ120°. NP2:ϕ_S161°,δ52°,λ63°. Principal axes: T Plg69°,Azm9°; P Plg4°,Azm269°. Depth from synthetics of broadband displacement seismograms.							
NEIC	Moment tensor solution: s27, scale 10^{18}Nm; M_{rr}1.88; $M_{\theta\theta}$0.31; $M_{\phi\phi}$−2.20; $M_{r\theta}$0.18; $M_{r\phi}$0.36; $M_{\theta\phi}$0.26. Depth 39km; Principal axes: T 1.94,Plg81°,Azm322°; N 0.31,Plg7°,Azm175°; P −2.25,Plg5°,Azm85°. Best double couple: $M_0$2.1×10^{18}Nm; NP1:ϕ_S166°,δ41°,λ78°. NP2:ϕ_S1°, δ50°,λ100°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s51,c109; Mantle waves: s38,c55; Half duration: 2s6. Moment tensor: Scale 10^{18}Nm; M_{rr}1.39±.01; $M_{\theta\theta}$0.03±.01; $M_{\phi\phi}$−1.42±.02; $M_{r\theta}$0.35±.02; $M_{r\phi}$0.22±.02; $M_{\theta\phi}$−0.04±.01. Principal Axes: T 1.49,Plg76°,Azm343°; N −0.05,Plg13°,Azm184°; P −1.44,Plg5°,Azm93°. Best double couple: $M_0$1.5×10^{18}Nm, NP1:ϕ_S169°,δ42°,λ70°. NP2:ϕ_S15°,δ51°,λ107°.							
ISC	**IX**	**16 13 43 39.2**±.66	**7.35N**±.063	**126.4E**±.11	**169**±6.1	**4.1b**	**28**	**1-120**
BJI	IX	16 13 43 38.8	7.40N	126.51E	168	4.8b		¶97ix2394
NEIC	IX	16 13 43 39.4	7.34N	126.39E	170	4.6b		
EIDC	IX	16 13 43 40.4	7.4N	126.4E	163	3.7b		
NEIC	Less reliable solution.							
EIDC	**IX**	**17 16 37 59.1**	**6.9N**	**124.2E**	**0**	**3.8b**		¶97ix2532
EIDC	**IX**	**18 23 31 37.3**	**5.0N**	**123.5E**	**0**	**4.3b**		¶97ix2727
ISC	**IX**	**19 16 30 23.2**±.91	**5.61N**±.064	**125.6E**±.19	**79**±14	**4.2b**	**21**	**1-84**
NEIC	IX	19 16 30 23.7	5.60N	125.45E	85	4.3b		¶97ix2814
EIDC	IX	19 16 30 25.4	5.6N	125.5E	84	3.9b		
BJI	IX	19 16 30 33.7	5.60N	125.40E	85	4.7b		
NEIC	Less reliable solution.							
EIDC	**IX**	**19 20 33 43.6**	**6.3N**	**124.8E**	**0**	**3.6b**		¶97ix2843
ISC	**IX**	**21 18 50 12**±1.3	**7.26N**±.049	**126.9E**±.11	**59**±13	**4.2b**	**35**	**1-119**
BJI	IX	21 18 50 12.9	7.30N	126.80E	67	4.4b		¶97ix3145
NEIC	IX	21 18 50 12.9	7.26N	126.79E	67	4.6b		
EIDC	IX	21 18 50 15.0	7.2N	126.8E	69	3.8b		
ISC	**IX**	**24 08 15 56.8**±.82	**6.0N**±.17	**126.8E**±.36	**77**	**3.7b**	**9**	**2-90**
EIDC	IX	24 08 15 58.9	6.2N	127.9E	77	3.6b		¶97ix3547
ISC	**IX**	**24 11 52 05**±1.9	**8.49N**±.071	**126.7E**±.17	**70**±18	**4.3b**	**25**	**1-144**
EIDC	IX	24 11 51 57.3	8.5N	126.7E	0	4.2b		¶97ix3574
NEIC	IX	24 11 52 00.6	8.53N	126.74E	33	4.6b		
NEIC	Less reliable solution.							
ISC	**IX**	**26 20 41 25**±1.3	**9.99N**±.077	**126.0E**±.19	**72**±12	**4.2b**	**22**	**2-94**
NEIC	IX	26 20 41 23.5	10.09N	126.07E	61	4.8b		¶97ix4137
EIDC	IX	26 20 41 25.5	10.0N	126.0E	62	3.9b		
NEIC	Less reliable solution.							
ISC	**IX**	**29 21 35 28.4**±.78	**5.97N**±.052	**125.9E**±.15	**84**±8.4	**4.2b**	**27**	**1-89**
BJI	IX	29 21 35 28.2	5.90N	125.80E	84	4.5b		¶97ix5029
NEIC	IX	29 21 35 28.2	5.99N	125.83E	84	4.4b		
EIDC	IX	29 21 35 30.1	6.0N	125.9E	86	4.0b		
NEIC	Less reliable solution.							
ISC	**X**	**01 09 31 21**±1.9	**7.02N**±.037	**122.45E**±.061	**20**±15	**4.3b,3.7s**	**46**	**2-87**
EIDC	X	01 09 31 19.9	7.0N	122.6E	0	4.1b,3.9s		¶97x0065
NEIC	X	01 09 31 22.4	7.04N	122.48E	33	4.7b		
BJI	X	01 09 31 23.4	7.00N	122.50E	33	4.6b		
ISC	**X**	**02 03 58 51**±1.2	**9.88N**±.089	**124.8E**±.23	**33**	**3.8b**	**8**	**1-45**
EIDC	X	02 03 57 45.2	16.2N	119.0E	0	3.8b		¶97x0200
ISC	**X**	**03 09 32 28**±1.7	**9.95N**±.073	**124.0E**±.18	**45**±16	**3.9b**,4.4s	**19**	**2-85**
EIDC	X	03 09 32 23.7	10.0N	124.1E	0	3.8b		¶97x0439
NEIC	X	03 09 32 26.9	9.90N	124.03E	33	4.2b		
NEIC	Less reliable solution.							
ISC	**X**	**03 17 10 05.1**±.95	**9.01N**±.063	**126.2E**±.12	**69**±10	**4.1b**	**19**	**1-87**
NEIC	X	03 17 10 06.1	9.02N	126.28E	80	5.0b		¶97x0496
EIDC	X	03 17 10 07.8	8.8N	126.4E	94	3.7b		
NEIC	Less reliable solution.							
EIDC	**X**	**03 21 05 44.7**	**6.0N**	**123.2E**	**0**	**3.7b**		¶97x0523
ISC	**X**	**05 07 37 43.5**±.62	**5.59N**±.061	**123.3E**±.11	**616**±10	**4.2b**	**32**	**3-89**
NEIC	X	05 07 37 42.2	5.69N	123.40E	600	4.6b		¶97x0824
EIDC	X	05 07 37 47.8	5.5N	123.3E	663	3.4b		
BJI	X	05 07 37 49.8	6.18N	122.63E	600	4.3b		
ISC	**X**	**05 19 00 04.4**±.39	**5.66N**±.022	**125.45E**±.032	**247**±4.0	**5.4b**	**343**	**1-168**
NEIC	X	05 19 00 02.3	5.68N	125.45E	224	5.6b		¶97x0914
BJI	X	05 19 00 02.8	5.63N	125.37E	231	5.5b		
MOS	X	05 19 00 03.6	5.8N	125.4E	231	5.6b		
EIDC	X	05 19 00 04.3	5.6N	125.5E	231	5.1b		
HRVD	X	05 19 00 09.1±.6	5.58N±.06	126.05E±.06	205±3.5			
NEIC	Mw5.8(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c25; Mantle waves: s9,c10; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}4.94±.35; $M_{\theta\theta}$−1.55±.58; $M_{\phi\phi}$−3.39±.61; $M_{r\theta}$−2.26±.44; $M_{r\phi}$3.51±.46; $M_{\theta\phi}$1.92±.63. Principal Axes: T 6.51,Plg69°,Azm237°; N −0.34,Plg0°,Azm328°; P −6.17,Plg21°,Azm58°. Best double couple: $M_0$6.3×10^{17}Nm, NP1:ϕ_S148°,δ24°,λ91°. NP2:ϕ_S327°,δ66°,λ90°.							
ISC	**X**	**06 12 30 07.5**±.44	**9.76N**±.021	**125.80E**±.030	**124**±4.1	**5.9b**	**461**	**2-172**
MOS	X	06 12 30 04.2	9.9N	125.7E	88	6.2b		¶97x1048
NEIC	X	06 12 30 05.8	9.79N	125.78E	106	5.9b		
BJI	X	06 12 30 06.4	9.89N	125.81E	111	5.9b		
EIDC	X	06 12 30 08.3	9.7N	125.8E	124	5.6b		
HRVD	X	06 12 30 11.4±.1	9.79N±.01	125.95E±.01	114±.5			
NEIC	Mw6.5(GS), Me5.8(GS)							
NEIC	Mw 6.4 (HRV). Felt I=III RF in eastern Cebu. M_0=9.6×10^{18}Nm (PPT).							
NEIC	Radiated energy from the P−wave first−motion solution: 1.0±0.2×10^{13}Nm/13							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S0°,δ65°,λ100°. NP2:ϕ_S157°,δ27°,λ70°. Principal axes: T Plg68°,Azm290°; P Plg19°,Azm83°. Depth from synthetics of broadband displacement seismograms.							
NEIC	Moment tensor solution: s25, scale 10^{18}Nm; M_{rr}1.86; $M_{\theta\theta}$1.28; $M_{\phi\phi}$−3.13; $M_{r\theta}$1.06; $M_{r\phi}$3.49; $M_{\theta\phi}$3.17. Depth 109km; Principal axes: T 5.29,Plg42°,Azm319°; N 0.48,Plg41°,Azm178°; P −5.78,Plg21°,Azm69°. Best double couple: $M_0$5.5×10^{18}Nm; NP1:ϕ_S113°,δ44°,λ19°. NP2: ϕ_S9°,δ77°,λ132°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s62,c166; Mantle waves: s58,c124; Half duration: 4s2. Moment tensor: Scale 10^{18}Nm; M_{rr}1.67±.03; $M_{\theta\theta}$1.02±.03; $M_{\phi\phi}$−2.69±.03; $M_{r\theta}$0.43±.02; $M_{r\phi}$3.66±.02; $M_{\theta\phi}$2.97±.03. Principal Axes: T 4.81,Plg43°,Azm313°; N 0.85,Plg37°,Azm177°; P −5.66,Plg24°,Azm68°. Best double couple: $M_0$5.2×10^{18}Nm, NP1:ϕ_S110°,δ40°,λ18°. NP2:ϕ_S6°,δ78°,λ128°.							
ISC	**X**	**09 20 35 16**±1.8	**9.9N**±.14	**126.2E**±.27	**59**±18	**3.7b**	**8**	**2-86**
EIDC	X	09 20 35 21.4	9.8N	126.1E	97	3.4b		¶97x1638
ISC	**X**	**13 16 08 20.5**±.42	**6.79N**±.052	**123.77E**±.082	**607**±6.8	**4.4b**	**56**	**1-144**
NEIC	X	13 16 08 20.0	6.81N	123.76E	600	4.6b		¶97x2247
BJI	X	13 16 08 20.3	6.86N	123.84E	594	4.2b		
EIDC	X	13 16 08 20.3	6.7N	123.8E	591	3.8b		
ISC	**X**	**17 07 56 14.2**±.52	**7.68N**±.078	**126.9E**±.15	**33**	**3.9b**	**21**	**1-119**
NEIC	X	17 07 56 19.0	7.72N	126.85E	80	4.3b		¶97x2942
EIDC	X	17 07 56 20.9	7.7N	126.8E	80	3.7b		
EIDC	**X**	**18 05 24 54.5**	**6.8N**	**125.7E**	**0**	**4.0b**		¶97x3104
ISC	**X**	**22 03 41 45.5**±.55	**5.95N**±.027	**126.02E**±.044	**132**±5.4	**5.0b**	**143**	**1-169**
BJI	X	22 03 41 45.0	5.96N	126.00E	129	5.1b		¶97x3747
EIDC	X	22 03 41 46.1	6.0N	126.1E	124	4.8b		
NEIC	X	22 03 41 46.3	5.92N	125.98E	138	5.1b		
EIDC	**X**	**26 00 07 35.1**	**8.5N**	**126.0E**	**0**	**3.4b**		¶97x4387
ISC	**X**	**27 10 10 13.8**±.94	**5.89N**±.083	**126.0E**±.19	**132**±11	**3.8b**	**16**	**1-90**
NEIC	X	27 10 10 13.9	5.86N	125.85E	135	3.9b		¶97x4598
EIDC	X	27 10 10 15.1	5.9N	126.0E	128	3.7b		
NEIC	Poor solution.							
ISC	**X**	**28 11 34 12**±1.0	**7.0N**±.10	**126.6E**±.22	**190**±9.1	**3.8b**	**15**	**1-89**
NEIC	X	28 11 34 13.0	6.91N	126.51E	200			¶97x4754
EIDC	X	28 11 34 13.1	7.0N	126.7E	185	3.5b		
NEIC	Single network solution.							
ISC	**X**	**28 20 51 07.5**±.69	**6.34N**±.046	**126.7E**±.11	**137**±6.7	**4.6b**	**51**	**1-120**
BJI	X	28 20 51 07.3	5.84N	126.55E	171	4.7b		¶97x4813
NEIC	X	28 20 51 07.9	6.33N	126.69E	141	5.1b		
EIDC	X	28 20 51 09.2	6.3N	126.7E	139	4.0b,3.4s		
ISC	**X**	**29 12 13 57**±1.4	**9.76N**±.060	**126.2E**±.15	**79**±12	**4.2b**	**37**	**2-146**
BJI	X	29 12 13 58.9	9.70N	126.20E	100	4.5b		¶97x4906
NEIC	X	29 12 13 58.9	9.73N	126.27E	100	4.4b		
EIDC	X	29 12 14 00.1	9.7N	126.1E	91	3.9b,3.6s		
NEIC	Less reliable solution.							
EIDC	**X**	**30 12 28 53.0**	**9.4N**	**126.0E**	**0**	**3.5b**		¶97x5037
EIDC	LO CONF Location							
ISC	**XI**	**03 05 49 45**±2.1	**5.9N**±.14	**126.6E**±.24	**72**±25	**3.9b**	**14**	**2-120**
EIDC	XI	03 05 49 37.0	6.1N	126.8E	0	4.1b		¶97xi0417
NEIC	XI	03 05 49 40.3	5.99N	126.60E	33	4.4b		
NEIC	Poor solution.							
ISC	**XI**	**06 21 53 03.4**±.79	**5.9N**±.11	**124.1E**±.35	**510**±10	**4.1b**	**22**	**1-164**
NEIC	XI	06 21 53 03.0	5.85N	124.09E	500	4.5b		¶97xi1037
EIDC	XI	06 21 53 04.7	5.8N	123.9E	512	3.5b		
NEIC	Less reliable solution.							
ISC	**XI**	**07 15 00 47**±1.7	**8.46N**±.076	**126.7E**±.15	**73**±15	**4.2b**	**20**	**1-89**
NEIC	XI	07 15 00 49.6	8.37N	126.62E	100	4.6b		¶97xi1136
EIDC	XI	07 15 00 50.9	8.3N	126.6E	96	3.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**08 13 05 55**±2.7	**6.6N**±.12	**124.4E**±.31	**116**±26	**3.8b**	**12**	**1-67**
NEIC	XI	08 13 05 54.0	6.53N	124.36E	100			¶97xi1284
EIDC	XI	08 13 05 56.8	6.6N	124.5E	107	3.7b		
NEIC	Less reliable solution.							
ISC	**XI**	**08 17 44 40.2**±.73	**5.93N**±.060	**125.8E**±.14	**139**±8.6	**4.1b**	**25**	**1-89**
NEIC	XI	08 17 44 41.2	5.94N	125.73E	150	4.5b		¶97xi1328
EIDC	XI	08 17 44 41.4	5.9N	125.8E	135	3.7b		
NEIC	Less reliable solution.							
ISC	**XI**	**09 05 26 52.8**±.69	**6.15N**±.058	**126.2E**±.12	**156**±7.8	**4.4b**	**31**	**1-98**
NEIC	XI	09 05 26 52.9	6.18N	126.22E	160	4.8b		¶97xi1404
EIDC	XI	09 05 26 54.7	6.1N	126.2E	158	4.1b		
NEIC	Less reliable solution.							
EIDC	**XI**	**09 14 44 12.5**	**7.9N**	**124.3E**	**0**	**3.7b**		¶97xi1459
ISC	**XI**	**11 12 12 59**±2.4	**8.6N**±.12	**126.6E**±.23	**76**±22	**3.7b**	**9**	**2-88**
EIDC	XI	11 12 13 13.6	8.5N	126.5E	203	3.4b		¶97xi1784
ISC	**XI**	**11 12 44 38**±1.0	**8.4N**±.13	**126.8E**±.14	**33**	**3.7b**	**10**	**1-88**
EIDC	XI	11 12 45 02.1	8.5N	126.4E	234	3.1b		¶97xi1790
ISC	**XI**	**20 21 41 06.4**±.91	**8.31N**±.087	**123.0E**±.14	**33**	**3.8b**,3.2s	**12**	**2-85**
EIDC	XI	20 21 41 24.5	8.3N	123.4E	191	3.4b,3.2s		¶97xi3536
ISC	**XI**	**21 09 09 55**±1.2	**5.7N**±.11	**126.2E**±.25	**112**±12	**3.6b**	**13**	**2-88**
NEIC	XI	21 09 09 53.3	5.64N	126.05E	100	3.8b		¶97xi3628
EIDC	XI	21 09 09 56.3	5.6N	126.1E	112	3.4b		
NEIC	Poor solution.							
ISC	**XI**	**21 20 30 31**±1.0	**6.00N**±.060	**126.7E**±.13	**130**±9.4	**4.3b**	**43**	**2-142**
BJI	XI	21 20 30 31.7	5.94N	126.62E	137	4.8b		¶97xi3735
NEIC	XI	21 20 30 31.8	5.98N	126.63E	136	4.8b		
EIDC	XI	21 20 30 33.4	6.0N	126.6E	136	3.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**23 01 36 02**±1.7	**5.1N**±.31	**126.7E**±.72	**33**	**3.7b**	**5**	**2-39**
EIDC	XI	23 01 35 59.5	5.1N	126.6E	0	3.9b,4.6L		¶97xi3997
ISC	**XI**	**26 20 46 30.0**±.86	**6.33N**±.089	**123.6E**±.12	**33**	**3.5b**,3.5s	**9**	**1-54**
EIDC	XI	26 20 46 27.6	6.2N	123.5E	0	3.7b,3.3s		¶97xi4741
NEIC	XI	26 20 46 30.3	6.24N	123.54E	33			
NEIC	Single network solution.							

ISC XI 27 20 55 24±2.7 **5.3N**±.44 **123.8E**±.52 **33** **3.4b** **6 27-123**
EIDC XI 27 20 55 12.0 7.1N 125.9E 0 3.8b **¶97xi4938**
NEIC XI 27 20 55 15.1 7.02N 125.82E 33 3.3b
NEIC Poor solution.
EIDC XI 30 13 51 31.1 9.0N 126.8E 0 3.5b ¶97xi5419
ISC XII 02 11 47 48.2±.26 **6.72N**±.025 **123.57E**±.037 **611**±4.0 **5.2b** **224 1-168**
KLM XII 02 11 47 47 6.7N 123.5E 596 4.8L **¶97xii0234**
BJI XII 02 11 47 47.0 6.70N 123.60E 593 5.7b
NEIC XII 02 11 47 47.1 6.76N 123.56E 596 5.3b
MOS XII 02 11 47 48.5 6.7N 123.6E 619 5.6b
HRVD XII 02 11 47 48.8±.7 6.79N±.06 123.58E±.09 592±5.5
EIDC XII 02 11 47 49.1±.90 6.7N 123.7E 607±8.8 4.6b
KLM MB5.3
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c21; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.87±.13; $M_{\theta\theta}$0.41±.19; $M_{\phi\phi}$0.47±.24; $M_{r\theta}$−0.21±.17; $M_{r\phi}$−1.81±.18; $M_{\theta\phi}$0.67±.19. Principal Axes: T 2.01,Plg31°,Azm117°; N 0.14, Plg17°,Azm16°; P −2.15,Plg54°,Azm262°. Best double couple: $M_0$2.1×10^{17}Nm, NP1: ϕ_S248°,δ21°,λ−36°. NP2:ϕ_S12°,δ78°,λ−107°.
EIDC Error ellipse is semi−major=13.0km semi−minor=6.5km azimuth=78
ISC XII 02 11 58 06.3±.77 **6.8N**±.24 **123.7E**±.27 **561**±27 **4.4b** **13 2-42**
EIDC XII 02 11 56 59.2±1.25 10.7N 128.2E 0 4.3b **¶97xii0237**
EIDC Error ellipse is semi−major=44.0km semi−minor=23.2km azimuth=64
ISC XII 02 12 13 15.8±.38 **6.71N**±.045 **123.61E**±.086 **603**±6.4 **4.7b** **70 2-165**
NEIC XII 02 12 13 15.2 6.72N 123.59E 594 4.9b **¶97xii0241**
BJI XII 02 12 13 15.7 6.75N 123.55E 601 4.8b
EIDC XII 02 12 13 17.5±1.03 6.7N 123.7E 606±12.5 3.8b
EIDC Error ellipse is semi−major=21.0km semi−minor=8.3km azimuth=80
ISC XII 02 12 48 06.9±.78 **6.8N**±.14 **123.6E**±.25 **601**±15 **4.2b** **18 2-71**
NEIC XII 02 12 48 08.5 6.74N 123.61E 630 4.6b **¶97xii0249**
EIDC XII 02 12 48 10.0±1.30 6.6N 123.6E 619±16.4 3.3b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=45.8km semi−minor=10.8km azimuth=64
ISC XII 06 11 56 09.1±.86 **5.4N**±.14 **126.6E**±.39 **33** **3.6b** **7 3-40**
EIDC XII 06 11 55 37.6 8.7N 124.6E 25±8.3 3.8b **¶97xii1391**
EIDC Origin time error = 31.26Error ellipse is semi−major=535.9km semi−minor=149.5km azimuth=155
ISC XII 07 03 37 51.3±.40 **8.44N**±.055 **126.84E**±.080 **33** **4.4b** **32 1-144**
NEIC XII 07 03 37 58.2 8.37N 126.52E 100 4.6b **¶97xii1598**
EIDC XII 07 03 37 59.3±.60 8.4N 126.5E 91±5.1 4.0b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=16.7km semi−minor=8.3km azimuth=111
ISC XII 14 18 45 33.8±.63 **6.26N**±.029 **126.66E**±.057 **155**±5.8 **4.9b** **115 1-162**
NEIC XII 14 18 45 28.2 6.32N 126.71E 100 5.2b **¶97xii3179**
BJI XII 14 18 45 28.6 5.94N 126.77E 130 5.1b
EIDC XII 14 18 45 34.0±2.27 6.2N 126.7E 142±20.3 4.4b,3.5s
EIDC Error ellipse is semi−major=24.7km semi−minor=10.8km azimuth=83
ISC XII 15 19 47 00.9±.82 **8.4N**±.10 **126.9E**±.12 **33** **3.9b** **11 1-95**
EIDC XII 15 19 46 57.6±1.01 8.6N 126.9E 0 4.0b **¶97xii3334**
EIDC Error ellipse is semi−major=46.0km semi−minor=21.2km azimuth=78
ISC XII 15 22 15 00±1.2 **8.44N**±.053 **126.66E**±.093 **78**±10 **4.1b** **40 2-95**
BJI XII 15 22 14 53.2 8.06N 126.10E 37 4.6b **¶97xii3350**
NEIC XII 15 22 14 55.4 8.43N 126.66E 33 4.4b
EIDC XII 15 22 15 00.2±3.12 8.4N 126.6E 61±28.5 4.0b,2.9s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=35.8km semi−minor=12.5km azimuth=79
ISC XII 22 06 41 23.2±.78 **9.82N**±.087 **126.5E**±.14 **33** **3.9b** **9 2-94**
EIDC XII 22 06 41 19.2±1.06 9.9N 126.0E 0 3.9b **¶97xii4371**
NEIC XII 22 06 41 22.0 9.68N 126.08E 33 3.8b
EIDC Error ellipse is semi−major=82.2km semi−minor=23.0km azimuth=80
NEIC Poor solution.
ISC XII 23 04 32 39±1.7 **5.6N**±.11 **126.2E**±.32 **56**±19 **3.8b** **10 3-90**
NEIC XII 23 04 32 54.3 5.27N 126.10E 200 3.8b **¶97xii4542**
EIDC XII 23 04 32 56.4±1.90 5.3N 126.0E 207±16.4 3.5b
NEIC Poor solution.
EIDC Error ellipse is semi−major=84.2km semi−minor=22.3km azimuth=79
ISC XII 24 18 14 03±2.0 **8.2N**±.26 **126.6E**±.16 **100** **3.3b** **9 0-81**
EIDC XII 24 18 13 47.6±1.35 7.8N 123.2E 0 3.5b,4.2L **¶97xii4798**
EIDC Error ellipse is semi−major=49.1km semi−minor=22.6km azimuth=74
ISC XII 26 23 35 02.8±.98 **6.40N**±.073 **126.3E**±.13 **77**±10 **3.9b** **23 1-89**
NEIC XII 26 23 34 58.3 6.42N 126.29E 33 4.2b **¶97xii5208**
EIDC XII 26 23 35 03.3±2.90 6.4N 126.3E 66±26.5 3.8b,3.9L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=55.9km semi−minor=13.4km azimuth=73
EIDC XII 28 05 05 22.3 6.5N 122.6E 0 3.9b 29-42 ¶97xii5400
EIDC Origin time error = 39.41Error ellipse is semi−major=675.2km semi−minor=395.7km azimuth=143
ISC XII 31 06 16 43.9±.95 **6.48N**±.079 **126.1E**±.15 **90**±12 **3.9b** **19 1-88**
NEIC XII 31 06 16 43.6 6.49N 126.09E 88 4.1b **¶97xii5842**
EIDC XII 31 06 16 45.0±1.08 6.5N 126.1E 86±11.0 3.8b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=48.6km semi−minor=13.3km azimuth=72

(260) East of Philippine Islands.

ISC VII 08 15 38 45±1.6 **5.00N**±.085 **128.9E**±.18 **243**±17 **3.9b** **22 4-99**
NEIC VII 08 15 38 41.1 5.02N 128.87E 200 4.0b **¶97vii1207**
EIDC VII 08 15 38 45.2 5.0N 129.0E 225 3.6b
NEIC Less reliable solution.
ISC VII 12 14 52 59±1.9 **9.9N**±.24 **128.3E**±.51 **33** 3.4b **4 9-79**
EIDC VII 12 14 52 56.7 9.9N 128.8E 0 3.7b **¶97vii1828**
ISC Poorly determined
ISC VIII 09 16 28 02.4±.81 **5.6N**±.14 **128.2E**±.24 **33** **3.6b** **8 3-83**
EIDC VIII 09 16 27 58.7 5.7N 127.9E 0 3.8b **¶97viii1280**
EIDC VIII 21 09 50 54.6 5.3N 128.1E 0 4.3b,4.8L **3-39 ¶97viii3081**
EIDC VIII 27 10 34 02.0 12.8N 128.6E 654 3.2b 25-108 ¶97viii3974
EIDC X 13 12 33 16.9 5.2N 128.4E 0 3.5b ¶97x2217
EIDC XII 01 17 46 29.5±3.79 **8.3N** **128.4E** **0** **3.7b**,3.0s **2-42 ¶97xii0118**
EIDC Error ellipse is semi−major=153.7km semi−minor=22.2km azimuth=106

SEISMIC REGION 23. BORNEO-SULAWESI.

(261) Kalimantan (Borneo).

DJA VII 01 11 23 52.0 3.8S 117.0E 320 4.8L,4.4D 3-5
ISC VIII 14 12 05 27±1.2 **5.0N**±.24 **118.8E**±.37 **33** **3.7b** **6 6-87**
EIDC VIII 14 12 05 23.1 5.2N 119.0E 0 3.8b,3.2s **¶97viii2054**
ISC VIII 29 18 14 33±1.4 **0.4N**±.18 **108.7E**±.22 **33** **4.1b** **7 19-57**
EIDC VIII 29 18 14 09.4 3.9S 101.9E 0 3.8b **¶97viii4359**
EIDC IX 04 13 27 15.0 3.3S 117.4E 0 3.7b ¶97ix0597
EIDC LO CONF Location
EIDC IX 14 10 21 09.4 2.4S 117.9E 0 3.7b ¶97ix2105
ISC XII 24 19 38 43.7±.33 **1.76N**±.096 **118.0E**±.13 **33** **4.3b**,4.2s **37 2-121**
EIDC XII 24 19 38 40.7±.57 1.7N 118.0E 0 4.3b **¶97xii4812**
NEIC XII 24 19 38 43.7 1.79N 118.05E 33 4.6b
BJI XII 24 19 38 47.0 2.52N 117.32E 5 4.6b
EIDC Error ellipse is semi−major=35.8km semi−minor=11.6km azimuth=60
NEIC Less reliable solution.
ISC XII 25 04 23 57.8±.42 **1.7N**±.13 **117.9E**±.17 **33** **4.1b** **26 2-79**
EIDC XII 25 04 23 57.5±.98 1.9N 118.7E 0 4.0b **¶97xii4865**
NEIC XII 25 04 23 59.8 1.94N 118.70E 33 4.4b
EIDC Error ellipse is semi−major=64.5km semi−minor=15.7km azimuth=67
NEIC Poor solution.
EIDC XII 25 05 30 00.5±7.04 **2.3S 116.5E 0 3.9b 25-42 ¶97xii4871**
EIDC Error ellipse is semi−major=342.1km semi−minor=26.9km azimuth=69LO CONF Location

(262) Celebes Sea.

ISC VII 01 09 58 48±1.1 **2.7N**±.22 **123.0E**±.28 **33** **3.8b** **7 25-88**
EIDC VII 01 09 58 58.9 3.2N 128.8E 0 3.7b **¶97vii0062**
EIDC VIII 02 13 29 58.5 2.3N 124.6E 0 4.0b 24-38 ¶97viii0217
EIDC VIII 02 23 36 40.7 2.0N 123.9E 0 4.0b 24-38 ¶97viii0270
ISC VIII 07 02 50 46±4.1 **3.3N**±.23 **122.5E**±.25 **567**±59 **4.3b** **17 19-91**
EIDC VIII 07 02 50 37.0 3.7N 123.0E 428 3.8b **¶97viii0877**
NEIC VIII 07 02 50 44.8 3.33N 122.51E 550 4.2b
NEIC Less reliable solution.
ISC VIII 08 19 09 17.9±.77 **4.29N**±.050 **124.54E**±.089 **391**±9.7 **4.3b** **57 4-129**
EIDC VIII 08 19 09 18.1 4.2N 124.5E 381 3.9b **¶97viii1154**
NEIC VIII 08 19 09 18.4 4.27N 124.41E 400 4.3b
BJI VIII 08 19 09 18.6 4.26N 124.42E 399 4.5b
EIDC VIII 12 01 39 21.9 2.1N 121.8E 0 4.5b 25-39 ¶97viii1660
ISC VIII 20 04 13 27±1.6 **4.3N**±.14 **124.1E**±.25 **425**±23 **4.1b** **15 4-90**
NEIC VIII 20 04 13 12.4 4.33N 124.17E 250 4.4b **¶97viii2905**
EIDC VIII 20 04 13 33.2 4.2N 124.0E 497 3.6b
NEIC Less reliable solution.
EIDC IX 26 20 36 55.7 3.2N 123.3E 0 3.9b ¶97ix4136
ISC X 10 17 48 42.1±.78 **4.37N**±.030 **124.90E**±.049 **47**±7.5 **4.9b**,**4.4s** **121 3-167**
MOS X 10 17 48 40.1 4.5N 125.0E 33 5.5b **¶97x1785**
NEIC X 10 17 48 40.7 4.37N 124.95E 33 5.0b
KLM X 10 17 48 41 4.3N 124.9E 33 4.4L
BJI X 10 17 48 41.0 4.54N 125.65E 45 5.0b,5.0s
EIDC X 10 17 48 44.6 4.3N 124.8E 54 4.6b,3.9s
KLM Mb5.0
ISC X 20 18 27 36±1.1 **4.3N**±.24 **123.2E**±.39 **81**±2.9* **3.5b** **5 26-56**
EIDC X 20 18 27 37.9 4.3N 123.3E 83 3.4b **¶97x3542**
ISC XI 03 08 14 43.6±.71 **4.9N**±.13 **123.2E**±.30 **350** **3.9b** **14 27-96**
EIDC XI 03 08 14 51.0 4.8N 123.3E 416 3.6b **¶97xi0434**
NEIC XI 03 08 14 55.9 4.72N 123.38E 500 4.5b
NEIC Less reliable solution.
ISC XI 14 16 04 34.7±.39 **3.50N**±.027 **123.82E**±.045 **425**±5.5 **4.6b** **107 4-128**
NEIC XI 14 16 04 34.6 3.51N 123.80E 425 4.9b **¶97xi2315**
BJI XI 14 16 04 34.7 3.54N 123.91E 425 4.5b
EIDC XI 14 16 04 35.5 3.5N 123.8E 421 4.0b
ISC XI 15 05 29 45±7.2 **4.7N**±.24 **122.8E**±.36 **21**±51 **3.9b** **8 4-89**
EIDC XI 15 05 29 43.5 4.9N 122.9E 0 4.0b,2.9s **¶97xi2424**
ISC XI 19 08 06 23±2.0 **4.7N**±.17 **122.4E**±.57 **33** **4.2b** **11 7-86**
EIDC XI 19 08 06 23.5 4.9N 123.9E 0 4.0b **¶97xi3166**
EIDC XI 25 13 23 34.1 3.3N 123.7E 37 3.2b ¶97xi4522
ISC XI 29 21 13 05.0±.49 **2.73N**±.038 **123.02E**±.073 **480**±7.9 **4.4b** **50 5-88**
NEIC XI 29 21 13 05.2 2.71N 122.97E 482 4.6b **¶97xi5323**
BJI XI 29 21 13 05.6 2.81N 122.96E 484 4.7b
EIDC XI 29 21 13 07.2 2.7N 123.1E 490 3.8b
ISC XI 30 20 55 27±1.8 **3.4N**±.13 **122.8E**±.26 **363**±24 **3.9b** **13 5-73**
NEIC XI 30 20 55 27.0 3.45N 122.82E 366 4.3b **¶97xi5460**
EIDC XI 30 20 55 28.4 3.4N 122.9E 363 3.5b
NEIC Less reliable solution.
ISC XII 06 08 09 38±1.0 **3.9N**±.22 **124.4E**±.39 **33** **4.0b** **6 26-39**
EIDC XII 06 08 09 35.5±1.26 3.9N 124.4E 0 4.2b **¶97xii1302**
EIDC Error ellipse is semi−major=72.2km semi−minor=19.1km azimuth=61
ISC XII 09 19 27 52±6.5 **1.1N**±.13 **119.5E**±.20 **34**±63 **4.2b**,4.4s **16 19-82**
NEIC XII 09 19 27 52.1 1.11N 119.48E 33 4.3b **¶97xii2227**
BJI XII 09 19 27 52.2 1.95N 119.93E 5 4.7b
EIDC XII 09 19 27 53.5±.99 1.1N 119.4E 26±7.6 4.1b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=48.7km semi−minor=12.6km azimuth=62
ISC XII 21 08 09 20.5±.46 **3.21N**±.033 **122.63E**±.057 **535**±6.9 **4.6b** **97 3-125**
NEIC XII 21 08 09 21.3 3.22N 122.60E 550 4.9b **¶97xii4233**
BJI XII 21 08 09 21.5 3.19N 122.81E 560 4.8b
EIDC XII 21 08 09 21.6±1.37 3.2N 122.8E 537±14.9 4.1b
EIDC Error ellipse is semi−major=22.4km semi−minor=7.9km azimuth=77
ISC XII 23 04 01 57.9±.88 **3.88N**±.052 **122.98E**±.088 **564**±14 **4.1b** **49 5-91**
NEIC XII 23 04 01 56.9 3.88N 122.93E 550 4.5b **¶97xii4539**
EIDC XII 23 04 02 00.1±2.43 3.9N 123.0E 575±34.4 3.4b
EIDC Error ellipse is semi−major=31.5km semi−minor=10.5km azimuth=77

(263) Talaud Islands.

ISC VII 01 12 58 59±1.3 **4.9N**±.17 **125.3E**±.29 **301**±16 **3.4b** **8 2-90**
EIDC VII 01 12 59 00.7 5.0N 125.5E 300 3.1b **¶97vii0092**
ISC VII 04 09 27 04.8±.59 **4.29N**±.093 **126.9E**±.22 **33** **3.9b** **13 25-91**
EIDC VII 04 09 27 01.8 4.2N 126.9E 0 3.9b **¶97vii0531**
NEIC VII 04 09 27 04.9 4.30N 126.92E 33 3.9b
NEIC Less reliable solution.
ISC VII 04 14 27 08±1.3 **3.5N**±.21 **127.2E**±.81 **33** **3.9b** **7 24-57**
EIDC VII 04 14 27 06.1 3.2N 126.6E 0 4.1b **¶97vii0573**
ISC VII 06 17 54 22±1.4 **4.82N**±.049 **127.7E**±.11 **177**±15 **4.2b** **32 3-120**
BJI VII 06 17 54 22.3 4.69N 127.59E 178 4.5b **¶97vii0915**
EIDC VII 06 17 54 23.3 4.8N 127.6E 170 3.9b,3.6s
NEIC VII 06 17 54 24.5 4.84N 127.64E 200 4.3b

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng	
	mo	d h m s		°	°	km			°	
ISC	**VII**	**10 04 09 55**±1.2		**2.75N**±.086	**125.3E**±.20	**165**±13	**4.1b**	**18**	**1-161**	
NEIC	VII	10 04 09 48.6		2.79N	125.09E	100	4.3b			¶97vii1446
BJI	VII	10 04 09 48.9		2.66N	125.05E	99	4.5b			
EIDC	VII	10 04 09 53.3		2.7N	125.1E	131	3.9b			
NEIC	Less reliable solution.									
EIDC	**VII**	**14 00 13 04.6**		**3.6N**	**125.9E**	**0**	**4.1b**		**25-57**	
										¶97vii2047
ISC	**VII**	**15 03 36 34**±8.0		**3.45N**±.068	**126.4E**±.16	**30**±58	**4.4b**	**30**	**21-122**	
BJI	VII	15 03 36 32.9		3.34N	125.96E	29	4.7b			¶97vii2250
NEIC	VII	15 03 36 34.4		3.47N	126.47E	33	4.6b			
EIDC	VII	15 03 36 37.4		3.4N	126.8E	43	4.1b			
ISC	**VII**	**18 08 54 54.8**±.59		**3.81N**±.071	**127.0E**±.17	**33**	**4.1b**,3.5s	**14**	**3-85**	
EIDC	VII	18 08 54 51.1		3.6N	126.5E	0	4.1b,3.5s			¶97vii2717
NEIC	VII	18 08 54 54.2		3.64N	126.43E	33	4.0b			
BJI	VII	18 08 54 55.9		3.80N	127.04E	38	4.5b			
NEIC	Less reliable solution.									
EIDC	**VII**	**18 10 27 20.4**		**4.1N**	**125.6E**	**0**	**3.6b**		**25-56**	
										¶97vii2724
ISC	**VII**	**28 15 09 17.3**±.88		**4.4N**±.11	**126.2E**±.36	**33**	**3.8b**	**8**	**26-56**	
EIDC	VII	28 15 09 13.2		4.2N	125.2E	0	3.7b			¶97vii4293
NEIC	VII	28 15 09 17.4		4.44N	126.16E	33	4.2b			
NEIC	Poor solution.									
ISC	**VIII**	**02 02 27 15**±1.1		**3.6N**±.20	**126.6E**±.31	**33**	**3.7b**	**6**	**25-85**	
EIDC	VIII	02 02 27 11.8		3.7N	126.8E	0	3.8b			¶97viii0155
ISC	**VIII**	**03 20 44 08**±2.2		**3.0N**±.30	**127.8E**±.58	**113**±36	**3.7b**	**9**	**5-37**	
EIDC	VIII	03 20 43 56.9		3.1N	128.0E	0	3.8b			¶97viii0411
NEIC	VIII	03 20 44 05.5		3.06N	127.51E	100	4.1b			
NEIC	Poor solution.									
EIDC	**VIII**	**05 09 39 36.2**		**2.4N**	**125.8E**	**0**	**3.8b**		**20-37**	
										¶97viii0651
ISC	**VIII**	**09 18 05 41**±1.3		**3.93N**±.072	**126.7E**±.19	**115**±14	**4.1b**	**26**	**4-92**	
BJI	VIII	09 18 05 32.1		3.87N	126.25E	29	4.5b			¶97viii1298
NEIC	VIII	09 18 05 32.8		4.02N	126.68E	33	4.5b			
EIDC	VIII	09 18 05 46.4		4.0N	126.8E	151	3.7b			
NEIC	Less reliable solution.									
EIDC	**VIII**	**11 11 28 04.3**		**5.0N**	**126.6E**	**0**	**3.8b**		**18-39**	
										¶97viii1552
ISC	**VIII**	**19 17 12 10**±1.4		**3.93N**±.070	**125.5E**±.19	**201**±16	**3.8b**	**19**	**3-91**	
NEIC	VIII	19 17 12 09.5		3.94N	125.50E	200	4.2b			¶97viii2843
EIDC	VIII	19 17 12 10.4		3.9N	125.6E	191	3.4b			
ISC	**VIII**	**19 22 36 04.3**±.93		**4.00N**±.059	**125.8E**±.13	**183**±9.7	**4.2b**	**38**	**4-98**	
NEIC	VIII	19 22 35 56.0		4.04N	125.75E	100	4.5b			¶97viii2876
BJI	VIII	19 22 35 56.2		3.98N	125.78E	101	4.6b			
EIDC	VIII	19 22 36 05.8		3.9N	125.7E	179	4.0b			
NEIC	Less reliable solution.									
ISC	**VIII**	**20 02 40 39.0**±.97		**4.9N**±.12	**125.7E**±.25	**150**	**3.6b**	**6**	**3-84**	
EIDC	VIII	20 02 40 37.8		5.0N	125.9E	118	3.6b			¶97viii2896
ISC	**VIII**	**29 03 15 33**±1.3		**2.9N**±.14	**125.7E**±.25	**333**±19	**3.7b**	**12**	**4-86**	
EIDC	VIII	29 03 15 34.2		2.9N	125.7E	326	3.6b			¶97viii4229
ISC	**VIII**	**30 08 30 04**±1.2		**4.13N**±.056	**126.5E**±.12	**98**±11	**4.4b**	**42**	**3-126**	
BJI	VIII	30 08 30 02.7		4.02N	126.58E	101	4.7b			¶97viii4458
NEIC	VIII	30 08 30 03.4		4.10N	126.41E	90	4.5b			
EIDC	VIII	30 08 30 05.7		4.2N	126.5E	90	4.2b,3.5s			
NEIC	Less reliable solution.									
ISC	**VIII**	**30 10 54 53**±1.4		**4.1N**±.25	**126.6E**±.43	**33**	**3.7b**	**4**	**29-56**	
EIDC	VIII	30 10 54 50.3		4.1N	126.6E	0	3.8b			¶97viii4472
ISC	Poorly determined									
ISC	**IX**	**13 07 37 45**±1.8		**4.60N**±.090	**127.6E**±.21	**86**±19	**4.2b**	**22**	**4-91**	
EIDC	IX	13 07 37 36.4		4.6N	127.5E	0	4.3b			¶97ix1949
NEIC	IX	13 07 37 39.1		4.67N	127.59E	33	4.3b			
NEIC	Less reliable solution.									
EIDC	**IX**	**14 12 25 27.3**		**4.8N**	**126.0E**	**0**	**3.5b**			¶97ix2122
EIDC	**IX**	**16 08 58 44.9**		**4.1N**	**126.8E**	**0**	**3.7b**			¶97ix2357
ISC	**IX**	**23 16 48 45**±1.0		**4.75N**±.047	**126.4E**±.14	**87**±11	**4.3b**	**41**	**3-98**	
NEIC	IX	23 16 48 45.8		4.77N	126.43E	100	4.5b			¶97ix3454
EIDC	IX	23 16 48 57.9		4.7N	126.8E	194	3.8b			
ISC	**X**	**03 22 29 35**±1.0		**3.1N**±.17	**125.5E**±.32	**33**	**3.8b**	**6**	**24-57**	
EIDC	X	03 22 29 37.2		3.4N	128.9E	0	3.9b			¶97x0535
ISC	**X**	**09 03 34 17.5**±.91		**3.8N**±.10	**126.2E**±.20	**33**	**3.9b**	**8**	**4-38**	
EIDC	X	09 03 34 29.0		2.1N	126.2E	0	3.9b			¶97x1515
EIDC	LO CONF Location									
EIDC	**X**	**10 19 48 50.5**		**2.0N**	**125.0E**	**0**	**4.0b**			¶97x1793
ISC	**X**	**14 01 55 46.6**±.83		**3.42N**±.043	**126.78E**±.056	**81**±8.8	**4.4b**	**61**	**3-140**	
EIDC	X	14 01 55 37.2		3.1N	126.7E	0	4.5b,3.6s			¶97x2322
BJI	X	14 01 55 48.0		3.54N	126.47E	78	4.7b			
NEIC	X	14 01 55 48.7		3.18N	126.84E	110	4.7b			
ISC	**X**	**20 16 57 53**±1.2		**3.7N**±.15	**126.8E**±.32	**33**	**3.5b**	**5**	**22-34**	
EIDC	X	20 16 57 49.9		3.7N	126.8E	0	3.6b			¶97x3530
ISC	**X**	**24 12 19 39**±1.0		**3.50N**±.067	**126.7E**±.13	**76**±12	**4.3b**	**18**	**3-91**	
NEIC	X	24 12 19 38.5		3.53N	126.71E	75	4.3b			¶97x4165
EIDC	X	24 12 19 40.4		3.5N	126.6E	79	4.2b			
ISC	**XI**	**03 07 37 00.0**±.53		**4.41N**±.027	**125.85E**±.041	**172**±5.6	**4.9b**	**129**	**3-167**	
NEIC	XI	03 07 36 58.9		4.43N	125.82E	161	5.2b			¶97xi0429
BJI	XI	03 07 36 59.0		4.37N	125.73E	169	4.8b			
EIDC	XI	03 07 37 00.4		4.4N	125.8E	160	4.7b,3.8s			
HRVD	XI	03 07 37 03.6±1.0		3.90N±.13	125.91E±.14	179±5.6				
NEIC	Mw5.4(HRV).									
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s10,c10; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.86±.14; $M_{\theta\theta}$−0.21±.26; $M_{\phi\phi}$1.07±.22; $M_{r\theta}$0.80±.21; $M_{r\phi}$0.61±.20; $M_{\theta\phi}$0.60±.27. Principal Axes: T 1.63,Plg20°,Azm297°; N −0.21, Plg24°,Azm36°; P −1.42,Plg58°,Azm171°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: φs353°,δ32°,λ−139°. NP2:φs226°,δ69°,λ−65°.									
ISC	**XI**	**13 02 08 14.0**±.73		**4.08N**±.043	**125.73E**±.080	**178**±7.6	**4.8b**	**67**	**3-122**	
BJI	XI	13 02 08 14.2		4.15N	125.79E	179	4.8b			¶97xi2065
NEIC	XI	13 02 08 14.2		4.07N	125.68E	180	4.9b			
EIDC	XI	13 02 08 15.2		4.0N	125.7E	175	4.5b			
ISC	**XI**	**17 11 55 01**±1.3		**3.3N**±.18	**126.3E**±.83	**24**	**4.1b**	**10**	**17-57**	
NEIC	XI	17 11 55 01.4		3.34N	126.25E	24	4.3b			¶97xi2792
EIDC	XI	17 11 55 03.6		3.5N	127.2E	21	4.0b			
NEIC	Poor solution.									
ISC	**XI**	**19 01 56 47**±1.1		**3.9N**±.15	**126.8E**±.62	**33**	**3.8b**	**7**	**4-38**	
EIDC	XI	19 01 56 56.6		2.7N	127.8E	0	3.9b			¶97xi3105
ISC	**XI**	**21 17 54 24**±1.1		**4.14N**±.048	**126.8E**±.13	**78**±11	**4.2b**	**40**	**3-90**	
EIDC	XI	21 17 54 16.1		4.2N	126.8E	0	4.2b,3.9s			¶97xi3700
NEIC	XI	21 17 54 19.1		4.27N	126.96E	33	4.6b,4.2s			
BJI	XI	21 17 54 19.2		4.30N	126.89E	32	4.5b,4.7s			
NEIC	Less reliable solution.									
ISC	**XI**	**23 03 42 16**±2.2		**4.0N**±.10	**126.5E**±.27	**87**±24	**3.7b**	**12**	**4-70**	
EIDC	XI	23 03 42 07.2		4.0N	126.6E	0	3.9b			¶97xi4017
NEIC	XI	23 03 42 10.0		4.01N	126.58E	33	3.9b			
NEIC	Less reliable solution.									
ISC	**XI**	**23 08 22 38**±1.2		**4.2N**±.23	**126.6E**±.39	**33**	**3.5b**	**6**	**3-56**	
EIDC	XI	23 08 22 34.9		4.2N	126.6E	0	3.6b			¶97xi4073
ISC	**XI**	**28 20 07 52**±2.1		**3.9N**±.11	**127.9E**±.23	**161**±20	**3.9b**	**11**	**4-84**	
BJI	XI	28 20 07 51.6		3.81N	127.89E	163	4.2b			¶97xi5136
NEIC	XI	28 20 07 52.3		3.94N	127.87E	161	4.1b			
EIDC	XI	28 20 07 55.1		4.1N	128.0E	165	3.5b			
NEIC	Poor solution.									
ISC	**XI**	**29 12 03 52**±1.3		**3.9N**±.11	**125.8E**±.22	**169**±14	**3.9b**	**12**	**4-98**	
NEIC	XI	29 12 03 53.6		3.81N	125.71E	187	3.9b			¶97xi5259
EIDC	XI	29 12 03 55.3		3.8N	125.5E	187	3.5b			
NEIC	Less reliable solution.									
ISC	**XII**	**01 18 21 56**±1.3		**5.0N**±.13	**127.3E**±.20	**111**±15	**3.9b**	**14**	**3-84**	
BJI	XII	01 18 21 55.7		5.10N	127.34E	102	4.3b			¶97xii0125
NEIC	XII	01 18 21 55.8		4.98N	127.37E	100	3.9b			
EIDC	XII	01 18 21 56.9±4.92		5.0N	127.5E	97±51.1	3.6b,3.3s			
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=105.1km semi−minor=17.4km azimuth=74									
ISC	**XII**	**09 18 08 26**±2.1		**3.9N**±.40	**127.2E**±.65	**65**±33	**3.6b**	**9**	**4-84**	
EIDC	XII	09 18 08 27.5±4.79		4.4N	127.9E	93±49.9	3.6b			¶97xii2213
EIDC	Error ellipse is semi−major=207.5km semi−minor=25.9km azimuth=53									
ISC	**XII**	**11 18 14 41**±1.9		**3.33N**±.093	**125.4E**±.19	**169**±22	**3.9b**	**19**	**5-90**	
NEIC	XII	11 18 14 49.8		3.28N	125.52E	267	3.9b			¶97xii2616
EIDC	XII	11 18 14 52.0±1.24		3.2N	125.4E	269±13.9	3.3b			
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=45.9km semi−minor=13.4km azimuth=71									
ISC	**XII**	**13 00 14 44**±2.1		**4.6N**±.12	**127.8E**±.21	**136**±20	**3.7b**	**15**	**5-90**	
EIDC	XII	13 00 14 28.7±.84		4.8N	127.7E	0	3.9b			¶97xii2845
NEIC	XII	13 00 14 32.3		4.68N	127.75E	33	4.3b			
EIDC	Error ellipse is semi−major=67.8km semi−minor=16.5km azimuth=79									
NEIC	Poor solution.									
ISC	**XII**	**16 18 00 05**±3.3		**3.8N**±.11	**126.6E**±.26	**80**±33	**4.2b**	**18**	**3-83**	
EIDC	XII	16 17 59 56.5±1.05		3.5N	125.6E	0	4.3b			¶97xii3483
NEIC	XII	16 18 00 00.1		3.91N	126.98E	33	4.6b			
BJI	XII	16 18 00 01.3		4.39N	126.31E	8	4.4b			
EIDC	Error ellipse is semi−major=194.4km semi−minor=14.9km azimuth=76									
NEIC	Less reliable solution.									
EIDC	**XII**	**17 14 48 57.4**±7.11		**3.6N**	**126.7E**	**0**	**3.6b**		**5-38**	
										¶97xii3617
EIDC	Error ellipse is semi−major=322.2km semi−minor=27.1km azimuth=51									
ISC	**XII**	**19 07 10 08**±1.9		**3.27N**±.092	**125.3E**±.13	**39**±22	**4.5b**	**37**	**4-83**	
EIDC	XII	19 07 10 07.8±1.04		2.6N	124.8E	0	4.4b			¶97xii3912
NEIC	XII	19 07 10 10.5		2.85N	125.17E	33	4.7b			
EIDC	Error ellipse is semi−major=50.9km semi−minor=18.1km azimuth=71									
ISC	**XII**	**19 14 41 00**±2.2		**4.7N**±.12	**127.0E**±.50	**39**±23	**4.0b**	**12**	**4-90**	
EIDC	XII	19 14 40 56.4±.87		4.7N	127.2E	0	4.1b,3.1s			¶97xii3983
NEIC	XII	19 14 40 59.1		4.75N	127.05E	33	4.2b			
EIDC	Error ellipse is semi−major=84.6km semi−minor=16.1km azimuth=81									
NEIC	Poor solution.									
ISC	**XII**	**26 16 48 16**±2.1		**2.35N**±.089	**125.4E**±.26	**69**±24	**3.9b**	**15**	**5-87**	
NEIC	XII	26 16 48 13.8		2.23N	125.28E	33	4.2b			¶97xii5175
EIDC	XII	26 16 48 18.4±4.00		2.4N	126.1E	62±46.2	3.7b,4.8L			
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=106.6km semi−minor=17.4km azimuth=84									
ISC	**XII**	**27 01 17 41.2**±.98		**4.17N**±.059	**126.1E**±.11	**135**±10	**4.1b**	**37**	**3-122**	
NEIC	XII	27 01 17 41.3		4.18N	126.17E	135	4.4b			¶97xii5222
EIDC	XII	27 01 17 42.8±1.50		4.2N	126.2E	130±14.4	3.9b			
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi−major=34.6km semi−minor=10.6km azimuth=77Multiple, same az									
ISC	**XII**	**28 03 22 57.9**±.71		**2.65N**±.034	**125.72E**±.063	**103**±6.9	**4.9b**	**97**	**1-130**	
BJI	XII	28 03 22 54.4		2.33N	125.90E	100	4.9b			¶97xii5387
NEIC	XII	28 03 22 57.8		2.65N	125.72E	100	5.1b			
EIDC	XII	28 03 22 58.8±.54		2.7N	125.9E	94±5.3	4.6b			
EIDC	Error ellipse is semi−major=26.2km semi−minor=9.7km azimuth=77									
ISC	**XII**	**28 04 39 49.9**±.79		**2.62N**±.042	**125.73E**±.081	**104**±7.8	**4.6b**	**55**	**1-130**	
BJI	XII	28 04 39 49.5		2.60N	125.70E	100	4.6b			¶97xii5398
NEIC	XII	28 04 39 49.5		2.62N	125.72E	100	4.7b			
EIDC	XII	28 04 39 50.7±.76		2.6N	125.7E	97±6.7	4.3b			
EIDC	Error ellipse is semi−major=29.5km semi−minor=8.0km azimuth=81									
EIDC	**XII**	**28 10 24 16.3**±6.36		**4.6N**	**126.3E**	**0**	**3.7b**		**4-85**	
										¶97xii5439
EIDC	Error ellipse is semi−major=380.2km semi−minor=29.1km azimuth=88									
ISC	**XII**	**29 22 11 56.6**±.90		**4.02N**±.035	**127.89E**±.052	**83**±8.8	**4.7b**	**97**	**4-132**	
BJI	XII	29 22 11 56.9		3.97N	128.03E	99	5.1b			¶97xii5643
NEIC	XII	29 22 11 58.4		3.99N	127.95E	100	4.7b			
EIDC	XII	29 22 12 02.1±2.13		4.0N	128.0E	119±20.2	4.4b,3.7s			
EIDC	Error ellipse is semi−major=23.8km semi−minor=9.6km azimuth=84Multiple, same az									
ISC	**XII**	**30 20 05 43.2**±.66		**3.6N**±.10	**126.5E**±.25	**100**	**3.6b**	**10**	**22-90**	
NEIC	XII	30 20 05 43.2		3.62N	126.52E	100	3.6b			¶97xii5782
EIDC	XII	30 20 05 44.8		3.6N	126.6E	99±102.8	3.5b			
NEIC	Less reliable solution.									
EIDC	Origin time error = 10.29Error ellipse is semi−major=51.9km semi−minor=19.5km azimuth=68									

(264) North of Djailolo Gilolo (Halmahera).

EIDC	**VII**	**13 22 55 27.1**		**3.0N**	**129.1E**	**0**	**3.3b**		**23-85**	
										¶97vii2035
ISC	**VII**	**14 02 15 34.2**±.79		**3.6N**±.15	**129.0E**±.47	**36**±2.7*	**3.9b**	**9**	**20-84**	
NEIC	VII	14 02 15 33.8		3.59N	128.94E	33	3.9b			¶97vii2059
EIDC	VII	14 02 15 35.9		3.6N	129.1E	36	3.7b			
NEIC	Poor solution.									
ISC	**VII**	**15 15 40 31.7**±.60		**3.56N**±.082	**128.9E**±.26	**33**	**4.1b**,3.6s	**14**	**24-84**	
EIDC	VII	15 15 40 28.6		3.6N	129.0E	0	4.0b,3.6s			¶97vii2321
BJI	VII	15 15 40 30.6		3.66N	128.83E	31	4.6b			
NEIC	VII	15 15 40 31.0		3.58N	128.63E	33	4.2b			
NEIC	Poor solution.									
ISC	**VII**	**16 05 19 58.3**±.60		**3.50N**±.097	**128.8E**±.18	**34**±1.1*	**4.1b**	**15**	**24-120**	
EIDC	VII	16 05 19 55.1		3.5N	128.9E	0	3.8b			¶97vii2392
BJI	VII	16 05 19 58.2		3.50N	128.80E	33	4.4b			
NEIC	VII	16 05 19 58.2		3.51N	128.80E	33	4.7b			
NEIC	Less reliable solution.									
ISC	**VII**	**18 05 57 39**±4.5		**3.3N**±.54	**128.2E**±.58	**33**	**4.0b**	**8**	**24-83**	
EIDC	VII	18 05 57 38.0		3.0N	127.9E	0	4.2b			¶97vii2701
ISC	**VII**	**20 11 49 47**±1.5		**3.24N**±.033	**128.41E**±.064	**79**±14	**4.8b**	**93**	**5-159**	
BJI	VII	20 11 49 42.3		3.29N	128.67E	35	5.1b			¶97vii3082
NEIC	VII	20 11 49 42.5		3.30N	128.41E	33	5.1b			
EIDC	VII	20 11 49 46.7		3.3N	128.6E	56	4.5b,4.2s			

ISC VII 23 12 48 54±2.5 **3.07N**±.062 **128.2E**±.12 **95**±25 **4.4b** **46 9-156**
BJI VII 23 12 48 53.8 3.09N 128.19E 93 4.8b **¶97vii3528**
NEIC VII 23 12 48 54.1 3.08N 128.12E 94 4.7b
EIDC VII 23 12 48 55.7 3.0N 128.3E 96 4.0b
ISC VIII 22 02 45 21.7±.60 **3.37N**±.025 **128.02E**±.039 **145**±6.1 **4.9b** **169 4-167**
BJI VIII 22 02 45 20.7 3.35N 128.07E 138 4.9b **¶97viii3169**
NEIC VIII 22 02 45 21.7 3.38N 127.96E 145 5.2b
HRVD VIII 22 02 45 21.8±.9 3.38N 127.96E 135±3.5
EIDC VIII 22 02 45 21.9 3.4N 128.0E 134 4.5b,3.8s
NEIC Mw5.2(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.34±.75; $M_{\theta\theta}$4.78±.97; $M_{\phi\phi}$0.56±1.34; $M_{r\theta}$2.65±.81; $M_{r\phi}$1.65±1.26; $M_{\theta\phi}$2.47±1.15. Principal Axes: T 6.72,Plg14°,Azm335°; N −0.56,Plg4°,Azm244°; P −6.16,Plg75°,Azm140°. Best double couple: $M_0$6.4×10^{16}Nm, NP1: ϕ_S70°,δ31°,λ−83°. NP2:ϕ_S242°,δ60°,λ−94°.
EIDC IX 01 02 07 20.4 **3.1N** **128.3E** **0** **3.4b** **¶97ix0020**
EIDC IX 16 09 30 14.4 **3.3N** **128.8E** **0** **3.6b** **¶97ix2361**
ISC IX 28 23 48 06±1.1 **3.2N**±.28 **128.7E**±.81 **33** **3.9b** **8 6-58**
EIDC IX 28 23 48 02.4 3.0N 127.8E 0 4.2b **¶97ix4796**
EIDC X 11 08 38 47.8 **3.2N** **129.7E** **0** **4.1b** **¶97x1867**
EIDC XI 02 14 21 35.7 **3.3N** **129.6E** **0** **4.1b** **¶97xi0276**
ISC XI 22 18 34 29.7±.87 **3.5N**±.17 **128.2E**±.37 **150** **3.7b** **8 24-93**
EIDC XI 22 18 34 13.9 3.7N 128.5E 0 3.9b **¶97xi3939**
NEIC XI 22 18 34 17.1 3.68N 128.48E 33 4.1b
NEIC Less reliable solution.
EIDC XII 04 13 36 36.8 **3.4N** **129.4E** **0** **3.5b** **24-37**
¶97xii0621
EIDC Origin time error = 12.12Error ellipse is semi−major=310.2km semi−minor=184.0km azimuth=89LO CONF Location
ISC XII 07 16 56 36±1.1 **3.1N**±.10 **128.1E**±.20 **113**±13 **3.8b** **15 5-85**
NEIC XII 07 16 56 35.8 3.11N 128.14E 108 4.4b **¶97xii1744**
EIDC XII 07 16 56 36.8±4.11 3.1N 128.2E 102±39.6 3.5b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=49.5km semi−minor=14.2km azimuth=73

(265) Minahassa Peninsula (Celebes).

ISC VII 01 20 00 41.8±.85 **0.02S**±.038 **123.38E**±.049 **167**±9.2 **4.4b** **79 5-162**
NEIC VII 01 20 00 34.6 0.07N 123.36E 100 4.7b **¶97vii0136**
BJI VII 01 20 00 36.3 0.02N 123.45E 99 4.7b
DJA VII 01 20 00 37.7 0.8N 123.0E 100 5.1L,5.0D
EIDC VII 01 20 00 43.7 0.1N 123.6E 166 4.1b
DJA VII 04 08 21 11.4 **0.3S** **120.6E** **100** 4.6D,4.1L **3-3**
¶97vii0525
DJA VII 09 09 13 18.3 **1.0S** **120.4E** **100** 5.1L,4.5D **3-3**
ISC DJA magnitude values may be overestimated **¶97vii1307**
ISC VII 09 19 55 36±1.9 **0.2N**±.32 **123.8E**±.48 **33** **3.6b** **5 18-36**
EIDC VII 09 19 55 31.8 0.4N 124.2E 0 3.7b **¶97vii1388**
ISC VII 10 00 57 05±1.1 **1.8N**±.28 **124.0E**±.74 **33** **3.7b** **9 11-61**
EIDC VII 10 00 57 03.1 1.9N 124.8E 0 3.8b **¶97vii1421**
ISC VII 10 12 19 00±1.5 **1.3N**±.18 **120.6E**±.54 **33** **4.0b** **11 25-90**
NEIC VII 10 12 19 00.0 1.27N 120.65E 33 4.1b **¶97vii1509**
EIDC VII 10 12 19 02.2 2.0N 123.2E 0 3.9b
NEIC Poor solution.
ISC VII 17 00 56 57±4.5 **0.4N**±.55 **124.5E**±.39 **33** **4.1b** **8 22-80**
EIDC VII 17 00 56 54.6 0.2N 124.3E 0 4.1b **¶97vii2525**
EIDC VII 17 09 59 11.6 **0.3N** **122.0E** **0** **3.5b** **23-37**
¶97vii2580
ISC VII 23 03 23 47.5±.64 **0.10S**±.029 **123.04E**±.031 **160**±6.4 **5.2b** **258 2-162**
KLM VII 23 03 23 45 0.1S 123.0E 131 4.9L **¶97vii3474**
NEIC VII 23 03 23 45.5 0.03S 123.00E 139 5.4b
BJI VII 23 03 23 45.6 0.06S 123.19E 135 5.3b
DJA VII 23 03 23 45.7 0.0N 123.1E 141 5.8b,5.4D
EIDC VII 23 03 23 46.1 0.0N 123.3E 131 4.8b
MOS VII 23 03 23 47.3 0.0S 123.0E 155 5.5b
HRVD VII 23 03 23 50.3±.3 0.26N±.03 123.12E±.04 124±2.3
KLM Mb5.4
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c54; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.72±.30; $M_{\theta\theta}$−2.81±.42; $M_{\phi\phi}$−2.92±.58; $M_{r\theta}$−7.05±.32; $M_{r\phi}$5.32±.35; $M_{\theta\phi}$3.01±.40. Principal Axes: T 10.5,Plg61°,Azm213°; N 0.1, Plg4°,Azm310°; P −10.6,Plg28°,Azm42°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S142°, δ17°,λ103°. NP2:ϕ_S309°,δ73°,λ86°.
ISC VII 30 13 02 16.4±.98 **0.8S**±.12 **123.38E**±.095 **33** **3.5b** **10 4-91**
EIDC VII 30 13 02 13.9 0.5S 123.8E 0 3.6b **¶97vii4584**
NEIC VII 30 13 02 16.3 0.79S 123.42E 33 3.6b
DJA VII 30 13 02 22.4 2.0S 123.8E 33 5.0D,4.2L
ISC DJA magnitude values may be overestimated
NEIC Less reliable solution.
ISC VII 31 06 14 52±1.8 **0.1S**±.15 **122.2E**±.20 **239**±18 **4.3b** **15 2-50**
EIDC VII 31 06 14 28.2 0.4N 122.9E 0 4.4b **¶97vii4686**
NEIC VII 31 06 14 43.3 0.07S 122.23E 150 4.3b
NEIC Less reliable solution.
ISC VIII 01 02 41 08.9±.80 **1.23N**±.044 **123.82E**±.055 **54**±9.3 **4.9b,4.4s** **39 1-95**
DJA VIII 01 02 41 05.3 1.5N 123.5E 2 5.3b,5.1D **¶97viii0013**
NEIC VIII 01 02 41 09.0 1.24N 123.80E 55 4.8b
BJI VIII 01 02 41 10.9 1.52N 124.09E 64 4.9b,4.7s
DJA VIII 03 09 55 54.7 **0.5S** **119.4E** **33** **4.7D,4.4L** **3-38**
EIDC VIII 03 09 55 11.7 4.3N 122.3E 0 4.0b **¶97viii0346**
ISC VIII 03 16 35 55±1.6 **1.94N**±.089 **122.6E**±.19 **119**±19 **4.4b** **18 7-58**
EIDC VIII 03 16 35 46.7 2.7N 125.3E 0 4.3b **¶97viii0383**
NEIC VIII 03 16 35 53.5 2.00N 122.69E 100 4.4b
NEIC Less reliable solution.
ISC VIII 05 14 07 17±5.6 **1.1N**±.43 **120.1E**±.40 **33** **3.7b** **8 5-39**
EIDC VIII 05 14 07 04.6 2.1N 119.7E 0 4.1b,3.2s **¶97viii0677**
NEIC VIII 05 14 07 17.1 1.07N 120.05E 33 4.0b
NEIC Poor solution.
EIDC VIII 05 22 14 36.5 **0.5S** **121.8E** **0** **3.6b** **18-36**
¶97viii0724
ISC VIII 07 06 45 44±5.6 **1.0N**±.40 **122.9E**±.49 **33** **3.7b** **7 2-37**
EIDC VIII 07 06 45 47.8 0.6N 123.9E 0 3.9b **¶97viii0900**
EIDC VIII 12 15 21 31.7 **1.1N** **121.7E** **0** **4.2b** **24-38**
¶97viii1773
ISC VIII 14 21 47 40.7±.84 **0.79S**±.030 **121.82E**±.037 **31**±8.6 **4.8b,4.9s** **137 3-161**
BJI VIII 14 21 47 40.7 0.72S 121.93E 32 5.1b,5.0s **¶97viii2116**
NEIC VIII 14 21 47 40.7 0.72S 121.85E 33 4.9b
MOS VIII 14 21 47 41.2 0.7S 122.0E 33 5.8b,5.0s
EIDC VIII 14 21 47 43.1 0.7S 121.9E 40 4.5b,4.8s
HRVD VIII 14 21 47 43.4±.2 0.43S±.02 121.75E±.03 28±3.0
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c48; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.28±.05; $M_{\theta\theta}$2.27±.05; $M_{\phi\phi}$−1.99±.08; $M_{r\theta}$−0.20±.14; $M_{r\phi}$−0.02±.11; $M_{\theta\phi}$−0.49±.05. Principal Axes: T 2.34,Plg4°,Azm186°; N −0.30,Plg86°,Azm23°; P −2.04,Plg1°,Azm277°. Best double couple: $M_0$2.2×10^{17}Nm, NP1: ϕ_S322°,δ86°,λ2°. NP2:ϕ_S231°,δ88°,λ176°.
ISC VIII 14 22 01 23.5±.59 **0.98S**±.070 **121.4E**±.12 **100** **3.9b** **15 3-63**
EIDC VIII 14 22 01 15.3 0.8S 121.9E 0 4.0b **¶97viii2121**
DJA VIII 14 22 01 17.0 0.6S 121.6E 100 4.9L,4.7D
NEIC VIII 14 22 01 17.7 0.70S 121.88E 33 3.9b
NEIC Less reliable solution.
ISC VIII 17 01 48 56±1.5 **0.3N**±.14 **119.6E**±.20 **33** **3.8b** **7 5-61**
EIDC VIII 17 01 48 58.7 1.7N 123.5E 0 3.9b **¶97viii2453**
EIDC VIII 19 15 32 55.8 **1.6N** **124.4E** **0** **3.6b** **7-37**
¶97viii2828
EIDC VIII 21 17 37 19.5 **0.8S** **123.5E** **0** **3.8b** **22-35**
¶97viii3124
ISC VIII 26 10 00 55.3±.61 **0.82N**±.033 **124.63E**±.057 **172**±7.0 **4.6b** **77 5-164**
BJI VIII 26 10 00 53.1 0.60N 124.78E 171 4.5b **¶97viii3830**
NEIC VIII 26 10 00 53.7 0.85N 124.64E 152 5.0b
EIDC VIII 26 10 00 54.0 0.8N 124.8E 144 4.2b
DJA VIII 26 10 00 59.4 0.3N 124.7E 29 6.2b,5.4L
ISC DJA magnitude calculations may be overestimated
ISC IX 06 06 19 03±5.9 **0.5N**±.52 **120.4E**±.42 **33** **3.7b** **11 2-40**
EIDC IX 06 06 19 03.5 2.0N 124.2E 0 3.9b **¶97ix0870**
EIDC LO CONF Location
DJA IX 09 12 43 19.6 **1.0S** **120.6E** **33** **4.4D**,4.2L **¶97ix1377**
DJA IX 19 10 03 39.2 **0.7S** **119.8E** **100** 4.5D,3.8L **¶97ix2778**
ISC IX 20 10 41 49.0±.78 **1.37N**±.048 **121.74E**±.084 **506**±11 **4.6b** **61 8-162**
NEIC IX 20 10 41 48.7 1.38N 121.73E 500 4.9b **¶97ix2930**
BJI IX 20 10 41 49.3 1.34N 122.15E 526 4.6b
EIDC IX 20 10 41 49.7 1.4N 121.8E 495 4.0b
EIDC IX 24 22 57 04.3 **1.4N** **124.9E** **0** **4.1b** **¶97ix3645**
DJA IX 28 15 09 43.7 **1.0S** **121.2E** **33** 4.4D,4.2L **¶97ix4675**
ISC X 03 10 27 04.1±.42 **0.85S**±.050 **120.61E**±.074 **33** **4.0b,3.7s** **27 3-73**
EIDC X 03 10 27 01.9 0.8S 120.8E 0 4.1b,3.7s **¶97x0448**
NEIC X 03 10 27 04.0 0.85S 120.53E 33 4.2b
BJI X 03 10 27 10.5 0.29S 120.44E 44 4.4b
DJA X 03 12 44 15.9 **0.7S** **121.2E** **33** **4.7D,4.1L** **¶97x0463**
ISC X 04 04 38 32±1.8 **0.09N**±.096 **122.4E**±.17 **184**±20 **4.2b** **18 3-92**
EIDC X 04 04 38 13.0 0.8N 123.4E 0 4.2b **¶97x0582**
NEIC X 04 04 38 32.1 0.10N 122.41E 186 4.4b
NEIC Less reliable solution.
ISC X 04 05 03 44±2.3 **0.0N**±.18 **122.3E**±.21 **167**±33 **4.4b** **17 3-37**
EIDC X 04 05 03 25.2 1.1N 123.7E 0 4.3b **¶97x0585**
NEIC X 04 05 03 43.9 0.03N 122.32E 167 4.5b
NEIC Less reliable solution.
EIDC X 07 09 49 44.3 **0.8N** **123.0E** **0** **3.9b** **¶97x1222**
ISC X 08 14 59 35±2.2 **0.8S**±.17 **119.5E**±.23 **80**±23 **3.7b** **11 3-39**
EIDC X 08 14 59 27.3 0.8S 119.5E 0 4.0b,3.2s **¶97x1433**
NEIC X 08 14 59 35.3 0.79S 119.55E 82 4.1b
NEIC Less reliable solution.
NEIC Felt I=III MM at Palu.
ISC X 09 05 14 13±1.0 **0.3S**±.12 **124.0E**±.11 **100** **3.5b** **8 2-36**
EIDC X 09 05 13 52.3 1.0N 123.9E 0 3.8b,3.9s **¶97x1531**
NEIC X 09 05 14 08.7 0.79N 123.13E 187 4.0b
NEIC Less reliable solution.
ISC X 09 06 06 44±1.5 **0.08N**±.099 **123.6E**±.20 **174**±15 **4.1b** **16 2-103**
NEIC X 09 06 06 44.6 0.08N 123.59E 175 4.3b **¶97x1538**
EIDC X 09 06 06 52.9 0.0S 123.5E 245 3.8b
NEIC Less reliable solution.
ISC X 10 02 59 59±2.3 **0.1N**±.12 **123.2E**±.15 **143**±24 **4.3b** **25 5-93**
NEIC X 10 02 59 59.4 0.03N 123.17E 150 4.6b **¶97x1683**
EIDC X 10 03 00 01.1 0.0N 123.4E 150 3.9b
ISC X 16 00 08 08±1.2 **1.02N**±.043 **120.12E**±.057 **63**±13 **4.8b** **66 4-155**
BJI X 16 00 08 06.9 1.10N 120.05E 49 5.0b,4.6s **¶97x2752**
NEIC X 16 00 08 07.6 1.01N 120.08E 58 4.9b
EIDC X 16 00 08 09.3 1.0N 120.1E 58 4.4b
ISC X 21 02 10 40.9±.93 **0.5N**±.17 **123.9E**±.30 **33** **4.1b** **10 19-60**
EIDC X 21 02 10 37.7 0.6N 124.1E 0 4.1b,4.5L **¶97x3588**
NEIC X 21 02 10 40.7 0.48N 123.81E 33 4.2b
NEIC Poor solution.
EIDC X 26 23 40 34.5 **0.7N** **123.6E** **0** **4.0b** **¶97x4536**
ISC X 30 16 27 59±1.2 **0.87N**±.051 **119.55E**±.056 **43**±13 **4.5b,4.8s** **51 4-85**
EIDC X 30 16 27 54.9 0.9N 119.7E 0 4.3b,4.8s **¶97x5067**
NEIC X 30 16 27 57.5 0.94N 119.57E 33 4.7b,4.9s
BJI X 30 16 27 59.8 1.06N 119.44E 34 4.9b,5.0s
MOS X 30 16 28 06.4 2.3N 122.5E 33 5.0b,4.7s
EIDC X 30 19 59 16.6 **0.8S** **120.8E** **0** **3.6b** **¶97x5082**
ISC X 30 23 05 59.4±.84 **0.20S**±.045 **122.93E**±.065 **95**±9.3 **4.4b** **37 3-90**
BJI X 30 23 05 59.5 0.20S 122.90E 100 4.9b **¶97x5103**
NEIC X 30 23 05 59.5 0.17S 122.89E 100 4.6b
EIDC X 30 23 06 01.2 0.2S 123.0E 100 4.1b,3.0s
NEIC Felt I=III MM at Luwuk.
ISC X 31 18 32 25.3±.63 **0.05N**±.037 **123.14E**±.042 **179**±6.9 **4.9b** **105 2-162**
BJI X 31 18 32 17.1 0.80S 123.81E 175 5.1b **¶97x5214**
MOS X 31 18 32 25.0 0.1N 123.1E 178 5.1b
KLM X 31 18 32 25 0.1N 123.1E 175 4.4L
NEIC X 31 18 32 25.0 0.06N 123.12E 175 5.0b
EIDC X 31 18 32 32.6 0.1N 123.3E 237 4.5b,3.5s
KLM Mb5.0
ISC XI 01 13 23 16±3.0 **0.3N**±.17 **120.4E**±.20 **57**±30 **3.8b** **10 4-45**
NEIC XI 01 13 23 15.7 0.34N 120.40E 57 3.8b **¶97xi0085**
EIDC XI 01 13 23 20.9 1.2N 124.7E 0 4.0b
NEIC Poor solution.
DJA XI 02 10 31 24.9±.79 **0.8S** **120.8E** **33** 4.5D,3.2L **3-4**
DJA Error ellipse is semi−major=28.0km semi−minor=8.0km azimuth=73 **¶97xi0236**
DJA XI 05 08 06 31.1±.91 **0.6S** **119.8E** **79**±11.5 4.5D,4.3L **3-4**
DJA Error ellipse is semi−major=39.0km semi−minor=14.5km azimuth=86 **¶97xi0752**
DJA XI 06 10 33 23.7±1.18 **0.7S** **120.5E** **48**±26.9 **4.7D,4.5L** **3-4**
DJA Error ellipse is semi−major=36.9km semi−minor=15.6km azimuth=79 **¶97xi0960**
DJA XI 11 04 32 22.9±1.59 **0.0S** **119.9E** **33** 4.7D,**4.4L** **3-4**
DJA Error ellipse is semi−major=51.5km semi−minor=32.4km azimuth=58 **¶97xi1733**
DJA XI 11 13 21 42.8±1.04 **0.6S** **119.9E** **33** **4.6D,4.2L** **0-3**
DJA Error ellipse is semi−major=42.4km semi−minor=22.2km azimuth=91 **¶97xi1795**
ISC XI 13 09 21 44.6±.51 **0.17S**±.027 **122.85E**±.042 **175**±5.7 **4.6b** **131 3-162**
BJI XI 13 09 21 38.3 0.70S 123.42E 170 4.7b **¶97xi2108**
KLM XI 13 09 21 44 0.1S 122.9E 170 4.1L
NEIC XI 13 09 21 44.1 0.10S 122.91E 170 4.8b
EIDC XI 13 09 21 45.4 0.0S 123.0E 169 4.3b,4.4s
KLM Mb4.8

| Agency | | Origin Time | | |

ISC IX 17 14 50 36.4±.69 **2.10N**±.024 **126.61E**±.033 **45**±6.3 **5.6b,5.5s 350 2-166**
EIDC IX 17 14 50 31.4 2.1N 126.5E 0 5.5b,4.7L **¶97ix2522**
BJI IX 17 14 50 34.2 1.96N 126.53E 38 5.7b,5.6s
NEIC IX 17 14 50 35.3 2.11N 126.60E 33 5.7b,5.5s
MOS IX 17 14 50 35.8 2.2N 126.6E 33 6.1b,5.4s
HRVD IX 17 14 50 43.6±.1 2.42N±.01 126.59E±.01 38±.5
NEIC Mw6.0(GS), Me5.7(GS). Felt I=III MM.
NEIC Mw 6.0 (HRV). Felt I=III MM at Bitung, Indonesia.
NEIC Radiated energy from the P−wave first−motion solution: 8.5±1.8×10^{12}Nm/13
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S230°,δ40°,λ120°. NP2:ϕ_S13°,δ56°,λ67°. Principal axes: T Plg69°,Azm232°; P Plg9°,Azm119°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s28, scale 10^{18}Nm; M_{rr}1.02; $M_{\theta\theta}$0.45; $M_{\phi\phi}$−1.47; $M_{r\theta}$−0.24; $M_{r\phi}$0.07; $M_{\theta\phi}$−0.45. Depth 37km; Principal axes: T 1.13,Plg67°,Azm193°; N 0.44,Plg23°, Azm12°; P −1.57,Plg0°,Azm103°. Best double couple: $M_0$1.3×10^{18}Nm; NP1:ϕ_S214°,δ49°, λ122°. NP2:ϕ_S351°,δ50°,λ59°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c127; Mantle waves: s47,c70; Half duration: 2s4. Moment tensor: Scale 10^{18}Nm; M_{rr}1.26±.01; $M_{\theta\theta}$−0.22±.01; $M_{\phi\phi}$−1.03±.01; $M_{r\theta}$−0.20±.02; $M_{r\phi}$−0.40±.02; $M_{\theta\phi}$−0.44±.01. Principal Axes: T 1.33,Plg80°,Azm119°; N −0.03,Plg1°,Azm24°; P −1.30,Plg10°,Azm294°. Best double couple: $M_0$1.3×10^{18}Nm, NP1:ϕ_S23°,δ35°,λ89°. NP2:ϕ_S205°,δ55°,λ91°.
EIDC IX 18 00 01 32.1 1.6N 125.8E 0 3.8b ¶97ix2581
EIDC LO CONF Location
ISC IX 19 23 30 41.9±.75 **2.08N**±.099 **126.9E**±.14 **33 3.9b 9 2-72**
EIDC IX 19 23 30 39.2 2.0N 126.8E 0 3.9b **¶97ix2870**
NEIC IX 19 23 30 41.9 2.08N 126.90E 33 4.1b
NEIC Less reliable solution.
EIDC IX 21 16 33 14.9 1.1N 126.9E 0 3.5b ¶97ix3127
EIDC IX 27 02 03 50.3 2.3N 126.5E 0 3.5b ¶97ix4221
ISC X 03 10 58 05.0±.95 **0.13N**±.041 **125.94E**±.047 **45**±10 **4.6b,4.2s 58 2-124**
EIDC X 03 10 58 00.9 0.1N 126.1E 0 4.5b,4.2s **¶97x0449**
BJI X 03 10 58 01.2 0.10N 126.00E 33 4.8b
NEIC X 03 10 58 03.7 0.14N 125.97E 33 4.8b,4.3s
ISC X 03 11 11 45±1.5 **0.1N**±.23 **126.2E**±.87 **33 3.9b 9 21-60**
EIDC X 03 11 11 42.7 0.1N 126.5E 0 3.9b **¶97x0451**
ISC X 04 03 36 49±1.8 **0.78N**±.045 **126.01E**±.070 **43**±17 **4.7b,4.1s 65 7-124**
EIDC X 04 03 36 44.7 0.8N 126.1E 0 4.7b,3.5s **¶97x0572**
NEIC X 04 03 36 47.8 0.76N 125.97E 33 4.8b
BJI X 04 03 36 48.3 1.16N 125.72E 17 4.8b
EIDC X 06 18 18 55.4 0.2N 126.7E 0 3.5b ¶97x1094
EIDC X 07 02 03 37.3 2.1N 127.3E 0 3.6b ¶97x1156
EIDC X 07 23 22 16.5 1.6N 126.6E 0 4.1b ¶97x1319
ISC X 08 07 16 18.6±.78 **2.57N**±.027 **127.19E**±.051 **61**±7.6 **5.0b 112 3-139**
EIDC X 08 07 16 13.0 2.5N 127.1E 0 4.9b,5.4L **¶97x1366**
BJI X 08 07 16 15.0 2.68N 126.81E 15 5.1b,4.8s
MOS X 08 07 16 15.3 2.6N 127.4E 33 5.5b
NEIC X 08 07 16 15.9 2.55N 127.24E 33 5.2b
HRVD X 08 07 16 19.9±1.3 2.87N±.08 127.44E±.11 59±7.6
NEIC Mw5.2(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c31; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.97±.43; $M_{\theta\theta}$−2.87±.63; $M_{\phi\phi}$−2.10±.73; $M_{r\theta}$−3.59±1.25; $M_{r\phi}$−2.55±.84; $M_{\theta\phi}$−3.17±.72. Principal Axes: T 6.58,Plg70°,Azm151°; N 0.67,Plg4°,Azm51°; P −7.25,Plg20°,Azm320°. Best double couple: $M_0$6.9×10^{16}Nm, NP1: ϕ_S43°,δ25°,λ82°. NP2:ϕ_S233°,δ65°,λ94°.
ISC X 12 04 09 35.9±.62 **1.77N**±.025 **126.42E**±.037 **62**±6.0 **5.2b 186 2-165**
BJI X 12 04 09 35.0 1.79N 126.40E 57 5.3b,4.3s **¶97x1984**
MOS X 12 04 09 35.7 1.8N 126.4E 57 5.5b
NEIC X 12 04 09 35.7 1.75N 126.38E 58 5.3b
EIDC X 12 04 09 36.4 1.7N 126.4E 50 4.9b
HRVD X 12 04 09 39.6±.6 1.99N±.06 126.63E±.11 74±5.9
NEIC Mw5.2(HRV)
NEIC Felt I=II MM at Bitung and Manado, Indonesia.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c30; Mantle waves: s1,c1; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.30±.63; $M_{\theta\theta}$−5.56±.69; $M_{\phi\phi}$3.26±1.19; $M_{r\theta}$1.53±.67; $M_{r\phi}$1.94±.70; $M_{\theta\phi}$−3.70±.70. Principal Axes: T 5.26,Plg27°,Azm255°; N 2.11,Plg60°,Azm46°; P −7.37,Plg12°,Azm159°. Best double couple: $M_0$6.3×10^{16}Nm, NP1:ϕ_S294°,δ62°,λ169°. NP2:ϕ_S29°,δ81°,λ28°.
ISC X 13 19 58 14.5±.46 **1.87N**±.065 **126.8E**±.12 **33 4.4b**,4.4s **25 5-92**
EIDC X 13 19 58 12.5 1.6N 126.6E 0 4.4b,5.4L **¶97x2276**
BJI X 13 19 58 13.3 1.80N 126.70E 33 4.5b
NEIC X 13 19 58 15.3 1.75N 126.70E 33 4.5b
NEIC Less reliable solution.
ISC X 23 16 50 03±1.3 **1.1N**±.24 **126.4E**±.38 **33 3.5b 4 22-88**
EIDC X 23 16 49 59.4 1.2N 126.6E 0 3.5b **¶97x4030**
ISC Poorly determined
ISC X 26 12 08 05±1.5 **2.9N**±.28 **127.3E**±.54 **33 3.5b 4 5-37**
EIDC X 26 12 08 02.7 2.8N 127.3E 0 3.6b **¶97x4457**
ISC Poorly determined
EIDC X 27 22 02 56.7 2.5N 127.4E 0 4.0b ¶97x4665
EIDC X 28 15 14 05.6 2.6N 127.7E 0 3.9b ¶97x4779
EIDC XI 04 14 43 09.3 0.5N 126.6E 0 3.9b ¶97xi0655
EIDC XI 06 16 10 30.6 1.3N 125.5E 0 3.4b ¶97xi1000
ISC XI 08 20 27 22±4.2 **0.56N**±.059 **126.3E**±.11 **30**±32 **4.5b**,3.5s **33 2-118**
BJI XI 08 20 27 22.3 0.94N 125.68E 7 4.4b **¶97xi1347**
NEIC XI 08 20 27 22.4 0.56N 126.33E 33 4.7b
EIDC XI 08 20 27 32.1 0.5N 126.3E 108 4.0b,3.5s
EIDC XI 17 18 22 37.9 2.3N 126.6E 0 4.2b ¶97xi2844
ISC XI 19 20 52 28±2.6 **0.51N**±.087 **125.6E**±.13 **71**±26 **4.3b 26 6-164**
BJI XI 19 20 52 24.5 0.60N 125.70E 33 4.6b **¶97xi3311**
NEIC XI 19 20 52 24.5 0.63N 125.77E 33 4.5b
EIDC XI 19 20 52 30.1 0.4N 125.5E 67 4.1b
ISC XI 23 10 44 52±2.7 **1.7N**±.21 **126.8E**±.23 **138**±21 **4.4b 16 2-41**
EIDC XI 23 10 44 41.2 2.0N 127.3E 24 4.0b **¶97xi4099**
NEIC XI 23 10 44 52.0 1.74N 126.84E 136 4.6b
NEIC Less reliable solution.
EIDC XI 26 00 13 39.3 2.9N 127.5E 0 3.6b,3.2s **¶97xi4601**
ISC XI 27 04 41 06±6.9 **2.1N**±.23 **127.2E**±.30 **178**±60 **4.1b 13 16-86**
EIDC XI 27 04 40 46.4 2.5N 127.4E 0 4.1b **¶97xi4795**
NEIC XI 27 04 40 49.7 2.40N 127.18E 33 4.3b
NEIC Poor solution.
ISC XI 29 03 42 02.7±.62 **2.22N**±.025 **126.66E**±.035 **51**±5.8 **5.4b,5.3s 255 2-166**
EIDC XI 29 03 41 57.3 2.2N 126.6E 0 5.4b,5.5L **¶97xi5190**
NEIC XI 29 03 42 01.6 2.21N 126.65E 43 5.5b,5.4s
BJI XI 29 03 42 01.9 2.26N 126.66E 47 5.4b,5.3s
MOS XI 29 03 42 02.9 2.4N 126.6E 44 5.9b,5.2s
HRVD XI 29 03 42 08.9±.2 2.09N±.03 126.49E±.03 34±2.3
NEIC Mw5.8(HRV)
NEIC Felt I=III MM at Tondano and II MM at Bitung, Sulawesi.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c73; Half duration: 2s0. Moment tensor: Scale 10^{17}Nm; M_{rr}4.20±.13; $M_{\theta\theta}$−0.20±.17; $M_{\phi\phi}$−3.99±.22; $M_{r\theta}$0.84±.29; $M_{r\phi}$−4.31±.35; $M_{\theta\phi}$−1.19±.15. Principal Axes: T 6.29,Plg64°,Azm65°; N −0.34, Plg13°,Azm183°; P −5.95,Plg22°,Azm278°. Best double couple: $M_0$6.1×10^{17}Nm, NP1: ϕ_S32°,δ26°,λ122°. NP2:ϕ_S178°,δ68°,λ76°.
ISC XII 01 06 48 25.5±.70 **1.67N**±.027 **126.36E**±.042 **78**±7.0 **5.1b 135 5-165**
NEIC XII 01 06 48 23.7 1.67N 126.44E 61 5.2b **¶97xii0047**
EIDC XII 01 06 48 24.6±.59 1.7N 126.6E 58±4.0 4.8b
BJI XII 01 06 48 24.7 1.81N 126.27E 63 5.2b,4.8s
HRVD XII 01 06 48 29.1±.7 2.42N±.07 126.56E±.08 48±7.6
NEIC Mw5.4(HRV).
EIDC Error ellipse is semi−major=21.8km semi−minor=8.0km azimuth=77
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c33; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}0.40±.07; $M_{\theta\theta}$−0.69±.09; $M_{\phi\phi}$0.29±.13; $M_{r\theta}$−1.01±.13; $M_{r\phi}$0.68±.12; $M_{\theta\phi}$0.50±.07. Principal Axes: T 1.17,Plg56°,Azm235°; N 0.45, Plg13°,Azm125°; P −1.62,Plg31°,Azm27°. Best double couple: $M_0$1.4×10^{17}Nm, NP1:ϕ_S81°, δ18°,λ44°. NP2:ϕ_S308°,δ77°,λ103°.
ISC XII 01 09 10 30.6±.52 **1.64N**±.071 **126.6E**±.20 **33 4.5b 17 20-87**
NEIC XII 01 09 10 30.6 1.62N 126.59E 33 4.4b **¶97xii0057**
EIDC XII 01 09 10 37.5±3.65 1.6N 126.7E 83±34.8 4.0b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=39.6km semi−minor=10.8km azimuth=78
EIDC XII 01 09 21 35.8 1.2N 126.9E 0 3.8b 22-36
¶97xii0058
EIDC Origin time error = 14.45Error ellipse is semi−major=277.8km semi−minor=217.8km azimuth=72LO CONF Location
ISC XII 01 20 35 36±4.7 **1.3N**±.15 **126.0E**±.26 **121**±45 **4.2b 19 7-94**
EIDC XII 01 20 35 23.0±.73 1.5N 126.5E 0 4.3b,3.8L **¶97xii0142**
NEIC XII 01 20 35 26.9 1.52N 126.39E 33 4.3b
DJA XII 01 20 35 29.0±1.53 1.0N 126.7E 32±5.4 5.1L
EIDC Error ellipse is semi−major=54.2km semi−minor=12.0km azimuth=75
NEIC Less reliable solution.
DJA Error ellipse is semi−major=120.7km semi−minor=35.1km azimuth=141
EIDC XII 02 18 19 09.5 2.3N 127.4E 0 3.5b 23-37
¶97xii0292
EIDC Origin time error = 12.81Error ellipse is semi−major=330.9km semi−minor=195.8km azimuth=78
ISC XII 04 15 48 53±2.0 **2.20N**±.047 **126.7E**±.13 **70**±19 **4.5b 39 6-123**
EIDC XII 04 15 48 45.5±.50 2.1N 126.6E 0 4.5b,4.4s **¶97xii0640**
BJI XII 04 15 48 45.6 2.20N 126.60E 10 4.6b,4.7s
NEIC XII 04 15 48 45.6 2.24N 126.56E 10 4.6b
EIDC Error ellipse is semi−major=27.0km semi−minor=10.3km azimuth=86
NEIC Less reliable solution.
ISC XII 05 13 56 13.0±.61 **0.66N**±.024 **125.12E**±.032 **99**±6.1 **5.4b 187 6-164**
MOS XII 05 13 56 07.4 1.0N 125.0E 33 6.0b **¶97xii0891**
EIDC XII 05 13 56 11.5±1.62 0.7N 125.2E 67±13.3 5.3b
NEIC XII 05 13 56 12.3 0.66N 125.11E 89 5.5b
BJI XII 05 13 56 14.2 0.95N 125.19E 96 5.4b
EIDC Error ellipse is semi−major=20.8km semi−minor=10.2km azimuth=78
NEIC Felt I=IV MM at Tondano and III MM at Manado, Sulawesi.
ISC XII 06 21 02 34.8±.90 **0.66N**±.046 **125.12E**±.082 **96**±11 **4.4b 27 6-94**
BJI XII 06 21 02 33.3 0.60N 125.20E 80 4.6b **¶97xii1525**
NEIC XII 06 21 02 33.3 0.68N 125.17E 80 4.7b
EIDC XII 06 21 02 35.3±.73 0.6N 125.0E 86±7.5 4.2b,3.6s
DJA XII 06 21 02 36.0±.30 0.4N 125.3E 82±7.2 5.6L,4.9D
EIDC Error ellipse is semi−major=29.2km semi−minor=11.1km azimuth=72
DJA Error ellipse is semi−major=19.7km semi−minor=5.4km azimuth=161
EIDC XII 10 08 33 30.2 1.4N 126.9E 0 3.7b 22-36
¶97xii2317
EIDC Origin time error = 14.31Error ellipse is semi−major=316.1km semi−minor=215.6km azimuth=74
ISC XII 11 09 50 35.9±.68 **2.33N**±.026 **127.06E**±.041 **66**±6.8 **5.0b 137 5-166**
EIDC XII 11 09 50 28.9±.48 2.3N 127.1E 0 5.0b **¶97xii2539**
DJA XII 11 09 50 31.0±.58 2.9N 127.0E 26±3.4 6.2L,5.5b
MOS XII 11 09 50 36.2 2.4N 127.2E 66 5.6b
NEIC XII 11 09 50 36.2 2.29N 127.06E 69 5.2b
BJI XII 11 09 50 36.3 2.22N 127.17E 74 5.0b,4.8s
HRVD XII 11 09 50 37.9±1.0 2.55N±.09 127.07E±.20 69±7.6
EIDC Error ellipse is semi−major=31.4km semi−minor=8.0km azimuth=84
DJA Error ellipse is semi−major=13.1km semi−minor=5.4km azimuth=177
NEIC Mw5.6(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s6,c9; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.28±.56; $M_{\theta\theta}$−0.15±.54; $M_{\phi\phi}$2.43±1.08; $M_{r\theta}$−1.41±.48; $M_{r\phi}$−0.52±.40; $M_{\theta\phi}$0.83±.33. Principal Axes: T 2.84,Plg11°,Azm110°; N 0.14, Plg24°,Azm205°; P −2.98,Plg64°,Azm358°. Best double couple: $M_0$2.9×10^{17}Nm, NP1: ϕ_S174°,δ40°,λ−129°. NP2:ϕ_S40°,δ60°,λ−62°.
ISC XII 18 06 32 53.8±.88 **0.7N**±.15 **126.2E**±.49 **300 3.8b 10 19-73**
EIDC XII 18 06 33 13.3 0.7N 127.1E 507±154.5 3.3b **¶97xii3726**
EIDC Origin time error = 11.19Error ellipse is semi−major=85.2km semi−minor=27.7km azimuth=90
ISC XII 19 05 34 09±1.3 **0.70N**±.049 **125.04E**±.087 **93**±13 **4.5b 56 6-129**
BJI XII 19 05 34 05.8 0.10N 124.94E 103 4.6b **¶97xii3897**
NEIC XII 19 05 34 08.0 0.71N 125.06E 81 4.7b
EIDC XII 19 05 34 10.0±.55 0.7N 125.1E 82±4.8 4.2b,3.5s
EIDC Error ellipse is semi−major=24.7km semi−minor=9.6km azimuth=76
ISC XII 22 10 59 00±1.2 **0.66N**±.053 **125.3E**±.11 **101**±13 **4.4b 28 6-125**
BJI XII 22 10 58 52.7 0.70N 125.20E 33 4.6b,4.7s **¶97xii4409**
NEIC XII 22 10 58 52.7 0.69N 125.23E 33 4.7b
EIDC XII 22 10 58 57.1±5.82 0.6N 125.3E 56±56.9 4.3b,4.2L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=30.9km semi−minor=13.4km azimuth=75
EIDC XII 23 05 51 46.2±3.40 **2.6N 126.7E 27**±9.5 **3.7b 16-86**
¶97xii4548
EIDC Error ellipse is semi−major=168.1km semi−minor=33.0km azimuth=87
EIDC XII 24 13 43 51.9 1.1N 125.6E 0 3.7b 23-36
¶97xii4764
EIDC Origin time error = 13.77Error ellipse is semi−major=313.8km semi−minor=207.7km azimuth=63Multiple, mixed az
EIDC XII 26 01 20 19.5±5.09 **2.2N 127.5E 0 3.3b**,2.1s **23-86**
¶97xii5021
EIDC Error ellipse is semi−major=309.0km semi−minor=32.1km azimuth=88
ISC XII 26 04 57 13.7±.46 **1.22N**±.070 **126.2E**±.13 **33 4.4b 27 15-94**
EIDC XII 26 04 57 11.0±.68 1.2N 126.3E 0 4.5b,4.1L **¶97xii5050**
NEIC XII 26 04 57 13.5 1.22N 126.17E 33 4.3b
EIDC Error ellipse is semi−major=58.8km semi−minor=13.2km azimuth=77

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EIDC VII 02 00 50 58.3 1.6S 128.9E 0 4.0b,3.9L **19-62**
¶97vii0161
EIDC VII 02 23 23 02.1 0.1S 129.6E 0 3.7b 20-34
¶97vii0319

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**07 06 03 45**±4.0	**2.5N**±.70	**128.7E**±.92	**33**	**4.0b**	**7**	**23-36**
EIDC	VII	07 06 03 38.9	2.9N	129.3E	0	4.1b		¶97vii1000
EIDC	**VII**	**09 09 26 08.0**	**1.9N**	**127.8E**	**0**	**3.3b**		**23-86**
								¶97vii1309
EIDC	**VII**	**09 09 38 07.2**	**0.1S**	**128.6E**	**0**	**3.4b**		**21-88**
								¶97vii1312
EIDC	**VII**	**09 14 14 45.6**	**1.3N**	**129.2E**	**0**	**3.6b**		**22-35**
								¶97vii1352
ISC	**VII**	**10 12 41 13**±1.0	**0.4S**±.16	**128.8E**±.31	**33**	**3.6b**	**5**	**20-88**
EIDC	VII	10 12 41 11.2	0.3S	129.3E	0	3.5b		¶97vii1512
ISC	**VII**	**13 13 56 41**±1.0	**1.9S**±.20	**128.2E**±.39	**33**	**4.1b**	**8**	**19-63**
NEIC	VII	13 13 56 40.9	1.92S	128.22E	33	4.1b		¶97vii1975
EIDC	VII	13 13 56 47.6	2.0S	128.2E	85	3.6b,4.2L		
NEIC		Poor solution.						
ISC	**VII**	**14 11 05 00**±1.3	**1.6N**±.29	**127.4E**±.62	**33**	**3.8b**	**6**	**22-63**
EIDC	VII	14 11 04 58.4	1.5N	127.3E	0	3.9b		¶97vii2111
NEIC	VII	14 11 05 00.3	1.58N	127.33E	33	3.5b		
NEIC		Poor solution.						
ISC	**VII**	**15 02 24 45**±1.1	**1.6N**±.12	**127.1E**±.44	**100**	**4.1b**	**12**	**20-158**
NEIC	VII	15 02 24 45.5	1.58N	127.03E	100	4.3b		¶97vii2238
EIDC	VII	15 02 24 49.4	1.5N	127.4E	107	3.8b		
NEIC		Poor solution.						
EIDC	**VII**	**15 08 11 35.3**	**1.8S**	**127.7E**	**0**	4.2b,4.6L		**19-33**
								¶97vii2274
EIDC	**VII**	**18 13 51 43.7**	**1.1N**	**127.0E**	**0**	**3.6b**		**2-36**
								¶97vii2753
EIDC	**VII**	**19 00 58 17.6**	**0.8S**	**128.8E**	**0**	3.4b,3.2L		**20-88**
								¶97vii2807
ISC	**VII**	**20 04 35 24**±1.3	**0.7N**±.21	**127.4E**±.69	**33**	**3.8b**	**6**	**22-95**
EIDC	VII	20 04 35 20.0	0.8N	127.1E	0	3.9b		¶97vii3016
ISC	**VII**	**22 17 25 29.2**±.31	**1.39N**±.040	**128.58E**±.064	**33**	**4.6b,3.7s**	**53**	**6-158**
NEIC	VII	22 17 25 29.0	1.40N	128.51E	33	4.7b		¶97vii3400
BJI	VII	22 17 25 29.7	1.90N	128.31E	5	4.7b		
EIDC	VII	22 17 25 30.6	1.4N	128.6E	31	4.2b,3.7s		
ISC	**VII**	**27 20 22 17**±3.0	**0.90N**±.058	**127.7E**±.14	**53**±29	**4.3b**	**37**	**9-87**
EIDC	VII	27 20 22 11.7	0.9N	127.5E	0	4.1b		¶97vii4159
BJI	VII	27 20 22 14.1	0.90N	127.88E	32	4.8b		
NEIC	VII	27 20 22 15.0	0.93N	127.61E	33	4.4b		
NEIC		Less reliable solution.						
ISC	**VII**	**28 21 35 26**±1.1	**1.76N**±.044	**127.29E**±.068	**119**±11	**4.8b**	**65**	**2-159**
BJI	VII	28 21 35 24.3	1.88N	127.47E	96	4.9b		¶97vii4331
NEIC	VII	28 21 35 25.8	1.78N	127.25E	116	5.0b		
EIDC	VII	28 21 35 27.6	1.7N	127.3E	116	4.2b		
ISC	**VII**	**29 22 05 34**±1.9	**1.12N**±.052	**127.1E**±.12	**55**±18	**4.4b,**3.2s	**39**	**2-94**
NEIC	VII	29 22 05 35.2	1.15N	127.05E	68	4.4b		¶97vii4491
BJI	VII	29 22 05 35.7	1.09N	127.02E	64	4.7b		
EIDC	VII	29 22 05 43.9	1.0N	126.8E	142	4.0b,3.2s		
ISC	**VIII**	**01 08 14 01.8**±.88	**1.51N**±.037	**127.18E**±.060	**160**±9.4	**4.8b**	**69**	**7-165**
EIDC	VIII	01 08 14 00.4	1.4N	126.9E	131	4.2b		¶97viii0039
MOS	VIII	01 08 14 00.8	1.5N	127.3E	146	5.6b		
BJI	VIII	01 08 14 00.9	1.69N	127.55E	149	4.5b		
NEIC	VIII	01 08 14 01.6	1.48N	127.18E	155	5.0b		
EIDC	**VIII**	**02 08 56 38.8**	**1.2N**	**127.8E**	**0**	**3.8b**		**22-40**
								¶97viii0193
EIDC	**VIII**	**04 09 10 40.1**	**0.9N**	**127.4E**	**0**	**3.8b**		**22-35**
								¶97viii0483
ISC	**VIII**	**06 14 06 07**±2.7	**1.2S**±.17	**129.8E**±.97	**33**	**3.7b**	**7**	**12-88**
EIDC	VIII	06 14 06 04.3	1.1S	130.6E	0	3.6b,3.9L		¶97viii0805
EIDC	**VIII**	**07 20 40 09.6**	**2.9N**	**128.5E**	**0**	**3.8b**		**23-37**
								¶97viii1001
EIDC	**VIII**	**07 20 54 16.5**	**0.7S**	**128.3E**	**0**	**3.5b**		**20-33**
								¶97viii1003
EIDC	**VIII**	**08 18 02 33.0**	**0.9S**	**129.1E**	**0**	3.6b,3.6L		**20-88**
								¶97viii1145
EIDC	**VIII**	**10 01 11 06.2**	**1.4S**	**128.6E**	**0**	**3.5b,**3.5L		**19-89**
								¶97viii1334
ISC	**VIII**	**12 10 53 43**±2.7	**2.8N**±.14	**128.7E**±.20	**203**±27	**4.2b**	**13**	**4-58**
NEIC	VIII	12 10 53 26.2	2.96N	128.80E	33	4.4b		¶97viii1726
EIDC	VIII	12 10 53 38.4	2.8N	128.8E	138	3.9b		
NEIC		Less reliable solution.						
EIDC	**VIII**	**13 22 17 00.9**	**2.0S**	**130.0E**	**0**	3.8b,3.7L		**18-32**
								¶97viii1967
ISC	**VIII**	**16 19 29 02**±1.2	**0.02N**±.044	**127.16E**±.081	**127**±12	**4.3b**	**44**	**7-95**
BJI	VIII	16 19 29 01.8	0.14N	127.15E	111	5.0b		¶97viii2409
DJA	VIII	16 19 29 02.5	0.2S	127.0E	100	5.8L,4.9D		
NEIC	VIII	16 19 29 03.2	0.06N	127.21E	141	4.4b		
EIDC	VIII	16 19 29 04.0	0.0N	127.2E	128	4.0b		
ISC		DJA magnitude calculations may be overestimated						
EIDC	**VIII**	**18 23 21 24.8**	**1.6S**	**127.4E**	**0**	4.1b,4.5L		**19-33**
								¶97viii2728
EIDC	**VIII**	**20 05 45 43.7**	**1.3N**	**127.0E**	**0**	**3.9b**		**2-36**
								¶97viii2916
ISC	**VIII**	**25 11 24 50.9**±.75	**2.3N**±.10	**128.8E**±.14	**33**	**3.8b**	**10**	**4-86**
EIDC	VIII	25 11 24 48.3	2.5N	129.7E	0	3.9b		¶97viii3684
NEIC	VIII	25 11 24 50.8	2.30N	128.78E	33	3.6b		
NEIC		Less reliable solution.						
EIDC	**VIII**	**25 13 00 39.0**	**2.6N**	**128.1E**	**0**	**3.5b**		**23-37**
								¶97viii3689
ISC	**VIII**	**27 07 10 56**±1.1	**1.6N**±.13	**127.2E**±.32	**100**	**4.0b**	**10**	**23-87**
EIDC	VIII	27 07 10 45.9	1.6N	127.2E	0	4.2b		¶97viii3951
NEIC	VIII	27 07 10 56.1	1.56N	127.23E	100	4.0b		
NEIC		Poor solution.						
ISC	**VIII**	**27 17 21 27**±1.5	**1.3N**±.14	**127.2E**±.81	**33**	**3.6b**	**8**	**22-59**
EIDC	VIII	27 17 21 24.3	1.3N	127.2E	0	3.7b		¶97viii4015
EIDC	**VIII**	**28 06 58 05.8**	**1.8N**	**128.0E**	**0**	**3.8b**		**23-36**
								¶97viii4098
EIDC	**VIII**	**28 10 17 00.2**	**1.8S**	**127.2E**	**0**	3.7b,3.7L		**19-33**
								¶97viii4114
EIDC	**VIII**	**29 20 29 31.7**	**2.3N**	**129.2E**	**0**	**3.8b**		**23-59**
								¶97viii4377
EIDC	**VIII**	**30 17 34 34.6**	**2.9N**	**128.8E**	**0**	**3.8b**		**6-58**
								¶97viii4519
ISC	**VIII**	**31 08 02 24**±1.1	**1.66N**±.045	**127.36E**±.070	**131**±11	**5.0b**	**59**	**3-159**
EIDC	VIII	31 08 02 22.2	1.7N	127.5E	96	4.2b		¶97viii4611
BJI	VIII	31 08 02 23.1	1.48N	127.57E	144	4.8b		
NEIC	VIII	31 08 02 23.4	1.65N	127.32E	124	5.2b		
EIDC	**IX**	**02 04 04 51.4**	**2.6N**	**128.8E**	**0**	**3.6b**		**¶97ix0219**
EIDC	**IX**	**02 16 55 07.0**	**0.7N**	**127.5E**	**0**	**3.4b**		**¶97ix0303**
ISC	**IX**	**05 19 52 35**±3.3	**1.6N**±.11	**128.2E**±.26	**116**±34	**4.0b**	**19**	**3-155**
BJI	IX	05 19 52 27.0	1.70N	128.70E	33	4.3b		**¶97ix0792**
NEIC	IX	05 19 52 27.0	1.72N	128.66E	33	4.4b		
EIDC	IX	05 19 52 27.2	1.6N	128.1E	26	3.8b		
NEIC		Less reliable solution.						
EIDC	**IX**	**08 10 07 34.1**	**1.4N**	**127.4E**	**0**	**3.3b**		**¶97ix1207**
ISC	**IX**	**09 16 36 53.6**±.80	**1.2N**±.14	**129.0E**±.31	**33**	**3.7b**	**9**	**22-60**
EIDC	IX	09 16 36 51.0	1.2N	129.0E	0	3.7b		¶97ix1409
NEIC	IX	09 16 36 53.5	1.14N	129.02E	33	3.9b		
NEIC		Less reliable solution.						
ISC	**IX**	**10 14 57 21**±3.1	**2.9N**±.20	**128.5E**±.36	**74**±32	**3.6b**	**8**	**5-58**
EIDC	IX	10 14 57 14.7	2.9N	128.5E	0	3.6b		¶97ix1535
NEIC	IX	10 14 57 22.0	2.80N	128.46E	81	3.8b		
NEIC		Poor solution.						
EIDC	**IX**	**15 11 49 39.7**	**0.2S**	**129.2E**	**0**	**3.5b**		**¶97ix2239**
EIDC		LO CONF Location						
ISC	**IX**	**17 07 01 47.2**±.92	**2.7N**±.13	**128.7E**±.28	**33**	**4.1b**	**11**	**23-37**
NEIC	IX	17 07 01 47.2	2.74N	128.70E	33	4.2b		¶97ix2479
EIDC	IX	17 07 01 49.7	2.7N	128.8E	38	3.9b		
NEIC		Poor solution.						
EIDC	**IX**	**17 19 34 41.0**	**1.4N**	**127.0E**	**0**	**3.8b**		**¶97ix2548**
EIDC	**IX**	**18 13 42 51.7**	**2.0N**	**128.7E**	**88**	**3.6b**		**¶97ix2666**
ISC	**IX**	**22 10 14 36**±4.0	**3.0N**±.67	**129.0E**±.89	**33**	**3.7b,**3.6s	**7**	**23-37**
EIDC	IX	22 10 14 34.7	2.6N	128.6E	0	3.9b,3.6s		**¶97ix3262**
EIDC	**IX**	**23 19 00 09.4**	**1.3S**	**127.7E**	**0**	3.3b,3.1L		**¶97ix3463**
ISC	**IX**	**24 20 07 05.2**±.76	**1.8N**±.11	**127.4E**±.44	**33**	**4.4b**	**11**	**20-59**
EIDC	IX	24 20 07 02.5	1.9N	127.4E	0	4.4b		¶97ix3624
NEIC	IX	24 20 07 05.2	1.82N	127.34E	33	4.5b		
NEIC		Poor solution.						
EIDC	**IX**	**25 06 11 47.1**	**2.0S**	**128.2E**	**0**	3.6b,4.1L		**¶97ix3691**
EIDC	**IX**	**25 09 51 06.7**	**1.0S**	**127.4E**	**0**	**3.5b**		**¶97ix3717**
ISC	**IX**	**28 07 14 07**±2.6	**1.0N**±.15	**127.1E**±.25	**95**±27	**4.2b**	**12**	**2-40**
EIDC	IX	28 07 13 58.9	1.5N	128.9E	0	4.4b		**¶97ix4573**
NEIC	IX	28 07 14 07.8	1.00N	127.04E	100	4.2b		
NEIC		Less reliable solution.						
EIDC	**IX**	**28 15 23 53.9**	**1.3N**	**127.0E**	**0**	**3.4b**		**¶97ix4682**
EIDC		LO CONF Location						
EIDC	**X**	**02 05 26 28.0**	**2.9N**	**128.1E**	**0**	**4.1b**		**¶97x0213**
EIDC		LO CONF Location						
EIDC	**X**	**07 17 50 07.0**	**2.6N**	**128.2E**	**0**	**3.3b**		**¶97x1282**
EIDC		LO CONF Location						
ISC	**X**	**11 22 19 59**±4.7	**2.77N**±.075	**128.5E**±.14	**34**±46	**4.3b**	**21**	**16-92**
EIDC	X	11 22 19 56.1	2.8N	128.6E	0	4.3b		**¶97x1947**
NEIC	X	11 22 19 59.1	2.78N	128.44E	33	4.5b		
BJI	X	11 22 20 00.4	3.39N	128.42E	12			
NEIC		Less reliable solution.						
ISC	**X**	**12 17 08 27**±1.3	**0.5N**±.15	**129.5E**±.24	**33**	**3.7b**	**8**	**2-60**
EIDC	X	12 17 08 24.4	0.5N	129.7E	0	3.6b		**¶97x2075**
NEIC	X	12 17 08 27.1	0.49N	129.52E	33	3.9b		
NEIC		Poor solution.						
ISC	**X**	**15 16 03 28.7**±.70	**2.9N**±.12	**128.7E**±.26	**33**	**3.9b**	**14**	**13-85**
EIDC	X	15 16 03 26.0	2.9N	129.1E	0	3.9b		**¶97x2671**
NEIC	X	15 16 03 41.3	2.72N	128.76E	150	3.9b		
NEIC		Less reliable solution.						
EIDC	**X**	**15 21 14 39.6**	**1.5N**	**127.1E**	**30**	**3.7b**		**¶97x2723**
ISC	**X**	**16 20 01 49**±1.3	**2.7N**±.23	**128.6E**±.35	**33**	**3.8b**	**4**	**23-85**
EIDC	X	16 20 01 46.1	2.8N	128.7E	0	3.7b		**¶97x2874**
ISC		Poorly determined						
EIDC	**X**	**18 16 49 57.1**	**1.7N**	**128.1E**	**0**	**3.9b**		**¶97x3195**
ISC	**X**	**22 13 44 58.9**±.73	**1.41S**±.077	**129.3E**±.13	**33**	**4.2b**	**12**	**2-62**
EIDC	X	22 13 44 56.6	1.5S	129.1E	0	4.1b,4.2L		**¶97x3826**
NEIC	X	22 13 44 59.0	1.33S	129.35E	33	4.1b		
NEIC		Less reliable solution.						
EIDC	**X**	**22 13 51 59.4**	**1.9N**	**127.6E**	**0**	**3.9b,**3.7L		**¶97x3827**
EIDC	**X**	**23 15 09 59.1**	**2.1N**	**128.2E**	**0**	**3.5b**		**¶97x4018**
EIDC	**XI**	**02 00 46 45.9**	**0.5S**	**128.2E**	**0**	**3.4b**		**¶97xi0169**
ISC	**XI**	**02 03 15 43.4**±.99	**2.0N**±.22	**129.7E**±.86	**33**	**4.0b**	**6**	**22-63**
EIDC	XI	02 03 15 40.4	1.9N	129.2E	0	4.0b		**¶97xi0188**
ISC	**XI**	**02 15 31 17.6**±.83	**1.5N**±.14	**127.3E**±.30	**33**	**3.8b**	**8**	**22-73**
EIDC	XI	02 15 31 14.9	1.4N	127.3E	0	3.9b		**¶97xi0292**
NEIC	XI	02 15 31 17.6	1.46N	127.30E	33	3.7b		
NEIC		Less reliable solution.						
ISC	**XI**	**04 20 21 15**±1.2	**0.5N**±.14	**127.4E**±.20	**33**	**3.6b**	**7**	**4-74**
EIDC	XI	04 20 21 12.5	0.4N	127.5E	0	3.5b		**¶97xi0687**
ISC	**XI**	**09 10 15 42**±2.6	**2.8N**±.10	**128.5E**±.20	**160**±27	**3.8b**	**14**	**4-92**
NEIC	XI	09 10 15 43.3	2.75N	128.37E	173			**¶97xi1431**
EIDC	XI	09 10 15 45.9	2.7N	128.5E	179	3.5b		
NEIC		Less reliable solution.						
EIDC	**XI**	**10 13 41 17.7**	**3.0N**	**128.7E**	**0**	**3.6b**		**¶97xi1618**
EIDC		LO CONF Location						
EIDC	**XI**	**11 00 07 14.5**	**2.8N**	**129.0E**	**0**	**3.8b**		**¶97xi1693**
EIDC	**XI**	**11 00 37 26.6**	**2.6N**	**129.0E**	**0**	**3.7b**		**¶97xi1699**
EIDC	**XI**	**11 07 37 57.8**	**1.1N**	**127.4E**	**0**	**4.0b**		**¶97xi1758**
EIDC	**XI**	**12 04 47 22.0**	**2.0S**	**128.8E**	**0**	3.9b,3.0s		**¶97xi1938**
ISC	**XI**	**15 01 14 54.3**±.73	**0.9N**±.13	**127.7E**±.23	**100**	**4.6b**	**17**	**4-72**
BJI	XI	15 01 14 44.2	0.50N	128.79E	64	4.6b,4.4s		**¶97xi2395**
NEIC	XI	15 01 14 47.2	0.99N	127.77E	33	4.6b		
NEIC		Less reliable solution.						
ISC	**XI**	**22 17 26 23**±7.4	**2.28N**±.073	**128.78E**±.086	**13**±46	**4.2b,**3.8s	**29**	**4-93**
NEIC	XI	22 17 26 25.4	2.29N	128.73E	33	4.2b		**¶97xi3920**
BJI	XI	22 17 26 25.6	2.46N	129.39E	29	4.8b		
EIDC	XI	22 17 26 27.5	2.2N	128.9E	34	3.9b,3.3s		
ISC	**XI**	**23 04 08 47**±11	**1.9S**±.99	**128.1E**±.74	**33**	3.4b	**4**	**16-32**
EIDC	XI	23 04 08 37.9	1.4S	127.6E	0	3.5b,3.6L		**¶97xi4025**
ISC		Poorly determined						
EIDC	**XI**	**24 19 46 13.1**	**1.9S**	**129.5E**	**0**	3.8b,3.9L		**¶97xi4375**
ISC	**XI**	**25 03 21 38**±3.0	**1.7N**±.14	**127.4E**±.24	**103**±31	**4.2b**	**12**	**3-72**
EIDC	XI	25 03 21 28.5	1.8N	127.5E	0	4.3b,3.8L		**¶97xi4438**
NEIC	XI	25 03 21 38.1	1.70N	127.42E	100	4.4b		
NEIC		Less reliable solution.						
ISC	**XI**	**26 04 38 05**±5.7	**0.98N**±.082	**127.87E**±.080	**5**±36	**4.4b,4.0s**	**27**	**3-93**
NEIC	XI	26 04 38 09.0	0.94N	127.84E	33	4.3b		**¶97xi4634**
BJI	XI	26 04 38 09.4	0.93N	127.95E	38	4.7b		
EIDC	XI	26 04 38 10.4	1.1N	128.5E	25	4.3b,3.8s		
NEIC		Less reliable solution.						
ISC	**XI**	**30 15 01 43**±1.7	**2.35N**±.050	**128.9E**±.12	**72**±16	**4.6b**	**40**	**6-85**
NEIC	XI	30 15 01 42.9	2.37N	128.87E	76	4.8b		**¶97xi5421**
BJI	XI	30 15 01 43.5	2.45N	128.90E	75	4.9b,4.9s		
EIDC	XI	30 15 01 45.2	2.4N	128.8E	83	4.0b,4.1s		
ISC	**XII**	**04 14 28 37**±2.4	**1.09S**±.094	**128.8E**±.10	**45**±24	**4.2b**	**25**	**3-123**
BJI	XII	04 14 28 35.8	1.48S	128.88E	53	4.9b		**¶97xii0626**
NEIC	XII	04 14 28 36.2	1.02S	128.79E	33	4.6b		

EIDC XII 04 14 28 36.9±1.25 1.2S 128.7E 25±8.7 4.0b,4.2L
EIDC Error ellipse is semi−major=28.4km semi−minor=9.2km azimuth=74
ISC XII 13 06 54 43.5±.73 **1.8N**±.13 **128.5E**±.18 **33** **4.1b** **12 4-86**
EIDC XII 13 06 54 41.5±2.04 1.8N 129.5E 0 3.7b **¶97xii2905**
EIDC Error ellipse is semi−major=97.2km semi−minor=26.0km azimuth=96
EIDC XII 16 11 08 37.9±1.21 **3.0N** **129.6E** **0** **3.9b** **23-63**
¶97xii3442
EIDC Error ellipse is semi−major=167.4km semi−minor=18.6km azimuth=75
ISC XII 18 06 04 23.0±.78 **1.9N**±.11 **128.4E**±.20 **33** **4.1b** **17 20-59**
EIDC XII 18 06 04 20.5±1.06 1.9N 129.0E 0 3.9b **¶97xii3720**
NEIC XII 18 06 04 23.5 2.06N 129.12E 33 3.5b
EIDC Error ellipse is semi−major=50.4km semi−minor=17.2km azimuth=80
NEIC Less reliable solution.
ISC XII 22 09 14 22.1±.87 **2.3N**±.16 **128.5E**±.26 **300** **4.0b** **21 23-92**
EIDC XII 22 09 14 27.9 2.3N 128.5E 344±194.5 3.6b **¶97xii4391**
EIDC Origin time error = 17.40Error ellipse is semi−major=97.5km semi−minor=21.5km azimuth=56
ISC XII 23 18 59 52.0±.60 **1.1N**±.10 **127.9E**±.17 **33** **4.0b** **22 14-63**
EIDC XII 23 18 59 50.9±.92 1.2N 128.7E 0 3.9b **¶97xii4643**
NEIC XII 23 18 59 53.7 1.12N 128.68E 33 4.2b
EIDC Error ellipse is semi−major=48.4km semi−minor=15.9km azimuth=75
NEIC Less reliable solution.
EIDC XII 24 09 57 01.7 **0.2S** **127.1E** **0** **3.7b,**3.8L **18-34**
¶97xii4739
EIDC Origin time error = 14.76Error ellipse is semi−major=236.3km semi−minor=73.7km azimuth=140
ISC XII 25 08 05 11±1.3 **2.97N**±.044 **128.70E**±.099 **219**±14 **4.3b** **43 5-120**
NEIC XII 25 08 05 11.1 2.98N 128.64E 217 4.4b **¶97xii4892**
EIDC XII 25 08 05 13.0±2.24 3.0N 128.6E 220±22.1 4.0b
EIDC Error ellipse is semi−major=40.1km semi−minor=11.0km azimuth=83
EIDC XII 25 10 49 15.0 **0.4N** **127.7E** **0** **3.5b** **21-35**
¶97xii4912
EIDC Origin time error = 14.42Error ellipse is semi−major=261.1km semi−minor=217.2km azimuth=74
ISC XII 28 07 39 32±1.1 **2.47N**±.040 **128.33E**±.068 **172**±10 **4.5b** **66 4-138**
BJI XII 28 07 39 26.6 2.03N 128.92E 170 4.4b **¶97xii5419**
NEIC XII 28 07 39 32.1 2.48N 128.29E 170 4.6b
EIDC XII 28 07 39 33.9±.76 2.5N 128.5E 174±7.2 4.0b
EIDC Error ellipse is semi−major=26.7km semi−minor=9.3km azimuth=78
EIDC XII 31 17 18 54.1 **1.0N** **127.4E** **0** **3.8b** **22-35**
¶97xii5933
EIDC Origin time error = 14.11Error ellipse is semi−major=270.4km semi−minor=213.7km azimuth=80LO CONF Location

(268) Sulawesi (Celebes).

DJA VII 03 02 16 44.1 **1.8S** **120.3E** **100** 4.6D,4.5L **2-2**
¶97vii0340
EIDC VII 04 20 15 59.3 **4.7S** **118.9E** **0** **4.0b** **15-34**
¶97vii0615
DJA VII 09 00 37 57.2 **4.7S** **120.3E** **100** 4.4D,4.0L **1-2**
¶97vii1257
DJA VII 09 00 41 23.3 **4.9S** **120.2E** **33** 4.3D,3.3L **1-2**
¶97vii1258
DJA VII 09 00 47 58.5 **4.7S** **120.1E** **104** 3.8L,3.6D **1-1**
¶97vii1260
ISC VII 11 09 50 04±6.8 **3.8S**±.12 **121.5E**±.17 **32**±53 **4.0b** **15 1-77**
EIDC VII 11 09 50 01.9 3.8S 121.5E 0 4.0b **¶97vii1657**
NEIC VII 11 09 50 04.5 3.81S 121.50E 33 4.0b
NEIC Less reliable solution.
DJA VII 21 15 53 12.4 **1.9S** **120.3E** **33** 4.4D,4.4L **2-2**
¶97vii3260
EIDC VII 26 04 15 39.1 **3.6S** **119.1E** **0** **4.3b** **16-41**
¶97vii3914
DJA VII 29 06 26 31.5 **1.0S** **121.9E** **33** **4.7D,4.2L** **3-4**
¶97vii4391
DJA VIII 05 23 02 34.7 **3.9S** **119.4E** **2** **4.4D,**3.8L **0-1**
¶97viii0733
DJA VIII 11 23 13 41.8 **4.1S** **119.4E** **33** 4.1D **0-1**
¶97viii1643
DJA VIII 18 09 25 48.1 **1.9S** **119.4E** **151** 4.4L,4.0D **2-3**
¶97viii2655
EIDC VIII 19 19 50 27.4 **5.9S** **121.2E** **0** 3.6b,3.8L **4-66**
¶97viii2863
DJA VIII 21 23 15 14.2 **3.7S** **120.1E** **2** **4.2D** **0-1**
¶97viii3157
DJA VIII 22 09 52 38.7 **1.0S** **121.1E** **2** **4.5D,4.0L** **3-4**
¶97viii3207
DJA VIII 24 02 30 38.8 **3.9S** **119.0E** **33** 4.3D,3.1L **1-1**
¶97viii3474
DJA VIII 25 01 29 37.2 **3.4S** **119.9E** **59** **4.1D** **0-1**
¶97viii3618
DJA VIII 26 14 37 00.2 **4.5S** **119.7E** **2** **4.3D,**3.5L **0-1**
¶97viii3863
DJA IX 02 03 34 24.1 **1.9S** **120.2E** **33** **4.3D,4.1L** **¶97ix0214**
DJA IX 02 05 38 51.7 **3.6S** **119.8E** **201** 4.4D **¶97ix0225**
DJA IX 03 03 49 07.2 **3.0S** **119.4E** **17** 4.3D **¶97ix0374**
DJA IX 04 19 01 34.2 **1.9S** **120.8E** **200** **4.4D,4.1L** **¶97ix0623**
DJA IX 06 04 28 32.8 **2.5S** **120.9E** **33** **4.6D,3.6L** **¶97ix0857**
DJA IX 06 05 22 44.3 **1.8S** **121.2E** **200** **5.0L,4.5D** **¶97ix0862**
EIDC IX 06 05 23 46.4 5.5S 123.5E 0 3.5b,3.4L
EIDC LO CONF Location
DJA IX 07 15 35 35.5 **1.8S** **120.3E** **33** 4.1D,3.8L **¶97ix1094**
EIDC IX 08 02 30 37.7 **1.1S** **123.8E** **0** **3.5b** **¶97ix1157**
EIDC LO CONF Location
DJA IX 09 10 25 29.4 **2.2S** **121.3E** **33** 4.1D,4.0L **¶97ix1358**
DJA IX 09 15 45 49.7 **4.1S** **120.7E** **200** 4.3D,2.8L **¶97ix1401**
DJA IX 10 19 30 31.6 **1.8S** **119.4E** **33** 4.4D,4.0L **¶97ix1568**
DJA IX 10 20 19 10.7 **4.1S** **120.2E** **33** 4.2D,3.2L **¶97ix1573**
DJA IX 10 23 14 07.5 **6.0S** **120.4E** **300** 4.1D,3.8L **¶97ix1596**
DJA IX 11 11 20 53.0 **1.9S** **120.2E** **33** 4.3D,3.7L **¶97ix1668**
EIDC IX 13 18 08 15.1 **3.9S** **119.3E** **0** **3.5b** **¶97ix2008**
DJA IX 13 18 08 00.2 2.1S 121.9E 33 5.0L,4.6D
EIDC LO CONF Location
DJA IX 14 19 37 42.7 **2.6S** **119.6E** **33** 4.4D,4.0L **¶97ix2160**
ISC IX 18 03 04 39±4.6 **3.69S**±.081 **122.7E**±.10 **17**±36 **4.3b,**3.3S **32 2-159**
BJI IX 18 03 04 37.9 3.78S 122.43E 14 4.5b **¶97ix2603**
NEIC IX 18 03 04 38.4 3.72S 122.70E 10 4.4b
EIDC IX 18 03 04 38.9 3.8S 122.7E 0 4.3b,3.3S
DJA IX 18 10 25 53.3 **1.9S** **120.3E** **33** **4.5D,4.0L** **¶97ix2645**
DJA IX 20 03 59 40.4 **3.8S** **120.2E** **47** **4.2D,**3.3L **¶97ix2893**
DJA IX 20 04 24 57.0 **3.7S** **120.2E** **47** **4.1D** **¶97ix2898**
DJA IX 21 05 22 52.0 **1.3S** **119.0E** **100** **4.4D,**4.4L **¶97ix3044**
ISC IX 21 09 15 27±4.9 **1.9S**±.50 **121.0E**±.19 **33** **3.5b** **7 2-36**
EIDC IX 21 09 15 27.3 1.6S 122.1E 0 3.5b **¶97ix3073**
NEIC IX 21 09 15 28.1 2.01S 120.98E 33
NEIC Poor solution.
DJA IX 22 06 29 01.2 **3.3S** **122.7E** **100** **4.6D,4.2L** **¶97ix3231**
DJA IX 24 12 30 22.1 **3.0S** **119.5E** **33** 4.2D,3.0L **¶97ix3580**
DJA IX 27 07 46 50.7 **2.1S** **121.1E** **33** 4.4D,3.6L **¶97ix4291**
DJA IX 27 16 37 33.1 **2.5S** **119.7E** **33** 3.7D,3.1L **¶97ix4408**
ISC IX 28 01 38 28.8±.61 **3.80S**±.025 **119.69E**±.031 **38**±5.8 **5.5b,5.4s** **316 0-173**
MOS IX 28 01 38 28.6 3.7S 119.7E 33 6.0b,5.2s **¶97ix4508**
BJI IX 28 01 38 28.6 3.69S 119.87E 33 5.8b,5.5s
NEIC IX 28 01 38 28.6 3.78S 119.73E 33 5.6b,5.5s
KLM IX 28 01 38 29 3.7S 119.7E 33 5.2L
EIDC IX 28 01 38 31.3 3.7S 119.8E 38 5.1b,6.1L
HRVD IX 28 01 38 34.2±.1 3.92S±.02 119.77E±.01 35±1.1
NEIC Mw5.9(GS), Me5.6(GS). Casualties.
NEIC Radiated energy from the P−wave first−motion solution: 6.2±1.2×10^{12}Nm/16
NEIC Mw 5.9 (HRV). At least 18 people killed, over 300 injured and 650 houses and buildings destroyed in the Parepare-Pinrang area. Felt I=IV MM at Majene and III MM at Ujungpandang.
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S0°,δ35°,λ90°. NP2:ϕ_S180°,δ55°,λ90°. Principal axes: T Plg80°,Azm90°; P Plg10°,Azm270°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s32, scale 10^{17}Nm; M_{rr}4.82; $M_{\theta\theta}$3.17; $M_{\phi\phi}$−8.02; $M_{r\theta}$1.30; $M_{r\phi}$−0.27; $M_{\theta\phi}$0.82. Depth 16km; Principal axes: T 5.54,Plg61°,Azm359°; N 2.55,Plg29°, Azm175°; P −8.09,Plg2°,Azm266°. Best double couple: M_O6.8×10^{17}Nm; NP1:ϕ_S22°,δ50°, λ129°. NP2:ϕ_S150°,δ53°,λ53°.
KLM Mb5.6
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s55,c111; Mantle waves: s11,c16; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}6.05±.07; $M_{\theta\theta}$1.46±.09; $M_{\phi\phi}$−7.51±.11; $M_{r\theta}$1.18±.16; $M_{r\phi}$−1.50±.19; $M_{\theta\phi}$0.07±.09. Principal Axes: T 6.49,Plg76°,Azm24°; N 1.19,Plg13°,Azm177°; P −7.68,Plg6°,Azm269°. Best double couple: M_O7.1×10^{17}Nm, NP1:ϕ_S13°,δ40°,λ110°. NP2:ϕ_S167°,δ53°,λ74°.
DJA IX 28 05 26 15.9 **3.8S** **119.6E** **33** **4.2D** **¶97ix4552**
DJA IX 28 05 31 32.4 **3.9S** **119.6E** **25** **4.1D** **¶97ix4553**
DJA IX 28 06 00 01.0 **3.8S** **119.6E** **30** **4.3D** **¶97ix4559**
DJA IX 28 06 28 22.0 **3.9S** **119.6E** **33** 3.9D **¶97ix4563**
DJA IX 28 06 31 03.7 **3.8S** **119.6E** **33** **4.2D** **¶97ix4565**
DJA IX 28 07 03 01.4 **3.8S** **119.6E** **40** **4.4D** **¶97ix4570**
DJA IX 28 07 10 21.4 **3.8S** **119.6E** **2** **4.4D** **¶97ix4571**
DJA IX 28 07 25 41.1 **3.9S** **119.6E** **33** **4.3D** **¶97ix4575**
DJA IX 28 07 34 02.3 **3.9S** **119.6E** **27** **4.4D** **¶97ix4578**
DJA IX 28 07 39 52.0 **3.8S** **119.7E** **17** **4.4D** **¶97ix4579**
DJA IX 28 08 05 31.5 **3.9S** **119.6E** **39** **4.4D** **¶97ix4587**
DJA IX 28 08 17 39.8 **3.9S** **119.5E** **43** 4.0D **¶97ix4590**
DJA IX 28 08 18 20.0 **3.8S** **119.7E** **33** 4.4D **¶97ix4591**
DJA IX 28 09 05 39.6 **3.8S** **119.6E** **53** 4.4D **¶97ix4600**
ISC IX 28 10 28 06±1.3 **3.8S**±.11 **119.7E**±.15 **33** **4 0-1**
NEIC IX 28 10 28 05.6 3.80S 119.67E 33 **¶97ix4615**
DJA IX 28 10 28 06.3 3.9S 119.6E 33 4.4D
ISC Poorly determined
NEIC Poor solution.
DJA IX 28 17 04 29.3 **3.8S** **119.6E** **48** 5.0D **¶97ix4710**
ISC IX 28 17 42 05.6±.38 **3.88S**±.045 **119.67E**±.055 **28** **4.1b,3.4s** **34 1-159**
EIDC IX 28 17 42 03.7 3.8S 119.8E 0 4.1b,3.4s **¶97ix4718**
NEIC IX 28 17 42 05.7 3.87S 119.68E 28 4.4b
BJI IX 28 17 42 06.0 3.29S 120.21E 9 4.9b
DJA IX 28 17 42 06.5 3.9S 119.6E 29 5.4b,5.1D
DJA IX 28 17 55 37.2 **3.9S** **119.6E** **33** **4.1D** **¶97ix4721**
DJA IX 28 18 23 14.3 **3.9S** **119.6E** **33** **4.1D** **¶97ix4726**
DJA IX 28 18 24 36.2 **3.9S** **119.5E** **82** **4.2D,**4.0L **¶97ix4727**
DJA IX 28 22 41 32.6 **3.9S** **119.7E** **2** **4.4D** **¶97ix4775**
DJA IX 29 02 48 21.5 **3.9S** **119.6E** **45** **4.1D** **¶97ix4840**
DJA IX 29 03 42 07.0 **3.9S** **119.6E** **46** **4.2D** **¶97ix4857**
DJA IX 29 04 06 25.5 **3.8S** **119.6E** **46** **4.2D** **¶97ix4863**
DJA IX 29 04 42 19.2 **3.9S** **119.6E** **30** **4.1D** **¶97ix4868**
DJA IX 29 04 57 30.2 **3.9S** **119.6E** **22** **4.2D** **¶97ix4870**
DJA IX 29 08 24 04.1 **3.9S** **119.6E** **38** **4.2D** **¶97ix4910**
DJA IX 29 15 10 07.8 **3.9S** **119.5E** **57** **4.4D,**3.3L **¶97ix4971**
ISC IX 29 15 30 46.2±.93 **3.2S**±.12 **121.29E**±.089 **33** **3.8b,**3.3s **9 1-34**
EIDC IX 29 15 30 37.0 2.0S 121.8E 0 3.7b,3.3s **¶97ix4973**
NEIC IX 29 15 30 37.3 1.95S 121.46E 33 4.0b
NEIC Poor solution.
DJA IX 29 15 42 29.3 **3.9S** **119.6E** **57** **4.4D** **¶97ix4974**
DJA IX 29 22 56 29.6 **3.9S** **119.6E** **33** **4.3D** **¶97ix5047**
DJA IX 30 04 01 48.2 **3.9S** **119.6E** **33** 4.7D **¶97ix5118**
DJA IX 30 11 29 43.5 **3.9S** **119.6E** **45** **4.2D** **¶97ix5217**
ISC IX 30 14 42 16±1.3 **3.84S**±.094 **119.7E**±.13 **17** **4 0-1**
DJA IX 30 14 42 16.5 3.9S 119.6E 17 4.2D **¶97ix5251**
ISC Poorly determined
DJA X 01 01 26 04.7 **2.0S** **118.5E** **33** 4.4D,3.8L **¶97x0006**
DJA X 01 02 55 45.5 **3.7S** **119.6E** **69** **4.6D** **¶97x0013**
DJA X 01 08 50 07.1 **3.8S** **119.6E** **50** 4.8D **¶97x0057**
DJA X 01 12 57 52.6 **3.8S** **119.6E** **33** **4.3D** **¶97x0087**
DJA X 01 12 59 25.9 **3.8S** **119.6E** **33** **4.4D** **¶97x0088**
ISC X 01 18 23 50±1.3 **3.8S**±.11 **119.6E**±.15 **33** **4 0-1**
NEIC X 01 18 23 50.1 3.82S 119.63E 33 **¶97x0133**
ISC Poorly determined
NEIC Poor solution.
DJA X 01 18 51 00.1 **3.9S** **119.6E** **48** 4.1D **¶97x0138**
DJA X 02 01 15 51.4 **3.8S** **119.6E** **33** **4.3D** **¶97x0185**
DJA X 02 09 08 32.1 **3.9S** **119.6E** **33** **4.2D** **¶97x0248**
DJA X 02 14 14 46.0 **3.8S** **119.6E** **2** **4.5D** **¶97x0295**
DJA X 03 09 09 50.8 **3.8S** **119.5E** **63** **4.1D** **¶97x0435**
DJA X 03 11 45 14.8 **3.9S** **119.5E** **63** **4.2D** **¶97x0456**
DJA X 03 13 23 02.0 **3.9S** **119.6E** **33** **4.2D** **¶97x0470**
DJA X 03 22 50 48.2 **3.8S** **119.6E** **49** **4.3D** **¶97x0540**
DJA X 04 02 02 32.5 **3.9S** **119.6E** **49** **4.2D** **¶97x0559**
DJA X 04 08 49 56.0 **3.9S** **119.6E** **56** **4.1D** **¶97x0614**
DJA X 04 09 14 26.3 **3.9S** **119.6E** **47** **4.1D** **¶97x0617**
DJA X 04 17 55 37.5 **3.3S** **122.2E** **200** **4.5D,3.6L** **¶97x0697**
DJA X 04 22 53 29.7 **3.6S** **121.7E** **33** **4.4D,4.0L** **¶97x0753**
DJA X 05 03 36 38.5 **3.8S** **119.6E** **49** **4.1D** **¶97x0791**
DJA X 05 07 34 27.0 **3.8S** **119.6E** **2** **4.3D** **¶97x0823**
DJA X 05 16 16 54.8 **3.4S** **119.7E** **33** 4.3D **¶97x0887**
DJA X 06 19 56 50.5 **2.1S** **119.3E** **12** **5.2L,4.5D** **¶97x1112**
DJA X 06 23 16 16.1 **3.8S** **119.6E** **48** **4.1D** **¶97x1131**

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
DJA	**X**	**07 10 41 49.6**	**3.8S**	**119.6E**	**52**	**4.4D**		**¶97x1231**
DJA	**X**	**08 03 47 11.8**	**2.7S**	**120.3E**	**2**	**4.6D,4.6L**		**¶97x1351**
DJA	**X**	**08 10 02 27.8**	**3.9S**	**119.7E**	**33**	**4.4D**		**¶97x1386**
DJA	**X**	**08 11 31 01.6**	**1.7S**	**120.4E**	**33**	**4.5D,3.8L**		**¶97x1404**
ISC	**X**	**08 11 59 29**±1.3	**3.8S**±.12	**119.7E**±.14	**37**		**4**	**0-1**
DJA	X	08 11 59 28.9	3.8S	119.6E	37	4.3D		¶97x1411
ISC	Poorly determined							
DJA	**X**	**08 18 47 40.6**	**3.8S**	**119.6E**	**38**	4.5D		**¶97x1455**
DJA	**X**	**09 01 51 53.8**	**3.8S**	**119.6E**	**48**	**4.1D**		**¶97x1505**
DJA	**X**	**09 05 03 53.7**	**5.4S**	**119.6E**	**33**	4.3D,3.3L		**¶97x1528**
DJA	**X**	**09 22 36 35.3**	**3.9S**	**119.6E**	**48**	**4.4D**		**¶97x1652**
DJA	**X**	**10 00 09 41.7**	**5.1S**	**121.5E**	**33**	4.5D,4.2L		**¶97x1663**
DJA	**X**	**11 19 05 48.9**	**3.9S**	**119.6E**	**51**	**4.2D**		**¶97x1925**
DJA	**X**	**11 19 32 58.0**	**3.9S**	**119.6E**	**50**	**4.2D**		**¶97x1927**
DJA	**X**	**12 14 00 37.5**	**3.9S**	**120.4E**	**100**	4.3D,3.0L		**¶97x2053**
DJA	**X**	**16 09 06 46.9**	**5.3S**	**120.3E**	**100**	3.9D,3.6L		**¶97x2813**
DJA	**X**	**16 21 10 01.2**	**3.9S**	**119.6E**	**52**	**4.3D**		**¶97x2879**
ISC	**X**	**17 12 08 00.4**±.88	**3.88S**±.034	**119.66E**±.042	**30**±6.9	**4.7b,4.4s**	**96**	**1-159**
EIDC	X	17 12 07 57.1	3.8S	119.7E	0	4.7b,4.1s		¶97x2982
BJI	X	17 12 07 59.9	3.90S	119.60E	28	5.2b,4.9s		
NEIC	X	17 12 07 59.9	3.87S	119.64E	28	4.8b		
MOS	X	17 12 08 07.8	2.6S	119.5E	33	5.6b		
DJA	**X**	**17 16 53 29.1**	**3.9S**	**119.6E**	**35**	**4.4D**		**¶97x3023**
DJA	**X**	**17 18 04 28.0**	**3.9S**	**119.6E**	**47**	**4.4D**		**¶97x3035**
DJA	**X**	**18 15 16 10.1**	**3.9S**	**119.6E**	**33**	**4.3D**		**¶97x3184**
DJA	**X**	**18 18 49 18.4**	**4.0S**	**119.5E**	**2**	4.5D,4.0L		**¶97x3215**
ISC	**X**	**18 21 00 36**±1.4	**1.9S**±.17	**124.0E**±.10	**33**	**3.6b**	**8**	**4-32**
EIDC	X	18 21 00 26.1	0.1S	126.5E	0	3.6b,3.7s		¶97x3235
DJA	**X**	**19 01 36 28.5**	**3.9S**	**119.6E**	**33**	**4.4D**		**¶97x3270**
DJA	**X**	**20 18 59 55.6**	**1.9S**	**118.7E**	**33**	4.4D,3.6L		**¶97x3547**
DJA	**X**	**21 12 24 31.7**	**4.8S**	**120.3E**	**33**	**4.4D**,3.8L		**¶97x3655**
DJA	**X**	**23 11 09 17.8**	**2.4S**	**120.9E**	**100**	**4.4D,3.8L**		**¶97x3976**
DJA	**X**	**24 00 33 26.2**	**3.8S**	**119.6E**	**51**	**4.2D**		**¶97x4090**
DJA	**X**	**24 21 11 29.4**	**3.8S**	**119.6E**	**43**	**4.2D**		**¶97x4224**
DJA	**X**	**26 02 02 57.6**	**2.0S**	**120.2E**	**33**	4.3D,3.8L		**¶97x4403**
DJA	**X**	**27 02 02 23.2**	**5.0S**	**119.5E**	**100**	4.6D,4.4L		**¶97x4554**
DJA	**X**	**27 03 43 02.7**	**5.1S**	**119.6E**	**100**	4.5D,4.4L		**¶97x4562**
ISC	**X**	**29 20 26 44**±1.4	**3.8S**±.14	**119.6E**±.18	**56**		**4**	**0-1**
DJA	X	29 20 26 44.4	3.9S	119.5E	56	4.5D		**¶97x4947**
ISC	Poorly determined							
DJA	**X**	**30 01 24 09.0**	**3.8S**	**119.5E**	**38**	4.0D		**¶97x4971**
DJA	**X**	**30 11 04 27.9**	**2.7S**	**119.6E**	**9**	4.5D,4.3L		**¶97x5026**
DJA	**X**	**30 20 36 31.3**	**4.2S**	**119.7E**	**176**	4.3D		**¶97x5085**
ISC	**XI**	**01 18 33 00**±3.0	**4.6S**±.41	**120.0E**±.11	**33**	**4.1b**	**9**	**5-34**
EIDC	XI	01 18 32 32.8	3.2S	118.0E	0	4.0b		¶97xi0121
NEIC	XI	01 18 32 58.6	4.33S	119.99E	33	4.1b		
NEIC	Poor solution.							
DJA	**XI**	**02 03 20 25.4**±1.04	**3.9S**	**119.6E**	**30**±20.5	**4.2D**		**0-1**
DJA	Error ellipse is semi-major=12.7km semi-minor=7.4km azimuth=75							¶97xi0189
DJA	**XI**	**02 14 47 48.8**±.63	**4.5S**	**120.4E**	**100**	**4.4D**,3.8L		**1-2**
NEIC	XI	02 14 47 53.2	4.42S	120.13E	33			¶97xi0280
DJA	Error ellipse is semi-major=23.6km semi-minor=10.4km azimuth=107							
NEIC	Poor solution.							
NEIC	**XI**	**02 22 55 04.3**	**1.30S**	**122.01E**	**33**			**3-160**
EIDC	XI	02 22 54 57.6	0.1N	123.7E	0	4.0b		¶97xi0350
NEIC	Less reliable solution.							
DJA	**XI**	**03 08 21 34.7**±.31	**3.9S**	**119.6E**	**21**±1.0	**4.2D**		**1-1**
DJA	Error ellipse is semi-major=10.0km semi-minor=6.4km azimuth=66							¶97xi0435
DJA	**XI**	**04 06 02 48.2**±.82	**1.3S**	**120.9E**	**100**	**5.3L,4.4D**		**2-36**
EIDC	XI	04 06 02 52.9	1.1S	121.1E	0	3.5b		¶97xi0587
DJA	Error ellipse is semi-major=37.2km semi-minor=7.4km azimuth=82							
DJA	**XI**	**04 20 21 51.8**±4.97	**1.8S**	**121.3E**	**331**±45.7	4.0L,3.9D		**2-3**
DJA	Error ellipse is semi-major=86.2km semi-minor=14.8km azimuth=84							¶97xi0688
DJA	**XI**	**05 00 58 28.6**±.89	**2.4S**	**121.9E**	**33**	**4.6D,4.2L**		**2-3**
DJA	Error ellipse is semi-major=26.9km semi-minor=9.2km azimuth=99							¶97xi0715
DJA	**XI**	**05 23 21 04.3**±1.04	**3.9S**	**119.6E**	**53**±10.4	**4.2D**		**0-1**
DJA	Error ellipse is semi-major=12.9km semi-minor=8.7km azimuth=70							¶97xi0881
DJA	**XI**	**06 18 49 31.8**±1.60	**3.7S**	**119.8E**	**51**±18.1	4.2D		**0-1**
DJA	Error ellipse is semi-major=14.3km semi-minor=7.3km azimuth=15							¶97xi1012
EIDC	**XI**	**06 21 07 30.1**	**5.5S**	**122.5E**	**0**	3.8b,3.7L		**¶97xi1033**
DJA	**XI**	**09 11 24 40.4**±1.04	**3.9S**	**120.2E**	**50**±8.9	**4.0D**,4.0L		**0-1**
								¶97xi1442
DJA	Error ellipse is semi-major=15.7km semi-minor=10.5km azimuth=102							
DJA	**XI**	**11 14 48 41.5**±1.14	**5.4S**	**118.1E**	**33**	4.5D,4.2L		**4-5**
								¶97xi1809
DJA	Error ellipse is semi-major=35.6km semi-minor=26.0km azimuth=137							
DJA	**XI**	**13 11 57 08.3**±1.13	**3.0S**	**119.1E**	**33**	4.4D,3.3L		**1-1**
								¶97xi2129
DJA	Error ellipse is semi-major=28.3km semi-minor=21.2km azimuth=152							
DJA	**XI**	**18 01 11 42.4**±.27	**3.8S**	**119.7E**	**14**	**4.4D**		**0-1**
DJA	Error ellipse is semi-major=9.9km semi-minor=6.9km azimuth=47							¶97xi2889
DJA	**XI**	**22 06 43 55.7**±1.81	**2.0S**	**120.2E**	**301**±21.8	**4.5D,4.2L**		**2-2**
DJA	Error ellipse is semi-major=46.5km semi-minor=40.7km azimuth=38							¶97xi3822
DJA	**XI**	**25 02 21 00.7**±1.62	**2.2S**	**118.9E**	**2**	**4.8L,4.7D**		**1-3**
								¶97xi4428
DJA	Error ellipse is semi-major=54.2km semi-minor=35.1km azimuth=102							
DJA	**XII**	**03 03 36 11.2**±1.73	**2.0S**	**119.4E**	**33**	**4.3D**,4.0L		**1-2**
								¶97xii0356
DJA	Error ellipse is semi-major=55.0km semi-minor=30.8km azimuth=135							
ISC	**XII**	**03 11 38 26**±6.4	**2.6S**±.13	**121.1E**±.65	**33**		**4**	**1-2**
DJA	XII	03 11 38 21.9±1.10	2.3S	121.3E	33	4.3D,4.2L		¶97xii0412
NEIC	XII	03 11 38 26.0	2.60S	121.11E	33			
ISC	Poorly determined							
DJA	Error ellipse is semi-major=41.6km semi-minor=8.2km azimuth=95							
NEIC	Poor solution.							
DJA	**XII**	**10 10 43 29.3**±1.11	**4.5S**	**122.3E**	**33**	3.8L		**2-3**
								¶97xii2332
DJA	Error ellipse is semi-major=212.3km semi-minor=25.3km azimuth=20							
DJA	**XII**	**10 15 49 56.8**±.29	**3.9S**	**120.1E**	**33**	**4.3D**,3.7L		**0-1**
DJA	Error ellipse is semi-major=15.9km semi-minor=8.2km azimuth=138							¶97xii2383
DJA	**XII**	**23 04 34 36.0**±1.19	**5.2S**	**118.1E**	**2**	4.6D,4.6L		**4-5**
DJA	Error ellipse is semi-major=35.0km semi-minor=14.0km azimuth=2							¶97xii4543
ISC	**XII**	**31 17 03 53**±2.7	**1.2S**±.10	**123.9E**±.12	**73**±27	**4.0b**	**25**	**6-95**
EIDC	XII	31 17 03 46.6±.86	1.1S	124.1E	0	4.0b,2.4s		¶97xii5930
NEIC	XII	31 17 03 49.4	1.10S	124.14E	33	4.2b		
BJI	XII	31 17 03 49.8	1.32S	124.03E	41	4.6b		
EIDC	Error ellipse is semi-major=49.3km semi-minor=16.6km azimuth=68							
NEIC	Less reliable solution.							

(269) Molucca Sea.

ISC	**VII**	**01 23 33 08**±5.5	**0.1S**±.11	**126.3E**±.23	**42**±54	**4.3b**	**20**	**18-154**
BJI	VII	01 23 33 05.9	0.08N	126.72E	26	4.4b		¶97vii0156
NEIC	VII	01 23 33 06.1	0.04S	126.10E	33	4.5b		
EIDC	VII	01 23 33 12.4	0.1S	126.2E	75	3.9b		
NEIC	Less reliable solution.							
ISC	**VII**	**01 23 43 10**±1.3	**0.1S**±.22	**125.8E**±.75	**33**	**4.2b**	**10**	**21-154**
NEIC	VII	01 23 43 10.2	0.12S	125.77E	33	4.2b		¶97vii0157
EIDC	VII	01 23 43 16.8	0.0N	126.6E	69	4.0b		
NEIC	Poor solution.							
ISC	**VIII**	**05 08 39 21**±4.2	**0.2S**±.14	**125.4E**±.21	**34**±46	**4.1b**	**13**	**6-74**
EIDC	VIII	05 08 39 16.8	0.3S	124.8E	0	4.1b		¶97viii0641
NEIC	VIII	05 08 39 20.9	0.15S	125.37E	33	4.5b		
DJA	VIII	05 08 39 23.0	0.3S	125.2E	2	5.2D,5.0L		
ISC	DJA magnitude calculations may be overestimated							
ISC	**VIII**	**12 18 29 33**±1.1	**0.15S**±.039	**124.84E**±.059	**77**±12	**4.6b**	**62**	**6-159**
MOS	VIII	12 18 29 27.4	0.1S	124.7E	33	5.1b		¶97viii1790
NEIC	VIII	12 18 29 27.6	0.11S	124.64E	33	4.7b		
BJI	VIII	12 18 29 27.9	0.09S	124.92E	32	5.0b,4.5s		
EIDC	VIII	12 18 29 30.8	0.2S	124.7E	42	4.3b,3.5s		
DJA	VIII	12 18 29 39.7	2.1S	125.5E	147	5.6L,5.0D		
EIDC	**VIII**	**17 21 01 21.0**	**1.1S**	**124.7E**	**0**	**3.8b**		**21-61**
								¶97viii2586
ISC	**VIII**	**18 00 49 08.3**±.99	**0.1S**±.22	**125.9E**±.42	**33**	**3.6b**	**6**	**2-89**
EIDC	VIII	18 00 49 06.8	0.0N	126.9E	0	3.4b		¶97viii2605
NEIC	VIII	18 00 49 08.1	0.12S	125.97E	33	3.3b		
NEIC	Poor solution.							
ISC	**VIII**	**19 18 04 57**±3.6	**0.2S**±.11	**124.3E**±.20	**62**±37	**4.1b**	**19**	**5-90**
EIDC	VIII	19 18 04 59.8	0.2S	124.7E	74	3.8b		¶97viii2847
NEIC	VIII	19 18 05 01.0	0.19S	124.48E	100	4.2b		
DJA	VIII	19 18 05 06.7	0.7N	120.5E	281	4.7L		
NEIC	Less reliable solution.							
ISC	**VIII**	**24 15 11 33.9**±.53	**0.06S**±.091	**126.1E**±.31	**33**	**4.1b**,4.0s	**17**	**18-159**
EIDC	VIII	24 15 11 30.5	0.1S	125.8E	0	4.2b,3.6s		¶97viii3554
BJI	VIII	24 15 11 34.4	0.10S	126.20E	33	4.7b		
NEIC	VIII	24 15 11 34.4	0.08S	126.20E	33	4.2b,4.3s		
NEIC	Poor solution.							
ISC	**VIII**	**29 14 45 54**±1.9	**0.19S**±.075	**124.5E**±.11	**56**±19	**4.2b**	**26**	**5-94**
EIDC	VIII	29 14 45 47.7	0.3S	124.0E	0	4.2b		¶97viii4329
DJA	VIII	29 14 45 51.9	0.0N	124.4E	200	5.1L,4.8D		
BJI	VIII	29 14 45 52.0	0.20S	124.60E	33	5.0b,4.7s		
NEIC	VIII	29 14 45 52.0	0.15S	124.56E	33	4.1b		
NEIC	Less reliable solution.							
ISC	**VIII**	**30 13 02 51**±1.0	**0.87S**±.033	**124.04E**±.048	**46**±10	**4.8b**,4.7s	**107**	**5-162**
BJI	VIII	30 13 02 50.5	0.72S	124.31E	39	4.8b,4.7s		¶97viii4484
NEIC	VIII	30 13 02 50.9	0.91S	123.91E	41	5.0b		
EIDC	VIII	30 13 02 53.0	0.8S	124.0E	41	4.5b		
HRVD	VIII	30 13 02 53.3±.2	1.13S±.02	124.40E±.01	35±1.4			
DJA	VIII	30 13 02 53.8	1.1S	124.1E	69	5.8L,5.1D		
ISC	DJA magnitude calculations may be overestimated							
NEIC	Mw5.1(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s12,c13; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.20±.41; $M_{\theta\theta}$3.59±.32; $M_{\phi\phi}$−5.79±.60; $M_{r\theta}$−2.31±.97; $M_{r\phi}$−0.37±1.34; $M_{\theta\phi}$1.34±.44. Principal Axes: T 5.46,Plg36°,Azm172°; N 0.52,Plg54°,Azm353°; P −5.97,Plg0°,Azm262°. Best double couple: $M_0$5.7×10^{16}Nm, NP1: ϕ_S313°,δ65°,λ27°. NP2:ϕ_S211°,δ65°,λ152°.							
EIDC	**IX**	**02 08 37 09.1**	**1.6S**	**125.9E**	**0**	**3.5b**		**¶97ix0244**
ISC	**IX**	**20 09 06 47**±2.8	**0.30S**±.066	**125.9E**±.16	**46**±28	**4.4b**	**28**	**4-153**
EIDC	IX	20 09 06 42.9	0.2S	126.3E	0	4.4b		¶97ix2918
BJI	IX	20 09 06 45.4	0.20S	126.00E	33	4.5b		
NEIC	IX	20 09 06 45.4	0.22S	125.96E	33	4.6b		
ISC	**IX**	**20 09 09 40.8**±.66	**0.27S**±.090	**126.3E**±.33	**33**	**4.2b**,3.8s	**13**	**18-89**
EIDC	IX	20 09 09 38.7	0.0S	127.3E	0	4.2b,3.8s		¶97ix2919
NEIC	IX	20 09 09 40.8	0.26S	126.30E	33	4.3b		
NEIC	Poor solution.							
ISC	**IX**	**20 17 56 59**±1.1	**0.3S**±.23	**126.0E**±.43	**33**	**3.7b**	**7**	**21-61**
EIDC	IX	20 17 56 56.3	0.4S	126.0E	0	3.7b		¶97ix2980
EIDC	**IX**	**21 20 15 35.2**	**0.1S**	**126.5E**	**0**	**3.6b**		**¶97ix3154**
EIDC	**X**	**13 08 07 44.4**	**0.1S**	**126.8E**	**0**	**3.8b**		**¶97x2185**
ISC	**X**	**18 02 40 06.4**±.63	**0.93S**±.025	**124.08E**±.029	**56**±6.2	**5.3b,5.0s**	**264**	**2-162**
EIDC	X	18 02 40 00.2	0.9S	124.0E	0	5.2b,4.9s		¶97x3088
BJI	X	18 02 40 02.2	1.27S	124.37E	46	5.3b,5.0s		
NEIC	X	18 02 40 04.6	0.90S	124.07E	36	5.5b,5.0s		
KLM	X	18 02 40 05	0.9S	124.1E	36	5.1L		
MOS	X	18 02 40 05.8	0.8S	124.1E	49	5.7b,4.8s		
HRVD	X	18 02 40 06.2±.5	1.19S±.04	124.61E±.03	35±3.8			
NEIC	Mw5.5(HRV).							
KLM	Mb5.5							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c58; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.18±.06; $M_{\theta\theta}$1.73±.08; $M_{\phi\phi}$−1.90±.09; $M_{r\theta}$−0.38±.17; $M_{r\phi}$−0.01±.12; $M_{\theta\phi}$1.40±.07. Principal Axes: T 2.27,Plg10°,Azm161°; N 0.12, Plg80°,Azm327°; P −2.39,Plg3°,Azm71°. Best double couple: $M_0$2.3×10^{17}Nm, NP1:ϕ_S206°, δ81°,λ175°. NP2:ϕ_S297°,δ85°,λ9°.							
ISC	**X**	**18 19 14 07**±1.4	**1.8S**±.17	**124.04E**±.094	**33**	**3.7b**	**9**	**4-32**
EIDC	X	18 19 14 05.0	2.1S	123.7E	0	3.5b		¶97x3219
NEIC	X	18 19 14 06.8	1.80S	124.03E	33	3.8b		
NEIC	Less reliable solution.							
EIDC	**X**	**25 08 44 55.6**	**0.6S**	**126.2E**	**0**	**3.4b**		**¶97x4299**
EIDC	**X**	**27 14 38 12.4**	**0.4S**	**124.6E**	**0**	**4.0b**,4.6L		**¶97x4620**
ISC	**XI**	**01 15 20 47**±1.6	**0.0S**±.15	**126.66E**±.074	**76**±15	**4.4b**	**16**	**5-90**
EIDC	XI	01 15 20 32.4	0.0S	124.6E	0	4.5b		¶97xi0097
DJA	XI	01 15 20 46.1±.19	0.1N	126.6E	100	5.8L,4.6D		
NEIC	XI	01 15 20 46.6	0.03N	126.64E	79	4.5b		
DJA	Error ellipse is semi-major=7.2km semi-minor=4.4km azimuth=156							
NEIC	Less reliable solution.							
ISC	**XI**	**03 06 04 10**±1.2	**0.9S**±.22	**125.5E**±.58	**33**	**4.1b**	**10**	**14-75**
EIDC	XI	03 06 04 07.1	1.0S	125.5E	0	4.1b		¶97xi0418
NEIC	XI	03 06 04 09.7	0.95S	125.48E	33	4.2b		
NEIC	Poor solution.							
ISC	**XI**	**25 03 36 53**±1.3	**0.3S**±.11	**124.0E**±.32	**33**	**4.0b**	**6**	**2-74**
EIDC	XI	25 03 36 51.7	0.0N	125.2E	0	4.0b		¶97xi4440
NEIC	XI	25 03 36 52.8	0.34S	124.05E	33	4.3b		
NEIC	Poor solution.							
ISC	**XII**	**09 23 48 41.5**±.71	**0.15S**±.028	**124.78E**±.035	**100**±7.4	**5.1b**	**157**	**2-163**
BJI	XII	09 23 48 36.6	0.51S	124.95E	90	5.4b		¶97xii2260
MOS	XII	09 23 48 36.9	0.0S	124.8E	54	5.7b		
NEIC	XII	09 23 48 37.8	0.08S	124.79E	63	5.2b		
KLM	XII	09 23 48 38	0.1S	124.8E	63	4.6L		
EIDC	XII	09 23 48 38.5±1.50	0.1S	124.7E	55±12.3	4.9b,4.0s		
DJA	XII	09 23 48 41.7±.19	0.1N	124.9E	130±3.1	5.1D,5.0b		

KLM MB5.2
EIDC Error ellipse is semi−major=23.6km semi−minor=9.8km azimuth=70
DJA Error ellipse is semi−major=9.6km semi−minor=3.6km azimuth=165
EIDC XII 10 19 36 28.0±5.76 **0.2S** **125.1E** **42**±16.1 **3.3b** **14-35** ¶97xii2415
EIDC Error ellipse is semi−major=312.7km semi−minor=23.6km azimuth=53
ISC XII 16 20 12 12±2.3 **0.39S**±.071 **125.6E**±.11 **37**±23 **4.7b,**4.6s **39 4-153**
EIDC XII 16 20 12 09.2±.64 0.5S 125.6E 0 4.7b,4.4L ¶97xii3495
BJI XII 16 20 12 10.7 0.70S 125.64E 45 4.9b,4.9s
NEIC XII 16 20 12 12.2 0.44S 125.60E 33 4.7b
EIDC Error ellipse is semi−major=40.5km semi−minor=9.4km azimuth=71
NEIC Less reliable solution.
ISC XII 23 08 32 20±1.3 **0.93S**±.080 **125.5E**±.13 **69**±14 **4.2b** **21 2-79**
NEIC XII 23 08 32 20.0 0.92S 125.62E 68 3.9b ¶97xii4569
EIDC XII 23 08 32 26.7±7.56 1.0S 125.7E 118±76.3 3.8b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=36.9km semi−minor=16.3km azimuth=73
EIDC XII 28 14 15 26.4 **1.8S** **126.9E** **0** 3.7b,4.3L **19-33** ¶97xii5458
EIDC Origin time error = 12.87Error ellipse is semi−major=251.6km semi−minor=171.5km azimuth=90LO CONF Location
ISC XII 31 10 28 24±1.0 **0.17S**±.055 **124.16E**±.076 **109**±11 **4.4b** **51 2-137**
EIDC XII 31 10 28 11.6±.73 0.3S 123.4E 0 4.2b,3.3s ¶97xii5876
BJI XII 31 10 28 14.7 0.30S 123.50E 33 4.9b,4.4s
NEIC XII 31 10 28 14.7 0.27S 123.45E 33 4.6b
EIDC Error ellipse is semi−major=42.6km semi−minor=14.1km azimuth=69
NEIC Less reliable solution.

(270) Ceram Sea.

ISC VII 03 17 52 18±1.4 **2.7S**±.20 **127.3E**±.24 **33** **3.8b** **7 19-88**
EIDC VII 03 17 52 14.6 2.6S 127.2E 0 3.8b,3.6L ¶97vii0434
ISC VII 06 23 33 03±3.9 **2.8S**±.13 **126.4E**±.18 **35**±39 **4.2b** **13 7-91**
EIDC VII 06 23 32 59.6 2.6S 126.7E 0 3.9b,4.5L ¶97vii0951
NEIC VII 06 23 33 02.4 2.76S 126.45E 33 4.4b
NEIC Less reliable solution.
ISC VII 18 09 25 21±5.2 **3.0S**±.21 **128.0E**±.53 **117**±43 **4.0b** **9 4-31**
EIDC VII 18 09 25 07.8 2.6S 128.3E 0 4.1b,4.4L ¶97vii2720
NEIC VII 18 09 25 15.7 3.27S 127.84E 33 4.0b
NEIC Poor solution.
ISC VII 18 10 55 25±7.1 **2.5S**±.66 **127.6E**±.93 **33** **3.9b** **6 19-32**
EIDC VII 18 10 55 24.1 2.6S 128.0E 0 3.9b,4.1L ¶97vii2727
ISC VII 18 12 55 22±2.0 **2.39S**±.061 **128.5E**±.14 **79**±22 **4.3b** **19 3-63**
EIDC VII 18 12 55 13.6 2.4S 128.1E 0 4.1b,3.8s ¶97vii2742
BJI VII 18 12 55 20.6 2.45S 128.58E 78 4.5b
NEIC VII 18 12 55 21.0 2.37S 128.39E 73 4.0b
NEIC Less reliable solution.
EIDC VII 19 02 49 49.3 **2.0S** **128.5E** **0** 3.6b,4.0L **19-90** ¶97vii2822
ISC VII 27 05 29 59±1.1 **2.51S**±.043 **127.96E**±.046 **51**±11 **4.6b** **61 4-151**
EIDC VII 27 05 29 53.8 2.5S 128.2E 0 4.4b,4.9L ¶97vii4065
BJI VII 27 05 29 58.6 2.41S 128.10E 53 4.6b
NEIC VII 27 05 29 59.2 2.55S 127.93E 50 4.9b
EIDC VII 31 16 10 17.6 **2.0S** **127.3E** **0** 3.7b,3.8L **19-33** ¶97vii4758
ISC VIII 15 18 53 45±2.7 **2.2S**±.19 **127.9E**±.32 **73**±30 **4.3b** **11 5-35**
EIDC VIII 15 18 53 41.7 2.7S 127.1E 0 4.5b,4.5L ¶97viii2252
NEIC VIII 15 18 53 43.8 2.74S 127.07E 33 4.1b
NEIC Poor solution.
ISC VIII 17 00 55 18±1.9 **2.2S**±.16 **128.5E**±.44 **33** **3.7b** **5 1-90**
EIDC VIII 17 00 55 13.2 2.1S 128.0E 0 3.7b,3.6L ¶97viii2447
EIDC VIII 28 09 39 53.6 **2.7S** **128.9E** **0** 4.1b,3.5s **18-151** ¶97viii4112
EIDC VIII 31 04 48 02.4 **2.6S** **127.0E** **0** 3.8b,4.2L **19-125** ¶97viii4584
EIDC IX 06 08 26 06.3 **2.3S** **128.7E** **0** 3.7b,3.7L ¶97ix0886
EIDC LO CONF Location
EIDC IX 12 22 06 04.8 **2.3S** **124.5E** **0** **3.2b** ¶97ix1879
ISC IX 17 21 50 04±2.0 **2.96S**±.063 **128.0E**±.12 **35**±19 **4.4b** **29 4-155**
NEIC IX 17 21 50 03.9 2.96S 128.03E 33 4.5b ¶97ix2561
EIDC IX 17 21 50 06.1 3.2S 127.6E 28 4.1b,4.4L
NEIC Less reliable solution.
ISC IX 20 03 59 20±3.5 **2.3S**±.35 **128.2E**±.24 **33** **4.5b** **13 1-151**
NEIC IX 20 03 59 20.6 2.34S 128.17E 33 4.3b ¶97ix2892
EIDC IX 20 03 59 22.6 2.7S 128.4E 0 4.6b,4.7L
NEIC Poor solution.
EIDC IX 21 03 13 17.7 **2.7S** **127.6E** **0** 3.5b,3.6L ¶97ix3036
EIDC LO CONF Location
EIDC IX 24 05 59 01.2 **2.1S** **127.2E** **0** 4.1b,4.4L ¶97ix3533
EIDC IX 25 01 44 19.6 **2.9S** **124.2E** **0** 3.5b,4.1L ¶97ix3662
EIDC LO CONF Location
EIDC X 02 16 23 23.5 **3.0S** **125.2E** **0** **3.3b,**3.4L ¶97x0311
EIDC X 07 15 10 20.1 **2.7S** **128.9E** **0** 3.7b,4.0L ¶97x1272
ISC X 10 05 51 47.3±.76 **2.4S**±.13 **128.4E**±.27 **33** **4.0b** **9 18-40**
EIDC X 10 05 51 44.7 2.4S 128.5E 0 3.9b,4.2L ¶97x1700
NEIC X 10 05 51 47.7 2.45S 128.35E 33 4.0b
NEIC Less reliable solution.
EIDC X 12 02 09 36.0 **2.3S** **127.8E** **0** 3.8b,3.7L ¶97x1972
EIDC X 13 11 03 07.5 **2.2S** **128.0E** **0** 3.7b,3.9L ¶97x2206
EIDC X 13 12 25 26.6 **2.3S** **124.6E** **0** 3.2b,3.6L ¶97x2216
ISC X 20 08 15 53.2±.57 **2.90S**±.073 **126.2E**±.11 **33** **4.2b** **18 5-77**
EIDC X 20 08 15 50.0 3.0S 126.1E 0 4.1b,4.4L ¶97x3466
BJI X 20 08 15 53.5 2.90S 126.20E 33 4.4b
NEIC X 20 08 15 53.5 2.91S 126.20E 33 4.3b
NEIC Less reliable solution.
EIDC X 23 14 15 31.2 **2.5S** **126.9E** **0** 3.5b,3.1s ¶97x4013
EIDC XI 04 12 52 13.0 **2.6S** **127.8E** **0** 3.7b,3.8L ¶97xi0638
ISC XI 07 03 24 42±10 **2.8S**±.97 **125.5E**±.97 **33** **4.1b** **6 19-33**
EIDC XI 07 03 24 37.8 2.0S 127.1E 0 4.0b,4.5L ¶97xi1068
EIDC XI 26 14 43 26.5 **2.1S** **127.3E** **0** **3.8b,**3.9L ¶97xi4704
ISC XII 03 21 42 01±1.1 **2.02S**±.036 **124.90E**±.056 **54**±11 **4.7b,4.4s** **78 9-158**
BJI XII 03 21 41 57.9 2.04S 124.81E 33 4.8b,4.6s ¶97xii0507
KLM XII 03 21 41 59 2.1S 124.8E 33 4.2L
NEIC XII 03 21 41 59.0 2.09S 124.84E 33 4.9b
EIDC XII 03 21 41 59.4±.58 2.2S 124.6E 22±3.6 4.6b,4.4s
HRVD XII 03 21 42 02.9±.5 2.24S±.09 125.56E±.09 32±7.4
KLM MB4.9
NEIC Mw5.3(HRV).
EIDC Error ellipse is semi−major=23.6km semi−minor=10.0km azimuth=76
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c30; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}0.43±.72; $M_{\theta\theta}$3.10±.63; $M_{\phi\phi}$−3.53±1.10; $M_{r\theta}$5.92±1.54; $M_{r\phi}$3.87±1.42; $M_{\theta\phi}$6.57±.70. Principal Axes: T 11.6,Plg32°,Azm328°; N −4.0, Plg58°,Azm153°; P −7.6,Plg2°,Azm60°. Best double couple: $M_0$9.6×10^{16}Nm, NP1:ϕ_S109°, δ66°,λ22°. NP2:ϕ_S9°,δ70°,λ154°.
ISC XII 04 21 36 52.0±.77 **2.9S**±.12 **126.8E**±.27 **33** **4.1b** **12 15-67**
EIDC XII 04 21 36 50.8±1.07 3.0S 126.7E 0 3.9b,3.7L ¶97xii0695
BJI XII 04 21 36 52.1 2.90S 126.80E 33 4.7b
NEIC XII 04 21 36 52.1 2.93S 126.82E 33
EIDC Error ellipse is semi−major=72.9km semi−minor=17.5km azimuth=66
NEIC Poor solution.
EIDC XII 24 15 11 57.6 **2.8S** **127.7E** **0** 3.6b,3.5L **18-32** ¶97xii4779
EIDC Origin time error = 10.36Error ellipse is semi−major=225.4km semi−minor=139.9km azimuth=85

(271) Buru.

EIDC IX 17 22 22 11.4 **3.5S** **126.3E** **0** 3.5b,3.4L ¶97ix2566
EIDC IX 20 12 03 35.4 **3.8S** **127.0E** **0** 3.5b,3.6L ¶97ix2940
EIDC X 04 14 43 39.1 **3.3S** **126.3E** **0** 3.2b,3.5L ¶97x0663
EIDC X 25 14 18 28.6 **3.6S** **126.2E** **0** 3.9b,4.2L ¶97x4335
ISC XI 09 14 19 43±1.7 **3.3S**±.12 **126.6E**±.33 **33** **3.8b** **8 15-41**
EIDC XI 09 14 19 44.7 3.1S 127.9E 0 3.9b,3.8L ¶97xi1456

(272) Seram.

EIDC VII 10 02 13 42.8 **3.3S** **128.2E** **0** 3.9b,3.8L **18-31** ¶97vii1430
EIDC VII 26 02 48 55.7 **3.5S** **128.9E** **0** 3.2b,3.6L **17-91** ¶97vii3901
ISC VIII 03 23 02 19±2.1 **3.61S**±.088 **127.5E**±.12 **52**±22 **4.2b,**3.3s **22 8-89**
EIDC VIII 03 23 02 14.3 3.6S 127.4E 0 4.1b,3.3s ¶97viii0426
NEIC VIII 03 23 02 17.0 3.56S 127.43E 33 4.7b
BJI VIII 03 23 02 17.1 3.60S 127.42E 33 4.5b
DJA VIII 03 23 02 17.4 8.9S 113.2E 28 4.8L
NEIC Less reliable solution.
ISC VIII 04 16 48 40±3.6 **3.1S**±.14 **130.1E**±.77 **33** 3.8b **8 3-31**
NEIC VIII 04 16 48 38.7 3.02S 129.84E 33 4.0b ¶97viii0522
EIDC VIII 04 16 48 49.9 3.9S 131.3E 0 4.3L,4.0b
NEIC Poor solution.
ISC VIII 07 10 26 08.0±.80 **3.15S**±.091 **130.9E**±.24 **33** **3.8b** **9 16-153**
EIDC VIII 07 10 26 05.5 3.1S 131.0E 0 4.0b,4.4L ¶97viii0926
NEIC VIII 07 10 26 07.9 3.15S 130.88E 33 3.7b
NEIC Less reliable solution.
EIDC VIII 07 16 29 32.7 **3.8S** **127.9E** **176** **3.4b,**4.1L **17-36** ¶97viii0973
ISC VIII 11 20 09 50±4.2 **3.4S**±.40 **128.5E**±.23 **33** 3.9b **9 10-31**
EIDC VIII 11 20 09 41.7 2.8S 128.5E 0 4.2b,4.5L ¶97viii1621
NEIC VIII 11 20 09 50.4 3.43S 128.50E 33 4.1b
NEIC Poor solution.
EIDC VIII 20 02 46 13.9 **2.1S** **129.5E** **0** 3.4b,4.0L **18-89** ¶97viii2898
ISC VIII 20 15 42 18±3.6 **3.53S**±.055 **127.4E**±.11 **24**±27 **4.3b** **33 6-155**
EIDC VIII 20 15 42 16.4 3.5S 127.5E 0 4.3b,4.1L ¶97viii2983
NEIC VIII 20 15 42 19.2 3.50S 127.49E 33 4.5b
NEIC Less reliable solution.
ISC VIII 20 20 03 23±1.0 **3.0S**±.15 **130.6E**±.29 **33** **3.7b** **8 17-64**
NEIC VIII 20 20 03 22.6 3.04S 130.57E 33 3.7b ¶97viii3008
EIDC VIII 20 20 03 29.5 3.1S 130.6E 83 3.6b
NEIC Poor solution.
ISC VIII 23 08 07 46±1.6 **2.95S**±.063 **129.8E**±.11 **57**±17 **4.2b,3.6s** **22 3-154**
EIDC VIII 23 08 07 41.0 2.9S 129.6E 0 4.3b,3.5s ¶97viii3364
NEIC VIII 23 08 07 45.6 2.96S 129.72E 50 4.5b
NEIC Less reliable solution.
ISC VIII 25 13 17 23±8.9 **3.7S**±.77 **129.2E**±.81 **33** 4.1b **6 17-30**
EIDC VIII 25 13 17 09.6 2.4S 130.2E 0 3.9b,3.9L ¶97viii3694
ISC VIII 26 16 02 12.2±.73 **2.92S**±.074 **129.8E**±.20 **33** **3.9b,**3.4s **12 3-150**
EIDC VIII 26 16 02 09.8 3.0S 129.3E 0 3.8b,3.4s ¶97viii3874
NEIC VIII 26 16 02 12.5 2.95S 129.84E 33 4.2b
NEIC Less reliable solution.
EIDC VIII 31 01 02 51.7 **3.7S** **127.1E** **0** **3.6b,**3.7L **18-92** ¶97viii4564
EIDC VIII 31 03 21 36.7 **3.9S** **128.5E** **0** **3.6b,**3.7L **17-91** ¶97viii4578
EIDC IX 01 10 54 50.4 **2.9S** **129.0E** **0** 3.4b,3.6L ¶97ix0095
ISC IX 09 09 34 31±1.4 **3.4S**±.22 **127.2E**±.44 **33** **4.0b** **9 15-97**
EIDC IX 09 09 34 27.1 3.2S 127.4E 0 4.2b,4.5L ¶97ix1352
NEIC IX 09 09 34 30.4 3.39S 127.19E 33 4.1b
NEIC Poor solution.
EIDC IX 14 16 55 48.3 **3.5S** **127.1E** **0** 3.7b,4.2L ¶97ix2149
ISC IX 15 21 30 27±2.4 **3.43S**±.055 **127.4E**±.16 **90**±24 **4.3b** **24 5-97**
BJI IX 15 21 30 25.5 3.40S 127.30E 79 4.8b ¶97ix2286
NEIC IX 15 21 30 25.5 3.43S 127.33E 79 4.5b
EIDC IX 15 21 30 27.6 3.4S 127.6E 80 4.0b,3.1s
ISC IX 16 20 36 36±1.2 **3.28S**±.062 **129.4E**±.10 **42**±13 **4.0b,**3.5s **21 1-150**
EIDC IX 16 20 36 32.1 3.2S 129.4E 0 4.0b,3.9L ¶97ix2426
BJI IX 16 20 36 34.9 3.30S 129.40E 33 4.3b
NEIC IX 16 20 36 34.9 3.28S 129.42E 33 4.3b
NEIC Less reliable solution.
EIDC IX 17 22 00 36.9 **3.2S** **128.3E** **0** 3.7b,3.4L ¶97ix2563
ISC IX 21 09 37 22.9±.48 **3.34S**±.053 **130.5E**±.12 **21** **4.1b,3.3s** **24 3-150**
NEIC IX 21 09 37 22.7 3.34S 130.52E 21 4.6b ¶97ix3076
EIDC IX 21 09 37 25.2 3.3S 130.6E 20 4.0b,3.3s
NEIC Less reliable solution.
ISC IX 22 06 38 12±1.0 **4.0S**±.21 **129.0E**±.28 **111**±36 3.8b **8 1-30**
NEIC IX 22 06 38 11.8 3.98S 129.02E 109 4.2b ¶97ix3234
EIDC IX 22 06 38 18.3 4.4S 129.1E 112 3.7b
NEIC Poor solution.
EIDC IX 23 11 21 05.5 **3.1S** **127.5E** **0** **3.9b,**3.8L ¶97ix3411
ISC IX 25 21 48 37±1.5 **3.3S**±.24 **129.4E**±.80 **33** 4.0b **6 17-64**
EIDC IX 25 21 48 34.3 3.0S 130.9E 0 3.7b,3.3L ¶97ix3795
EIDC IX 29 19 06 38.3 **3.5S** **128.5E** **0** 3.7b,3.5L ¶97ix5007
ISC X 01 16 32 58.1±.52 **3.03S**±.062 **129.42E**±.091 **33** **4.2b** **21 3-82**
NEIC X 01 16 32 57.7 3.02S 129.36E 33 4.3b ¶97x0120
EIDC X 01 16 33 00.5 3.1S 129.5E 40 4.0b,4.4L
ISC X 08 11 25 58±6.6 **3.50S**±.079 **130.9E**±.22 **1**±43 **3.9b** **12 3-90**
NEIC X 08 11 26 02.6 3.50S 130.97E 33 4.0b ¶97x1403
EIDC X 08 11 26 08.5 3.5S 131.0E 72 3.5b,3.7L
NEIC Less reliable solution.
EIDC X 20 12 40 24.7 **3.5S** **127.9E** **0** 3.6b,3.8L ¶97x3498

Agency		Origin Time	φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s	°	°	km			°
EIDC	**X**	**22 07 53 06.6**	**3.5S**	**128.2E**	**0**	3.4b,3.3L		¶97x3773
EIDC	**X**	**23 13 28 05.1**	**3.1S**	**129.7E**	**0**	3.8b,3.8L		¶97x4004
EIDC	**XI**	**02 09 00 21.6**	**3.1S**	**129.8E**	**0**	3.2b,3.7L		¶97xi0224
ISC	**XI**	**24 21 30 08**±2.4	**3.45S**±.089	**128.9E**±.25	**91**±24	**3.7b**	**9**	**3-91**
EIDC	XI	24 21 29 58.6	3.1S	129.5E	0	3.9b,3.7L		¶97xi4390
NEIC	XI	24 21 30 08.6	3.43S	128.90E	100	4.0b		
ISC	**XII**	**11 02 03 21**±1.5	**3.12S**±.086	**128.1E**±.18	**57**±12	**4.1b**	**13**	**1-91**
NEIC	XII	11 02 03 18.8	3.07S	127.97E	33	3.9b		¶97xii2468
EIDC	XII	11 02 03 23.8±4.58	3.1S	128.2E	60±47.0	3.7b,4.4L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=112.0km semi−minor=15.2km azimuth=80							
ISC	**XII**	**16 08 10 23**±2.2	**3.13S**±.077	**129.1E**±.23	**105**±21	**3.7b**	**12**	**3-90**
EIDC	XII	16 08 10 12.7±1.08	2.9S	129.4E	0	4.1b,4.2L		¶97xii3413
NEIC	XII	16 08 10 14.4	3.17S	128.40E	33	4.0b		
EIDC	Error ellipse is semi−major=64.7km semi−minor=14.1km azimuth=77							
NEIC	Less reliable solution.							
ISC	**XII**	**20 19 12 54.7**±.26	**3.91S**±.039	**130.82E**±.061	**35**±3.6*	**4.6b,4.6s**	**85**	**3-149**
BJI	XII	20 19 12 54.5	4.07S	131.12E	49	4.9b,4.8s		¶97xii4157
NEIC	XII	20 19 12 54.8	3.97S	130.70E	33	4.7b		
EIDC	XII	20 19 12 57.3±4.92	3.9S	130.8E	33±37.2	4.3b,4.8L		
EIDC	Error ellipse is semi−major=28.8km semi−minor=10.0km azimuth=75							
ISC	**XII**	**27 05 19 18.4**±.48	**2.92S**±.078	**129.4E**±.13	**33**	**4.3b,**3.6s	**33**	**10-90**
NEIC	XII	27 05 19 18.8	2.97S	129.40E	33	4.3b		¶97xii5255
EIDC	XII	27 05 19 21.9±3.54	3.0S	129.4E	43±34.3	4.0b,4.3L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=42.5km semi−minor=11.6km azimuth=72							
ISC	**XII**	**27 06 18 28**±5.4	**2.5S**±.47	**129.7E**±.35	**33**	4.0b	**8**	**10-31**
EIDC	XII	27 06 18 21.9	2.1S	129.9E	0	4.0b,3.7L		¶97xii5263
EIDC	Origin time error = 11.46Error ellipse is semi−major=175.6km semi−minor=106.3km azimuth=138							
ISC	**XII**	**30 23 20 35**±2.7	**3.03S**±.077	**129.0E**±.31	**97**±30	**3.8b**	**10**	**3-77**
NEIC	XII	30 23 20 35.2	3.02S	129.04E	103	3.5b		¶97xii5797
EIDC	XII	30 23 20 56.3	3.7S	128.5E	301±273.1	3.4b,4.2L		
NEIC	Less reliable solution.							
EIDC	Origin time error = 24.04Error ellipse is semi−major=158.2km semi−minor=80.7km azimuth=84							

SEISMIC REGION 24.
SUNDA ARC.

(273) South-west of Sumatera.

DJA	**VII**	**01 02 19 21.0**	**6.8S**	**103.9E**	**100**	4.6L,**3.8**D		**2-2**
								¶97vii0012
ISC	**VII**	**05 10 13 47.8**±.43	**6.98S**±.059	**102.81E**±.055	**38**±2.4*	**4.7b,4.5s**	**68**	**3-155**
DJA	VII	05 10 13 42.2	7.5S	102.4E	100	5.7L,5.0D		¶97vii0713
EIDC	VII	05 10 13 43.9	7.0S	102.8E	0	4.5b,4.0s		
BJI	VII	05 10 13 46.6	7.05S	102.81E	33	5.1b,4.8s		
NEIC	VII	05 10 13 47.6	6.96S	102.80E	33	4.7b		
ISC	DJA magnitude values may be overestimated							
EIDC	**VII**	**06 23 37 55.3**	**1.8S**	**97.7E**	**0**	**3.2b**		**20-146**
								¶97vii0952
ISC	**VII**	**12 12 55 33**±2.8	**1.7S**±.10	**96.7E**±.40	**33**	**3.9b**	**9**	**4-46**
EIDC	VII	12 12 55 36.7	1.3S	97.9E	0	3.9b,3.8L		¶97vii1819
ISC	**VII**	**27 16 47 49**±1.5	**6.29S**±.063	**103.79E**±.090	**57**±12	**4.7b,4.5s**	**85**	**2-156**
DJA	VII	27 16 47 41.0	6.8S	103.1E	50	5.6b,5.5L		¶97vii4138
MOS	VII	27 16 47 49.1	6.4S	103.8E	60	5.3b		
BJI	VII	27 16 47 49.9	6.31S	103.85E	66	4.9b,4.7s		
EIDC	VII	27 16 47 49.9	6.2S	103.7E	44	4.4b,3.7s		
NEIC	VII	27 16 47 50.4	6.22S	103.88E	65	4.6b		
NEIC	Less reliable solution.							
ISC	**VII**	**27 22 35 58**±1.2	**6.05S**±.050	**103.87E**±.063	**53**±10	**4.9b,4.8s**	**126**	**1-156**
EIDC	VII	27 22 35 52.6	6.1S	103.7E	0	4.9b,4.8s		¶97vii4172
DJA	VII	27 22 35 53.6	6.4S	103.3E	76	6.1b,5.8L		
BJI	VII	27 22 35 57.7	6.17S	103.74E	57	5.2b,4.9s		
NEIC	VII	27 22 35 58.3	6.04S	103.85E	53	4.9b		
MOS	VII	27 22 35 59.3	5.6S	104.0E	42	5.6b,4.7s		
HRVD	VII	27 22 36 03.3±.6	6.51S±.05	103.87E±.08	15			
NEIC	Mw5.1(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.23±.59; $M_{\theta\theta}$−6.50±.45; $M_{\phi\phi}$3.27±.96; $M_{r\theta}$2.58±.74; $M_{r\phi}$−0.46±.54; $M_{\theta\phi}$2.49±.47. Principal Axes: T 4.01,Plg42°,Azm296°; N 3.71, Plg45°,Azm90°; P −7.72,Plg14°,Azm193°. Best double couple: $M_0$5.9×10^{16}Nm, NP1: ϕ_S325°,δ50°,λ156°. NP2:ϕ_S71°,δ72°,λ42°.							
DJA	**VII**	**29 01 04 24.6**	**6.4S**	**103.6E**	**33**	**4.5L,4.3**D		**2-4**
								¶97vii4356
ISC	**VIII**	**02 11 46 04**±1.1	**5.9S**±.15	**100.6E**±.13	**34**±.9*	**4.0b**	**16**	**5-147**
EIDC	VIII	02 11 46 05.6	6.0S	100.5E	32	3.8b		¶97viii0209
ISC	**VIII**	**10 03 29 39**±2.6	**0.8S**±.11	**97.0E**±.36	**2**	3.4b	**8**	**3-145**
EIDC	VIII	10 03 29 40.8	0.9S	97.0E	0	3.5b,4.5L		¶97viii1346
DJA	VIII	10 03 29 41.1	0.8S	97.0E	2	5.5L,4.4D		
ISC	DJA magnitude calculations may be overestimated							
ISC	**VIII**	**14 05 17 19.4**±.99	**7.4S**±.12	**103.5E**±.12	**33**	**4.3b,**3.4s	**21**	**2-155**
NEIC	VIII	14 05 17 21.7	7.05S	104.01E	33			¶97viii2010
EIDC	VIII	14 05 17 22.7	6.6S	104.7E	0	4.3b,3.3s		
DJA	VIII	14 05 17 24.7	4.2S	105.0E	200	5.1L,5.0b		
ISC	DJA magnitude calculations may be overestimated							
NEIC	Poor solution.							
DJA	**VIII**	**16 13 37 45.3**	**6.3S**	**103.8E**	**33**	**4.2L,3.9**D		**2-4**
								¶97viii2373
ISC	**VIII**	**26 23 51 37**±1.7	**6.5S**±.21	**103.5E**±.14	**33**	**3.9b**	**9**	**2-146**
EIDC	VIII	26 23 51 32.7	6.9S	103.1E	0	3.9b		¶97viii3919
DJA	**IX**	**27 01 57 33.7**	**6.4S**	**102.9E**	**2**	**5.1**D,**3.9L**		¶97ix4219
ISC	**X**	**04 22 04 11**±2.8	**6.4S**±.34	**103.5E**±.20	**33**	**3.7b**	**7**	**2-62**
EIDC	X	04 22 04 12.0	6.1S	102.9E	0	3.7b		¶97x0745
EIDC	LO CONF Location							
ISC	**X**	**10 07 05 07**±1.1	**0.4S**±.10	**96.4E**±.17	**33**	**4.1b,**3.4s	**11**	**3-84**
NEIC	X	10 07 05 07.5	0.32S	96.46E	33	4.3b		¶97x1711
EIDC	X	10 07 05 07.6	0.4S	96.4E	24	4.0b,4.4L		
NEIC	Less reliable solution.							
ISC	**X**	**21 15 08 24**±1.9	**6.3S**±.15	**103.5E**±.18	**33**	**3.4b**	**7**	**2-44**
EIDC	X	21 15 08 09.3	7.9S	100.2E	0	3.4b		¶97x3669
DJA	**X**	**26 01 03 14.6**	**1.0S**	**97.3E**	**15**	4.4D,4.0L		¶97x4395
DJA	**XI**	**06 03 40 34.5**±1.30	**4.2S**	**100.6E**	**160**	**5.3L,4.2**D		**6-7**
DJA	Error ellipse is semi−major=72.4km semi−minor=4.9km azimuth=50							¶97xi0917
ISC	**XI**	**10 00 20 26**±1.3	**1.11S**±.091	**97.5E**±.17	**33**	**3.8b**	**15**	**3-145**
DJA	XI	10 00 20 26.1±.68	0.6S	97.6E	240	4.7D,4.7L		¶97xi1529
NEIC	XI	10 00 20 26.4	1.10S	97.34E	33			
EIDC	XI	10 00 20 27.3	1.3S	97.1E	33	3.8b,4.0L		
DJA	Error ellipse is semi−major=24.8km semi−minor=5.4km azimuth=74							
NEIC	Poor solution.							
ISC	**XI**	**23 01 05 09.3**±.50	**2.06S**±.056	**98.93E**±.078	**24**	**4.6b,4.5s**	**57**	**4-146**
BJI	XI	23 01 05 08.3	2.23S	98.71E	27	4.9b,4.7s		¶97xi3994
NEIC	XI	23 01 05 09.2	2.03S	98.91E	24	4.6b,4.4s		
EIDC	XI	23 01 05 10.8	2.1S	98.7E	24	4.2b		
ISC	**XII**	**11 18 47 09.8**±.25	**6.20S**±.045	**101.03E**±.040	**33**	**4.9b,4.6s**	**136**	**8-155**
BJI	XII	11 18 47 09.7	6.20S	101.00E	33	5.0b,4.8s		¶97xii2623
NEIC	XII	11 18 47 09.7	6.20S	101.01E	33	5.0b,4.6s		
HRVD	XII	11 18 47 10.9±.7	6.28S±.13	100.66E±.09	21±7.7			
EIDC	XII	11 18 47 22.4±.92	6.1S	101.1E	130±7.4	4.4b		
NEIC	Mw5.1(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.87±.42; $M_{\theta\theta}$1.22±.38; $M_{\phi\phi}$1.64±.46; $M_{r\theta}$0.42±1.30; $M_{r\phi}$−0.49±1.21; $M_{\theta\phi}$−4.22±.62. Principal Axes: T 5.70,Plg4°,Azm46°; N −2.79,Plg0°,Azm136°; P −2.91,Plg86°,Azm226°. Best double couple: $M_0$4.3×10^{16}Nm, NP1: ϕ_S136°,δ41°,λ−90°. NP2:ϕ_S316°,δ49°,λ−90°.							
EIDC	Error ellipse is semi−major=23.0km semi−minor=13.2km azimuth=64							
ISC	**XII**	**28 09 50 23**±1.6	**1.03S**±.092	**97.4E**±.24	**33**	4.3b	**10**	**3-145**
EIDC	XII	28 09 50 19.8±2.97	1.2S	97.2E	0	4.3b		¶97xii5437
DJA	XII	28 09 50 23.3±1.04	2.8N	102.1E	33	4.3L,4.2D		
NEIC	XII	28 09 50 23.3	1.01S	97.40E	33			
EIDC	Error ellipse is semi−major=116.0km semi−minor=20.4km azimuth=63							
DJA	Error ellipse is semi−major=41.5km semi−minor=20.7km azimuth=173							
NEIC	M_L4.3(DJA), Less reliable solution.							

(274) Southern Sumatera.

ISC	**VII**	**02 11 03 28**±2.9	**1.1S**±.15	**100.2E**±.19	**172**±26	**3.8b**	**13**	**4-144**
NEIC	VII	02 11 03 20.8	1.13S	100.16E	100	3.9b		¶97vii0228
EIDC	VII	02 11 03 21.4	1.2S	100.1E	95	3.8b,4.1L		
NEIC	Less reliable solution.							
ISC	**VII**	**13 07 25 09**±1.3	**3.2S**±.29	**102.5E**±.30	**113**±13	**4.2b**	**14**	**4-47**
EIDC	VII	13 07 24 46.5	1.3S	102.2E	0	4.2b		¶97vii1942
DJA	VII	13 07 25 08.0	2.9S	102.8E	160	5.2L,4.5D		
ISC	DJA magnitude values may be overestimated							
DJA	**VII**	**16 02 02 07.1**	**1.2S**	**101.0E**	**296**	5.3L,4.0D		**4-5**
ISC	DJA magnitude values may be overestimated							¶97vii2379
DJA	**VII**	**20 01 44 46.1**	**4.9S**	**106.4E**	**33**	4.2L,4.0D		**1-2**
								¶97vii2985
DJA	**VII**	**26 15 15 16.9**	**0.6S**	**99.3E**	**80**	**4.7L,**4.4D		**2-5**
								¶97vii3977
DJA	**VII**	**27 11 22 16.3**	**4.2S**	**105.7E**	**33**	4.1L,4.1D		**1-1**
								¶97vii4099
DJA	**VII**	**29 03 37 52.1**	**5.0S**	**106.6E**	**100**	3.8L,3.7D		**2-2**
								¶97vii4376
ISC	**VII**	**29 04 46 48.6**±.76	**5.8S**±.12	**103.3E**±.11	**33**	**4.1b**	**23**	**2-145**
EIDC	VII	29 04 46 45.9	6.1S	103.3E	0	4.1b		¶97vii4384
DJA	VII	29 04 46 48.3	5.9S	103.2E	100	5.1L,4.7b		
NEIC	VII	29 04 46 48.8	5.78S	103.38E	33	4.2b		
BJI	VII	29 04 46 49.1	5.73S	103.64E	32	4.4b		
ISC	DJA magnitude values may be overestimated							
NEIC	Less reliable solution.							
ISC	**VIII**	**11 12 07 10**±1.8	**5.2S**±.27	**103.9E**±.27	**33**	**3.5b**	**9**	**1-44**
EIDC	VIII	11 12 07 06.2	5.3S	103.8E	0	3.5b		¶97viii1556
ISC	**VIII**	**11 22 22 39**±1.4	**5.5S**±.10	**103.9E**±.11	**62**±12	**4.4b**	**33**	**1-145**
BJI	VIII	11 22 22 34.3	5.82S	103.66E	34	4.6b		¶97viii1637
NEIC	VIII	11 22 22 35.6	5.53S	103.93E	33	4.5b		
EIDC	VIII	11 22 22 35.9	5.6S	103.8E	22	4.2b,3.5s		
NEIC	Less reliable solution.							
ISC	**VIII**	**13 02 36 57**±1.9	**4.5S**±.23	**103.0E**±.26	**102**±13	**3.8b**	**15**	**2-146**
EIDC	VIII	13 02 36 56.0	4.6S	102.7E	88	3.7b		¶97viii1842
NEIC	VIII	13 02 36 56.3	4.59S	102.94E	100	3.7b		
DJA	VIII	13 02 36 59.1	4.7S	103.1E	2	5.4b,5.1D		
ISC	DJA magnitude calculations may be overestimated							
NEIC	Less reliable solution.							
EIDC	**VIII**	**14 11 39 47.8**	**0.6S**	**99.1E**	**19**	**3.4b**		**2-46**
								¶97viii2051
ISC	**VIII**	**15 17 42 25**±2.6	**4.4S**±.37	**104.2E**±.70	**100**	**3.6b**	**8**	**1-44**
EIDC	VIII	15 17 42 14.5	4.5S	104.0E	0	3.7b		¶97viii2244
ISC	**VIII**	**15 22 30 56**±3.8	**5.2S**±.29	**104.6E**±.59	**118**		**4**	**0-3**
DJA	VIII	15 22 30 57.1	5.2S	104.6E	118	4.1L,3.8D		¶97viii2280
ISC	Poorly determined							
ISC	**VIII**	**16 14 24 54**±2.4	**6.0S**±.13	**104.2E**±.21	**72**±17	**4.0b**	**20**	**1-145**
EIDC	VIII	16 14 24 46.0	6.1S	104.0E	0	4.1b		¶97viii2383
NEIC	VIII	16 14 24 48.4	6.17S	103.90E	31	4.3b		
NEIC	Less reliable solution.							
ISC	**VIII**	**25 21 24 06**±1.9	**1.97S**±.039	**99.98E**±.052	**19**±14	**5.1b,5.1s**	**211**	**4-158**
EIDC	VIII	25 21 24 04.0	2.1S	99.8E	0	5.0b		¶97viii3744
DJA	VIII	25 21 24 05.8	2.4S	99.4E	80	5.8L,5.2D		
KLM	VIII	25 21 24 08	1.9S	99.9E	33	4.5L		
NEIC	VIII	25 21 24 08.1	1.97S	99.91E	33	5.1b,4.8s		
MOS	VIII	25 21 24 08.4	1.9S	100.0E	33	5.7b,5.0s		
BJI	VIII	25 21 24 08.4	1.95S	99.90E	35	5.3b,5.3s		
HRVD	VIII	25 21 24 13.0±.3	2.26S±.03	99.90E±.04	32			
KLM	Mb5.1							
NEIC	Mw5.5(HRV).							
NEIC	Felt at Padang and Padangpanjang.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c50; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}1.04±.04; $M_{\theta\theta}$−0.95±.04; $M_{\phi\phi}$−0.09±.06; $M_{r\theta}$1.08±.12; $M_{r\phi}$−0.82±.08; $M_{\theta\phi}$0.59±.05. Principal Axes: T 1.69,Plg64°,Azm47°; N 0.19, Plg7°,Azm303°; P −1.87,Plg25°,Azm210°. Best double couple: $M_0$1.8×10^{17}Nm, NP1: ϕ_S286°,δ21°,λ71°. NP2:ϕ_S125°,δ70°,λ97°.							
ISC	**VIII**	**26 12 26 24**±1.7	**1.9S**±.25	**100.0E**±.33	**33**	**4.1b,**3.1s	**8**	**20-145**
NEIC	VIII	26 12 26 23.8	1.91S	99.96E	33			¶97viii3844
EIDC	VIII	26 12 26 26.4	2.0S	100.1E	34	3.8b,3.1s		
NEIC	Poor solution.							
DJA	**VIII**	**29 05 19 56.5**	**3.3S**	**102.5E**	**300**	4.5D,**4.5L**		**3-8**
								¶97viii4239
ISC	**VIII**	**31 21 56 40**±2.9	**3.2S**±.39	**104.0E**±.62	**250**	**3.5b**	**5**	**22-143**
EIDC	VIII	31 21 56 38.7	3.3S	103.8E	228	3.1b		¶97viii4716
ISC	Poorly determined							
ISC	**IX**	**06 08 10 10**±1.2	**0.48S**±.090	**99.0E**±.17	**33**	**4.0b**	**14**	**2-85**
EIDC	IX	06 08 10 16.8	0.6S	100.3E	0	4.1b		¶97ix0884
EIDC	**IX**	**08 17 25 59.8**	**4.8S**	**103.0E**	**0**	**3.7b**		¶97ix1252
DJA	**IX**	**08 22 26 36.5**	**0.1S**	**101.1E**	**15**	4.8L,4.3D		¶97ix1288
DJA	**IX**	**09 17 16 19.0**	**0.0S**	**100.1E**	**33**	4.6L,4.5D		¶97ix1415
DJA	**IX**	**09 18 25 17.5**	**0.3S**	**99.1E**	**80**	**4.7L,**4.5D		¶97ix1424

DJA	**IX**	**10 20 27 15.9**	**4.9S**	**106.1E**	**100**	4.2L,3.7D		**¶97ix1574**
ISC	**IX**	**12 05 51 08**±2.9	**5.0S**±.42	**102.6E**±.36	**93**±23	**3.6b**	**12**	**3-145**
DJA	IX	12 05 51 05.1	5.2S	102.5E	200	5.4L,4.2D		**¶97ix1777**
EIDC	IX	12 05 51 31.8	3.9N	114.5E	0	3.6b		
DJA	**IX**	**13 03 54 48.2**	**3.8S**	**106.2E**	**33**	4.2D,4.1L		**¶97ix1914**
ISC	**IX**	**13 06 45 58.9**±.76	**4.46S**±.045	**102.75E**±.051	**62**±6.8	**5.0b**	**168**	**1-158**
DJA	IX	13 06 45 51.3	5.3S	101.8E	93	5.7L,5.4b		**¶97ix1939**
MOS	IX	13 06 45 58.5	4.3S	102.9E	60	5.5b		
BJI	IX	13 06 46 01.8	4.92S	102.74E	128	5.1b		
NEIC	IX	13 06 46 02.9	4.45S	102.84E	97	5.0b		
KLM	IX	13 06 46 03	4.4S	102.8E	97	4.4L		
EIDC	IX	13 06 46 04.3	4.5S	102.8E	96	4.6b,4.3s		
HRVD	IX	13 06 46 07.4±.7	4.45S	102.84E	97			
NEIC		Mw5.2(HRV)						
NEIC		Felt I=III MM at Bengkulu and Manna.						
KLM		Mb5.0						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c23; Half duration: 1$0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.61±.47; $M_{\theta\theta}$−3.47±.55; $M_{\phi\phi}$0.86±.82; $M_{r\theta}$5.38±.57; $M_{r\phi}$0.77±.78; $M_{\theta\phi}$2.91±.71. Principal Axes: T 6.59,Plg51°,Azm325°; N 0.60, Plg27°,Azm93°; P −7.19,Plg27°,Azm197°. Best double couple: $M_0$6.9×10^{16}Nm, NP1: ϕ_S332°,δ30°,λ153°. NP2:ϕ_S86°,δ77°,λ62°.						
ISC	**IX**	**15 06 27 36**±1.1	**4.62S**±.078	**102.6E**±.10	**46**±10	**4.6b,3.7s**	**51**	**2-157**
KLM	IX	15 06 27 37	4.6S	102.6E	54	3.8L		**¶97ix2204**
NEIC	IX	15 06 27 37.2	4.61S	102.65E	54	4.6b		
BJI	IX	15 06 27 37.5	4.44S	102.64E	47	4.8b		
EIDC	IX	15 06 27 39.1	4.6S	102.6E	55	4.3b,3.6s		
KLM	Mb4.6							
NEIC		Felt I=III MM at Kepahiang and Manna.						
ISC	**IX**	**16 05 07 45**±1.1	**5.03S**±.061	**102.53E**±.070	**42**±9.0	**4.7b,4.2s**	**80**	**1-151**
DJA	IX	16 05 07 37.6	5.8S	101.7E	80	5.5L,5.3b		**¶97ix2335**
BJI	IX	16 05 07 39.5	5.56S	102.72E	38	5.0b,5.0s		
NEIC	IX	16 05 07 44.2	4.96S	102.51E	38	4.7b,4.4s		
EIDC	IX	16 05 07 46.7	5.0S	102.6E	40	4.5b,4.0s		
NEIC		Felt I=II MM at Bengkulu.						
ISC	**IX**	**29 23 36 09**±3.6	**0.2S**±.21	**98.3E**±.33	**61**±23	**3.8b**	**13**	**2-144**
KLM	IX	29 23 36 04	0.4S	98.0E	33	2.3L		**¶97ix5057**
NEIC	IX	29 23 36 04.3	0.44S	98.07E	33	3.5b		
DJA	IX	29 23 36 09.4	0.2S	98.3E	33	5.1L,4.4D		
EIDC	IX	29 23 36 12.4	0.1S	98.7E	59	3.6b,4.4L		
KLM	Mb3.5							
NEIC		Less reliable solution.						
DJA	**X**	**02 12 11 01.0**	**4.3S**	**105.4E**	**218**	4.0L,3.9D		**¶97x0278**
ISC	**X**	**03 16 22 53**±4.3	**5.1S**±.29	**103.1E**±.43	**62**±25	**4.4b**	**15**	**2-65**
NEIC	X	03 16 22 50.9	5.23S	102.99E	52	4.6b		**¶97x0489**
EIDC	X	03 16 22 54.1	5.1S	103.1E	51	4.0b		
DJA	X	03 16 22 57.7	5.2S	103.4E	33	5.0L,4.5D		
NEIC		Less reliable solution.						
DJA	**X**	**05 04 11 35.4**	**4.5S**	**106.5E**	**33**	4.5L,4.1D		**¶97x0793**
ISC	**X**	**11 19 55 17**±3.6	**1.0S**±.49	**99.7E**±.80	**33**	**3.4b**	**6**	**3-40**
EIDC	X	11 19 55 17.4	0.8S	100.4E	0	3.5b,3.6L		**¶97x1933**
ISC	**X**	**18 00 24 42**±9.8	**2.4S**±.30	**99.1E**±.47	**5**±52	**4.0b**,3.7s	**13**	**4-146**
EIDC	X	18 00 24 46.1	2.3S	99.5E	0	3.9b,3.7s		**¶97x3075**
DJA	X	18 00 24 46.5	2.4S	99.3E	87	4.9L,4.7D		
NEIC	X	18 00 24 48.9	2.10S	99.57E	33			
NEIC		Less reliable solution.						
EIDC	**X**	**18 05 17 17.7**	**3.1S**	**101.8E**	**0**	**3.4b**		**¶97x3102**
ISC	**X**	**19 06 18 48**±1.4	**5.6S**±.16	**102.7E**±.15	**33**	**4.0b**	**9**	**2-146**
EIDC	X	19 06 18 45.5	5.6S	102.6E	0	4.1b		**¶97x3304**
NEIC	X	19 06 18 48.6	5.61S	102.74E	33			
NEIC		Less reliable solution.						
DJA	**X**	**20 15 30 43.7**	**4.0S**	**106.0E**	**100**	4.2L,3.8D		**¶97x3521**
EIDC	X	20 15 30 29.9	6.9S	100.6E	0	3.2b		
ISC	**X**	**25 19 06 30.4**±.80	**2.5S**±.13	**102.4E**±.15	**182**±9.2	**3.8b**	**20**	**3-145**
DJA	X	25 19 06 19.3	1.1S	104.2E	320	4.9L,4.8D		**¶97x4359**
NEIC	X	25 19 06 31.6	2.44S	102.35E	200	3.9b		
EIDC	X	25 19 06 33.2	2.5S	102.4E	194	3.6b		
NEIC		Less reliable solution.						
EIDC	**X**	**28 04 50 10.1**	**2.6S**	**102.2E**	**0**	**3.6b**		**¶97x4710**
DJA	**X**	**29 07 37 16.8**	**4.3S**	**106.3E**	**33**	4.8L,3.8D		**¶97x4877**
DJA	**X**	**29 08 32 29.9**	**4.3S**	**106.4E**	**33**	4.5L,4.4D		**¶97x4880**
DJA	**X**	**30 17 33 46.2**	**4.0S**	**105.8E**	**33**	4.5L,4.4D		**¶97x5072**
DJA	**XI**	**01 10 00 13.6**±.81	**0.3S**	**98.6E**	**156**±13.2	**4.9L**,4.5D		**2-3**
DJA		Error ellipse is semi−major=21.0km semi−minor=8.7km azimuth=52						**¶97xi0056**
ISC	**XI**	**03 17 14 49.9**±.95	**5.9S**±.13	**103.6E**±.11	**33**	**4.0b**	**15**	**2-67**
NEIC	XI	03 17 14 49.9	5.88S	103.59E	33			**¶97xi0498**
EIDC	XI	03 17 14 51.1	5.8S	103.7E	26	3.8b		
DJA	XI	03 17 14 53.9±.61	6.1S	103.6E	27±5.8	4.7D,4.5L		
NEIC		Less reliable solution.						
DJA		Error ellipse is semi−major=19.3km semi−minor=5.8km azimuth=40						
ISC	**XI**	**05 14 29 54.9**±.56	**4.6S**±.10	**104.79E**±.086	**172**±6.5	**4.2b**	**33**	**0-146**
NEIC	XI	05 14 29 54.5	4.58S	104.76E	169	4.3b		**¶97xi0820**
EIDC	XI	05 14 29 57.2	4.6S	104.9E	176	3.9b		
ISC	**XI**	**14 01 58 28**±1.4	**2.1S**±.13	**100.6E**±.16	**63**±12	**4.2b**	**20**	**4-144**
DJA	XI	14 01 58 24.5±.40	2.2S	100.3E	240	5.1L,4.4D		**¶97xi2220**
NEIC	XI	14 01 58 28.5	2.16S	100.48E	72	4.3b		
KLM	XI	14 01 58 29	2.1S	100.4E	72	3.4L		
EIDC	XI	14 01 58 30.9	2.2S	100.6E	75	3.7b		
DJA		Error ellipse is semi−major=29.0km semi−minor=3.6km azimuth=50						
NEIC		Less reliable solution.						
KLM	Mb4.3							
ISC	**XI**	**15 14 56 33**±1.1	**4.36S**±.073	**102.39E**±.078	**64**±9.6	**4.3b**	**48**	**3-147**
EIDC	XI	15 14 56 26.1	4.4S	102.4E	0	4.2b		**¶97xi2493**
BJI	XI	15 14 56 32.9	4.30S	102.40E	66	4.7b		
NEIC	XI	15 14 56 32.9	4.35S	102.43E	66	4.5b		
ISC	**XI**	**16 08 18 15.9**±.72	**4.92S**±.033	**103.20E**±.037	**56**±6.6	**5.4b,4.7s**	**241**	**2-157**
BJI	XI	16 08 18 15.7	4.95S	103.09E	60	5.5b,4.8s		**¶97xi2614**
KLM	XI	16 08 18 16	4.9S	103.1E	58	5.1L		
NEIC	XI	16 08 18 16.3	4.96S	103.19E	58	5.5b		
MOS	XI	16 08 18 16.6	4.8S	103.2E	57	5.9b,4.7s		
EIDC	XI	16 08 18 17.7	5.0S	103.2E	55	5.0b		
HRVD	XI	16 08 18 20.6±.6	5.31S±.06	102.89E±.07	50			
KLM	Mb5.5							
NEIC		Mw5.3(GS), Mw5.3(HRV)						
NEIC		Felt I=III MM at Bengkulu.						
NEIC		Moment tensor solution: s7, scale 10^{17}Nm; M_{rr}0.90; $M_{\theta\theta}$0.16; $M_{\phi\phi}$−1.07; $M_{r\theta}$0.22; $M_{r\phi}$−0.29; $M_{\theta\phi}$0.06. Depth 52km; Principal axes: T 1.00,Plg74°,Azm28°; N 0.11,Plg14°, Azm174°; P −1.11,Plg9°,Azm266°. Best double couple: $M_0$1.1×10^{17}Nm; NP1:ϕ_S12°,δ38°, λ112°. NP2:ϕ_S164°,δ55°,λ73°.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c34; Mantle waves: s1,c1; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}7.20±.49; $M_{\theta\theta}$−6.54±.74; $M_{\phi\phi}$−0.66±.77; $M_{r\theta}$3.94±.98; $M_{r\phi}$−3.15±1.10; $M_{\theta\phi}$4.19±.71. Principal Axes: T 8.7,Plg72°,Azm53°; N 1.4,Plg7°,Azm301°; P −10.1,Plg16°,Azm209°. Best double couple: $M_0$9.4×10^{16}Nm, NP1:ϕ_S289°,δ29°,λ76°. NP2:ϕ_S124°,δ61°,λ98°.						
DJA	**XI**	**21 21 32 51.0**±1.13	**4.0S**	**106.2E**	**200**	3.6L,3.6D		**2-3**
DJA		Error ellipse is semi−major=36.1km semi−minor=18.1km azimuth=31						**¶97xi3748**
EIDC	**XI**	**22 14 23 29.1**	**0.9S**	**103.6E**	**0**	3.7b		**¶97xi3892**
EIDC		LO CONF						
ISC	**XI**	**23 07 54 34**±3.9	**5.5S**±.19	**102.5E**±.27	**51**±28	**4.4b**	**14**	**2-88**
DJA	XI	23 07 54 27.6±.70	5.8S	102.0E	2	5.8D,5.2L		**¶97xi4068**
NEIC	XI	23 07 54 31.5	5.57S	102.35E	33	4.3b		
EIDC	XI	23 07 54 48.3	5.6S	102.6E	170	3.8b,3.5s		
DJA		Error ellipse is semi−major=22.1km semi−minor=5.9km azimuth=50						
NEIC		Less reliable solution.						
ISC	**XI**	**23 08 35 48.3**±.90	**5.35S**±.042	**102.59E**±.047	**39**±7.9	**5.1b,4.6s**	**146**	**2-152**
BJI	XI	23 08 35 46.4	5.50S	102.52E	34	5.3b,4.9s		**¶97xi4079**
NEIC	XI	23 08 35 47.7	5.41S	102.52E	33	5.1b,4.8s		
MOS	XI	23 08 35 47.8	5.3S	102.5E	33	5.5b		
KLM	XI	23 08 35 48	5.4S	102.5E	33	4.5L		
EIDC	XI	23 08 35 49.4	5.4S	102.4E	34	4.7b,4.4s		
NEIC		Felt I=II MM at Kepahiang and Liwa.						
KLM	Mb5.1							
ISC	**XI**	**26 14 13 23.0**±.69	**1.05S**±.065	**98.1E**±.11	**33**	**4.6b**,4.2s	**37**	**3-145**
EIDC	XI	26 14 13 18.8	1.2S	97.8E	0	4.4b,5.0L		**¶97xi4698**
DJA	XI	26 14 13 19.6±.44	0.8S	98.2E	240	5.2L,4.6D		
NEIC	XI	26 14 13 22.7	1.04S	98.11E	33	4.6b		
BJI	XI	26 14 13 23.0	1.05S	98.15E	32	4.8b		
DJA		Error ellipse is semi−major=20.2km semi−minor=4.2km azimuth=62						
ISC	**XI**	**26 14 48 28**±1.2	**1.05S**±.087	**98.3E**±.19	**28**	**4.3b**	**21**	**3-145**
DJA	XI	26 14 48 19.0±.87	1.6S	97.4E	28±2.7	4.9L,4.4D		**¶97xi4707**
EIDC	XI	26 14 48 25.5	1.2S	97.9E	0	4.2b,4.5L		
NEIC	XI	26 14 48 27.7	1.05S	97.94E	33			
BJI	XI	26 14 48 29.8	1.11S	98.38E	29	4.6b		
DJA		Error ellipse is semi−major=25.6km semi−minor=4.4km azimuth=66						
NEIC		Less reliable solution.						
ISC	**XI**	**27 00 20 27**±1.8	**4.55S**±.050	**101.80E**±.057	**19**±13	**5.0b,4.7s**	**151**	**1-157**
DJA	XI	27 00 20 23.1±.92	5.2S	101.0E	77±3.6	5.8L,5.3b		**¶97xi4766**
KLM	XI	27 00 20 29	4.5S	101.8E	33	4.4L		
MOS	XI	27 00 20 29.1	4.6S	101.8E	33	5.6b		
BJI	XI	27 00 20 29.4	4.88S	101.98E	53	5.1b,4.9s		
NEIC	XI	27 00 20 29.4	4.54S	101.83E	33	5.0b,4.7s		
EIDC	XI	27 00 20 31.2	4.6S	101.8E	36	4.7b,4.7s		
DJA		Error ellipse is semi−major=38.3km semi−minor=3.7km azimuth=44						
KLM	Mb5.0							
NEIC		Felt I=II MM at Bengkulu.						
DJA	**XI**	**29 10 28 44.4**±.88	**2.1S**	**99.6E**	**2**	**4.6L**,4.1D		**4-5**
DJA		Error ellipse is semi−major=22.5km semi−minor=13.8km azimuth=46						**¶97xi5247**
DJA	**XI**	**29 18 38 29.3**±.53	**5.6S**	**103.7E**	**2**	4.6L,4.2D		**1-3**
DJA		Error ellipse is semi−major=28.8km semi−minor=8.1km azimuth=35						**¶97xi5307**
ISC	**XII**	**07 05 53 24.8**±.66	**6.0S**±.11	**103.8E**±.10	**33**	**4.5b**,4.8s	**34**	**4-148**
DJA	XII	07 05 53 18.7±1.59	6.7S	103.1E	400±.1	6.0L		**¶97xii1627**
EIDC	XII	07 05 53 21.8±.93	6.1S	103.7E	0	4.5b		
BJI	XII	07 05 53 24.9	5.90S	103.80E	33	4.8b,5.3s		
NEIC	XII	07 05 53 24.9	5.94S	103.81E	33	4.6b		
DJA		Error ellipse is semi−major=115.4km semi−minor=9.6km azimuth=39						
EIDC		Error ellipse is semi−major=34.6km semi−minor=14.8km azimuth=53						
NEIC		Less reliable solution.						
EIDC	**XII**	**08 00 50 29.0**	**0.2S**	**101.3E**	**0**	**3.9b**		**3-49**
								¶97xii1832
EIDC		Origin time error = 42.39Error ellipse is semi−major=829.6km semi−minor=256.9km azimuth=154						
EIDC	**XII**	**11 19 31 00.4**	**3.2S**	**102.6E**	**0**	**3.7b**		**13-52**
								¶97xii2629
EIDC		Origin time error = 10.30Error ellipse is semi−major=263.4km semi−minor=37.4km azimuth=79						
ISC	**XII**	**13 03 27 23**±3.4	**4.6S**±.20	**101.9E**±.24	**70**±29	**3.9b**	**17**	**6-145**
EIDC	XII	13 03 27 15.3±2.16	4.7S	101.5E	0	4.0b		**¶97xii2871**
EIDC		Error ellipse is semi−major=80.6km semi−minor=16.1km azimuth=58						
ISC	**XII**	**14 04 10 18**±1.5	**0.2S**±.13	**98.8E**±.28	**33**	**3.9b**	**7**	**2-97**
EIDC	XII	14 04 09 46.6±1.03	3.4N	97.2E	0	3.8b		**¶97xii3081**
DJA	XII	14 04 10 17.7±1.39	0.3S	98.5E	33	4.7L		
EIDC		Error ellipse is semi−major=52.5km semi−minor=23.0km azimuth=44						
DJA		Error ellipse is semi−major=31.7km semi−minor=26.8km azimuth=9						
ISC	**XII**	**18 05 46 55**±3.3	**2.00S**±.034	**99.57E**±.042	**14**±20	**5.3b,5.4s**	**257**	**5-159**
EIDC	XII	18 05 46 54.1±.48	1.9S	99.4E	0	5.0b,5.4s		**¶97xii3717**
KLM	XII	18 05 46 57	1.9S	99.6E	33	4.8L		
MOS	XII	18 05 46 57.2	1.9S	99.6E	32	5.9b,5.4s		
NEIC	XII	18 05 46 57.2	1.95S	99.62E	33	5.3b,5.5s		
BJI	XII	18 05 46 57.4	2.12S	99.58E	44	5.5b,5.6s		
HRVD	XII	18 05 47 00.9±.3	1.90S	99.60E	15			
EIDC		Error ellipse is semi−major=18.3km semi−minor=11.0km azimuth=67						
KLM	MB5.3							
NEIC		Mw5.7(HRV), Mw5.6(GS)						
NEIC		Felt I=IV MM at Padang.						
NEIC		Moment tensor solution: s12, scale 10^{17}Nm; M_{rr}1.04; $M_{\theta\theta}$−1.60; $M_{\phi\phi}$0.56; $M_{r\theta}$1.69; $M_{r\phi}$−1.10; $M_{\theta\phi}$−0.13. Depth 19km; Principal axes: T 2.45,Plg53°,Azm55°; N 0.02,Plg23°, Azm291°; P −2.47,Plg28°,Azm189°. Best double couple: $M_0$2.5×10^{17}Nm; NP1:ϕ_S236°,δ27°, λ32°. NP2:ϕ_S117°,δ76°,λ113°.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c35; Mantle waves: s1,c1; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.24±.10; $M_{\theta\theta}$−0.81±.06; $M_{\phi\phi}$1.05±.14; $M_{r\theta}$3.44±.13; $M_{r\phi}$−2.70±.17; $M_{\theta\phi}$0.16±.08. Principal Axes: T 4.23,Plg44°,Azm51°; N 0.47,Plg11°,Azm310°; P −4.69,Plg44°,Azm209°. Best double couple: $M_0$4.5×10^{17}Nm, NP1:ϕ_S219°,δ11°,λ−1°. NP2:ϕ_S310°,δ90°,λ−101°.						
ISC	**XII**	**18 12 00 13**±6.4	**2.0S**±.17	**99.6E**±.22	**28**±45	**4.2b**,3.4s	**21**	**6-145**
EIDC	XII	18 12 00 09.7±1.74	2.1S	99.5E	0	4.2b,3.4s		**¶97xii3758**
BJI	XII	18 12 00 10.4	2.76S	99.69E	56	4.6b		
NEIC	XII	18 12 00 13.2	1.95S	99.66E	33	4.1b		
EIDC		Error ellipse is semi−major=64.9km semi−minor=15.1km azimuth=60						
NEIC		Less reliable solution.						
ISC	**XII**	**24 17 51 13**±1.1	**4.9S**±.27	**105.0E**±.26	**176**±8.2	**3.8b**	**9**	**0-144**
EIDC	XII	24 17 50 52.5±1.31	4.6S	104.7E	0	3.8b		**¶97xii4795**
NEIC	XII	24 17 51 12.2	4.84S	104.97E	174			
EIDC		Error ellipse is semi−major=46.0km semi−minor=29.4km azimuth=37						
NEIC		Poor solution.						
DJA	**XII**	**25 07 39 10.0**±1.37	**5.1S**	**104.0E**	**423**±33.5	4.8L,4.1D		**1-10**
								¶97xii4888
DJA		Error ellipse is semi−major=108.5km semi−minor=32.1km azimuth=49						
ISC	**XII**	**27 23 20 24**±2.7	**4.8S**±.24	**103.1E**±.29	**66**±25	**3.9b**	**15**	**2-145**
EIDC	XII	27 23 20 22.4±1.73	4.7S	103.1E	39±13.7	3.6b,3.8s		**¶97xii5361**
NEIC	XII	27 23 20 24.7	4.77S	103.18E	75			
EIDC		Error ellipse is semi−major=55.8km semi−minor=20.3km azimuth=48						
NEIC		Poor solution.						

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
EIDC	**XII**	**31 18 20 42.9**	**4.1S**	**104.6E**	**0**	**3.6b**		**1-44**
								¶97xii5941

EIDC Origin time error = 50.95Error ellipse is semi−major=926.1km semi−minor=248.6km azimuth=147LO CONF LocationMultiple, mixed az

(275) Java Sea.

ISC	**VII**	**11 09 55 12.6**±.27	**5.72S**±.030	**110.73E**±.030	**577**±3.9	**5.4b**	**424**	**3-175**
MOS	VII	11 09 55 09.4	5.7S	110.7E	535	5.8b,4.7s		**¶97vii1659**
DJA	VII	11 09 55 10.9	6.1S	110.6E	572	6.2b,4.9D		
BJI	VII	11 09 55 11.7	5.84S	110.72E	579	5.8b		
KLM	VII	11 09 55 12	5.6S	110.7E	574	5.2L		
NEIC	VII	11 09 55 12.5	5.70S	110.80E	574	5.6b		
EIDC	VII	11 09 55 13.6	5.7S	110.7E	576	4.9b		
HRVD	VII	11 09 55 17.3±.1	5.70S±.01	110.65E±.02	592±.9			
KLM	Mb5.6							
NEIC	Mw6.0(HRV).							

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s64,c129; Half duration: 2s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−3.45±.09; $M_{\theta\theta}$7.24±.12; $M_{\phi\phi}$−3.79±.15; $M_{r\theta}$1.84±.12; $M_{r\phi}$−6.03±.13; $M_{\theta\phi}$−3.50±.13. Principal Axes: T 9.35,Plg18°,Azm23°; N 0.40, Plg42°,Azm130°; P −9.75,Plg43°,Azm276°. Best double couple: $M_0$9.6×10^{17}Nm, NP1: ϕ_S69°,δ46°,λ−158°. NP2:ϕ_S324°,δ75°,λ−46°.

ISC	**VII**	**11 10 00 23.3**±.94	**5.75S**±.054	**110.77E**±.082	**596**±14	**4.7b**	**75**	**9-158**
BJI	VII	11 10 00 21.8	5.70S	110.70E	571	5.7b		**¶97vii1663**
NEIC	VII	11 10 00 21.8	5.71S	110.70E	571	4.9b		
KLM	VII	11 10 00 22	5.7S	110.7E	571	4.2L		
EIDC	VII	11 10 00 31.7	5.7S	111.0E	700	4.2b		
KLM	Mb4.9							
DJA	**VII**	**19 17 29 11.3**	**5.9S**	**110.6E**	**667**	**4.5L**		**3-19**
								¶97vii2922
EIDC	**IX**	**03 10 33 06.1**	**4.2S**	**116.3E**	**0**	**3.7b**		**¶97ix0418**
EIDC	LO CONF Location							
DJA	**IX**	**07 06 07 48.4**	**5.7S**	**117.0E**	**207**	**4.8L**,4.5D		**¶97ix1020**
EIDC	**IX**	**12 21 00 55.0**	**4.4S**	**117.4E**	**0**	**3.5b**		**¶97ix1875**
EIDC	**X**	**07 22 04 00.6**	**4.6S**	**116.5E**	**0**	**4.1b**		**¶97x1308**
EIDC	LO CONF Location							
EIDC	**XI**	**21 21 25 06.0**	**4.6S**	**117.5E**	**0**	**3.9b**,3.8L		**¶97xi3746**
DJA	**XII**	**03 07 22 06.3**±1.14	**5.1S**	**117.9E**	**80**	4.7L,4.6D		**4-5**
DJA	Error ellipse is semi−major=32.3km semi−minor=12.8km azimuth=3							**¶97xii0378**
EIDC	**XII**	**05 00 23 51.9**±7.04	**0.7S**	**106.5E**	**0**	**3.5b**		**33-57**
								¶97xii0735

EIDC Error ellipse is semi−major=422.5km semi−minor=28.0km azimuth=56

ISC	**XII**	**24 20 29 01**±1.0	**5.8S**±.14	**111.5E**±.18	**513**±19	**4.2b**	**22**	**5-145**
NEIC	XII	24 20 29 01.1	5.76S	111.50E	513	4.2b		**¶97xii4818**
EIDC	XII	24 20 29 02.8±6.85	5.7S	111.7E	510±108.8	3.3b		
NEIC	Less reliable solution.							

EIDC Error ellipse is semi−major=146.2km semi−minor=20.0km azimuth=53

(276) Sunda Strait.

DJA	**VII**	**18 05 19 56.3**	**5.0S**	**105.5E**	**100**	3.9L,3.4D		**1-2**
								¶97vii2695
ISC	**VII**	**24 16 00 38**±1.5	**6.7S**±.15	**105.2E**±.14	**63**±11	**4.0b**	**21**	**0-145**
DJA	VII	24 16 00 33.9	7.1S	104.9E	100	5.4L,4.3D		**¶97vii3694**
NEIC	VII	24 16 00 38.3	6.70S	105.24E	61	4.2b		
EIDC	VII	24 16 00 41.2	6.6S	105.4E	69	3.7b		
ISC	DJA magnitude values may be overestimated							
NEIC	Less reliable solution.							
DJA	**VII**	**31 02 40 39.6**	**5.6S**	**105.9E**	**33**	4.2L,3.7D		**1-1**
								¶97vii4667
DJA	**VII**	**31 05 52 03.7**	**6.1S**	**104.9E**	**13**	3.9L,3.7D		**1-1**
								¶97vii4684
DJA	**VII**	**31 14 09 44.2**	**5.9S**	**105.7E**	**33**	3.6D		**1-1**
								¶97vii4742
DJA	**VIII**	**01 01 43 40.4**	**6.0S**	**105.6E**	**2**	4.4D		**1-1**
								¶97viii0006
ISC	**VIII**	**01 15 21 37.5**±.45	**5.10S**±.043	**105.10E**±.043	**156**±4.4	**4.7b**	**185**	**0-151**
BJI	VIII	01 15 21 36.0	5.24S	104.94E	154	4.7b		**¶97viii0084**
KLM	VIII	01 15 21 37	5.0S	105.0E	148	4.1L		
NEIC	VIII	01 15 21 37.0	5.07S	105.09E	148	4.8b		
EIDC	VIII	01 15 21 37.6	5.1S	105.0E	144	4.5b		
KLM	Mb4.8							
ISC	**VIII**	**11 12 36 14**±1.1	**6.22S**±.087	**104.83E**±.087	**61**±9.5	**4.6b**	**57**	**1-147**
EIDC	VIII	11 12 36 07.2	6.3S	104.7E	0	4.6b		**¶97viii1562**
BJI	VIII	11 12 36 10.0	6.24S	104.79E	33	4.7b		
NEIC	VIII	11 12 36 10.3	6.23S	104.81E	33	4.7b		
MOS	VIII	11 12 36 10.7	6.2S	104.9E	33	5.0b		
DJA	**VIII**	**15 14 25 14.4**	**7.0S**	**105.7E**	**100**	5.2L,**4.3D**		**0-10**
ISC	DJA magnitude calculations may be overestimated							**¶97viii2228**
DJA	**VIII**	**18 05 03 41.7**	**5.7S**	**105.5E**	**100**	4.6L,3.7D		**0-1**
								¶97viii2625
DJA	**VIII**	**18 05 07 48.4**	**5.6S**	**105.7E**	**33**	3.8D		**1-1**
								¶97viii2626
DJA	**VIII**	**18 05 11 04.9**	**5.7S**	**105.5E**	**33**	4.2L,4.1D		**0-1**
								¶97viii2627
DJA	**VIII**	**23 01 32 41.0**	**6.3S**	**104.4E**	**33**	4.8L,4.1D		**1-1**
								¶97viii3319
ISC	**VIII**	**28 23 14 48**±2.8	**6.9S**±.35	**105.8E**±.20	**55**		**7**	**0-15**
DJA	VIII	28 23 14 48.0	7.0S	105.8E	55	4.6L,3.9D		**¶97viii4197**
DJA	**IX**	**02 00 20 10.8**	**6.5S**	**104.9E**	**2**	5.0L,4.4D		**¶97ix0186**
ISC	**IX**	**02 19 26 13**±3.8	**6.3S**±.23	**104.3E**±.32	**78**±25	**4.1b**	**20**	**1-145**
EIDC	IX	02 19 26 08.6	6.3S	104.2E	22	4.0b		**¶97ix0317**
NEIC	IX	02 19 26 14.4	6.36S	104.09E	100	4.3b		
NEIC	Less reliable solution.							
DJA	**IX**	**10 15 25 41.1**	**6.4S**	**105.3E**	**33**	3.7D		**¶97ix1541**
DJA	**IX**	**12 16 17 06.6**	**6.7S**	**105.5E**	**33**	3.9L,3.9D		**¶97ix1841**
DJA	**IX**	**15 02 00 06.0**	**6.8S**	**105.2E**	**33**	4.3L,3.4D		**¶97ix2189**
DJA	**IX**	**16 23 20 22.6**	**6.2S**	**105.1E**	**33**	3.8L,**3.6D**		**¶97ix2440**
DJA	**IX**	**19 21 20 44.8**	**6.9S**	**105.8E**	**79**	**3.6D,3.2L**		**¶97ix2850**
DJA	**IX**	**23 00 20 31.4**	**5.5S**	**105.8E**	**33**	3.9L,3.5D		**¶97ix3343**
DJA	**IX**	**26 01 15 24.1**	**6.3S**	**105.7E**	**122**	**4.1L,3.8D**		**¶97ix3824**
DJA	**X**	**02 16 11 11.9**	**6.8S**	**104.8E**	**100**	4.3L,3.5D		**¶97x0310**
DJA	**X**	**04 10 34 11.2**	**6.5S**	**105.1E**	**33**	4.2L,3.7D		**¶97x0626**
DJA	**X**	**06 11 57 27.5**	**6.7S**	**104.7E**	**100**	4.2L,3.6D		**¶97x1039**
ISC	**X**	**11 03 03 06.6**±.55	**5.74S**±.049	**105.82E**±.048	**134**±5.4	**4.7b**	**113**	**1-157**
BJI	X	11 03 03 06.6	5.70S	105.90E	131	4.7b		**¶97x1834**
NEIC	X	11 03 03 06.6	5.71S	105.87E	132	4.9b		
KLM	X	11 03 03 07	5.7S	105.8E	132	4.2L		
EIDC	X	11 03 03 08.8	5.7S	105.8E	136	4.4b		
KLM	Mb4.9							
DJA	**X**	**12 23 04 35.9**	**6.7S**	**105.7E**	**110**	3.8L,3.7D		**¶97x2119**
DJA	**X**	**22 00 11 50.6**	**6.2S**	**105.1E**	**33**	**4.4L,4.1D**		**¶97x3724**
ISC	**X**	**29 04 56 00.7**±.79	**6.30S**±.037	**104.15E**±.042	**64**±7.0	**5.3b**	**264**	**1-178**
BJI	X	29 04 55 58.0	6.24S	104.00E	38	5.5b,5.6s		**¶97x4855**
NEIC	X	29 04 55 58.7	6.38S	104.01E	45	5.3b,5.5s		
MOS	X	29 04 55 59.7	6.1S	104.0E	43	5.8b,5.2s		
EIDC	X	29 04 56 00.0	6.3S	103.9E	43	5.0b		
HRVD	X	29 04 56 02.4±.2	6.74S±.03	104.01E±.03	30±1.9			
NEIC	Mw5.6(HRV), Mw5.5(GS)							
NEIC	Felt I=II MM in southern Sumatera, Indonesia.							

NEIC Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}1.51; $M_{\theta\theta}$−1.51; $M_{\phi\phi}$0.00; $M_{r\theta}$1.43; $M_{r\phi}$−0.27; $M_{\theta\phi}$−0.35. Depth 31km; Principal axes: T 2.15,Plg66°,Azm25°; N −0.05,Plg12°, Azm268°; P −2.11,Plg21°,Azm174°. Best double couple: $M_0$2.1×10^{17}Nm; NP1:ϕ_S243°,δ26°, λ63°. NP2:ϕ_S93°,δ67°,λ103°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c65; Mantle waves: s5,c6; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}1.94±.05; $M_{\theta\theta}$−1.82±.07; $M_{\phi\phi}$−0.12±.08; $M_{r\theta}$2.00±.19; $M_{r\phi}$−0.66±.13; $M_{\theta\phi}$1.26±.06. Principal Axes: T 2.81,Plg67°,Azm6°; N 0.51,Plg7°,Azm113°; P −3.31,Plg22°,Azm206°. Best double couple: $M_0$3.1×10^{17}Nm, NP1:ϕ_S309°,δ24°,λ108°. NP2:ϕ_S110°,δ67°,λ82°.

ISC	**XI**	**01 01 46 46**±6.3	**6.6S**±.85	**105.4E**±.83	**156**		**4**	**1-2**
DJA	XI	01 01 46 46.7±.83	6.3S	105.6E	156±7.7	4.4L,4.0D		**¶97xi0010**
ISC	Poorly determined							
DJA	Error ellipse is semi−major=32.6km semi−minor=6.1km azimuth=43							
ISC	**XI**	**03 23 36 34**±4.0	**6.3S**±.20	**104.1E**±.28	**77**±29	**4.1b**	**19**	**2-148**
EIDC	XI	03 23 36 32.5	6.4S	103.9E	43	4.0b		**¶97xi0538**
ISC	**XI**	**03 23 38 42**±1.7	**6.28S**±.062	**104.13E**±.070	**77**±15	**4.8b**	**76**	**2-150**
BJI	XI	03 23 38 37.8	6.41S	103.92E	51	5.3b,4.7s		**¶97xi0539**
NEIC	XI	03 23 38 39.0	6.33S	104.08E	50	4.9b		
EIDC	XI	03 23 38 41.0	6.3S	104.0E	52	4.5b,4.3s		
ISC	**XI**	**10 20 24 08**±2.8	**6.2S**±.11	**104.8E**±.29	**33**	**3.6b**	**8**	**1-43**
EIDC	XI	10 20 22 42.2	2.7N	98.8E	0	3.6b,4.1L		**¶97xi1667**
DJA	XI	10 20 24 14.5±.60	6.1S	105.3E	33	4.7L,4.3D		
DJA	Error ellipse is semi−major=30.2km semi−minor=4.8km azimuth=49							
ISC	**XI**	**11 17 42 38**±1.9	**6.14S**±.059	**105.31E**±.059	**32**±14	**4.8b,4.7s**	**103**	**1-152**
EIDC	XI	11 17 42 35.5	6.0S	105.5E	0	4.5b		**¶97xi1837**
KLM	XI	11 17 42 38	6.0S	105.3E	33	4.2L		
BJI	XI	11 17 42 38.1	6.10S	105.40E	33	4.7b,5.0s		
NEIC	XI	11 17 42 38.1	6.09S	105.38E	33	4.9b		
KLM	Mb4.9							
DJA	**XI**	**11 17 49 29.8**±1.20	**6.1S**	**105.1E**	**68**±17.2	4.3L		**1-2**
DJA	Error ellipse is semi−major=54.9km semi−minor=18.9km azimuth=47							**¶97xi1839**
DJA	**XI**	**11 17 52 04.9**±1.37	**6.1S**	**105.1E**	**2**	4.1L		**0-3**
DJA	Error ellipse is semi−major=45.1km semi−minor=4.6km azimuth=74							**¶97xi1841**
DJA	**XI**	**11 17 59 10.9**±1.24	**6.1S**	**105.0E**	**2**	3.6L		**1-3**
DJA	Error ellipse is semi−major=33.3km semi−minor=4.8km azimuth=81							**¶97xi1842**
DJA	**XI**	**11 18 12 00.1**±1.16	**6.0S**	**105.3E**	**2**	4.2L		**0-2**
DJA	Error ellipse is semi−major=59.9km semi−minor=5.9km azimuth=63							**¶97xi1844**
DJA	**XI**	**15 20 08 06.1**±.85	**6.3S**	**105.2E**	**33**	4.4D,4.3L		**1-2**
DJA	Error ellipse is semi−major=35.8km semi−minor=5.5km azimuth=52							**¶97xi2529**
DJA	**XI**	**20 22 06 59.7**±1.13	**6.2S**	**104.7E**	**100**	4.1L,**3.7D**		**1-2**
DJA	Error ellipse is semi−major=45.0km semi−minor=10.9km azimuth=60							**¶97xi3540**
DJA	**XI**	**20 22 31 31.0**±.72	**6.4S**	**104.7E**	**33**	**4.7L,4.3D**		**1-2**
DJA	Error ellipse is semi−major=19.3km semi−minor=5.6km azimuth=60							**¶97xi3543**
ISC	**XI**	**25 01 44 27.3**±.46	**5.80S**±.067	**105.22E**±.056	**148**±4.4	**4.4b**	**64**	**0-146**
EIDC	XI	25 01 44 22.1	5.7S	105.2E	85	4.1b		**¶97xi4425**
BJI	XI	25 01 44 26.2	5.62S	105.19E	134	4.8b		
NEIC	XI	25 01 44 27.5	5.78S	105.28E	148	4.8b		
EIDC	**XII**	**15 19 52 22.9**±5.35	**6.3S**	**104.6E**	**0**	**3.6b**		**24-43**
								¶97xii3335

EIDC Error ellipse is semi−major=233.9km semi−minor=26.2km azimuth=56

ISC	**XII**	**20 06 33 40**±1.6	**6.28S**±.075	**104.17E**±.084	**45**±14	**4.8b,4.4s**	**89**	**1-152**
DJA	XII	20 06 33 34.7±.59	6.5S	103.8E	143±9.1	6.0L,4.5D		**¶97xii4089**
EIDC	XII	20 06 33 34.7±.57	6.3S	104.0E	0	4.7b,4.3s		
BJI	XII	20 06 33 40.5	6.66S	104.14E	89	5.1b,4.7s		
NEIC	XII	20 06 33 42.7	6.33S	104.09E	71	5.0b		
DJA	Error ellipse is semi−major=33.5km semi−minor=4.8km azimuth=34							
EIDC	Error ellipse is semi−major=22.5km semi−minor=14.3km azimuth=61							
DJA	**XII**	**26 06 13 54.1**±1.13	**6.9S**	**104.4E**	**33**	5.0D,4.9L		**2-2**
								¶97xii5066
DJA	Error ellipse is semi−major=49.8km semi−minor=25.8km azimuth=179							
DJA	**XII**	**27 04 21 42.0**±.97	**6.1S**	**105.7E**	**151**±9.1	5.0L,**3.8D**		**1-6**
DJA	Error ellipse is semi−major=48.9km semi−minor=7.7km azimuth=46							**¶97xii5243**

(277) Java.

DJA	**VII**	**05 04 05 52.8**	**7.7S**	**106.6E**	**67**	**4.7L,4.0D**		**1-3**
								¶97vii0671
DJA	**VII**	**05 16 56 05.4**	**7.8S**	**106.9E**	**33**	**4.2L,3.8D**		**1-2**
								¶97vii0756
DJA	**VII**	**06 12 46 43.4**	**7.5S**	**105.1E**	**33**	**5.0L,4.3D**		**1-3**
ISC	DJA magnitude values may be overestimated							**¶97vii0887**
DJA	**VII**	**06 20 32 24.1**	**8.6S**	**112.6E**	**33**	4.9D,4.6L		**2-4**
								¶97vii0932
EIDC	**VII**	**12 22 26 32.9**	**8.7S**	**111.4E**	**0**	**3.8b**		**25-52**
								¶97vii1878
ISC	**VII**	**12 23 01 08**±1.8	**9.0S**±.16	**110.9E**±.18	**143**±20	**4.0b**	**19**	**4-148**
EIDC	VII	12 23 00 53.0	9.1S	110.6E	0	4.3b		**¶97vii1882**
NEIC	VII	12 23 00 56.0	9.00S	110.65E	33	3.7b		
NEIC	Less reliable solution.							
ISC	**VII**	**13 01 07 17.1**±.91	**9.00S**±.063	**110.59E**±.055	**74**±8.5	**4.5b**	**76**	**4-152**
EIDC	VII	13 01 07 09.4	9.1S	110.6E	0	4.6b,4.2s		**¶97vii1900**
BJI	VII	13 01 07 10.5	9.39S	110.28E	38	4.8b,4.6s		
NEIC	VII	13 01 07 12.7	8.97S	110.61E	33	4.6b		
MOS	VII	13 01 07 15.2	8.5S	110.6E	33	5.3b		
ISC	**VII**	**13 02 43 08**±1.4	**8.8S**±.18	**110.8E**±.12	**114**±13	**4.0b**	**11**	**3-148**
DJA	VII	13 02 42 57.0	8.8S	110.5E	320	4.9L		**¶97vii1913**
EIDC	VII	13 02 42 59.1	8.6S	111.2E	0	4.2b		
NEIC	VII	13 02 43 00.5	8.66S	110.99E	33			
NEIC	Poor solution.							
ISC	**VII**	**13 05 15 50**±1.4	**8.9S**±.12	**110.60E**±.096	**63**±13	**3.9b**	**22**	**4-155**
DJA	VII	13 05 15 32.3	11.2S	110.0E	100	5.3L,4.4D		**¶97vii1926**
NEIC	VII	13 05 15 46.7	8.85S	110.71E	33			
EIDC	VII	13 05 15 56.8	8.9S	110.7E	108	3.6b		
ISC	DJA magnitude values may be overestimated							
NEIC	Single network solution.							
ISC	**VII**	**14 12 54 47**±1.0	**6.8S**±.17	**112.10E**±.077	**42**±11	**3.8b**	**16**	**1-94**
EIDC	VII	14 12 54 43.2	6.9S	112.0E	0	3.9b		**¶97vii2131**
DJA	VII	14 12 54 45.9	6.6S	112.1E	160	5.0L,4.6D		
NEIC	VII	14 12 54 46.5	6.78S	112.09E	33	4.2b		
ISC	DJA magnitude values may be overestimated							

NEIC Poor solution.
ISC VII 15 05 39 56.6±.83 **8.9S**±.15 **110.54E**±.073 **100** **4.0b** **13 2-142**
EIDC VII 15 05 39 45.8 9.4S 110.0E 0 4.1b **¶97vii2258**
NEIC VII 15 05 39 48.8 9.34S 110.11E 33
DJA VII 15 05 39 51.7 9.9S 110.4E 100 5.1L,4.6D
ISC DJA magnitude values may be overestimated
NEIC Poor solution.
ISC VII 16 12 20 41±2.4 **8.9S**±.15 **112.0E**±.22 **100** **6 1-19**
NEIC VII 16 12 20 40.7 8.86S 112.02E 100 4.0b **¶97vii2444**
NEIC Poor solution.
DJA VII 16 17 07 23.2 7.6S 113.8E 15 5.1D,4.1L **1-1**
ISC DJA magnitude values may be overestimated **¶97vii2472**
ISC VII 17 00 13 19±3.6 **7.3S**±.40 **106.4E**±.13 **51** **5 1-2**
DJA VII 17 00 13 19.0 7.3S 106.4E 51 4.3L,4.0D **¶97vii2523**
DJA VII 17 04 20 25.5 7.1S 113.8E 33 4.9D,4.4L **1-2**
¶97vii2543
ISC VII 17 08 45 15.3±.68 **7.73S**±.080 **108.06E**±.060 **89**±6.8 **4.4b** **60 1-152**
DJA VII 17 08 45 13.1 8.3S 107.9E 33 5.8L,4.7D **¶97vii2575**
BJI VII 17 08 45 14.9 7.43S 108.42E 71 4.3b
NEIC VII 17 08 45 15.4 7.74S 108.06E 90 4.6b
EIDC VII 17 08 45 22.0 7.8S 108.1E 137 4.2b,3.6s
ISC DJA magnitude values may be overestimated
ISC VII 21 02 40 08.9±.73 **7.7S**±.32 **109.9E**±.11 **150** **3.7b** **9 2-38**
EIDC VII 21 02 39 08.4 2.7S 106.9E 0 3.9b **¶97vii3178**
DJA VII 21 02 40 05.1 6.0S 110.1E 131 4.9L,4.4D
DJA VII 25 09 18 40.6 8.2S 113.0E 4 5.1D,4.3L **1-2**
ISC DJA magnitude values may be overestimated **¶97vii3810**
ISC VII 25 20 31 22±1.2 **8.3S**±.28 **109.0E**±.12 **110** **10 2-19**
DJA VII 25 20 31 19.5 8.9S 108.8E 110 5.4L,4.5D **¶97vii3875**
NEIC VII 25 20 31 22.0 8.38S 108.96E 100
ISC DJA magnitude values may be overestimated
NEIC Less reliable solution.
DJA VII 27 10 56 06.2 8.0S 108.1E 100 **5.4L,4.4D** **1-4**
ISC DJA magnitude values may be overestimated **¶97vii4096**
ISC VII 28 12 21 31±2.9 **9.0S**±.43 **110.8E**±.14 **85** **5 2-5**
DJA VII 28 12 21 27.9 9.2S 110.5E 85 5.0L,4.5D **¶97vii4270**
ISC DJA magnitude values may be overestimated
DJA VIII 03 05 51 44.0 8.0S 113.2E 80 5.1D,3.9L **1-2**
ISC DJA magnitude calculations may be overestimated **¶97viii0311**
ISC VIII 03 22 58 45±1.3 **6.6S**±.34 **106.2E**±.17 **107** **4 1-1**
DJA VIII 03 22 58 45.3 6.6S 106.2E 107 3.6D,3.5L **¶97viii0425**
ISC Poorly determined
ISC VIII 05 14 29 38.3±.88 **7.2S**±.15 **106.85E**±.098 **91**±7.8 **3.7b** **21 1-146**
EIDC VIII 05 14 29 35.2 7.1S 106.9E 48 3.7b **¶97viii0680**
DJA VIII 05 14 29 37.5 7.4S 106.8E 100 5.5L,5.1b
NEIC VIII 05 14 29 38.3 7.17S 106.84E 90 4.1b
ISC DJA magnitude calculations may be overestimated
NEIC Less reliable solution.
ISC VIII 05 23 27 13.2±.66 **7.87S**±.057 **107.21E**±.050 **104**±5.7 **4.7b** **83 1-156**
DJA VIII 05 23 27 10.7 8.2S 107.1E 100 6.0L,4.8D **¶97viii0735**
EIDC VIII 05 23 27 11.1 7.9S 107.2E 71 4.4b
BJI VIII 05 23 27 12.9 7.97S 107.13E 112 5.1b
NEIC VIII 05 23 27 13.2 7.84S 107.24E 103 4.6b
ISC DJA magnitude calculations may be overestimated
DJA VIII 06 00 01 40.0 7.8S 113.0E 33 3.6L **1-2**
¶97viii0738
EIDC VIII 09 21 21 42.8 8.7S 112.2E 0 3.2b 24-30
¶97viii1310
DJA VIII 15 23 25 31.9 5.3S 107.1E 200 3.9L,3.7D **2-2**
¶97viii2288
ISC VIII 17 08 05 00.8±.72 **7.91S**±.044 **107.64E**±.046 **95**±6.5 **4.8b** **158 1-156**
DJA VIII 17 08 04 52.9 8.8S 107.1E 117 6.3L,4.7D **¶97viii2511**
BJI VIII 17 08 04 59.9 8.25S 107.45E 112 5.0b
EIDC VIII 17 08 05 00.2 7.9S 107.6E 77 4.6b,4.3s
NEIC VIII 17 08 05 02.5 7.90S 107.74E 108 4.8b
MOS VIII 17 08 05 03.8 7.8S 107.8E 124 5.2b
ISC DJA magnitude calculations may be overestimated
DJA VIII 21 06 48 57.3 7.2S 110.9E 80 5.2L,4.5D **3-5**
ISC DJA magnitude calculations may be overestimated **¶97viii3066**
DJA VIII 23 01 26 09.8 7.8S 106.6E 96 **4.4L,3.7D** **1-1**
¶97viii3318
DJA VIII 24 05 52 29.1 7.1S 105.4E 97 4.9L,3.5D **0-2**
¶97viii3486
ISC VIII 25 15 59 27±1.9 **8.2S**±.26 **107.8E**±.14 **57** **8 1-8**
DJA VIII 25 15 59 27.3 8.3S 107.8E 57 4.7L,4.5D **¶97viii3710**
DJA VIII 26 00 39 44.2 8.5S 107.1E 100 **4.7L**,3.8D **1-3**
¶97viii3759
DJA VIII 26 05 36 09.1 7.6S 106.0E 2 **4.2L** **1-2**
¶97viii3792
ISC VIII 30 04 15 54.7±.49 **7.40S**±.088 **106.6E**±.11 **33** **4.6b**,3.9s **59 1-152**
EIDC VIII 30 04 15 51.7 7.5S 106.6E 0 4.5b,3.9s **¶97viii4426**
BJI VIII 30 04 15 55.5 7.40S 106.70E 33 4.4b
NEIC VIII 30 04 15 55.5 7.40S 106.70E 33 4.6b
NEIC Less reliable solution.
DJA IX 06 03 19 13.7 7.7S 113.2E 33 4.9D,4.5L **¶97ix0852**
DJA IX 06 11 17 33.7 8.0S 107.8E 100 4.8L,3.6D **¶97ix0907**
DJA IX 08 05 55 35.1 8.0S 112.8E 33 5.1D,4.2L **¶97ix1183**
DJA IX 11 18 02 03.4 8.0S 113.1E 80 4.9D,3.7L **¶97ix1718**
ISC IX 13 07 05 00±7.4 **7.4S**±.68 **106.0E**±.27 **11** **4 1-2**
DJA IX 13 07 04 59.5 7.6S 106.0E 11 4.2L,4.1D **¶97ix1942**
ISC Poorly determined
ISC IX 13 07 57 50±1.5 **6.9S**±.62 **107.0E**±.27 **187** **4 0-2**
DJA IX 13 07 57 49.0 6.6S 107.2E 187 5.2L,4.1D **¶97ix1950**
ISC Poorly determined
DJA IX 13 16 29 11.3 7.9S 113.1E 33 5.0D,4.6L **¶97ix1994**
DJA IX 15 08 53 46.4 7.4S 106.6E 33 5.1L,**3.9D** **¶97ix2218**
DJA IX 17 07 00 51.0 5.6S 106.7E 33 4.5L,4.1D **¶97ix2478**
DJA IX 18 12 02 39.1 7.2S 111.1E 160 4.8L,4.7D **¶97ix2652**
DJA IX 19 09 22 08.5 7.7S 113.7E 5 4.9D,4.2L **¶97ix2771**
DJA IX 19 14 44 16.4 6.1S 106.4E 17 **4.0L,3.7D** **¶97ix2802**
DJA IX 20 23 36 04.0 5.4S 106.2E 100 3.8D,3.7L **¶97ix3014**
ISC IX 21 13 15 47±3.8 **7.4S**±.38 **106.7E**±.10 **33** **5 1-2**
NEIC IX 21 13 15 45.4 7.49S 106.71E 33 **¶97ix3104**
NEIC Poor solution.
DJA IX 23 23 34 01.3 8.8S 112.9E 33 **4.9L,4.6D** **¶97ix3499**
ISC IX 24 06 02 42±1.2 **6.7S**±.45 **108.5E**±.12 **215**±15 **3.7b** **9 1-40**
DJA IX 24 06 02 40.5 6.8S 108.5E 233 5.1L,4.6D **¶97ix3534**
NEIC IX 24 06 02 42.4 6.84S 108.50E 214
EIDC IX 24 06 03 00.7 10.0S 111.6E 0 3.8b
NEIC Less reliable solution.

DJA IX 25 02 26 16.6 8.0S 113.9E 2 5.0D,3.6L **¶97ix3666**
DJA IX 26 07 10 00.5 8.2S 107.5E 11 **4.3L,4.1D** **¶97ix3903**
DJA IX 28 11 45 04.5 8.3S 113.2E 294 **4.8D,4.3L** **¶97ix4635**
ISC X 03 21 19 13±1.3 **7.6S**±.12 **105.9E**±.14 **33** **3.4b** **9 1-41**
EIDC X 03 21 18 55.8 5.8S 105.0E 0 3.5b **¶97x0527**
DJA X 03 21 19 12.4 7.8S 105.8E 33 5.1L,4.1D
DJA X 04 10 37 09.4 5.5S 106.8E 33 4.0L,3.8D **¶97x0627**
DJA X 06 18 37 22.2 5.2S 106.5E 163 **4.5L,3.8D** **¶97x1100**
DJA X 06 22 23 13.8 5.4S 107.4E 5 **4.8L,4.4D** **¶97x1127**
DJA X 06 23 58 28.6 7.8S 112.3E 33 4.8D,4.6L **¶97x1140**
ISC X 08 02 35 09±9.3 **8.0S**±.74 **106.6E**±.18 **33** **4 1-2**
NEIC X 08 02 35 09.3 7.99S 106.63E 33 **¶97x1341**
ISC Poorly determined
NEIC Poor solution.
ISC X 08 08 54 28±1.8 **7.8S**±.56 **112.8E**±.26 **33** **5 0-3**
NEIC X 08 08 54 28.1 7.90S 112.79E 33 **¶97x1378**
DJA X 08 08 54 33.5 7.9S 113.1E 33 4.7D,3.8L
NEIC Poor solution.
EIDC X 12 00 18 14.6 6.7S 111.5E 0 3.7b **¶97x1961**
DJA X 12 09 31 50.5 7.4S 113.5E 160 4.8D,4.4L **¶97x2018**
DJA X 12 10 34 49.1 7.5S 113.8E 33 5.0D,4.0L **¶97x2024**
DJA X 12 12 46 57.8 5.2S 106.8E 100 3.6D **¶97x2045**
DJA X 12 23 17 54.8 7.7S 112.6E 33 4.9D,4.6L **¶97x2121**
DJA X 13 09 50 04.4 8.0S 112.9E 80 **4.8D,4.4L** **¶97x2198**
DJA X 13 20 15 31.8 7.7S 112.4E 33 4.8D,4.7L **¶97x2280**
ISC X 14 09 48 28±6.0 **7.7S**±.69 **112.6E**±.30 **33** **3.5b** **9 2-115**
NEIC X 14 09 48 28.3 7.74S 112.57E 33 3.4b **¶97x2369**
EIDC X 14 09 48 39.0 8.5S 113.9E 0 3.6b
NEIC Poor solution.
ISC X 15 06 03 32.3±.85 **6.59S**±.057 **107.01E**±.044 **11**±6.2 **4.6b** **47 0-157**
DJA X 15 06 03 32.3 6.6S 107.0E 16 5.6b,4.7D **¶97x2574**
NEIC X 15 06 03 32.7 6.64S 107.02E 10 4.7b
EIDC X 15 06 03 32.8 6.5S 107.1E 0 4.6b
BJI X 15 06 03 33.7 6.60S 107.00E 10
NEIC Felt I=III MM at Bandung and II MM at Jakarta.
ISC X 15 11 12 05±1.2 **6.71S**±.088 **106.77E**±.079 **2** **5 0-2**
DJA X 15 11 12 05.1 6.8S 106.9E 2 5.0D **¶97x2613**
NEIC X 15 11 12 05.1 6.72S 106.88E 33
NEIC Poor solution.
ISC X 17 01 16 49±1.3 **6.70S**±.084 **106.84E**±.088 **2** **8 0-4**
DJA X 17 01 16 47.0 6.7S 106.8E 2 5.8D,4.6L **¶97x2916**
DJA X 18 17 44 59.3 7.7S 113.8E 80 5.0D,3.6L **¶97x3204**
ISC X 19 02 18 51±7.3 **7.6S**±.73 **107.0E**±.22 **75** **5 1-1**
DJA X 19 02 18 51.4 7.6S 107.1E 75 4.6L,3.8D **¶97x3274**
ISC Poorly determined
ISC X 20 23 34 03±1.0 **7.9S**±.49 **111.6E**±.14 **89**±26 **4.0b** **13 1-37**
EIDC X 20 23 33 46.4 7.7S 110.7E 0 4.3b,3.7L **¶97x3571**
DJA X 20 23 33 50.5 9.6S 111.0E 156 5.2L,4.7D
NEIC X 20 23 34 01.3 7.86S 111.51E 85 4.0b
NEIC Poor solution.
ISC X 26 05 41 21±2.1 **7.6S**±.27 **107.3E**±.15 **60** **6 1-7**
NEIC X 26 05 41 20.2 7.71S 107.29E 33 **¶97x4420**
DJA X 26 05 41 20.7 7.7S 107.3E 60 4.8L,4.4D
NEIC Single network solution.
ISC X 26 12 52 24.3±.90 **8.2S**±.16 **109.05E**±.087 **163**±30 **11 2-16**
DJA X 26 12 52 23.8 8.6S 109.0E 118 4.5D,4.5L **¶97x4463**
NEIC X 26 12 52 24.1 8.43S 109.12E 100
NEIC Less reliable solution.
ISC X 26 12 57 55±4.5 **8.7S**±.75 **108.9E**±.28 **33** **8 2-7**
DJA X 26 12 57 55.2 9.0S 108.8E 33 5.1L,4.5D **¶97x4465**
NEIC X 26 12 57 55.6 8.66S 108.92E 33
NEIC Poor solution.
ISC X 26 22 20 56±2.0 **7.1S**±.22 **106.8E**±.12 **33** **6 0-2**
NEIC X 26 22 20 55.5 7.13S 106.84E 33 **¶97x4527**
NEIC Poor solution.
DJA XI 04 00 50 34.0±1.20 **6.9S 111.0E 160** 4.8D,4.4L **3-4**
¶97xi0546
DJA Error ellipse is semi-major=144.1km semi-minor=29.8km azimuth=24
ISC XI 04 05 29 54±2.0 **7.6S**±.52 **106.7E**±.24 **218**±25 3.7b **8 0-21**
¶97xi0581
ISC XI 05 10 47 25.2±.85 **6.5S**±.24 **108.49E**±.078 **262**±9.1 **4.0b** **16 1-68**
EIDC XI 05 10 46 53.7 5.7S 108.0E 0 4.4b **¶97xi0777**
DJA XI 05 10 47 21.9±.19 6.6S 108.5E 300 5.3L,3.7D
NEIC XI 05 10 47 25.3 6.51S 108.47E 261 4.1b
DJA Error ellipse is semi-major=26.9km semi-minor=4.7km azimuth=10
NEIC Less reliable solution.
DJA XI 07 06 51 54.6±1.13 **7.4S 112.7E 80** 4.5D,4.5L **0-4**
DJA Error ellipse is semi-major=43.1km semi-minor=26.8km azimuth=29 **¶97xi1090**
ISC XI 09 19 20 09±1.1 **8.4S**±.11 **107.86E**±.083 **74**±11 **3.8b** **25 1-149**
EIDC XI 09 19 20 01.5 8.5S 107.7E 0 4.0b **¶97xi1499**
NEIC XI 09 19 20 08.7 8.47S 107.85E 72 4.2b
DJA XI 09 19 31 30.9±1.80 **7.6S 106.0E 33** 5.3L,**4.2D** **1-2**
DJA Error ellipse is semi-major=54.5km semi-minor=8.0km azimuth=17 **¶97xi1501**
ISC XI 11 19 32 24±1.4 **8.9S**±.23 **112.51E**±.092 **62**±29 **3.4b** **11 1-35**
NEIC XI 11 19 32 17.9 9.20S 111.78E 33 4.3b **¶97xi1858**
DJA XI 11 19 32 21.9±.99 9.4S 112.4E 11±15.0 5.1D,4.9L
EIDC XI 11 19 32 26.8 9.2S 113.4E 0 3.4b
NEIC Poor solution.
EIDC LO CONF Location
ISC XI 13 02 55 38.7±.71 **7.4S**±.10 **106.79E**±.068 **80**±7.3 **4.3b** **37 0-156**
EIDC XI 13 02 55 36.5 7.2S 106.8E 44 4.2b,3.7s **¶97xi2069**
NEIC XI 13 02 55 38.7 7.38S 106.80E 80 4.5b
NEIC Felt I=III MM at Sukabumi.
ISC XI 14 23 29 12.5±.88 **7.3S**±.10 **106.82E**±.075 **76**±8.2 **4.2b** **38 0-156**
NEIC XI 14 23 29 12.2 7.27S 106.88E 74 4.6b **¶97xi2376**
EIDC XI 14 23 29 14.9 7.3S 106.9E 80 4.0b
NEIC Less reliable solution.
ISC XI 15 00 13 48±1.7 **8.8S**±.28 **111.11E**±.097 **100** **7 1-5**
DJA XI 15 00 13 46.2±1.24 9.3S 111.0E 123±32.4 5.2L,4.6D **¶97xi2388**
NEIC XI 15 00 13 48.2 8.76S 111.12E 100
DJA Error ellipse is semi-major=88.2km semi-minor=5.9km azimuth=8
NEIC Single network solution.
ISC XI 17 21 31 28.4±.92 **8.3S**±.19 **108.9E**±.10 **109** **3.8b** **7 3-38**
DJA XI 17 21 31 29.5±1.27 8.6S 108.6E 109±23.3 4.7L,4.3D **¶97xi2864**
EIDC XI 17 21 31 56.4 11.5S 112.0E 0 3.8b
DJA Error ellipse is semi-major=70.7km semi-minor=41.9km azimuth=45
DJA XI 22 18 31 11.3±.89 **7.2S 105.8E 15**±5.4 **4.5D**,4.1L **1-26**
DJA Error ellipse is semi-major=32.8km semi-minor=8.3km azimuth=21 **¶97xi3938**
DJA XI 26 13 31 27.0±.27 **6.5S 106.2E 200** 4.3L,3.7D **1-1**
DJA Error ellipse is semi-major=52.3km semi-minor=14.2km azimuth=41 **¶97xi4691**

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**06 10 42 28**±1.2	**8.7S**±.14	**112.5E**±.11	**33**	**3.6b**	**10**	**1-149**
NEIC	XII	06 10 42 27.9	8.69S	112.48E	33			¶97xii1367
EIDC	XII	06 10 42 32.5±2.47	10.4S	112.3E	0	3.6b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=116.3km semi−minor=39.8km azimuth=23							
DJA	**XII**	**10 23 36 45.7**±1.13	**8.3S**	**111.7E**	**80**	4.7D,4.0L		**1-3**
DJA	Error ellipse is semi−major=316.5km semi−minor=26.2km azimuth=2							¶97xii2445
ISC	**XII**	**13 07 52 43.7**±.75	**8.33S**±.072	**109.83E**±.055	**84**±8.0	**4.4b**	**47**	**2-155**
DJA	XII	13 07 52 39.0±.87	9.2S	109.6E	100	5.7L,4.6D		¶97xii2913
NEIC	XII	13 07 52 42.6	8.51S	109.78E	70	4.6b		
EIDC	XII	13 07 52 53.4±6.93	8.4S	110.0E	152±63.8	4.1b,4.1s		
DJA	Error ellipse is semi−major=44.1km semi−minor=3.8km azimuth=14							
EIDC	Error ellipse is semi−major=27.8km semi−minor=14.4km azimuth=75							
ISC	**XII**	**15 07 18 46**±5.6	**7.9S**±.13	**107.7E**±.11	**11**±34	**4.4b,**3.5s	**45**	**1-151**
EIDC	XII	15 07 18 45.3±.69	7.8S	107.9E	0	4.2b,3.5s		¶97xii3254
NEIC	XII	15 07 18 48.7	7.88S	107.77E	33	4.7b		
DJA	XII	15 07 18 50.7±.98	8.0S	107.9E	182±10.8	6.1L,4.8D		
EIDC	Error ellipse is semi−major=33.6km semi−minor=16.9km azimuth=40							
DJA	Error ellipse is semi−major=63.1km semi−minor=6.3km azimuth=19							
DJA	**XII**	**19 13 58 07.6**±.53	**6.7S**	**107.3E**	**2**	5.5D		**0-1**
DJA	Error ellipse is semi−major=11.4km semi−minor=4.9km azimuth=27							¶97xii3975
ISC	**XII**	**23 14 16 55**±1.1	**8.2S**±.13	**109.98E**±.093	**100**±11	**4.1b**	**23**	**2-142**
NEIC	XII	23 14 16 55.7	8.24S	109.95E	110	4.3b		¶97xii4614
EIDC	XII	23 14 16 57.3±1.62	8.4S	109.9E	109±12.2	3.9b,3.2s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=57.0km semi−minor=19.0km azimuth=49							
DJA	**XII**	**25 14 24 26.1**±1.81	**8.2S**	**112.6E**	**160**	4.8D,4.5L		**2-2**
								¶97xii4945
DJA	Error ellipse is semi−major=305.9km semi−minor=35.5km azimuth=179							
ISC	**XII**	**25 22 30 53.9**±.72	**7.40S**±.059	**106.66E**±.055	**71**±6.2	**4.7b**	**126**	**0-151**
EIDC	XII	25 22 30 50.2±4.21	7.5S	106.5E	26±27.9	4.4b,4.0s		¶97xii4996
MOS	XII	25 22 30 50.8	7.1S	107.0E	38	5.8b,5.2s		
BJI	XII	25 22 30 51.8	7.50S	106.60E	50	5.0b,4.7s		
NEIC	XII	25 22 30 51.8	7.53S	106.60E	50	4.9b		
EIDC	Error ellipse is semi−major=19.5km semi−minor=12.9km azimuth=66							
ISC	**XII**	**27 04 51 55.9**±.81	**6.8S**±.13	**106.5E**±.10	**109**±7.4	**4.3b**	**39**	**0-146**
DJA	XII	27 04 51 52.2±.60	7.4S	106.2E	133±4.1	6.2L,4.8b		¶97xii5250
NEIC	XII	27 04 51 57.4	7.08S	106.55E	109	4.5b		
EIDC	XII	27 04 51 58.2±8.92	6.8S	106.6E	102±81.6	4.0b		
DJA	Error ellipse is semi−major=29.8km semi−minor=4.4km azimuth=30							
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=49.7km semi−minor=21.6km azimuth=53							
ISC	**XII**	**31 23 10 47.5**±.56	**6.1S**±.11	**106.12E**±.082	**141**±6.1	**4.1b**	**40**	**1-144**
DJA	XII	31 23 10 42.3±.50	7.0S	105.5E	173±2.6	5.5L,5.1b		¶97xii5998
NEIC	XII	31 23 10 48.8	6.19S	106.18E	150	4.2b		
EIDC	XII	31 23 10 54.0	6.2S	106.1E	184±148.2	3.5b		
DJA	Error ellipse is semi−major=29.9km semi−minor=3.8km azimuth=32							
EIDC	Origin time error = 15.75Error ellipse is semi−major=46.2km semi−minor=21.7km azimuth=83							

(278) Bali Sea.

DJA	**VII**	**01 02 34 39.6**	**6.6S**	**115.0E**	**320**	**4.6D,4.6L**		**2-2**
								¶97vii0014
ISC	**VII**	**17 05 58 56**±1.4	**8.0S**±.23	**117.6E**±.25	**111**±51		**7**	**2-20**
DJA	VII	17 05 58 52.1	8.3S	117.9E	160	4.7L,4.6D		¶97vii2552
ISC	**VII**	**26 12 47 35.8**±.36	**7.60S**±.038	**117.12E**±.039	**312**±4.4	**4.4b**	**98**	**1-156**
DJA	VII	26 12 47 34.2	7.8S	117.2E	315	5.2L,4.6D		¶97vii3967
BJI	VII	26 12 47 35.9	7.65S	117.07E	316	4.3b		
NEIC	VII	26 12 47 35.9	7.57S	117.09E	317	4.9b		
EIDC	VII	26 12 47 37.0	7.6S	117.1E	311	4.1b		
DJA	**VIII**	**15 23 29 55.3**	**7.6S**	**114.4E**	**80**	5.4D,4.0L		**1-1**
ISC	DJA magnitude calculations may be overestimated							¶97viii2290
DJA	**VIII**	**20 23 27 09.8**	**7.2S**	**115.1E**	**11**	5.0L,4.8D		**1-2**
ISC	DJA magnitude calculations may be overestimated							¶97viii3033
DJA	**VIII**	**21 23 14 17.8**	**7.5S**	**115.0E**	**80**	4.5D,3.4L		**1-6**
								¶97viii3156
DJA	**VIII**	**21 23 18 26.1**	**7.6S**	**115.1E**	**33**	4.5D,3.6L		**1-1**
								¶97viii3159
DJA	**IX**	**05 19 19 32.6**	**6.8S**	**114.4E**	**80**	4.5D,4.2L		¶97ix0786
DJA	**IX**	**07 07 29 31.9**	**7.3S**	**116.1E**	**160**	4.4D,4.1L		¶97ix1024
DJA	**IX**	**07 13 06 31.0**	**7.1S**	**115.9E**	**33**	**4.7D,4.4L**		¶97ix1068
DJA	**IX**	**08 09 39 54.7**	**7.5S**	**115.1E**	**33**	4.5D,3.7L		¶97ix1204
DJA	**IX**	**14 07 40 23.8**	**7.9S**	**114.7E**	**5**	4.7D		¶97ix2086
ISC	**IX**	**14 07 54 47**±1.0	**7.1S**±.13	**116.78E**±.092	**33**	**2.9b**	**9**	**1-23**
DJA	IX	14 07 54 43.9	8.6S	117.0E	189	4.5D,4.4L		¶97ix2088
EIDC	IX	14 07 55 32.8	10.6S	119.7E	0	3.4L,3.9b		
DJA	**IX**	**25 00 41 13.8**	**7.5S**	**114.2E**	**240**	5.0D,4.1L		¶97ix3656
DJA	**IX**	**28 13 54 34.5**	**7.6S**	**116.2E**	**16**	4.5D,4.2L		¶97ix4659
DJA	**X**	**12 20 30 22.1**	**7.9S**	**114.9E**	**80**	4.5D,3.2L		¶97x2097
ISC	**X**	**23 03 03 45**±1.4	**7.3S**±.15	**116.3E**±.20	**150**	**3.9b**	**11**	**5-56**
EIDC	X	23 03 03 41.6	7.4S	116.1E	101	3.7b		¶97x3916
ISC	**X**	**30 18 35 19**±1.0	**7.1S**±.32	**117.3E**±.28	**591**±17	**3.8b**	**10**	**2-33**
NEIC	X	30 18 35 19.3	7.12S	117.30E	591			¶97x5078
EIDC	X	30 18 35 22.3	7.1S	117.5E	613	2.7b		
NEIC	Poor solution.							
DJA	**XI**	**13 15 25 15.6**±1.28	**6.4S**	**114.4E**	**80**	4.8D,3.8L		**2-2**
DJA	Error ellipse is semi−major=41.3km semi−minor=33.3km azimuth=85							¶97xi2158
DJA	**XI**	**18 02 28 34.5**±1.04	**7.5S**	**116.0E**	**11**±6.7	**4.9D,3.6L**		**1-2**
DJA	Error ellipse is semi−major=21.8km semi−minor=13.1km azimuth=19							¶97xi2901
DJA	**XI**	**21 20 58 58.2**±1.18	**6.1S**	**115.1E**	**33**	4.5D,3.4L		**2-3**
								¶97xi3741
DJA	Error ellipse is semi−major=28.2km semi−minor=16.1km azimuth=175							
ISC	**XI**	**25 16 26 06**±7.5	**7.7S**±.53	**115.7E**±.22	**15**		**4**	**1-2**
DJA	XI	25 16 26 10.1±.97	7.9S	115.6E	15	4.7D,3.8L		¶97xi4547
ISC	Poorly determined							
DJA	Error ellipse is semi−major=27.8km semi−minor=6.4km azimuth=14							
ISC	**XII**	**02 10 09 15.0**±.99	**7.4S**±.20	**116.9E**±.19	**5**		**8**	**1-5**
DJA	XII	02 10 09 17.9±.68	7.4S	116.9E	5±13.0	4.8D,4.2L		¶97xii0225
DJA	Error ellipse is semi−major=49.7km semi−minor=3.9km azimuth=140							
DJA	**XII**	**08 10 20 20.7**±1.71	**6.0S**	**117.2E**	**80**	**5.0D,**4.3L		**3-4**
								¶97xii1909
DJA	Error ellipse is semi−major=58.3km semi−minor=33.3km azimuth=177							
ISC	**XII**	**13 01 59 54**±17	**7.2S**±.89	**115.2E**±.19	**10**±50		**5**	**1-2**
DJA	XII	13 01 59 59.6±.73	7.4S	115.2E	15	4.6D,3.8L		¶97xii2859
ISC	Poorly determined							
DJA	Error ellipse is semi−major=16.3km semi−minor=10.8km azimuth=175							
ISC	**XII**	**16 09 39 11**±3.6	**7.3S**±.57	**117.82E**±.077	**33**	**3.9b**	**10**	**2-33**
EIDC	XII	16 09 38 50.8	5.4S	117.3E	0	3.7b		¶97xii3428
EIDC	Origin time error = 13.13Error ellipse is semi−major=298.8km semi−minor=152.0km azimuth=19							
ISC	**XII**	**18 17 01 24**±4.0	**7.8S**±.61	**117.7E**±.44	**33**		**6**	**2-4**
								¶97xii3794
ISC	**XII**	**19 18 23 59.8**±.85	**7.97S**±.067	**117.70E**±.056	**40**±9.3	**4.2b**	**33**	**2-80**
NEIC	XII	19 18 23 59.6	8.01S	117.75E	33	4.1b		¶97xii4014
EIDC	XII	19 18 24 05.8±6.19	8.3S	117.7E	66±63.1	3.9b,3.7L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=41.7km semi−minor=22.4km azimuth=55							
ISC	**XII**	**23 06 37 17**±1.3	**6.7S**±.25	**117.8E**±.20	**274**±35		**6**	**2-23**
DJA	XII	23 06 37 18.0±1.24	7.2S	117.6E	310±62.9	4.7L,4.6D		¶97xii4553
DJA	Error ellipse is semi−major=414.6km semi−minor=26.7km azimuth=176							
DJA	**XII**	**29 15 06 45.8**±1.26	**7.9S**	**115.0E**	**211**±12.4	4.5D,3.6L		**0-1**
								¶97xii5601
DJA	Error ellipse is semi−major=71.1km semi−minor=15.1km azimuth=178							
ISC	**XII**	**29 15 44 34.6**±.72	**7.31S**±.074	**115.29E**±.081	**15**	**3.8b**	**15**	**1-79**
EIDC	XII	29 15 44 35.8±.87	6.8S	116.0E	0	3.8b,3.8L		¶97xii5605
DJA	XII	29 15 44 36.2±.93	7.3S	115.3E	15	5.0L,4.6D		
EIDC	Error ellipse is semi−major=46.2km semi−minor=16.5km azimuth=57Multiple, same az							
DJA	Error ellipse is semi−major=20.7km semi−minor=9.3km azimuth=2							

(279) Flores Sea.

ISC	**VII**	**17 01 29 40**±3.0	**7.4S**±.19	**119.9E**±.23	**575**±49	**4.2b**	**13**	**19-155**
NEIC	VII	17 01 29 38.8	7.35S	119.95E	550	4.4b		¶97vii2528
EIDC	VII	17 01 29 41.1	7.4S	120.0E	563	3.5b		
NEIC	Less reliable solution.							
DJA	**VII**	**19 20 25 19.7**	**6.6S**	**120.5E**	**33**	3.9L		**3-3**
								¶97vii2948
DJA	**VII**	**19 20 39 12.3**	**6.1S**	**122.2E**	**33**	4.0L		**3-4**
								¶97vii2951
ISC	**VII**	**21 08 41 50.2**±.96	**7.81S**±.092	**119.03E**±.088	**66**±32		**8**	**2-19**
DJA	VII	21 08 41 45.4	8.2S	119.4E	137	4.7D,4.5L		¶97vii3219
ISC	**VII**	**26 08 03 03.9**±.79	**8.00S**±.081	**119.88E**±.084	**33**	4.0b	**8**	**2-23**
NEIC	VII	26 08 03 03.8	8.00S	119.87E	33	4.0b		¶97vii3938
DJA	VII	26 08 03 06.5	7.9S	119.8E	33	4.6L,4.6D		
DJA	**VII**	**26 19 32 44.4**	**6.1S**	**119.4E**	**6**	4.7D,4.6L		**3-3**
								¶97vii4002
ISC	**VII**	**26 20 44 20.9**±.35	**7.32S**±.037	**120.39E**±.047	**588**±5.9	**4.7b**	**150**	**2-155**
DJA	VII	26 20 44 19.3	7.6S	120.4E	572	6.1L,5.1b		¶97vii4009
NEIC	VII	26 20 44 20.8	7.31S	120.37E	587	5.2b		
EIDC	VII	26 20 44 20.9	7.4S	120.4E	572	4.0b		
BJI	VII	26 20 44 21.1	7.22S	120.60E	585	4.9b		
MOS	VII	26 20 44 21.6	7.3S	120.3E	597	4.8b		
ISC	DJA magnitude values may be overestimated							
ISC	**VII**	**30 17 40 10**±4.1	**7.5S**±.54	**118.4E**±.50	**200**		**7**	**2-4**
								¶97vii4616
ISC	**VIII**	**01 17 40 11.3**±.47	**7.78S**±.048	**118.90E**±.066	**33**	**4.4b,**3.0s	**31**	**3-146**
DJA	VIII	01 17 40 05.7	7.9S	118.8E	217	5.3L,4.7D		¶97viii0098
NEIC	VIII	01 17 40 11.7	7.83S	118.93E	33	4.8b		
EIDC	VIII	01 17 40 12.4	8.5S	118.8E	0	4.3b,3.2s		
ISC	DJA magnitude calculations may be overestimated							
ISC	**VIII**	**04 06 12 07**±2.3	**8.0S**±.42	**119.9E**±.17	**185**±34	**3.9b**	**13**	**4-134**
EIDC	VIII	04 06 11 44.5	7.6S	119.3E	0	3.9b,4.3L		¶97viii0466
NEIC	VIII	04 06 12 08.8	8.05S	119.78E	200	4.1b		
NEIC	Less reliable solution.							
ISC	**VIII**	**10 19 00 17**±2.4	**7.3S**±.23	**120.6E**±.27	**607**±51	**3.9b**	**10**	**12-33**
NEIC	VIII	10 19 00 16.2	7.33S	120.55E	600	4.2b		¶97viii1442
EIDC	VIII	10 19 00 17.3	7.0S	121.2E	594	2.9b		
NEIC	Poor solution.							
ISC	**VIII**	**19 23 57 23**±1.2	**7.76S**±.079	**122.82E**±.099	**262**±13	**4.3b**	**25**	**3-81**
NEIC	VIII	19 23 57 17.8	7.65S	122.73E	200	4.7b		¶97viii2883
EIDC	VIII	19 23 57 20.5	7.6S	122.8E	205	3.9b		
NEIC	Less reliable solution.							
ISC	**VIII**	**24 00 30 42**±2.8	**7.9S**±.42	**118.6E**±.16	**181**±16	3.7b	**8**	**2-21**
								¶97viii3468
ISC	**VIII**	**25 19 52 59**±4.4	**7.9S**±.44	**122.5E**±.22	**200**	4.1b	**9**	**11-35**
								¶97viii3735
EIDC	**IX**	**01 00 38 05.6**	**6.9S**	**118.4E**	**0**	**4.1b**		¶97ix0012
ISC	**IX**	**08 18 30 01**±4.0	**7.1S**±.50	**121.0E**±.29	**33**	**4.1b**	**9**	**11-74**
EIDC	IX	08 18 29 57.0	6.9S	121.1E	0	4.1b,4.3L		¶97ix1261
ISC	**IX**	**11 15 38 34**±4.0	**7.81S**±.070	**119.02E**±.068	**29**±40	**4.6b**	**17**	**2-32**
DJA	IX	11 15 38 30.4	7.9S	119.1E	200	5.0L,4.6D		¶97ix1694
NEIC	IX	11 15 38 33.7	7.85S	118.94E	33	4.4b		
EIDC	IX	11 15 38 35.2	7.9S	119.4E	0	4.6b,4.3L		
NEIC	Poor solution.							
ISC	**IX**	**14 06 42 20**±3.4	**7.3S**±.23	**122.7E**±.27	**604**±54	**3.5b**	**11**	**11-80**
EIDC	IX	14 06 42 17.8	7.6S	122.0E	571	3.1b		¶97ix2085
ISC	**IX**	**18 00 12 28**±3.5	**7.0S**±.40	**118.0E**±.24	**213**±26	**3.4b**	**10**	**2-74**
EIDC	IX	18 00 12 05.1	7.3S	117.1E	0	3.5b		¶97ix2584
NEIC	IX	18 00 12 32.1	7.52S	117.83E	231	4.2b		
EIDC	LO CONF Location							
NEIC	Poor solution.							
EIDC	**IX**	**21 12 10 02.9**	**8.0S**	**122.9E**	**260**	3.1b		¶97ix3097
ISC	**IX**	**22 07 23 22.9**±.38	**7.19S**±.047	**120.34E**±.065	**587**±6.3	**4.6b**	**67**	**2-147**
DJA	IX	22 07 23 21.2	7.4S	120.4E	572	5.1L,5.1b		¶97ix3240
BJI	IX	22 07 23 23.4	7.20S	120.30E	600	4.5b		
NEIC	IX	22 07 23 23.4	7.20S	120.34E	600	4.9b		
EIDC	IX	22 07 23 23.7	7.2S	120.6E	576	3.8b		
ISC	**IX**	**28 21 52 36.7**±.47	**7.75S**±.055	**118.91E**±.053	**33**	**4.3b,**3.6s	**33**	**3-146**
NEIC	IX	28 21 52 36.4	7.75S	118.89E	33	4.5b		¶97ix4767
EIDC	IX	28 21 52 38.5	8.3S	118.9E	0	4.1b,3.4s		
DJA	IX	28 21 52 39.8	7.4S	118.5E	2	5.1D,5.0L		
BJI	IX	28 21 52 45.0	8.44S	118.67E	52	4.6b		
DJA	**X**	**25 03 04 36.0**	**6.5S**	**120.0E**	**100**	4.5D,3.4L		¶97x4260
ISC	**X**	**27 00 12 23**±5.9	**7.9S**±.53	**119.8E**±.30	**188**±15	**4.1b**	**12**	**2-31**
EIDC	X	27 00 11 45.2	5.6S	119.0E	0	4.1b,3.7L		¶97x4539
NEIC	X	27 00 12 00.6	5.93S	119.09E	150	3.9b		
NEIC	Poor solution.							
ISC	**X**	**27 18 27 12.1**±.43	**7.57S**±.048	**119.28E**±.049	**286**±5.6	**4.1b**	**50**	**2-146**
DJA	X	27 18 27 03.8	8.3S	120.0E	300	4.6D		¶97x4644
BJI	X	27 18 27 11.7	7.62S	119.28E	287	4.4b		
NEIC	X	27 18 27 11.9	7.56S	119.30E	286	4.1b		
EIDC	X	27 18 27 13.7	7.5S	119.4E	286	3.8b		
DJA	**XI**	**02 05 58 56.3**±.98	**6.2S**	**120.5E**	**33**	4.5D,3.9L		**1-3**
								¶97xi0203
DJA	Error ellipse is semi−major=21.1km semi−minor=17.0km azimuth=152							
ISC	**XI**	**15 23 53 41.0**±.66	**7.48S**±.081	**118.43E**±.075	**100**	3.8b	**12**	**2-24**
NEIC	XI	15 23 53 40.9	7.52S	118.48E	100	3.7b		¶97xi2569

ISC	XI	**29 23 00 28**±2.8	**8.0S**±.39	**120.8E**±.17	**150**		**6 2-20**	
								¶97xi5337

(280) Banda Sea.

ISC	VII	**01 13 39 23**±9.2	**6.2S**±.94	**125.2E**±.37	**400**	4.5b	**6 12-21**	
								¶97vii0099
ISC	VII	**02 08 26 59**±2.8	**5.7S**±.14	**128.4E**±.16	**328**±33	**3.6b**	**11 10-80**	
NEIC	VII	02 08 26 57.2	5.61S	128.39E	300	4.0b		**¶97vii0204**
EIDC	VII	02 08 27 01.8	5.8S	128.2E	344	3.4b		
NEIC	Less reliable solution.							
ISC	VII	**02 19 48 57**±1.7	**6.6S**±.13	**128.3E**±.15	**405**±25	**3.7b**	**17 6-81**	
NEIC	VII	02 19 48 56.2	6.56S	128.38E	398	4.4b		**¶97vii0292**
EIDC	VII	02 19 48 57.3	6.6S	128.4E	395	3.4b		
NEIC	Less reliable solution.							
EIDC	VII	**03 02 51 43.0**	**4.8S**	**129.7E**	**0**	**4.3L**,4.6b	**11-42**	
								¶97vii0347
ISC	VII	**03 05 19 45**±3.7	**6.6S**±.20	**130.1E**±.21	**119**±32	**4.3b**	**11 7-93**	
EIDC	VII	03 05 19 31.6	6.2S	129.5E	0	4.5b,5.0L		**¶97vii0362**
NEIC	VII	03 05 19 47.3	6.72S	130.03E	150	4.3b		
NEIC	Less reliable solution.							
ISC	VII	**04 16 50 14**±8.8	**7.9S**±.74	**129.8E**±.34	**33**	3.9b	**4 11-26**	
EIDC	VII	04 16 50 07.8	7.6S	129.7E	0	3.7L,4.2b		**¶97vii0594**
ISC	Poorly determined							
ISC	VII	**06 23 58 49**±3.6	**7.4S**±.12	**128.2E**±.15	**39**±36	**4.1b**	**18 11-94**	
EIDC	VII	06 23 58 46.2	7.6S	127.7E	0	4.2b,4.2L		**¶97vii0953**
NEIC	VII	06 23 58 48.8	7.37S	128.23E	33	4.1b		
NEIC	Less reliable solution.							
EIDC	VII	**08 21 16 41.5**	**5.4S**	**128.4E**	**422**	2.9b	**13-38**	
								¶97vii1234
ISC	VII	**10 09 31 56**±1.1	**4.9S**±.17	**129.5E**±.32	**33**	4.1b	**7 16-92**	
EIDC	VII	10 09 31 52.5	4.8S	129.6E	0	3.8L,4.2b		**¶97vii1491**
NEIC	VII	10 09 31 55.4	4.92S	129.46E	33	3.4b		
NEIC	Poor solution.							
ISC	VII	**11 10 20 07.6**±.53	**7.55S**±.063	**128.9E**±.17	**33**	**4.3b**	**24 11-151**	
EIDC	VII	11 10 20 05.9	7.2S	129.5E	0	4.4b,4.2L		**¶97vii1667**
NEIC	VII	11 10 20 08.6	7.35S	129.48E	33	4.3b		
NEIC	Less reliable solution.							
ISC	VII	**12 04 24 28**±4.8	**7.4S**±.15	**128.5E**±.35	**74**±46	**3.9b**	**16 14-157**	
NEIC	VII	12 04 24 23.7	7.35S	128.42E	33			**¶97vii1774**
EIDC	VII	12 04 24 26.0	7.4S	128.2E	39	3.8b,4.0L		
NEIC	Poor solution.							
ISC	VII	**12 20 27 40**±1.1	**6.18S**±.057	**130.44E**±.098	**184**±13	**4.0b**	**24 3-151**	
NEIC	VII	12 20 27 39.6	6.19S	130.43E	182	4.3b		**¶97vii1866**
EIDC	VII	12 20 27 40.3	6.1S	130.4E	167	3.7b		
ISC	VII	**13 14 43 00.5**±.72	**7.39S**±.033	**126.70E**±.036	**290**±8.4	**4.6b**	**165 7-158**	
BJI	VII	13 14 43 00.7	7.33S	126.78E	292	4.5b		**¶97vii1980**
NEIC	VII	13 14 43 00.9	7.35S	126.69E	296	5.0b		
EIDC	VII	13 14 43 02.8	7.4S	126.8E	299	4.0b		
HRVD	VII	13 14 43 05.3±.6	7.33S±.06	126.72E±.04	313±2.4			
NEIC	Mw5.3(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c31; Half duration: 1$\hat{s}$1. Moment tensor: Scale 10^{16}Nm; M_{rr}8.41±.38; $M_{\theta\theta}$0.47±.55; $M_{\phi\phi}$−8.89±.68; $M_{r\theta}$−6.12±.71; $M_{r\phi}$0.27±.70; $M_{\theta\phi}$3.21±.57. Principal Axes: T 11.8,Plg61°,Azm173°; N −1.7, Plg28°,Azm335°; P −10.2,Plg8°,Azm69°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S188°, δ45°,λ132°. NP2:ϕ_S316°,δ59°,λ56°.							
ISC	VII	**14 15 41 03**±1.5	**7.47S**±.071	**126.6E**±.17	**295**±18	**3.8b**	**20 8-152**	
NEIC	VII	14 15 41 03.2	7.47S	126.60E	292			**¶97vii2164**
EIDC	VII	14 15 41 04.8	7.4S	126.8E	290	3.6b		
NEIC	Less reliable solution.							
ISC	VII	**15 06 26 14.7**±.88	**5.70S**±.037	**131.60E**±.036	**63**±9.5	**4.8b**	**84 4-151**	
EIDC	VII	15 06 26 08.6	5.8S	131.5E	0	4.7b,3.7s		**¶97vii2264**
BJI	VII	15 06 26 15.1	5.92S	131.61E	83	4.8b		
NEIC	VII	15 06 26 17.1	5.68S	131.63E	87	4.8b		
ISC	VII	**16 14 35 30**±1.4	**7.46S**±.043	**129.49E**±.054	**54**±14	**4.7b**,4.6s	**81 4-151**	
BJI	VII	16 14 35 21.4	8.16S	129.96E	33	4.7b,4.8s		**¶97vii2453**
EIDC	VII	16 14 35 23.9	7.4S	129.8E	0	4.6b,4.9L		
NEIC	VII	16 14 35 27.8	7.47S	129.44E	33	4.9b		
ISC	VII	**16 15 58 02.0**±.43	**6.39S**±.054	**131.0E**±.11	**33**	**4.3b**,4.3s	**34 4-151**	
EIDC	VII	16 15 57 59.4	6.4S	130.9E	0	4.3b,4.3L		**¶97vii2462**
BJI	VII	16 15 58 00.7	6.12S	130.87E	13	4.7b		
NEIC	VII	16 15 58 02.4	6.39S	131.05E	33	4.5b		
NEIC	Less reliable solution.							
ISC	VII	**17 05 52 03**±4.1	**4.9S**±.42	**128.5E**±.47	**33**	**3.9b**	**6 16-153**	
EIDC	VII	17 05 52 01.4	4.8S	129.0E	0	3.3L,3.9b		**¶97vii2551**
ISC	VII	**18 02 56 23**±1.5	**6.3S**±.12	**131.0E**±.24	**121**±52		**7 5-17**	
								¶97vii2683
EIDC	VII	**19 02 29 19.7**	**5.0S**	**130.4E**	**171**	3.4b	**15-91**	
								¶97vii2821
ISC	VII	**19 17 21 47**±2.5	**6.74S**±.079	**130.1E**±.12	**85**±26	**4.0b**	**30 6-151**	
EIDC	VII	19 17 21 47.1	6.7S	130.3E	65	3.8b,4.8L		**¶97vii2921**
BJI	VII	19 17 21 47.4	6.82S	130.05E	98	4.3b		
NEIC	VII	19 17 21 48.6	6.80S	130.12E	100	4.6b		
ISC	VII	**20 00 24 52**±1.9	**6.61S**±.070	**130.4E**±.10	**101**±21	**4.1b**	**30 6-86**	
NEIC	VII	20 00 24 47.1	6.51S	130.43E	50	4.5b		**¶97vii2977**
EIDC	VII	20 00 24 50.0	6.8S	130.1E	66	3.9b,5.0L		
ISC	VII	**20 08 11 18**±11	**7.2S**±.94	**124.4E**±.90	**150**		**6 16-130**	
EIDC	VII	20 08 11 38.8	8.0S	125.8E	171	4.0L		**¶97vii3046**
ISC	VII	**21 09 45 28**±1.7	**7.08S**±.061	**129.80E**±.077	**62**±18	**4.4b**	**48 4-151**	
EIDC	VII	21 09 45 22.1	7.0S	130.1E	0	4.3b,4.0s		**¶97vii3222**
DJA	VII	21 09 45 24.9	8.9S	129.9E	200	6.0D,5.7L		
BJI	VII	21 09 45 29.5	7.23S	129.97E	98	5.0b		
NEIC	VII	21 09 45 31.8	7.16S	129.74E	100	4.8b		
ISC	DJA magnitude values may be overestimated							
ISC	VII	**23 00 09 54**±2.7	**6.7S**±.21	**130.2E**±.23	**90**±27	3.7b	**10 3-27**	
NEIC	VII	23 00 09 54.0	6.64S	130.17E	100	3.8b		**¶97vii3457**
EIDC	VII	23 00 09 59.6	7.1S	131.0E	49	4.3L,3.8b		
NEIC	Poor solution.							
ISC	VII	**23 06 16 23**±9.5	**4.5S**±.72	**126.5E**±.92	**33**	4.0b	**4 17-31**	
EIDC	VII	23 06 16 20.4	4.4S	126.7E	0	3.8b,3.8L		**¶97vii3488**
ISC	Poorly determined							
ISC	VII	**24 07 20 07**±2.0	**5.3S**±.17	**124.6E**±.43	**450**	**4.2b**	**10 13-94**	
EIDC	VII	24 07 20 10.6	5.0S	126.0E	459	3.7b		**¶97vii3639**
ISC	VII	**28 02 10 48**±1.5	**6.75S**±.076	**129.9E**±.17	**105**±23	3.9b	**12 6-40**	
EIDC	VII	28 02 10 42.3	7.2S	128.8E	0	4.1b,4.5L		**¶97vii4196**
NEIC	VII	28 02 10 47.4	6.74S	129.85E	100	4.1b		
NEIC	Less reliable solution.							
ISC	VII	**28 06 09 35**±1.3	**6.85S**±.061	**129.8E**±.13	**156**±15	**4.2b**	**23 6-151**	
EIDC	VII	28 06 09 31.7	6.7S	130.0E	101	3.9b		**¶97vii4215**
NEIC	VII	28 06 09 35.1	6.84S	129.74E	150	4.4b		
ISC	VII	**29 15 21 27**±1.7	**6.41S**±.072	**128.8E**±.12	**240**±20	**3.9b**	**27 7-93**	
BJI	VII	29 15 21 25.6	6.09S	129.64E	242	4.1b		**¶97vii4447**
NEIC	VII	29 15 21 26.8	6.41S	128.78E	242	4.2b		
EIDC	VII	29 15 21 30.9	6.5S	128.8E	271	3.7b		
ISC	VII	**31 21 54 19.9**±.76	**6.66S**±.025	**130.92E**±.027	**43**±7.1	**5.9b,5.2s**	**565 6-167**	
MOS	VII	31 21 54 20.1	6.6S	130.9E	40	6.5b,5.0s		**¶97vii4791**
NEIC	VII	31 21 54 21.5	6.64S	130.92E	59	5.9b,5.3s		
BJI	VII	31 21 54 22.1	6.68S	131.00E	67	6.0b,5.3s		
EIDC	VII	31 21 54 26.3	6.6S	130.9E	85	5.6b,5.1s		
HRVD	VII	31 21 54 27.7±.1	6.54S±.01	131.10E±.01	82±.6			
NEIC	Mw6.0(GS), Me5.9(GS).							
NEIC	Mw 6.0 (HRV).							
NEIC	Radiated energy from the USGS moment tensor solution: 1.8±0.5×10^{13}Nm/8							
NEIC	Moment tensor solution: s20, scale 10^{18}Nm; M_{rr}0.71; $M_{\theta\theta}$−1.06; $M_{\phi\phi}$0.34; $M_{r\theta}$−0.12; $M_{r\phi}$0.28; $M_{\theta\phi}$0.41. Depth 69km; Principal axes: T 0.87,Plg59°,Azm276°; N 0.32,Plg30°, Azm109°; P −1.19,Plg6°,Azm16°. Best double couple: $M_0$1.0×10^{18}Nm; NP1:ϕ_S77°,δ47°, λ47°. NP2:ϕ_S311°,δ57°,λ126°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s60,c128; Mantle waves: s36,c53; Half duration: 2$\hat{s}$5. Moment tensor: Scale 10^{18}Nm; M_{rr}0.83±.01; $M_{\theta\theta}$−1.04±.01; $M_{\phi\phi}$0.21±.01; $M_{r\theta}$−0.23±.01; $M_{r\phi}$0.32±.01; $M_{\theta\phi}$0.54±.01. Principal Axes: T 0.96,Plg67°,Azm270°; N 0.33,Plg21°,Azm115°; P −1.29,Plg9°,Azm22°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S88°,δ40°,λ57°. NP2:ϕ_S309°,δ57°,λ115°.							
ISC	VIII	**02 17 04 34.3**±.84	**6.53S**±.078	**129.0E**±.17	**310**±11	**3.7b**	**18 3-147**	
NEIC	VIII	02 17 04 33.8	6.51S	129.01E	300	4.5b		**¶97viii0237**
EIDC	VIII	02 17 04 37.2	6.6S	128.9E	324	3.4b		
NEIC	Less reliable solution.							
ISC	VIII	**03 11 52 23**±9.0	**7.8S**±.76	**129.5E**±.36	**52**	3.6b	**4 11-26**	
EIDC	VIII	03 11 52 25.1	7.9S	129.2E	52	4.0L,3.6b		**¶97viii0358**
ISC	Poorly determined							
ISC	VIII	**04 07 06 54.9**±.68	**6.32S**±.028	**130.19E**±.034	**113**±7.0	**5.4b**	**241 6-161**	
BJI	VIII	04 07 06 53.0	6.42S	130.29E	107	5.7b		**¶97viii0471**
NEIC	VIII	04 07 06 54.3	6.26S	130.14E	110	5.5b		
MOS	VIII	04 07 06 54.6	6.3S	130.2E	109	5.6b		
EIDC	VIII	04 07 06 57.4	6.3S	130.3E	127	5.1b		
DJA	VIII	04 07 06 57.7	6.7S	130.4E	192	5.6b,4.3D		
HRVD	VIII	04 07 07 00.3±.4	6.10S±.03	130.36E±.05	130±1.4			
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c53; Half duration: 1$\hat{s}$2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.67±.04; $M_{\theta\theta}$−1.21±.05; $M_{\phi\phi}$0.54±.07; $M_{r\theta}$0.28±.04; $M_{r\phi}$0.50±.04; $M_{\theta\phi}$0.16±.05. Principal Axes: T 1.15,Plg48°,Azm282°; N 0.10, Plg41°,Azm86°; P −1.26,Plg8°,Azm183°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S309°, δ52°,λ146°. NP2:ϕ_S62°,δ64°,λ43°.							
ISC	VIII	**04 09 21 48.5**±.30	**4.44S**±.046	**129.4E**±.10	**33**	**4.6b,4.7s**	**53 9-153**	
EIDC	VIII	04 09 21 45.0	4.4S	129.4E	0	4.5b,4.4L		**¶97viii0485**
BJI	VIII	04 09 21 47.9	4.50S	129.39E	31	4.8b,5.3s		
NEIC	VIII	04 09 21 48.2	4.43S	129.31E	33	4.7b		
EIDC	VIII	**08 15 49 42.6**	**4.7S**	**127.0E**	**0**	3.6L,3.7b	**17-36**	
								¶97viii1129
ISC	VIII	**08 22 28 37.0**±.99	**6.96S**±.095	**129.2E**±.15	**33**	**3.5b**	**13 7-68**	
EIDC	VIII	08 22 28 33.9	6.9S	129.3E	0	3.7b,4.4L		**¶97viii1174**
NEIC	VIII	08 22 28 36.9	6.96S	129.21E	33	4.4b		
NEIC	Less reliable solution.							
ISC	VIII	**09 15 37 24**±3.0	**7.4S**±.14	**128.9E**±.18	**121**±34	**3.4b**	**12 6-68**	
EIDC	VIII	09 15 37 21.2	7.3S	129.0E	70	3.3b,4.2L		**¶97viii1274**
NEIC	VIII	09 15 37 22.3	7.34S	128.84E	100	3.9b		
NEIC	Less reliable solution.							
ISC	VIII	**09 15 48 36**±1.5	**5.87S**±.074	**127.6E**±.25	**392**±18	**3.6b**	**14 6-80**	
NEIC	VIII	09 15 48 35.8	5.88S	127.55E	389	3.8b		**¶97viii1275**
EIDC	VIII	09 15 48 39.9	5.8S	128.2E	414	3.3b		
NEIC	Less reliable solution.							
ISC	VIII	**10 15 19 32**±1.5	**6.01S**±.073	**127.8E**±.11	**390**±18	**4.2b**	**37 8-153**	
BJI	VIII	10 15 19 30.3	6.16S	127.54E	383	4.1b		**¶97viii1412**
NEIC	VIII	10 15 19 31.5	6.05S	127.69E	391	4.9b		
EIDC	VIII	10 15 19 33.1	6.1S	127.7E	389	3.7b		
ISC	VIII	**10 23 22 05**±4.6	**5.8S**±.22	**130.7E**±.23	**45**±43	4.0b	**12 7-151**	
EIDC	VIII	10 23 22 00.3	5.6S	130.9E	0	4.2b,5.1L		**¶97viii1476**
NEIC	VIII	10 23 22 10.9	6.04S	130.50E	100	4.5b		
NEIC	Poor solution.							
EIDC	VIII	**11 02 37 11.8**	**7.5S**	**129.7E**	**114**	3.7b	**7-150**	
								¶97viii1496
EIDC	VIII	**11 15 35 39.9**	**8.0S**	**129.5E**	**158**	3.5L,3.8b	**13-26**	
								¶97viii1579
EIDC	VIII	**12 09 07 05.9**	**5.0S**	**129.6E**	**0**	3.8L,3.8b	**4-92**	
								¶97viii1709
ISC	VIII	**13 15 32 17**±1.7	**7.6S**±.15	**129.3E**±.24	**33**	3.8b	**6 11-94**	
EIDC	VIII	13 15 32 12.3	7.5S	128.9E	0	3.9b,3.7L		**¶97viii1931**
ISC	VIII	**13 20 07 59**±1.1	**7.03S**±.047	**129.73E**±.082	**125**±12	**4.3b**	**41 4-151**	
BJI	VIII	13 20 07 55.1	7.13S	129.20E	88	4.4b		**¶97viii1952**
EIDC	VIII	13 20 07 57.2	6.9S	130.0E	86	4.1b		
NEIC	VIII	13 20 07 58.6	7.04S	129.72E	118	4.7b		
ISC	VIII	**14 15 26 41**±1.5	**5.71S**±.048	**130.99E**±.088	**68**±16	**4.1b**	**35 5-151**	
EIDC	VIII	14 15 26 35.0	5.8S	130.7E	0	4.1b,4.7L		**¶97viii2087**
BJI	VIII	14 15 26 40.5	5.99S	130.69E	69			
NEIC	VIII	14 15 26 41.8	5.71S	131.00E	71	4.5b		
ISC	VIII	**18 07 21 34**±1.8	**6.5S**±.10	**130.5E**±.21	**68**±30	4.0b	**9 6-27**	
NEIC	VIII	18 07 21 31.7	6.54S	130.48E	33	4.3b		**¶97viii2635**
EIDC	VIII	18 07 21 43.1	7.0S	131.3E	58	4.1L,3.8b		
NEIC	Less reliable solution.							
ISC	VIII	**19 16 12 16**±1.4	**6.5S**±.11	**128.9E**±.22	**318**±26	3.1b	**7 6-39**	
NEIC	VIII	19 16 12 15.2	6.50S	128.80E	300	3.8b		**¶97viii2832**
EIDC	VIII	19 16 12 20.5	6.6S	128.8E	345	3.1b		
NEIC	Less reliable solution.							
ISC	VIII	**20 12 50 22**±2.6	**7.3S**±.27	**123.2E**±.18	**299**±26		**9 4-23**	
NEIC	VIII	20 12 50 20.1	7.11S	123.11E	300	3.9b		**¶97viii2965**
NEIC	Poor solution.							
ISC	VIII	**22 13 26 15**±1.5	**6.38S**±.080	**130.3E**±.18	**123**±24	3.7b	**11 6-40**	
EIDC	VIII	22 13 25 59.1	5.4S	131.5E	0	4.4L,3.9b		**¶97viii3231**
NEIC	VIII	22 13 26 13.6	6.40S	130.21E	100	4.1b		
NEIC	Less reliable solution.							
ISC	VIII	**22 17 25 02**±1.3	**6.2S**±.10	**130.3E**±.34	**100**		**5 5-18**	
NEIC	VIII	22 17 25 01.9	6.18S	130.31E	100	3.7b		**¶97viii3258**
NEIC	Less reliable solution.							
ISC	VIII	**25 06 33 47**±1.5	**7.1S**±.15	**129.1E**±.20	**100**	3.8b	**10 9-39**	
EIDC	VIII	25 06 33 38.1	6.8S	129.2E	0	4.0b,4.3L		**¶97viii3658**
NEIC	VIII	25 06 33 55.1	7.73S	129.29E	100	4.2b		
NEIC	Poor solution.							
ISC	VIII	**25 17 56 31**±1.0	**5.9S**±.14	**128.7E**±.25	**285**±18	3.0b	**9 2-38**	
NEIC	VIII	25 17 56 30.8	5.72S	129.04E	300			**¶97viii3720**
EIDC	VIII	25 17 56 35.1	5.3S	130.0E	377	2.6b		
NEIC	Poor solution.							

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 25 19 23 13.0**±.65	**4.29S**±.071	**127.9E**±.18	**33**	**3.8b**	**14**	**1-78**
NEIC	VIII 25 19 23 12.8	4.31S	127.97E	33	4.0b		¶97viii3728
EIDC	VIII 25 19 23 15.8	4.2S	127.6E	29	3.7b		
NEIC	Less reliable solution.						
EIDC	**VIII 26 00 18 40.9**	**5.7S**	**129.5E**	**415**	3.3b		**3-148**
							¶97viii3758
ISC	**VIII 27 07 14 50**±3.0	**7.40S**±.096	**127.8E**±.12	**61**±29	**4.2b**	**26**	**11-146**
NEIC	VIII 27 07 14 46.9	7.32S	127.78E	33	4.5b		¶97viii3952
EIDC	VIII 27 07 14 52.8	7.5S	127.9E	71	3.8b,4.6L		
NEIC	Less reliable solution.						
ISC	**VIII 28 15 59 03**±2.7	**6.8S**±.14	**129.8E**±.12	**150**±28	**4.2b**	**15**	**7-39**
EIDC	VIII 28 15 58 50.9	6.6S	129.6E	0	4.2L,3.9b		¶97viii4154
NEIC	VIII 28 15 59 03.3	6.81S	129.80E	150	4.2b		
NEIC	Less reliable solution.						
ISC	**VIII 31 16 04 31**±7.0	**6.9S**±.57	**129.6E**±.26	**33**	3.2b	**8**	**9-27**
EIDC	VIII 31 16 04 36.8	7.3S	131.1E	0	3.9L,3.5b		¶97viii4677
EIDC	**IX 01 01 04 23.9**	**6.2S**	**130.0E**	**0**	3.5L,4.4b		¶97ix0015
ISC	**IX 01 03 10 45**±8.6	**6.6S**±.75	**130.3E**±.65	**200**	3.8b	**6**	**14-27**
EIDC	IX 01 03 10 48.2	6.5S	131.3E	188	3.5b		¶97ix0033
ISC	**IX 01 15 56 45**±5.3	**5.7S**±.25	**127.9E**±.30	**341**±63	**3.4b**	**10**	**12-66**
NEIC	IX 01 15 56 44.7	5.72S	127.89E	340	3.9b		¶97ix0132
EIDC	IX 01 15 56 50.1	5.9S	127.8E	388	3.2b		
NEIC	Poor solution.						
ISC	**IX 02 03 37 19.4**±.83	**6.06S**±.072	**130.7E**±.22	**33**	3.8b	**8**	**5-28**
NEIC	IX 02 03 37 19.5	6.04S	130.68E	33	4.0b		¶97ix0215
EIDC	IX 02 03 37 27.5	6.6S	132.5E	0	3.9L,4.0b		
NEIC	Less reliable solution.						
EIDC	**IX 02 16 09 19.3**	**7.4S**	**129.6E**	**76**	3.0L,3.8b		¶97ix0299
ISC	**IX 04 12 21 05**±1.9	**7.2S**±.11	**129.08E**±.096	**159**±18	**4.2b**	**27**	**9-151**
NEIC	IX 04 12 21 04.3	7.17S	129.05E	150	4.7b		¶97ix0585
EIDC	IX 04 12 21 04.5	7.2S	128.7E	142	3.8b		
NEIC	Less reliable solution.						
EIDC	**IX 04 20 22 56.5**	**5.7S**	**128.9E**	**0**	3.5L,4.2b		¶97ix0631
ISC	**IX 05 00 29 58**±2.8	**7.6S**±.36	**126.5E**±.31	**420**	4.0b	**8**	**10-128**
EIDC	IX 05 00 29 54.5	6.6S	126.9E	420	3.9b		¶97ix0657
ISC	**IX 05 23 53 05**±4.5	**7.3S**±.19	**128.7E**±.19	**62**±46	**3.9b**	**15**	**8-151**
EIDC	IX 05 23 52 59.5	7.0S	129.2E	0	4.1b,4.3L		¶97ix0819
NEIC	IX 05 23 53 08.8	7.48S	128.62E	100	4.0b		
NEIC	Less reliable solution.						
ISC	**IX 06 00 32 50.0**±.60	**6.04S**±.030	**130.61E**±.036	**151**±6.7	**5.0b**	**136**	**3-162**
BJI	IX 06 00 32 49.0	6.14S	130.79E	159	5.0b		¶97ix0824
NEIC	IX 06 00 32 49.5	6.00S	130.60E	146	5.1b		
EIDC	IX 06 00 32 53.5	6.0S	130.6E	164	4.6b,4.0s		
ISC	**IX 06 13 44 33**±1.2	**6.80S**±.054	**129.8E**±.11	**142**±14	**4.3b**	**27**	**3-93**
EIDC	IX 06 13 44 19.7	6.4S	129.9E	0	4.2b,4.7L		¶97ix0924
BJI	IX 06 13 44 31.7	6.80S	129.80E	132	4.7b		
NEIC	IX 06 13 44 31.7	6.80S	129.80E	132	4.6b		
ISC	**IX 07 17 50 49.8**±.91	**6.78S**±.081	**130.4E**±.18	**33**	3.5b	**9**	**6-40**
EIDC	IX 07 17 50 26.2	4.7S	134.8E	0	3.8b,4.3L		¶97ix1112
NEIC	IX 07 17 50 28.3	4.66S	134.98E	33	3.9b		
NEIC	Poor solution.						
ISC	**IX 07 21 11 01**±1.2	**5.70S**±.090	**130.8E**±.25	**33**		**6**	**5-18**
NEIC	IX 07 21 11 02.8	5.57S	130.57E	100	3.9b		¶97ix1126
NEIC	Less reliable solution.						
ISC	**IX 07 21 45 23**±1.8	**4.4S**±.15	**127.0E**±.35	**504**±39		**7**	**5-20**
							¶97ix1128
ISC	**IX 08 17 54 58**±3.1	**6.6S**±.14	**129.9E**±.66	**147**±46	3.6b	**7**	**6-27**
NEIC	IX 08 17 54 57.5	6.65S	129.82E	150	3.7b		¶97ix1256
EIDC	IX 08 17 55 02.3	6.8S	131.0E	120	3.8L,3.5b		
NEIC	Poor solution.						
ISC	**IX 09 00 33 26**±11	**7.2S**±.93	**129.8E**±.26	**100**		**6**	**9-19**
							¶97ix1303
ISC	**IX 09 17 16 06**±1.1	**6.79S**±.038	**130.48E**±.047	**69**±12	**4.7b**	**103**	**9-151**
EIDC	IX 09 17 16 07.7	6.7S	130.4E	65	4.2b,4.8L		¶97ix1414
BJI	IX 09 17 16 08.5	7.06S	130.63E	121	4.9b		
NEIC	IX 09 17 16 09.3	6.83S	130.46E	100	5.0b		
ISC	**IX 10 18 45 12**±2.2	**6.7S**±.16	**126.0E**±.24	**493**±35	**3.7b**	**18**	**9-120**
NEIC	IX 10 18 45 09.0	6.55S	126.06E	450	4.5b		¶97ix1562
EIDC	IX 10 18 45 13.0	6.7S	126.1E	488	3.2b		
NEIC	Less reliable solution.						
ISC	**IX 12 17 40 00**±3.0	**4.0S**±.18	**128.2E**±.47	**17**±27	**3.9b**	**9**	**0-138**
EIDC	IX 12 17 39 59.6	4.1S	128.1E	0	3.9b,3.5L		¶97ix1854
ISC	**IX 13 17 55 50**±4.9	**7.0S**±.26	**129.6E**±.27	**81**±42	**3.6b**	**9**	**9-75**
EIDC	IX 13 17 55 50.8	6.9S	129.7E	71	3.5b,3.7L		¶97ix2004
NEIC	IX 13 17 55 52.5	7.12S	129.51E	100	3.5b		
NEIC	Less reliable solution.						
EIDC	**IX 15 09 20 22.3**	**7.2S**	**123.4E**	**0**	3.2L,3.8b		¶97ix2221
ISC	**IX 15 20 31 58**±1.2	**6.53S**±.078	**129.9E**±.14	**172**±16	**4.3b**	**18**	**6-39**
EIDC	IX 15 20 31 57.7	6.9S	129.3E	134	3.7b,4.6L		¶97ix2281
NEIC	IX 15 20 31 59.0	6.51S	130.12E	184	4.6b		
NEIC	Less reliable solution.						
ISC	**IX 15 22 44 30**±1.1	**6.2S**±.14	**130.9E**±.34	**33**	**3.5b**	**9**	**10-92**
EIDC	IX 15 22 44 26.9	6.1S	131.0E	0	3.7b,4.0L		¶97ix2293
NEIC	IX 15 22 44 30.0	6.24S	130.87E	33	4.1b		
NEIC	Poor solution.						
ISC	**IX 16 06 41 02**±4.3	**7.5S**±.18	**128.5E**±.28	**78**±46	**3.9b**	**9**	**8-71**
EIDC	IX 16 06 40 55.6	7.2S	128.9E	0	4.1b,4.2L		¶97ix2345
NEIC	IX 16 06 40 58.1	7.26S	128.78E	33	3.8b		
NEIC	Poor solution.						
ISC	**IX 18 00 58 34**±7.9	**7.3S**±.81	**129.0E**±.47	**33**	3.9b	**4**	**14-28**
EIDC	IX 18 00 58 24.4	6.6S	129.2E	0	4.0L,4.3b		¶97ix2590
ISC	Poorly determined						
EIDC	LO CONF Location						
ISC	**IX 20 08 20 58**±2.1	**7.23S**±.086	**128.7E**±.12	**134**±22	**4.1b**	**32**	**4-151**
BJI	IX 20 08 21 00.1	6.81S	129.14E	144	4.8b		¶97ix2916
NEIC	IX 20 08 21 01.7	7.39S	128.66E	172	4.4b		
EIDC	IX 20 08 21 03.7	7.3S	128.7E	172	3.8b		
NEIC	Less reliable solution.						
EIDC	**IX 20 12 47 14.7**	**7.2S**	**129.4E**	**570**	2.6b		¶97ix2944
ISC	**IX 21 03 24 45**±1.1	**4.40S**±.046	**128.78E**±.078	**184**±12	**4.6b**	**43**	**4-149**
BJI	IX 21 03 24 38.3	4.81S	129.49E	181	4.6b		¶97ix3037
NEIC	IX 21 03 24 44.6	4.40S	128.80E	181	4.8b		
EIDC	IX 21 03 24 52.3	4.5S	128.8E	238	4.2b		
ISC	**IX 21 08 38 49**±1.3	**6.6S**±.10	**130.3E**±.33	**33**	3.6b	**5**	**6-27**
EIDC	IX 21 08 38 47.2	7.0S	128.9E	0	3.8L,4.0b		¶97ix3069
NEIC	IX 21 08 38 48.5	6.57S	130.43E	33	4.1b		
NEIC	Poor solution.						
ISC	**IX 21 18 39 44.1**±.89	**7.07S**±.046	**128.22E**±.067	**214**±11	**4.2b**	**46**	**7-118**
BJI	IX 21 18 39 42.8	6.89S	128.57E	204	4.7b		¶97ix3144
NEIC	IX 21 18 39 43.8	7.07S	128.23E	211	4.7b		
EIDC	IX 21 18 39 46.1	7.0S	128.3E	216	4.0b		
ISC	**IX 23 13 40 21**±1.6	**7.27S**±.071	**128.9E**±.14	**139**±20	**3.7b**	**20**	**4-81**
EIDC	IX 23 13 40 08.5	7.1S	128.6E	0	3.8b,4.3L		¶97ix3426
NEIC	IX 23 13 40 22.0	7.33S	128.96E	149	4.1b		
NEIC	Less reliable solution.						
ISC	**IX 24 22 33 02**±4.1	**7.3S**±.32	**127.0E**±.35	**286**±46	**4.0b**	**10**	**14-38**
EIDC	IX 24 22 33 11.7	7.4S	127.0E	385	3.4b		¶97ix3643
ISC	**IX 25 02 45 48**±11	**4.3S**±.84	**129.8E**±.92	**33**	3.7b	**4**	**16-30**
EIDC	IX 25 02 45 48.3	4.3S	130.4E	0	3.5L,3.8b		¶97ix3667
ISC	Poorly determined						
EIDC	**IX 25 04 21 25.3**	**7.5S**	**129.8E**	**0**	3.5L,3.9b		¶97ix3674
EIDC	**IX 25 15 54 03.3**	**4.1S**	**124.9E**	**0**	4.1b,4.2L		¶97ix3756
EIDC	**IX 26 11 03 47.3**	**7.3S**	**129.8E**	**0**	3.6L,3.7b		¶97ix3964
ISC	**IX 26 15 48 34.4**±.55	**5.37S**±.025	**128.98E**±.028	**254**±5.8	**5.7b**	**473**	**2-168**
BJI	IX 26 15 48 34.1	5.42S	128.91E	254	5.5b		¶97ix4065
NEIC	IX 26 15 48 34.2	5.39S	128.99E	254	5.8b		
MOS	IX 26 15 48 35.7	5.3S	129.0E	263	5.9b		
EIDC	IX 26 15 48 36.0	5.4S	129.0E	253	5.5b		
HRVD	IX 26 15 48 39.5±.1	5.29S±.01	129.13E±.01	268±.6			
NEIC	Me6.1(GS), Mw6.0(GS).						
NEIC	Mw 6.0 (HRV).						
NEIC	Radiated energy from the P−wave first−motion solution: 2.8±0.9×10^{13}Nm/11						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S240°,δ53°,λ50°. NP2:ϕ_S114°,δ52°,λ130°. Principal axes: T Plg59°,Azm88°; P Plg0°,Azm357°. Complex earthquake with at least one larger event occurring about 5 seconds after the onset, observed on broadband displacement seismograms.						
NEIC	Moment tensor solution: s22, scale 10^{18}Nm; M_{rr}0.78; $M_{\theta\theta}$−1.10; $M_{\phi\phi}$0.32; $M_{r\theta}$−0.05; $M_{r\phi}$−0.50; $M_{\theta\phi}$−0.50. Depth 245km; Principal axes: T 1.12,Plg54°,Azm79°; N 0.16,Plg35°, Azm247°; P −1.28,Plg6°,Azm341°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S103°,δ50°, λ139°. NP2:ϕ_S223°,δ60°,λ48°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c134; Mantle waves: s45,c71; Half duration: 2s6. Moment tensor: Scale 10^{18}Nm; M_{rr}0.96±.01; $M_{\theta\theta}$−1.17±.01; $M_{\phi\phi}$0.21±.02; $M_{r\theta}$−0.20±.01; $M_{r\phi}$−0.64±.01; $M_{\theta\phi}$−0.43±.01. Principal Axes: T 1.33,Plg60°,Azm88°; N 0.03,Plg28°,Azm245°; P −1.36,Plg10°,Azm341°. Best double couple: $M_0$1.3×10^{18}Nm, NP1:ϕ_S101°,δ43°,λ134°. NP2:ϕ_S228°,δ61°,λ57°.						
ISC	**IX 27 03 06 16**±1.3	**6.32S**±.067	**130.5E**±.18	**119**±15	**3.9b**	**19**	**2-93**
NEIC	IX 27 03 06 13.4	6.25S	130.60E	100	4.0b		¶97ix4233
EIDC	IX 27 03 06 15.3	6.2S	130.7E	104	3.8b,4.3L		
NEIC	Less reliable solution.						
ISC	**IX 27 16 46 37**±1.2	**6.91S**±.063	**128.9E**±.13	**185**±13	**4.0b**	**23**	**4-151**
NEIC	IX 27 16 46 37.0	6.92S	128.88E	182	4.1b		¶97ix4412
EIDC	IX 27 16 46 38.4	6.9S	129.0E	178	3.6b		
ISC	**IX 30 03 21 04**±1.5	**6.10S**±.090	**130.5E**±.23	**136**±25	**4.2b**	**11**	**5-40**
EIDC	IX 30 03 20 47.8	5.3S	131.4E	0	4.4b,4.3L		¶97ix5108
NEIC	IX 30 03 21 03.7	6.12S	130.44E	131	4.2b		
NEIC	Less reliable solution.						
ISC	**IX 30 08 12 32**±1.7	**7.24S**±.090	**129.6E**±.28	**145**±25	**3.8b**	**7**	**7-82**
EIDC	IX 30 08 12 18.3	6.6S	130.1E	0	4.1b,4.2L		¶97ix5169
NEIC	IX 30 08 12 32.9	7.27S	129.75E	160			
NEIC	Poor solution.						
ISC	**IX 30 21 19 34**±2.7	**5.2S**±.20	**128.5E**±.46	**474**±39	3.6b	**6**	**8-37**
							¶97ix5313
EIDC	**X 01 11 59 51.6**	**7.0S**	**128.9E**	**0**	4.2L,3.3b		¶97x0081
EIDC	**X 01 18 30 52.1**	**5.5S**	**131.0E**	**0**	4.0L,3.8b		¶97x0135
ISC	**X 02 01 36 57.4**±.88	**7.58S**±.037	**127.54E**±.049	**155**±9.7	**4.8b**	**128**	**7-159**
BJI	X 02 01 36 51.1	8.24S	128.16E	160	4.8b		¶97x0187
NEIC	X 02 01 36 57.6	7.56S	127.51E	160	4.9b		
EIDC	X 02 01 36 59.8	7.6S	127.6E	163	4.3b		
ISC	**X 02 08 14 10**±2.7	**5.3S**±.22	**126.1E**±.25	**339**±32	**3.8b**	**11**	**10-36**
EIDC	X 02 08 14 05.6	5.2S	126.2E	268	3.7b		¶97x0239
ISC	**X 02 18 32 36**±3.1	**7.05S**±.098	**125.8E**±.11	**23**±25	**4.0b**,3.4s	**21**	**6-120**
EIDC	X 02 18 32 34.7	7.1S	125.8E	0	4.1b,3.4s		¶97x0323
NEIC	X 02 18 32 37.2	7.08S	125.70E	33	4.3b		
ISC	**X 02 18 51 50**±1.2	**6.4S**±.21	**127.6E**±.65	**300**	**3.5b**	**7**	**15-94**
EIDC	X 02 18 51 50.8	6.3S	127.9E	286	3.3b		¶97x0326
ISC	**X 03 08 32 43.7**±.93	**6.9S**±.18	**129.3E**±.32	**150**	**3.7b**	**8**	**4-81**
EIDC	X 03 08 32 31.0	6.4S	129.5E	0	3.9b,4.1L		¶97x0425
ISC	**X 03 17 05 38**±1.2	**6.03S**±.049	**130.8E**±.10	**111**±14	**4.1b**	**29**	**5-81**
EIDC	X 03 17 05 28.1	5.9S	130.5E	0	4.2b,4.3L		¶97x0494
NEIC	X 03 17 05 37.5	6.02S	130.75E	100	4.2b		
BJI	X 03 17 05 42.9	5.24S	130.44E	100	4.9b		
ISC	**X 04 13 54 08**±1.9	**4.83S**±.070	**129.9E**±.13	**183**±20	**4.2b**	**28**	**8-91**
NEIC	X 04 13 54 05.1	4.78S	129.84E	150	4.5b		¶97x0657
EIDC	X 04 13 54 11.2	4.9S	130.0E	198	3.7b		
NEIC	Less reliable solution.						
ISC	**X 04 14 08 33**±7.2	**7.3S**±.58	**129.5E**±.53	**100**	3.2b	**7**	**6-27**
EIDC	X 04 14 08 34.9	7.9S	128.4E	88	3.6L,3.3b		¶97x0659
ISC	**X 05 06 58 35**±2.3	**7.4S**±.17	**128.4E**±.13	**128**±21	**4.2b**	**13**	**5-68**
EIDC	X 05 06 58 22.6	7.1S	128.8E	0	4.2b,4.3L		¶97x0822
NEIC	X 05 06 58 35.2	7.40S	128.34E	129	4.2b		
NEIC	Less reliable solution.						
ISC	**X 06 00 23 38**±1.0	**6.53S**±.046	**129.27E**±.052	**35**±11	**4.5b,3.9s**	**50**	**6-117**
BJI	X 06 00 23 32.0	7.14S	129.55E	33	4.8b		¶97x0959
EIDC	X 06 00 23 34.2	6.6S	129.2E	0	4.4b,4.0s		
NEIC	X 06 00 23 37.2	6.58S	129.25E	33	4.7b		
ISC	**X 08 20 43 31**±2.2	**7.4S**±.17	**128.4E**±.15	**197**±24	**3.7b**	**11**	**5-68**
EIDC	X 08 20 43 14.4	6.8S	128.3E	0	4.0b,4.2L		¶97x1472
NEIC	X 08 20 43 31.3	7.43S	128.41E	200	4.0b		
NEIC	Less reliable solution.						
ISC	**X 10 15 33 59**±1.1	**7.0S**±.12	**129.6E**±.22	**193**±20	4.2b	**11**	**4-27**
NEIC	X 10 15 33 58.9	6.98S	129.52E	200	4.2b		¶97x1767
EIDC	X 10 15 34 01.5	7.3S	129.5E	172	3.8b		
NEIC	Less reliable solution.						
ISC	**X 11 02 01 00**±9.1	**6.3S**±.55	**125.4E**±.88	**100**	4.0b	**4**	**16-30**
EIDC	X 11 02 01 18.6	7.0S	126.4E	176	3.7b,4.2L		¶97x1827
ISC	Poorly determined						
EIDC	LO CONF Location						
EIDC	**X 11 06 27 56.8**	**5.6S**	**131.1E**	**0**	3.3L,4.5b		¶97x1858
ISC	**X 11 17 26 57**±1.2	**7.53S**±.065	**128.3E**±.10	**169**±15	**4.1b**	**23**	**5-151**
EIDC	X 11 17 26 54.9	7.5S	128.3E	134	3.7b		¶97x1916
NEIC	X 11 17 26 56.5	7.55S	128.34E	165	4.3b		
NEIC	Less reliable solution.						
EIDC	**X 12 15 09 29.7**	**5.1S**	**130.0E**	**0**	3.3L,3.3b		¶97x2062
EIDC	**X 12 21 08 13.9**	**4.5S**	**129.7E**	**0**	3.5L,3.8b		¶97x2104
ISC	**X 13 05 20 55**±1.6	**6.71S**±.073	**130.7E**±.20	**77**±20	**4.0b**	**12**	**6-93**
EIDC	X 13 05 20 46.5	6.4S	131.0E	0	4.0b,4.9L		¶97x2165
NEIC	X 13 05 20 55.1	6.69S	130.67E	80	4.5b		
NEIC	Less reliable solution.						

ISC	X	**13 11 44 45**±1.3	**7.34S**±.060	**128.8E**±.14	**169**±16	**4.2b**	**23**	**6-118**	
BJI	X	13 11 44 44.6	7.01S	129.35E	174	4.6b			¶97x2210
EIDC	X	13 11 44 44.6	7.3S	128.9E	148	3.7b			
NEIC	X	13 11 44 45.0	7.34S	128.75E	164	4.4b			
ISC	X	**15 16 38 03**±2.6	**4.0S**±.34	**130.9E**±.57	**33**	3.0b	**7**	**9-39**	
EIDC	X	15 16 38 00.9	4.0S	130.8E	0	3.8L,3.2b			¶97x2676
ISC	X	**17 00 54 17.8**±.85	**7.33S**±.039	**128.91E**±.040	**140**±9.4	**4.9b**	**97**	**6-151**	
EIDC	X	17 00 54 16.3	7.3S	129.0E	111	4.5b			¶97x2913
BJI	X	17 00 54 16.9	7.19S	129.06E	133	4.7b			
NEIC	X	17 00 54 16.9	7.29S	128.90E	131	5.3b			
ISC	X	**17 23 23 18**±8.5	**7.6S**±.69	**129.6E**±.38	**200**	3.9b	**6**	**6-27**	¶97x3071
ISC	X	**18 22 02 38**±1.0	**6.5S**±.11	**129.7E**±.20	**33**	3.5b	**10**	**7-67**	
EIDC	X	18 22 02 35.1	6.6S	129.6E	0	3.5b,4.0L			¶97x3242
ISC	X	**20 03 54 10.6**±.73	**7.64S**±.038	**127.36E**±.044	**187**±7.7	**4.9b**	**164**	**4-156**	
BJI	X	20 03 54 03.0	8.23S	128.07E	178	5.0b			¶97x3429
NEIC	X	20 03 54 09.8	7.63S	127.33E	178	5.2b			
EIDC	X	20 03 54 10.4	7.6S	127.5E	169	4.6b			
ISC	X	**21 06 13 55**±3.2	**4.4S**±.10	**129.7E**±.16	**116**±34	**4.1b**	**20**	**11-91**	
NEIC	X	21 06 13 54.7	4.39S	129.67E	112	4.6b			¶97x3617
EIDC	X	21 06 14 08.1	4.5S	129.7E	231	3.6b			
NEIC	Less reliable solution.								
ISC	X	**22 16 19 23.1**±.92	**7.1S**±.11	**127.04E**±.088	**333**±19	**4.0b**	**17**	**7-152**	
NEIC	X	22 16 19 22.2	7.18S	127.12E	300	4.4b			¶97x3845
EIDC	X	22 16 19 26.7	7.5S	128.1E	248	3.8b			
NEIC	Less reliable solution.								
ISC	X	**22 21 48 25**±1.3	**6.13S**±.059	**130.1E**±.13	**96**±15	**4.2b**	**20**	**5-93**	
EIDC	X	22 21 48 15.9	6.0S	130.1E	0	4.3b,4.9L			¶97x3887
NEIC	X	22 21 48 24.9	6.13S	130.14E	94	4.5b			
NEIC	Less reliable solution.								
ISC	X	**23 02 02 50**±8.2	**6.4S**±.63	**130.7E**±.65	**33**	3.6b	**6**	**14-27**	
EIDC	X	23 02 02 38.2	5.9S	129.3E	0	3.9L,4.1b			¶97x3908
EIDC	LO CONF Location								
ISC	X	**23 21 34 33**±1.5	**6.4S**±.16	**129.8E**±.22	**33**	3.2b	**9**	**7-39**	
EIDC	X	23 21 34 29.4	6.2S	130.0E	0	4.1L,3.4b			¶97x4069
NEIC	X	23 21 34 32.3	6.31S	129.95E	33	4.0b			
NEIC	Poor solution.								
ISC	X	**24 04 45 52**±3.9	**5.6S**±.40	**130.4E**±.27	**250**	**4.1b**	**6**	**15-30**	
EIDC	X	24 04 45 58.4	5.9S	130.6E	276	3.6b			¶97x4110
ISC	X	**26 01 22 03**±1.7	**4.3S**±.21	**125.2E**±.54	**33**	3.2b	**4**	**14-78**	
EIDC	X	26 01 22 01.5	4.2S	125.4E	0	3.2b,3.2L			¶97x4399
ISC	Poorly determined								
ISC	X	**26 16 06 34.4**±.92	**6.79S**±.053	**129.57E**±.058	**159**±10	**4.6b**	**51**	**6-151**	
NEIC	X	26 16 06 33.9	6.77S	129.56E	152	5.0b			¶97x4494
EIDC	X	26 16 06 36.1	6.8S	129.6E	153	4.1b			
ISC	X	**27 13 40 59**±8.2	**5.8S**±.69	**130.2E**±.39	**33**	3.5b	**4**	**13-28**	
EIDC	X	27 13 40 52.3	5.4S	130.0E	0	3.6L,3.9b			¶97x4613
ISC	Poorly determined								
ISC	X	**27 21 32 27**±1.4	**6.08S**±.089	**129.1E**±.27	**246**±23	3.5b	**7**	**6-67**	
NEIC	X	27 21 32 27.2	6.05S	129.25E	256	4.0b			¶97x4661
EIDC	X	27 21 32 34.1	6.4S	128.8E	313	3.2b			
NEIC	Less reliable solution.								
ISC	X	**27 22 28 35.3**±.66	**6.50S**±.032	**129.98E**±.034	**153**±7.2	**5.0b**	**147**	**6-158**	
BJI	X	27 22 28 35.1	6.54S	130.06E	160	4.8b			¶97x4666
NEIC	X	27 22 28 35.3	6.48S	129.94E	153	5.3b			
EIDC	X	27 22 28 38.8	6.5S	130.0E	169	4.6b			
ISC	X	**28 09 04 39**±1.1	**6.40S**±.059	**130.73E**±.092	**57**±14	**4.0b**	**21**	**4-76**	
EIDC	X	28 09 04 32.6	6.2S	130.7E	0	4.2b,4.8L			¶97x4738
NEIC	X	28 09 04 39.1	6.36S	130.73E	64	4.4b			
ISC	X	**29 09 50 55**±2.3	**5.7S**±.26	**128.7E**±.44	**360**	3.2b	**4**	**13-38**	
EIDC	X	29 09 50 57.1	5.8S	128.5E	360	3.0b			¶97x4890
ISC	Poorly determined								
ISC	X	**30 17 49 06**±1.6	**7.6S**±.25	**129.3E**±.35	**0**	3.4b	**5**	**8-40**	
EIDC	X	30 17 49 08.0	7.6S	129.3E	0	4.2L,3.6b			¶97x5074
ISC	XI	**03 04 44 53**±13	**7.5S**±.91	**127.9E**±.30	**119**±50	3.8b	**10**	**7-27**	
EIDC	XI	03 04 44 57.3	7.5S	129.4E	97	4.2L,3.8b			¶97xi0407
EIDC	LO CONF Depth								
ISC	XI	**03 19 17 59.4**±.46	**6.72S**±.026	**129.03E**±.027	**221**±4.9	**5.6b**	**330**	**4-158**	
BJI	XI	03 19 17 58.5	6.69S	129.05E	212	5.4b			¶97xi0506
NEIC	XI	03 19 17 58.9	6.74S	129.02E	216	5.7b			
DJA	XI	03 19 17 59.0±.32	7.2S	129.1E	248±3.6	6.0b,5.2D			
EIDC	XI	03 19 18 00.5	6.7S	129.1E	214	5.5b			
MOS	XI	03 19 18 01.6	6.6S	128.9E	232	5.8b			
HRVD	XI	03 19 18 02.2±.2	6.72S±.02	129.11E±.02	221±1.2				
NEIC	Mw6.1(GS), Mw6.1(HRV).								
NEIC	Moment tensor solution: s14, scale 10^{18}Nm; M_{rr}0.87; $M_{\theta\theta}$−1.57; $M_{\phi\phi}$0.70; $M_{r\theta}$−0.58; $M_{r\phi}$0.54; $M_{\theta\phi}$0.66. Depth 206km; Principal axes: T 1.33,Plg50°,Azm269°; N 0.60,Plg36°, Azm118°; P −1.93,Plg14°,Azm17°. Best double couple: M0 1.6×10^{18}Nm; NP1:ϕ_S69°,δ44°, λ32°. NP2:ϕ_S315°,δ68°,λ130°.								
DJA	Error ellipse is semi−major=18.9km semi−minor=3.9km azimuth=169								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c52; Mantle waves: s32,c46; Half duration: 2s5. Moment tensor: Scale 10^{18}Nm; M_{rr}1.07±.03; $M_{\theta\theta}$−1.48±.03; $M_{\phi\phi}$0.41±.04; $M_{r\theta}$−0.58±.02; $M_{r\phi}$0.54±.03; $M_{\theta\phi}$0.45±.04. Principal Axes: T 1.40,Plg63°,Azm256°; N 0.35,Plg22°,Azm111°; P −1.75,Plg14°,Azm15°. Best double couple: M0 1.6×10^{18}Nm, NP1:ϕ_S78°,δ37°,λ51°. NP2:ϕ_S303°,δ62°,λ115°.								
ISC	XI	**03 19 57 23.0**±.85	**5.91S**±.076	**131.2E**±.12	**33**	3.5b	**11**	**2-40**	
EIDC	XI	03 19 57 20.1	5.8S	131.6E	0	3.7L,3.7b			¶97xi0512
NEIC	XI	03 19 57 24.2	5.98S	131.23E	33	3.8b			
NEIC	Less reliable solution.								
EIDC	XI	**06 01 35 23.1**	**5.5S**	**129.3E**	**0**	3.5L,3.8b			¶97xi0901
ISC	XI	**06 13 20 54**±1.3	**5.97S**±.063	**130.8E**±.10	**79**±15	**4.2b**	**24**	**5-151**	
NEIC	XI	06 13 20 54.5	5.97S	130.76E	81	4.4b			¶97xi0983
EIDC	XI	06 13 20 57.2	6.0S	130.7E	87	3.9b,4.3L			
ISC	XI	**08 19 42 36**±2.8	**7.0S**±.15	**129.6E**±.18	**125**±30	**4.2b**	**13**	**6-81**	
EIDC	XI	08 19 42 31.5	6.7S	129.9E	60	3.7b,4.2L			¶97xi1340
NEIC	XI	08 19 42 33.7	6.88S	129.59E	100	4.0b			
EIDC	LO CONF Depth								
NEIC	Less reliable solution.								
ISC	XI	**10 06 21 19**±2.1	**6.5S**±.11	**128.5E**±.15	**236**±24	**3.9b**	**16**	**7-126**	
NEIC	XI	10 06 21 24.3	6.66S	128.63E	300	4.4b			¶97xi1570
EIDC	XI	10 06 21 25.0	6.6S	128.6E	283	3.4b			
NEIC	Less reliable solution.								
ISC	XI	**10 20 52 01.9**±.95	**6.98S**±.089	**127.0E**±.17	**429**±15	**4.1b**	**14**	**3-81**	
NEIC	XI	10 20 52 01.7	6.98S	126.95E	426	4.4b			¶97xi1671
EIDC	XI	10 20 52 03.7	7.0S	127.1E	435	3.7b			
NEIC	Less reliable solution.								
ISC	XI	**11 16 27 03.0**±.68	**6.60S**±.054	**127.84E**±.058	**385**±9.3	**4.2b**	**37**	**5-81**	
DJA	XI	11 16 26 44.4±.50	8.6S	128.4E	34	5.9L,5.0D			¶97xi1822
NEIC	XI	11 16 27 03.3	6.62S	127.84E	388	4.7b			
EIDC	XI	11 16 27 05.1	6.6S	127.9E	388	3.8b			
DJA	Error ellipse is semi−major=29.6km semi−minor=6.9km azimuth=168								
ISC	XI	**14 09 53 19**±1.6	**5.1S**±.12	**130.5E**±.27	**187**±25	3.8b	**9**	**4-29**	
NEIC	XI	14 09 53 18.8	5.15S	130.49E	185	4.3b			¶97xi2271
EIDC	XI	14 09 53 21.2	5.5S	130.5E	161	3.6b			
NEIC	Less reliable solution.								
ISC	XI	**15 16 36 08**±3.5	**6.4S**±.17	**130.4E**±.17	**106**±36	**3.7b**	**14**	**7-81**	
EIDC	XI	15 16 36 21.7	6.7S	130.3E	230	3.4b			¶97xi2509
NEIC	XI	15 16 36 30.7	8.18S	130.48E	210	4.2b			
NEIC	Less reliable solution.								
ISC	XI	**16 20 59 01**±1.3	**5.36S**±.073	**129.1E**±.21	**260**±17	**3.8b**	**13**	**5-153**	
NEIC	XI	16 20 59 00.4	5.38S	129.08E	250	4.2b			¶97xi2695
EIDC	XI	16 20 59 01.6	5.3S	129.1E	246	3.6b			
NEIC	Less reliable solution.								
ISC	XI	**17 13 07 35**±1.4	**6.84S**±.076	**130.3E**±.17	**98**±23	3.6b	**12**	**6-40**	
EIDC	XI	17 13 07 27.8	6.6S	130.4E	20	3.7b,4.3L			¶97xi2802
NEIC	XI	17 13 07 34.4	6.85S	130.25E	100	4.0b			
NEIC	Less reliable solution.								
ISC	XI	**17 17 21 06**±1.2	**7.61S**±.072	**128.32E**±.076	**112**±14	**4.1b**	**26**	**6-82**	
EIDC	XI	17 17 20 52.1	7.6S	127.7E	0	4.0b,4.8L			¶97xi2838
NEIC	XI	17 17 21 01.3	7.34S	128.15E	89	4.7b			
NEIC	Less reliable solution.								
ISC	XI	**18 00 54 48**±1.3	**7.36S**±.053	**128.67E**±.089	**151**±14	**4.5b**	**64**	**6-157**	
BJI	XI	18 00 54 45.3	7.39S	128.57E	126	4.9b			¶97xi2885
NEIC	XI	18 00 54 46.0	7.31S	128.63E	129	4.5b			
EIDC	XI	18 00 54 48.4	7.4S	128.7E	135	4.2b			
ISC	XI	**18 06 56 17**±1.6	**6.0S**±.16	**129.7E**±.22	**33**	3.8b	**10**	**7-60**	
EIDC	XI	18 06 56 17.8	6.8S	128.5E	0	4.2L,3.9b			¶97xi2925
ISC	XI	**18 21 40 46**±3.4	**6.6S**±.19	**129.9E**±.18	**152**±34	**3.6b**	**12**	**7-93**	
EIDC	XI	18 21 40 30.8	6.1S	130.2E	0	3.8b,4.0L			¶97xi3066
NEIC	XI	18 21 40 45.2	6.61S	129.97E	147	4.1b			
NEIC	Poor solution.								
ISC	XI	**20 10 40 39.4**±.90	**7.44S**±.038	**128.18E**±.051	**158**±10	**4.9b**	**96**	**7-151**	
EIDC	XI	20 10 40 37.2	7.4S	128.0E	120	4.6b			¶97xi3448
BJI	XI	20 10 40 37.4	7.47S	128.06E	142	5.1b			
NEIC	XI	20 10 40 38.0	7.43S	128.18E	142	5.1b			
EIDC	XI	**21 07 37 15.5**	**4.2S**	**125.9E**	**0**	3.5b,3.6L			¶97xi3621
ISC	XI	**23 16 39 17**±1.2	**6.8S**±.18	**128.3E**±.39	**33**	**3.4b**	**7**	**9-81**	
EIDC	XI	23 16 39 13.8	6.6S	128.6E	0	3.6b,4.3L			¶97xi4152
ISC	XI	**25 19 00 30.9**±.92	**7.42S**±.051	**128.77E**±.060	**142**±11	**4.3b**	**34**	**6-151**	
EIDC	XI	25 19 00 26.8	7.3S	128.9E	93	4.0b			¶97xi4563
BJI	XI	25 19 00 29.1	7.63S	128.59E	139	4.9b			
NEIC	XI	25 19 00 30.7	7.40S	128.77E	140	4.4b			
ISC	XI	**27 23 27 27**±5.1	**7.8S**±.53	**128.1E**±.17	**174**±48		**6**	**5-17**	
NEIC	XI	27 23 27 27.3	7.92S	128.18E	150	4.0b			¶97xi4962
NEIC	Poor solution.								
ISC	XI	**28 19 59 12**±2.2	**6.9S**±.17	**129.78E**±.099	**127**±21	4.3b	**11**	**6-32**	
NEIC	XI	28 19 59 11.7	6.90S	129.77E	121	4.3b			¶97xi5135
NEIC	Less reliable solution.								
ISC	XI	**29 20 27 46**±1.2	**6.3S**±.10	**129.04E**±.098	**222**±16	**3.7b**	**11**	**4-44**	
EIDC	XI	29 20 27 36.2	6.0S	129.3E	100	3.4b			¶97xi5318
NEIC	XI	29 20 27 45.6	6.32S	129.08E	224	4.6b			
NEIC	Less reliable solution.								
NEIC	XII	**01 14 00 10.3**	**7.51S**	**128.91E**	**100**	**3.8b**		**11-27**	
EIDC	XII	01 14 00 15.4	7.8S	129.0E	103±86.9	4.0L,3.7b			¶97xii0095
NEIC	Poor solution.								
EIDC	Origin time error = 10.52Error ellipse is semi−major=71.4km semi−minor=55.6km azimuth=5								
EIDC	XII	**01 16 02 24.9**±6.08	**7.8S**	**129.1E**	**0**	4.0L,3.8b		**13-27**	¶97xii0111
EIDC	Error ellipse is semi−major=193.2km semi−minor=70.0km azimuth=76								
EIDC	XII	**01 22 03 41.9**	**7.7S**	**129.5E**	**78**±110.7	3.4L,3.7b		**13-27**	¶97xii0154
EIDC	Origin time error = 14.49Error ellipse is semi−major=183.3km semi−minor=87.7km azimuth=74								
EIDC	XII	**02 22 21 20.3**±7.05	**7.8S**	**128.3E**	**0**	3.2L,3.9b		**13-27**	¶97xii0323
EIDC	Error ellipse is semi−major=120.5km semi−minor=90.8km azimuth=71								
ISC	XII	**03 21 24 12**±2.2	**7.4S**±.12	**128.6E**±.14	**149**±23	**4.1b**	**19**	**8-151**	
BJI	XII	03 21 24 10.9	7.18S	129.10E	150	4.7b			¶97xii0504
EIDC	XII	03 21 24 11.7±5.43	7.5S	128.6E	120±50.7	3.9b			
NEIC	XII	03 21 24 12.5	7.41S	128.59E	150	4.1b			
EIDC	Error ellipse is semi−major=50.3km semi−minor=18.8km azimuth=67								
NEIC	Less reliable solution.								
ISC	XII	**04 11 59 44.0**±.46	**5.31S**±.060	**129.7E**±.10	**33**	**4.2b,3.4s**	**22**	**2-92**	
NEIC	XII	04 11 59 43.9	5.35S	129.66E	33	4.7b			¶97xii0607
EIDC	XII	04 11 59 45.8±.51	5.3S	129.8E	30±4.0	4.0b,3.4s			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=22.1km semi−minor=8.6km azimuth=78								
ISC	XII	**04 14 35 16**±4.7	**6.0S**±.19	**130.6E**±.14	**51**±52	3.7b	**9**	**10-40**	
EIDC	XII	04 14 35 11.3±1.81	5.9S	130.6E	0	4.3L,4.0b			¶97xii0629
NEIC	XII	04 14 35 14.1	5.95S	130.53E	33	4.5b			
EIDC	Error ellipse is semi−major=49.7km semi−minor=24.7km azimuth=57								
NEIC	Less reliable solution.								
ISC	XII	**06 21 06 43.6**±.71	**6.29S**±.032	**130.16E**±.037	**147**±7.8	**4.9b**	**126**	**7-158**	
DJA	XII	06 21 06 40.8±.27	6.3S	130.3E	118±8.8	6.6L,5.5b			¶97xii1529
BJI	XII	06 21 06 42.4	6.44S	130.35E	157	4.9b			
NEIC	XII	06 21 06 42.8	6.23S	130.12E	142	5.3b			
EIDC	XII	06 21 06 47.3±2.72	6.3S	130.2E	163±24.6	4.5b			
DJA	Error ellipse is semi−major=9.1km semi−minor=4.9km azimuth=168								
EIDC	Error ellipse is semi−major=23.8km semi−minor=12.4km azimuth=77								
ISC	XII	**10 00 31 25**±8.3	**6.6S**±.69	**129.9E**±.37	**100**	3.6b	**5**	**9-27**	
EIDC	XII	10 00 31 29.8	7.0S	129.7E	98±110.1	3.7L,3.7b			¶97xii2268
EIDC	Origin time error = 11.76Error ellipse is semi−major=128.0km semi−minor=52.7km azimuth=57LO CONF Depth								
ISC	XII	**13 04 15 05**±1.0	**6.52S**±.048	**128.90E**±.082	**216**±11	**4.4b**	**58**	**6-147**	
BJI	XII	13 04 15 03.2	6.12S	129.14E	182	4.5b			¶97xii2882
NEIC	XII	13 04 15 03.8	6.51S	128.84E	200	4.8b			
EIDC	XII	13 04 15 05.4±3.56	6.6S	128.9E	201±34.4	4.1b			
EIDC	Error ellipse is semi−major=28.1km semi−minor=11.4km azimuth=71								
ISC	XII	**16 21 29 22**±1.1	**4.80S**±.066	**129.42E**±.078	**222**±12	**4.4b**	**25**	**4-58**	
NEIC	XII	16 21 29 22.1	4.88S	129.45E	208	4.6b			¶97xii3509
ISC	XII	**17 07 16 20**±1.3	**7.10S**±.068	**129.2E**±.15	**191**±16	**4.3b**	**21**	**7-81**	
EIDC	XII	17 07 15 58.5±1.05	6.1S	129.9E	0	4.4b,4.5L			¶97xii3571
NEIC	XII	17 07 16 19.8	7.08S	128.95E	215	4.4b			
EIDC	Error ellipse is semi−major=182.9km semi−minor=20.0km azimuth=73								
NEIC	Less reliable solution.								
ISC	XII	**17 16 12 16**±1.4	**6.34S**±.073	**130.3E**±.12	**129**±16	**3.9b**	**22**	**6-158**	
EIDC	XII	17 16 12 12.2±5.80	6.2S	130.6E	70±56.0	3.8b,4.1L			¶97xii3629
NEIC	XII	17 16 12 13.6	6.31S	130.19E	100				
EIDC	Error ellipse is semi−major=59.5km semi−minor=21.2km azimuth=68								
NEIC	Less reliable solution.								

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**XII**	**17 21 47 53**±1.7	**6.95S**±.062	**129.87E**±.092	**96**±19	**4.3b**	**43**	**6-151**	
BJI	XII	17 21 47 54.1	6.90S	129.90E	100	4.8b			¶97xii3665
NEIC	XII	17 21 47 54.1	6.98S	129.96E	100	4.6b			
EIDC	XII	17 21 47 56.0±1.48	7.1S	129.9E	103±14.4	3.9b			
EIDC	Error ellipse is semi−major=41.0km semi−minor=14.9km azimuth=75								
ISC	**XII**	**19 07 30 19**±1.6	**7.8S**±.14	**129.5E**±.26	**150**	3.7b	**8**	**8-94**	
EIDC	XII	19 07 30 02.6±2.28	7.1S	129.3E	0	4.5L,4.0b			¶97xii3914
NEIC	XII	19 07 30 18.5	7.76S	129.57E	150				
EIDC	Error ellipse is semi−major=83.7km semi−minor=30.6km azimuth=91								
NEIC	Poor solution.								
ISC	**XII**	**24 05 50 15**±1.5	**5.82S**±.045	**125.09E**±.057	**31**±14	**4.6b,4.6s**	**86**	**6-128**	
EIDC	XII	24 05 50 12.4±.61	5.8S	125.0E	0	4.4b,4.6s			¶97xii4712
BJI	XII	24 05 50 14.8	6.18S	125.26E	52	4.8b,4.8s			
NEIC	XII	24 05 50 15.1	5.87S	125.09E	33	4.7b,4.4s			
EIDC	Error ellipse is semi−major=28.9km semi−minor=13.1km azimuth=70								
ISC	**XII**	**24 15 20 06**±1.2	**7.3S**±.14	**128.6E**±.27	**33**	**3.6b**	**7**	**8-71**	
EIDC	XII	24 15 20 02.6±1.51	7.2S	128.7E	0	3.8b,3.8L			¶97xii4781
NEIC	XII	24 15 20 05.7	7.34S	128.54E	33				
EIDC	Error ellipse is semi−major=72.8km semi−minor=20.3km azimuth=67								
NEIC	Poor solution.								
EIDC	**XII**	**24 19 24 18.3**	**4.9S**	**129.8E**	**0**	**3.9L**,4.5b		**8-29**	
									¶97xii4811
EIDC	Origin time error = 11.21Error ellipse is semi−major=165.2km semi−minor=89.4km azimuth=144								
ISC	**XII**	**25 06 51 07**±1.1	**5.38S**±.072	**129.4E**±.13	**250**±15	**4.2b**	**25**	**3-56**	
NEIC	XII	25 06 51 02.6	5.26S	129.38E	200	4.2b			¶97xii4881
EIDC	XII	25 06 51 12.7±4.99	5.6S	129.1E	286±54.5	3.7b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=52.4km semi−minor=15.7km azimuth=66								
EIDC	**XII**	**25 22 27 48.5**±1.58	**7.8S**	**127.0E**	**0**	**3.7b**,3.4L		**6-38**	
EIDC	Error ellipse is semi−major=87.2km semi−minor=22.5km azimuth=50								¶97xii4995
ISC	**XII**	**27 17 35 14**±1.8	**6.9S**±.17	**128.7E**±.37	**300**	3.6b	**5**	**12-94**	
EIDC	XII	27 17 35 13.0±5.98	6.8S	128.9E	272±70.3	3.5b			¶97xii5327
EIDC	Error ellipse is semi−major=109.1km semi−minor=26.8km azimuth=78								
ISC	**XII**	**28 03 17 42**±1.7	**6.2S**±.12	**127.5E**±.15	**418**±23	**3.9b**	**30**	**8-84**	
NEIC	XII	28 03 17 40.5	6.13S	127.60E	400	4.5b			¶97xii5385
EIDC	XII	28 03 17 43.4±3.54	6.2S	127.7E	418±40.6	3.7b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=66.1km semi−minor=12.1km azimuth=68								
EIDC	**XII**	**29 19 30 16.6**±4.88	**4.7S**	**127.1E**	**0**	3.2L,3.7b		**1-36**	
									¶97xii5624
EIDC	Error ellipse is semi−major=266.2km semi−minor=23.7km azimuth=57LO CONF Location								
ISC	**XII**	**30 00 12 50**±6.1	**5.7S**±.54	**129.5E**±.34	**200**	4.1b	**9**	**8-28**	
EIDC	XII	30 00 12 21.5	4.2S	129.5E	0	4.2L,4.2b			¶97xii5662
NEIC	XII	30 00 12 37.3	4.96S	129.76E	100	3.9b			
EIDC	Origin time error = 14.34Error ellipse is semi−major=206.3km semi−minor=59.7km azimuth=151								
NEIC	Poor solution.								
ISC	**XII**	**30 09 03 31**±1.6	**7.06S**±.077	**130.0E**±.19	**86**±25	3.7b	**11**	**6-151**	
EIDC	XII	30 09 03 21.6±1.91	6.6S	130.5E	0	3.9b,4.3L			¶97xii5710
NEIC	XII	30 09 03 31.5	7.06S	130.00E	100	4.2b			
EIDC	Error ellipse is semi−major=110.6km semi−minor=25.8km azimuth=61								
ISC	**XII**	**31 00 42 33**±1.1	**6.38S**±.062	**128.9E**±.11	**210**±12	**4.1b**	**31**	**6-93**	
NEIC	XII	31 00 42 31.8	6.36S	128.87E	200	4.1b			¶97xii5811
EIDC	XII	31 00 42 36.4±2.58	6.5S	128.8E	235±24.9	3.5b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=36.4km semi−minor=12.0km azimuth=73								

(281) Tanimbar Islands region.

EIDC	**VII**	**04 11 52 02.1**	**7.6S**	**130.9E**	**193**	3.2b		**8-26**	
									¶97vii0554
EIDC	**VII**	**07 02 25 18.2**	**6.5S**	**131.5E**	**128**	3.5L,3.8b		**14-27**	
									¶97vii0975
EIDC	**VII**	**08 13 14 09.4**	**7.4S**	**130.4E**	**71**	3.8L,4.0b		**12-26**	
									¶97vii1191
ISC	**VIII**	**04 21 35 55**±6.8	**7.5S**±.56	**130.3E**±.26	**33**	3.7b	**7**	**6-26**	
EIDC	VIII	04 21 35 56.2	7.5S	131.4E	0	3.8L,3.9b			¶97viii0556
NEIC	VIII	04 21 35 57.9	7.74S	130.46E	33	4.3b			
NEIC	Poor solution.								
EIDC	**VIII**	**12 13 00 46.7**	**7.5S**	**130.7E**	**183**	3.6b		**8-26**	
									¶97viii1752
EIDC	**VIII**	**12 14 17 39.4**	**6.9S**	**131.3E**	**121**	3.6L,3.5b		**13-27**	
									¶97viii1762
EIDC	**VIII**	**14 23 20 08.7**	**7.3S**	**132.7E**	**0**	3.6L,4.1b		**7-93**	
									¶97viii2128
ISC	**VIII**	**27 09 55 45.8**±.21	**7.35S**±.033	**130.57E**±.040	**36**±4.9*	**5.1b**,4.8s	**135**	**9-161**	
BJI	VIII	27 09 55 44.5	7.29S	130.65E	28	5.2b,5.1s			¶97viii3970
NEIC	VIII	27 09 55 45.8	7.36S	130.59E	33	5.3b			
MOS	VIII	27 09 55 46.0	7.3S	130.7E	33	5.5b			
DJA	VIII	27 09 55 47.0	7.7S	130.8E	100	6.4L,5.3D			
EIDC	VIII	27 09 55 49.0	7.3S	130.7E	44	4.7b,4.7L			
HRVD	VIII	27 09 55 54.1±1.1	7.27S±.09	130.84E±.09	60±6.1				
ISC	DJA magnitude calculations may be overestimated								
NEIC	Mw5.1(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c31; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}5.03±.51; $M_{\theta\theta}$−5.07±.56; $M_{\phi\phi}$0.03±.97; $M_{r\theta}$1.46±.91; $M_{r\phi}$1.76±.83; $M_{\theta\phi}$1.46±.50. Principal Axes: T 5.90,Plg69°,Azm298°; N −0.35, Plg20°,Azm101°; P −5.55,Plg6°,Azm193°. Best double couple: $M_0$5.7×10^{16}Nm, NP1: ϕ_S304°,δ43°,λ121°. NP2:ϕ_S85°,δ54°,λ64°.								
ISC	**VIII**	**30 05 15 00**±7.7	**7.3S**±.66	**130.3E**±.24	**33**	4.2b	**6**	**12-27**	
									¶97viii4430
ISC	**IX**	**10 06 13 01.8**±.94	**6.59S**±.087	**133.0E**±.14	**33**	**4.1b**	**15**	**6-44**	
EIDC	IX	10 06 12 59.2	6.6S	132.7E	0	4.4L,4.0b			¶97ix1482
NEIC	IX	10 06 13 01.7	6.66S	132.84E	33	4.3b			
NEIC	Less reliable solution.								
EIDC	**IX**	**21 11 35 08.0**	**7.5S**	**130.8E**	**93**	4.0L,3.9b			¶97ix3093
ISC	**IX**	**21 17 27 20**±7.1	**7.8S**±.58	**131.3E**±.26	**33**	3.4b	**6**	**12-26**	
EIDC	IX	21 17 27 18.2	7.6S	132.3E	0	3.7L,3.6b			¶97ix3136
NEIC	IX	21 17 27 20.7	7.86S	131.32E	33	4.0b			
NEIC	Poor solution.								
EIDC	**IX**	**25 09 03 46.2**	**7.0S**	**132.0E**	**0**	4.2L,4.1b			¶97ix3714
EIDC	**IX**	**26 07 42 51.9**	**6.2S**	**132.6E**	**0**	3.4L,3.9b			¶97ix3914
ISC	**IX**	**28 02 49 39.3**±.97	**7.5S**±.12	**130.4E**±.21	**33**	**3.8b**	**12**	**6-68**	
EIDC	IX	28 02 49 36.7	7.5S	130.1E	0	4.0b,4.5L			¶97ix4518
EIDC	**IX**	**29 08 44 27.8**	**7.1S**	**130.3E**	**56**	4.0L,3.3b			¶97ix4915
EIDC	**X**	**01 16 08 47.6**	**7.2S**	**130.1E**	**204**	3.5b			¶97x0117
ISC	**X**	**02 06 45 08**±1.3	**7.8S**±.12	**131.1E**±.23	**33**	3.8b	**8**	**5-26**	
									¶97x0224
EIDC	**X**	**09 14 05 23.3**	**7.8S**	**130.6E**	**0**	3.2L,4.2b			¶97x1593
EIDC	**X**	**15 12 59 37.0**	**6.9S**	**131.3E**	**0**	3.1L			¶97x2640
ISC	**X**	**23 04 39 06**±6.7	**7.5S**±.58	**130.1E**±.22	**150**	3.5b	**8**	**11-27**	
EIDC	X	23 04 39 00.6	7.1S	129.9E	105	3.7L,3.4b			¶97x3926
EIDC	LO CONF Depth LO CONF Location								
ISC	**X**	**23 07 06 24.8**±.44	**6.56S**±.056	**131.11E**±.072	**33**	**4.4b**,3.2s	**33**	**8-146**	
BJI	X	23 07 06 20.7	6.56S	131.91E	46	4.4b			¶97x3941
EIDC	X	23 07 06 22.9	6.7S	130.8E	0	4.4b,4.7L			
NEIC	X	23 07 06 26.4	6.71S	131.32E	33	4.8b			
EIDC	**XI**	**17 08 26 25.2**	**7.9S**	**130.0E**	**0**	3.5L,3.8b			¶97xi2764
ISC	**XI**	**22 12 36 25**±1.5	**6.24S**±.057	**131.3E**±.11	**40**±16	**4.4b**	**27**	**5-151**	
EIDC	XI	22 12 36 20.3	6.2S	131.3E	0	4.3b,4.7L			¶97xi3875
BJI	XI	22 12 36 23.6	6.49S	130.76E	33				
NEIC	XI	22 12 36 23.8	6.23S	131.33E	33	4.6b			
EIDC	Multiple, mixed az								
NEIC	Less reliable solution.								
ISC	**XI**	**23 17 10 44**±4.0	**8.8S**±.33	**130.3E**±.25	**33**	3.7b	**7**	**7-25**	
EIDC	XI	23 17 10 40.1	8.6S	130.3E	0	4.0L,3.9b			¶97xi4159
EIDC	Multiple, same az								

(282) South of Java.

ISC	**VII**	**01 09 12 17**±7.8	**9.7S**±.62	**113.5E**±.24	**33**		**5**	**1-3**	
									¶97vii0056
ISC	**VII**	**02 13 16 49**±3.5	**9.1S**±.19	**111.1E**±.32	**33**	**3.7b**	**10**	**2-36**	
EIDC	VII	02 13 17 08.9	9.8S	113.7E	0	3.7b			¶97vii0246
ISC	**VII**	**05 08 25 55.5**±.95	**9.3S**±.15	**109.01E**±.089	**33**	**3.8b**	**12**	**3-38**	
DJA	VII	05 08 25 54.4	9.7S	108.9E	33	5.4L,4.7D			¶97vii0703
EIDC	VII	05 08 26 18.8	6.9S	108.1E	494	3.2b			
ISC	DJA magnitude values may be overestimated								
DJA	**VII**	**08 00 50 20.6**	**9.1S**	**113.6E**	**100**	**4.4D,4.4L**		**1-9**	
									¶97vii1111
ISC	**VII**	**09 12 06 01**±1.9	**9.7S**±.14	**113.7E**±.19	**84**±20	**3.4b**	**9**	**1-34**	
EIDC	VII	09 12 05 51.4	10.2S	113.2E	0	3.6b			¶97vii1334
DJA	VII	09 12 06 01.9	9.7S	113.7E	80	5.3L,4.6D			
ISC	DJA magnitude values may be overestimated								
ISC	**VII**	**10 13 10 47**±1.5	**10.77S**±.032	**113.62E**±.036	**31**±11	**5.1b,4.7s**	**192**	**2-153**	
MOS	VII	10 13 10 47.7	10.7S	113.7E	33	5.5b,4.7s			¶97vii1514
BJI	VII	10 13 10 47.8	10.66S	113.74E	32	5.3b,4.9s			
NEIC	VII	10 13 10 48.1	10.75S	113.72E	33	5.1b,4.9s			
EIDC	VII	10 13 10 51.3	10.6S	113.7E	46	4.7b			
DJA	VII	10 13 10 51.6	10.5S	113.5E	93	5.4b,5.1D			
HRVD	VII	10 13 10 54.7±.5	10.56S±.03	113.95E±.05	59±2.7				
NEIC	Mw5.3(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s38,c60; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.54±.05; $M_{\theta\theta}$1.31±.05; $M_{\phi\phi}$−0.77±.10; $M_{r\theta}$0.34±.06; $M_{r\phi}$−0.19±.06; $M_{\theta\phi}$−0.33±.05. Principal Axes: T 1.43,Plg11°,Azm10°; N −0.55, Plg62°,Azm120°; P −0.88,Plg25°,Azm275°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S55°,δ64°,λ−169°. NP2:ϕ_S320°,δ80°,λ−26°.								
ISC	**VII**	**12 22 01 35.4**±.75	**9.14S**±.053	**110.56E**±.048	**65**±7.1	**4.5b**	**87**	**4-152**	
EIDC	VII	12 22 01 28.8	9.1S	110.5E	0	4.6b,4.6s			¶97vii1872
BJI	VII	12 22 01 31.9	9.16S	110.56E	34	4.8b,4.8s			
NEIC	VII	12 22 01 32.1	9.05S	110.67E	33	4.4b			
DJA	VII	12 22 01 33.0	9.1S	110.5E	200	5.7L,5.1D			
ISC	DJA magnitude values may be overestimated								
ISC	**VII**	**12 22 05 59**±1.7	**9.7S**±.25	**110.6E**±.36	**33**	**4.1b**	**8**	**25-69**	
NEIC	VII	12 22 05 59.4	9.68S	110.57E	33				¶97vii1874
EIDC	VII	12 22 06 00.2	9.8S	110.4E	26	4.0b			
NEIC	Poor solution.								
ISC	**VII**	**12 22 09 32.7**±.93	**9.13S**±.096	**110.49E**±.066	**74**±9.9	**4.1b**	**21**	**4-81**	
EIDC	VII	12 22 09 26.8	9.1S	110.7E	0	4.3b			¶97vii1875
NEIC	VII	12 22 09 28.3	9.14S	110.49E	33	4.1b			
DJA	VII	12 22 09 33.7	9.1S	110.6E	74	5.1L,4.7D			
ISC	DJA magnitude values may be overestimated								
NEIC	Less reliable solution.								
ISC	**VII**	**12 22 36 08.2**±.92	**9.1S**±.11	**110.51E**±.062	**77**±8.6	**4.1b**	**33**	**4-148**	
NEIC	VII	12 22 36 03.7	9.08S	110.51E	33	3.9b			¶97vii1879
DJA	VII	12 22 36 06.0	9.6S	110.4E	100	5.2L,4.8D			
EIDC	VII	12 22 36 10.6	9.1S	110.6E	78	4.0b,4.4s			
ISC	DJA magnitude values may be overestimated								
NEIC	Less reliable solution.								
ISC	**VII**	**12 22 49 21.0**±.75	**9.06S**±.049	**110.51E**±.047	**68**±7.2	**4.7b**	**115**	**4-155**	
EIDC	VII	12 22 49 13.7	9.1S	110.5E	0	4.7b,4.8s			¶97vii1880
DJA	VII	12 22 49 15.8	9.7S	110.4E	200	5.8L,4.9D			
BJI	VII	12 22 49 16.1	9.23S	110.38E	33	5.0b,4.9s			
NEIC	VII	12 22 49 17.1	9.05S	110.53E	33	4.6b,4.9s			
HRVD	VII	12 22 49 26.0±.3	9.24S±.03	110.31E±.05	50±3.1				
NEIC	Mw5.3(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c57; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}8.86±.50; $M_{\theta\theta}$−9.27±.39; $M_{\phi\phi}$0.41±.73; $M_{r\theta}$3.52±.78; $M_{r\phi}$−4.84±.82; $M_{\theta\phi}$2.96±.71. Principal Axes: T 11.3,Plg67°,Azm75°; N 0.0, Plg18°,Azm295°; P −11.3,Plg14°,Azm200°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S267°,δ35°,λ57°. NP2:ϕ_S125°,δ61°,λ111°.								
ISC	**VII**	**12 22 51 47**±1.2	**10.9S**±.16	**111.0E**±.26	**33**	**4.1b**	**9**	**24-71**	
EIDC	VII	12 22 51 44.4	10.9S	111.1E	0	4.1b			¶97vii1881
NEIC	VII	12 22 51 47.4	10.87S	110.98E	33	4.1b			
NEIC	Poor solution.								
EIDC	**VII**	**12 23 13 39.5**	**11.2S**	**112.4E**	**0**	**3.7b**		**12-34**	
									¶97vii1884
ISC	**VII**	**12 23 25 03**±1.2	**9.1S**±.15	**110.7E**±.14	**100**	**3.8b**	**11**	**3-69**	
EIDC	VII	12 23 24 53.3	9.2S	110.5E	0	3.9b			¶97vii1886
ISC	**VII**	**13 01 26 33**±1.4	**9.4S**±.11	**113.06E**±.094	**82**±12	**3.9b**	**23**	**1-147**	
DJA	VII	13 01 26 14.7	9.7S	111.6E	80	5.8L,4.6D			¶97vii1902
EIDC	VII	13 01 26 26.4	9.3S	113.4E	0	4.0b,3.7s			
NEIC	VII	13 01 26 29.0	9.22S	113.33E	33	4.3b			
ISC	DJA magnitude values may be overestimated								
NEIC	Less reliable solution.								
ISC	**VII**	**13 04 51 33**±1.4	**9.1S**±.15	**110.8E**±.11	**103**±12	**4.0b**	**20**	**3-142**	
DJA	VII	13 04 51 23.0	10.2S	110.2E	100	5.0L,4.6D			¶97vii1924
EIDC	VII	13 04 51 23.7	9.0S	111.0E	0	4.1b			
NEIC	VII	13 04 51 26.8	8.97S	111.02E	33				
ISC	DJA magnitude values may be overestimated								
NEIC	Single network solution.								
ISC	**VII**	**13 08 55 24**±1.1	**9.0S**±.15	**110.56E**±.073	**69**±10	**4.2b**	**19**	**4-148**	
EIDC	VII	13 08 55 18.0	8.9S	110.8E	0	4.2b,3.6s			¶97vii1951
NEIC	VII	13 08 55 21.2	8.88S	110.84E	33				
DJA	VII	13 08 55 23.8	9.1S	110.5E	80	5.0L,4.7D			
ISC	DJA magnitude values may be overestimated								
NEIC	Poor solution.								

ISC	**VII**	**13 08 58 04**±1.6	**9.2S**±.23	**110.51E**±.096	**51**±20	**3.6b**	**8**	**4-49**		
DJA	VII	13 08 57 57.3	10.4S	110.3E	28	4.9L		¶97vii1952		
EIDC	VII	13 08 58 13.7	8.2S	113.1E	0	3.6b				
ISC	**VII**	**13 14 34 10.3**±.83	**9.12S**±.068	**110.56E**±.054	**74**±7.8	**4.3b**	**57**	**4-149**		
DJA	VII	13 14 34 05.7	9.9S	110.3E	80	5.4L,4.8D		¶97vii1978		
NEIC	VII	13 14 34 06.3	9.02S	110.65E	33	4.6b				
BJI	VII	13 14 34 07.6	8.83S	110.78E	34	4.7b,4.6s				
EIDC	VII	13 14 34 14.7	9.1S	110.7E	96	4.1b,4.2s				
ISC	DJA magnitude values may be overestimated									
NEIC	Less reliable solution.									
ISC	**VII**	**13 15 02 06**±1.0	**9.1S**±.12	**110.50E**±.068	**70**±10	**3.8b**	**18**	**4-82**		
EIDC	VII	13 15 01 59.6	9.1S	110.6E	0	4.0b		¶97vii1983		
DJA	VII	13 15 02 02.0	9.9S	110.3E	33	4.9L,4.8D				
NEIC	VII	13 15 02 02.8	8.97S	110.69E	33	3.5b				
NEIC	Less reliable solution.									
ISC	**VII**	**13 16 36 20**±1.5	**9.1S**±.14	**110.5E**±.10	**80**±13	**3.8b**	**16**	**4-142**		
EIDC	VII	13 16 36 05.7	9.3S	109.5E	0	4.0b		¶97vii1997		
NEIC	VII	13 16 36 08.5	9.39S	109.42E	33	3.7b				
NEIC	Poor solution.									
EIDC	**VII**	**14 14 04 35.0**	**11.0S**	**112.5E**	**0**	**3.7b**		**3-34**		
								¶97vii2146		
ISC	**VII**	**14 14 36 03**±1.2	**9.4S**±.12	**110.3E**±.12	**33**	**4.1b**	**13**	**3-69**		
EIDC	VII	14 14 36 01.5	9.4S	110.5E	0	4.2b		¶97vii2151		
NEIC	VII	14 14 36 03.2	9.42S	110.27E	33	3.8b				
NEIC	Less reliable solution.									
ISC	**VII**	**16 18 35 49**±5.8	**9.1S**±.54	**113.5E**±.21	**15**		**5**	**1-3**		
DJA	VII	16 18 35 47.0	9.1S	113.2E	15	4.9D,4.7L		¶97vii2477		
DJA	**VII**	**25 05 16 48.4**	**9.1S**	**112.8E**	**33**	4.9D,**4.1L**		**1-3**		
								¶97vii3777		
ISC	**VII**	**25 19 06 55**±2.2	**9.6S**±.12	**113.9E**±.28	**33**		**5**	**1-18**		
DJA	VII	25 19 06 55.3	9.6S	113.8E	33	5.1L,4.6D		¶97vii3864		
ISC	DJA magnitude values may be overestimated									
ISC	**VII**	**27 21 49 43**±2.0	**10.78S**±.054	**113.19E**±.058	**28**±16	**4.2b**,4.2s	**47**	**2-148**		
EIDC	VII	27 21 49 41.1	10.7S	113.4E	0	4.3b,3.5s		¶97vii4167		
DJA	VII	27 21 49 45.0	10.7S	113.3E	136	5.2L,4.7b				
NEIC	VII	27 21 49 45.4	10.69S	113.24E	41	4.2b				
BJI	VII	27 21 49 46.2	10.47S	113.50E	41	5.0b,4.9s				
ISC	**VII**	**28 12 15 50**±7.3	**9.4S**±.62	**113.5E**±.25	**33**		**4**	**1-3**		
DJA	VII	28 12 15 50.8	9.4S	113.4E	33	4.7D,4.4L		¶97vii4269		
ISC	Poorly determined									
ISC	**VII**	**29 15 42 45**±3.0	**9.08S**±.066	**106.43E**±.092	**21**±21	**4.5b,3.5s**	**53**	**2-154**		
DJA	VII	29 15 42 42.9	9.3S	106.2E	100	5.9L,4.6D		¶97vii4449		
NEIC	VII	29 15 42 47.2	8.99S	106.51E	39	4.4b				
BJI	VII	29 15 42 47.9	8.95S	106.57E	35	4.9b				
EIDC	VII	29 15 42 48.9	9.0S	106.4E	39	4.2b,3.5s				
ISC	DJA magnitude values may be overestimated									
DJA	**VIII**	**03 04 49 37.9**	**10.0S**	**110.5E**	**33**	**4.7D,4.7L**		**4-6**		
								¶97viii0299		
ISC	**VIII**	**04 09 03 27**±1.1	**9.3S**±.14	**107.4E**±.12	**33**	**4.0b**	**11**	**2-39**		
NEIC	VIII	04 09 03 25.6	9.07S	107.33E	33	4.1b		¶97viii0481		
DJA	VIII	04 09 03 34.9	8.4S	107.8E	33	5.1L,4.5D				
EIDC	VIII	04 09 03 39.9	3.4N	129.1E	0	3.8b				
NEIC	Poor solution.									
ISC	**VIII**	**08 00 39 54.3**±.83	**11.13S**±.057	**113.5E**±.14	**42**±.7*	**4.0b**	**16**	**3-71**		
NEIC	VIII	08 00 39 53.7	11.14S	113.40E	33	3.9b		¶97viii1026		
EIDC	VIII	08 00 39 58.0	11.0S	113.2E	40	3.9b				
NEIC	Less reliable solution.									
ISC	**VIII**	**13 21 20 16**±8.2	**9.6S**±.21	**110.7E**±.42	**31**±56	**3.7b**	**14**	**3-142**		
NEIC	VIII	13 21 20 22.1	9.70S	111.46E	33	3.9b		¶97viii1960		
EIDC	VIII	13 21 21 13.1	9.1S	112.4E	656	2.7b				
NEIC	Less reliable solution.									
DJA	**VIII**	**13 21 56 24.1**	**9.8S**	**110.3E**	**118**	4.5D,4.4L		**4-6**		
								¶97viii1965		
ISC	**VIII**	**13 22 41 52**±1.5	**9.2S**±.12	**110.5E**±.10	**62**±13	**4.3b**	**18**	**3-69**		
EIDC	VIII	13 22 41 47.6	9.0S	110.8E	0	4.4b		¶97viii1970		
NEIC	VIII	13 22 41 48.1	9.29S	110.23E	33	4.2b				
DJA	VIII	13 22 41 48.9	10.2S	110.5E	33	5.2L,4.5D				
ISC	DJA magnitude calculations may be overestimated									
NEIC	Less reliable solution.									
ISC	**VIII**	**14 12 46 26.0**±.49	**10.81S**±.062	**112.28E**±.064	**33**	**4.3b**,3.3s	**30**	**3-142**		
EIDC	VIII	14 12 46 21.5	11.1S	112.0E	0	4.3b,3.3s		¶97viii2060		
NEIC	VIII	14 12 46 27.2	10.71S	112.60E	33	4.2b				
DJA	VIII	14 12 46 27.6	10.2S	112.2E	193	5.4L,4.4D				
ISC	DJA magnitude calculations may be overestimated									
NEIC	Less reliable solution.									
ISC	**VIII**	**18 09 46 00**±1.0	**9.92S**±.089	**105.6E**±.11	**100**	**3.8b**	**23**	**3-146**		
DJA	VIII	18 09 45 50.9	10.2S	104.9E	100	5.8L,4.3D		¶97viii2656		
EIDC	VIII	18 09 45 51.8	10.6S	105.2E	0	4.0b				
NEIC	VIII	18 09 45 55.2	10.43S	105.37E	33	4.5b				
ISC	DJA magnitude calculations may be overestimated									
NEIC	Less reliable solution.									
DJA	**VIII**	**24 13 45 29.6**	**9.3S**	**113.9E**	**80**	**4.7D**,4.5L		**1-2**		
								¶97viii3542		
ISC	**VIII**	**29 00 00 54**±3.4	**9.1S**±.42	**109.1E**±.14	**39**±49	**3.8b**	**13**	**3-38**		
EIDC	VIII	29 00 00 48.9	8.7S	109.1E	0	4.1b,3.3s		¶97viii4203		
DJA	VIII	29 00 00 54.6	9.2S	109.1E	33	5.1L,4.6D				
ISC	DJA magnitude calculations may be overestimated									
ISC	**IX**	**04 07 53 34**±1.1	**10.5S**±.10	**113.37E**±.098	**33**	**3.5b**	**10**	**2-32**		
DJA	IX	04 07 53 31.4	10.8S	113.4E	33	5.3L,4.6D		¶97ix0565		
EIDC	IX	04 07 53 31.8	11.4S	113.0E	0	3.5b				
ISC	**IX**	**05 02 04 51**±2.7	**9.97S**±.080	**109.28E**±.070	**19**±21	**4.1b**	**23**	**3-73**		
EIDC	IX	05 02 04 50.1	10.0S	109.4E	0	4.2b		¶97ix0669		
DJA	IX	05 02 04 51.1	10.2S	109.2E	23	5.6L,4.8D				
BJI	IX	05 02 04 51.2	10.48S	110.05E	62	4.6b				
NEIC	IX	05 02 04 52.8	9.92S	109.44E	33	4.1b				
NEIC	Less reliable solution.									
ISC	**IX**	**05 07 45 59.7**±.78	**9.4S**±.13	**111.30E**±.072	**33**	**3.8b**	**13**	**3-66**		
DJA	IX	05 07 45 57.2	9.2S	111.3E	210	5.1L,4.7D		¶97ix0710		
EIDC	IX	05 07 46 02.2	10.2S	111.6E	0	3.9b				
ISC	**IX**	**11 01 24 48**±7.6	**9.5S**±.64	**113.5E**±.27	**33**		**4**	**1-3**		
DJA	IX	11 01 24 46.2	9.6S	113.3E	33	4.8D,4.6L		¶97ix1608		
ISC	Poorly determined									
DJA	**IX**	**14 17 22 18.5**	**9.5S**	**113.4E**	**15**	**5.0L,4.8D**		¶97ix2151		
ISC	**IX**	**15 03 49 53**±4.2	**9.2S**±.57	**108.6E**±.24	**33**		**5**	**2-7**		
DJA	IX	15 03 49 54.1	9.1S	108.7E	33	5.0L,4.5D		¶97ix2200		
ISC	**IX**	**18 09 40 58.5**±.63	**10.55S**±.061	**107.31E**±.086	**33**	**4.0b**	**26**	**4-146**		
EIDC	IX	18 09 40 57.0	10.8S	107.4E	0	4.2b		¶97ix2642		
NEIC	IX	18 09 40 59.2	10.57S	107.40E	33	4.2b				
NEIC	Less reliable solution.									
ISC	**IX**	**22 00 03 28**±1.5	**10.01S**±.096	**113.6E**±.15	**33**	**3.6b**	**10**	**2-69**		
EIDC	IX	22 00 03 22.9	11.6S	112.5E	0	3.8b		¶97ix3190		
NEIC	IX	22 00 03 27.8	10.01S	113.60E	33	3.1b				
NEIC	Less reliable solution.									
ISC	**IX**	**24 16 56 16**±1.1	**9.4S**±.12	**110.73E**±.069	**48**±17	**3.7b**	**13**	**4-49**		
DJA	IX	24 16 56 13.3	10.0S	110.7E	33	5.1L,4.6D		¶97ix3605		
NEIC	IX	24 16 56 14.7	9.48S	110.72E	33	4.1b				
EIDC	IX	24 16 56 30.2	10.8S	112.4E	0	3.7b				
EIDC	**IX**	**28 04 57 53.3**	**10.2S**	**110.1E**	**0**	**3.4b**,3.3s		¶97ix4545		
ISC	**X**	**12 23 07 12.0**±.85	**9.47S**±.071	**112.83E**±.052	**70**±9.5	**4.2b**	**35**	**2-148**		
EIDC	X	12 23 07 04.8	9.6S	112.8E	0	4.3b,3.9s		¶97x2120		
NEIC	X	12 23 07 09.3	9.63S	112.82E	33	4.4b				
DJA	X	12 23 07 13.0	9.3S	112.8E	65	5.2L,4.9b				
ISC	**X**	**12 23 27 46.8**±.96	**9.46S**±.066	**112.88E**±.060	**61**±9.2	**4.3b**	**41**	**2-147**		
EIDC	X	12 23 27 41.2	9.3S	113.0E	0	4.3b,3.7s		¶97x2122		
NEIC	X	12 23 27 46.6	9.44S	112.87E	60	4.6b				
BJI	X	12 23 27 46.7	9.31S	112.98E	56	5.0b				
DJA	X	12 23 27 49.0	9.2S	112.9E	80	5.3L,4.7D				
ISC	**X**	**12 23 48 13**±1.1	**9.66S**±.083	**112.7E**±.12	**33**	**3.7b**,3.7s	**13**	**2-35**		
EIDC	X	12 23 48 10.4	9.7S	112.7E	0	3.7b,3.7s		¶97x2127		
NEIC	X	12 23 48 12.9	9.64S	112.72E	33	3.9b				
NEIC	Less reliable solution.									
ISC	**X**	**13 03 07 35**±6.1	**9.7S**±.26	**112.6E**±.62	**33**	**3.7b**	**10**	**2-35**		
NEIC	X	13 03 07 36.7	9.70S	112.80E	33	3.8b		¶97x2150		
EIDC	X	13 03 07 38.0	10.3S	112.9E	0	3.6b				
NEIC	Poor solution.									
EIDC	LO CONF Location									
ISC	**X**	**13 04 46 21**±1.3	**9.70S**±.097	**113.1E**±.15	**33**	**3.7b**	**14**	**2-95**		
EIDC	X	13 04 46 17.0	9.3S	113.1E	0	3.9b		¶97x2162		
NEIC	X	13 04 46 19.6	9.64S	112.90E	33	3.8b				
NEIC	Less reliable solution.									
ISC	**X**	**13 20 08 59**±1.3	**9.57S**±.099	**112.6E**±.12	**33**	**3.6b**	**14**	**2-35**		
EIDC	X	13 20 08 59.0	8.8S	113.6E	0	3.6b		¶97x2278		
NEIC	X	13 20 08 59.6	9.54S	112.66E	33	3.8b				
NEIC	Less reliable solution.									
ISC	**X**	**14 11 52 56**±1.3	**11.8S**±.16	**113.5E**±.22	**51**	**3.6b**	**6**	**11-33**		
EIDC	X	14 11 52 57.5	11.9S	113.4E	51	3.5b		¶97x2397		
EIDC	**X**	**14 17 24 53.0**	**10.9S**	**112.8E**	**0**	**3.4b**		¶97x2457		
ISC	**X**	**19 05 55 21**±5.9	**9.6S**±.98	**111.82E**±.096	**33**		**6**	**3-6**		
DJA	X	19 05 55 23.2	9.4S	111.8E	33	5.2L,4.5D		¶97x3300		
EIDC	**X**	**23 11 58 02.4**	**10.3S**	**112.5E**	**0**	**3.3b**		¶97x3989		
DJA	**X**	**24 13 41 44.3**	**11.0S**	**113.6E**	**16**	**4.9L**		¶97x4175		
DJA	**X**	**25 05 00 55.3**	**9.7S**	**113.7E**	**33**	5.1D,4.0L		¶97x4274		
ISC	**X**	**25 18 33 36**±1.4	**10.60S**±.078	**112.85E**±.092	**55**±13	**4.3b**	**26**	**3-141**		
EIDC	X	25 18 33 30.2	10.6S	112.7E	0	4.3b		¶97x4355		
BJI	X	25 18 33 36.4	10.60S	112.80E	63					
NEIC	X	25 18 33 36.4	10.58S	112.83E	63	4.0b				
NEIC	Less reliable solution.									
ISC	**X**	**25 19 17 00**±3.2	**8.1S**±.24	**106.5E**±.19	**33**		**6**	**1-8**		
NEIC	X	25 19 17 00.2	8.01S	106.58E	33			¶97x4361		
NEIC	Less reliable solution.									
ISC	**XI**	**04 10 00 34**±7.8	**9.7S**±.65	**113.7E**±.23	**80**		**5**	**1-3**		
DJA	XI	04 10 00 34.1±.97	9.7S	113.6E	80	5.0D,4.0L		¶97xi0611		
DJA	Error ellipse is semi-major=23.8km semi-minor=21.3km azimuth=104									
ISC	**XI**	**04 22 22 24**±13	**10.6S**±.97	**113.4E**±.34	**33**		**5**	**2-3**		
								¶97xi0697		
ISC	**XI**	**07 05 34 18**±8.2	**10.0S**±.65	**112.7E**±.28	**15**		**7**	**2-7**		
DJA	XI	07 05 34 22.4±.78	9.7S	112.7E	15	5.1D,5.1L		¶97xi1080		
DJA	Error ellipse is semi-major=28.6km semi-minor=9.4km azimuth=179									
ISC	**XI**	**19 19 17 11.3**±.72	**10.64S**±.073	**113.2E**±.13	**33**	**3.7b**	**13**	**3-34**		
EIDC	XI	19 19 17 10.1	10.3S	113.6E	0	3.8b		¶97xi3295		
NEIC	XI	19 19 17 11.2	10.63S	113.22E	33	3.9b				
NEIC	Less reliable solution.									
ISC	**XI**	**24 19 14 06**±6.2	**9.7S**±.52	**112.9E**±.21	**33**		**7**	**2-3**		
DJA	XI	24 19 14 12.7±.99	9.3S	113.1E	33	4.8L,4.7D		¶97xi4366		
DJA	Error ellipse is semi-major=33.3km semi-minor=21.0km azimuth=158									
ISC	**XI**	**25 05 00 01.8**±.82	**9.30S**±.088	**110.09E**±.088	**33**	**4.1b**,3.5s	**20**	**2-80**		
EIDC	XI	25 04 59 56.9	9.7S	109.6E	0	4.2b,3.8s		¶97xi4447		
NEIC	XI	25 05 00 01.7	9.31S	110.07E	33	4.1b				
NEIC	Less reliable solution.									
ISC	**XI**	**26 03 37 48**±13	**9.9S**±.83	**111.9E**±.59	**33**		**6**	**2-4**		
								¶97xi4624		
DJA	**XI**	**29 09 24 44.6**±1.60	**8.0S**	**106.9E**	**33**	4.3D,3.8L		**1-1**		
DJA	Error ellipse is semi-major=74.6km semi-minor=41.4km azimuth=66							¶97xi5233		
ISC	**XI**	**29 12 42 56**±1.1	**9.6S**±.10	**113.54E**±.097	**33**		**7**	**1-18**		
NEIC	XI	29 12 42 55.3	9.55S	113.58E	33	4.2b		¶97xi5268		
DJA	XI	29 12 42 56.6±.90	9.5S	113.4E	33	5.1L,4.6D				
NEIC	Less reliable solution.									
DJA	Error ellipse is semi-major=21.4km semi-minor=18.2km azimuth=148									
ISC	**XII**	**02 22 54 15**±1.2	**10.72S**±.095	**112.0E**±.13	**33**	**3.7b**	**12**	**3-153**		
EIDC	XII	02 22 54 13.0±.94	10.3S	112.5E	0	3.7b		¶97xii0325		
NEIC	XII	02 22 54 15.2	10.73S	112.01E	33					
EIDC	Error ellipse is semi-major=45.2km semi-minor=19.7km azimuth=45									
NEIC	Less reliable solution.									
ISC	**XII**	**05 00 29 00**±1.1	**10.84S**±.083	**112.0E**±.13	**33**	**3.6b**	**11**	**3-69**		
NEIC	XII	05 00 29 00.8	10.78S	112.00E	33			¶97xii0736		
EIDC	XII	05 00 29 02.0±3.20	10.7S	112.0E	31±5.6	3.6b				
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi-major=159.2km semi-minor=14.7km azimuth=47									
ISC	**XII**	**08 05 00 16**±2.1	**9.5S**±.14	**107.2E**±.19	**33**	3.7b	**9**	**3-145**		
EIDC	XII	08 05 00 13.4±2.20	9.3S	107.3E	0	3.9b		¶97xii1867		
EIDC	Error ellipse is semi-major=120.0km semi-minor=43.9km azimuth=25									
ISC	**XII**	**11 20 24 40**±4.4	**8.5S**±.16	**105.0E**±.20	**35**±39	**4.1b**	**23**	**7-77**		
BJI	XII	11 20 24 39.5	8.50S	105.00E	33	4.4b		¶97xii2635		
NEIC	XII	11 20 24 39.5	8.46S	104.98E	33	4.4b				
EIDC	XII	11 20 24 49.4±1.43	8.4S	105.1E	108±13.2	3.7b				
NEIC	Less reliable solution.									
EIDC	Error ellipse is semi-major=40.5km semi-minor=17.9km azimuth=45									
ISC	**XII**	**20 16 01 55**±5.3	**11.5S**±.46	**113.4E**±.14	**33**		**7**	**3-8**		
DJA	XII	20 16 01 59.3±1.34	11.1S	113.2E	33	4.9L,4.7D		¶97xii4138		
DJA	Error ellipse is semi-major=43.2km semi-minor=8.3km azimuth=166									
ISC	**XII**	**21 20 11 37**±2.3	**9.6S**±.25	**112.94E**±.080	**2**		**8**	**2-7**		
DJA	XII	21 20 11 37.9±.65	10.0S	113.0E	2	5.4D,4.8L		¶97xii4299		
DJA	Error ellipse is semi-major=26.0km semi-minor=7.4km azimuth=169									
ISC	**XII**	**25 14 04 56**±6.5	**9.6S**±.55	**112.9E**±.22	**33**		**6**	**2-3**		
								¶97xii4940		
ISC	**XII**	**27 14 46 26**±6.6	**9.4S**±.68	**113.2E**±.20	**33**		**4**	**1-3**		
DJA	XII	27 14 46 28.5±.99	9.3S	113.2E	33	4.8D,4.6L		¶97xii5306		
ISC	Poorly determined									
DJA	Error ellipse is semi-major=26.7km semi-minor=20.6km azimuth=167									
ISC	**XII**	**28 18 56 28.9**±.85	**9.5S**±.11	**111.41E**±.089	**33**	**3.6b**	**12**	**2-69**		
EIDC	XII	28 18 56 28.9±4.46	10.1S	111.4E	0	3.7b		¶97xii5481		
EIDC	Error ellipse is semi-major=175.8km semi-minor=28.6km azimuth=57									

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
	(283) Bali region.						
DJA	**VII 18 08 50 37.6**	**8.1S**	**114.3E**	**12**	4.5D,3.6L		**0-1**
							¶97vii2714
ISC	**VII 26 15 12 57**±3.2	**8.9S**±.35	**115.5E**±.12	**33**		**4**	**1-1**
DJA	VII 26 15 12 56.2	8.7S	115.5E	80	4.7D,3.6L		**¶97vii3976**
ISC	Poorly determined						
DJA	**VIII 02 04 14 52.0**	**8.1S**	**115.1E**	**179**	**4.6b**,3.9L		**0-1**
							¶97viii0168
ISC	**VIII 02 08 03 58**±4.2	**9.0S**±.62	**115.7E**±.20	**108**		**4**	**1-2**
DJA	VIII 02 08 03 58.0	8.9S	115.7E	108	3.7L		**¶97viii0188**
ISC	Poorly determined						
ISC	**VIII 13 17 42 10**±1.1	**8.4S**±.13	**114.97E**±.089	**22**±11		**6**	**0-1**
DJA	VIII 13 17 42 11.9	8.4S	115.0E	13	4.7D		**¶97viii1942**
DJA	**VIII 25 15 28 03.2**	**8.2S**	**115.2E**	**138**	**4.6b**,3.5L		**0-1**
							¶97viii3707
DJA	**IX 03 01 28 11.0**	**8.0S**	**115.2E**	**240**	4.7D,4.1L		**¶97ix0362**
ISC	**IX 04 13 43 27**±2.1	**8.6S**±.19	**115.02E**±.085	**15**		**4**	**0-1**
DJA	IX 04 13 43 30.1	8.4S	115.0E	15	4.6D,3.5L		**¶97ix0599**
ISC	Poorly determined						
ISC	**IX 07 12 17 58**±1.1	**8.4S**±.10	**114.95E**±.089	**12**		**6**	**0-2**
DJA	IX 07 12 17 59.6	8.4S	115.0E	12	4.7D,4.3L		**¶97ix1062**
DJA	**IX 08 21 09 35.1**	**8.1S**	**114.9E**	**2**	**4.8b**,4.6L		**¶97ix1281**
ISC	**IX 09 13 38 18**±1.8	**8.4S**±.38	**114.3E**±.13	**15**		**4**	**0-2**
DJA	IX 09 13 38 19.0	8.4S	114.3E	15	5.7D		**¶97ix1382**
ISC	Poorly determined						
DJA	**IX 09 19 14 59.5**	**8.5S**	**115.0E**	**15**	**5.2b**,3.8L		**¶97ix1432**
DJA	**IX 10 11 23 52.4**	**8.2S**	**115.7E**	**33**	**4.7b**,3.7L		**¶97ix1519**
DJA	**IX 12 15 28 48.8**	**8.7S**	**115.0E**	**156**	**4.8b**,3.9L		**¶97ix1831**
ISC	**IX 22 15 22 38**±3.8	**9.0S**±.55	**115.3E**±.18	**103**		**4**	**1-1**
DJA	IX 22 15 22 39.1	8.9S	115.3E	103	4.9D,3.7L		**¶97ix3299**
ISC	Poorly determined						
DJA	**IX 25 00 00 42.0**	**9.0S**	**115.8E**	**160**	**4.9b**,4.0L		**¶97ix3652**
ISC	**IX 30 15 28 05**±2.2	**8.7S**±.21	**115.70E**±.088	**2**		**4**	**0-2**
DJA	IX 30 15 28 04.1	8.6S	115.7E	2	4.5L,4.4D		**¶97ix5263**
ISC	Poorly determined						
DJA	**X 03 14 57 45.3**	**8.4S**	**114.6E**	**33**	**4.4b**,3.7L		**¶97x0481**
ISC	**X 06 01 23 06**±2.5	**8.8S**±.28	**115.3E**±.11	**31**		**4**	**0-1**
DJA	X 06 01 23 08.4	8.6S	115.3E	31	4.7D,4.2L		**¶97x0964**
ISC	Poorly determined						
ISC	**X 09 07 27 02**±1.8	**8.3S**±.39	**115.8E**±.15	**43**		**4**	**0-2**
DJA	X 09 07 27 02.4	8.3S	115.8E	43	5.1D		**¶97x1548**
ISC	Poorly determined						
DJA	**X 20 21 39 43.2**	**8.4S**	**115.0E**	**10**	**5.0b**,3.6L		**¶97x3562**
ISC	**X 21 18 48 07**±2.2	**8.2S**±.20	**114.8E**±.14	**22**±22		**5**	**0-1**
DJA	X 21 18 48 09.3	8.2S	114.8E	15	4.8D,3.9L		**¶97x3691**
ISC	Poorly determined						
DJA	**X 27 15 38 59.1**	**8.3S**	**115.1E**	**175**	**4.7b**,3.7L		**¶97x4627**
ISC	**XI 02 12 35 13**±2.7	**8.8S**±.48	**115.0E**±.16	**111**		**4**	**0-1**
DJA	XI 02 12 35 13.5±.94	8.7S	115.0E	111±9.5	5.0L,4.6D		**¶97xi0260**
ISC	Poorly determined						
DJA	Error ellipse is semi−major=27.9km semi−minor=6.9km azimuth=177						
ISC	**XI 11 19 53 10**±1.6	**8.5S**±.99	**115.7E**±.27	**190**		**4**	**0-2**
DJA	XI 11 19 53 10.0±1.81	8.5S	115.6E	190±15.7	4.6D,4.0L		**¶97xi1860**
ISC	Poorly determined						
DJA	Error ellipse is semi−major=72.1km semi−minor=16.9km azimuth=178						
DJA	**XI 14 09 29 01.5**±1.81	**8.6S**	**115.8E**	**180**±15.8	4.5D,4.3L		**0-2**
							¶97xi2266
DJA	Error ellipse is semi−major=70.7km semi−minor=17.2km azimuth=178						
ISC	**XI 16 16 41 08.7**±.87	**8.4S**±.13	**115.95E**±.068	**33**		**10**	**0-9**
							¶97xi2670
DJA	**XI 27 20 28 29.8**±1.28	**8.5S**	**115.9E**	**8**±6.1	4.4D		**0-1**
DJA	Error ellipse is semi−major=64.1km semi−minor=8.9km azimuth=10						**¶97xi4931**
DJA	**XI 27 20 30 19.7**±1.07	**8.9S**	**115.9E**	**15**	4.5D		**0-1**
							¶97xi4932
DJA	Error ellipse is semi−major=26.3km semi−minor=10.6km azimuth=168						
DJA	**XI 27 22 52 50.6**±1.20	**8.6S**	**116.0E**	**15**	4.5D,3.8L		**0-1**
DJA	Error ellipse is semi−major=42.0km semi−minor=7.7km azimuth=1						**¶97xi4954**
ISC	**XI 28 01 17 13.4**±.72	**8.7S**±.12	**114.58E**±.095	**130**±8.8	**4.2b**	**15**	**1-68**
EIDC	XI 28 01 17 00.7	8.8S	114.4E	0	4.3b,3.2s		**¶97xi4986**
NEIC	XI 28 01 17 13.4	8.68S	114.61E	128	4.0b		
DJA	XI 28 01 17 15.5±1.00	8.7S	114.7E	121±7.1	5.3L,4.5D		
NEIC	Less reliable solution.						
DJA	Error ellipse is semi−major=28.3km semi−minor=22.1km azimuth=23						
DJA	**XI 29 01 45 51.4**±.57	**8.6S**	**115.9E**	**15**	5.6D		**0-1**
DJA	Error ellipse is semi−major=34.0km semi−minor=6.5km azimuth=178						**¶97xi5172**
DJA	**XI 30 16 58 51.5**±1.17	**8.4S**	**115.3E**	**228**±9.6	**4.6b**,3.8L		**0-1**
							¶97xi5435
DJA	Error ellipse is semi−major=77.8km semi−minor=18.3km azimuth=177						
ISC	**XII 13 01 21 33.3**±.66	**8.99S**±.078	**115.30E**±.071	**33**	**3.6b**	**11**	**1-26**
NEIC	XII 13 01 21 33.0	8.93S	115.36E	33	3.9b		**¶97xii2854**
DJA	**XII 15 02 30 48.6**±.50	**8.2S**	**114.8E**	**80**	4.6L,**4.6D**		**0-1**
DJA	Error ellipse is semi−major=30.9km semi−minor=6.8km azimuth=177						**¶97xii3231**
DJA	**XII 26 15 54 24.1**±.27	**8.5S**	**114.4E**	**2**	4.4D		**0-1**
DJA	Error ellipse is semi−major=23.9km semi−minor=3.2km azimuth=172						**¶97xii5169**
	(284) South of Bali.						
ISC	**VII 02 01 41 44**±1.1	**9.74S**±.071	**114.7E**±.17	**33**		**7**	**1-17**
							¶97vii0162
DJA	**VII 05 19 16 09.6**	**10.9S**	**115.9E**	**320**	4.5D,4.0L		**2-3**
							¶97vii0772
ISC	**VII 11 15 41 22**±5.8	**9.2S**±.60	**114.7E**±.20	**80**		**4**	**1-2**
DJA	VII 11 15 41 23.3	9.1S	114.6E	80	4.9L,4.6D		**¶97vii1703**
ISC	Poorly determined						
EIDC	**VII 13 05 22 19.2**	**11.9S**	**115.3E**	**0**	**3.4b**		**3-31**
							¶97vii1927
ISC	**VII 18 05 31 16**±1.1	**11.06S**±.067	**114.5E**±.13	**52**±12	**4.1b**	**19**	**2-69**
EIDC	VII 18 05 31 14.9	10.6S	115.1E	0	4.1b		**¶97vii2699**
NEIC	VII 18 05 31 15.4	11.10S	114.50E	50	3.8b		
DJA	VII 18 05 31 15.8	8.8S	114.8E	320	5.1L,4.6D		
ISC	DJA magnitude values may be overestimated						
NEIC	Less reliable solution.						
DJA	**VIII 11 18 50 52.7**	**9.4S**	**115.4E**	**80**	4.5D,4.0L		**1-2**
							¶97viii1608
ISC	**VIII 21 22 50 04**±9.3	**9.6S**±.73	**115.0E**±.19	**33**		**4**	**1-2**
DJA	VIII 21 22 50 05.3	9.6S	115.0E	33	4.7D,4.5L		**¶97viii3153**
ISC	Poorly determined						
DJA	**VIII 25 19 44 07.8**	**9.4S**	**115.1E**	**33**	**4.8D,4.0L**		**1-1**
							¶97viii3733
ISC	**IX 04 03 40 25**±8.3	**9.5S**±.75	**115.1E**±.19	**80**		**4**	**1-1**
DJA	IX 04 03 40 27.2	9.3S	115.1E	80	4.7D,4.6L		**¶97ix0540**
ISC	Poorly determined						
ISC	**IX 20 16 02 18**±5.2	**9.2S**±.59	**115.3E**±.18	**105**		**4**	**1-1**
DJA	IX 20 16 02 18.7	9.1S	115.3E	105	4.6D,4.3L		**¶97ix2960**
ISC	Poorly determined						
DJA	**IX 21 01 11 31.2**	**10.4S**	**116.0E**	**33**	4.5D,4.3L		**¶97ix3024**
DJA	**IX 22 08 49 42.5**	**9.3S**	**115.9E**	**15**	4.5D,3.9L		**¶97ix3250**
ISC	**X 04 13 27 18**±6.9	**9.8S**±.51	**115.2E**±.20	**11**		**4**	**1-2**
DJA	X 04 13 27 23.2	9.5S	115.2E	11	4.5L,4.4D		**¶97x0652**
ISC	Poorly determined						
DJA	**X 21 04 18 30.5**	**9.6S**	**115.2E**	**80**	4.5D,3.6L		**¶97x3601**
DJA	**XI 05 12 08 59.9**±1.28	**9.1S**	**115.6E**	**2**	4.5D		**1-2**
DJA	Error ellipse is semi−major=40.2km semi−minor=8.0km azimuth=166						**¶97xi0793**
DJA	**XI 06 08 31 01.9**±1.20	**9.6S**	**115.7E**	**80**	4.5D,3.6L		**1-2**
							¶97xi0948
DJA	Error ellipse is semi−major=37.5km semi−minor=12.0km azimuth=167						
ISC	**XI 09 17 24 56.8**±.97	**9.1S**±.19	**115.3E**±.13	**66**±36	3.5b	**7**	**1-21**
NEIC	XI 09 17 24 55.6	9.11S	115.59E	33	4.0b		**¶97xi1481**
DJA	XI 09 17 24 59.4±.41	8.7S	115.4E	80	4.5D		
NEIC	Poor solution.						
DJA	Error ellipse is semi−major=22.0km semi−minor=7.7km azimuth=174						
DJA	**XI 09 17 42 35.1**±.91	**9.5S**	**114.2E**	**33**	**4.7L,4.6D**		**1-2**
DJA	Error ellipse is semi−major=20.8km semi−minor=10.1km azimuth=30						**¶97xi1482**
ISC	**XII 14 09 28 13**±5.3	**9.1S**±.48	**115.6E**±.16	**33**		**4**	**1-2**
DJA	XII 14 09 28 14.8±.57	9.0S	115.6E	33	4.6D,4.0L		**¶97xii3128**
ISC	Poorly determined						
DJA	Error ellipse is semi−major=14.5km semi−minor=6.2km azimuth=161						
DJA	**XII 16 07 39 46.3**±.76	**9.1S**	**115.2E**	**33**	4.5D,**3.8L**		**1-1**
DJA	Error ellipse is semi−major=24.9km semi−minor=6.4km azimuth=174						**¶97xii3406**
DJA	**XII 17 19 38 41.2**±1.28	**9.3S**	**115.3E**	**15**	4.5D		**1-1**
							¶97xii3655
DJA	Error ellipse is semi−major=48.3km semi−minor=10.2km azimuth=173						
ISC	**XII 22 10 06 16**±5.8	**9.6S**±.43	**115.2E**±.17	**12**		**5**	**1-2**
DJA	XII 22 10 06 21.2±.65	9.4S	115.2E	12±4.4	4.9L,4.7D		**¶97xii4399**
DJA	Error ellipse is semi−major=17.3km semi−minor=5.7km azimuth=177						
	(285) Sumbawa region.						
DJA	**VII 02 02 34 28.8**	**9.9S**	**116.9E**	**33**	4.6L,4.5D		**2-3**
							¶97vii0171
ISC	**VII 04 07 11 15**±1.5	**8.0S**±.27	**117.8E**±.16	**253**±19	**4.5b**	**18**	**2-39**
EIDC	VII 04 07 10 33.0	6.6S	116.4E	0	4.5b		**¶97vii0517**
DJA	VII 04 07 11 10.3	7.9S	113.0E	400	4.6D,4.4L		
ISC	**VII 05 10 52 09.7**±.65	**9.43S**±.054	**117.95E**±.055	**110**±8.6	**4.4b**	**40**	**2-136**
NEIC	VII 05 10 52 08.6	9.41S	117.92E	100	4.5b		**¶97vii0717**
DJA	VII 05 10 52 10.5	9.4S	117.9E	103	5.4L,4.9D		
EIDC	VII 05 10 52 16.5	9.4S	118.2E	153	3.7b,3.7s		
ISC	DJA magnitude values may be overestimated						
NEIC	Less reliable solution.						
ISC	**VII 07 05 01 10.8**±.64	**9.78S**±.056	**117.74E**±.060	**113**±7.7	**4.4b**	**45**	**2-150**
BJI	VII 07 05 01 04.6	10.51S	118.17E	115	4.8b		**¶97vii0995**
NEIC	VII 07 05 01 10.6	9.74S	117.73E	115	4.5b		
DJA	VII 07 05 01 11.0	9.8S	117.7E	96	5.6L,3.1D		
EIDC	VII 07 05 01 13.9	9.8S	117.9E	124	4.1b,3.5s		
ISC	DJA magnitude values may be overestimated						
ISC	**VII 08 01 49 57.6**±.51	**8.19S**±.045	**118.56E**±.052	**191**±6.3	**4.4b**	**71**	**2-155**
BJI	VII 08 01 49 52.6	8.09S	118.73E	148	4.6b		**¶97vii1118**
EIDC	VII 08 01 49 52.9	8.1S	118.7E	126	4.3b		
NEIC	VII 08 01 49 53.6	8.03S	118.72E	150	4.9b		
DJA	VII 08 01 49 58.2	8.1S	118.5E	192	5.6L,4.6D		
ISC	DJA magnitude values may be overestimated						
ISC	**VII 12 06 10 25**±1.9	**9.1S**±.61	**118.4E**±.29	**100**	3.9b	**10**	**2-31**
EIDC	VII 12 06 10 10.8	8.5S	118.0E	0	3.8b,4.0L		**¶97vii1778**
DJA	**VII 16 22 30 21.0**	**10.0S**	**116.4E**	**5**	4.4D,4.4L		**2-3**
							¶97vii2504
ISC	**VII 23 16 18 27**±3.8	**8.34S**±.046	**116.75E**±.059	**9**±24	**4.6b**	**59**	**2-155**
EIDC	VII 23 16 18 27.1	8.4S	116.6E	0	4.4b		**¶97vii3553**
BJI	VII 23 16 18 30.1	8.42S	116.82E	31	4.8b		
NEIC	VII 23 16 18 30.4	8.32S	116.79E	33	4.7b		
DJA	**VII 31 19 23 57.3**	**9.7S**	**118.7E**	**240**	4.6D,4.3L		**3-5**
							¶97vii4779
DJA	**VII 31 20 28 56.7**	**8.3S**	**116.2E**	**33**	4.6D,3.5L		**1-2**
							¶97vii4786
DJA	**VIII 02 08 20 08.9**	**9.7S**	**117.3E**	**33**	4.0L		**2-3**
							¶97viii0190
ISC	**VIII 02 17 19 07.4**±.88	**9.6S**±.23	**118.1E**±.31	**256**±54		**10**	**2-20**
							¶97viii0238
ISC	**VIII 04 01 36 16.7**±.45	**8.43S**±.082	**118.01E**±.063	**33**	**4.6b**	**23**	**2-62**
EIDC	VIII 04 01 36 13.6	8.4S	118.0E	0	4.4b,4.2L		**¶97viii0439**
NEIC	VIII 04 01 36 16.2	8.39S	118.00E	33	4.5b		
BJI	VIII 04 01 36 16.6	8.33S	118.27E	30	5.0b		
DJA	**VIII 05 09 02 20.6**	**9.5S**	**116.9E**	**80**	4.5D,3.8L		**1-3**
							¶97viii0645
ISC	**VIII 12 03 09 35**±1.1	**8.5S**±.14	**118.8E**±.11	**240**		**6**	**3-19**
DJA	VIII 12 03 09 32.4	8.7S	119.0E	240	4.9L,4.6D		**¶97viii1672**
DJA	**VIII 12 18 56 14.5**	**8.2S**	**117.9E**	**160**	**4.6L,4.6D**		**2-4**
							¶97viii1793
DJA	**VIII 13 23 10 55.2**	**9.9S**	**117.5E**	**33**	4.5D,4.4L		**2-4**
							¶97viii1976
ISC	**VIII 14 12 49 35**±5.4	**8.3S**±.86	**117.7E**±.60	**278**		**5**	**2-4**
DJA	VIII 14 12 49 35.2	8.1S	117.5E	278	4.6D,4.2L		**¶97viii2062**
ISC	**VIII 21 10 29 32**±1.4	**9.12S**±.091	**119.0E**±.11	**75**±37	3.9b	**15**	**3-23**
DJA	VIII 21 10 29 32.8	9.1S	119.0E	2	5.2L,4.8D		**¶97viii3084**
ISC	DJA magnitude calculations may be overestimated						
DJA	**VIII 23 08 46 57.1**	**9.8S**	**116.7E**	**33**	4.5D,4.0L		**1-3**
							¶97viii3372
DJA	**VIII 26 03 58 57.2**	**8.9S**	**118.6E**	**80**	4.8L,**4.6D**		**2-5**
							¶97viii3783
ISC	**VIII 30 10 29 01**±1.2	**8.69S**±.061	**117.6E**±.11	**195**±14	**4.1b**	**23**	**4-155**
NEIC	VIII 30 10 28 54.4	8.60S	117.46E	128	4.8b		**¶97viii4470**
EIDC	VIII 30 10 28 59.5	8.6S	117.6E	160	3.7b		
NEIC	Less reliable solution.						
ISC	**IX 01 18 37 47**±7.3	**8.3S**±.93	**117.8E**±.62	**160**		**7**	**2-4**
DJA	IX 01 18 37 46.6	8.3S	117.8E	160	4.6D,4.3L		**¶97ix0151**
DJA	**IX 04 08 00 20.4**	**8.9S**	**116.0E**	**18**	4.6D		**¶97ix0566**
DJA	**IX 05 13 54 23.8**	**9.6S**	**116.6E**	**33**	4.5D,3.9L		**¶97ix0750**

DJA	**IX**	**05 17 57 39.7**	**9.6S**	**116.1E**	**33**	4.5D,3.7L	**¶97ix0781**
DJA	**IX**	**08 04 30 17.0**	**10.0S**	**118.6E**	**80**	4.5D,4.4L	**¶97ix1172**
DJA	**IX**	**08 08 10 46.8**	**9.7S**	**116.1E**	**80**	4.5D,4.2L	**¶97ix1196**
DJA	**IX**	**09 15 17 46.1**	**9.4S**	**116.3E**	**33**	**4.9D**,3.8L	**¶97ix1399**
DJA	**IX**	**12 15 57 42.5**	**9.8S**	**118.2E**	**33**	4.5D,4.5L	**¶97ix1839**
ISC	**IX**	**24 03 17 09**±6.3	**8.5S**±.77	**117.8E**±.52	**178**		**7 2-5**
DJA	IX	24 03 17 12.2	8.1S	117.6E	178	4.5D,4.0L	**¶97ix3516**
ISC	**IX**	**30 12 13 36**±1.4	**9.3S**±.21	**117.2E**±.24	**138**±54		**7 1-17**
DJA	IX	30 12 13 31.8	9.6S	117.5E	108	5.0L,4.7D	**¶97ix5223**
NEIC	IX	30 12 13 32.6	9.48S	117.48E	33	3.8b	
NEIC	Less reliable solution.						
DJA	**IX**	**30 21 24 49.3**	**9.4S**	**118.0E**	**320**	4.5D,3.7L	**¶97ix5314**
ISC	**X**	**01 14 37 16.7**±.92	**9.1S**±.11	**118.37E**±.084	**33**		**7 2-17**
DJA	X	01 14 37 15.5	9.2S	118.6E	160	4.8L,4.5D	**¶97x0102**
NEIC	X	01 14 37 16.1	9.10S	118.34E	33		
NEIC	Single network solution.						
DJA	**X**	**03 22 34 16.4**	**9.4S**	**116.7E**	**80**	4.8L,4.5D	**¶97x0537**
DJA	**X**	**04 15 00 31.2**	**9.4S**	**116.7E**	**33**	**4.5D**,4.0L	**¶97x0666**
ISC	**X**	**08 16 32 08**±1.0	**8.5S**±.26	**117.56E**±.091	**166**±15	**3.7b**	**14 1-32**
DJA	X	08 16 32 04.5	8.6S	117.6E	213	5.3L,4.6D	**¶97x1439**
NEIC	X	08 16 32 07.4	8.48S	117.57E	166	4.1b	
NEIC	Less reliable solution.						
ISC	**X**	**10 01 37 31.2**±.54	**9.14S**±.073	**118.05E**±.055	**33**	4.1b	**16 2-31**
DJA	X	10 01 37 27.0	9.6S	118.2E	97	5.1L,4.7D	**¶97x1675**
NEIC	X	10 01 37 30.8	9.12S	118.03E	33	3.9b	
EIDC	X	10 01 37 36.2	9.5S	118.7E	0	4.0b,3.8L	
ISC	**X**	**13 12 00 55.9**±.68	**9.37S**±.080	**118.99E**±.063	**94**±13	**3.9b**	**20 1-34**
NEIC	X	13 12 00 55.7	9.35S	118.97E	94	4.0b	**¶97x2213**
EIDC	X	13 12 00 57.1	9.3S	119.0E	91	3.9b,3.3s	
ISC	**X**	**19 03 51 33**±1.3	**9.1S**±.26	**118.7E**±.14	**33**	3.9b	**9 3-23**
NEIC	X	19 03 51 32.7	9.02S	118.64E	33	3.8b	**¶97x3281**
NEIC	Less reliable solution.						
DJA	**X**	**22 08 05 19.8**	**8.9S**	**117.8E**	**33**	4.5D,4.4L	**¶97x3776**
ISC	**X**	**23 01 16 01.5**±.34	**8.64S**±.029	**117.01E**±.028	**160**±3.4	**5.3b**	**319 1-154**
BJI	X	23 01 16 01.8	8.70S	117.00E	160	5.4b	**¶97x3905**
NEIC	X	23 01 16 01.8	8.67S	117.02E	160	5.5b	
MOS	X	23 01 16 02.1	8.7S	116.9E	171	5.7b	
EIDC	X	23 01 16 02.8	8.7S	117.0E	154	5.0b	
HRVD	X	23 01 16 04.3±.2	8.77S±.02	116.95E±.03	154±.9		
NEIC	Mw5.7(HRV)						
NEIC	Felt I=III MM at Denpasar, Bali; Mataram, Lombok; and Waingapu, Sumba. Also felt II MM at Ruteng, Flores.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s46,c81; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.82±.07; $M_{\theta\theta}$1.00±.08; $M_{\phi\phi}$−0.18±.10; $M_{r\theta}$3.49±.06; $M_{r\phi}$−0.22±.08; $M_{\theta\phi}$0.63±.09. Principal Axes: T 3.73,Plg37°,Azm353°; N −0.12, Plg11°,Azm91°; P −3.61,Plg51°,Azm195°. Best double couple: $M_0$3.7×10^{17}Nm, NP1:ϕ_S35°, δ13°,λ−147°. NP2:ϕ_S273°,δ83°,λ−79°.						
DJA	**X**	**23 11 14 37.5**	**9.4S**	**117.3E**	**15**	4.5D,3.7L	**¶97x3978**
ISC	**X**	**27 20 11 20**±2.3	**9.6S**±.57	**117.5E**±.18	**33**		**5 2-4**
NEIC	X	27 20 11 20.3	8.81S	117.69E	33		**¶97x4654**
NEIC	Poor solution.						
ISC	**XI**	**02 15 58 12**±3.0	**8.7S**±.64	**116.5E**±.27	**13**±22		**5 0-21**
ISC	Poorly determined						**¶97xi0297**
DJA	**XI**	**04 03 16 24.4**±1.14	**9.6S**	**117.8E**	**33**	4.5D,4.0L	**2-4**
DJA	Error ellipse is semi−major=41.2km semi−minor=25.9km azimuth=21						**¶97xi0564**
ISC	**XI**	**06 01 17 27**±2.4	**8.08S**±.051	**117.90E**±.056	**17**±20	**4.5b**,4.9s	**41 2-155**
BJI	XI	06 01 17 21.6	9.03S	118.21E	33	4.6b,5.1s	**¶97xi0895**
NEIC	XI	06 01 17 28.6	8.10S	117.88E	33	4.6b	
EIDC	XI	06 01 17 28.6	8.1S	118.1E	20	4.4b,4.1L	
ISC	**XI**	**11 10 29 10.0**±.65	**8.08S**±.096	**116.81E**±.080	**192**±11	4.4b	**16 1-23**
NEIC	XI	11 10 29 07.2	7.68S	116.86E	198	4.4b	**¶97xi1773**
NEIC	Poor solution.						
ISC	**XI**	**12 07 26 23**±1.0	**9.1S**±.11	**118.84E**±.074	**33**		**9 2-6**
DJA	XI	12 07 26 19.8±1.07	9.3S	118.9E	160	4.7D,4.6L	**¶97xi1950**
NEIC	XI	12 07 26 22.2	9.09S	118.78E	33		
DJA	Error ellipse is semi−major=33.1km semi−minor=5.7km azimuth=144						
DJA	**XI**	**14 14 26 39.3**±1.20	**9.1S**	**116.5E**	**240**	4.5D,3.8L	**1-2**
							¶97xi2299
DJA	Error ellipse is semi−major=109.7km semi−minor=21.4km azimuth=176						
DJA	**XI**	**22 07 00 55.9**±.87	**8.4S**	**118.1E**	**170**±12.3	**4.6D,4.3L**	**2-5**
DJA	Error ellipse is semi−major=37.3km semi−minor=7.7km azimuth=144						**¶97xi3825**
DJA	**XI**	**22 15 01 07.6**±1.28	**9.7S**	**116.5E**	**10**±6.4	4.5D,3.7L	**1-3**
							¶97xi3899
DJA	Error ellipse is semi−major=33.6km semi−minor=18.9km azimuth=127						
ISC	**XI**	**25 15 46 04**±4.0	**8.3S**±.18	**116.5E**±.12	**12**±23	**3.8b**	**13 0-33**
NEIC	XI	25 15 46 04.4	7.99S	116.51E	33	4.0b	**¶97xi4543**
EIDC	XI	25 15 46 04.7	8.2S	116.8E	0	3.7b,3.7L	
NEIC	Less reliable solution.						
DJA	**XI**	**26 12 32 07.6**±1.27	**9.4S**	**116.3E**	**15**	4.5D,3.3L	**1-2**
							¶97xi4683
DJA	Error ellipse is semi−major=32.2km semi−minor=13.6km azimuth=140						
DJA	**XI**	**27 22 19 40.3**±1.20	**8.4S**	**116.0E**	**15**	4.4D	**0-1**
DJA	Error ellipse is semi−major=123.9km semi−minor=7.6km azimuth=33						**¶97xi4945**
DJA	**XII**	**06 15 25 34.8**±1.20	**9.6S**	**117.4E**	**80**	3.8L	**2-3**
DJA	Error ellipse is semi−major=38.0km semi−minor=27.9km azimuth=8						**¶97xii1457**
ISC	**XII**	**07 11 27 02**±5.1	**8.0S**±.69	**117.7E**±.48	**80**		**7 2-5**
DJA	XII	07 11 27 04.3±.24	8.0S	117.6E	80	5.1L,4.7D	**¶97xii1685**
DJA	Error ellipse is semi−major=9.6km semi−minor=5.6km azimuth=165						
DJA	**XII**	**09 03 20 59.2**±1.20	**8.9S**	**118.6E**	**33**	4.4L	**2-4**
DJA	Error ellipse is semi−major=194.6km semi−minor=27.7km azimuth=5						**¶97xii2089**
ISC	**XII**	**13 11 59 28.0**±.56	**8.11S**±.060	**118.68E**±.059	**190**±6.2	**4.3b**	**48 2-125**
DJA	XII	13 11 59 20.9±.86	8.5S	118.6E	320	5.4L,4.7D	**¶97xii2939**
NEIC	XII	13 11 59 28.2	8.19S	118.72E	182	4.5b	
EIDC	XII	13 11 59 30.5±2.24	8.2S	118.7E	192±20.2	3.8b	
EIDC	Error ellipse is semi−major=29.0km semi−minor=10.3km azimuth=52						
ISC	**XII**	**14 02 32 39.4**±.76	**9.9S**±.18	**118.5E**±.10	**33**		**9 2-20**
DJA	XII	14 02 32 34.6±.89	9.5S	118.8E	200±13.3	4.9L	**¶97xii3065**
NEIC	XII	14 02 32 38.5	9.88S	118.50E	33	3.5b	
DJA	Error ellipse is semi−major=84.5km semi−minor=8.7km azimuth=15						
NEIC	Less reliable solution.						
DJA	**XII**	**17 17 20 34.0**±1.16	**9.5S**	**116.6E**	**33**	4.5D,4.0L	**1-3**
							¶97xii3639
DJA	Error ellipse is semi−major=27.9km semi−minor=17.4km azimuth=137						
DJA	**XII**	**19 14 24 22.6**±.69	**8.7S**	**117.6E**	**205**±8.6	**4.9L,4.6D**	**1-3**
DJA	Error ellipse is semi−major=57.8km semi−minor=7.1km azimuth=12						**¶97xii3980**
DJA	**XII**	**21 02 47 36.1**±1.20	**8.3S**	**116.7E**	**242**±20.5	4.5D,4.0L	**1-2**
							¶97xii4199
DJA	Error ellipse is semi−major=653.4km semi−minor=22.7km azimuth=179						
DJA	**XII**	**25 11 36 01.8**±.82	**8.4S**	**116.1E**	**109**±5.8	4.4L,4.4D	**0-2**
DJA	Error ellipse is semi−major=98.3km semi−minor=10.8km azimuth=2						**¶97xii4917**

(286) Flores region.

EIDC	**VII**	**01 04 29 22.6**	**8.8S**	**122.7E**	**0**	3.8b,3.3L	**16-82**
							¶97vii0032
ISC	**VII**	**02 15 09 42**±2.2	**8.8S**±.35	**119.2E**±.21	**250**		**6 3-21**
							¶97vii0257
ISC	**VII**	**26 09 05 52.6**±.69	**8.07S**±.076	**120.0E**±.11	**33**	**4.2b**	**15 2-68**
DJA	VII	26 09 05 52.6	7.1S	119.2E	360	4.7D,4.4L	**¶97vii3944**
NEIC	VII	26 09 05 52.6	8.06S	119.97E	33	4.3b	
EIDC	VII	26 09 05 55.4	8.5S	120.3E	0	3.7L,4.1b	
NEIC	Less reliable solution.						
ISC	**VII**	**26 09 30 46.4**±.62	**8.05S**±.075	**119.94E**±.070	**33**	4.1b	**13 2-31**
DJA	VII	26 09 30 50.0	7.9S	119.7E	33	4.7L,4.6D	**¶97vii3945**
EIDC	VII	26 09 30 51.3	8.7S	120.2E	0	3.7L,4.3b	
ISC	**VII**	**29 11 21 16**±4.4	**8.5S**±.40	**120.0E**±.21	**164**±12	4.2b	**14 1-31**
NEIC	VII	29 11 21 15.6	8.56S	120.02E	164	4.4b	**¶97vii4425**
EIDC	VII	29 11 21 19.5	9.1S	119.9E	148	3.9b	
NEIC	Poor solution.						
ISC	**VIII**	**05 06 20 36**±1.0	**8.8S**±.18	**120.3E**±.10	**33**	4.3b	**10 1-49**
NEIC	VIII	05 06 20 35.7	8.83S	120.29E	33		**¶97viii0624**
EIDC	VIII	05 06 20 45.8	9.0S	120.2E	130	4.0b,3.8L	
NEIC	Less reliable solution.						
ISC	**VIII**	**15 06 29 34**±2.1	**8.2S**±.29	**120.2E**±.15	**178**±15	4.0b	**11 1-31**
							¶97viii2170
ISC	**VIII**	**17 04 53 47.1**±.76	**8.55S**±.033	**120.61E**±.035	**100**±7.6	**5.3b**	**288 4-154**
MOS	VIII	17 04 53 43.5	8.5S	120.5E	71	5.7b	**¶97viii2486**
BJI	VIII	17 04 53 43.9	8.45S	120.83E	66	5.1b,4.9s	
NEIC	VIII	17 04 53 43.9	8.47S	120.55E	74	5.6b	
DJA	VIII	17 04 53 48.9	8.9S	120.5E	160	6.6b	
EIDC	VIII	17 04 53 51.7	8.5S	120.8E	125	4.7b	
HRVD	VIII	17 04 53 52.7±.5	8.47S	120.55E	129±3.7		
ISC	DJA magnitude calculations may be overestimated						
NEIC	Mw5.4(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c33; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}4.57±.62; $M_{\theta\theta}$1.76±.89; $M_{\phi\phi}$−6.32±1.12; $M_{r\theta}$−9.20±.55; $M_{r\phi}$−0.69±.82; $M_{\theta\phi}$5.14±1.04. Principal Axes: T 13.3,Plg46°,Azm163°; N −3.2,Plg38°,Azm306°; P −10.0,Plg19°,Azm52°. Best double couple: $M_0$1.2×10^{17}Nm, NP1: ϕ_S185°,δ42°,λ156°. NP2:ϕ_S294°,δ74°,λ51°.						
ISC	**VIII**	**24 08 29 13**±1.2	**8.84S**±.085	**123.14E**±.098	**107**±18	**4.3b**	**20 3-30**
NEIC	VIII	24 08 29 14.5	8.96S	123.19E	107	4.4b	**¶97viii3499**
NEIC	Less reliable solution.						
ISC	**IX**	**01 08 07 03**±3.5	**8.5S**±.36	**123.9E**±.19	**163**±26		**9 4-27**
NEIC	IX	01 08 07 03.4	8.52S	123.92E	162	4.0b	**¶97ix0070**
NEIC	Poor solution.						
EIDC	**IX**	**06 07 29 48.5**	**9.0S**	**119.1E**	**0**	4.1b,4.1L	**¶97ix0877**
EIDC	LO CONF Location						
ISC	**IX**	**06 20 21 44**±4.7	**8.8S**±.47	**122.8E**±.30	**111**±47	4.2b	**8 3-29**
EIDC	IX	06 20 21 28.5	8.2S	122.5E	0	4.4L,4.5b	**¶97ix0964**
NEIC	IX	06 20 21 38.4	8.49S	123.11E	33	4.2b	
NEIC	Poor solution.						
ISC	**IX**	**08 11 56 45**±8.1	**8.3S**±.88	**123.6E**±.65	**200**	3.7b	**6 16-29**
EIDC	IX	08 11 57 09.2	9.0S	124.9E	323	3.3b	**¶97ix1217**
ISC	**IX**	**09 10 01 53.7**±.54	**8.19S**±.043	**119.86E**±.067	**212**±6.8	**4.3b**	**59 3-154**
BJI	IX	09 10 01 44.4	9.00S	120.58E	200	4.7b	**¶97ix1355**
DJA	IX	09 10 01 51.3	8.3S	119.8E	244	5.3L,4.7D	
NEIC	IX	09 10 01 52.6	8.10S	119.99E	200	4.5b	
EIDC	IX	09 10 01 54.7	8.1S	120.0E	205	3.9b	
ISC	**IX**	**10 14 42 57.1**±.62	**8.52S**±.066	**119.07E**±.071	**163**±11	**3.9b**	**24 3-81**
NEIC	IX	10 14 42 55.9	8.36S	119.22E	150	4.3b	**¶97ix1533**
DJA	IX	10 14 42 56.3	8.4S	118.9E	229	4.9L,4.6D	
EIDC	IX	10 14 43 00.5	8.2S	119.5E	184	3.6b	
NEIC	Less reliable solution.						
EIDC	**IX**	**12 03 50 13.3**	**8.9S**	**122.6E**	**0**	3.9b,3.3L	**¶97ix1768**
ISC	**IX**	**14 05 50 21**±7.2	**8.8S**±.66	**122.1E**±.67	**33**	3.7b	**6 16-29**
EIDC	IX	14 05 50 19.4	9.3S	121.8E	0	3.8L,3.9b	**¶97ix2081**
ISC	**IX**	**22 03 33 05.7**±.75	**8.20S**±.043	**119.42E**±.057	**37**±8.6	**4.3b**	**47 2-153**
DJA	IX	22 03 33 01.2	7.9S	119.0E	316	5.5L,4.8D	**¶97ix3204**
BJI	IX	22 03 33 05.1	8.20S	119.40E	33	4.7b	
NEIC	IX	22 03 33 05.1	8.23S	119.36E	33	4.5b	
EIDC	IX	22 03 33 08.4	8.2S	119.4E	39	4.1b,4.7L	
ISC	**X**	**10 06 23 57.1**±.56	**8.40S**±.080	**119.43E**±.080	**181**±12	**4.6b**	**19 2-37**
DJA	X	10 06 23 54.7	8.4S	119.4E	240	4.8L,4.6D	**¶97x1704**
NEIC	X	10 06 23 57.3	8.34S	119.36E	200	4.7b	
EIDC	X	10 06 23 57.8	9.4S	119.4E	85	4.7b	
ISC	**X**	**26 15 15 10.6**±.64	**8.35S**±.071	**119.53E**±.082	**199**±8.9	**3.7b**	**17 2-134**
DJA	X	26 15 15 06.4	8.3S	119.4E	294	5.2L,4.6D	**¶97x4485**
NEIC	X	26 15 15 10.3	8.37S	119.54E	194	4.1b	
EIDC	X	26 15 15 12.4	8.2S	119.7E	196	3.6b	
ISC	**X**	**30 09 58 09**±3.8	**8.6S**±.44	**123.0E**±.28	**200**		**8 3-18**
							¶97x5019
ISC	**XI**	**02 12 31 04**±2.0	**8.82S**±.049	**123.93E**±.053	**18**±16	**4.5b**	**57 4-152**
BJI	XI	02 12 30 58.9	9.72S	124.27E	33	4.8b	**¶97xi0258**
EIDC	XI	02 12 31 03.7	8.8S	123.9E	0	4.6b,4.1L	
NEIC	XI	02 12 31 06.3	8.84S	123.91E	33	4.6b	
ISC	**XI**	**14 06 41 02.1**±.46	**8.33S**±.059	**119.47E**±.061	**189**±7.8	**4.3b**	**28 2-81**
DJA	XI	14 06 41 00.4±.99	8.3S	119.4E	236±13.4	4.9L,4.6D	**¶97xi2252**
NEIC	XI	14 06 41 01.9	8.30S	119.46E	195	4.7b	
EIDC	XI	14 06 41 06.8	8.1S	119.9E	225	3.9b	
DJA	Error ellipse is semi−major=37.1km semi−minor=5.4km azimuth=140						
ISC	**XI**	**17 21 31 04**±2.1	**8.5S**±.35	**120.5E**±.17	**143**±22	3.7b	**9 1-22**
NEIC	XI	17 21 31 03.5	8.49S	120.54E	140	3.8b	**¶97xi2863**
NEIC	Less reliable solution.						
ISC	**XI**	**24 18 40 45**±7.1	**8S**±1.1	**120.5E**±.29	**150**	4.1b	**5 1-30**
							¶97xi4359
ISC	**XII**	**02 21 10 06**±1.6	**8.5S**±.19	**123.6E**±.15	**209**±18	**3.5b**	**15 2-70**
NEIC	XII	02 21 10 06.1	8.55S	123.54E	210	3.8b	**¶97xii0311**
EIDC	XII	02 21 10 07.4±8.15	8.6S	123.5E	204±93.9	3.3b	
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=116.6km semi−minor=26.6km azimuth=51						
ISC	**XII**	**11 15 58 39**±6.1	**8.5S**±.14	**119.47E**±.083	**17**±61	3.8b	**11 3-31**
DJA	XII	11 15 58 38.6±.88	8.3S	119.5E	160	5.0L,4.6D	**¶97xii2597**
NEIC	XII	11 15 58 40.5	8.46S	119.44E	33	3.8b	
EIDC	XII	11 15 58 42.2	8.8S	119.6E	0	3.8b,3.7L	
DJA	Error ellipse is semi−major=40.6km semi−minor=6.3km azimuth=26						
EIDC	Origin time error = 11.34Error ellipse is semi−major=226.4km semi−minor=129.0km azimuth=19						
ISC	**XII**	**18 02 13 30**±4.8	**8.9S**±.46	**123.7E**±.27	**200**	3.7b	**8 1-28**
EIDC	XII	18 02 12 53.3	6.6S	123.2E	0	3.9L,4.0b	**¶97xii3695**
EIDC	Origin time error = 10.41Error ellipse is semi−major=144.5km semi−minor=111.9km azimuth=128						

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**XII**	**20 03 16 40**±1.3	**8.9S**±.25	**119.2E**±.17	**354**	4.2b	**8**	**1-51**	
DJA	XII	20 03 16 39.8±.92	9.7S	119.0E	354±12.3	4.7D,4.6L			¶97xii4075
DJA	Error ellipse is semi−major=123.2km semi−minor=9.5km azimuth=13								
ISC	**XII**	**21 08 51 50.4**±.82	**8.12S**±.094	**119.78E**±.095	**211**±11	**4.0b**	**17**	**2-113**	
DJA	XII	21 08 51 48.4±.75	9.9S	119.5E	247±10.6	5.0L,4.6D			¶97xii4234
NEIC	XII	21 08 51 49.8	8.15S	119.83E	200	4.0b			
EIDC	XII	21 08 51 55.4±3.40	7.7S	120.6E	231±35.7	3.6b			
DJA	Error ellipse is semi−major=105.0km semi−minor=10.9km azimuth=15								
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi−major=83.5km semi−minor=11.8km azimuth=55								
ISC	**XII**	**26 00 29 14**±1.9	**8.8S**±.20	**123.3E**±.10	**95**±27	3.6b	**11**	**7-29**	
NEIC	XII	26 00 29 13.6	8.75S	123.31E	100	3.7b			¶97xii5014
NEIC	Less reliable solution.								
ISC	**XII**	**26 06 38 38**±8.0	**8.5S**±.66	**123.0E**±.31	**300**±34	3.9b	**9**	**10-31**	
									¶97xii5069

(287) Sumba region.

ISC	**VII**	**14 14 49 34**±2.9	**9.1S**±.72	**120.9E**±.31	**179**±21	**3.9b**	**16**	**5-153**	
EIDC	VII	14 14 49 38.4	8.6S	121.3E	221	3.4b			¶97vii2153
ISC	**VII**	**17 12 42 49.5**±.96	**9.85S**±.043	**119.37E**±.050	**35**±9.8	**4.9b,3.9s**	**103**	**3-152**	
DJA	VII	17 12 42 44.6	10.7S	119.2E	33	6.1L,5.4b			¶97vii2595
EIDC	VII	17 12 42 46.5	9.7S	119.4E	0	4.6b,3.8s			
BJI	VII	17 12 42 47.8	9.96S	119.32E	30	5.1b			
NEIC	VII	17 12 42 49.8	9.87S	119.30E	33	4.8b			
ISC	DJA magnitude values may be overestimated								
EIDC	**VII**	**19 03 07 18.0**	**9.4S**	**120.4E**	**0**	3.4L,4.1b		**17-100**	
									¶97vii2823
ISC	**VII**	**27 10 11 23.6**±.62	**9.36S**±.061	**119.09E**±.064	**95**±11	**4.2b**	**24**	**1-49**	
EIDC	VII	27 10 11 11.9	9.4S	118.6E	0	4.3b,4.1L			¶97vii4093
DJA	VII	27 10 11 21.4	9.3S	118.9E	240	5.5L,4.7D			
NEIC	VII	27 10 11 23.4	9.38S	119.06E	100	4.3b			
ISC	DJA magnitude values may be overestimated								
ISC	**VIII**	**01 10 36 48.8**±.58	**9.23S**±.061	**119.30E**±.061	**90**±14	4.0b	**21**	**1-31**	
NEIC	VIII	01 10 36 49.5	9.21S	119.40E	93	4.0b			¶97viii0051
DJA	VIII	01 10 36 49.8	9.0S	119.2E	200	5.1L,4.7D			
ISC	DJA magnitude calculations may be overestimated								
NEIC	Less reliable solution.								
ISC	**VIII**	**05 20 41 50.1**±.94	**9.73S**±.092	**119.17E**±.081	**33**		**10**	**1-20**	
NEIC	VIII	05 20 41 49.1	9.79S	119.12E	33				¶97viii0710
NEIC	Less reliable solution.								
ISC	**VIII**	**13 23 03 36.6**±.98	**9.87S**±.087	**119.38E**±.071	**54**±25	3.8b	**13**	**1-30**	
EIDC	VIII	13 23 02 31.6	4.9S	115.7E	0	3.7b			¶97viii1972
DJA	VIII	13 23 03 17.6	10.7S	119.8E	400	5.4L,4.6D			
ISC	DJA magnitude calculations may be overestimated								
DJA	**VIII**	**21 13 32 28.8**	**10.8S**	**119.1E**	**80**	4.5D,4.4L		**4-5**	
									¶97viii3102
DJA	**VIII**	**25 06 59 48.5**	**10.6S**	**119.2E**	**400**	4.6D,4.5L		**4-5**	
									¶97viii3664
EIDC	**VIII**	**28 08 53 51.4**	**9.2S**	**120.1E**	**0**	3.4L,4.4b		**17-100**	
									¶97viii4105
ISC	**IX**	**21 00 10 55.7**±.68	**10.04S**±.052	**120.49E**±.063	**54**±9.4	**4.3b**,3.5s	**41**	**0-152**	
EIDC	IX	21 00 10 50.7	9.9S	120.4E	0	4.2b,3.3s			¶97ix3019
NEIC	IX	21 00 10 54.9	10.07S	120.48E	44	4.3b			
DJA	**IX**	**24 13 28 57.7**	**9.3S**	**119.0E**	**160**	4.9L,4.5D			¶97ix3583
ISC	**X**	**04 18 59 40**±1.3	**9.7S**±.28	**120.9E**±.14	**33**		**5**	**1-23**	
									¶97x0707
ISC	**X**	**08 17 13 43.1**±.81	**9.92S**±.089	**119.63E**±.067	**70**±19		**13**	**1-19**	
NEIC	X	08 17 13 41.5	10.05S	119.58E	50	3.6b			¶97x1444
ISC	**X**	**08 18 30 29**±1.3	**9.5S**±.19	**119.01E**±.090	**100**		**6**	**1-5**	
NEIC	X	08 18 30 28.5	9.42S	118.99E	100				¶97x1453
NEIC	Single network solution.								
ISC	**X**	**16 17 02 16**±1.0	**9.2S**±.11	**119.60E**±.085	**33**		**7**	**1-6**	
NEIC	X	16 17 02 15.6	9.22S	119.57E	33				¶97x2859
NEIC	Single network solution.								
ISC	**X**	**25 16 18 07**±1.0	**10.59S**±.099	**120.7E**±.12	**33**		**8**	**1-21**	
NEIC	X	25 16 18 06.2	10.67S	120.54E	33	3.8b			¶97x4347
NEIC	Less reliable solution.								
DJA	**X**	**30 15 21 09.5**	**10.2S**	**119.3E**	**160**	4.6L,4.6D			¶97x5060
DJA	**XI**	**04 10 13 58.6**±.85	**10.2S**	**119.3E**	**160**	**4.7D**,4.7L		**1-5**	
DJA	Error ellipse is semi−major=58.2km semi−minor=8.2km azimuth=6								¶97xi0614
ISC	**XI**	**30 12 36 57**±1.1	**10.4S**±.19	**120.4E**±.13	**33**	3.7b	**10**	**5-21**	
NEIC	XI	30 12 36 56.1	10.40S	120.36E	33	3.6b			¶97xi5412
NEIC	Less reliable solution.								
ISC	**XII**	**02 18 37 34.1**±.90	**9.58S**±.063	**119.58E**±.071	**90**±15	**3.9b**	**29**	**4-70**	
EIDC	XII	02 18 37 26.6±.97	8.4S	120.9E	0	4.2b,3.9L			¶97xii0294
NEIC	XII	02 18 37 33.5	9.63S	119.54E	99	3.9b			
BJI	XII	02 18 37 35.0	9.27S	120.11E	99				
EIDC	Error ellipse is semi−major=45.7km semi−minor=17.2km azimuth=56								
ISC	**XII**	**03 03 56 14.0**±.62	**9.88S**±.078	**120.72E**±.077	**33**	3.8b	**13**	**0-29**	
NEIC	XII	03 03 56 13.8	9.88S	120.69E	33	4.9b			¶97xii0359
EIDC	XII	03 03 56 28.3±8.77	10.4S	121.5E	66±70.5	3.8L,3.6b			
EIDC	Error ellipse is semi−major=76.8km semi−minor=48.9km azimuth=44								

(288) Savu Sea.

ISC	**VIII**	**03 02 28 24**±1.8	**9.3S**±.28	**122.7E**±.12	**33**	4.1b	**5**	**2-29**	
NEIC	VIII	03 02 28 24.1	9.29S	122.65E	33				¶97viii0287
EIDC	VIII	03 02 28 40.0	9.7S	123.4E	114	3.9b,3.3L			
NEIC	Less reliable solution.								
ISC	**VIII**	**28 07 41 04**±2.6	**9.3S**±.38	**122.5E**±.18	**180**±19		**6**	**1-20**	
									¶97viii4102
ISC	**VIII**	**29 09 57 36**±1.7	**9.1S**±.14	**121.5E**±.19	**43**±37	3.9b	**7**	**1-29**	
NEIC	VIII	29 09 57 35.2	9.11S	121.51E	33	3.8b			¶97viii4273
NEIC	Less reliable solution.								
ISC	**IX**	**13 14 18 00**±1.9	**10.6S**±.26	**121.8E**±.51	**0**	**4.3b**	**6**	**8-60**	
EIDC	IX	13 14 18 02.7	10.5S	122.0E	0	4.3b,3.4L			¶97ix1985
ISC	**IX**	**22 19 58 06**±1.8	**10.0S**±.19	**121.9E**±.13	**33**		**8**	**2-20**	
									¶97ix3324

(289) Timor.

ISC	**VII**	**01 23 04 32**±1.0	**8.8S**±.17	**124.1E**±.24	**33**	3.7b	**9**	**8-82**	
EIDC	VII	01 23 04 28.8	9.0S	123.8E	0	3.8b,4.4L			¶97vii0153
NEIC	VII	01 23 04 31.6	8.82S	124.12E	33	4.1b			
NEIC	Less reliable solution.								
ISC	**VII**	**08 12 10 58**±8.0	**9.6S**±.62	**126.3E**±.37	**33**	3.7b	**6**	**8-26**	
EIDC	VII	08 12 10 48.5	9.0S	126.0E	0	3.4L,4.1b			¶97vii1184
EIDC	**VII**	**20 07 07 31.4**	**8.6S**	**125.1E**	**0**	3.3L,3.9b		**14-28**	
ISC	**VII**	**22 16 53 58**±1.9	**9.5S**±.23	**123.8E**±.11	**33**		**7**	**3-19**	
NEIC	VII	22 16 53 58.1	9.51S	123.83E	33	3.8b			¶97vii3397
NEIC	Less reliable solution.								
ISC	**VII**	**27 08 00 39**±1.7	**9.6S**±.13	**124.37E**±.094	**90**±23	**3.9b**	**14**	**4-38**	
EIDC	VII	27 08 00 30.5	9.6S	124.1E	0	4.1b,4.5L			¶97vii4081
NEIC	VII	27 08 00 39.0	9.66S	124.38E	100	4.5b			
NEIC	Less reliable solution.								
ISC	**VII**	**30 01 04 24**±1.8	**9.3S**±.14	**124.11E**±.081	**51**±22	**3.9b**	**20**	**4-145**	
EIDC	VII	30 01 04 13.0	9.1S	123.4E	0	4.0L,4.0b			¶97vii4511
NEIC	VII	30 01 04 24.1	9.36S	124.11E	50	3.9b			
ISC	**VIII**	**07 18 06 36**±3.8	**8.8S**±.39	**124.5E**±.19	**33**	3.7b	**7**	**4-28**	
EIDC	VIII	07 18 06 48.0	10.2S	124.5E	0	4.3L,4.0b			¶97viii0985
NEIC	**VIII**	**19 03 05 40.7**	**8.26S**	**127.88E**	**150**	**4.5b**		**7-27**	
EIDC	VIII	19 03 05 44.3	8.7S	127.3E	160	4.1b			¶97viii2751
NEIC	Poor solution.								
ISC	**IX**	**06 13 34 47**±3.4	**8.1S**±.37	**126.8E**±.24	**320**±25	4.1b	**11**	**4-33**	
EIDC	IX	06 13 33 42.3	4.6S	124.7E	0	4.6b,4.6L			¶97ix0918
ISC	**IX**	**06 20 56 57**±1.9	**9.2S**±.10	**125.0E**±.12	**61**±20	**3.9b**	**23**	**2-152**	
EIDC	IX	06 20 56 51.3	9.2S	124.8E	0	4.0b,4.4L			¶97ix0965
NEIC	IX	06 20 56 56.0	9.16S	125.07E	56	4.2b			
NEIC	Less reliable solution.								
ISC	**IX**	**06 20 57 52.5**±.58	**9.10S**±.078	**124.8E**±.16	**33**	**4.2b**	**18**	**9-145**	
EIDC	IX	06 20 57 50.0	9.0S	124.8E	0	4.1b,4.7L			¶97ix0966
ISC	**IX**	**07 15 54 15**±1.5	**9.14S**±.092	**123.76E**±.083	**71**±15	**4.0b**	**30**	**3-152**	
NEIC	IX	07 15 54 15.2	9.13S	123.84E	72	4.4b			¶97ix1099
EIDC	IX	07 15 54 16.4	9.1S	123.7E	62	4.0b,4.6L			
NEIC	Less reliable solution.								
EIDC	**IX**	**16 18 27 26.0**	**9.0S**	**125.8E**	**0**	3.7L,3.6b			¶97ix2415
EIDC	LO CONF Location								
ISC	**X**	**05 17 26 06.6**±.96	**10.6S**±.26	**124.2E**±.25	**0**	3.4b	**7**	**1-71**	
EIDC	X	05 17 26 07.7	10.9S	123.8E	0	3.7L,3.4b			¶97x0894
EIDC	**X**	**09 05 36 04.4**	**8.2S**	**127.4E**	**0**	3.7L,3.7b			¶97x1533
ISC	**X**	**16 00 04 02.7**±.92	**9.25S**±.099	**126.1E**±.28	**33**	**4.2b**	**7**	**9-83**	
NEIC	X	16 00 04 02.7	9.26S	126.06E	33	4.4b			¶97x2750
EIDC	X	16 00 04 05.1	9.5S	125.6E	44	4.0b,4.0L			
NEIC	Less reliable solution.								
ISC	**X**	**27 04 19 07.7**±.94	**9.26S**±.054	**125.19E**±.069	**39**±11	**4.3b**,4.0s	**38**	**5-151**	
EIDC	X	27 04 19 04.6	9.1S	124.9E	0	4.3b,4.0s			¶97x4567
BJI	X	27 04 19 14.0	9.70S	124.70E	150	4.5b			
NEIC	X	27 04 19 16.0	9.71S	124.74E	150	4.4b			
NEIC	Less reliable solution.								
EIDC	**X**	**28 00 48 49.0**	**9.5S**	**125.6E**	**0**	3.4L,3.7b			¶97x4678
ISC	**X**	**28 13 27 51.2**±.28	**8.71S**±.040	**124.13E**±.064	**33**	**4.6b**	**63**	**8-152**	
BJI	X	28 13 27 44.1	9.59S	124.45E	33	4.7b			¶97x4764
EIDC	X	28 13 27 47.6	8.7S	124.0E	0	4.5b,4.9L			
NEIC	X	28 13 27 51.0	8.67S	124.07E	33	4.7b			
ISC	**XI**	**23 11 48 50**±4.6	**8.6S**±.40	**127.5E**±.22	**33**	3.8b	**7**	**7-27**	
NEIC	XI	23 11 48 50.2	8.63S	127.36E	33	3.5b			¶97xi4110
EIDC	XI	23 11 48 53.2	9.1S	127.6E	0	3.9L,4.0b			
NEIC	Poor solution.								
ISC	**XI**	**25 08 30 38.9**±.88	**10.83S**±.086	**123.29E**±.093	**33**	3.5b	**10**	**1-27**	
NEIC	XI	25 08 30 38.8	10.83S	123.28E	33	3.7b			¶97xi4472
NEIC	Less reliable solution.								
ISC	**XI**	**26 04 21 58**±1.2	**8.98S**±.051	**124.25E**±.080	**72**±12	**4.5b**	**55**	**4-154**	
BJI	XI	26 04 21 56.0	9.42S	123.50E	71	4.9b			¶97xi4630
NEIC	XI	26 04 21 58.9	9.05S	124.40E	84	4.9b			
EIDC	XI	26 04 22 01.4	8.9S	123.9E	83	4.2b			
ISC	**XII**	**01 13 06 49**±3.8	**8.8S**±.28	**124.4E**±.20	**54**±42	3.6b	**12**	**8-37**	
EIDC	XII	01 13 06 44.2±1.74	8.5S	124.7E	0	4.0L,3.8b			¶97xii0089
NEIC	XII	01 13 06 53.0	9.14S	124.11E	100	3.9b			
EIDC	Error ellipse is semi−major=97.7km semi−minor=21.7km azimuth=56								
NEIC	Less reliable solution.								
ISC	**XII**	**12 00 41 00**±7.8	**8.1S**±.61	**128.0E**±.39	**33**	3.4b	**5**	**8-27**	
EIDC	XII	12 00 41 00.0±5.94	8.0S	128.7E	0	4.0L,3.8b			¶97xii2672
EIDC	Error ellipse is semi−major=121.2km semi−minor=70.3km azimuth=75								
EIDC	**XII**	**17 03 07 50.5**±4.21	**8.2S**	**125.1E**	**0**	4.2L,4.3b		**15-28**	
									¶97xii3544
EIDC	Error ellipse is semi−major=171.1km semi−minor=40.6km azimuth=63LO CONF Location								
ISC	**XII**	**23 23 48 58**±1.4	**8.7S**±.25	**127.1E**±.31	**33**	3.4b	**7**	**7-39**	
EIDC	XII	23 23 48 54.8±2.39	8.6S	127.2E	0	3.6b,3.8L			¶97xii4671
NEIC	XII	23 23 48 57.5	8.73S	127.13E	33	4.3b			
EIDC	Error ellipse is semi−major=176.4km semi−minor=24.1km azimuth=54								
NEIC	Poor solution.								
ISC	**XII**	**29 13 06 33**±1.0	**9.5S**±.12	**124.9E**±.13	**33**	**3.9b**	**8**	**1-70**	
EIDC	XII	29 13 06 29.8±1.36	9.5S	125.0E	0	4.1L,4.0b			¶97xii5586
NEIC	XII	29 13 06 32.7	9.49S	124.94E	33				
EIDC	Error ellipse is semi−major=57.0km semi−minor=19.5km azimuth=66								
NEIC	Less reliable solution.								
ISC	**XII**	**29 13 48 15**±2.3	**10.0S**±.26	**124.8E**±.12	**33**		**5**	**1-16**	
									¶97xii5589

(290) Timor Sea.

ISC	**VII**	**13 02 24 27**±3.9	**8.4S**±.20	**129.7E**±.27	**179**±47	3.6b	**8**	**7-45**	
EIDC	VII	13 02 24 10.7	8.1S	128.7E	0	4.6L,3.8b			¶97vii1911
NEIC	VII	13 02 24 25.2	8.31S	129.72E	150	4.2b			
NEIC	Poor solution.								
ISC	**VII**	**20 14 46 12.0**±.71	**9.11S**±.079	**127.3E**±.14	**100**	**3.7b**	**20**	**6-144**	
NEIC	VII	20 14 46 11.4	9.21S	127.10E	100	4.2b			¶97vii3104
EIDC	VII	20 14 46 15.4	9.1S	127.8E	123	3.5b			
NEIC	Less reliable solution.								
ISC	**VII**	**29 21 19 55**±7.6	**9.0S**±.60	**128.7E**±.43	**33**	3.4b	**7**	**5-26**	
EIDC	VII	29 21 19 46.1	8.7S	128.3E	0	3.8L,3.7b			¶97vii4484
ISC	**IX**	**02 05 56 41**±8.0	**9.0S**±.64	**127.9E**±.31	**33**	3.7b	**5**	**9-26**	
EIDC	IX	02 05 56 34.7	8.4S	128.3E	0	3.7L,4.0b			¶97ix0227
ISC	**IX**	**06 01 15 38.1**±.87	**8.86S**±.096	**129.3E**±.17	**33**	**4.0b**	**14**	**7-150**	
EIDC	IX	06 01 15 36.5	9.2S	128.5E	0	3.9b,4.3L			¶97ix0834
NEIC	IX	06 01 15 37.3	8.81S	129.32E	33	4.4b			
NEIC	Less reliable solution.								
ISC	**IX**	**06 19 55 58**±2.3	**10.0S**±.24	**125.2E**±.12	**33**	3.8b	**10**	**2-27**	
NEIC	IX	06 19 55 57.4	10.03S	125.19E	33	4.0b			¶97ix0959
EIDC	IX	06 19 56 03.7	10.8S	125.1E	0	4.3L,4.1b			
NEIC	Poor solution.								
EIDC	**IX**	**08 08 06 16.0**	**8.1S**	**129.4E**	**0**	3.5L,4.0b			¶97ix1195
ISC	**IX**	**13 13 07 11**±1.7	**8.5S**±.18	**129.1E**±.27	**33**	3.6b	**5**	**10-40**	
EIDC	IX	13 13 07 09.7	8.8S	128.5E	0	3.7b,3.6L			¶97ix1974
EIDC	**IX**	**28 15 29 57.5**	**8.3S**	**129.9E**	**0**	3.5L,4.0b			¶97ix4683
EIDC	LO CONF Location								

ISC	**X**	**03 18 14 30.3**±.93	**9.1S**±.13	**127.2E**±.16	**33**	**4.0b**	**12**	**6-72**
EIDC	X	03 18 14 28.1	9.1S	127.1E	0	4.1b,4.0L		¶97x0502
ISC	**X**	**05 14 50 32**±1.4	**9.3S**±.25	**127.1E**±.28	**33**	3.8b	**7**	**6-39**
EIDC	X	05 14 50 30.4	9.4S	126.7E	0	3.5L,4.0b		¶97x0875
ISC	**X**	**17 10 54 52**±7.2	**8.1S**±.58	**128.5E**±.25	**33**	3.8b	**10**	**6-27**
EIDC	X	17 10 54 50.4	8.1S	128.6E	0	4.5L,4.1b		¶97x2965
ISC	**X**	**20 02 33 13**±1.4	**10.16S**±.098	**130.6E**±.20	**33**	4.0b	**9**	**5-24**
								¶97x3421
ISC	**XI**	**23 17 10 15**±1.8	**9.5S**±.17	**130.5E**±.24	**33**	3.2b	**5**	**10-42**
EIDC	XI	23 17 10 11.5	9.3S	130.7E	0	3.5L,3.4b		¶97xi4158
EIDC	Multiple, same az							
ISC	**XI**	**29 15 17 43**±1.0	**8.29S**±.037	**128.18E**±.043	**37**±9.9	**5.0b,5.0s**	**173**	**5-158**
DJA	XI	29 15 17 39.3±.32	9.0S	128.4E	33	5.8b,5.5D		¶97xi5286
NEIC	XI	29 15 17 41.7	8.29S	128.17E	25	5.2b,4.9s		
EIDC	XI	29 15 17 42.3	8.3S	128.1E	11	4.9b,5.1L		
MOS	XI	29 15 17 43.3	8.2S	128.1E	33	5.6b		
BJI	XI	29 15 17 44.0	8.14S	128.29E	45	5.1b,5.2s		
DJA	Error ellipse is semi−major=17.6km semi−minor=4.8km azimuth=174							
EIDC	**XII**	**02 22 49 07.4**±5.63	**9.1S**	**130.3E**	**0**	**3.5L,**3.9b		**10-25**
								¶97xii0324
EIDC	Error ellipse is semi−major=69.0km semi−minor=62.8km azimuth=175							
ISC	**XII**	**03 07 40 44.8**±.48	**8.79S**±.056	**129.7E**±.13	**33**	**4.4b,**3.4s	**24**	**7-149**
BJI	XII	03 07 40 42.4	8.94S	129.42E	24	4.5b		¶97xii0379
EIDC	XII	03 07 40 42.4±.73	8.9S	129.3E	0	4.5b,4.1L		
NEIC	XII	03 07 40 45.1	8.75S	129.64E	33	4.6b		
EIDC	Error ellipse is semi−major=35.8km semi−minor=15.1km azimuth=66							
NEIC	Poor solution.							
ISC	**XII**	**14 03 42 44**±3.4	**9.9S**±.17	**127.6E**±.13	**118**±35	**3.8b**	**14**	**6-150**
EIDC	XII	14 03 42 34.2±1.04	9.5S	127.7E	0	3.9b,4.0L		¶97xii3079
NEIC	XII	14 03 42 42.8	9.86S	127.56E	100	4.3b		
EIDC	Error ellipse is semi−major=48.6km semi−minor=17.7km azimuth=66							
NEIC	Less reliable solution.							
ISC	**XII**	**17 07 29 33**±7.6	**9.7S**±.62	**129.4E**±.24	**33**	3.7b	**7**	**9-25**
EIDC	XII	17 07 29 23.2±5.77	9.0S	129.2E	0	3.9L,3.9b		¶97xii3572
EIDC	Error ellipse is semi−major=71.1km semi−minor=67.3km azimuth=14							
ISC	**XII**	**22 09 05 04**±4.0	**9.5S**±.32	**130.0E**±.26	**33**	4.0b	**5**	**10-25**
EIDC	XII	22 09 05 04.4±4.81	9.5S	130.1E	0	3.7L,4.1b		¶97xii4390
EIDC	Error ellipse is semi−major=63.0km semi−minor=34.8km azimuth=141							
ISC	**XII**	**30 18 53 35**±3.8	**8.0S**±.33	**128.5E**±.14	**137**±21	4.2b	**10**	**5-32**
NEIC	XII	30 18 53 30.0	7.74S	128.61E	100	4.1b		¶97xii5776
NEIC	Poor solution.							

(291) South of Sumbawa.

ISC	**VII**	**06 20 27 28.5**±.56	**11.56S**±.053	**118.1E**±.10	**33**		**17**	**4-23**
NEIC	VII	06 20 27 28.7	11.59S	118.25E	33	4.6b		¶97vii0931
DJA	VII	06 20 27 33.1	11.4S	117.9E	80	5.9L,5.2b		
ISC	DJA magnitude values may be overestimated							
NEIC	Poor solution.							
ISC	**VII**	**10 14 53 07**±2.3	**11.22S**±.034	**118.02E**±.037	**2**±14	**5.4b,5.0s**	**204**	**3-152**
EIDC	VII	10 14 53 07.8	11.2S	118.1E	0	5.1b,4.9s		¶97vii1524
BJI	VII	10 14 53 10.4	11.21S	118.12E	31	5.6b,4.8s		
DJA	VII	10 14 53 10.9	11.5S	117.8E	33	6.1b,5.5D		
MOS	VII	10 14 53 11.2	11.2S	118.0E	33	6.0b		
NEIC	VII	10 14 53 11.5	11.26S	118.00E	33	5.4b,5.5s		
HRVD	VII	10 14 53 19.3±.4	11.06S±.04	117.89E±.07	35			
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c31; Half duration: 1$\hat{s}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.61±.11; $M_{\theta\theta}$0.53±.07; $M_{\phi\phi}$1.07±.18; $M_{r\theta}$−0.53±.15; $M_{r\phi}$−0.26±.10; $M_{\theta\phi}$0.49±.08. Principal Axes: T 1.44,Plg9°,Azm123°; N 0.30, Plg9°,Azm215°; P −1.74,Plg77°,Azm346°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S203°,δ36°,λ−105°. NP2:ϕ_S41°,δ55°,λ−80°.							
ISC	**VII**	**11 07 45 41.4**±.84	**11.5S**±.10	**117.7E**±.17	**33**		**12**	**3-20**
								¶97vii1645
ISC	**VII**	**17 07 46 13.7**±.74	**11.20S**±.042	**116.76E**±.059	**55**±8.4	**4.7b,3.7s**	**55**	**3-152**
NEIC	VII	17 07 46 11.7	11.15S	116.83E	33	4.5b		¶97vii2568
BJI	VII	17 07 46 14.4	10.72S	117.19E	40	5.1b		
DJA	VII	17 07 46 16.5	11.0S	116.5E	160	5.9L,4.8D		
EIDC	VII	17 07 46 17.3	10.9S	117.0E	60	4.3b,3.5s		
ISC	DJA magnitude values may be overestimated							
ISC	**VII**	**24 11 04 55**±1.6	**11.6S**±.17	**118.2E**±.31	**33**		**7**	**4-18**
								¶97vii3662
ISC	**VII**	**24 15 22 09**±1.3	**11.45S**±.080	**117.8E**±.16	**33**		**10**	**3-20**
NEIC	VII	24 15 22 08.7	11.45S	117.78E	33	3.5b		¶97vii3687
NEIC	Less reliable solution.							
ISC	**VIII**	**02 18 35 20**±1.5	**11.4S**±.20	**117.5E**±.30	**161**±57		**8**	**3-18**
								¶97viii0247
ISC	**VIII**	**04 05 03 18.4**±.66	**11.74S**±.087	**117.0E**±.14	**33**		**10**	**3-19**
NEIC	VIII	04 05 03 17.5	11.28S	117.55E	33	3.7b		¶97viii0460
NEIC	Less reliable solution.							
ISC	**VIII**	**04 23 09 18.7**±.89	**11.6S**±.10	**118.1E**±.17	**33**		**12**	**4-20**
NEIC	VIII	04 23 09 16.7	11.01S	118.55E	33	4.2b		¶97viii0571
NEIC	Less reliable solution.							
ISC	**VIII**	**06 09 11 13.6**±.48	**10.58S**±.055	**116.89E**±.079	**33**	**4.2b**	**24**	**2-86**
EIDC	VIII	06 09 11 10.7	10.3S	116.9E	0	4.2b,3.7L		¶97viii0778
NEIC	VIII	06 09 11 15.7	10.75S	117.02E	33	3.9b		
NEIC	Less reliable solution.							
ISC	**VIII**	**13 16 37 19.6**±.81	**11.7S**±.11	**117.7E**±.18	**33**		**11**	**4-18**
NEIC	VIII	13 16 37 23.8	11.97S	117.88E	33	3.8b		¶97viii1938
NEIC	Less reliable solution.							
DJA	**VIII**	**15 12 54 01.9**	**10.9S**	**116.7E**	**320**	4.6L,4.5D		**3-4**
								¶97viii2222
ISC	**VIII**	**26 10 08 12.1**±.42	**11.61S**±.044	**116.13E**±.065	**71**	**4.4b**	**41**	**3-152**
EIDC	VIII	26 10 08 09.4	11.2S	116.6E	0	4.3b,4.1L		¶97viii3832
BJI	VIII	26 10 08 10.0	11.60S	116.30E	33	4.8b		
NEIC	VIII	26 10 08 10.0	11.67S	116.40E	33	4.3b		
DJA	VIII	26 10 08 10.2	11.8S	116.2E	71	5.4L,4.6D		
ISC	DJA magnitude calculations may be overestimated							
NEIC	Less reliable solution.							
ISC	**VIII**	**26 11 47 04**±1.7	**10.1S**±.14	**118.83E**±.083	**37**±41		**8**	**1-19**
								¶97viii3841
ISC	**VIII**	**27 04 18 34.8**±.73	**10.24S**±.085	**118.8E**±.10	**33**		**12**	**3-20**
								¶97viii3940
ISC	**VIII**	**27 17 59 10**±1.2	**11.4S**±.14	**118.4E**±.21	**33**		**7**	**4-18**
								¶97viii4019
EIDC	**VIII**	**31 18 38 50.2**	**12.9S**	**117.4E**	**0**	3.5L		**18-148**
								¶97viii4693
DJA	**IX**	**04 16 58 52.8**	**11.9S**	**116.7E**	**33**	**4.7D,**4.3L		¶97ix0611
DJA	**IX**	**15 21 35 43.3**	**10.6S**	**118.3E**	**160**	4.7D,4.5L		¶97ix2287
ISC	**IX**	**17 16 34 58.9**±.59	**11.48S**±.051	**117.6E**±.11	**33**		**14**	**3-21**
NEIC	IX	17 16 34 58.0	11.53S	117.58E	33			¶97ix2531
NEIC	Less reliable solution.							
DJA	**IX**	**20 19 52 03.0**	**10.7S**	**117.2E**	**240**	4.5D,4.0L		¶97ix2996
DJA	**X**	**02 17 20 07.1**	**11.8S**	**117.9E**	**80**	4.5D,4.1L		¶97x0318
DJA	**X**	**03 09 34 40.5**	**11.7S**	**117.9E**	**33**	**5.4L,4.5D**		¶97x0440
DJA	**X**	**06 01 46 21.7**	**10.6S**	**117.6E**	**160**	4.5D,4.0L		¶97x0965
DJA	**X**	**07 12 02 30.3**	**10.3S**	**118.2E**	**160**	4.5D,4.3L		¶97x1244
ISC	**X**	**09 08 57 44.6**±.83	**11.6S**±.14	**118.3E**±.17	**33**	3.6b	**8**	**4-29**
NEIC	X	09 08 57 44.4	11.62S	118.32E	33	4.2b		¶97x1561
EIDC	X	09 08 57 56.0	11.9S	119.4E	0	3.3L,3.8b		
NEIC	Less reliable solution.							
ISC	**X**	**09 18 01 47.3**±.68	**11.62S**±.073	**118.30E**±.098	**33**		**12**	**3-20**
NEIC	X	09 18 01 47.3	11.63S	118.30E	33	4.0b		¶97x1613
NEIC	Less reliable solution.							
ISC	**X**	**16 10 06 19.6**±.89	**11.54S**±.056	**117.41E**±.062	**38**±13	**4.2b,**3.5s	**34**	**3-71**
EIDC	X	16 10 06 16.6	11.3S	117.5E	0	4.1b,3.8L		¶97x2818
NEIC	X	16 10 06 19.3	11.55S	117.43E	33	4.2b		
ISC	**X**	**19 06 16 40**±3.1	**11.4S**±.15	**117.3E**±.53	**33**		**5**	**3-11**
								¶97x3302
ISC	**X**	**23 13 48 53**±1.8	**11.6S**±.41	**118.0E**±.58	**33**		**4**	**4-17**
DJA	X	23 13 48 52.7	11.6S	118.1E	33	4.7D,4.7L		¶97x4005
ISC	Poorly determined							
DJA	**X**	**25 00 11 33.3**	**10.9S**	**117.2E**	**33**	4.7L,4.5D		¶97x4241
DJA	**X**	**26 03 55 20.8**	**10.1S**	**118.6E**	**240**	4.6D,4.5L		¶97x4411
ISC	**X**	**27 21 54 00.9**±.57	**11.62S**±.052	**116.8E**±.10	**33**		**14**	**3-20**
NEIC	X	27 21 54 00.8	11.60S	116.76E	33	3.8b		¶97x4664
ISC	**XI**	**09 00 00 38**±1.1	**10.2S**±.11	**116.5E**±.13	**33**	**4.1b**	**16**	**12-93**
EIDC	XI	09 00 00 35.5	10.1S	116.6E	0	4.0b,4.1L		¶97xi1366
NEIC	XI	09 00 00 38.0	10.20S	116.47E	33	4.2b		
NEIC	Less reliable solution.							
ISC	**XI**	**10 16 37 10.6**±.89	**11.0S**±.11	**119.0E**±.13	**33**		**12**	**4-20**
NEIC	XI	10 16 37 09.5	10.93S	119.02E	33	3.8b		¶97xi1640
NEIC	Poor solution.							
ISC	**XI**	**22 08 46 46**±1.9	**10.3S**±.18	**118.75E**±.086	**80**		**9**	**2-16**
DJA	XI	22 08 46 46.4±.52	10.3S	118.8E	80	4.6D,4.2L		¶97xi3840
NEIC	XI	22 08 46 47.0	10.15S	118.73E	33	4.0b		
DJA	Error ellipse is semi−major=15.4km semi−minor=5.8km azimuth=169							
ISC	**XI**	**26 16 13 41**±2.1	**10.1S**±.27	**119.0E**±.11	**183**		**6**	**1-6**
DJA	XI	26 16 13 40.8±.80	10.0S	118.9E	183±9.7	4.5D,4.3L		¶97xi4717
NEIC	XI	26 16 13 43.1	9.90S	118.89E	150			
DJA	Error ellipse is semi−major=18.4km semi−minor=6.8km azimuth=175							
NEIC	Single network solution.							
EIDC	**XI**	**27 22 16 20.1**	**10.5S**	**118.3E**	**0**	3.7L,4.4b		¶97xi4944
ISC	**XII**	**02 07 49 01.7**±.89	**11.8S**±.14	**117.0E**±.20	**33**		**7**	**3-19**
NEIC	XII	02 07 49 01.6	11.78S	117.01E	33			¶97xii0210
NEIC	Less reliable solution.							
ISC	**XII**	**05 03 42 29**±2.2	**10.3S**±.24	**118.9E**±.11	**160**		**7**	**1-7**
DJA	XII	05 03 42 29.2±.51	10.3S	118.9E	160	4.8L,4.6D		¶97xii0769
DJA	Error ellipse is semi−major=17.1km semi−minor=6.1km azimuth=175							
ISC	**XII**	**18 17 03 44.7**±.75	**10.35S**±.072	**118.81E**±.063	**54**±12	**4.0b**	**19**	**2-70**
EIDC	XII	18 17 03 40.2±1.76	10.1S	118.9E	0	4.1b,3.7L		¶97xii3795
NEIC	XII	18 17 03 44.9	10.36S	118.83E	56			
EIDC	Error ellipse is semi−major=112.5km semi−minor=17.5km azimuth=52							
ISC	**XII**	**19 08 05 11.2**±.78	**11.7S**±.11	**117.4E**±.17	**33**		**8**	**3-20**
								¶97xii3916
ISC	**XII**	**19 22 11 53**±1.6	**11.32S**±.045	**118.79E**±.056	**27**±13	**4.5b,**3.6s	**54**	**2-150**
BJI	XII	19 22 11 54.1	11.30S	118.80E	33	5.1b		¶97xii4040
NEIC	XII	19 22 11 54.1	11.34S	118.82E	33	4.8b		
EIDC	XII	19 22 11 58.1±.69	11.2S	118.9E	48±6.3	4.1b,3.6s		
EIDC	Error ellipse is semi−major=32.0km semi−minor=15.2km azimuth=68							
ISC	**XII**	**26 21 16 53**±1.4	**11.2S**±.13	**119.0E**±.19	**33**		**9**	**4-21**
NEIC	XII	26 21 16 51.8	10.82S	119.07E	33	3.8b		¶97xii5197
NEIC	Less reliable solution.							

(292) South of Sumba.

DJA	**VII**	**17 02 43 32.3**	**11.0S**	**120.4E**	**76**	4.9L,4.6D		**5-152**
EIDC	VII	17 02 43 48.3	9.2S	121.8E	145	3.9b		¶97vii2535
ISC	**VII**	**30 14 54 54.7**±.90	**11.23S**±.080	**119.1E**±.11	**33**		**8**	**2-18**
NEIC	VII	30 14 54 54.6	11.23S	119.14E	33	3.6b		¶97vii4592
NEIC	Less reliable solution.							
DJA	**VII**	**31 23 01 52.1**	**11.5S**	**120.7E**	**160**	4.6D,4.3L		**5-7**
								¶97vii4799
ISC	**IX**	**03 09 39 59.0**±.85	**12.1S**±.48	**119.3E**±.39	**33**	3.9b	**9**	**5-28**
EIDC	IX	03 09 38 54.7	5.9S	117.4E	0	4.1b		¶97ix0413
DJA	IX	03 09 39 52.6	11.6S	119.4E	400	5.1L,4.7D		
EIDC	LO CONF Location							
ISC	**XII**	**03 13 11 11.5**±.53	**11.66S**±.056	**119.66E**±.077	**33**	3.6b	**20**	**2-29**
NEIC	XII	03 13 11 10.3	11.54S	119.75E	33	3.5b		¶97xii0427
DJA	XII	03 13 11 15.6±1.57	11.0S	119.1E	320	5.2L,4.7D		
EIDC	XII	03 13 11 24.7±5.18	11.7S	121.3E	0	3.7L,3.8b		
NEIC	Less reliable solution.							
DJA	Error ellipse is semi−major=49.8km semi−minor=38.7km azimuth=43							
EIDC	Error ellipse is semi−major=117.3km semi−minor=58.7km azimuth=49							
ISC	**XII**	**08 12 27 36.3**±.97	**11.65S**±.084	**120.4E**±.13	**33**		**9**	**2-19**
DJA	XII	08 12 27 28.8±1.70	13.1S	119.9E	33	5.6L,4.7D		¶97xii1925
DJA	Error ellipse is semi−major=56.8km semi−minor=7.9km azimuth=4							
ISC	**XII**	**28 17 57 42**±1.3	**11.70S**±.088	**120.1E**±.18	**33**		**6**	**2-18**
								¶97xii5478

(293) South of Timor.

EIDC	**VIII**	**05 22 53 34.0**	**11.3S**	**122.5E**	**0**	3.5L,4.3b		**3-27**
								¶97viii0731
ISC	**VIII**	**15 09 28 25**±1.6	**11.7S**±.13	**122.0E**±.23	**33**		**7**	**3-18**
NEIC	VIII	15 09 28 25.0	11.70S	122.02E	33	4.5b		¶97viii2192
NEIC	Less reliable solution.							
ISC	**XI**	**24 12 43 21**±1.0	**11.8S**±.11	**122.78E**±.092	**33**		**9**	**3-18**
NEIC	XI	24 12 43 21.4	11.75S	122.78E	33	3.9b		¶97xi4317
NEIC	Less reliable solution.							

SEISMIC REGION 25.
MYANMAR AND SOUTHEAST ASIA.

(294) Myanmar-India border region.

ISC	**VII**	**15 02 57 47**±1.3	**24.3N**±.23	**93.0E**±.26	**33**	**3.6b**	**5**	**8-60**
EIDC	VII	15 02 57 44.8	24.7N	93.3E	0	3.7b		¶97vii2241
ISC	**VII**	**15 18 45 14**±3.4	**23.2N**±.32	**94.4E**±.30	**85**±29	**3.9b**	**8**	**6-84**
EIDC	VII	15 18 45 17.1	23.2N	94.4E	93	3.7b		¶97vii2335

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
ISC	**VII**	**24 23 19 34**±1.0		**26.09N**±.059	**95.67E**±.061	**100**±11	**4.1b**	**40**	**3-98**
BJI	VII	24 23 19 33.7		26.18N	95.67E	93	4.7b		¶97vii3733
NEIC	VII	24 23 19 33.7		26.08N	95.72E	92	4.5b		
EIDC	VII	24 23 19 36.4		26.1N	95.8E	97	3.8b		
EIDC	**VII**	**28 12 35 57.3**		**24.1N**	**93.8E**	**0**	**3.6b**		**7-80**
									¶97vii4273
ISC	**VII**	**31 15 59 37.0**±.14		**23.91N**±.029	**93.22E**±.027	**33**	**5.3b,4.7s**	**410**	**6-161**
EIDC	VII	31 15 59 34.7		24.0N	93.2E	5	5.1b,4.5s		¶97vii4757
MOS	VII	31 15 59 35.6		23.7N	93.3E	33	5.7b,4.7s		
BJI	VII	31 15 59 37.0		24.18N	93.14E	23	5.2L,5.0b		
NEIC	VII	31 15 59 37.0		23.89N	93.16E	33	5.5b,4.8s		
HRVD	VII	31 15 59 39.7±.1		23.80N±.02	93.43E±.01	42±1.6			
BJI	Ms5.0								
NEIC	Mw5.3(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c13; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.92±.76; $M_{\theta\theta}$1.24±1.47; $M_{\phi\phi}$−4.16±1.03; $M_{r\theta}$−3.27±1.36; $M_{r\phi}$−7.60±1.90; $M_{\theta\phi}$0.27±.77. Principal Axes: T 8.88,Plg54°,Azm126°; N 0.35,Plg12°,Azm19°; P −9.24,Plg34°,Azm280°. Best double couple: $M_0$9.1×10^{16}Nm, NP1: ϕ_S330°,δ16°,λ40°. NP2:ϕ_S201°,δ80°,λ103°.								
ISC	**VII**	**31 20 09 00**±1.6		**23.89N**±.073	**93.20E**±.079	**46**±15	**4.3b,**3.0s	**56**	**6-153**
BJI	VII	31 20 08 57.6		23.92N	92.93E	32	4.4b		¶97vii4784
MOS	VII	31 20 08 57.9		23.8N	93.2E	33	4.7b		
NEIC	VII	31 20 08 58.0		23.86N	93.10E	33	4.5b		
EIDC	VII	31 20 09 02.0		23.7N	92.9E	51	4.0b,4.0L		
BJI	**VIII**	**01 15 18 04.8**		**25.91N**	**95.81E**	**15**	**3.6L,3.8s**		**¶97viii0083**
ISC	**VIII**	**05 23 48 53**±2.5		**24.4N**±.13	**94.7E**±.17	**85**±26	**3.9b**	**18**	**7-144**
NEIC	VIII	05 23 48 54.2		24.39N	94.72E	100	4.3b		¶97viii0737
EIDC	VIII	05 23 48 55.5		24.3N	94.6E	94	3.7b		
NEIC	Less reliable solution.								
ISC	**VIII**	**08 10 27 56**±2.8		**22.0N**±.15	**93.6E**±.25	**90**±24	**4.2b**	**24**	**6-126**
BJI	VIII	08 10 27 52.7		21.97N	93.71E	63	4.0b		¶97viii1095
NEIC	VIII	08 10 27 53.4		22.03N	93.59E	68	4.4b		
EIDC	VIII	08 10 27 55.5		22.1N	93.6E	69	3.9b		
NEIC	Less reliable solution.								
ISC	**VIII**	**18 06 37 40**±1.5		**24.63N**±.091	**94.8E**±.11	**117**±16	**4.2b**	**18**	**6-85**
NEIC	VIII	18 06 37 37.8		24.83N	95.04E	102	4.3b		¶97viii2631
EIDC	VIII	18 06 37 38.6		25.0N	95.0E	101	4.1b		
BJI	VIII	18 06 37 40.4		24.71N	94.82E	118	4.3b		
NEIC	Less reliable solution.								
ISC	**VIII**	**23 20 31 07**±1.9		**23.9N**±.11	**94.9E**±.15	**205**±20	**3.6b**	**16**	**7-76**
BJI	VIII	23 20 31 02.5		23.71N	94.79E	173	4.1b		¶97viii3451
NEIC	VIII	23 20 31 06.6		23.84N	94.87E	200	3.6b		
EIDC	VIII	23 20 31 08.3		23.8N	94.8E	197	3.4b		
NEIC	Less reliable solution.								
ISC	**VIII**	**27 04 07 06**±3.4		**23.4N**±.33	**93.1E**±.76	**33**	**3.8b**	**4**	**7-61**
EIDC	VIII	27 04 07 02.4		23.5N	93.0E	0	3.8b,3.8L		¶97viii3938
ISC	Poorly determined								
ISC	**IX**	**04 02 02 56**±2.1		**24.5N**±.10	**94.5E**±.14	**114**±20	**4.0b**	**18**	**6-124**
BJI	IX	04 02 02 53.1		24.61N	94.29E	72	4.7b,3.7s		¶97ix0532
EIDC	IX	04 02 02 53.5		24.8N	94.9E	67	3.7b		
NEIC	IX	04 02 02 54.7		24.49N	94.50E	100	4.4b		
NEIC	Less reliable solution.								
ISC	**IX**	**27 10 43 20**±2.1		**22.9N**±.21	**94.0E**±.35	**93**±18	**4.0b**	**12**	**6-66**
NEIC	IX	27 10 43 20.9		23.06N	94.29E	91	4.0b		¶97ix4335
BJI	IX	27 10 43 23.0		23.23N	94.17E	75			
EIDC	IX	27 10 43 24.8		23.1N	94.5E	101	3.8b		
NEIC	Poor solution.								
ISC	**IX**	**28 14 32 38.3**±.99		**25.32N**±.056	**94.97E**±.070	**118**±10	**4.2b**	**39**	**6-123**
BJI	IX	28 14 32 37.4		25.25N	94.88E	137	4.6b		¶97ix4668
EIDC	IX	28 14 32 38.4		25.3N	95.0E	99	3.8b		
NEIC	IX	28 14 32 39.5		25.24N	94.92E	129	4.6b		
ISC	**X**	**02 20 43 08**±2.8		**23.9N**±.24	**94.4E**±.39	**119**±28	**3.7b**	**9**	**7-66**
NEIC	X	02 20 43 06.4		23.89N	94.32E	100			¶97x0340
EIDC	X	02 20 43 09.5		23.9N	94.4E	109	3.4b		
NEIC	Less reliable solution.								
ISC	**X**	**25 09 19 52**±1.1		**25.1N**±.59	**95.1E**±.91	**100**	**3.8b**	**5**	**8-66**
EIDC	X	25 09 19 54.6		24.8N	94.7E	104	3.4b		¶97x4306
ISC	**X**	**26 00 55 22**±1.5		**24.0N**±.13	**93.5E**±.20	**63**±15	**4.0b**	**18**	**6-80**
BJI	X	26 00 55 19.4		23.95N	93.52E	57	3.7L		¶97x4393
NEIC	X	26 00 55 22.9		23.93N	93.50E	70	4.8b		
EIDC	X	26 00 55 24.4		24.0N	93.7E	59	3.7b		
NEIC	Less reliable solution.								
ISC	**XI**	**11 03 47 08**±2.2		**26.5N**±.10	**95.3E**±.12	**85**±22	**4.0b**	**21**	**3-79**
BJI	XI	11 03 46 32.7		27.11N	93.27E	45	4.5L,4.4b		¶97xi1725
NDI	XI	11 03 47 09.8		26.4N	95.1E	103	4.0b		
NEIC	XI	11 03 47 09.8		26.42N	95.19E	103	4.0b		
EIDC	XI	11 03 47 16.7		26.5N	95.2E	151	3.8b		
BJI	Ms3.8								
NEIC	Less reliable solution.								
BJI	**XI**	**12 20 27 37.1**		**27.86N**	**96.65E**	**7**	**3.5L,4.4b**		**¶97xi2032**
EIDC	XI	12 20 27 55.2		28.6N	103.2E	16	3.4b		
BJI	Ms3.6								
ISC	**XI**	**20 20 55 04.1**±.90		**23.14N**±.053	**93.80E**±.048	**67**±9.9	**4.4b**	**49**	**6-125**
NDI	XI	20 20 55 03.6		23.1N	93.87E	60	4.5b		¶97xi3530
NEIC	XI	20 20 55 03.6		23.14N	93.88E	60	4.5b		
BJI	XI	20 20 55 03.9		23.22N	93.79E	52	4.2L,4.5b		
EIDC	XI	20 20 55 07.4		23.2N	94.0E	74	4.1b		
BJI	Ms4.0								
EIDC	**XI**	**22 20 23 53.5**		**24.4N**	**93.1E**	**0**	3.7b,3.2L		**¶97xi3957**
ISC	**XI**	**25 11 43 37**±1.1		**27.01N**±.074	**96.95E**±.069	**51**±13	**4.2b,**3.7s	**24**	**5-78**
EIDC	XI	25 11 43 33.2		27.1N	96.7E	0	4.0b		¶97xi4499
BJI	XI	25 11 43 34.6		27.13N	97.00E	17	3.7L,4.5b		
NDI	XI	25 11 43 35.6		27.05N	96.85E	33			
NEIC	XI	25 11 43 35.6		27.06N	96.87E	33			
BJI	Ms3.9								
NEIC	Less reliable solution.								
ISC	**XI**	**27 15 30 21**±2.2		**25.6N**±.45	**95.4E**±.48	**33**	4.1b	**4**	**8-76**
EIDC	XI	27 15 30 17.0		25.9N	95.5E	0	4.0b		¶97xi4886
ISC	Poorly determined								
EIDC	Multiple, mixed az								
ISC	**XI**	**27 23 02 47.2**±.83		**24.7N**±.16	**94.4E**±.21	**129**	**3.6b**	**9**	**30-79**
NDI	XI	27 23 02 47.3		24.7N	94.4E	129			¶97xi4957
NEIC	XI	27 23 02 47.3		24.71N	94.44E	129			
EIDC	XI	27 23 02 49.0		24.6N	94.4E	128	3.4b		
NEIC	Single network solution.								
ISC	**XII**	**02 11 06 09.7**±.76		**25.11N**±.056	**95.13E**±.052	**112**±8.9	**4.2b**	**38**	**3-162**
NDI	XII	02 11 06 08.6		26.11N	95.16E	100	4.2b		¶97xii0231
NEIC	XII	02 11 06 08.6		25.11N	95.16E	100	4.2b		
BJI	XII	02 11 06 09.2		25.11N	95.16E	100	5.0b		
EIDC	XII	02 11 06 11.6±3.65		24.9N	95.0E	111±35.1	3.9b		
EIDC	Error ellipse is semi−major=37.8km semi−minor=14.2km azimuth=53								
ISC	**XII**	**17 19 35 28**±1.4		**22.5N**±.19	**93.8E**±.16	**96**±21	**3.5b**	**18**	**6-60**
EIDC	XII	17 19 35 27.6±9.32		22.6N	93.7E	75±65.9	3.1b,3.5L		¶97xii3653
EIDC	Error ellipse is semi−major=89.2km semi−minor=30.6km azimuth=80								
ISC	**XII**	**19 04 26 31**±4.5		**25.7N**±.37	**94.2E**±.27	**10**		**13**	**2-21**
BJI	XII	19 04 26 21.9		25.00N	94.60E	10			¶97xii3891
ISC	**XII**	**28 04 16 08**±1.3		**23.9N**±.37	**93.7E**±.32	**100**		**15**	**2-13**
									¶97xii5394
ISC	**XII**	**29 09 08 20.4**±.84		**23.53N**±.079	**94.77E**±.077	**120**±7.8	**4.3b**	**59**	**3-144**
NDI	XII	29 09 08 18.2		23.71N	94.93E	100	4.4b		¶97xii5565
NEIC	XII	29 09 08 18.2		23.71N	94.94E	100	4.4b		
BJI	XII	29 09 08 22.9		23.86N	94.73E	96	4.4b		
EIDC	XII	29 09 08 23.9±3.47		23.6N	94.9E	135±32.8	4.1b		
EIDC	Error ellipse is semi−major=28.3km semi−minor=11.8km azimuth=53								

(296) Myanmar.

ISC	**VII**	**01 11 55 42**±1.4		**25.00N**±.092	**95.4E**±.12	**124**±15	**4.0b**	**18**	**6-145**
BJI	VII	01 11 55 43.1		25.03N	95.23E	140	4.5b		¶97vii0081
NEIC	VII	01 11 55 44.5		24.86N	95.29E	150	3.9b		
EIDC	VII	01 11 55 45.1		24.7N	95.1E	135	3.7b		
NEIC	Less reliable solution.								
ISC	**VII**	**05 08 54 18**±2.8		**22.8N**±.18	**94.6E**±.25	**113**±26	**3.9b**	**10**	**6-75**
NEIC	VII	05 08 54 17.0		22.78N	94.55E	100	4.0b		¶97vii0705
EIDC	VII	05 08 54 19.6		22.8N	94.6E	108	3.6b		
NEIC	Less reliable solution.								
ISC	**VII**	**08 23 21 38.3**±.71		**25.5N**±.11	**96.2E**±.18	**13**	**4.0b**	**13**	**6-77**
NEIC	VII	08 23 21 41.4		25.63N	96.16E	33			¶97vii1249
BJI	VII	08 23 21 42.9		25.72N	96.13E	13	3.6L,4.0s		
EIDC	VII	08 23 21 43.3		25.2N	95.8E	26	3.8b,3.9L		
NEIC	Less reliable solution.								
ISC	**VII**	**11 14 54 50.3**±.70		**21.74N**±.030	**94.86E**±.030	**152**±6.9	**5.2b**	**409**	**5-167**
NEIC	VII	11 14 54 49.0		21.82N	94.88E	138	5.3b		¶97vii1696
BJI	VII	11 14 54 50.1		21.70N	94.76E	156	5.6b		
EIDC	VII	11 14 54 50.4		21.8N	94.9E	140	4.8b		
HRVD	VII	11 14 54 52.9±.5		21.41N±.05	94.64E±.05	150±1.6			
NEIC	Mw5.4(HRV).								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c53; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}5.00±.37; $M_{\theta\theta}$−4.42±.66; $M_{\phi\phi}$−0.58±.74; $M_{r\theta}$8.56±.40; $M_{r\phi}$−5.61±.50; $M_{\theta\phi}$−5.54±.61. Principal Axes: T 14.1,Plg48°,Azm44°; N −4.1, Plg33°,Azm268°; P −10.0,Plg23°,Azm162°. Best double couple: $M_0$1.2×10^{17}Nm, NP1: ϕ_S208°,δ37°,λ24°. NP2:ϕ_S98°,δ76°,λ124°.								
ISC	**VII**	**17 11 08 16.1**±.75		**24.6N**±.12	**95.5E**±.14	**15**	**4.2b**	**9**	**3-76**
EIDC	VII	17 11 08 15.1		24.6N	95.3E	0	4.1b,3.8L		¶97vii2586
NEIC	VII	17 11 08 18.3		24.54N	95.50E	33			
BJI	VII	17 11 08 35.3		24.97N	95.57E	15	3.5L,3.6s		
NEIC	Less reliable solution.								
ISC	**VIII**	**02 18 12 36**±2.8		**18.6N**±.16	**94.7E**±.22	**64**±23	**3.7b**	**11**	**4-85**
NEIC	VIII	02 18 12 34.5		18.47N	94.54E	49			¶97viii0244
BJI	VIII	02 18 12 35.7		18.41N	94.48E	66	4.6b		
EIDC	VIII	02 18 12 37.0		18.5N	94.6E	48	3.4b,4.1L		
NEIC	Less reliable solution.								
ISC	**VIII**	**09 02 11 19**±1.3		**22.3N**±.14	**94.8E**±.20	**115**±13	**3.9b**	**15**	**4-144**
NEIC	VIII	09 02 11 17.8		22.35N	94.77E	110	4.3b		¶97viii1189
BJI	VIII	09 02 11 19.8		22.23N	94.55E	127	4.2b		
EIDC	VIII	09 02 11 20.5		22.4N	94.9E	114	3.5b		
NEIC	Less reliable solution.								
BJI	**VIII**	**11 00 56 08.9**		**26.56N**	**97.68E**	**15**	**3.7L,3.8s**		**¶97viii1486**
ISC	**VIII**	**13 15 00 52**±1.9		**20.42N**±.091	**98.0E**±.15	**59**±19	**3.8b**	**21**	**2-126**
BJI	VIII	13 15 00 48.0		20.32N	97.72E	23	4.6L		¶97viii1925
EIDC	VIII	13 15 00 48.9		20.6N	98.0E	17	3.8b,3.6L		
NEIC	VIII	13 15 00 49.9		20.54N	97.97E	33			
NEIC	Less reliable solution.								
ISC	**VIII**	**30 17 42 20.0**±.82		**17.8N**±.13	**96.5E**±.12	**29**	**4.1b,**4.4s	**17**	**2-85**
EIDC	VIII	30 17 42 17.6		17.8N	96.4E	0	4.2b,3.9s		¶97viii4520
BJI	VIII	30 17 42 18.1		17.58N	96.37E	29	4.5b,4.6s		
NEIC	VIII	30 17 42 20.5		17.82N	96.50E	33			
NEIC	Less reliable solution.								
BJI	**IX**	**02 18 16 12.9**		**25.19N**	**96.13E**	**15**	**3.2L,3.7s**		**¶97ix0309**
ISC	**IX**	**08 17 05 05.1**±.97		**25.6N**±.27	**96.7E**±.48	**33**	**3.9b**	**6**	**7-67**
EIDC	IX	08 17 05 02.2		25.7N	96.9E	0	3.9b,2.8L		¶97ix1249
NEIC	IX	08 17 05 05.0		25.54N	96.64E	33	3.8b		
NEIC	Poor solution.								
EIDC	**IX**	**11 14 58 49.8**		**20.6N**	**93.5E**	**0**	3.5b,3.7L		**¶97ix1692**
ISC	**IX**	**21 13 18 35**±1.0		**20.87N**±.056	**98.6E**±.10	**36**±13	**3.8b**	**28**	**2-81**
BJI	IX	21 13 18 30.9		20.88N	98.80E	7	4.6L,4.3b		¶97ix3105
NEIC	IX	21 13 18 34.0		20.87N	98.49E	33	4.2b		
EIDC	IX	21 13 18 34.5		20.9N	98.6E	20	3.8b,3.7L		
BJI	Ms4.3								
EIDC	**IX**	**28 10 19 29.5**		**21.5N**	**95.5E**	**0**	3.1b,3.2L		**¶97ix4614**
ISC	**X**	**01 06 27 08**±1.8		**21.3N**±.15	**94.2E**±.20	**69**±17	**4.0b**	**13**	**5-84**
BJI	X	01 06 27 05.2		21.10N	93.84E	33			¶97x0039
NEIC	X	01 06 27 08.8		21.12N	94.15E	82	4.1b		
EIDC	X	01 06 27 10.2		21.1N	94.2E	75	3.8b		
NEIC	Less reliable solution.								
ISC	**X**	**02 13 25 35**±1.9		**21.5N**±.14	**93.6E**±.11	**56**±22	**3.8b**	**13**	**6-82**
EIDC	X	02 13 25 29.0		21.3N	93.3E	0	3.8b,4.0L		¶97x0291
NEIC	X	02 13 25 33.0		21.53N	93.57E	33			
NEIC	Less reliable solution.								
BJI	**X**	**09 00 13 08.9**		**22.65N**	**96.60E**	**20**	**4.2L**		**¶97x1495**
BJI	**X**	**13 22 24 05.9**		**21.52N**	**98.12E**	**25**	**3.9L,3.7s**		**¶97x2294**
ISC	**XI**	**08 16 40 39.2**±.93		**26.49N**±.054	**96.22E**±.065	**104**±9.9	**4.1b**	**42**	**6-145**
BJI	XI	08 16 40 37.8		26.44N	96.11E	130	5.0b		¶97xi1317
NEIC	XI	08 16 40 41.1		26.30N	96.03E	118	4.5b		
EIDC	XI	08 16 40 42.4		26.2N	96.0E	113	3.8b		
BJI	**XI**	**21 14 22 26.8**		**21.23N**	**93.08E**	**50**	**4.5b,4.2s**		**¶97xi3669**
ISC	**XI**	**23 12 57 57.6**±.80		**26.18N**±.038	**96.09E**±.035	**64**±7.9	**4.6b**	**114**	**4-162**
NEIC	XI	23 12 57 56.5		26.19N	96.06E	55	4.7b		¶97xi4124
NDI	XI	23 12 57 56.6		26.19N	96.06E	55	4.7b		
BJI	XI	23 12 57 56.7		26.22N	96.08E	55	4.3L,4.9b		
EIDC	XI	23 12 57 59.2		26.2N	96.1E	61	4.3b,3.9s		
BJI	Ms4.2								
ISC	**XI**	**28 08 28 40.0**±.86		**21.93N**±.059	**94.67E**±.053	**125**±9.4	**4.3b**	**54**	**4-163**
NEIC	XI	28 08 28 38.6		21.97N	94.65E	109	4.3b		¶97xi5037
BJI	XI	28 08 28 39.1		21.88N	94.69E	109	4.7b		
EIDC	XI	28 08 28 40.0		21.9N	94.6E	109	4.0b,3.3s		
NDI	XI	28 08 28 43		22.3N	93.0E	33	4.6b		
ISC	**XII**	**03 18 46 23.3**±.81		**26.6N**±.13	**97.00E**±.098	**19**	**4.0b**	**8**	**5-72**
EIDC	XII	03 18 46 15.2±3.01		27.6N	96.6E	0	4.0b,3.7L		¶97xii0479
BJI	XII	03 18 46 23.2		26.87N	96.91E	19	3.8L,3.8s		

EIDC Error ellipse is semi−major=79.9km semi−minor=39.0km azimuth=89
ISC XII 19 17 12 03±1.0 **21.9N**±.13 **93.6E**±.10 **82**±16 **3.6b** **21 4-82**
NEIC XII 19 17 11 57.5 22.32N 93.50E 33 **¶97xii3998**
EIDC XII 19 17 12 08.9 22.5N 94.5E 92±81.1 3.3b,3.5L
NEIC Poor solution.
EIDC Origin time error = 13.87Error ellipse is semi−major=237.4km semi−minor=36.1km azimuth=74LO CONF Depth
ISC XII 27 11 02 05±2.2 **26.4N**±.18 **96.1E**±.18 **117**±24 **3.8b** **19 5-88**
EIDC XII 27 11 01 56.2±3.22 27.1N 97.9E 0 3.8b,4.2L **¶97xii5282**
BJI XII 27 11 02 00.6 26.39N 96.20E 10 3.5L
EIDC Error ellipse is semi−major=149.1km semi−minor=33.4km azimuth=80
ISC XII 28 06 04 26±2.0 **19.9N**±.39 **95.0E**±.25 **100** **7 4-14**
¶97xii5408
ISC XII 28 12 22 23.1±.65 **26.47N**±.052 **96.13E**±.039 **82**±7.7 **4.1b** **58 4-145**
NDI XII 28 12 22 24.9 26.43N 96.23E 100 4.0b **¶97xii5450**
NEIC XII 28 12 22 24.9 26.43N 96.24E 100 4.0b
BJI XII 28 12 22 25.6 26.45N 96.34E 108 4.8b
EIDC XII 28 12 22 27.9±.47 26.5N 96.3E 107±3.8 3.8b,3.1s
EIDC Error ellipse is semi−major=16.5km semi−minor=10.2km azimuth=53
ISC XII 30 11 54 07.6±.87 **25.29N**±.052 **96.55E**±.041 **40**±8.8 **4.2b,4.6s** **86 4-146**
BJI XII 30 11 54 03.6 25.06N 96.47E 16 4.5L,4.5b **¶97xii5730**
EIDC XII 30 11 54 03.6±.61 25.4N 96.6E 0 4.1b,4.5s
NDI XII 30 11 54 06.5 25.36N 96.57E 33 4.7b
NEIC XII 30 11 54 06.5 25.36N 96.57E 33 4.5b,4.7s
MOS XII 30 11 54 07.7 25.3N 96.6E 33 5.0b
BJI Ms5.1
EIDC Error ellipse is semi−major=20.3km semi−minor=13.9km azimuth=51
ISC XII 30 13 43 19.1±.15 **25.40N**±.029 **96.59E**±.024 **33** **5.2b,5.8s** **400 4-163**
EIDC XII 30 13 43 15.9±.48 25.4N 96.7E 0 4.9b,5.7s **¶97xii5742**
BJI XII 30 13 43 18.0 25.44N 96.56E 26 5.1L,5.2b
NDI XII 30 13 43 18.6 26.38N 96.61E 33 4.5b
NEIC XII 30 13 43 18.6 25.38N 96.61E 33 5.4b,5.7s
MOS XII 30 13 43 19.2 25.3N 96.6E 33 5.7b,5.8s
HRVD XII 30 13 43 23.7±.2 25.01N±.02 96.52E±.03 54±2.0
EIDC Error ellipse is semi−major=15.6km semi−minor=11.6km azimuth=51
BJI Ms6.1
NEIC Mw5.8(HRV), Mw5.7(GS).
NEIC Moment tensor solution: s10, scale 10^{17}Nm; M_{rr}−0.04; $M_{\theta\theta}$4.12; $M_{\phi\phi}$−4.09; $M_{r\theta}$0.47; $M_{r\phi}$0.85; $M_{\theta\phi}$1.71. Depth 13km; Principal axes: T 4.55,Plg8°,Azm348°; N 0.00,Plg78°, Azm219°; P −4.55,Plg9°,Azm79°. Best double couple: $M_0$4.5×10^{17}Nm; NP1:ϕ_S124°,δ78°, λ−1°. NP2:ϕ_S214°,δ89°,λ−168°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c70; Mantle waves: s15,c27; Half duration: 1s9. Moment tensor: Scale 10^{17}Nm; M_{rr}0.18±.08; $M_{\theta\theta}$4.47±.13; $M_{\phi\phi}$−4.65±.14; $M_{r\theta}$0.60±.13; $M_{r\phi}$0.24±.12; $M_{\theta\phi}$2.27±.10. Principal Axes: T 5.09,Plg7°,Azm347°; N 0.10,Plg83°,Azm174°; P −5.18,Plg1°,Azm77°. Best double couple: $M_0$5.1×10^{17}Nm, NP1:ϕ_S122°,δ84°,λ5°. NP2:ϕ_S32°,δ85°,λ174°.

(297) Myanmar-China border region.

BJI IX 07 15 43 24.9 22.93N 99.49E 11 3.1L ¶97ix1097
BJI IX 09 01 48 17.7 23.50N 99.67E 15 3.2L,3.6s ¶97ix1309
BJI IX 10 11 13 51.6 22.81N 100.52E 25 4.1L,3.8s ¶97ix1517
BJI IX 13 07 10 07.8 21.33N 101.13E 29 3.7L ¶97ix1943
ISC IX 17 00 08 47±1.1 **25.8N**±.23 **97.5E**±.55 **33** **4.3b** **5 7-61**
EIDC IX 17 00 08 43.2 24.7N 95.8E 0 4.2b **¶97ix2447**
BJI IX 23 14 01 18.7 22.78N 101.52E 10 3.2L ¶97ix3428
BJI X 04 16 32 50.9 22.65N 100.01E 10 3.4L ¶97x0687
BJI X 13 02 51 44.1 24.40N 97.49E 15 3.3L ¶97x2148
ISC X 24 09 30 46±1.2 **22.43N**±.077 **101.7E**±.15 **44**±15 **4.0b,3.7s** **12 3-66**
BJI X 24 09 30 40.0 22.44N 101.57E 3 4.4L,4.1b **¶97x4141**
NEIC X 24 09 30 42.5 22.48N 101.73E 10
EIDC X 24 09 30 43.1 22.5N 101.7E 0 4.0b,3.4s
BJI Ms4.4
NEIC Less reliable solution.
BJI X 28 14 30 39.6 24.36N 98.87E 14 3.5L,3.5s ¶97x4772
BJI X 28 14 47 37.2 24.77N 98.80E 14 3.3L ¶97x4774
ISC XI 19 06 51 59±1.1 **21.92N**±.071 **101.8E**±.10 **47**±12 **4.0b** **18 3-123**
EIDC XI 19 06 51 54.9 22.1N 101.8E 0 3.9b,4.7L **¶97xi3154**
BJI XI 19 06 51 58.0 21.89N 102.12E 15 3.8L,4.1b
NEIC XI 19 06 51 58.0 22.03N 101.71E 33
BJI Ms3.9
NEIC Less reliable solution.
ISC XI 20 11 06 58.7±.79 **22.80N**±.083 **101.1E**±.18 **33** **3.8b** **13 3-123**
EIDC XI 20 11 06 53.5 23.2N 101.0E 0 3.9b,4.1L **¶97xi3451**
BJI XI 20 11 06 53.7 22.90N 100.80E 18 4.1L,4.1b
NEIC XI 20 11 06 56.8 23.00N 100.91E 33 3.6b
NEIC Poor solution.
BJI XI 21 15 54 55.9 22.23N 99.14E 10 3.7L ¶97xi3682
ISC XII 17 10 09 58.3±.49 **24.45N**±.071 **98.54E**±.056 **30** **3.9b** **24 4-80**
EIDC XII 17 10 09 56.1±.83 24.4N 98.5E 0 4.0b **¶97xii3587**
BJI XII 17 10 09 57.6 24.41N 98.67E 30 4.1L,3.9b
NEIC XII 17 10 09 59.0 24.37N 98.61E 33
EIDC Error ellipse is semi−major=25.0km semi−minor=18.3km azimuth=71
BJI Ms4.4
NEIC Less reliable solution.
ISC XII 22 09 35 01±2.3 **24.9N**±.11 **98.2E**±.17 **47**±23 **3.6b** **12 4-79**
EIDC XII 22 09 34 56.6±.86 25.0N 98.2E 0 3.5b,3.9L **¶97xii4395**
BJI XII 22 09 34 56.9 25.18N 98.61E 30 3.7L
NEIC XII 22 09 34 59.3 24.95N 98.20E 33
EIDC Error ellipse is semi−major=37.7km semi−minor=19.3km azimuth=65
NEIC Less reliable solution.

(298) South Myanmar.

ISC VIII 23 15 30 21.0±.92 **14.3N**±.25 **97.4E**±.31 **33** **4.0b** **6 50-78**
EIDC VIII 23 15 30 18.3 14.0N 97.1E 0 3.9b **¶97viii3421**

(299) Indo-Pacific Peninsula.

BJI VII 02 15 58 21.1 21.88N 102.62E 33 3.8L,4.1s ¶97vii0262

SEISMIC REGION 26.
INDIA-XIZANG-SZECHWAN-YUNNAN.

(302) Eastern Kashmir.

ISC VII 14 16 28 05±2.1 **35.4N**±.12 **78.3E**±.18 **63**±22 **3.8b** **10 5-74**
EIDC VII 14 16 27 59.6 35.5N 78.5E 0 3.9b,4.2L **¶97vii2174**
NEIC VII 14 16 28 02.3 35.49N 78.41E 33
BJI VII 14 16 28 08.8 35.93N 78.52E 21 3.9L
NEIC Single network solution.
ISC X 07 20 13 13±1.8 **35.4N**±.11 **78.2E**±.14 **55**±19 **3.6b** **9 4-63**
NEIC X 07 20 13 10.6 35.43N 78.23E 33 **¶97x1295**
EIDC X 07 20 13 14.6 35.4N 78.2E 56 3.6b,3.8L
BJI X 07 20 13 19.8 36.21N 78.77E 24 3.7L
NEIC Single network solution.
NDI XI 05 19 06 51.9 34.79N 76.59E 33 3.2L ¶97xi0847
ISC XI 22 11 27 50±1.0 **35.39N**±.057 **78.28E**±.057 **48**±11 **4.4b** **52 4-82**
NDI XI 22 11 27 47.7 35.38N 78.86E 33 4.6b **¶97xi3862**
NEIC XI 22 11 27 47.7 35.39N 78.37E 33 4.6b
BJI XI 22 11 27 47.8 35.49N 78.37E 29 4.7L,4.5b
EIDC XI 22 11 27 53.3 35.3N 78.4E 67 3.9b,4.6L
NDI XII 01 16 11 40.9 34.93N 77.06E 33 2.4b ¶97xii0112
ISC XII 07 18 38 35±1.8 **34.6N**±.26 **76.3E**±.15 **33** **3.2b** **8 2-80**
EIDC XII 07 18 38 40.1±8.94 34.5N 76.0E 67±68.1 3.1b,3.8L **¶97xii1763**
NDI XII 07 18 38 58.9 32.51N 76.19E 15 3.0L
EIDC Error ellipse is semi−major=178.2km semi−minor=45.0km azimuth=177
ISC XII 23 04 15 05.0±.38 **33.80N**±.061 **75.23E**±.069 **33** **4.0b** **43 1-84**
NDI XII 23 04 15 03.5 34.40N 75.71E 33 4.0L **¶97xii4540**
BJI XII 23 04 15 05.1 33.80N 75.15E 24 4.0L,4.2b
NEIC XII 23 04 15 05.2 33.84N 75.21E 33 4.2b
EIDC XII 23 04 15 10.4±1.87 33.9N 75.3E 64±12.3 3.7b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=59.8km semi−minor=16.5km azimuth=45
ISC XII 24 22 30 40±12 **33.3N**±.87 **75.9E**±.51 **33** **12 1-11**
NDI XII 24 22 30 04 35.79N 74.53E 33 4.0L **¶97xii4836**
BJI XII 27 12 38 20.7 33.96N 75.88E 26 3.8L ¶97xii5290
NDI XII 29 01 47 17.1 35.30N 76.85E 29 2.5L ¶97xii5528

(303) Southern Kashmir region.

ISC XI 09 01 56 59.8±.63 **32.73N**±.091 **76.3E**±.14 **33** **3.6b** **13 1-77**
NDI XI 09 01 56 38.4 33.09N 75.73E 39 3.7L **¶97xi1381**
EIDC XI 09 01 56 55.6 32.5N 76.2E 0 3.7b,3.9L
NEIC XI 09 01 56 58.9 32.57N 76.22E 33
NEIC Less reliable solution.
NDI XII 02 21 35 06.6 32.84N 76.16E 33 1.5L ¶97xii0317
NDI XII 04 02 04 14.3 33.15N 76.82E 33 2.1L ¶97xii0532
NDI XII 07 18 59 50.8 32.97N 75.02E 33 2.7L ¶97xii1768

(304) Kashmir-Xizang border region.

ISC IX 11 03 01 13±1.1 **32.6N**±.14 **79.1E**±.17 **33** **3.5b** **5 4-77**
EIDC IX 11 03 01 09.4 32.4N 79.0E 0 3.6b,4.2L **¶97ix1623**
BJI X 14 03 24 07.5 35.91N 80.47E 29 4.5L ¶97x2328
ISC X 15 20 30 54±1.6 **35.82N**±.043 **80.68E**±.036 **18**±13 **4.5b,4.8s** **117 5-146**
EIDC X 15 20 30 52.2 35.7N 80.7E 0 4.4b,4.6s **¶97x2710**
BJI X 15 20 30 53.9 35.83N 80.61E 26 4.9b,5.0s
MOS X 15 20 30 55.5 35.8N 80.8E 33 5.0b,5.0s
NEIC X 15 20 30 55.5 35.77N 80.66E 33 4.8b,5.0s
HRVD X 15 20 30 58.5±.8 35.75N±.09 81.02E±.08 33
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s21,c34; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.64±.34; $M_{\theta\theta}$−4.17±.56; $M_{\phi\phi}$4.81±.52; $M_{r\theta}$−1.99±1.06; $M_{r\phi}$5.69±1.14; $M_{\theta\phi}$5.16±.41. Principal Axes: T 9.31,Plg26°,Azm287°; N −0.35,Plg49°,Azm164°; P −8.96,Plg30°,Azm33°. Best double couple: $M_0$9.1×10^{16}Nm, NP1: ϕ_S69°,δ49°,λ−4°. NP2:ϕ_S161°,δ87°,λ−139°.
ISC X 15 20 42 58.6±.99 **35.6N**±.14 **80.4E**±.17 **33** **3.6b** **8 5-64**
EIDC X 15 20 42 55.3 35.7N 80.7E 0 3.6b **¶97x2716**
BJI X 15 20 43 15.3 37.22N 80.40E 27 4.1L
ISC X 15 21 23 07.2±.87 **35.2N**±.20 **80.4E**±.26 **33** **3.7b** **7 23-75**
EIDC X 15 21 23 03.9 35.2N 80.5E 0 3.9b **¶97x2725**
ISC X 18 01 15 23±5.4 **35.9N**±.12 **80.7E**±.19 **16**±43 **3.8b** **9 5-73**
EIDC X 18 01 15 21.7 35.9N 80.7E 0 3.8b,4.3L **¶97x3082**
NEIC X 18 01 15 24.7 35.92N 80.64E 33
BJI X 18 01 15 27.9 36.03N 80.15E 24 4.2L,3.9b
NEIC Single network solution.
NDI XI 07 23 57 47.7 33.1N 78.04E 33 ¶97xi1187
NDI XII 03 08 58 14.8 32.93N 79.00E 33 2.9L ¶97xii0391

(305) Xizang-India border region.

ISC IX 21 15 21 36.4±.92 **31.9N**±.13 **78.6E**±.20 **33** **3.5b** **6 3-76**
EIDC IX 21 15 21 31.8 31.3N 78.0E 0 3.5b **¶97ix3118**
NEIC IX 21 15 21 35.8 31.66N 78.37E 33
NEIC Poor solution.
ISC IX 21 15 31 03.5±.92 **31.9N**±.12 **78.6E**±.21 **33** **3.5b** **6 3-74**
EIDC IX 21 15 30 58.0 31.1N 77.7E 0 3.6b **¶97ix3120**
NEIC IX 21 15 31 03.8 31.86N 78.61E 33
NEIC Less reliable solution.
NDI XI 29 06 18 42.8 30.1N 79.2E 33 3.0L ¶97xi5210
ISC XII 29 12 05 08±1.9 **31.9N**±.55 **78.8E**±.33 **33** **10 3-8**
¶97xii5581

(306) Xizang.

BJI VII 02 19 46 10.2 30.37N 96.94E 26 3.4L,4.4b ¶97vii0291
BJI Ms4.0
ISC VII 02 19 50 50±3.9 **30.3N**±.13 **96.3E**±.21 **34**±41 **3.7b** **14 4-84**
BJI VII 02 19 50 43.3 29.93N 96.43E 13 3.2L,4.5b **¶97vii0293**
NEIC VII 02 19 50 45.5 30.11N 94.57E 33 3.9b
EIDC VII 02 19 50 48.5 30.4N 96.7E 0 3.9b,3.4L
BJI Ms3.7
NEIC Poor solution.
ISC VII 04 12 45 00±1.1 **30.32N**±.072 **96.96E**±.065 **68**±13 **4.0b** **29 5-145**
BJI VII 04 12 44 54.4 30.05N 96.59E 19 3.9L,4.4b **¶97vii0561**
NEIC VII 04 12 44 57.0 30.38N 96.88E 33 4.0b
EIDC VII 04 12 45 03.2 30.3N 96.9E 75 3.8b,3.7L
BJI Ms4.0
ISC VII 04 13 14 04±1.2 **30.27N**±.060 **96.84E**±.066 **74**±13 **4.0b** **40 6-145**
EIDC VII 04 13 13 56.5 30.4N 97.1E 0 4.1b,3.6L **¶97vii0564**
NEIC VII 04 13 13 59.6 30.33N 96.98E 33 4.4b
BJI VII 04 13 14 00.0 30.07N 96.67E 33 4.5L,4.5b
BJI Ms4.0
ISC VII 05 06 22 54±2.0 **28.83N**±.093 **86.89E**±.087 **35**±22 **4.0b**,4.1s **28 8-148**
EIDC VII 05 06 22 50.5 28.6N 86.8E 0 4.0b,4.7L **¶97vii0690**
NEIC VII 05 06 22 53.5 28.80N 86.86E 33 4.8b
BJI VII 05 06 22 54.2 28.75N 87.59E 36 4.2b,4.2s
NEIC Less reliable solution.

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**08 21 16 55**±2.8	**29.9N**±.13	**88.2E**±.14	**80**±28	**3.7b**	**12**	**13-70**
NEIC	VII	08 21 16 49.8	29.83N	88.31E	33	3.7b		¶97vii1235
EIDC	VII	08 21 16 55.5	30.0N	88.2E	68	3.5b,4.3L		
NEIC	Less reliable solution.							
ISC	**VII**	**09 07 18 50**±8.6	**29.9N**±.12	**88.4E**±.16	**15**±61	**4.0b**	**20**	**15-150**
NEIC	VII	09 07 18 52.9	29.90N	88.40E	33	4.1b		¶97vii1293
BJI	VII	09 07 18 53.4	29.75N	88.52E	35			
EIDC	VII	09 07 19 01.5	30.0N	88.4E	97	3.6b,3.1s		
NEIC	Less reliable solution.							
ISC	**VII**	**12 23 41 09.7**±.68	**29.9N**±.11	**88.4E**±.16	**33**	**3.7b**	**12**	**15-76**
EIDC	VII	12 23 41 07.0	29.9N	88.5E	0	3.8b		¶97vii1888
NEIC	VII	12 23 41 09.7	29.87N	88.45E	33			
NEIC	Single network solution.							
ISC	**VII**	**24 20 54 30.9**±.74	**30.3N**±.10	**96.9E**±.13	**26**	**3.7b**	**10**	**5-73**
EIDC	VII	24 20 54 29.7	30.3N	97.0E	0	3.8b,4.1L		¶97vii3717
NEIC	VII	24 20 54 31.4	30.36N	96.83E	33			
BJI	VII	24 20 54 32.9	30.29N	96.79E	26	3.6L		
NEIC	Less reliable solution.							
EIDC	**VII**	**28 07 29 20.1**	**31.6N**	**82.2E**	**0**	**3.9b**		**20-77**
								¶97vii4229
ISC	**VIII**	**04 22 31 36**±2.5	**28.22N**±.081	**91.48E**±.075	**30**±18	**4.3b**	**46**	**2-152**
NEIC	VIII	04 22 31 36.3	28.23N	91.45E	33	4.5b		¶97viii0563
BJI	VIII	04 22 31 36.5	28.35N	91.77E	19	4.3L,4.5b		
EIDC	VIII	04 22 31 38.0	28.2N	91.4E	29	4.0b,4.3L		
BJI	Ms3.9							
ISC	**VIII**	**09 04 48 02.0**±.71	**30.33N**±.033	**97.00E**±.029	**42**±6.9	**5.1b,4.8s**	**333**	**5-166**
EIDC	VIII	09 04 47 57.6	30.3N	97.0E	0	4.9b,4.5s		¶97viii1206
BJI	VIII	09 04 47 58.9	30.39N	97.01E	15	5.2L,5.1b		
NEIC	VIII	09 04 48 00.7	30.29N	96.98E	33	5.2b,4.8s		
MOS	VIII	09 04 48 01.2	30.3N	97.0E	36	5.2b,4.7s		
HRVD	VIII	09 04 48 07.6±.4	30.16N±.07	97.46E±.08	33			
BJI	Ms5.2							
NEIC	Mw5.2(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c38; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−6.73±.46; $M_{\theta\theta}$5.33±.52; $M_{\phi\phi}$1.41±.64; $M_{r\theta}$4.45±1.33; $M_{r\phi}$1.33±1.30; $M_{\theta\phi}$1.36±.49. Principal Axes: T 7.29,Plg18°,Azm343°; N 0.98, Plg0°,Azm73°; P −8.27,Plg72°,Azm164°. Best double couple: $M_0$7.8×10^{16}Nm, NP1:ϕ_S73°, δ27°,λ−90°. NP2:ϕ_S253°,δ63°,λ−90°.							
ISC	**VIII**	**09 16 46 06**±1.8	**30.46N**±.086	**96.82E**±.086	**64**±19	**3.7b**	**25**	**5-73**
BJI	VIII	09 16 46 00.4	30.57N	96.95E	14	4.5b		¶97viii1285
NEIC	VIII	09 16 46 02.7	30.55N	96.93E	33	4.4b		
EIDC	VIII	09 16 46 06.8	30.5N	96.6E	40	3.5b,3.9L		
NEIC	Less reliable solution.							
ISC	**VIII**	**10 09 04 00**±1.1	**30.19N**±.090	**97.12E**±.087	**80**±13	**3.9b**	**28**	**5-84**
EIDC	VIII	10 09 03 52.3	30.5N	97.6E	0	3.9b,3.9L		¶97viii1377
NEIC	VIII	10 09 03 54.6	30.54N	97.49E	33	4.5b		
BJI	VIII	10 09 03 54.9	30.31N	97.01E	6	3.5L,4.4b		
NEIC	Less reliable solution.							
BJI	Ms3.9							
ISC	**VIII**	**10 11 53 17**±1.0	**29.2N**±.34	**89.5E**±.37	**33**	**3.7b**	**6**	**14-71**
EIDC	VIII	10 11 53 14.3	29.2N	89.5E	0	3.8b,3.9L		¶97viii1388
NEIC	VIII	10 11 53 17.2	29.16N	89.49E	33	3.4b		
NEIC	Poor solution.							
ISC	**VIII**	**11 06 47 43**±1.8	**30.24N**±.080	**96.9E**±.11	**58**±19	**4.1b,**4.1s	**25**	**5-157**
NEIC	VIII	11 06 47 40.2	30.41N	96.97E	33			¶97viii1515
EIDC	VIII	11 06 47 42.1	30.4N	97.0E	29	4.0b,4.0L		
BJI	VIII	11 06 47 43.8	30.11N	97.11E	26	4.1L,4.2b		
NEIC	Less reliable solution.							
BJI	Ms4.0							
BJI	**VIII**	**14 05 05 30.6**	**31.16N**	**94.62E**	**20**	**3.8L**		**¶97viii2006**
ISC	**VIII**	**14 06 45 08**±1.7	**30.3N**±.12	**96.88E**±.091	**43**±19	**3.8b**	**20**	**6-145**
EIDC	VIII	14 06 45 04.0	30.4N	97.0E	0	4.0b		¶97viii2019
NEIC	VIII	14 06 45 06.9	30.32N	96.91E	33	4.1b		
BJI	VIII	14 06 45 07.2	30.46N	96.95E	25	4.0L,4.3b		
NEIC	Less reliable solution.							
BJI	Ms4.2							
ISC	**VIII**	**14 19 22 15**±1.6	**30.33N**±.087	**96.94E**±.074	**57**±18	**4.0b**	**29**	**6-79**
BJI	VIII	14 19 22 11.8	30.44N	96.85E	23	3.8L,4.1b		¶97viii2102
NEIC	VIII	14 19 22 12.5	30.38N	96.88E	33	4.4b		
EIDC	VIII	14 19 22 16.1	30.4N	97.0E	48	3.8b		
BJI	Ms4.3							
EIDC	**VIII**	**15 12 42 02.6**	**30.2N**	**98.6E**	**0**	**3.6b,**3.7L		**6-73**
								¶97viii2220
ISC	**VIII**	**16 20 30 51**±6.8	**30.0N**±.14	**86.1E**±.14	**4**±42	**3.9b,**3.0s	**18**	**12-77**
EIDC	VIII	16 20 30 52.0	30.0N	86.1E	0	3.7b,4.0L		¶97viii2417
NEIC	VIII	16 20 30 55.0	30.02N	86.22E	33	4.4b		
NEIC	Less reliable solution.							
ISC	**VIII**	**17 00 10 24**±1.1	**30.30N**±.087	**96.99E**±.063	**80**±14	**3.8b**	**25**	**5-145**
BJI	VIII	17 00 10 20.4	30.31N	96.91E	15	3.9L,4.1b		¶97viii2439
NEIC	VIII	17 00 10 22.2	30.35N	96.92E	65	4.8b		
EIDC	VIII	17 00 10 25.5	30.3N	96.9E	80	3.6b,4.0L		
ISC	**VIII**	**17 20 03 32.7**±.74	**28.1N**±.15	**87.5E**±.18	**33**	**3.9b**	**10**	**32-82**
EIDC	VIII	17 20 03 29.5	28.2N	87.4E	0	3.9b		¶97viii2580
NEIC	VIII	17 20 03 32.8	28.13N	87.56E	33			
NEIC	Poor solution.							
ISC	**IX**	**13 18 36 32**±5.2	**30.2N**±.12	**88.01E**±.074	**11**±35	**3.9b,**3.5s	**19**	**13-76**
EIDC	IX	13 18 36 32.9	30.2N	88.2E	0	3.9b,4.1L		¶97ix2012
NEIC	IX	13 18 36 35.0	30.10N	88.03E	33			
BJI	IX	13 18 36 41.6	30.70N	88.40E	37	4.2b		
NEIC	Less reliable solution.							
ISC	**IX**	**13 18 38 09.1**±.58	**30.07N**±.098	**88.13E**±.069	**33**	**4.1b**	**22**	**10-149**
BJI	IX	13 18 38 05.0	29.78N	88.18E	8	4.3b,4.8s		¶97ix2014
EIDC	IX	13 18 38 07.1	30.1N	88.3E	0	4.1b,4.2L		
NEIC	IX	13 18 38 09.5	30.12N	88.19E	33	4.3b		
NEIC	Less reliable solution.							
ISC	**IX**	**15 16 41 12**±1.2	**30.10N**±.082	**88.21E**±.061	**43**±15	**3.8b**	**23**	**3-149**
EIDC	IX	15 16 41 07.4	30.2N	88.2E	0	3.9b,3.3L		¶97ix2264
BJI	IX	15 16 41 08.9	30.05N	88.28E	18	4.6b,4.6s		
NEIC	IX	15 16 41 10.6	30.09N	88.29E	33			
NEIC	Less reliable solution.							
ISC	**IX**	**18 07 37 14**±1.2	**28.84N**±.075	**88.10E**±.064	**71**±13	**4.3b**	**37**	**3-149**
BJI	IX	18 07 37 05.6	28.24N	88.07E	20	3.5L,4.4b		¶97ix2629
NEIC	IX	18 07 37 10.0	28.87N	88.15E	33	4.6b		
MOS	IX	18 07 37 10.5	29.0N	88.1E	33	4.9b		
EIDC	IX	18 07 37 20.7	29.0N	88.2E	113	4.0b		
ISC	**X**	**03 04 48 09**±2.0	**31.8N**±.26	**89.1E**±.13	**33**		**6**	**11-27**
								¶97x0392
ISC	**X**	**05 16 08 17**±1.4	**28.2N**±.19	**86.9E**±.20	**86**	**3.9b**	**5**	**13-78**
EIDC	X	05 16 08 17.2	28.0N	86.7E	86	3.8b		¶97x0886
ISC	**X**	**05 21 40 59.7**±.56	**30.4N**±.10	**88.13E**±.079	**33**	**3.9b**	**18**	**3-84**
BJI	X	05 21 40 57.8	30.18N	88.37E	28	4.4b,4.2s		¶97x0939
NEIC	X	05 21 40 59.6	30.28N	87.97E	33			
EIDC	X	05 21 41 05.8	30.2N	87.9E	78	3.5b,4.0L		
NEIC	Less reliable solution.							
ISC	**X**	**12 19 45 28**±5.4	**30.2N**±.24	**88.3E**±.28	**51**±52	**3.8b**	**8**	**14-76**
EIDC	X	12 19 45 22.5	30.2N	88.3E	0	3.8b,3.5L		¶97x2090
NEIC	X	12 19 45 25.8	30.08N	88.06E	33			
BJI	X	12 19 45 29.5	30.07N	88.46E	34			
NEIC	Poor solution.							
ISC	**X**	**17 13 03 08.3**±.76	**34.8N**±.18	**80.3E**±.14	**19**	**3.6b**	**9**	**6-77**
EIDC	X	17 13 03 06.8	34.8N	80.4E	0	3.7b,4.4L		¶97x2991
NEIC	X	17 13 03 10.1	34.76N	80.26E	33	3.8b		
BJI	X	17 13 03 11.6	34.71N	80.66E	19	3.8L		
NEIC	Less reliable solution.							
EIDC	**X**	**23 04 16 10.3**	**30.0N**	**89.4E**	**0**	**3.9b**		**¶97x3925**
ISC	**X**	**23 16 04 08**±6.0	**35.5N**±.15	**89.0E**±.43	**34**±55	**3.7b**	**6**	**18-73**
EIDC	X	23 16 04 12.0	35.6N	89.1E	47	3.5b,3.5L		¶97x4021
ISC	**X**	**30 02 02 53.4**±.91	**29.54N**±.036	**89.73E**±.031	**45**±8.7	**5.1b,4.2s**	**253**	**1-160**
EIDC	X	30 02 02 49.2	29.5N	89.7E	0	4.9b,4.0s		¶97x4976
NEIC	X	30 02 02 52.0	29.55N	89.70E	33	5.3b		
MOS	X	30 02 02 52.3	29.5N	89.7E	33	5.5b,4.1s		
BJI	X	30 02 02 59.3	30.27N	90.28E	33	4.3L,5.2b		
BJI	Ms4.7							
NDI	**XI**	**02 11 22 49**	**32.12N**	**81.22E**				**¶97xi0249**
ISC	**XI**	**03 02 29 48**±2.0	**29.04N**±.027	**85.39E**±.025	**8**±12	**5.4b,5.1s**	**391**	**3-157**
LJU	XI	03 02 29 31.1	24.9N	85.5E	7			¶97xi0380
EIDC	XI	03 02 29 48.8	29.0N	85.5E	0	5.1b,4.8s		
NDI	XI	03 02 29 50	28.6N	85.5E	33	5.2b		
BJI	XI	03 02 29 50.3	29.06N	85.38E	32	5.4b,5.5s		
NEIC	XI	03 02 29 51.8	29.08N	85.38E	33	5.4b,5.0s		
MOS	XI	03 02 29 52.3	29.1N	85.4E	33	5.6b,5.2s		
HRVD	XI	03 02 29 56.8±.2	28.60N±.03	85.39E±.03	33			
NEIC	Mw5.5(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c66; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.72±.05; $M_{\theta\theta}$−0.21±.09; $M_{\phi\phi}$1.93±.08; $M_{r\theta}$−0.20±.13; $M_{r\phi}$1.10±.18; $M_{\theta\phi}$0.34±.05. Principal Axes: T 2.27,Plg15°,Azm277°; N −0.20, Plg10°,Azm184°; P −2.07,Plg72°,Azm61°. Best double couple: $M_0$2.2×10^{17}Nm, NP1:ϕ_S21°, δ31°,λ−70°. NP2:ϕ_S178°,δ61°,λ−102°.							
ISC	**XI**	**07 22 56 01**±1.5	**32.25N**±.087	**95.54E**±.093	**57**±17	**3.9b**	**18**	**5-76**
NEIC	XI	07 22 55 58.4	32.24N	95.48E	33			¶97xi1179
BJI	XI	07 22 56 00.3	32.50N	95.44E	36	3.1L,3.9b		
EIDC	XI	07 22 56 01.7	32.2N	95.5E	46	3.7b,3.8L		
ISC	**XI**	**08 10 02 53.4**±.12	**35.12N**±.028	**87.37E**±.022	**38**±2.1*	**6.0b,7.4s**	**651**	**6-160**
EIDC	XI	08 10 02 48.4	35.1N	87.3E	0	5.4b,7.7s		¶97xi1252
BJI	XI	08 10 02 51.2	35.26N	87.33E	34	5.9b,7.4s		
NDI	XI	08 10 02 52.6	35.0N	87.3E	33	6.2b		
NEIC	XI	08 10 02 52.6	35.07N	87.33E	33	6.2b,7.9s		
MOS	XI	08 10 02 53.2	35.3N	87.4E	33	6.5b,7.7s		
HRVD	XI	08 10 03 03.4±.1	35.33N±.01	86.96E±.01	16±.5			
NEIC	Mw7.5(HRV), Me7.4(GS).							
NEIC	Mw 7.4 (GS), 7.1 (OBN). Ms 7.5 (BRK).							
NEIC	Radiated energy from the P−wave first−motion solution: 3.1±0.9×10^{15}Nm/11							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S350°,δ85°,λ179°. NP2:ϕ_S80°,δ89°,λ5°. Principal axes: T Plg4°,Azm305°; P Plg3°,Azm215°. Complex earthquake with at least two larger events occurring about 3 and 6 seconds after the onset. Depth and focal mechanism based on first event.							
NEIC	Moment tensor solution: s12, scale 10^{20}Nm; M_{rr}0.09; $M_{\theta\theta}$−0.96; $M_{\phi\phi}$0.87; $M_{r\theta}$0.05; $M_{r\phi}$0.03; $M_{\theta\phi}$1.11. Depth 38km; Principal axes: T 1.39,Plg2°,Azm295°; N 0.08,Plg88°,Azm87°; P −1.48,Plg1°,Azm205°. Best double couple: $M_0$1.4×10^{20}Nm; NP1:ϕ_S340°,δ88°,λ179°. NP2: ϕ_S70°,δ89°,λ2°.							
NEIC	Felt in China (after QUE)							
MOS	Seismic moment $M_0$5.2×10^{19}Nm (after OBN)							
MOS	Focal mechanism: C77,D21; NP1:ϕ_S84°,δ90°,λ0°. NP2:ϕ_S354°,δ90°,λ180°. Principle axes: T Plg0°,Azm309°; N Plg90°,Azm0°; P Plg0°,Azm39°.							
HRVD	Centroid moment tensor solution. Data used: GSN; Mantle waves: s34,c80; Half duration: 14s7. Moment tensor: Scale 10^{20}Nm; M_{rr}−0.24±.01; $M_{\theta\theta}$−0.74±.01; $M_{\phi\phi}$0.97±.01; $M_{r\theta}$0.06±.07; $M_{r\phi}$0.85±.09; $M_{\theta\phi}$1.89±.01. Principal Axes: T 2.41,Plg16°,Azm301°; N −0.35, Plg69°,Azm164°; P −2.05,Plg14°,Azm35°. Best double couple: $M_0$2.2×10^{20}Nm, NP1:ϕ_S79°, δ69°,λ2°. NP2:ϕ_S348°,δ88°,λ159°.							
ISC	**XI**	**08 10 11 37.5**±.50	**35.3N**±.12	**87.7E**±.16	**33**	**4.4b**	**21**	**20-115**
EIDC	XI	08 10 11 34.3	35.3N	87.6E	0	4.4b		¶97xi1256
NEIC	XI	08 10 11 37.3	35.27N	87.65E	33	4.6b		
NEIC	Less reliable solution.							
ISC	**XI**	**08 10 20 19.7**±.72	**35.3N**±.23	**87.3E**±.36	**33**	**3.9b**	**9**	**20-73**
NEIC	XI	08 10 20 19.6	35.29N	87.31E	33			¶97xi1258
EIDC	XI	08 10 20 22.4	35.1N	87.1E	37	3.7b		
NEIC	Single network solution.							
ISC	**XI**	**08 10 25 41.4**±.92	**35.2N**±.16	**87.7E**±.29	**33**	**3.8b**	**8**	**19-70**
EIDC	XI	08 10 25 39.0	35.7N	88.5E	0	3.8b,4.1L		¶97xi1259
ISC	**XI**	**08 10 27 55**±1.3	**35.31N**±.063	**87.42E**±.047	**42**±13	**4.7b**	**66**	**12-88**
EIDC	XI	08 10 27 50.8	35.3N	87.6E	0	4.6b,4.3L		¶97xi1261
MOS	XI	08 10 27 53.2	35.2N	87.5E	33	5.0b		
NEIC	XI	08 10 27 53.7	35.29N	87.47E	33	4.9b		
BJI	XI	08 10 27 56.5	35.38N	88.12E	5	4.8b		
ISC	**XI**	**08 10 39 54**±3.1	**35.5N**±.83	**86.5E**±.57	**33**	**3.4b**	**4**	**20-74**
EIDC	XI	08 10 39 50.0	35.7N	86.6E	0	3.3b		¶97xi1264
ISC	Poorly determined							
ISC	**XI**	**08 10 48 55.4**±.81	**35.3N**±.23	**86.9E**±.35	**33**	**3.8b**	**9**	**20-71**
EIDC	XI	08 10 48 52.6	35.3N	86.9E	0	3.8b		¶97xi1265
ISC	**XI**	**08 11 32 01**±3.3	**35.32N**±.087	**87.86E**±.072	**22**±26	**4.0b**	**23**	**10-84**
EIDC	XI	08 11 32 00.0	35.4N	88.0E	0	4.1b,3.9L		¶97xi1271
BJI	XI	08 11 32 01.3	35.26N	87.81E	29	3.9L,4.2b		
NEIC	XI	08 11 32 02.4	35.39N	87.90E	33			
NEIC	Less reliable solution.							
ISC	**XI**	**08 11 39 00**±1.0	**35.3N**±.16	**87.0E**±.31	**33**	**3.8b**	**7**	**19-70**
EIDC	XI	08 11 38 57.9	35.4N	86.9E	0	3.7b,3.6L		¶97xi1272
ISC	**XI**	**08 11 51 25.9**±.97	**30.25N**±.054	**96.95E**±.048	**53**±10	**4.5b**	**59**	**5-145**
NEIC	XI	08 11 51 23.6	30.31N	96.93E	33	4.7b		¶97xi1275
BJI	XI	08 11 51 24.8	30.30N	97.01E	32	4.2L,4.7b		
EIDC	XI	08 11 51 27.0	30.3N	97.0E	46	4.1b,3.9L		
BJI	Ms5.0							
ISC	**XI**	**08 12 55 26.7**±.35	**35.13N**±.061	**86.72E**±.050	**33**	**4.1b**	**47**	**9-87**
EIDC	XI	08 12 55 23.7	35.2N	86.7E	0	4.0b,4.2L		¶97xi1283
BJI	XI	08 12 55 25.7	35.10N	86.88E	33	4.4b,4.7s		
NDI	XI	08 12 55 26.3	35.0N	86.7E	33	4.6b		
NEIC	XI	08 12 55 26.3	35.07N	86.72E	33	4.6b		
NEIC	Less reliable solution.							
ISC	**XI**	**08 14 05 03.9**±.42	**35.14N**±.068	**87.30E**±.055	**33**	**4.0b**	**31**	**6-88**
EIDC	XI	08 14 05 02.0	35.1N	87.3E	0	4.1b,4.0L		¶97xi1291
BJI	XI	08 14 05 02.9	35.25N	87.46E	31	4.4b,4.5s		

NEIC XI 08 14 05 04.4 35.10N 87.21E 33 4.7b
NEIC Less reliable solution.
ISC XI 08 15 29 47±3.7 **35.58N**±.091 **87.66E**±.084 **25**±28 **4.1b** **25 7-88**
EIDC XI 08 15 29 45.5 35.5N 87.7E 0 4.0b,3.5L ¶97xi1302
BJI XI 08 15 29 46.6 35.30N 87.58E 18 4.3b,4.1s
NEIC XI 08 15 29 47.7 35.56N 87.60E 33
NEIC Less reliable solution.
ISC XI 08 15 39 24.2±.59 **35.59N**±.086 **87.7E**±.11 **33** **3.9b**,3.8s **16 7-73**
EIDC XI 08 15 39 21.2 35.5N 87.6E 0 3.8b,3.6L ¶97xi1305
BJI XI 08 15 39 22.6 35.40N 87.53E 42 4.4b,4.1s
NEIC XI 08 15 39 23.7 35.48N 87.72E 33
NEIC Less reliable solution.
EIDC XI 08 15 44 57.3 **34.2N** **83.2E** **0** 3.6b,3.6L ¶97xi1306
ISC XI 08 15 47 59±1.9 **35.12N**±.083 **87.33E**±.079 **35**±20 **3.9b** **23 6-73**
EIDC XI 08 15 47 55.6 35.0N 87.2E 0 3.9b,4.1L ¶97xi1308
NEIC XI 08 15 47 58.7 35.08N 87.26E 33
BJI XI 08 15 48 04.0 35.46N 87.86E 33 4.4b,4.3s
NEIC Less reliable solution.
ISC XI 08 17 11 44.2±.88 **35.5N**±.11 **87.6E**±.16 **33** **3.7b** **9 19-73**
NEIC XI 08 17 11 44.1 35.45N 87.64E 33 ¶97xi1323
EIDC XI 08 17 11 47.2 35.5N 87.7E 41 3.5b,3.6L
NEIC Less reliable solution.
ISC XI 08 18 03 33±6.1 **35.3N**±.11 **87.6E**±.14 **22**±45 **3.6b**,3.9s **17 6-72**
EIDC XI 08 18 03 31.6 35.2N 87.6E 0 3.7b,3.6L ¶97xi1330
NEIC XI 08 18 03 34.2 35.22N 87.67E 33
BJI XI 08 18 03 35.9 35.64N 87.74E 47 3.9s
NEIC Less reliable solution.
ISC XI 08 18 31 31±2.2 **35.26N**±.063 **87.76E**±.049 **16**±18 **4.2b,3.8s** **39 6-88**
NEIC XI 08 18 31 32.6 35.27N 87.78E 33 4.4b ¶97xi1332
BJI XI 08 18 31 33.3 35.34N 87.80E 44 4.3b,4.4s
EIDC XI 08 18 31 38.0 35.3N 87.7E 65 3.7b,3.9s
ISC XI 09 00 24 51±2.1 **33.71N**±.034 **88.34E**±.028 **12**±13 **5.1b,5.0s** **231 5-124**
NDI XI 09 00 24 26.5 37.5N 90.8E 334 4.3b ¶97xi1369
EIDC XI 09 00 24 50.9 33.6N 88.3E 0 4.8b,4.8s
MOS XI 09 00 24 53.7 33.6N 88.4E 33 5.2b,5.0s
NEIC XI 09 00 24 54.0 33.68N 88.28E 33 5.1b,5.0s
BJI XI 09 00 24 55.3 33.80N 88.54E 35 5.1b,5.5s
HRVD XI 09 00 25 01.2±.6 33.58N±.11 88.56E±.09 33
NEIC Mw5.3(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c34; Half duration: 1$s1. Moment tensor: Scale 10^{16}Nm; M_{rr}−7.48±1.32; $M_{\theta\theta}$0.09±1.10; $M_{\phi\phi}$7.39±1.09; $M_{r\theta}$0.59±1.86; $M_{r\phi}$5.67±2.17; $M_{\theta\phi}$5.27±1.51. Principal Axes: T 11.6,Plg16°,Azm295°; N −2.1,Plg15°,Azm201°; P −9.6,Plg68°,Azm69°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S46°,δ32°,λ−60°. NP2:ϕ_S192°,δ62°,λ−107°.
ISC XI 09 02 39 41±1.3 **34.9N**±.17 **86.2E**±.21 **33** 3.8b **4 11-54**
EIDC XI 09 02 39 39.0 35.0N 86.2E 0 4.3L,3.1s ¶97xi1387
ISC Poorly determined
ISC XI 09 04 18 54±1.8 **35.26N**±.048 **87.62E**±.040 **22**±15 **4.6b,4.8s** **72 9-115**
NEIC XI 09 04 18 55.0 35.17N 87.44E 33 4.8b,4.4s ¶97xi1393
BJI XI 09 04 18 56.3 35.28N 87.75E 35 4.7b,4.9s
EIDC XI 09 04 18 59.4 35.2N 87.5E 56 4.1b,4.5L
ISC XI 09 08 43 43.3±.39 **35.05N**±.060 **86.40E**±.060 **33** **4.2b,3.9s** **34 7-151**
EIDC XI 09 08 43 40.6 35.0N 86.5E 0 4.2b,4.4L ¶97xi1422
NEIC XI 09 08 43 43.3 34.88N 86.34E 33
BJI XI 09 08 43 44.4 35.18N 86.53E 34 4.3b,4.2s
NEIC Less reliable solution.
ISC XI 09 16 55 28.5±.87 **35.3N**±.15 **86.7E**±.18 **33** **3.8b** **8 20-74**
EIDC XI 09 16 55 25.9 35.3N 86.6E 0 3.7b,3.3L ¶97xi1473
NEIC XI 09 16 55 28.4 35.34N 86.68E 33
NEIC Single network solution.
ISC XI 09 20 25 02±1.3 **35.13N**±.061 **86.66E**±.062 **53**±15 **3.9b,4.2s** **34 7-74**
EIDC XI 09 20 24 56.7 35.1N 86.6E 0 3.9b,4.2s ¶97xi1506
NDI XI 09 20 24 59 35.10N 86.5E 0
NEIC XI 09 20 24 59.0 35.11N 86.53E 33
BJI XI 09 20 25 02.3 35.31N 86.99E 37 4.3b,4.6s
NEIC Less reliable solution.
ISC XI 09 21 29 20±3.0 **34.8N**±.17 **84.4E**±.94 **33** 3.5b **6 8-75**
EIDC XI 09 21 29 20.9 34.8N 85.5E 0 3.4b ¶97xi1513
BJI XI 09 21 29 38.7 36.21N 87.92E 16 3.9s
ISC XI 09 23 14 24.7±.69 **35.4N**±.16 **87.2E**±.16 **10** **4.0b** **11 20-151**
NDI XI 09 23 14 24 35.5N 87.2E 10 ¶97xi1523
NEIC XI 09 23 14 24.1 35.58N 87.25E 10
EIDC XI 09 23 14 25.2 35.4N 87.1E 0 3.9b,4.6L
NEIC Poor solution.
ISC XI 09 23 17 34±4.2 **35.20N**±.074 **87.25E**±.058 **14**±26 **4.4b,4.7s** **42 6-88**
EIDC XI 09 23 17 33.1 35.2N 87.2E 0 4.3b,4.4L ¶97xi1524
BJI XI 09 23 17 33.8 35.06N 87.06E 32 4.8b,5.0s
NEIC XI 09 23 17 36.0 35.15N 87.22E 33 4.1b
ISC XI 10 01 09 50±2.4 **35.21N**±.070 **86.69E**±.063 **30**±19 **4.2b** **37 7-151**
EIDC XI 10 01 09 47.6 35.2N 86.6E 0 3.9b,4.0L ¶97xi1535
BJI XI 10 01 09 47.9 34.92N 86.71E 26 4.4b,4.1s
NEIC XI 10 01 09 49.6 35.15N 86.60E 33 4.9b
ISC XI 10 10 23 01±4.9 **35.49N**±.066 **87.13E**±.079 **3**±31 **4.1b,3.8s** **26 7-74**
EIDC XI 10 10 23 03.1 35.4N 87.1E 0 4.0b,3.7s ¶97xi1597
NEIC XI 10 10 23 05.5 35.43N 87.11E 33
BJI XI 10 10 23 07.4 35.55N 87.46E 35 4.1b,4.2s
NEIC Less reliable solution.
ISC XI 10 10 54 16±2.5 **35.21N**±.058 **87.23E**±.058 **25**±21 **4.0b,4.0s** **34 6-73**
NEIC XI 10 10 54 16.3 35.18N 87.21E 33 ¶97xi1603
BJI XI 10 10 54 18.2 35.34N 87.44E 34 4.2L,4.5b
EIDC XI 10 10 54 20.0 35.2N 87.2E 45 3.8b,4.0L
BJI Ms4.2
ISC XI 11 00 54 23±3.7 **35.27N**±.096 **87.6E**±.10 **28**±29 **3.8b**,3.9s **15 6-73**
NEIC XI 11 00 54 23.4 35.21N 87.55E 33 ¶97xi1702
BJI XI 11 00 54 25.4 35.44N 87.58E 33 4.6b,4.4s
EIDC XI 11 00 54 27.4 35.2N 87.6E 50 3.5b,4.2L
NEIC Less reliable solution.
ISC XI 11 04 29 17±1.8 **35.38N**±.080 **87.5E**±.12 **33**±15 **3.7b** **13 6-73**
EIDC XI 11 04 29 14.8 35.1N 87.2E 0 3.7b,4.0L ¶97xi1732
BJI XI 11 04 29 17.8 35.21N 87.34E 29 4.5b,4.0s
NEIC XI 11 04 29 17.9 35.12N 87.32E 33
NEIC Less reliable solution.
ISC XI 11 06 07 16.9±.77 **34.4N**±.11 **86.2E**±.16 **33** **3.7b** **10 6-73**
EIDC XI 11 06 07 13.4 34.4N 85.9E 0 3.8b,3.3s ¶97xi1747
NEIC XI 11 06 07 15.7 34.50N 86.00E 33
BJI XI 11 06 07 18.5 34.33N 86.27E 33 4.7b,3.7s
NEIC Single network solution.
ISC XI 11 22 22 42.8±.27 **35.40N**±.044 **87.91E**±.041 **33** **4.4b,4.4s** **65 6-81**
EIDC XI 11 22 22 40.3 35.4N 87.8E 0 4.2b,4.3s ¶97xi1883
NDI XI 11 22 22 42.5 35.3N 87.8E 33 4.6b
NEIC XI 11 22 22 42.9 35.36N 87.88E 33 4.6b,4.6s
BJI XI 11 22 22 43.4 35.55N 88.07E 34 4.9L,4.4b
BJI Ms4.9
ISC XI 11 23 04 10±2.7 **35.8N**±.13 **88.0E**±.34 **38**±28 **3.7b** **8 7-73**
EIDC XI 11 23 04 06.7 35.5N 87.9E 0 3.8b,3.6L ¶97xi1892
BJI XI 11 23 04 12.1 35.47N 87.67E 33 3.6L,4.4b
BJI Ms4.0
ISC XI 12 01 34 31±1.5 **35.09N**±.097 **86.36E**±.085 **60**±18 **3.8b**,3.1s **14 7-74**
NEIC XI 12 01 34 28.8 34.94N 86.35E 33 ¶97xi1914
BJI XI 12 01 34 30.5 35.22N 86.50E 34 4.4b,4.0s
EIDC XI 12 01 34 34.2 35.0N 86.3E 67 3.5s,3.5b
NEIC Less reliable solution.
BJI XI 12 17 52 56.2 **35.40N** **87.09E** **30** **3.9L,3.9s** ¶97xi2016
BJI XI 12 23 47 37.2 **35.29N** **87.29E** **27** **4.1s** ¶97xi2049
ISC XI 13 09 58 35.5±.36 **35.16N**±.062 **86.98E**±.071 **33** **4.4b,4.4s** **40 6-88**
EIDC XI 13 09 58 32.1 35.1N 87.0E 0 4.3b,4.3s ¶97xi2116
NDI XI 13 09 58 35.4 35.0N 86.94E 33 4.6b
NEIC XI 13 09 58 35.4 35.07N 86.95E 33 4.6b,4.5s
BJI XI 13 09 58 35.9 35.25N 87.08E 34 4.6b,4.9s
NEIC Less reliable solution.
ISC XI 13 10 12 57±2.2 **35.27N**±.082 **87.6E**±.10 **80**±22 **4.0b** **25 6-73**
EIDC XI 13 10 12 49.1 35.1N 87.4E 0 4.0b,4.8L ¶97xi2118
NEIC XI 13 10 12 52.3 35.26N 87.55E 33 3.7b
BJI XI 13 10 12 56.4 35.48N 87.69E 33 3.8L,4.0b
NEIC Less reliable solution.
BJI Ms3.8
ISC XI 13 21 49 45±3.8 **35.40N**±.087 **87.61E**±.089 **31**±29 **3.9b**,3.8s **24 6-73**
EIDC XI 13 21 49 42.6 35.2N 87.1E 0 3.8b,3.5L ¶97xi2197
NEIC XI 13 21 49 45.2 35.22N 87.20E 33
BJI XI 13 21 49 47.2 35.59N 87.82E 37 4.1L,4.3b
BJI Ms4.3
ISC XI 13 22 35 18.6±.32 **35.15N**±.051 **87.56E**±.046 **33** **4.1b,5.0s** **46 6-81**
NDI XI 13 22 35 18.8 35.13N 87.55E 33 4.4b ¶97xi2201
NEIC XI 13 22 35 18.8 35.13N 87.56E 33 4.4b
BJI XI 13 22 35 19.8 35.45N 87.72E 34 4.7b,5.2s
EIDC XI 13 22 35 25.0 35.2N 87.6E 62 3.7b,3.7L
ISC XI 14 12 30 24.2±.57 **35.40N**±.091 **87.6E**±.13 **33** **3.9b** **17 6-73**
BJI XI 14 12 30 13.2 35.27N 86.29E 9 4.0L,4.2b ¶97xi2290
EIDC XI 14 12 30 21.1 35.4N 87.7E 0 3.9b,3.7L
NEIC XI 14 12 30 23.9 35.39N 87.75E 33
BJI Ms3.9
NEIC Less reliable solution.
ISC XI 14 14 37 02.4±.65 **30.1N**±.14 **88.4E**±.12 **33** **3.6b** **11 2-70**
EIDC XI 14 14 37 00.0 30.1N 88.4E 0 3.6b,2.9s ¶97xi2300
NDI XI 14 14 37 02.5 30.2N 88.6E 33
NEIC XI 14 14 37 02.5 30.29N 88.62E 33
BJI XI 14 14 37 06.5 30.35N 88.58E 33 3.4L
NEIC Single network solution.
ISC XI 14 22 23 59.4±.27 **35.37N**±.042 **88.11E**±.042 **33** **4.3b**,4.6s **74 6-152**
MOS XI 14 22 23 59.3 35.4N 88.1E 33 5.0b ¶97xi2363
BJI XI 14 22 23 59.4 35.52N 88.17E 35 4.8b,5.1s
NDI XI 14 22 23 59.5 35.2N 87.9E 4.8b
NEIC XI 14 22 23 59.5 35.26N 87.99E 33 4.8b
EIDC XI 14 22 24 02.0 35.4N 88.0E 35 4.1b,4.1L
ISC XI 14 23 37 19±2.0 **34.99N**±.075 **86.18E**±.077 **44**±20 **4.1b**,3.6s **30 7-150**
NEIC XI 14 23 37 17.7 34.98N 86.18E 33 ¶97xi2379
BJI XI 14 23 37 19.7 35.15N 86.39E 34 4.6b,4.3s
EIDC XI 14 23 37 22.4 35.0N 86.2E 59 3.9b,4.2L
NEIC Less reliable solution.
BJI XI 14 23 43 53.8 **35.17N** **87.52E** **28** **4.6b,3.9s** ¶97xi2381
EIDC XI 14 23 43 41.3 35.7N 87.9E 58 3.6L,3.2b
ISC XI 15 07 34 53±1.6 **34.25N**±.074 **85.72E**±.069 **48**±18 **4.1b** **30 9-87**
NEIC XI 15 07 34 51.7 34.21N 85.61E 33 4.1b ¶97xi2439
BJI XI 15 07 34 52.6 34.57N 85.99E 33 4.4b
EIDC XI 15 07 34 55.8 34.2N 85.6E 54 3.8b,4.4L
ISC XI 17 07 16 55.0±.37 **35.32N**±.063 **87.50E**±.052 **29** **4.1b,4.7s** **35 8-151**
EIDC XI 17 07 16 53.3 35.3N 87.4E 0 4.1b,4.5s ¶97xi2758
BJI XI 17 07 16 55.4 35.44N 87.68E 29 4.6b,5.0s
NDI XI 17 07 16 55.9 35.2N 87.3E 33 4.5b
NEIC XI 17 07 16 55.9 35.24N 87.39E 33 4.5b
ISC XI 17 11 26 43.2±.60 **35.48N**±.087 **88.05E**±.089 **33** **3.8b**,4.2s **19 6-73**
BJI XI 17 11 26 40.0 35.42N 88.00E 23 4.2L,4.3b ¶97xi2788
EIDC XI 17 11 26 40.7 35.4N 87.9E 0 3.7b,3.6L
NEIC XI 17 11 26 43.4 35.39N 87.95E 33 4.3b
BJI Ms4.2
NEIC Less reliable solution.
NDI XI 18 06 48 31.9 **29.45N** **85.15E** **33** **2.3L** ¶97xi2922
EIDC XI 18 06 48 24.1 28.5N 84.4E 0 3.7b,4.2L
ISC XI 19 21 58 28.8±.30 **34.97N**±.053 **86.90E**±.050 **33** **4.5b,4.3s** **52 6-88**
NDI XI 19 21 58 28.7 34.8N 86.8E 33 4.8b ¶97xi3322
NEIC XI 19 21 58 28.7 34.87N 86.88E 33 4.8b,4.4s
BJI XI 19 21 58 29.3 35.02N 86.91E 48 4.7b,4.7s
EIDC XI 19 21 58 31.2 34.9N 86.9E 38 3.9b,4.1s
ISC XI 19 23 23 36.9±.50 **31.94N**±.071 **82.85E**±.067 **33** **4.0b**,3.5s **24 6-76**
EIDC XI 19 23 23 35.3 32.1N 83.0E 0 4.0b,3.7s ¶97xi3335
NDI XI 19 23 23 35.4 31.3N 84.18E 33 2.3L
BJI XI 19 23 23 35.8 31.85N 82.75E 35 4.6b,4.2s
NEIC XI 19 23 23 36.8 31.93N 82.92E 33 4.2b
NEIC Less reliable solution.
EIDC XI 20 07 11 28.6 **34.4N** **83.6E** **0** **3.3b**,3.5L ¶97xi3414
ISC XI 20 16 17 20.0±.30 **35.23N**±.051 **87.44E**±.044 **33** **4.3b,4.6s** **53 9-151**
BJI XI 20 16 17 17.8 35.28N 87.57E 14 4.7b,4.8s ¶97xi3491
EIDC XI 20 16 17 19.7 35.2N 87.4E 14 4.2b,4.1L
NDI XI 20 16 17 20.2 35.1N 87.4E 33 4.4b
NEIC XI 20 16 17 20.2 35.18N 87.44E 33 4.4b
ISC XI 23 19 31 49±1.1 **35.7N**±.21 **87.8E**±.29 **33** **3.7b** **6 20-73**
EIDC XI 23 19 31 46.6 35.7N 87.8E 0 3.7b ¶97xi4182
ISC XI 24 00 50 47±2.2 **34.5N**±.12 **86.88E**±.086 **76**±25 **3.7b** **16 9-73**
BJI XI 24 00 50 42.0 34.64N 86.81E 33 4.0s ¶97xi4237
NDI XI 24 00 50 43.3 34.57N 86.8E 33
NEIC XI 24 00 50 43.3 34.57N 86.84E 33
EIDC XI 24 00 50 55.1 34.7N 87.2E 131 3.3b,3.5s
NEIC Less reliable solution.
ISC XI 24 02 01 07±4.8 **34.95N**±.072 **85.93E**±.067 **7**±31 **4.1b,4.1s** **26 8-87**
EIDC XI 24 02 01 07.9 35.0N 85.9E 0 4.0b,4.1s ¶97xi4244
NDI XI 24 02 01 10.2 34.9N 85.8E 33 4.4b
NEIC XI 24 02 01 10.2 34.94N 85.83E 33 4.4b
BJI XI 24 02 01 10.4 34.96N 86.09E 29 4.4b,4.4s
NEIC Less reliable solution.
NDI XI 25 21 36 48 **31.84N** **83.52E** **33** **3.1L** ¶97xi4584

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XI**	**28 03 39 42**±3.0	**35.1N**±.13	**87.5E**±.17	**98**±31	**3.8b**	**10**	**10-73**
NEIC	XI	28 03 39 35.3	35.06N	87.39E	33			¶97xi5001
BJI	XI	28 03 39 36.0	35.13N	87.59E	28	4.8b		
EIDC	XI	28 03 39 39.6	35.0N	87.3E	49	3.6b,3.6L		
NEIC	Single network solution.							
ISC	**XI**	**30 01 05 24**±2.6	**34.96N**±.071	**87.63E**±.069	**22**±21	**4.5b**	**28**	**6-88**
NDI	XI	30 01 05 25.3	34.89N	87.6E	33	4.5b		¶97xi5348
NEIC	XI	30 01 05 25.3	34.90N	87.63E	33	4.5b		
BJI	XI	30 01 05 25.9	35.11N	87.90E	32	4.4b,4.2s		
BJI	XI	30 01 05 27.2	35.22N	87.96E	35	4.4b,4.2s		
EIDC	XI	30 01 05 30.3	35.0N	87.6E	64	4.0b,4.1L		
ISC	**XII**	**03 12 25 54.1**±.23	**35.14N**±.036	**86.88E**±.035	**33**	**4.5b,4.6s**	**100**	**9-151**
EIDC	XII	03 12 25 50.9±.53	35.1N	87.0E	0	4.4b,4.5s		¶97xii0420
NDI	XII	03 12 25 52.9	35.04N	86.80E	33	4.7b		
MOS	XII	03 12 25 53.4	35.1N	86.9E	33	5.0b,4.7s		
BJI	XII	03 12 25 53.6	35.05N	86.86E	32	4.5L,4.7b		
NEIC	XII	03 12 25 53.9	35.04N	86.80E	33	4.7b		
EIDC	Error ellipse is semi−major=18.5km semi−minor=11.9km azimuth=50							
BJI	Ms5.1							
NDI	**XII**	**04 07 46 49.4**	**32.40N**	**80.87E**	**33**	**3.5b**		**¶97xii0574**
ISC	**XII**	**06 14 39 06**±5.5	**35.09N**±.077	**86.76E**±.077	**9**±35	**4.0b**	**19**	**7-71**
NEIC	XII	06 14 39 09.1	35.06N	86.72E	33	3.8b		¶97xii1447
BJI	XII	06 14 39 10.4	35.29N	86.80E	34	4.4b,4.3s		
EIDC	XII	06 14 39 12.2±4.69	35.0N	86.7E	38±44.4	3.8b,4.2L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=24.9km semi−minor=15.8km azimuth=45							
ISC	**XII**	**07 23 26 50.8**±.34	**35.51N**±.053	**88.02E**±.052	**33**	**4.3b,4.8s**	**49**	**6-81**
EIDC	XII	07 23 26 48.6±.65	35.3N	87.9E	0	4.1b,4.0L		¶97xii1810
NDI	XII	07 23 26 50.8	35.41N	87.93E	33	4.0b		
BJI	XII	07 23 26 50.8	35.58N	88.07E	33	5.0L,4.6b		
NEIC	XII	07 23 26 50.8	35.41N	87.93E	33	4.5b		
EIDC	Error ellipse is semi−major=24.1km semi−minor=14.2km azimuth=52							
BJI	Ms4.8							
NEIC	Less reliable solution.							
ISC	**XII**	**08 14 47 37**±3.0	**33.7N**±.16	**88.3E**±.20	**87**±33	**3.7b**	**9**	**5-73**
BJI	XII	08 14 47 35.7	33.83N	88.38E	49	4.3b		¶97xii1945
EIDC	XII	08 14 47 36.6±9.35	33.6N	88.2E	57±91.0	3.6b		
EIDC	Error ellipse is semi−major=76.3km semi−minor=22.5km azimuth=64							
ISC	**XII**	**18 01 52 03**±1.2	**35.47N**±.067	**88.93E**±.053	**56**±14	**4.2b,4.5s**	**50**	**8-81**
BJI	XII	18 01 51 58.8	35.60N	88.57E	32	5.0b,4.9s		¶97xii3692
NEIC	XII	18 01 51 59.9	35.59N	89.02E	33	4.7b		
EIDC	XII	18 01 52 08.3±6.09	35.4N	88.7E	98±58.4	3.4b,4.0s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=36.1km semi−minor=15.1km azimuth=50							
ISC	**XII**	**19 12 32 31**±1.1	**35.4N**±.21	**88.4E**±.44	**33**	**4.2b**	**6**	**19-55**
EIDC	XII	19 12 32 28.8±1.27	35.3N	88.0E	0	4.2b,4.1L		¶97xii3963
EIDC	Error ellipse is semi−major=81.0km semi−minor=21.1km azimuth=59							
ISC	**XII**	**22 15 28 03**±3.6	**35.04N**±.047	**86.17E**±.064	**10**±24	**3.9b,4.1s**	**40**	**7-87**
EIDC	XII	22 15 28 03.3±.72	35.0N	86.2E	0	3.8b,3.8s		¶97xii4439
NEIC	XII	22 15 28 05.1	34.92N	86.10E	33	3.6b		
BJI	XII	22 15 28 05.9	35.10N	86.09E	32	4.5b,4.5s		
EIDC	Error ellipse is semi−major=22.9km semi−minor=16.5km azimuth=59							
NEIC	Less reliable solution.							
ISC	**XII**	**25 09 47 11**±6.5	**33.8N**±.13	**88.1E**±.14	**22**±54	**3.4b**,2.9s	**20**	**6-82**
EIDC	XII	25 09 47 04.2±5.32	32.9N	85.7E	0	3.5b,3.0s		¶97xii4904
EIDC	Error ellipse is semi−major=247.0km semi−minor=23.4km azimuth=69							
ISC	**XII**	**29 16 35 40**±2.3	**31.1N**±.17	**88.5E**±.53	**33**	**3.8b**	**6**	**6-70**
EIDC	XII	29 16 35 34.7±3.33	30.9N	87.6E	0	3.9b,3.5L		¶97xii5612
EIDC	Error ellipse is semi−major=120.4km semi−minor=24.6km azimuth=74							
ISC	**XII**	**31 08 03 44**±3.6	**34.85N**±.077	**85.9E**±.14	**31**±31	**3.6b**,3.0s	**19**	**7-82**
EIDC	XII	31 08 03 42.5±1.29	35.1N	86.2E	0	3.6b,3.0s		¶97xii5861
NEIC	XII	31 08 03 44.5	34.98N	86.05E	33	3.7b		
BJI	XII	31 08 03 47.9	35.23N	86.46E	33	4.6b		
EIDC	Error ellipse is semi−major=54.5km semi−minor=24.4km azimuth=52							
NEIC	Poor solution.							
ISC	**XII**	**31 21 31 33**±3.0	**35.32N**±.046	**86.84E**±.051	**10**±20	**4.1b**,3.9s	**57**	**7-88**
BJI	XII	31 21 31 35.4	35.12N	87.03E	28	4.3b,3.8s		¶97xii5975
NEIC	XII	31 21 31 35.8	35.30N	86.88E	33	4.3b		
EIDC	XII	31 21 31 39.9±3.77	35.2N	86.9E	51±35.6	3.6b,4.2L		
EIDC	Error ellipse is semi−major=19.4km semi−minor=13.2km azimuth=49							

(307) Sichuan Province.

BJI	**VII**	**11 04 04 36.8**	**28.93N**	**102.89E**	**5**	**3.1L**		**¶97vii1626**
ISC	**VII**	**15 09 59 21**±1.9	**30.14N**±.046	**108.17E**±.070	**28**±15	**4.2b**,3.8s	**40**	**4-145**
EIDC	VII	15 09 59 19.1	30.1N	108.2E	0	4.2b,4.0L		¶97vii2287
BJI	VII	15 09 59 20.6	30.20N	108.08E	15	4.4L,4.4b		
NEIC	VII	15 09 59 22.0	30.16N	108.14E	33	4.5b		
BJI	Ms4.1							
BJI	**VII**	**23 01 19 04.5**	**29.39N**	**105.32E**	**8**	**2.9L**		**¶97vii3464**
ISC	**VIII**	**01 19 04 54**±3.3	**29.2N**±.19	**100.0E**±.45	**33**	**3.9b**	**10**	**4-62**
EIDC	VIII	01 19 04 04.1	36.9N	97.9E	0	3.7b,4.0L		¶97viii0102
BJI	VIII	01 19 05 00.9	28.86N	101.13E	15	3.8L,4.1s		
BJI	**VIII**	**03 22 36 57.5**	**27.10N**	**101.37E**	**5**	**3.0L**		**¶97viii0421**
BJI	**VIII**	**07 23 47 01.6**	**29.42N**	**106.22E**	**7**	**3.0L**		**¶97viii1015**
BJI	**VIII**	**08 22 36 13.0**	**28.10N**	**105.56E**	**12**	**3.7L**		**¶97viii1176**
ISC	**VIII**	**13 08 13 32**±1.4	**29.41N**±.033	**105.61E**±.041	**23**±10	**4.6b,4.4s**	**167**	**2-166**
BJI	VIII	13 08 13 30.6	29.45N	105.63E	17	4.9L,4.6b		¶97viii1874
MOS	VIII	13 08 13 33.3	29.5N	105.7E	33	5.1b,4.4s		
NEIC	VIII	13 08 13 33.4	29.43N	105.60E	37	4.8b,4.3s		
EIDC	VIII	13 08 13 35.1	29.5N	105.6E	35	4.2b,4.4L		
BJI	Ms4.9							
NEIC	Some damage in the Chongqing area. Also felt at Longchang.							
BJI	**VIII**	**15 02 31 03.1**	**31.54N**	**104.20E**	**20**	**3.5L**		**¶97viii2149**
BJI	**VIII**	**15 07 06 57.2**	**29.29N**	**101.76E**	**30**	**3.0L**		**¶97viii2173**
BJI	**VIII**	**17 06 19 05.4**	**29.34N**	**105.48E**	**16**	**3.0L**		**¶97viii2496**
BJI	**VIII**	**17 19 55 40.0**	**29.35N**	**105.77E**	**13**	**2.9L**		**¶97viii2577**
BJI	**VIII**	**23 09 53 08.0**	**29.51N**	**105.54E**	**6**	**3.1L**		**¶97viii3383**
BJI	**VIII**	**24 07 52 35.9**	**29.24N**	**102.28E**	**12**	**3.6L**		**¶97viii3497**
EIDC	VIII	24 07 52 31.5	28.3N	104.6E	0	3.7b		
BJI	**IX**	**13 05 33 49.2**	**27.60N**	**101.01E**	**10**	**3.3L**		**¶97ix1925**
BJI	**IX**	**22 13 58 50.3**	**32.78N**	**104.26E**	**11**	**3.3L**		**¶97ix3289**
BJI	**X**	**02 04 02 59.3**	**27.10N**	**101.70E**	**14**	**3.4L,3.7s**		**¶97x0202**
BJI	**X**	**04 11 08 33.5**	**29.85N**	**102.08E**	**9**	**3.3L,3.4s**		**¶97x0634**
BJI	**X**	**04 16 03 06.5**	**29.45N**	**102.57E**	**20**	**3.2L**		**¶97x0681**
BJI	**X**	**08 19 23 58.4**	**28.34N**	**104.89E**	**19**	**3.0L**		**¶97x1459**
BJI	**X**	**11 15 09 53.1**	**31.55N**	**104.32E**	**12**	**2.9L**		**¶97x1904**
BJI	**X**	**12 16 59 36.9**	**31.26N**	**103.50E**	**14**	**2.9L**		**¶97x2074**
BJI	**X**	**16 12 19 22.0**	**28.80N**	**103.79E**	**19**	**3.0L**		**¶97x2835**
BJI	**X**	**18 03 13 58.3**	**30.42N**	**102.93E**	**19**	**2.9L**		**¶97x3092**
ISC	**X**	**18 19 31 46**±1.3	**29.00N**±.073	**102.4E**±.14	**60**±14	**3.8b,**2.7s	**14**	**2-82**
NEIC	X	18 19 31 42.7	29.11N	102.65E	33	4.2b		¶97x3221
BJI	X	18 19 31 42.9	29.09N	102.00E	66	3.7L,3.9s		
EIDC	X	18 19 31 49.2	28.9N	102.5E	69	3.5b,2.7s		
NEIC	Less reliable solution.							
EIDC	LO CONF Depth							
BJI	**X**	**19 14 48 03.1**	**27.17N**	**102.83E**	**22**	**2.7L**		**¶97x3360**
BJI	**X**	**23 20 43 30.8**	**28.71N**	**102.12E**	**6**	**3.4L**		**¶97x4060**
ISC	**X**	**28 11 41 51**±1.2	**30.26N**±.062	**102.3E**±.12	**39**±14	**3.9b**	**15**	**1-72**
BJI	X	28 11 41 47.2	30.41N	102.21E	17	3.6L,4.1s		¶97x4755
NEIC	X	28 11 41 50.9	30.21N	102.36E	33			
EIDC	X	28 11 41 54.0	30.2N	102.4E	43	3.6b		
NEIC	Less reliable solution.							
BJI	**X**	**28 21 15 42.0**	**29.18N**	**103.50E**	**17**	**3.6L,3.5s**		**¶97x4817**
BJI	**X**	**31 05 13 14.5**	**26.25N**	**102.39E**	**20**	**3.5L**		**¶97x5132**
BJI	**XI**	**15 17 41 49.2**	**28.21N**	**103.89E**	**29**	**3.3L**		**¶97xi2512**
ISC	**XI**	**29 17 20 42**±1.5	**30.49N**±.092	**102.3E**±.15	**48**±19	**4.1b**	**11**	**1-82**
EIDC	XI	29 17 20 38.3	30.6N	102.2E	0	4.1b,3.2L		¶97xi5295
NEIC	XI	29 17 20 41.6	30.50N	102.11E	33			
BJI	XI	29 17 20 41.9	30.55N	102.33E	31	3.7L,4.1b		
NEIC	Less reliable solution.							
BJI	Ms3.5							
ISC	**XII**	**04 23 52 42.9**±.96	**27.13N**±.068	**102.68E**±.069	**69**±12	**3.9b**	**33**	**2-83**
BJI	XII	04 23 52 39.3	27.15N	102.77E	28	4.1L,4.5b		¶97xii0725
NEIC	XII	04 23 52 39.4	27.27N	102.52E	33	4.1b		
EIDC	XII	04 23 52 43.3±3.76	27.2N	102.6E	50±36.2	3.7b,3.9L		
BJI	Ms4.5							
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=22.3km semi−minor=15.2km azimuth=79							
BJI	**XII**	**17 22 10 49.4**	**29.23N**	**101.13E**	**10**	**3.8L**		**¶97xii3667**
ISC	**XII**	**25 06 04 55**±1.5	**32.3N**±.11	**104.7E**±.14	**55**±16	**3.7b**	**11**	**2-69**
EIDC	XII	25 06 04 50.2±.91	32.3N	104.7E	0	3.6b		¶97xii4876
NEIC	XII	25 06 04 52.8	32.32N	104.64E	33			
BJI	XII	25 06 04 53.3	32.67N	104.66E	28	3.7L		
EIDC	Error ellipse is semi−major=64.3km semi−minor=19.4km azimuth=60							
NEIC	Poor solution.							
BJI	**XII**	**30 07 09 37.9**	**28.63N**	**102.06E**	**15**	**3.4L,3.3s**		**¶97xii5697**

(308) Northern India.

ISC	**VII**	**29 18 00 20.6**±.84	**31.56N**±.054	**76.86E**±.046	**49**±8.0	**4.3b,4.3s**	**85**	**3-140**
NEIC	VII	29 18 00 18.7	31.55N	76.82E	33	4.7b		¶97vii4462
MOS	VII	29 18 00 18.8	31.6N	76.9E	33	4.9b,4.4s		
BJI	VII	29 18 00 19.5	31.65N	76.81E	32	4.6L,4.7b		
EIDC	VII	29 18 00 21.8	31.4N	76.9E	45	4.1b,4.5s		
NEIC	Felt in the Kangra and Sundarnagar areas.							
BJI	Ms4.5							
ISC	**VIII**	**13 23 10 18.2**±.96	**31.40N**±.077	**76.7E**±.12	**63**±11	**3.9b**	**17**	**1-86**
NEIC	VIII	13 23 10 15.0	31.21N	76.69E	33	4.2b		¶97viii1974
BJI	VIII	13 23 10 16.1	31.52N	76.98E	12	3.9L,4.4b		
EIDC	VIII	13 23 10 17.4	31.2N	76.7E	41	3.7b,4.5L		
NEIC	Less reliable solution.							
ISC	**X**	**17 17 36 32**±3.0	**31.6N**±.19	**75.8E**±.29	**38**±36	**4.2b**	**9**	**3-151**
EIDC	X	17 17 36 27.5	31.5N	75.7E	0	4.3b,5.1s		¶97x3030
NDI	**XI**	**09 10 38 44**	**28.35N**	**77.13E**	**0**	**2.2b**		**¶97xi1435**
NDI	**XI**	**22 14 00 40.2**	**31.7N**	**77.58E**	**33**	**2.4L**		**¶97xi3889**
NDI	**XII**	**19 20 06 28.4**	**29.81N**	**77.84E**	**33**	**2.3L**		**¶97xii4027**
NDI	**XII**	**23 11 55 27.5**	**30.71N**	**77.49E**	**33**	**3.0L**		**¶97xii4593**
NDI	**XII**	**29 03 29 26.2**	**29.96N**	**76.85E**	**33**	**3.4L**		**¶97xii5539**

(309) Nepal-India border region.

EIDC	**XII**	**07 16 08 08.2**±1.40	**28.7N**	**81.8E**	**0**	**3.7b**		**4-72**
EIDC	Error ellipse is semi−major=84.4km semi−minor=20.8km azimuth=56							¶97xii1732

(310) Nepal.

EIDC	**VIII**	**18 07 48 14.5**	**29.3N**	**82.5E**	**0**	**3.6b**		**56-79**
								¶97viii2640
ISC	**IX**	**17 01 22 14**±1.3	**29.57N**±.090	**83.54E**±.068	**49**±17	**3.9b**	**21**	**6-145**
BJI	IX	17 01 22 12.4	30.01N	83.44E	39	4.2b,4.0s		¶97ix2454
NEIC	IX	17 01 22 14.0	29.74N	83.70E	33	4.3b		
EIDC	IX	17 01 22 23.3	29.9N	84.2E	95	3.6b,4.4L		
NEIC	Less reliable solution.							
EIDC	LO CONF Depth							
ISC	**X**	**11 10 11 09.3**±.60	**27.65N**±.096	**86.2E**±.11	**33**	**4.0b**	**15**	**5-79**
EIDC	X	11 10 11 07.0	27.8N	86.4E	0	4.1b,4.4L		¶97x1876
NEIC	X	11 10 11 10.3	27.73N	86.50E	33	4.3b		
BJI	X	11 10 11 12.3	27.70N	86.50E	33	4.9b		
NEIC	Less reliable solution.							
ISC	**X**	**24 12 06 51.8**±.25	**28.58N**±.053	**82.36E**±.039	**33**	**4.7b,**4.4s	**86**	**5-150**
EIDC	X	24 12 06 48.8	28.6N	82.4E	0	4.6b,4.9L		¶97x4163
BJI	X	24 12 06 51.0	28.80N	82.49E	17	5.0b,4.4s		
NEIC	X	24 12 06 51.8	28.54N	82.35E	33	4.8b		
ISC	**XI**	**04 04 03 08.0**±.71	**28.7N**±.18	**85.3E**±.14	**33**	**4.0b**	**11**	**3-87**
EIDC	XI	04 04 03 05.5	28.8N	85.5E	0	4.1b,3.9s		¶97xi0571
NDI	XI	04 04 03 08.6	28.88N	85.60E	33	3.9b		
NEIC	XI	04 04 03 08.6	28.88N	85.61E	33	3.9b		
NEIC	Poor solution.							
ISC	**XI**	**25 20 40 42**±1.2	**27.4N**±.37	**86.9E**±.33	**33**	3.7b	**5**	**5-69**
EIDC	XI	25 20 40 39.9	27.4N	86.7E	0	3.7b,3.5L		¶97xi4573
ISC	**XI**	**26 21 56 36.2**±.62	**27.6N**±.11	**85.80E**±.086	**33**	**3.8b**	**17**	**5-80**
EIDC	XI	26 21 56 33.8	27.6N	85.9E	0	3.9b,4.1L		¶97xi4747
BJI	XI	26 21 56 35.5	27.50N	86.04E	27	4.0b		
NDI	XI	26 21 56 36.2	27.5N	85.78E				
NEIC	XI	26 21 56 36.2	27.53N	85.79E	33			
NEIC	Single network solution.							
ISC	**XI**	**27 16 11 57.0**±.19	**27.56N**±.035	**87.31E**±.031	**33**	**5.0b,4.3s**	**197**	**1-155**
EIDC	XI	27 16 11 53.9	27.5N	87.3E	0	4.8b,4.1s		¶97xi4894
MOS	XI	27 16 11 55.8	27.3N	87.3E	33	5.3b,4.4s		
BJI	XI	27 16 11 56.0	27.63N	87.34E	27	4.1L,5.0b		
NDI	XI	27 16 11 57	27.8N	87.0E	33	4.5b		
NEIC	XI	27 16 11 57.0	27.62N	87.35E	33	5.1b,4.2s		
BJI	Ms4.6							
ISC	**XI**	**27 16 55 51.2**±.58	**27.51N**±.079	**87.4E**±.12	**33**	**3.9b**	**23**	**1-79**
NDI	XI	27 16 55 22.1	27.74N	87.76E	33	4.2b		¶97xi4903
BJI	XI	27 16 55 51.3	27.60N	87.21E	32	3.1L		
NEIC	XI	27 16 55 52.1	27.74N	87.76E	33	4.2b		
EIDC	XI	27 16 55 53.0	27.5N	87.2E	31	3.7b,3.9L		
NEIC	Less reliable solution.							

ISC	**XII**	**08 02 03 55.9**±.18	**27.50N**±.033	**87.27E**±.031	**33**	**4.8b,4.4s**	**157**	**1-157**
EIDC	XII	08 02 03 53.0±.57	27.5N	87.2E	0	4.7b,4.8L		¶97xii1839
BJI	XII	08 02 03 54.4	27.52N	87.20E	30	4.4L,4.9b		
MOS	XII	08 02 03 55.1	27.4N	87.3E	33	5.1b,4.5s		
NDI	XII	08 02 03 55.8	27.45N	87.17E	33	5.0b		
NEIC	XII	08 02 03 55.8	27.48N	87.18E	33	5.0b,4.6s		
EIDC	Error ellipse is semi−major=17.3km semi−minor=13.1km azimuth=40							
BJI	Ms4.6							
ISC	**XII**	**08 06 37 57.8**±.54	**27.44N**±.083	**87.12E**±.074	**36**	**3.8b**	**17**	**1-123**
BJI	XII	08 06 37 54.4	27.21N	87.00E	36	4.0b		¶97xii1883
EIDC	XII	08 06 37 55.2±.94	27.5N	87.3E	0	3.9b,4.7L		
NDI	XII	08 06 37 57.8	27.48N	87.16E	33	3.8L		
NEIC	XII	08 06 37 57.8	27.48N	87.16E	33			
EIDC	Error ellipse is semi−major=33.7km semi−minor=21.6km azimuth=48							
NEIC	Less reliable solution.							

(313) India-China border region.

ISC	**VII**	**10 13 59 52**±1.7	**29.82N**±.038	**94.95E**±.040	**15**±13	**4.7b,4.5s**	**107**	**3-164**
BJI	VII	10 13 59 54.1	29.91N	95.08E	24	4.0L,4.7b		¶97vii1517
NEIC	VII	10 13 59 54.7	29.81N	94.92E	33	4.8b		
MOS	VII	10 13 59 55.3	29.8N	95.0E	33	5.0b,4.2s		
EIDC	VII	10 13 59 58.1	29.7N	95.0E	46	4.2b,4.3L		
BJI	Ms4.6							
ISC	**VII**	**24 21 06 08.0**±.69	**29.9N**±.12	**96.2E**±.11	**13**	**3.8b**	**20**	**4-74**
EIDC	VII	24 21 06 08.4	30.2N	96.0E	0	3.7b,4.3L		¶97vii3720
BJI	VII	24 21 06 08.7	30.56N	96.49E	13	3.6L,3.5s		
NEIC	VII	24 21 06 10.4	30.02N	96.02E	33	4.1b		
NEIC	Less reliable solution.							
ISC	**IX**	**25 18 51 18**±1.5	**30.0N**±.26	**96.9E**±.33	**33**	**3.8b**	**4**	**27-64**
EIDC	IX	25 18 51 15.0	30.0N	96.9E	0	3.8b		¶97ix3775
ISC	Poorly determined							
ISC	**XI**	**02 14 53 57**±3.7	**28.3N**±.20	**95.6E**±.37	**97**±43	**3.6b**	**11**	**4-76**
BJI	XI	02 14 53 47.1	27.90N	95.97E	32	3.6L		¶97xi0281
NEIC	XI	02 14 53 51.1	28.27N	96.11E	33	3.8b		
EIDC	XI	02 14 53 54.9	28.8N	97.1E	39	3.5b,3.6L		
NEIC	Less reliable solution.							
ISC	**XI**	**08 09 04 42**±2.0	**28.80N**±.045	**95.84E**±.051	**17**±15	**4.7b,3.7s**	**63**	**4-144**
NDI	XI	08 09 04 46.8	20.7N	95.0E	56	4.7b		¶97xi1241
NEIC	XI	08 09 04 46.8	28.77N	95.85E	58	4.7b		
BJI	XI	08 09 04 47.6	28.92N	96.05E	62	4.2L,4.8b		
EIDC	XI	08 09 04 48.9	28.8N	95.9E	57	4.2b,3.3s		
BJI	Ms4.2							
EIDC	**XII**	**23 21 10 19.7**±9.87	**28.8N**	**94.7E**	**0**	3.5b,3.8L		**4-64**
								¶97xii4657
EIDC	Error ellipse is semi−major=310.3km semi−minor=93.3km azimuth=87LO CONF Location							

(314) India.

NDI	**XI**	**13 20 17 56.6**	**21.55N**	**75.25E**	**8**	**4.3b**		**¶97xi2190**
NDI	**XI**	**22 19 40 49.2**	**23.05N**	**87.16E**	**33**	**2.1L**		**¶97xi3950**
ISC	**XI**	**23 01 34 44.5**±.79	**22.1N**±.11	**80.4E**±.13	**33**	**3.9b**	**13**	**2-67**
NDI	XI	23 01 34 40.2	22.2N	80.0E		4.6b		¶97xi3996
EIDC	XI	23 01 34 57.6	24.1N	79.3E	0	3.9b,4.4L		
NDI	**XI**	**23 15 34 04.8**	**17.25N**	**74.01E**	**33**	**2.0L**		**¶97xi4142**
NDI	**XI**	**25 10 27 14**	**17.3N**	**73.6E**		**1.4b**		**¶97xi4489**
NDI	**XII**	**20 10 14 48**	**17.30N**	**73.60E**	**33**	**2.9b**		**¶97xii4106**

(315) India-Bangladesh border region.

EIDC	**VII**	**20 08 38 26.1**	**25.4N**	**90.0E**	**0**	3.9b,4.0L		**11-65**	
									¶97vii3050
ISC	**VIII**	**02 22 28 34**±7.1	**22.9N**±.20	**92.8E**±.19	**27**±55	**3.7b**	**7**	**7-74**	
EIDC	VIII	02 22 28 32.1	22.9N	92.8E	0	3.8b,3.3L		¶97viii0264	
NEIC	VIII	02 22 28 34.2	22.89N	92.78E	33				
NEIC	Single network solution.								
ISC	**VIII**	**13 04 22 52**±2.6	**23.1N**±.27	**92.8E**±.57	**33**	**4.0b**	**5**	**7-61**	
EIDC	VIII	13 04 22 49.3	23.1N	92.7E	0	4.0b,3.6L		¶97viii1851	
ISC	**VIII**	**14 05 05 32.3**±.81	**24.4N**±.25	**92.0E**±.31	**33**	**4.1b**	**9**	**57-91**	
EIDC	VIII	14 05 05 29.1	24.4N	91.9E	0	4.2b		¶97viii2007	
EIDC	**IX**	**05 19 51 11.7**	**22.2N**	**92.1E**	**0**	**3.7b**,3.8L		¶97ix0791	
EIDC	**X**	**28 12 08 44.3**	**24.5N**	**93.0E**	**0**	3.7b,3.9L		¶97x4759	
EIDC	**XI**	**10 09 12 12.1**	**23.0N**	**92.4E**	**0**	3.7b,4.1L		¶97xi1588	
EIDC	LO CONF Location								
ISC	**XI**	**21 11 23 03**±1.2	**22.22N**±.024	**92.68E**±.021	**30**±8.9	**5.9b,5.7s**	**621**	**4-166**	
BJI	XI	21 11 23 05.4	22.40N	92.79E	38	6.1b,5.9s		¶97xi3641	
MOS	XI	21 11 23 06.2	22.3N	92.7E	49	6.5b,5.6s			
NEIC	XI	21 11 23 06.3	22.21N	92.70E	54	5.9b			
EIDC	XI	21 11 23 08.8	22.2N	92.7E	62	5.6b			
NDI	XI	21 11 23 09	22.0N	92.0E		6.0b			
HRVD	XI	21 11 23 09.1±.2	22.21N±.01	92.70E±.02	54				
NEIC	Mw6.1(GS), Me5.5(GS). Casualties.								
NEIC	Radiated energy from the USGS moment tensor solution: 4.4±1.5×10^{12}Nm/7								
NEIC	Moment tensor solution: s19, scale 10^{18}Nm; M_{rr}0.24; $M_{\theta\theta}$−0.65; $M_{\phi\phi}$0.41; $M_{r\theta}$−1.20; $M_{r\theta}$−0.09; $M_{\theta\phi}$0.67. Depth 50km; Principal axes: T 1.33,Plg42°,Azm140°; N 0.28,Plg32°, Azm264°; P −1.61,Plg31°,Azm17°. Best double couple: M0 1.5×10^{18}Nm; NP1:ϕ_S161°,δ33°, λ169°. NP2:ϕ_S260°,δ84°,λ57°.								
NEIC	Mw 6.1 (HRV). Twenty-three people killed, 200 injured and a five-story building collapsed at Chittagong, Bangladesh. Houses damaged at Alikadam, Bandarban, Lama and Nakhyaungcharipara, Bangladesh. Felt in much of Bangladesh as far north as Rangpur and Rajshahi. Two events about 1.75 seconds apart. Depth from synthetics of broadband displacement seismograms based on first event.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c74; Mantle waves: s23,c36; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}0.32±.02; $M_{\theta\theta}$−0.62±.02; $M_{\phi\phi}$0.29±.02; $M_{r\theta}$−1.20±.02; $M_{r\phi}$−0.15±.02; $M_{\theta\phi}$0.84±.01. Principal Axes: T 1.47,Plg41°,Azm139°; N 0.16,Plg36°,Azm268°; P −1.64,Plg28°,Azm21°. Best double couple: M0 1.5×10^{18}Nm, NP1:ϕ_S163°,δ37°,λ168°. NP2:ϕ_S263°,δ83°,λ54°.								
ISC	**XI**	**22 02 34 43.9**±.87	**22.20N**±.041	**92.66E**±.037	**53**±8.2	**4.8b,3.9s**	**134**	**4-157**	
BJI	XI	22 02 34 43.1	22.25N	92.64E	46	4.5L,4.6b		¶97xi3786	
NDI	XI	22 02 34 43.7	22.1N	92.6E	53	4.8b			
NEIC	XI	22 02 34 43.7	22.15N	92.61E	53	4.8b			
EIDC	XI	22 02 34 45.6	22.2N	92.7E	52	4.4b,3.7s			
BJI	Ms4.1								
NEIC	Felt at Bandarban, Chittagong, Cox's Bazar and Rangamati, Bangladesh.								
ISC	**XII**	**24 21 51 47**±5.5	**24.9N**±.95	**91.1E**±.15	**150**		**15**	**1-10**	
									¶97xii4828
ISC	**XII**	**27 12 05 02.0**±.82	**25.5N**±.13	**91.30E**±.082	**41**±10	**3.9b**	**25**	**1-75**	
EIDC	XII	27 12 05 01.8±.84	25.3N	90.9E	25±4.6	3.7b,3.9L		¶97xii5287	
EIDC	Error ellipse is semi−major=57.7km semi−minor=13.8km azimuth=55								

(316) Bangladesh.

ISC	**VIII**	**05 15 59 04.1**±.49	**23.19N**±.075	**90.98E**±.067	**33**	**4.1b,3.9s**	**29**	**6-82**	
EIDC	VIII	05 15 59 01.9	23.2N	91.0E	0	4.1b,3.5s		¶97viii0689	
NEIC	VIII	05 15 59 04.0	23.20N	90.98E	33	4.1b			
BJI	VIII	05 15 59 04.1	23.21N	91.22E	29	4.4b,4.2s			
NEIC	Less reliable solution.								
ISC	**XI**	**10 06 31 35.3**±.74	**24.2N**±.13	**89.4E**±.12	**33**	**3.9b**	**11**	**2-71**	
EIDC	XI	10 06 31 32.3	24.0N	89.0E	0	3.9b,4.5L		¶97xi1571	
NDI	XI	10 06 31 34.8	24.2N	89.4E	33				
NEIC	XI	10 06 31 34.8	24.28N	89.41E	33				
NEIC	Poor solution.								

(317) Eastern India.

ISC	**VII**	**18 19 39 23.4**±.24	**26.83N**±.047	**91.80E**±.040	**46**±1.2*	**4.9b,3.8s**	**154**	**3-152**	
BJI	VII	18 19 39 22.8	26.86N	91.87E	43	4.7b,4.1s		¶97vii2781	
NEIC	VII	18 19 39 23.4	26.81N	91.79E	47	5.0b			
EIDC	VII	18 19 39 25.0	26.8N	91.8E	45	4.4b,3.7s			
ISC	**VII**	**18 21 34 56**±1.3	**27.7N**±.64	**93.1E**±.78	**33**	**3.8b**	**5**	**43-64**	
EIDC	VII	18 21 34 52.9	27.3N	92.6E	0	3.7b		¶97vii2793	
EIDC	**VIII**	**05 07 05 23.5**	**26.9N**	**93.0E**	**0**	3.7b		**10-64**	
								¶97viii0625	
ISC	**VIII**	**06 08 58 24**±3.6	**26.0N**±.17	**92.9E**±.16	**58**±38	**3.9b**	**11**	**9-78**	
BJI	VIII	06 08 58 14.0	26.41N	92.32E	10	4.4b		¶97viii0776	
NEIC	VIII	06 08 58 21.3	25.63N	92.19E	41	4.9b			
EIDC	VIII	06 08 58 23.6	25.5N	91.9E	37	3.5b,4.1L			
NEIC	Poor solution.								
EIDC	**VIII**	**25 06 46 01.1**	**27.5N**	**94.2E**	**0**	4.3b,3.9L		**10-64**	
								¶97viii3660	
ISC	**IX**	**13 21 21 14**±1.1	**26.4N**±.14	**90.7E**±.18	**33**	**4.0b**	**8**	**11-65**	
EIDC	IX	13 21 21 10.9	26.0N	90.3E	0	3.9b,4.6L		¶97ix2037	
EIDC	**X**	**02 06 21 05.7**	**25.3N**	**93.1E**	**0**	3.6b,3.6L		¶97x0222	
EIDC	LO CONF Location								
ISC	**X**	**08 03 02 46**±1.0	**25.05N**±.052	**93.46E**±.046	**66**±11	**4.3b**	**62**	**5-123**	
NEIC	X	08 03 02 44.7	24.96N	93.33E	52	4.5b		¶97x1344	
EIDC	X	08 03 02 47.1	25.0N	93.5E	51	4.1b,3.7s			
BJI	X	08 03 02 48.7	25.44N	93.56E	52	4.5L,4.7b			
BJI	Ms4.2								
EIDC	**X**	**11 15 26 49.5**	**27.0N**	**94.0E**	**0**	3.7b,3.9L		¶97x1906	
EIDC	**XI**	**03 21 05 04.7**	**27.0N**	**93.5E**	**0**	4.0b,3.7L		¶97xi0519	
EIDC	**XI**	**04 11 05 40.5**	**27.1N**	**94.2E**	**0**	**3.9b**,4.6L		¶97xi0622	
ISC	**XI**	**27 12 56 46**±4.4	**26.5N**±.23	**92.2E**±.74	**33**	**3.8b**	**4**	**10-64**	
EIDC	XI	27 12 56 40.1	26.7N	91.6E	0	3.8b,3.6L		¶97xi4860	
ISC	Poorly determined								

(318) Yunnan Province.

BJI	**VII**	**02 21 42 59.6**	**24.99N**	**99.32E**	**24**	**3.4L,3.4s**		**¶97vii0302**	
BJI	**VII**	**08 22 05 27.5**	**25.84N**	**102.17E**	**14**	**2.9L**		**¶97vii1241**	
BJI	**VII**	**09 07 25 19.6**	**26.11N**	**99.37E**	**6**	**3.4L,3.4s**		**¶97vii1295**	
BJI	**VII**	**12 00 58 38.3**	**26.76N**	**101.10E**	**17**	**3.0L**		**¶97vii1750**	
ISC	**VII**	**21 16 47 03**±2.4	**25.95N**±.058	**99.83E**±.071	**21**±20	**3.9b**,2.5s	**29**	**3-121**	
BJI	VII	21 16 47 00.8	25.84N	99.99E	8	4.2L,4.4b		¶97vii3263	
NEIC	VII	21 16 47 04.4	25.93N	99.76E	33	4.3b			
EIDC	VII	21 16 47 06.0	26.0N	99.7E	22	3.8b,2.9s			
BJI	Ms4.1								
BJI	**VII**	**21 17 39 45.1**	**25.72N**	**100.04E**	**10**	**3.0L**		**¶97vii3269**	
ISC	**VII**	**28 18 57 56**±3.4	**27.78N**±.076	**99.93E**±.099	**27**±26	**3.9b**,3.0s	**20**	**4-97**	
EIDC	VII	28 18 57 54.1	27.9N	100.1E	0	3.9b,3.0s		¶97vii4317	
BJI	VII	28 18 57 55.6	27.97N	99.87E	17	3.6L,4.5b			
NEIC	VII	28 18 57 56.4	27.76N	99.98E	33	4.3b			
BJI	Ms3.9								
NEIC	Less reliable solution.								
BJI	**VIII**	**23 16 24 07.8**	**27.00N**	**100.90E**	**14**	**3.0L**		**¶97viii3423**	
ISC	**VIII**	**26 06 37 40**±1.4	**27.5N**±.11	**103.9E**±.19	**21**		**4**	**3-8**	
BJI	VIII	26 06 37 39.8	27.48N	103.93E	21	3.6L		¶97viii3799	
ISC	Poorly determined								
BJI	**IX**	**08 19 51 15.3**	**25.51N**	**100.66E**	**15**	**3.0L**		**¶97ix1270**	
BJI	**IX**	**22 20 37 39.8**	**25.49N**	**100.50E**	**27**	**3.4L**		**¶97ix3326**	
BJI	**X**	**11 22 53 07.5**	**25.55N**	**99.03E**	**10**	**2.7L**		**¶97x1951**	
ISC	**X**	**14 18 58 28**±1.7	**27.0N**±.10	**100.2E**±.25	**16**	**3.7b**	**8**	**3-60**	
BJI	X	14 18 58 26.0	26.96N	100.39E	16	3.5L		¶97x2472	
EIDC	X	14 18 58 28.8	26.7N	101.4E	0	3.6b,3.3L			
BJI	**X**	**14 23 35 06.1**	**26.95N**	**100.18E**	**8**	**3.1L**		**¶97x2514**	
BJI	**X**	**16 22 35 11.3**	**27.32N**	**100.44E**	**7**	**3.0L**		**¶97x2889**	
ISC	**X**	**19 11 52 29**±3.2	**28.88N**±.083	**99.3E**±.11	**26**±28	**3.8b**	**13**	**5-80**	
BJI	X	19 11 52 27.6	28.97N	99.35E	17	3.7L,4.5b		¶97x3343	
NEIC	X	19 11 52 29.4	28.83N	99.25E	33				
EIDC	X	19 11 52 35.7	28.7N	99.3E	78	3.6b,2.8s			
BJI	Ms4.0								
NEIC	Less reliable solution.								
EIDC	LO CONF Depth								
ISC	**X**	**22 16 10 28**±2.2	**25.43N**±.067	**101.40E**±.082	**3**±15	**4.1b**,3.0s	**25**	**1-81**	
EIDC	X	22 16 10 30.1	25.5N	101.3E	0	3.9b,3.0s		¶97x3844	
BJI	X	22 16 10 32.1	25.53N	101.58E	21	4.0L,4.3b			
NEIC	X	22 16 10 32.6	25.38N	101.40E	33	4.2b			
BJI	Ms4.2								
NEIC	Less reliable solution.								
ISC	**X**	**23 12 28 34.4**±.79	**26.97N**±.031	**100.39E**±.038	**40**±7.8	**4.9b,4.6s**	**190**	**3-149**	
EIDC	X	23 12 28 30.0	26.9N	100.4E	0	4.7b,4.4s		¶97x3993	
BJI	X	23 12 28 32.3	27.00N	100.38E	23	4.7L,5.2b			
NEIC	X	23 12 28 33.4	27.00N	100.39E	33	5.1b,4.6s			
MOS	X	23 12 28 33.9	27.0N	100.5E	33	5.5b,4.6s			
HRVD	X	23 12 28 38.2±.9	27.14N±.15	100.55E±.20	15				
BJI	Ms5.3								
NEIC	Mw5.1(HRV)								
NEIC	Some damage to houses in the Lijiang area.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c18; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.36±.36; $M_{\theta\theta}$0.12±.41; $M_{\phi\phi}$3.24±.51; $M_{r\theta}$0.31±1.62; $M_{r\phi}$−4.49±2.97; $M_{\theta\phi}$−1.03±.36. Principal Axes: T 5.71,Plg26°,Azm78°; N −0.08,Plg7°,Azm171°; P −5.64,Plg63°,Azm274°. Best double couple: M0 5.7×10^{16}Nm, NP1: ϕ_S153°,δ20°,λ−110°. NP2:ϕ_S353°,δ72°,λ−83°.								
BJI	**X**	**27 12 22 00.2**	**26.56N**	**100.68E**	**15**	**3.2L**		**¶97x4609**	
BJI	**X**	**30 01 50 08.4**	**23.89N**	**104.93E**	**15**	**3.1L**		**¶97x4975**	
BJI	**X**	**31 17 20 49.2**	**25.52N**	**99.68E**	**23**	**2.9L**		**¶97x5209**	
BJI	**XI**	**01 18 29 43.0**	**26.84N**	**100.12E**	**24**	**2.8L**		**¶97xi0120**	
BJI	**XI**	**03 20 50 42.6**	**25.17N**	**99.09E**	**10**	**3.1L,3.4s**		**¶97xi0516**	
BJI	**XI**	**04 13 40 40.3**	**26.91N**	**100.35E**	**13**	**3.4L**		**¶97xi0647**	
EIDC	XI	04 13 40 23.5	30.3N	101.5E	0	3.5b,4.1L			

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XI**	**06 06 08 55**±2.0	**25.7N**±.11	**102.2E**±.26	**12**	3.6b	**6**	**1-58**
BJI	XI	06 06 08 55.6	25.83N	102.46E	12	3.6L		¶97xi0931
EIDC	XI	06 06 09 08.4	25.6N	105.5E	0	3.4b,3.9L		
EIDC	LO CONF Location							
ISC	**XI**	**17 06 53 21**±1.1	**27.02N**±.058	**100.35E**±.083	**58**±12	**4.2b**	**29**	**3-80**
NEIC	XI	17 06 53 18.3	27.07N	100.40E	33	4.1b		¶97xi2753
BJI	XI	17 06 53 18.5	27.07N	100.35E	33	4.2L,4.6b		
EIDC	XI	17 06 53 23.0	27.1N	100.6E	58	3.9b		
BJI	Ms4.1							
BJI	**XI**	**19 16 03 28.9**	**24.49N**	**101.96E**	**25**	**3.1L**		**¶97xi3252**
BJI	**XI**	**26 10 14 36.8**	**24.80N**	**101.21E**	**15**	**3.2L**		**¶97xi4668**
BJI	**XI**	**26 12 45 13.1**	**25.63N**	**100.03E**	**29**	**3.0L**		**¶97xi4685**
BJI	**XI**	**27 07 32 22.4**	**26.11N**	**103.15E**	**13**	**3.0L**		**¶97xi4825**
ISC	**XI**	**29 06 14 40**±1.1	**27.03N**±.070	**100.37E**±.084	**61**±15	**4.5b**	**17**	**3-66**
BJI	XI	29 06 14 37.5	27.06N	100.40E	32	4.4L,4.6b		¶97xi5209
NEIC	XI	29 06 14 37.5	27.06N	100.28E	33	4.3b		
BJI	Ms4.4							
NEIC	Less reliable solution.							
BJI	**XI**	**29 08 30 21.3**	**23.73N**	**100.53E**	**15**	**3.8L**		**¶97xi5224**
BJI	**XII**	**02 02 16 13.1**	**27.91N**	**100.97E**	**8**	**3.6L,3.7s**		**¶97xii0170**
BJI	**XII**	**14 09 06 11.4**	**27.93N**	**103.11E**	**18**	**2.9L**		**¶97xii3122**
BJI	**XII**	**15 21 33 26.2**	**25.81N**	**99.79E**	**17**	**2.6L**		**¶97xii3346**
BJI	**XII**	**16 19 09 12.5**	**26.88N**	**100.30E**	**8**	**2.9L**		**¶97xii3490**
ISC	**XII**	**26 18 30 06.5**±.82	**27.04N**±.098	**100.09E**±.082	**24**	3.9b	**13**	**3-60**
EIDC	XII	26 18 29 51.0	28.2N	99.3E	0	3.8b,3.1L		¶97xii5185
BJI	XII	26 18 30 05.0	26.98N	100.29E	24	3.3L		
EIDC	Origin time error = 10.56Error ellipse is semi−major=230.1km semi−minor=73.7km azimuth=123							
BJI	**XII**	**27 05 43 10.3**	**24.06N**	**100.39E**	**15**	**3.3L**		**¶97xii5258**

SEISMIC REGION 27.
SOUTHERN XINJIANG TO GANSU.

(320) Kirgiziya-Xinjiang border region.

ISC	**VIII**	**13 14 30 12.8**±.66	**41.92N**±.032	**79.69E**±.031	**48**±6.3	**5.0b,4.6s**	**284**	**1-158**
BJI	VIII	13 14 30 10.5	42.01N	79.75E	29	5.0b,4.6s		¶97viii1919
NEIC	VIII	13 14 30 10.9	41.91N	79.70E	33	5.0b,4.6s		
MOS	VIII	13 14 30 11.0	42.0N	79.9E	33	5.2b,4.6s		
EIDC	VIII	13 14 30 14.5	41.9N	79.7E	54	4.6b,4.4s		
NEIC	Felt I=III MM at Alma−Ata, Kazakhstan and Karakol, Kyrgyzstan.							
MOS	Felt I=III MSK at Przevalsk; I=II−III at Alma−Ata.							
ISC	**IX**	**20 20 35 10**±1.5	**40.6N**±.12	**77.7E**±.13	**37**±17	**3.5b**	**11**	**2-82**
EIDC	IX	20 20 35 05.8	40.2N	77.5E	0	3.6b,3.9L		¶97ix3005
BJI	IX	20 20 35 08.6	40.51N	77.78E	23	4.2L		
NEIC	IX	20 20 35 09.2	40.24N	77.47E	33	3.6b		
NEIC	Poor solution.							
ISC	**IX**	**27 11 17 54**±5.4	**40.1N**±.22	**77.7E**±.39	**30**±54	**3.8b**	**7**	**2-45**
BJI	IX	27 11 17 54.1	40.19N	77.59E	19	3.6L		¶97ix4342
NEIC	IX	27 11 17 54.2	40.13N	77.73E	33			
EIDC	IX	27 11 17 55.2	40.3N	77.0E	0	3.9b,3.7L		
NEIC	Poor solution.							
BJI	**IX**	**30 13 35 04.7**	**40.04N**	**77.24E**	**15**	**3.6L,3.8b**		**¶97ix5239**
ISC	**X**	**07 09 48 06.8**±.51	**42.26N**±.077	**80.94E**±.086	**33**	**3.8b**,3.3s	**28**	**3-82**
BJI	X	07 09 48 00.9	42.39N	80.78E	9	4.4L,4.2b		¶97x1221
EIDC	X	07 09 48 03.6	42.0N	80.7E	0	4.0b,3.2s		
MOS	X	07 09 48 05.9	42.2N	80.9E	33	4.7b		
NEIC	X	07 09 48 06.4	42.04N	80.70E	33	3.8b		
NEIC	Less reliable solution.							
ISC	**X**	**11 20 00 54.5**±.81	**42.2N**±.11	**80.5E**±.16	**33**	**3.7b**	**9**	**4-67**
BJI	X	11 20 00 51.9	42.10N	80.66E	22	3.6L		¶97x1935
EIDC	X	11 20 00 52.0	42.3N	80.6E	0	3.9b,4.2L		
NEIC	X	11 20 00 54.4	42.18N	80.48E	33			
NEIC	Single network solution.							
BJI	**XII**	**05 02 00 10.0**	**40.78N**	**77.91E**	**28**	**3.9L,4.1b**		**¶97xii0760**
BJI	Ms4.5							
BJI	**XII**	**09 13 17 52.4**	**40.01N**	**77.12E**	**49**	**3.6L**		**¶97xii2173**
BJI	**XII**	**10 17 00 13.7**	**40.25N**	**77.72E**	**15**	**3.6L**		**¶97xii2395**
BJI	**XII**	**16 08 24 31.0**	**41.16N**	**79.08E**	**5**	**3.3L,3.8b**		**¶97xii3415**

(321) Southern Xinjiang Province.

BJI	**VII**	**01 18 24 21.8**	**39.22N**	**77.15E**	**19**	**3.7L**		**¶97vii0125**
BJI	**VII**	**05 06 12 37.6**	**37.74N**	**76.74E**	**31**	**3.5L**		**¶97vii0689**
ISC	**VII**	**13 01 09 29.3**±.87	**39.7N**±.11	**77.1E**±.13	**19**	**3.6b**	**12**	**1-78**
EIDC	VII	13 01 09 28.1	39.7N	77.2E	0	3.7b,4.2L		¶97vii1901
NEIC	VII	13 01 09 30.2	39.65N	77.24E	33	3.6b		
BJI	VII	13 01 09 31.2	39.60N	76.95E	19	3.7L,4.8b		
NEIC	Less reliable solution.							
ISC	**VIII**	**16 01 04 27.6**±.68	**39.64N**±.035	**74.04E**±.037	**58**±7.0	**4.6b,4.0s**	**154**	**1-153**
BJI	VIII	16 01 04 23.2	39.66N	73.98E	19	4.4L,5.0b		¶97viii2300
NEIC	VIII	16 01 04 24.7	39.64N	74.03E	33	4.7b,4.2s		
MOS	VIII	16 01 04 25.3	39.6N	74.0E	33	4.8b,4.2s		
EIDC	VIII	16 01 04 31.7	39.5N	74.0E	89	4.3b,4.0s		
BJI	Ms4.4							
ISC	**VIII**	**20 22 10 15**±2.8	**38.8N**±.16	**90.7E**±.22	**67**±27	**3.5b**	**9**	**5-74**
BJI	VIII	20 22 10 06.2	38.30N	90.62E	23	3.8L		¶97viii3023
EIDC	VIII	20 22 10 08.4	38.8N	90.6E	0	3.5b,4.3L		
NEIC	VIII	20 22 10 11.2	38.79N	90.66E	33			
NEIC	Single network solution.							
BJI	**IX**	**04 08 17 39.7**	**38.25N**	**76.43E**	**33**	**3.7L**		**¶97ix0568**
EIDC	**IX**	**07 14 55 32.3**	**38.9N**	**87.8E**	**0**	**3.3b**		**¶97ix1089**
BJI	**IX**	**08 12 13 21.5**	**39.76N**	**77.42E**	**29**	**3.5L**		**¶97ix1219**
ISC	**IX**	**09 08 16 36.8**±.90	**39.82N**±.049	**75.38E**±.054	**45**±9.7	**4.6b,4.2s**	**75**	**1-92**
NEIC	IX	09 08 16 35.4	39.84N	75.42E	33	4.8b,4.3s		¶97ix1341
BJI	IX	09 08 16 36.0	39.89N	75.44E	21	4.7L,4.3b		
EIDC	IX	09 08 16 40.2	39.8N	75.4E	61	4.1b,5.0L		
BJI	Ms4.5							
ISC	**IX**	**15 13 53 40.2**±.66	**38.24N**±.052	**75.12E**±.074	**148**±7.8	**4.0b**	**39**	**1-83**
BJI	IX	15 13 53 40.0	38.25N	75.19E	139	4.4b		¶97ix2250
NEIC	IX	15 13 53 40.4	38.27N	75.17E	150	4.5b		
EIDC	IX	15 13 53 42.5	38.1N	75.1E	159	3.7b		
BJI	**IX**	**15 14 32 50.5**	**38.68N**	**78.33E**	**10**	**3.5L**		**¶97ix2254**
BJI	**IX**	**19 15 08 49.1**	**39.44N**	**76.80E**	**20**	**3.6L**		**¶97ix2804**
EIDC	**IX**	**24 03 44 33.9**	**41.8N**	**80.8E**	**0**	**3.7b**		**¶97ix3520**
ISC	**X**	**04 12 38 25.2**±.79	**38.91N**±.046	**75.63E**±.089	**45**±9.2	**3.9b**,3.4s	**31**	**1-83**
BJI	X	04 12 38 19.8	38.55N	75.50E	24	4.2L,3.7b		¶97x0645
EIDC	X	04 12 38 20.3	38.6N	75.2E	0	4.0b,4.2L		
MOS	X	04 12 38 21.7	38.8N	74.6E	33	4.6b		
NEIC	X	04 12 38 23.5	38.80N	75.40E	33	4.4b		
BJI	Ms3.8							
NEIC	Less reliable solution.							
BJI	**X**	**12 04 53 22.0**	**39.28N**	**77.01E**	**20**	**3.5L**		**¶97x1989**
BJI	**X**	**12 11 59 50.4**	**41.26N**	**90.70E**	**26**	**3.8L**		**¶97x2037**
BJI	**X**	**13 03 42 58.7**	**39.48N**	**76.93E**	**14**	**3.3L**		**¶97x2156**
BJI	**X**	**13 20 01 52.1**	**39.47N**	**76.93E**	**9**	**3.3L**		**¶97x2277**
BJI	**X**	**14 11 43 33.7**	**36.01N**	**80.55E**	**24**	**3.8L**		**¶97x2391**
BJI	**X**	**14 16 48 32.9**	**39.98N**	**77.00E**	**26**	**3.6L**		**¶97x2448**
ISC	**X**	**15 10 58 28**±3.1	**37.3N**±.39	**80.6E**±.30	**25**	**3.7b,**2.9s	**9**	**4-72**
EIDC	X	15 10 58 21.7	36.6N	80.6E	0	3.7b,3.9L		¶97x2609
BJI	X	15 10 58 34.3	37.43N	81.02E	25	4.0L		
BJI	**X**	**15 17 14 09.7**	**39.26N**	**76.85E**	**16**	**3.4L**		**¶97x2681**
ISC	**X**	**17 17 35 14**±1.2	**39.44N**±.035	**76.86E**±.038	**24**±8.9	**4.6b,5.1s**	**174**	**1-155**
BJI	X	17 17 35 13.8	39.49N	76.71E	25	4.6b,5.4s		¶97x3029
MOS	X	17 17 35 16.7	39.6N	76.9E	33	5.0b,5.2s		
NEIC	X	17 17 35 17.5	39.54N	76.84E	49	4.8b,5.1s		
HRVD	X	17 17 35 17.6±.4	39.59N±.06	77.07E±.05	33			
EIDC	X	17 17 35 21.2	39.4N	76.8E	66	3.9b		
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c53; Half duration: 1s2. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.47±.37; $M_{\theta\theta}$−6.87±.55; $M_{\phi\phi}$8.34±.54; $M_{r\theta}$1.53±1.11; $M_{r\phi}$1.37±1.43; $M_{\theta\phi}$8.88±.51. Principal Axes: T 12.7,Plg8°,Azm295°; N −1.7, Plg81°,Azm81°; P −11.0,Plg5°,Azm204°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S339°, δ81°,λ178°. NP2:ϕ_S70°,δ88°,λ9°.							
BJI	**X**	**17 18 02 51.8**	**39.60N**	**76.95E**	**27**	**3.5L**		**¶97x3034**
BJI	**X**	**17 18 12 22.2**	**39.01N**	**77.10E**	**25**	**3.6L**		**¶97x3037**
BJI	**X**	**17 18 40 32.2**	**39.47N**	**76.83E**	**26**	**3.5L**		**¶97x3040**
BJI	**X**	**18 03 29 01.8**	**39.60N**	**76.93E**	**31**	**3.7L**		**¶97x3096**
BJI	**X**	**18 20 52 59.5**	**39.73N**	**77.52E**	**25**	**3.6L**		**¶97x3232**
BJI	**X**	**19 12 22 55.0**	**39.49N**	**76.77E**	**24**	**3.5L**		**¶97x3346**
ISC	**X**	**22 18 44 33**±1.2	**39.53N**±.072	**76.6E**±.11	**50**±14	**3.9b**	**23**	**0-70**
BJI	X	22 18 44 30.0	39.63N	76.95E	22			¶97x3870
NEIC	X	22 18 44 32.2	39.53N	76.49E	33	4.1b		
EIDC	X	22 18 44 32.2	39.6N	76.5E	17	3.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**04 08 08 42.6**±.92	**39.37N**±.049	**76.68E**±.081	**55**±10	**4.0b,4.3s**	**42**	**1-82**
NDI	XI	04 08 08 38.4	39.28N	76.63E	20	4.5b		¶97xi0597
NEIC	XI	04 08 08 38.4	39.29N	76.63E	20	4.5b		
EIDC	XI	04 08 08 39.7	39.3N	76.6E	17	4.0b,4.3L		
BJI	XI	04 08 08 41.4	39.54N	76.92E	32	4.7L,4.2b		
BJI	Ms4.7							
BJI	**XI**	**05 11 59 25.4**	**39.97N**	**77.48E**	**12**	**3.5L**		**¶97xi0790**
ISC	**XI**	**07 19 43 42**±1.6	**39.0N**±.28	**88.7E**±.61	**33**	**3.6b**	**4**	**15-75**
EIDC	XI	07 19 43 39.2	38.9N	88.6E	0	3.6b,4.7L		¶97xi1163
ISC	Poorly determined							
BJI	**XI**	**09 17 03 48.2**	**39.53N**	**76.91E**	**28**	**3.6L**		**¶97xi1475**
EIDC	XI	09 17 03 46.2	39.4N	76.4E	0	3.6b		
ISC	**XI**	**10 16 28 51.1**±.99	**36.3N**±.16	**88.8E**±.19	**33**	**4.0b**	**6**	**18-73**
EIDC	XI	10 16 28 48.0	36.3N	88.8E	0	3.5b,4.1L		¶97xi1637
NEIC	XI	10 16 28 51.0	36.32N	88.84E	33			
NEIC	Single network solution.							
BJI	**XI**	**12 00 26 36.5**	**39.58N**	**77.26E**	**29**	**3.6L**		**¶97xi1907**
BJI	**XI**	**14 10 14 27.6**	**37.13N**	**81.07E**	**29**	**3.5L**		**¶97xi2274**
ISC	**XI**	**14 19 13 35**±2.6	**36.1N**±.14	**89.1E**±.41	**54**±32	**3.7b,**3.2s	**7**	**7-73**
BJI	XI	14 19 13 24.7	32.21N	82.95E	30	4.4b,4.1s		¶97xi2339
EIDC	XI	14 19 13 29.6	35.9N	89.1E	0	3.8b,3.2s		
NDI	**XI**	**16 17 11 11.7**	**38.47N**	**76.19E**	**33**	**2.3L**		**¶97xi2674**
ISC	**XI**	**21 09 16 24.8**±.79	**38.21N**±.055	**76.1E**±.13	**132**±9.6	**3.5b**	**23**	**1-82**
NDI	XI	21 09 16 15.4	38.6N	76.7E	33	4.1b		¶97xi3629
NEIC	XI	21 09 16 15.4	38.64N	76.71E	33	4.1b		
EIDC	XI	21 09 16 27.5	38.0N	75.8E	146	3.4b		
BJI	XI	21 09 16 30.8	38.50N	76.75E	25	3.9L,4.0b		
NEIC	Less reliable solution.							
BJI	**XI**	**22 08 21 41.3**	**37.85N**	**84.86E**	**7**	**4.4L**		**¶97xi3836**
BJI	**XI**	**22 20 46 44.8**	**40.09N**	**78.55E**	**10**	**3.5L**		**¶97xi3960**
BJI	**XI**	**25 20 46 57.5**	**39.36N**	**77.24E**	**5**	**3.6L**		**¶97xi4574**
ISC	**XII**	**04 15 59 02**±1.7	**35.67N**±.086	**81.7E**±.12	**53**±17	**3.7b**	**16**	**6-83**
EIDC	XII	04 15 58 56.5±.76	35.5N	81.5E	0	3.7b,3.9L		¶97xii0643
NDI	XII	04 15 58 59.5	35.50N	81.49E	33			
NEIC	XII	04 15 58 59.5	35.54N	81.49E	33			
BJI	XII	04 15 59 00.8	35.80N	81.61E	7	3.8L,4.4b		
EIDC	Error ellipse is semi−major=27.1km semi−minor=17.1km azimuth=42							
NEIC	Single network solution.							
BJI	Ms4.4							
ISC	**XII**	**05 20 47 06**±1.9	**35.8N**±.17	**81.2E**±.23	**33**	4.2b	**7**	**5-45**
BJI	XII	05 20 47 04.8	35.89N	81.01E	13	4.1L		¶97xii1087
NDI	XII	05 20 47 07.8	30.69N	83.69E	33	3.5L		
EIDC	XII	05 20 47 26.3±2.55	37.0N	77.6E	0	4.1b,4.2L		
EIDC	Error ellipse is semi−major=60.5km semi−minor=21.2km azimuth=131							
BJI	**XII**	**09 13 16 10.1**	**39.97N**	**77.13E**	**52**	**3.7L**		**¶97xii2172**
BJI	**XII**	**12 00 05 57.1**	**39.56N**	**76.92E**	**25**	**3.3L**		**¶97xii2662**
BJI	**XII**	**12 01 32 47.1**	**39.21N**	**77.08E**	**16**	**3.5L**		**¶97xii2680**
ISC	**XII**	**13 09 35 49**±2.8	**39.3N**±.14	**76.6E**±.27	**21**±25	**3.7b**	**21**	**1-78**
BJI	XII	13 09 35 46.5	39.79N	76.90E	24	3.5L		¶97xii2925
EIDC	XII	13 09 36 10.5±6.32	38.8N	75.3E	226±63.7	3.3b		
EIDC	Error ellipse is semi−major=27.4km semi−minor=22.3km azimuth=28							
ISC	**XII**	**14 02 06 28**±1.7	**39.41N**±.093	**82.0E**±.21	**78**±25	**3.6b**	**14**	**5-78**
BJI	XII	14 02 06 26.2	39.79N	81.73E	28	3.7L		¶97xii3062
NEIC	XII	14 02 06 27.4	39.93N	81.30E	33	3.4b		
EIDC	XII	14 02 06 34.5±5.72	39.8N	81.2E	86±55.9	3.5b,4.8L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=39.3km semi−minor=25.3km azimuth=55LO CONF Location							
ISC	**XII**	**15 15 22 29**±1.7	**39.01N**±.080	**76.9E**±.10	**43**±18	**3.7b**	**29**	**1-82**
BJI	XII	15 15 22 27.3	39.77N	76.52E	70	3.7b		¶97xii3301
NDI	XII	15 15 22 34.6	38.92N	76.77E	100	3.8b		
NEIC	XII	15 15 22 34.6	38.93N	76.78E	100	3.8b		
EIDC	XII	15 15 22 38.5±3.62	38.9N	76.7E	128±35.3	3.4b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=28.4km semi−minor=18.4km azimuth=65							
BJI	**XII**	**16 16 32 58.5**	**39.74N**	**77.37E**	**10**	**3.4L**		**¶97xii3477**
BJI	**XII**	**17 06 30 10.5**	**38.73N**	**77.13E**	**2**	**3.2L**		**¶97xii3562**
BJI	**XII**	**19 10 21 12.7**	**39.97N**	**76.61E**	**12**	**3.6L**		**¶97xii3935**
BJI	**XII**	**20 04 08 20.0**	**39.43N**	**78.51E**	**6**	**3.4L**		**¶97xii4076**
ISC	**XII**	**25 00 18 39**±1.4	**39.5N**±.14	**77.3E**±.18	**21**	3.2b	**7**	**1-78**
BJI	XII	25 00 18 42.5	39.57N	77.18E	21	3.7L		¶97xii4843
BJI	**XII**	**25 08 41 06.4**	**38.77N**	**76.73E**	**23**	**3.7L**		**¶97xii4900**
EIDC	**XII**	**26 13 58 18.5**	**37.2N**	**91.0E**	**0**	**3.8b,**3.8L		**17-53** ¶97xii5137
EIDC	Origin time error = 18.08Error ellipse is semi−major=433.1km semi−minor=86.8km							

azimuth=107

(322) Gansu Province.

BJI	**VII**	**05 20 52 08.5**	**35.10N**	**106.71E**	**11**	**3.0L**			**¶97vii0789**
BJI	**VIII**	**11 05 39 25.0**	**40.84N**	**97.50E**	**32**	**3.1L**			**¶97viii1509**
ISC	**VIII**	**26 20 50 17**±2.9	**38.66N**±.064	**103.87E**±.095	**20**±25	**3.8b,3.2s**	**15**	**3-68**	
BJI	VIII	26 20 50 13.1	38.74N	103.80E	8	4.4L			**¶97viii3903**
NEIC	VIII	26 20 50 14.8	38.58N	103.76E	10				
EIDC	VIII	26 20 50 15.8	38.6N	103.8E	0	3.6b,3.9L			
NEIC	Single network solution.								
BJI	**IX**	**02 04 50 48.2**	**34.62N**	**104.87E**	**9**	**3.8L**			**¶97ix0222**
BJI	**IX**	**04 17 15 33.3**	**39.51N**	**99.02E**	**15**	**3.5L**			**¶97ix0614**
ISC	**IX**	**08 14 53 59**±1.4	**39.25N**±.060	**100.70E**±.059	**16**±11	**4.5b,3.3s**	**51**	**1-155**	
EIDC	IX	08 14 53 57.9	39.2N	100.6E	0	4.2b,3.3s			**¶97ix1238**
BJI	IX	08 14 53 58.8	39.21N	100.69E	23	4.6L,4.3b			
NEIC	IX	08 14 54 00.8	39.25N	100.68E	33	4.7b			
BJI	Ms4.2								
BJI	**X**	**15 04 25 18.7**	**38.50N**	**103.82E**	**9**	**3.3L**			**¶97x2563**
BJI	**XI**	**11 01 10 06.2**	**36.74N**	**104.44E**	**15**	**3.3L**			**¶97xi1705**
BJI	**XI**	**14 19 14 19.8**	**39.85N**	**99.14E**	**20**	**3.7L,4.5b**			**¶97xi2340**
ISC	**XII**	**18 22 06 09.4**±.88	**35.98N**±.085	**106.71E**±.093	**10**		**6**	**2-6**	
BJI	XII	18 22 06 09.4	35.91N	106.73E	10	3.5L			**¶97xii3841**
BJI	**XII**	**21 01 41 35.7**	**34.18N**	**103.32E**	**5**	**2.9L**			**¶97xii4192**
BJI	**XII**	**21 02 13 29.8**	**34.11N**	**103.25E**	**22**	**3.1L**			**¶97xii4195**
BJI	**XII**	**22 18 31 32.7**	**35.89N**	**106.41E**	**5**	**3.2L**			**¶97xii4466**
BJI	**XII**	**22 19 03 33.1**	**35.94N**	**106.24E**	**5**	**2.9L**			**¶97xii4469**
BJI	**XII**	**24 10 46 31.5**	**33.08N**	**103.60E**	**14**	**3.2L**			**¶97xii4748**

(323) Northern China.

BJI	**VII**	**27 02 37 16.3**	**41.76N**	**106.09E**	**20**	**3.6L**			**¶97vii4048**
BJI	**X**	**12 11 08 23.1**	**41.05N**	**100.33E**	**27**	**3.6L**			**¶97x2027**
ISC	**X**	**21 06 32 34.6**±.19	**41.11N**±.030	**107.26E**±.043	**22**	**4.8b,4.6s**	**155**	**2-147**	
BJI	X	21 06 32 33.2	41.23N	107.24E	22	5.2L,4.8b			**¶97x3619**
NEIC	X	21 06 32 34.7	41.13N	107.21E	24	5.1b,4.5s			
MOS	X	21 06 32 34.9	41.1N	107.5E	33	5.2b,4.8s			
EIDC	X	21 06 32 36.5	41.1N	107.4E	24	4.5b,4.4s			
HRVD	X	21 06 32 36.7±1.0	41.02N±.14	107.42E±.20	24				
BJI	Ms4.9								
NEIC	Mw4.9(HRV)								
NEIC	Some damage in the Urad area.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c21; Half duration: 1δ0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.48±.56; $M_{\theta\theta}$1.79±.38; $M_{\phi\phi}$−0.31±.57; $M_{r\theta}$0.09±1.04; $M_{r\phi}$−0.12±.85; $M_{\theta\phi}$2.18±.61. Principal Axes: T 3.16,Plg0°,Azm148°; N −1.39, Plg62°,Azm58°; P −1.76,Plg28°,Azm238°. Best double couple: $M_0$2.5×10^{16}Nm, NP1: ϕ_S279°,δ71°,λ−21°. NP2:ϕ_S16°,δ71°,λ−159°.								
ISC	**X**	**26 03 35 47**±2.3	**41.17N**±.073	**107.6E**±.11	**2**±16	**4.0b**	**16**	**2-69**	
BJI	X	26 03 35 48.5	41.48N	107.15E	15	4.2L,3.7s			**¶97x4408**
NEIC	X	26 03 35 50.7	41.20N	107.41E	33				
EIDC	X	26 03 35 51.6	41.1N	107.6E	22	3.8b,3.9L			
NEIC	Less reliable solution.								
BJI	**XI**	**14 22 55 59.4**	**39.33N**	**103.94E**	**17**	**3.2L**			**¶97xi2372**
BJI	**XII**	**01 21 36 14.8**	**39.76N**	**106.81E**	**16**	**2.8L**			**¶97xii0150**

(324) Kashmir-Xinjiang border region.

ISC	**X**	**18 04 00 50**±1.4	**36.46N**±.087	**77.9E**±.12	**60**±17	**3.8b**	**16**	**3-48**	
BJI	X	18 04 00 41.2	35.88N	77.61E	20	4.3L			**¶97x3099**
NEIC	X	18 04 00 48.9	36.60N	77.82E	33				
EIDC	X	18 04 00 51.2	36.6N	77.7E	39	3.7b,4.5L			
NEIC	Single network solution.								
ISC	**X**	**23 16 53 36.5**±.76	**36.22N**±.050	**77.83E**±.057	**98**±8.8	**4.3b**	**49**	**4-81**	
BJI	X	23 16 53 35.1	36.16N	77.78E	87	4.2b			**¶97x4031**
NEIC	X	23 16 53 35.2	36.22N	77.82E	86	4.5b			
EIDC	X	23 16 53 37.2	36.2N	77.9E	90	3.9b			
ISC	**XI**	**04 05 54 39**±3.5	**36.6N**±.27	**76.8E**±.49	**120**±48	**3.8b**	**8**	**4-73**	
EIDC	XI	04 05 54 24.7	36.5N	77.2E	0	4.0b			**¶97xi0583**
NDI	XI	04 05 54 51.6	35.76N	75.63E	33	3.0L			

(325) Qinghai Province.

ISC	**VII**	**04 17 05 58**±1.6	**38.21N**±.090	**99.9E**±.15	**47**±15	**3.5b**	**15**	**1-80**	
NEIC	VII	04 17 05 56.5	38.16N	99.76E	33				**¶97vii0596**
BJI	VII	04 17 05 59.7	38.32N	99.93E	31	4.1L,3.9b			
EIDC	VII	04 17 06 03.4	38.1N	100.0E	83	3.3b,3.7L			
NEIC	Less reliable solution.								
BJI	Ms3.6								
BJI	**VII**	**05 16 41 26.9**	**35.90N**	**92.56E**	**5**	**4.3b,3.8s**			**¶97vii0751**
ISC	**VII**	**13 19 39 19**±1.4	**36.91N**±.072	**95.36E**±.070	**32**±13	**4.2b,**3.1s	**50**	**4-155**	
BJI	VII	13 19 39 18.4	37.03N	95.35E	23	4.5L,4.4b			**¶97vii2014**
NEIC	VII	13 19 39 18.9	36.92N	95.38E	33	4.6b			
EIDC	VII	13 19 39 22.7	37.0N	95.4E	51	3.8b,3.8L			
BJI	Ms4.0								
ISC	**VII**	**14 09 43 43.1**±.24	**36.95N**±.046	**95.34E**±.046	**14**	**4.7b,3.8s**	**88**	**7-97**	
BJI	VII	14 09 43 41.4	37.01N	95.41E	12	5.1L,4.5b			**¶97vii2096**
NEIC	VII	14 09 43 43.0	36.94N	95.32E	14	4.8b			
EIDC	VII	14 09 43 44.3	36.9N	95.4E	13	4.4b,3.5s			
BJI	Ms4.5								
ISC	**VII**	**15 04 39 23.0**±.24	**36.90N**±.044	**95.30E**±.043	**15**	**4.7b,4.0s**	**86**	**4-127**	
BJI	VII	15 04 39 22.2	36.95N	95.41E	14	4.4L,4.6b			**¶97vii2254**
NEIC	VII	15 04 39 23.0	36.90N	95.27E	15	4.8b			
EIDC	VII	15 04 39 24.4	36.9N	95.3E	14	4.3b,3.8s			
BJI	Ms4.4								
BJI	**VII**	**16 18 33 37.7**	**37.93N**	**101.93E**	**25**	**3.3L**			**¶97vii2476**
ISC	**VIII**	**19 16 21 34**±1.8	**36.09N**±.089	**94.1E**±.14	**66**±19	**3.5b**	**12**	**6-75**	
EIDC	VIII	19 16 21 27.9	36.0N	94.1E	0	3.7b,2.9s			**¶97viii2835**
NEIC	VIII	19 16 21 30.6	36.05N	93.97E	33				
BJI	VIII	19 16 21 31.2	36.15N	93.97E	32				
NEIC	Single network solution.								
ISC	**VIII**	**19 16 57 40**±1.1	**35.8N**±.13	**93.4E**±.34	**0**	**3.7b**	**5**	**18-75**	
EIDC	VIII	19 16 57 42.3	35.7N	93.5E	0	3.7b,3.5L			**¶97viii2839**
BJI	**IX**	**05 07 48 09.4**	**35.29N**	**102.52E**	**5**	**3.0L**			**¶97ix0712**
BJI	**IX**	**18 06 08 33.3**	**34.48N**	**100.53E**	**9**	**3.7L,3.7s**			**¶97ix2621**
ISC	**IX**	**21 02 10 32.2**±.66	**38.71N**±.078	**98.1E**±.10	**1**	**3.8b,3.1s**	**14**	**1-74**	
NEIC	IX	21 02 10 33.2	38.65N	98.29E	10	4.2b			**¶97ix3031**
BJI	IX	21 02 10 33.3	38.88N	98.20E	1	4.1L,3.9s			
EIDC	IX	21 02 10 34.4	38.7N	98.1E	0	3.8b,3.4s			
NEIC	Less reliable solution.								
ISC	**X**	**05 04 40 07.8**±.68	**37.07N**±.094	**95.6E**±.13	**10**	**4.0b**	**12**	**4-77**	
BJI	X	05 04 40 02.4	36.33N	95.29E	7	4.1L,3.5s			**¶97x0798**
NEIC	X	05 04 40 07.8	36.99N	95.40E	10	4.2b			
EIDC	X	05 04 40 08.1	37.0N	95.4E	0	3.8b,4.4L			
NEIC	Less reliable solution.								
ISC	**X**	**12 17 51 24**±1.7	**35.13N**±.094	**99.2E**±.12	**33**±19	**3.7b,**3.0s	**17**	**4-68**	
EIDC	X	12 17 51 20.5	35.1N	99.2E	0	3.7b,3.0s			**¶97x2079**
BJI	X	12 17 51 21.4	35.43N	99.02E	20	4.1L,4.7b			
NEIC	X	12 17 51 23.5	35.14N	99.10E	33				
BJI	Ms4.0								
NEIC	Single network solution.								
ISC	**X**	**18 14 41 06**±4.6	**37.2N**±.24	**95.3E**±.27	**68**±36	**3.6b**	**8**	**4-71**	
BJI	X	18 14 41 10.7	37.87N	95.43E	15	3.7L			**¶97x3179**
EIDC	X	18 14 41 18.7	37.3N	95.4E	163	3.3b			
ISC	**X**	**18 15 33 25.8**±.92	**37.0N**±.11	**95.1E**±.15	**26**	**4.0b**	**10**	**4-68**	
EIDC	X	18 15 33 24.0	37.1N	95.3E	0	4.0b			**¶97x3187**
BJI	X	18 15 33 26.4	37.04N	95.00E	26	4.1L			
NEIC	X	18 15 33 26.6	37.04N	95.30E	33				
NEIC	Less reliable solution.								
BJI	**XI**	**05 19 06 51.9**	**36.42N**	**101.37E**	**6**	**3.4L**			**¶97xi0848**
ISC	**XI**	**28 00 54 01.2**±.97	**36.9N**±.11	**92.0E**±.45	**33**	**3.4b,**4.0s	**7**	**7-72**	
EIDC	XI	28 00 53 53.0	35.9N	89.3E	0	3.8s,3.5b			**¶97xi4979**
BJI	XI	28 00 54 02.0	28.15N	83.10E	25	4.5s			
ISC	**XI**	**29 21 59 37.0**±.75	**33.9N**±.14	**90.3E**±.18	**15**	**3.8b**	**9**	**4-81**	
BJI	XI	29 21 59 33.2	33.98N	89.88E	15	3.1L,3.8b			**¶97xi5328**
EIDC	XI	29 21 59 36.0	34.0N	90.5E	0	3.7b,3.5L			
NEIC	XI	29 21 59 39.3	33.91N	90.32E	33				
NEIC	Less reliable solution.								
ISC	**XII**	**01 02 04 10**±4.8	**37.0N**±.12	**94.8E**±.30	**43**±46	**3.8b**	**7**	**7-71**	
EIDC	XII	01 02 04 13.7±6.94	37.0N	94.9E	54±64.8	3.6b,3.6L			**¶97xii0012**
EIDC	Error ellipse is semi−major=40.9km semi−minor=24.8km azimuth=74								
ISC	**XII**	**01 02 17 30**±1.1	**36.5N**±.13	**95.0E**±.15	**0**	**3.8b**	**6**	**7-70**	
EIDC	XII	01 02 17 31.6±1.33	36.4N	95.0E	0	3.8b,4.2L			**¶97xii0013**
EIDC	Error ellipse is semi−major=38.8km semi−minor=24.9km azimuth=68								
ISC	**XII**	**02 15 16 43**±1.9	**34.11N**±.097	**90.4E**±.14	**69**±22	**3.7b**	**13**	**4-81**	
NDI	XII	02 15 16 39.3	34.12N	90.46E	33				**¶97xii0270**
NEIC	XII	02 15 16 39.3	34.13N	90.46E	33				
BJI	XII	02 15 16 39.5	33.88N	90.56E	26	3.3L,4.3b			
EIDC	XII	02 15 16 42.3±3.94	34.0N	90.4E	44±40.0	3.6b,4.0L			
NEIC	Less reliable solution.								
BJI	Ms3.7								
EIDC	Error ellipse is semi−major=29.6km semi−minor=16.7km azimuth=74								
ISC	**XII**	**06 04 53 00.7**±.44	**35.52N**±.062	**99.30E**±.073	**32**	**4.3b,**3.4s	**34**	**4-145**	
EIDC	XII	06 04 52 58.3±1.03	35.6N	99.2E	0	4.2b,3.4s			**¶97xii1253**
BJI	XII	06 04 52 59.6	35.62N	99.40E	32	4.4L,4.8b			
NEIC	XII	06 04 53 01.0	35.58N	99.23E	33	4.5b			
EIDC	Error ellipse is semi−major=22.5km semi−minor=19.0km azimuth=4								
BJI	Ms4.3								
NEIC	Less reliable solution.								
BJI	**XII**	**19 12 31 48.7**	**37.65N**	**101.84E**	**14**	**3.0L**			**¶97xii3961**
ISC	**XII**	**21 05 32 34.7**±.92	**32.5N**±.13	**96.2E**±.12	**33**	**3.6b**	**11**	**8-66**	
EIDC	XII	21 05 32 32.0±1.50	32.8N	96.7E	0	3.6b			**¶97xii4220**
EIDC	Error ellipse is semi−major=708.6km semi−minor=20.6km azimuth=54								
ISC	**XII**	**27 13 42 50**±1.2	**32.80N**±.071	**96.12E**±.062	**36**±14	**3.8b**	**30**	**5-82**	
EIDC	XII	27 13 42 46.7±.87	32.9N	96.4E	0	3.8b,3.5L			**¶97xii5299**
BJI	XII	27 13 42 49.3	33.05N	96.21E	18	4.2L,4.3b			
NEIC	XII	27 13 42 49.6	32.86N	96.15E	33	3.5b			
EIDC	Error ellipse is semi−major=40.6km semi−minor=16.7km azimuth=59								
NEIC	Less reliable solution.								

SEISMIC REGION 28.
ALMA-ATA TO LAKE BAIKAL.

(326) Central Russia.

EIDC	**IX**	**07 14 40 12.9**	**51.9N**	**88.3E**	**0**	**3.9b**			**¶97ix1084**
ISC	**XI**	**19 05 15 39**±1.3	**53.4N**±.11	**89.8E**±.13	**32**±14	**3.9b,**3.8s	**21**	**2-83**	
EIDC	XI	19 05 15 34.7	53.1N	89.7E	0	4.0b,4.3L			**¶97xi3139**
NEIC	XI	19 05 15 37.9	53.26N	89.83E	33	4.5b			
MOS	XI	19 05 15 39.0	53.2N	89.8E	44	4.8b			
BJI	XI	19 05 15 40.6	53.60N	90.08E	45	4.1b			
NEIC	Less reliable solution.								
EIDC	**XII**	**02 11 56 13.2**±2.28	**58.7N**	**89.4E**	**0**	**4.0b**		**37-87**	
									¶97xii0236
EIDC	Error ellipse is semi−major=222.9km semi−minor=32.6km azimuth=37LO CONF Location								
EIDC	**XII**	**26 09 20 50.1**±6.34	**52.2N**	**84.1E**	**0**	3.6b,2.7L		**2-39**	
									¶97xii5095
EIDC	Error ellipse is semi−major=115.8km semi−minor=19.7km azimuth=120								

(327) Lake Baikal region.

ISC	**VII**	**12 13 39 08**±4.7	**54.78N**±.070	**111.5E**±.13	**4**±30	**4.0b,**4.4s	**27**	**5-87**	
NEIC	VII	12 13 39 08.1	54.74N	111.40E	10	4.3b			**¶97vii1823**
EIDC	VII	12 13 39 08.4	54.8N	111.3E	0	3.9b,3.9L			
BJI	VII	12 13 39 08.5	54.79N	111.39E	12	4.9L,4.1s			
MOS	VII	12 13 39 08.7	55.0N	111.7E	10	4.4s			
MOS	Felt I=III MSK at Uluhan.								
EIDC	**X**	**04 11 06 27.6**	**52.6N**	**107.3E**	**0**	**3.9L,**3.9b			**¶97x0633**
MOS	**XI**	**16 02 56 23.6**	**56.2N**	**111.9E**	**31**	**4.7b,4.1s**			**¶97xi2585**
NEIC	XI	16 02 56 18.6	55.97N	111.16E	10	4.5b			
EIDC	XI	16 02 56 18.8	56.0N	111.0E	0	3.8b,4.2L			
BJI	XI	16 02 56 22.5	56.19N	111.78E	13	4.3b,4.6s			
MOS	Felt I=II−III MSK at Novyj Uoyan.								
NEIC	Less reliable solution.								
ISC	**XII**	**09 05 00 38**±1.4	**51.8N**±.26	**103.6E**±.28	**33**	**3.8b**	**5**	**12-80**	
EIDC	XII	09 05 00 34.6±1.48	51.7N	103.3E	0	4.0b,4.1L			**¶97xii2106**
EIDC	Error ellipse is semi−major=50.8km semi−minor=29.8km azimuth=65								

(328) East of Lake Baikal.

ISC	**VIII**	**21 10 42 38.1**±.90	**56.37N**±.088	**115.8E**±.29	**10**	**3.6b**	**8**	**4-49**	
NEIC	VIII	21 10 42 37.8	56.37N	115.76E	10				**¶97viii3085**
EIDC	VIII	21 10 42 38.7	56.4N	115.8E	0	4.0L,4.2b			
NEIC	Single network solution.								
EIDC	**X**	**26 03 16 05.3**	**55.6N**	**119.4E**	**0**	3.5b,4.1L			**¶97x4407**
ISC	**XII**	**21 07 01 24**±4.6	**56.61N**±.064	**117.2E**±.11	**10**±28	**4.0b,3.5s**	**50**	**4-91**	
EIDC	XII	21 07 01 24.4±.65	56.6N	117.4E	0	3.9b,3.4s			**¶97xii4226**
MOS	XII	21 07 01 26.4	56.4N	117.5E	33	4.7b			
NEIC	XII	21 07 01 27.4	56.58N	117.13E	33	4.6b			
BJI	XII	21 07 01 28.5	55.87N	117.33E	18	3.9b,4.3s			
EIDC	Error ellipse is semi−major=20.2km semi−minor=15.4km azimuth=63								

Agency		Origin Time mo d h m s		φ °		λ °		h km	Mag	n	Δ-Rng °

(329) Eastern Kazakhstan.

ISC	**VIII**	**03 08 07 14**±4.4	**48.9N**±.54	**79.4E**±.31	**33**	**3.6b**	**6**	**6-61**
EIDC	VIII	03 08 07 10.9	48.6N	78.9E	0	4.0b,4.6L	**¶97viii0332**	
ISC	**VIII**	**29 20 27 09**±2.5	**48.5N**±.29	**84.8E**±.22	**0**	**3.6b**	**8**	**5-60**
EIDC	VIII	29 20 27 08.6	48.1N	84.7E	0	3.7b,3.9L	**¶97viii4376**	
ISC	**X**	**20 10 21 47.7**±.97	**44.88N**±.058	**79.81E**±.073	**36**±11	**4.0b**,3.9s	**34**	**3-84**
EIDC	X	20 10 21 43.3	44.7N	79.8E	0	4.1b,4.5L	**¶97x3479**	
NEIC	X	20 10 21 46.7	44.87N	79.90E	33	4.1b		
MOS	X	20 10 21 47.6	44.9N	79.8E	33	4.6b		
BJI	X	20 10 21 50.0	44.48N	80.36E	25	4.7L,4.4b		
NEIC	Less reliable solution.							
MOS	Felt I=II MSK at Alma−Ata.							
BJI	Ms4.1							

(330) Alma-Ata region.

ISC	**VII**	**09 16 24 58.4**±.92	**43.29N**±.064	**78.50E**±.080	**53**±11	**3.8b**	**23**	**1-84**
NEIC	VII	09 16 24 55.3	43.13N	78.42E	33	4.1b	**¶97vii1365**	
EIDC	VII	09 16 24 55.7	42.9N	78.3E	18	3.8b,4.5L		
BJI	VII	09 16 24 56.9	42.89N	78.78E	16	3.9L,4.0b		
MOS	VII	09 16 24 58.5	43.5N	78.4E	33	4.4b		
NEIC	Less reliable solution.							
BJI	Ms3.4							
ISC	**VIII**	**15 18 59 25.1**±.63	**43.4N**±.10	**78.2E**±.12	**10**	**3.9b**	**23**	**4-84**
BJI	VIII	15 18 59 19.1	43.35N	77.98E	9	4.6L,4.3b	**¶97viii2256**	
NEIC	VIII	15 18 59 25.5	43.42N	77.97E	10	3.9b		
EIDC	VIII	15 18 59 26.1	43.2N	77.9E	0	3.8b,4.8L		
BJI	Ms4.5							
NEIC	Less reliable solution.							
BJI	**XI**	**06 22 09 01.2**	**42.99N**	**78.41E**	**19**	**3.2L**	**¶97xi1042**	
ISC	**XII**	**27 04 21 00.8**±.21	**42.14N**±.027	**78.36E**±.046	**33**	**4.4b,4.1s**	**101**	**1-96**
BJI	XII	27 04 21 00.7	42.25N	78.54E	18	4.7L,4.6b	**¶97xii5242**	
MOS	XII	27 04 21 01.6	42.3N	78.4E	33	4.8b,4.4s		
NEIC	XII	27 04 21 01.6	42.28N	78.33E	33	4.6b,4.0s		
NDI	XII	27 04 21 07.5	41.73N	78.38E	96	5.2b		
EIDC	XII	27 04 21 09.2±.60	42.2N	78.3E	90±4.9	4.0b,3.9s		
BJI	Ms4.4							
MOS	Felt I=II MSK at Alma−Ata.							
EIDC	Error ellipse is semi−major=18.2km semi−minor=11.5km azimuth=52							

(331) Kazakhstan-Xinjiang border region.

ISC	**IX**	**18 14 31 37**±1.6	**49.82N**±.036	**86.11E**±.050	**17**±12	**4.8b,4.0s**	**152**	**3-161**
MOS	IX	18 14 31 38.2	49.8N	86.3E	33	5.2b,4.0s	**¶97ix2673**	
NEIC	IX	18 14 31 38.6	49.84N	86.15E	33	4.9b,4.1s		
BJI	IX	18 14 31 40.3	49.46N	86.48E	24	4.7L,4.4b		
EIDC	IX	18 14 31 45.5	49.9N	86.2E	81	4.2b,3.7s		
MOS	Felt I=II MSK at Leninogorsk,Ust−Kamenogorsk,Zyryanovsk.							
BJI	Ms4.6							
ISC	**XI**	**06 02 49 21**±1.8	**47.79N**±.043	**82.04E**±.070	**28**±14	**4.3b,3.5s**	**57**	**6-89**
EIDC	XI	06 02 49 18.0	47.8N	82.1E	0	4.2b,3.4s	**¶97xi0910**	
BJI	XI	06 02 49 20.7	47.66N	82.19E	23	4.5L,4.4b		
NEIC	XI	06 02 49 21.2	47.80N	82.07E	33	4.7b		
MOS	XI	06 02 49 21.3	47.8N	82.0E	33	4.9b		
BJI	Ms4.6							
BJI	**XI**	**23 14 07 15.8**	**43.09N**	**80.03E**	**5**	**3.7L**	**¶97xi4129**	
ISC	**XII**	**13 17 04 34**±2.0	**46.3N**±.11	**84.1E**±.17	**81**±21	**3.5b**	**13**	**4-83**
BJI	XII	13 17 04 20.7	46.43N	83.61E	5	4.0L	**¶97xii2980**	
EIDC	XII	13 17 04 26.0±.83	46.1N	84.2E	0	3.6b,4.2L		
NEIC	XII	13 17 04 28.9	46.26N	84.24E	33			
EIDC	Error ellipse is semi−major=25.0km semi−minor=17.2km azimuth=58							
NEIC	Single network solution.							

(332) Northern Xinjiang Province.

ISC	**VII**	**02 22 28 05**±2.4	**43.6N**±.10	**89.8E**±.17	**34**±22	**3.7b**,3.2s	**16**	**2-78**
EIDC	VII	02 22 28 02.3	43.6N	89.8E	0	3.8b,3.1s	**¶97vii0310**	
NEIC	VII	02 22 28 05.4	43.61N	89.86E	33			
BJI	VII	02 22 28 09.8	43.21N	89.33E	33	3.7L		
NEIC	Single network solution.							
ISC	**VII**	**30 19 11 21**±1.3	**43.4N**±.11	**88.84E**±.089	**43**±15	**3.7b**	**16**	**1-72**
BJI	VII	30 19 11 19.3	43.10N	88.80E	12	4.3L,4.7b	**¶97vii4625**	
NEIC	VII	30 19 11 19.6	43.45N	88.85E	33			
EIDC	VII	30 19 11 21.1	43.4N	88.7E	31	3.6b		
NEIC	Single network solution.							
ISC	**VIII**	**17 09 18 22**±2.0	**45.6N**±.25	**85.5E**±.23	**33**	**3.6b**	**6**	**8-63**
EIDC	VIII	17 09 18 16.6	45.1N	85.4E	0	3.7b,4.2L	**¶97viii2515**	
ISC	**IX**	**19 09 09 09.8**±.55	**42.07N**±.076	**83.6E**±.11	**25**	**3.8b**	**21**	**3-144**
BJI	IX	19 09 09 10.4	42.02N	83.91E	25	4.1L	**¶97ix2767**	
EIDC	IX	19 09 09 10.7	42.3N	84.0E	19	3.8b		
NEIC	IX	19 09 09 11.4	42.40N	84.24E	33	4.4b		
NEIC	Less reliable solution.							
ISC	**IX**	**28 14 57 16**±1.5	**42.0N**±.10	**84.0E**±.10	**54**±15	**3.6b**	**17**	**3-80**
NEIC	IX	28 14 57 10.1	42.13N	84.14E	10	4.3b	**¶97ix4672**	
EIDC	IX	28 14 57 10.4	42.0N	84.0E	0	3.6b,4.0L		
BJI	IX	28 14 57 13.6	41.93N	84.09E	20	3.8L		
NEIC	Single network solution.							
BJI	**X**	**23 21 14 16.3**	**42.04N**	**89.86E**	**14**	**3.6L**	**¶97x4066**	
ISC	**X**	**26 12 02 01**±1.6	**44.14N**±.082	**82.81E**±.090	**41**±17	**4.1b**	**31**	**4-93**
NEIC	X	26 12 01 58.5	44.17N	82.82E	20	4.3b	**¶97x4456**	
BJI	X	26 12 02 00.0	44.05N	83.02E	20	4.0L		
EIDC	X	26 12 02 00.3	44.1N	82.9E	19	3.9b,4.5L		
ISC	**X**	**30 08 26 37**±3.0	**43.92N**±.067	**83.67E**±.078	**11**±20	**4.1b**	**28**	**3-84**
EIDC	X	30 08 26 37.1	43.9N	83.7E	0	4.1b,4.5L	**¶97x5014**	
NEIC	X	30 08 26 39.9	43.91N	83.69E	33	4.2b		
BJI	X	30 08 26 41.5	43.83N	83.21E	15	4.0L,4.0b		
ISC	**XII**	**10 21 08 17.9**±.56	**43.5N**±.10	**89.7E**±.12	**12**	**3.8b**	**21**	**2-78**
BJI	XII	10 21 08 17.7	43.53N	89.72E	12	4.2L,4.5b	**¶97xii2424**	
NEIC	XII	10 21 08 18.2	43.53N	89.75E	16	4.5b		
EIDC	XII	10 21 08 19.2±.62	43.4N	89.6E	14±3.5	3.5b		
BJI	Ms4.1							
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=19.6km semi−minor=12.6km azimuth=48							
BJI	**XII**	**16 14 12 01.0**	**43.10N**	**86.86E**	**24**	**3.3L**	**¶97xii3459**	
ISC	**XII**	**20 11 08 30.0**±.19	**42.86N**±.025	**83.93E**±.043	**33**	**4.7b,4.0s**	**151**	**3-144**
EIDC	XII	20 11 08 27.0±.60	43.0N	84.1E	0	4.5b,3.7s	**¶97xii4110**	
NDI	XII	20 11 08 29	42.80N	84.39E	33	4.5b		
MOS	XII	20 11 08 29.8	43.0N	84.3E	33	5.2b,4.3s		
NEIC	XII	20 11 08 29.9	42.96N	84.03E	33	5.0b		
BJI	XII	20 11 08 30.0	42.96N	84.09E	26	5.3L,4.3b		
EIDC	Error ellipse is semi−major=16.9km semi−minor=13.8km azimuth=42							
BJI	Ms4.2							
BJI	**XII**	**22 05 03 02.4**	**42.17N**	**82.30E**	**11**	**3.6L**	**¶97xii4354**	
EIDC	XII	22 05 03 23.9±5.61	47.5N	83.5E	0	3.4b		
EIDC	Error ellipse is semi−major=101.5km semi−minor=42.7km azimuth=178							
BJI	**XII**	**24 22 02 18.4**	**44.29N**	**90.26E**	**13**	**3.8L**	**¶97xii4832**	

(333) USSR-Mongolia border region.

ISC	**XI**	**24 23 13 30**±1.9	**49.05N**±.046	**89.60E**±.062	**32**±14	**4.4b,4.1s**	**75**	**5-93**
EIDC	XI	24 23 13 26.4	48.9N	89.6E	0	4.2b,3.9L	**¶97xi4403**	
NEIC	XI	24 23 13 26.7	49.00N	89.52E	10	4.7b		
BJI	XI	24 23 13 27.0	49.08N	89.54E	14	4.9L,4.3b		
MOS	XI	24 23 13 28.8	49.1N	89.6E	20	5.0b		
BJI	Ms4.3							
ISC	**XII**	**02 17 01 04.2**±.65	**50.3N**±.10	**93.6E**±.15	**33**	**3.7b**	**14**	**7-82**
EIDC	XII	02 17 01 00.6±.82	50.0N	93.4E	0	3.8b,3.4L	**¶97xii0285**	
BJI	XII	02 17 01 02.3	50.10N	93.80E	33	4.6b,4.0s		
NEIC	XII	02 17 01 02.3	50.06N	93.76E	33	3.9b		
EIDC	Error ellipse is semi−major=26.3km semi−minor=16.0km azimuth=51							
NEIC	Less reliable solution.							

(334) Mongolia.

EIDC	**VII**	**25 03 15 38.0**	**47.2N**	**117.6E**	**0**	3.9b,2.8L		**2-72**
							¶97vii3763	
BJI	**VIII**	**05 19 53 25.2**	**44.18N**	**101.05E**	**21**	**4.1L,3.5s**	**¶97viii0704**	
ISC	**IX**	**06 14 42 00**±4.3	**47.5N**±.14	**103.5E**±.24	**28**±36	**3.3b**	**8**	**2-76**
NEIC	IX	06 14 41 57.6	47.50N	103.43E	10		**¶97ix0931**	
EIDC	IX	06 14 41 59.0	47.4N	103.6E	0	3.5b,3.4L		
BJI	IX	06 14 42 07.1	46.77N	103.99E	19	4.5L,4.1b		
NEIC	Single network solution.							
ISC	**XI**	**24 20 56 17**±1.9	**44.2N**±.36	**101.2E**±.18	**10**	**3.5b**	**6**	**5-74**
EIDC	XI	24 20 56 11.5	44.8N	100.2E	0	3.5b,3.2s	**¶97xi4386**	
BJI	XI	24 20 56 18.1	43.47N	100.86E	10	3.5L		
ISC	**XII**	**20 01 07 23.1**±.97	**43.18N**±.038	**99.95E**±.057	**62**±9.9	**4.5b**	**83**	**4-90**
MOS	XII	20 01 07 19.7	43.4N	100.3E	33	5.0b	**¶97xii4063**	
BJI	XII	20 01 07 23.1	42.95N	100.02E	94	4.5b		
NEIC	XII	20 01 07 27.1	43.26N	100.02E	100	4.7b		
EIDC	XII	20 01 07 28.2±4.26	43.1N	100.0E	94±40.5	4.0b		
EIDC	Error ellipse is semi−major=17.6km semi−minor=13.0km azimuth=58							

SEISMIC REGION 29. WESTERN ASIA.

(337) Eastern Caucasus.

ISC	**VII**	**08 06 11 21**±1.2	**40.76N**±.075	**48.6E**±.10	**83**±12	**3.9b**	**26**	**2-76**
EIDC	VII	08 06 11 12.9	40.7N	48.6E	0	4.0b	**¶97vii1145**	
BJI	VII	08 06 11 13.5	41.57N	47.60E	43	4.8b		
MOS	VII	08 06 11 15.6	40.6N	48.6E	33	4.7b		
NEIC	VII	08 06 11 15.6	40.64N	48.61E	33	4.3b		
ISC	**VII**	**12 22 02 13.7**±.98	**43.1N**±.13	**46.02E**±.090	**58**±12	**3.5b**	**16**	**1-45**
EIDC	VII	12 22 02 07.1	42.9N	46.3E	0	3.5b,3.7L	**¶97vii1873**	
NEIC	VII	12 22 02 10.4	42.86N	46.24E	33	3.3b		
MOS	VII	12 22 02 10.5	42.9N	46.2E	33	4.0b		
NEIC	Less reliable solution.							
ISC	**VII**	**15 13 58 42.4**±.93	**40.56N**±.067	**48.81E**±.078	**93**±10	**3.9b**	**32**	**3-76**
EIDC	VII	15 13 58 32.2	40.5N	49.1E	0	4.0b,3.0L	**¶97vii2313**	
NEIC	VII	15 13 58 36.1	40.66N	48.89E	33	4.0b		
MOS	VII	15 13 58 36.9	40.4N	49.0E	33	4.8b		
BJI	VII	15 13 58 37.0	40.68N	48.70E	41	4.6b		
NEIC	Less reliable solution.							
ISC	**VII**	**18 07 33 54**±2.2	**41.10N**±.067	**45.11E**±.054	**3**±14	**4.2b**,3.4s	**56**	**3-75**
EIDC	VII	18 07 33 53.8	41.0N	45.2E	0	4.1b,3.8s	**¶97vii2707**	
BJI	VII	18 07 33 57.4	41.10N	45.10E	33	4.5b		
NEIC	VII	18 07 33 57.4	41.10N	45.14E	33	4.2b		
MOS	VII	18 07 33 58.2	41.1N	45.1E	33	4.5b		
NEIC	About 5,000 houses damaged in the Noyemberyan area, Armenia. Felt I=III MM at Tbilisi, Georgia.							
ISC	**VIII**	**02 11 42 17**±6.2	**40.8N**±.12	**48.2E**±.85	**41**±39	**3.9b**,2.9s	**7**	**3-44**
EIDC	VIII	02 11 42 11.8	40.8N	48.6E	0	3.9b,2.9s	**¶97viii0208**	
ISC	**X**	**03 21 55 07**±1.7	**40.68N**±.094	**48.6E**±.21	**68**±12	**3.6b**	**15**	**1-45**
MOS	X	03 21 54 52.8	39.8N	49.8E	33	4.7b	**¶97x0530**	
EIDC	X	03 21 55 00.2	40.7N	48.8E	0	3.9b,3.6L		
NEIC	X	03 21 55 02.7	40.66N	48.87E	33	4.5b		
NEIC	Less reliable solution.							
ISC	**X**	**09 18 28 59.2**±.78	**41.25N**±.078	**48.3E**±.12	**77**±8.8	**3.8b**	**22**	**1-60**
NEIC	X	09 18 28 57.9	41.20N	48.28E	66	4.0b	**¶97x1621**	
EIDC	X	09 18 28 59.8	41.2N	48.2E	68	3.6b		
MOS	X	09 18 29 02.5	41.4N	48.7E	33	4.0b		
NEIC	Less reliable solution.							
ISC	**X**	**19 07 51 04**±1.5	**40.8N**±.11	**48.8E**±.22	**33**	**4.0b**	**13**	**1-45**
EIDC	X	19 07 50 57.6	40.4N	49.3E	0	4.1b,4.2L	**¶97x3310**	
MOS	X	19 07 51 01.4	40.6N	49.0E	33	4.4b		
NEIC	X	19 07 51 01.4	40.56N	48.96E	33	4.3b		
NEIC	Less reliable solution.							
ISC	**XI**	**27 17 34 30**±1.1	**41.86N**±.027	**45.37E**±.027	**30**±8.4	**5.1b,5.2s**	**399**	**2-118**
EIDC	XI	27 17 34 26.0	41.7N	45.2E	0	4.8b,5.1s	**¶97xi4908**	
MOS	XI	27 17 34 28.1	42.0N	45.3E	10	5.7b,5.0s		
NEIC	XI	27 17 34 30.3	41.85N	45.33E	38	5.3b,5.2s		
BJI	XI	27 17 34 30.8	42.24N	45.43E	33	5.1b,5.4s		
HRVD	XI	27 17 34 36.9±.7	42.32N±.05	45.19E±.11	42±6.1			
MOS	Felt I=III MSK at Vladikavkaz; I=II−III at Nalchik,Pyatigorsk;I=II at Dagestan, Stavropol.							
NEIC	Mw5.3(HRV), Mw5.0(OBN). Damage I=VI MM.							
NEIC	Some buildings damaged at Tbilisi, Georgia. Felt I=VI MM at Khashmi and V MM at Tbilisi, Georgia. Felt III MM at Nalchik, Pyatigorsk and Vladikavkaz; II MM at Dagestan and Stavropol, Russia. Also felt at Yerevan, Armenia. Mo=3.5×10^{16}Nm (OBN).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c24; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}7.30±.69; $M_{\theta\theta}$−8.57±.75; $M_{\phi\phi}$1.27±1.15; $M_{r\theta}$−2.29±1.63; $M_{r\phi}$−3.08±1.32; $M_{\theta\phi}$−1.18±.83. Principal Axes: T 8.76,Plg68°,Azm105°; N 0.39,Plg20°,Azm257°; P −9.15,Plg10°,Azm351°. Best double couple: $M_0$9.0×10^{16}Nm, NP1: ϕ_S103°,δ39°,λ122°. NP2:ϕ_S244°,δ58°,λ66°.							
ISC	**XII**	**02 15 53 05**±2.4	**40.3N**±.18	**49.1E**±.40	**33**	**3.9b**	**8**	**3-32**
EIDC	XII	02 15 53 17.6	41.9N	47.9E	0	4.0b,4.4L	**¶97xii0276**	
EIDC	Origin time error = 10.65Error ellipse is semi−major=176.0km semi−minor=50.5km azimuth=145							

ISC	**XII**	**04 06 06 18.2**±.66	**41.69N**±.058	**47.89E**±.052	**67**±6.7	**4.3b**	**74**	**1-83**
EIDC	XII	04 06 06 11.4±.61	41.6N	47.9E	0	4.3b,4.3L		¶97xii0563
BJI	XII	04 06 06 17.6	41.98N	47.99E	55	4.8b,4.4s		
NEIC	XII	04 06 06 17.6	41.60N	47.81E	65	4.4b		
MOS	XII	04 06 06 18.5	41.7N	47.9E	72	4.9b		
EIDC	Error ellipse is semi−major=15.2km semi−minor=12.7km azimuth=7							
ISC	**XII**	**11 10 07 15**±1.6	**40.7N**±.16	**48.6E**±.30	**33**	**3.9b**	**11**	**3-76**
EIDC	XII	11 10 07 11.6±1.90	40.7N	48.6E	0	4.0b,4.4L		¶97xii2542
NEIC	XII	11 10 07 14.5	40.67N	48.65E	33	3.9b		
EIDC	Error ellipse is semi−major=51.6km semi−minor=26.2km azimuth=111							
NEIC	Poor solution.							
ISC	**XII**	**17 20 21 13.1**±.86	**40.62N**±.087	**48.91E**±.078	**42**±11	**4.0b**	**28**	**1-84**
EIDC	XII	17 20 21 10.2±1.51	40.8N	48.7E	0	4.1b,4.9L		¶97xii3659
NEIC	XII	17 20 21 13.2	40.79N	48.81E	33	4.3b		
MOS	XII	17 20 21 13.6	40.8N	49.1E	32	4.5b		
EIDC	Error ellipse is semi−major=36.7km semi−minor=17.2km azimuth=9							
NEIC	Less reliable solution.							

(338) Caspian Sea.

ISC	**XI**	**09 05 27 15.6**±.60	**42.05N**±.052	**48.73E**±.044	**89**±6.5	**4.3b**	**92**	**1-98**
NEIC	XI	09 05 27 13.5	42.04N	48.67E	69	4.5b		¶97xi1405
BJI	XI	09 05 27 14.3	41.75N	49.02E	41	5.3b		
MOS	XI	09 05 27 14.6	42.2N	48.8E	83	4.6b		
EIDC	XI	09 05 27 15.8	42.1N	48.7E	70	4.1b,3.1s		

(339) Uzbekistan.

ISC	**VIII**	**07 13 25 45**±1.4	**39.9N**±.24	**63.2E**±.37	**33**	**4.1b**,3.6s	**4**	**36-78**
EIDC	VIII	07 13 25 40.9	39.9N	63.1E	0	4.2b,3.6s		¶97viii0945
ISC	Poorly determined							
ISC	**XI**	**19 22 39 56.3**±.45	**40.23N**±.066	**63.25E**±.068	**33**	**4.1b**	**36**	**4-145**
EIDC	XI	19 22 39 54.4	40.4N	63.4E	0	4.1b,4.3L		¶97xi3325
BJI	XI	19 22 39 55.0	40.16N	62.63E	53			
MOS	XI	19 22 39 55.6	40.1N	63.1E	33	4.6b		
NEIC	XI	19 22 39 56.8	40.37N	63.42E	33	4.3b		
NEIC	Less reliable solution.							

(340) Turkmeniya.

ISC	**VIII**	**24 09 12 17.5**±.84	**38.4N**±.12	**54.1E**±.11	**10**	**3.9b**	**13**	**5-46**
NEIC	VIII	24 09 12 17.7	38.41N	54.07E	10	4.0b		¶97viii3507
EIDC	VIII	24 09 12 17.7	38.3N	54.1E	0	3.9b,4.4L		
NEIC	Less reliable solution.							

(341) Iran-USSR border region.

ISC	**VIII**	**09 17 05 25**±1.3	**36.60N**±.064	**60.39E**±.042	**22**±10	**4.4b,4.2s**	**76**	**1-94**
MOS	VIII	09 17 05 26.7	36.6N	60.4E	40	4.6b,4.2s		¶97viii1290
BJI	VIII	09 17 05 26.7	36.70N	60.71E	22	4.7b,4.4s		
NEIC	VIII	09 17 05 27.1	36.56N	60.41E	43	4.3b		
EIDC	VIII	09 17 05 28.8	36.5N	60.4E	38	4.1b,4.4L		
ISC	**VIII**	**17 15 31 47**±1.5	**38.4N**±.22	**57.6E**±.24	**33**	**3.8b**	**6**	**30-49**
EIDC	VIII	17 15 31 43.7	38.3N	57.6E	0	3.7b		¶97viii2555

(343) Turkey-Iran border region.

ISC	**X**	**02 01 06 36.7**±.78	**38.98N**±.059	**44.27E**±.059	**45**±8.5	**4.2b**	**49**	**1-77**
ISK	X	02 01 06 28.5	38.69N	44.60E	10	4.4D		¶97x0184
EIDC	X	02 01 06 31.6	39.0N	44.0E	0	4.1b,4.2L		
BJI	X	02 01 06 34.3	39.00N	44.20E	33	4.6b		
MOS	X	02 01 06 34.9	38.8N	44.2E	33	5.0b		
NEIC	X	02 01 06 35.3	39.03N	44.24E	33	4.5b		
NEIC	Less reliable solution.							
ISC	**X**	**10 23 35 34**±1.1	**38.5N**±.18	**44.3E**±.10	**7**		**11**	**1-7**
ISK	X	10 23 35 38.0	38.67N	43.91E	7	4.0D		¶97x1813

(344) North-Western Iran-USSR border region.

ISC	**VIII**	**25 02 48 08.0**±.80	**39.23N**±.061	**44.10E**±.056	**50**±8.1	**4.4b,3.4s**	**111**	**1-79**
NEIC	VIII	25 02 48 07.1	39.31N	43.97E	33	4.4b		¶97viii3628
EIDC	VIII	25 02 48 14.0	39.5N	43.7E	64	4.0b,3.6L		
NEIC	Minor damage in the Dogubeyazit area.							
EIDC	**XII**	**13 23 24 50.4**	**39.1N**	**45.3E**	**0**	**3.7b**		**25-38**
								¶97xii3037
EIDC	Origin time error = 22.95Error ellipse is semi−major=413.1km semi−minor=63.2km azimuth=1							

(345) North-Western Iran.

ISC	**VIII**	**24 11 48 18.1**±.92	**37.76N**±.071	**48.94E**±.060	**64**±9.1	**4.2b**	**66**	**2-93**
MOS	VIII	24 11 48 07.5	37.2N	49.2E	10	4.5b		¶97viii3524
BJI	VIII	24 11 48 09.9	37.10N	48.65E	18	4.8b,4.8s		
NEIC	VIII	24 11 48 11.3	37.67N	48.89E	10	4.4b		
EIDC	VIII	24 11 48 12.3	37.8N	48.8E	0	4.2b,3.5s		
NEIC	Less reliable solution.							
NEIC	Felt at Ardebil, Astara and Khalkhal.							
ISC	**X**	**17 21 14 08.4**±.96	**38.3N**±.16	**47.9E**±.13	**33**	**3.8b**	**13**	**1-48**
EIDC	X	17 21 14 16.9	38.6N	48.0E	93	3.6b,3.5s		¶97x3061

(346) Iran-Iraq border region.

ISC	**XI**	**18 06 57 11**±3.8	**32.6N**±.25	**47.5E**±.17	**185**±52	**4.0b**	**14**	**11-50**
NEIC	XI	18 06 56 57.5	33.05N	48.08E	33	4.6b		¶97xi2926
EIDC	XI	18 06 57 10.4	32.6N	47.6E	160	3.6b		
NEIC	Less reliable solution.							
ISC	**XI**	**18 07 14 41**±1.4	**32.8N**±.23	**48.0E**±.13	**33**	**4.2b**	**16**	**5-48**
NEIC	XI	18 07 14 40.6	32.63N	47.90E	33	4.9b		¶97xi2928
EIDC	XI	18 07 14 51.8	32.8N	47.9E	117	3.5b		
NEIC	Poor solution.							
ISC	**XI**	**18 20 36 28**±1.2	**33.6N**±.18	**46.0E**±.21	**33**	**4.1b**	**9**	**1-81**
EIDC	XI	18 20 36 25.3	33.6N	46.0E	0	4.2b		¶97xi3057
NEIC	XI	18 20 36 28.2	33.63N	46.07E	33	4.1b		
NEIC	Poor solution.							

(347) Western Iran.

ISC	**VII**	**10 23 47 39**±1.4	**31.78N**±.075	**49.6E**±.11	**60**±16	**3.7b**	**22**	**3-85**
RYD	VII	10 23 47 35.1	32.09N	49.69E	20	4.2D		¶97vii1591
NEIC	VII	10 23 47 37.2	32.10N	49.72E	33			
EIDC	VII	10 23 47 57.4	32.3N	49.7E	202	3.2b		
NEIC	Single network solution.							
ISC	**VIII**	**21 19 13 17**±1.8	**32.19N**±.088	**48.90E**±.083	**71**±20	**4.0b**	**35**	**3-68**
RYD	VIII	21 19 13 07.9	33.03N	49.78E	28	3.5D		¶97viii3128
NEIC	VIII	21 19 13 14.0	32.41N	48.93E	33	4.5b,4.7s		
EIDC	VIII	21 19 13 18.0	32.4N	48.9E	47	3.7b,3.3s		
RYD	**IX**	**22 22 04 45.2**	**32.6N**	**48.8E**	**50**	**3.6D**		**¶97ix3331**
ISC	**IX**	**24 16 54 37.9**±.85	**31.9N**±.14	**49.4E**±.14	**33**	**3.8b**	**13**	**3-64**
EIDC	IX	24 16 54 34.7	31.9N	49.4E	0	3.8b		¶97ix3604
NEIC	IX	24 16 54 37.6	31.92N	49.43E	33			
NEIC	Less reliable solution.							
ISC	**X**	**27 07 50 27.2**±.85	**30.9N**±.11	**49.7E**±.10	**33**	**4.1b**	**24**	**4-84**
EIDC	X	27 07 50 25.0	31.0N	49.7E	0	4.0b,4.2L		¶97x4585
NEIC	X	27 07 50 27.5	30.95N	49.71E	33	4.4b		
NEIC	Less reliable solution.							
ISC	**XII**	**09 00 37 29**±2.2	**32.4N**±.11	**49.4E**±.10	**60**±19	**4.1b**	**27**	**3-82**
NEIC	XII	09 00 37 26.4	32.34N	49.34E	33	4.5b		¶97xii2055
EIDC	XII	09 00 37 29.3±5.35	32.4N	49.4E	38±49.5	3.8b,4.0L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=19.4km semi−minor=16.6km azimuth=178							

(348) Iran.

ISC	**VII**	**04 16 50 48**±2.0	**33.13N**±.081	**60.01E**±.068	**33**±19	**4.3b,3.8s**	**42**	**7-90**
NEIC	VII	04 16 50 44.0	33.08N	60.10E	10	4.5b		¶97vii0595
EIDC	VII	04 16 50 44.2	33.0N	60.1E	0	4.3b,3.7s		
BJI	VII	04 16 50 44.3	33.41N	60.11E	5	4.8b,4.7s		
ISC	**VII**	**11 01 43 57**±5.4	**31.75N**±.090	**50.4E**±.20	**31**±39	**3.8b**	**12**	**4-65**
NEIC	VII	11 01 43 54.5	31.87N	50.40E	10			¶97vii1609
EIDC	VII	11 01 43 54.7	31.9N	50.4E	0	3.8b		
NEIC	Single network solution.							
ISC	**VII**	**13 22 25 52**±5.6	**33.0N**±.15	**60.2E**±.12	**93**±50	**3.8b**	**21**	**17-90**
NEIC	VII	13 22 25 42.0	32.90N	60.24E	10	4.1b		¶97vii2029
EIDC	VII	13 22 25 50.6	32.9N	60.3E	65	3.6b,3.2s		
NEIC	Less reliable solution.							
NEIC	Felt at Birjand and Qayen.							
ISC	**VII**	**28 13 18 41**±2.7	**30.0N**±.11	**50.97E**±.088	**157**±26	**3.8b**	**25**	**5-96**
BJI	VII	28 13 18 27.3	29.90N	51.10E	33	4.3b		¶97vii4278
NEIC	VII	28 13 18 27.3	29.90N	51.06E	33	4.4b		
EIDC	VII	28 13 18 41.3	29.8N	50.9E	148	3.5b,3.4s		
ISC	**VIII**	**15 05 38 06**±1.8	**30.53N**±.053	**56.59E**±.041	**18**±14	**4.3b,4.3s**	**79**	**6-92**
EIDC	VIII	15 05 38 04.4	30.6N	56.6E	0	4.2b,4.0L		¶97viii2165
MOS	VIII	15 05 38 05.8	30.2N	56.6E	33	4.9b,4.1s		
NEIC	VIII	15 05 38 07.8	30.70N	56.67E	33	4.5b,3.9s		
BJI	VIII	15 05 38 08.8	30.40N	56.77E	39	4.7b,4.9s		
ISC	**VIII**	**26 00 44 51**±1.2	**36.6N**±.10	**53.06E**±.048	**43**±13	**4.4b**,3.4s	**66**	**5-81**
EIDC	VIII	26 00 44 46.5	36.4N	53.0E	0	4.2b,3.8L		¶97viii3761
BJI	VIII	26 00 44 47.1	35.61N	52.97E	33	4.6b,4.3s		
NEIC	VIII	26 00 44 49.9	36.54N	53.07E	33	4.5b		
NEIC	Felt at Ghaem Shahr and Sari.							
ISC	**IX**	**16 12 15 33.5**±.73	**36.87N**±.052	**54.11E**±.034	**47**±7.4	**4.4b,4.0s**	**115**	**4-96**
EIDC	IX	16 12 15 29.2	36.8N	54.2E	0	4.4b,3.9s		¶97ix2381
NEIC	IX	16 12 15 32.0	36.92N	54.10E	33	4.8b		
MOS	IX	16 12 15 32.2	36.9N	54.0E	33	5.0b,4.2s		
BJI	IX	16 12 15 38.2	36.53N	55.12E	33	4.6b,4.8s		
ISC	**IX**	**18 03 50 05**±1.7	**37.3N**±.19	**56.7E**±.13	**38**±22	**4.0b**	**13**	**2-55**
NEIC	IX	18 03 50 04.6	37.27N	56.66E	33	4.6b		¶97ix2609
EIDC	IX	18 03 50 08.6	37.1N	56.6E	56	3.7b,4.5L		
NEIC	Less reliable solution.							
EIDC	LO CONF Depth							
EIDC	**IX**	**20 05 53 57.7**	**32.1N**	**50.3E**	**0**	**3.8b**		**¶97ix2905**
ISC	**IX**	**23 01 46 17.2**±.95	**35.8N**±.14	**56.9E**±.16	**33**	**3.9b**,3.3s	**9**	**21-71**
EIDC	IX	23 01 46 14.1	35.7N	56.8E	0	4.0b,3.3s		¶97ix3352
NEIC	IX	23 01 46 17.2	35.83N	56.87E	33	4.1b		
NEIC	Less reliable solution.							
ISC	**IX**	**23 03 06 17**±1.1	**35.80N**±.082	**57.01E**±.050	**54**±11	**4.3b,4.1s**	**80**	**2-94**
EIDC	IX	23 03 06 10.9	35.6N	57.0E	0	4.3b,4.3s		¶97ix3366
NEIC	IX	23 03 06 14.7	35.74N	56.97E	33	4.5b,3.9s		
ISC	**IX**	**24 20 23 51**±1.1	**35.8N**±.15	**56.8E**±.13	**33**	**3.6b**,3.7s	**10**	**2-47**
EIDC	IX	24 20 23 49.0	35.8N	56.7E	0	3.8b,3.6s		¶97ix3628
NEIC	IX	24 20 23 51.1	35.81N	56.77E	33	4.2b		
NEIC	Less reliable solution.							
NEIC	Felt at Sabzevar.							
ISC	**IX**	**24 22 27 36**±1.2	**35.69N**±.095	**56.94E**±.055	**46**±12	**4.4b,3.7s**	**74**	**2-82**
NEIC	IX	24 22 27 34.4	35.69N	56.92E	33	4.5b,3.6s		¶97ix3642
BJI	IX	24 22 27 36.9	36.34N	57.30E	5	4.8b		
EIDC	IX	24 22 27 40.4	35.7N	56.9E	70	4.0b,3.9s		
NEIC	Felt at Sabzevar.							
ISC	**X**	**13 22 53 09.1**±.73	**35.6N**±.13	**58.87E**±.087	**5**	**3.9b**	**14**	**10-39**
NEIC	X	13 22 53 11.6	35.46N	58.79E	33	4.2b		¶97x2298
EIDC	X	13 22 53 12.2	35.6N	58.9E	16	3.9b,3.8L		
BJI	X	13 22 53 14.7	35.78N	59.30E	5	4.6b,4.4s		
NEIC	Less reliable solution.							
ISC	**XI**	**03 06 59 30**±2.1	**36.26N**±.061	**54.47E**±.040	**23**±16	**4.5b**,4.5s	**100**	**3-97**
EIDC	XI	03 06 59 28.1	36.3N	54.5E	0	4.3b,4.5L		¶97xi0425
NEIC	XI	03 06 59 31.1	36.33N	54.45E	33	4.8b,4.5s		
BJI	XI	03 06 59 31.3	36.42N	54.63E	24	4.9b,4.7s		
NEIC	Felt in the Gongan area ,Iran (after KIV)							
ISC	**XI**	**03 11 43 20.4**±.88	**36.0N**±.16	**54.5E**±.11	**33**	**3.8b**,2.8s	**12**	**4-78**
BJI	XI	03 11 43 17.0	36.10N	54.30E	33			¶97xi0457
EIDC	XI	03 11 43 17.5	35.9N	54.5E	0	3.9b,3.1s		
NEIC	XI	03 11 43 21.6	36.07N	54.31E	33	4.2b		
NEIC	Less reliable solution.							
ISC	**XI**	**05 22 42 58**±2.1	**34.9N**±.13	**51.37E**±.093	**44**±22	**4.2b**	**26**	**4-80**
EIDC	XI	05 22 42 53.8	34.9N	51.6E	0	4.0b,4.2L		¶97xi0875
NEIC	XI	05 22 42 56.7	34.98N	51.36E	33	4.5b		
NEIC	Less reliable solution.							
NEIC	Felt at Tehran and Varamin.							
ISC	**XII**	**01 12 25 31.3**±.77	**35.4N**±.14	**59.3E**±.15	**33**	**4.0b**,3.2s	**13**	**1-66**
EIDC	XII	01 12 25 29.1±1.07	35.4N	59.3E	0	3.9b,3.3s		¶97xii0082
NEIC	XII	01 12 25 31.6	35.28N	59.25E	33	4.7b		
EIDC	Error ellipse is semi−major=29.9km semi−minor=21.1km azimuth=149							
NEIC	Less reliable solution.							

(351) Eastern Arabian Peninsula.

ISC	**VII**	**31 16 11 44**±3.3	**16.21N**±.063	**52.94E**±.051	**32**±23	**4.6b,4.4s**	**88**	**9-129**
MOS	VII	31 16 11 37.4	15.6N	52.9E	10	5.0b		¶97vii4759
BJI	VII	31 16 11 39.6	15.67N	52.75E	29	4.9b		
EIDC	VII	31 16 11 40.5	16.1N	53.0E	0	4.4b		
NEIC	VII	31 16 11 40.9	16.20N	52.96E	10	4.7b		
RYD	VII	31 16 11 43.0	16.4N	53.3E	18	4.9D		

Agency	mo	Origin Time d	h	m	s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
RYD	**VIII**	**02**	**22**	**34**	**00.7**	**23.49N**	**50.19E**		**3.3D**	**¶97viii0265**	
RYD	**VIII**	**05**	**12**	**53**	**07.2**	**23.67N**	**49.60E**	**45**	**3.3D**	**¶97viii0668**	
ISC	IX	**18**	**20**	**24**	**51**±3.0	**28.9N**±.14	**47.5E**±.10	**44**±24	**4.3b**	**31**	**5-88**
BJI	IX	18	20	24	46.2	29.00N	47.40E	10	4.4b		¶97ix2711
NEIC	IX	18	20	24	46.2	28.99N	47.44E	10	4.6b		
MOS	IX	18	20	24	49.3	28.7N	47.7E	33	5.1b		
EIDC	IX	18	20	24	50.0	28.9N	47.4E	23	4.1b		
NEIC	Less reliable solution.										
RYD	**IX**	**21**	**04**	**51**	**46.6**	**26.15N**	**44.19E**		**3.2D**	**¶97ix3042**	
RYD	**IX**	**28**	**05**	**23**	**59.0**	**26.2N**	**44.1E**	**1**	**3.3D**	**¶97ix4550**	
RYD	**XII**	**22**	**03**	**38**	**17.4**	**25.1N**	**48.89E**	**40**	**3.3D**	**¶97xii4347**	
RYD	**XII**	**22**	**14**	**02**	**14.7**	**25.42N**	**47.76E**	**15**	**3.0D**	**¶97xii4432**	
ISC	**XII**	**30**	**18**	**18**	**34**±3.2	**28.75N**±.072	**47.55E**±.078	**24**±27	**4.1b,3.5s**	**25**	**3-88**
RYD	XII	30	18	18	26.4	29.46N	47.93E	35			¶97xii5770
NEIC	XII	30	18	18	31.5	28.78N	47.50E	10	4.4b		
EIDC	XII	30	18	18	32.3±1.27	28.8N	47.5E	0	4.0b,3.5s		
BJI	XII	30	18	18	34.0	28.80N	47.50E	10			
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi−major=32.4km semi−minor=20.0km azimuth=161										

(353) Southern Iran.

ISC	**VII**	**04**	**21**	**20**	**56**±1.0	**27.4N**±.16	**56.2E**±.16	**33**	**3.8b**	**11**	**34-91**
EIDC	VII	04	21	20	53.5	27.3N	56.0E	0	3.8b		¶97vii0620
NEIC	VII	04	21	20	55.9	27.41N	56.16E	33	4.0b		
NEIC	Less reliable solution.										
ISC	**VII**	**09**	**01**	**17**	**51**±1.2	**27.99N**±.066	**53.77E**±.044	**47**±12	**4.4b,3.6s**	**87**	**8-93**
EIDC	VII	09	01	17	47.2	28.0N	53.7E	0	4.2b,3.6s		¶97vii1264
BJI	VII	09	01	17	49.3	27.88N	53.61E	37	4.3b		
NEIC	VII	09	01	17	49.9	28.00N	53.75E	33	4.6b		
ISC	**VII**	**09**	**15**	**40**	**52**±5.1	**28.0N**±.17	**53.8E**±.16	**54**±45	**3.8b**	**11**	**18-93**
EIDC	VII	09	15	40	46.0	27.9N	53.7E	0	3.8b,4.6L		¶97vii1359
NEIC	VII	09	15	40	49.9	28.02N	53.74E	33	3.9b		
NEIC	Less reliable solution.										
ISC	**VII**	**09**	**16**	**58**	**45**±1.3	**27.44N**±.097	**54.57E**±.067	**37**±13	**4.1b,**3.4s	**28**	**4-92**
EIDC	VII	09	16	58	42.0	27.3N	54.6E	0	4.1b,3.4s		¶97vii1366
RYD	VII	09	16	58	43.4	26.15N	55.78E	35	4.8D		
BJI	VII	09	16	58	44.8	27.40N	54.60E	33	4.3b		
NEIC	VII	09	16	58	44.8	27.38N	54.58E	33	4.1b		
NEIC	Less reliable solution.										
ISC	**VII**	**09**	**17**	**39**	**15**±2.8	**28.28N**±.067	**57.16E**±.055	**30**±21	**4.5b,**3.5s	**125**	**7-120**
MOS	VII	09	17	39	15.8	28.3N	57.2E	33	5.0b		¶97vii1370
BJI	VII	09	17	39	15.9	28.41N	57.19E	32	4.3b		
NEIC	VII	09	17	39	15.9	28.40N	57.18E	33	4.7b		
RYD	VII	09	17	39	16.7	28.6N	57.58E	25	4.5D		
EIDC	VII	09	17	39	25.5	28.4N	57.1E	104	3.9b,3.5s		
ISC	**VII**	**17**	**07**	**09**	**24**±1.7	**26.6N**±.26	**60.4E**±.16	**0**	**4.1b**	**15**	**7-50**
EIDC	VII	17	07	09	20.8	26.2N	61.5E	0	4.0b		¶97vii2565
ISC	**VII**	**21**	**00**	**54**	**39**±1.9	**29.37N**±.090	**53.2E**±.10	**43**±20	**3.9b**	**25**	**4-94**
RYD	VII	21	00	54	32.3	29.63N	53.69E	44	4.1D		¶97vii3168
EIDC	VII	21	00	54	33.9	29.2N	53.1E	0	3.9b,3.5L		
NEIC	VII	21	00	54	37.6	29.38N	53.25E	33	4.2b		
NEIC	Less reliable solution.										
ISC	**VII**	**21**	**04**	**38**	**03**±3.1	**28.4N**±.12	**57.2E**±.12	**70**±31	**3.9b**	**26**	**7-90**
NEIC	VII	21	04	37	58.9	28.37N	57.19E	33	4.6b		¶97vii3191
EIDC	VII	21	04	38	11.0	28.4N	57.0E	130	3.6b		
NEIC	Less reliable solution.										
ISC	**VII**	**21**	**04**	**58**	**46**±1.6	**28.19N**±.068	**57.34E**±.055	**60**±14	**4.5b**	**77**	**7-120**
BJI	VII	21	04	58	42.9	28.59N	57.48E	22	4.7b		¶97vii3196
NEIC	VII	21	04	58	43.4	28.21N	57.34E	33	4.5b		
MOS	VII	21	04	58	45.2	28.2N	56.9E	33	4.9b		
EIDC	VII	21	04	58	57.7	28.3N	57.3E	151	3.9b		
RYD	VII	21	04	59	00.0	28.17N	57.84E	45	4.2D		
ISC	**VII**	**24**	**04**	**00**	**15**±1.3	**27.8N**±.19	**56.3E**±.15	**33**	**3.9b**	**12**	**19-86**
EIDC	VII	24	04	00	11.6	27.8N	56.3E	0	4.0b		¶97vii3609
NEIC	VII	24	04	00	14.7	27.81N	56.31E	33			
NEIC	Less reliable solution.										
ISC	**VII**	**26**	**19**	**21**	**53.3**±.84	**27.7N**±.17	**56.4E**±.13	**150**	**3.5b**	**12**	**39-90**
EIDC	VII	26	19	21	59.3	27.7N	56.4E	193	3.3b		¶97vii3999
ISC	**VII**	**26**	**23**	**33**	**36**±5.9	**29.8N**±.24	**50.9E**±.52	**151**±36	**3.5b**	**11**	**6-85**
EIDC	VII	26	23	33	19.5	29.7N	51.1E	0	3.8b		¶97vii4029
NEIC	VII	26	23	33	20.9	29.47N	51.45E	33	3.7b		
NEIC	Poor solution.										
ISC	**VII**	**27**	**01**	**59**	**31.6**±.81	**29.12N**±.043	**52.35E**±.037	**43**±8.1	**4.5b,4.1s**	**141**	**3-124**
RYD	VII	27	01	59	19.6	30.78N	52.85E	28	4.6D		¶97vii4044
MOS	VII	27	01	59	29.1	29.0N	52.5E	33	4.9b		
BJI	VII	27	01	59	29.7	29.48N	52.26E	23	4.6b,5.1s		
NEIC	VII	27	01	59	30.8	29.14N	52.30E	33	4.6b		
EIDC	VII	27	01	59	35.2	29.2N	52.2E	52	4.1b,3.8s		
ISC	**VII**	**27**	**23**	**33**	**25.9**±.81	**27.40N**±.043	**56.65E**±.027	**36**±7.9	**4.8b,4.5s**	**259**	**6-128**
RYD	VII	27	23	33	18.0	27.45N	55.43E	50	4.9D		¶97vii4178
EIDC	VII	27	23	33	22.2	27.4N	56.7E	0	4.6b,4.5s		
MOS	VII	27	23	33	25.4	27.4N	56.7E	33	5.4b,4.3s		
NEIC	VII	27	23	33	25.8	27.53N	56.64E	33	4.9b,4.7s		
BJI	VII	27	23	33	27.0	28.35N	56.67E	10	4.8b,4.9s		
HRVD	VII	27	23	33	28.4±.7	27.41N±.08	56.56E±.08	33			
NEIC	Mw5.1(HRV).										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s14,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}0.51±.24; $M_{\theta\theta}$−3.67±.61; $M_{\phi\phi}$3.17±.58; $M_{r\theta}$−0.13±1.21; $M_{r\phi}$−1.46±1.26; $M_{\theta\phi}$−4.46±.26. Principal Axes: T 5.67,Plg14°,Azm65°; N 0.29,Plg75°,Azm217°; P −5.96,Plg7°,Azm333°. Best double couple: $M_0$5.8×10^{16}Nm, NP1: ϕ_S108°,δ76°,λ175°. NP2:ϕ_S199°,δ85°,λ15°.										
ISC	**VII**	**28**	**03**	**57**	**32**±3.3	**30.0N**±.11	**50.8E**±.32	**45**±27	**3.9b**	**11**	**5-87**
EIDC	VII	28	03	57	52.9	30.1N	50.4E	222	3.3b		¶97vii4204
ISC	**VII**	**29**	**03**	**24**	**35**±1.5	**27.03N**±.089	**54.41E**±.060	**75**±14	**4.1b**	**56**	**4-126**
BJI	VII	29	03	24	30.8	26.90N	54.40E	33	4.6b		¶97vii4375
NEIC	VII	29	03	24	30.8	26.99N	54.37E	33	4.4b		
MOS	VII	29	03	24	31.5	27.2N	54.4E	33	4.6b		
EIDC	VII	29	03	24	36.0	27.0N	54.6E	59	3.9b,4.0L		
ISC	**VII**	**30**	**05**	**04**	**35**±1.5	**29.75N**±.072	**51.04E**±.092	**51**±15	**4.1b**	**35**	**4-94**
NEIC	VII	30	05	04	33.8	29.87N	51.03E	33	4.3b		¶97vii4533
EIDC	VII	30	05	04	34.5	29.9N	50.9E	21	3.9b		
RYD	VII	30	05	04	34.7	30N	51.14E	45	4.0D		
ISC	**VIII**	**01**	**20**	**07**	**19**±3.9	**28.88N**±.084	**52.6E**±.11	**16**±29	**4.1b,**3.4s	**44**	**3-94**
EIDC	VIII	01	20	07	18.4	28.9N	52.6E	0	3.9b,3.4s		¶97viii0107
NEIC	VIII	01	20	07	21.3	28.90N	52.62E	33	4.3b		
NEIC	Felt at Firuzabad.										
ISC	**VIII**	**14**	**19**	**38**	**27.9**±.66	**29.00N**±.036	**51.50E**±.026	**47**±6.4	**4.7b,4.0s**	**240**	**3-123**
RYD	VIII	14	19	38	12.6	30.45N	51.62E	43	3.5D		¶97viii2105
MOS	VIII	14	19	38	24.3	28.7N	51.6E	33	5.3b,3.9s		
BJI	VIII	14	19	38	25.4	28.89N	51.38E	37	5.0b,4.7s		
NEIC	VIII	14	19	38	26.2	29.06N	51.54E	33	4.7b,4.0s		
EIDC	VIII	14	19	38	29.9	29.0N	51.5E	49	4.3b,3.9s		
ISC	**VIII**	**17**	**06**	**42**	**42.4**±.89	**27.71N**±.052	**54.70E**±.032	**49**±8.2	**4.5b,4.1s**	**128**	**4-92**
RYD	VIII	17	06	42	34.8	27.69N	55.54E	45	3.8D		¶97viii2502
MOS	VIII	17	06	42	39.7	27.5N	54.7E	33	4.8b,4.0s		
EIDC	VIII	17	06	42	40.1	27.7N	54.7E	17	4.4b,3.9s		
NEIC	VIII	17	06	42	40.5	27.71N	54.67E	33	4.4b,3.8s		
BJI	VIII	17	06	42	41.3	27.57N	54.82E	36	4.9b,5.0s		
ISC	**VIII**	**17**	**07**	**08**	**34**±1.2	**27.68N**±.069	**54.71E**±.045	**60**±11	**4.3b**	**78**	**4-92**
MOS	VIII	17	07	08	28.8	27.3N	54.6E	33	4.7b		¶97viii2505
NEIC	VIII	17	07	08	30.8	27.65N	54.64E	33	4.3b		
BJI	VIII	17	07	08	30.9	27.42N	54.63E	41	4.4b		
EIDC	VIII	17	07	08	31.6	27.6N	54.7E	26	4.2b,4.1L		
RYD	VIII	17	07	08	33.8	24.65N	54.68E	33	3.7D		
ISC	**VIII**	**24**	**21**	**11**	**20**±2.0	**28.75N**±.042	**52.69E**±.027	**2**±12	**5.0b,4.2s**	**296**	**3-133**
BJI	VIII	24	21	11	23.3	28.72N	52.61E	34	5.0b,4.8s		¶97viii3591
NEIC	VIII	24	21	11	24.7	28.80N	52.59E	33	5.0b,4.1s		
EIDC	VIII	24	21	11	24.9	28.8N	52.7E	20	4.6b,4.2s		
NEIC	Casualties.										
NEIC	Sixty-seven people injured in the Firuzabad area.										
ISC	**VIII**	**24**	**21**	**42**	**27**±1.8	**26.7N**±.21	**53.5E**±.25	**33**	**3.7b**	**9**	**19-47**
NEIC	VIII	24	21	42	26.9	26.61N	53.59E	33			¶97viii3595
EIDC	VIII	24	21	42	44.8	26.8N	53.2E	168	3.3b,3.7L		
NEIC	Poor solution.										
ISC	**VIII**	**29**	**14**	**35**	**58**±4.6	**27.0N**±.11	**53.90E**±.062	**13**±29	**4.2b**	**31**	**3-92**
EIDC	VIII	29	14	35	58.3	27.0N	53.9E	0	4.2b,4.6L		¶97viii4324
NEIC	VIII	29	14	36	01.9	27.08N	54.01E	33	4.4b		
NEIC	Less reliable solution.										
ISC	**VIII**	**29**	**14**	**43**	**57**±1.1	**27.25N**±.076	**53.77E**±.039	**38**±10	**4.5b,4.5s**	**117**	**3-92**
RYD	VIII	29	14	43	46.9	27.49N	54.82E	45	3.7D		¶97viii4327
EIDC	VIII	29	14	43	54.2	27.6N	53.8E	0	4.4b,4.7s		
NEIC	VIII	29	14	43	57.4	27.56N	53.89E	33	4.8b,4.2s		
BJI	VIII	29	14	43	58.0	27.62N	53.77E	38	4.8b,4.9s		
ISC	**VIII**	**29**	**15**	**55**	**58**±2.5	**27.06N**±.089	**53.87E**±.053	**17**±19	**4.3b,**4.2s	**47**	**3-92**
EIDC	VIII	29	15	55	56.3	27.1N	53.8E	0	4.2b,4.1s		¶97viii4342
BJI	VIII	29	15	55	59.8	27.20N	53.90E	33	4.7b,4.5s		
NEIC	VIII	29	15	55	59.8	27.19N	53.90E	33	4.6b		
NEIC	Less reliable solution.										
ISC	**IX**	**01**	**01**	**43**	**26**±4.2	**28.5N**±.62	**52.7E**±.20	**33**	**3.9b**	**14**	**35-51**
EIDC	IX	01	01	43	25.0	28.6N	52.6E	0	3.9b		¶97ix0017
NEIC	IX	01	01	43	25.5	28.38N	52.65E	33	4.1b		
NEIC	Poor solution.										
ISC	**IX**	**03**	**08**	**06**	**50**±1.6	**28.7N**±.19	**53.1E**±.21	**33**	**4.0b**	**14**	**7-86**
EIDC	IX	03	08	06	47.6	28.7N	53.0E	0	4.0b		¶97ix0398
NEIC	IX	03	08	06	50.4	28.74N	53.04E	33			
NEIC	Poor solution.										
EIDC	**IX**	**06**	**03**	**30**	**03.2**	**27.9N**	**56.3E**	**0**	**3.9b**		¶97ix0853
ISC	**IX**	**13**	**18**	**38**	**31**±1.2	**27.61N**±.069	**53.05E**±.058	**34**±12	**4.1b**	**38**	**3-93**
BJI	IX	13	18	38	27.8	27.60N	53.10E	10	4.4b		¶97ix2015
NEIC	IX	13	18	38	27.8	27.64N	53.07E	10	4.3b		
EIDC	IX	13	18	38	38.2	27.7N	53.2E	80	3.8b,4.3L		
NEIC	Less reliable solution.										
ISC	**IX**	**16**	**16**	**43**	**23.7**±.55	**28.09N**±.095	**57.56E**±.072	**33**	**4.2b**	**22**	**7-90**
EIDC	IX	16	16	43	22.0	28.3N	57.9E	0	4.2b		¶97ix2409
BJI	IX	16	16	43	24.8	28.30N	57.80E	33	4.3b		
NEIC	IX	16	16	43	24.8	28.28N	57.76E	33	4.3b		
NEIC	Less reliable solution.										
ISC	**IX**	**17**	**21**	**44**	**28**±3.0	**27.37N**±.082	**56.38E**±.085	**27**±23	**4.3b,**3.1s	**34**	**6-86**
BJI	IX	17	21	44	24.7	27.15N	56.57E	21			¶97ix2560
EIDC	IX	17	21	44	26.6	27.4N	56.5E	0	4.2b,3.4s		
NEIC	IX	17	21	44	29.7	27.51N	56.40E	33	4.3b		
NEIC	Less reliable solution.										
ISC	**IX**	**18**	**14**	**52**	**56**±1.2	**27.09N**±.054	**53.90E**±.029	**56**±10	**4.7b,4.4s**	**184**	**9-133**
EIDC	IX	18	14	52	50.6	27.1N	53.9E	0	4.6b,4.3s		¶97ix2676
BJI	IX	18	14	52	53.8	27.10N	53.90E	33	4.8b,4.8s		
NEIC	IX	18	14	52	53.8	27.11N	53.91E	33	4.8b,4.1s		
MOS	IX	18	14	52	54.0	27.1N	53.9E	33	5.2b,4.3s		
ISC	**IX**	**19**	**20**	**37**	**09**±2.9	**27.2N**±.15	**53.85E**±.084	**61**±24	**4.1b**	**26**	**9-92**
NEIC	IX	19	20	37	05.3	27.14N	53.92E	33	4.2b		¶97ix2844
BJI	IX	19	20	37	05.8	26.48N	54.17E	42	4.4b		
EIDC	IX	19	20	37	20.4	27.2N	53.9E	155	3.7b,3.4s		
NEIC	Less reliable solution.										
ISC	**IX**	**20**	**03**	**20**	**42**±1.7	**27.1N**±.27	**54.0E**±.25	**33**	**3.9b,**3.5s	**7**	**35-92**
EIDC	IX	20	03	20	37.6	26.8N	53.7E	0	3.9b,3.4s		¶97ix2889
NEIC	IX	20	03	20	41.6	27.14N	53.96E	33			
NEIC	Poor solution.										
ISC	**IX**	**21**	**08**	**37**	**34**±2.9	**27.0N**±.32	**54.0E**±.24	**95**±26	**4.1b**	**11**	**4-59**
EIDC	IX	21	08	37	25.2	27.0N	53.9E	0	4.0b		¶97ix3068
NEIC	IX	21	08	37	27.2	26.94N	53.98E	33			
NEIC	Poor solution.										
ISC	**X**	**03**	**11**	**28**	**42.3**±.66	**27.80N**±.033	**54.69E**±.022	**48**±6.2	**5.1b,4.8s**	**370**	**4-134**
BJI	X	03	11	28	35.0	27.77N	53.93E	33	5.0b,5.0s		¶97x0454
EIDC	X	03	11	28	37.4	27.8N	54.7E	0	5.0b,4.6s		
RYD	X	03	11	28	39.1	27.73N	55.14E	40	4.4D		
NEIC	X	03	11	28	40.5	27.81N	54.73E	33	5.2b,4.8s		
MOS	X	03	11	28	40.7	27.8N	54.7E	33	5.6b,4.8s		
HRVD	X	03	11	28	47.5±1.1	27.49N±.11	54.84E±.09	15			
NEIC	Mw5.3(HRV). Casualties.										
NEIC	Six people injured and several houses damaged in the epicentral area.										
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c28; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.80±.55; $M_{\theta\theta}$−5.04±.53; $M_{\phi\phi}$2.25±.66; $M_{r\theta}$−6.49±2.17; $M_{r\phi}$−5.93±1.27; $M_{\theta\phi}$3.54±.60. Principal Axes: T 11.6,Plg44°,Azm124°; N −2.9,Plg32°,Azm251°; P −8.7,Plg29°,Azm1°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S142°,δ33°,λ164°. NP2:ϕ_S246°,δ81°,λ58°.										
ISC	**X**	**03**	**17**	**01**	**03.6**±.83	**27.65N**±.043	**54.67E**±.030	**60**±7.9	**4.7b**	**180**	**4-120**
EIDC	X	03	17	00	57.7	27.7N	54.8E	0	4.7b,4.4L		¶97x0493
MOS	X	03	17	01	00.8	27.6N	54.7E	33	5.0b,4.2s		
NEIC	X	03	17	01	00.8	27.76N	54.71E	33	4.8b,4.1s		
BJI	X	03	17	01	01.0	27.88N	54.59E	36	4.9b,4.6s		
ISC	**X**	**06**	**16**	**09**	**41**±1.4	**28.49N**±.077	**57.22E**±.042	**74**±13	**4.6b**	**79**	**7-90**
BJI	X	06	16	09	35.3	28.48N	57.09E	34	4.8b		¶97x1076
NEIC	X	06	16	09	36.4	28.51N	57.13E	33	4.8b		
MOS	X	06	16	09	37.2	28.6N	57.3E	33	5.1b		
EIDC	X	06	16	09	38.1	28.4N	57.3E	28	4.4b		
ISC	**X**	**12**	**15**	**52**	**40.8**±.79	**27.7N**±.12	**54.7E**±.11	**33**	**3.9b**	**15**	**4-86**
NEIC	X	12	15	52	41.2	27.76N	54.88E	33	4.0b		¶97x2068
EIDC	X	12	15	52	42.6	27.7N	54.8E	29	3.8b		
BJI	X	12	15	52	44.0	27.20N	55.69E	31	4.2b		
NEIC	Less reliable solution.										

ISC	**X**	**15 20 08 34.7**±.64	**27.7N**±.11	**54.3E**±.11	**33**	**3.7b**	**15**	**7-92**
EIDC	X	15 20 08 31.5	27.7N	54.4E	0	3.8b		**¶97x2703**
NEIC	X	15 20 08 34.8	27.74N	54.31E	33			
NEIC	Less reliable solution.							
ISC	**X**	**20 06 09 10.9**±.92	**28.53N**±.035	**57.26E**±.022	**93**±8.7	**5.5b**	**479**	**7-136**
MOS	X	20 06 09 03.1	28.3N	57.2E	33	5.9b,4.7s		**¶97x3450**
NEIC	X	20 06 09 04.2	28.50N	57.28E	33	5.6b,5.0s		
BJI	X	20 06 09 05.3	28.81N	57.25E	37	5.4b,5.0s		
HRVD	X	20 06 09 09.5±.4	27.98N±.05	57.45E±.05	33			
EIDC	X	20 06 09 10.8	28.5N	57.3E	77	5.0b		
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c43; Mantle waves: s3,c3; Half duration: 1φ2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.94±.04; $M_{\theta\theta}$−0.87±.07; $M_{\phi\phi}$−0.08±.08; $M_{r\theta}$1.17±.14; $M_{r\phi}$0.42±.16; $M_{\theta\phi}$0.13±.05. Principal Axes: T 1.63,Plg61°,Azm330°; N −0.19,Plg12°,Azm81°; P −1.44,Plg27°,Azm177°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S293°,δ21°,λ124°. NP2:ϕ_S77°,δ72°,λ78°.							
ISC	**X**	**20 10 06 36**±1.0	**28.44N**±.055	**57.24E**±.034	**46**±9.8	**4.7b,3.8s**	**151**	**7-136**
MOS	X	20 10 06 34.2	28.3N	57.3E	33	5.2b		**¶97x3477**
BJI	X	20 10 06 34.5	28.39N	56.97E	51	4.8b		
NEIC	X	20 10 06 34.5	28.52N	57.25E	33	4.9b		
EIDC	X	20 10 06 36.2	28.4N	57.3E	33	4.3b,3.8s		
ISC	**X**	**23 14 35 33.0**±.95	**28.08N**±.044	**53.89E**±.031	**34**±9.1	**4.7b,4.5s**	**151**	**4-125**
BJI	X	23 14 35 31.4	28.01N	53.83E	30	4.9b,5.0s		**¶97x4015**
MOS	X	23 14 35 31.6	27.8N	53.9E	33	5.1b		
NEIC	X	23 14 35 32.8	28.04N	53.87E	33	4.8b,4.1s		
EIDC	X	23 14 35 35.9	28.1N	53.9E	43	4.4b,4.4s		
ISC	**X**	**24 07 02 20**±2.0	**28.0N**±.16	**53.8E**±.10	**46**±24	**3.9b**	**14**	**4-93**
EIDC	X	24 07 02 15.0	27.8N	53.7E	0	3.9b,4.6L		**¶97x4116**
NEIC	X	24 07 02 18.7	27.96N	53.80E	33			
NEIC	Single network solution.							
ISC	**X**	**24 07 09 40**±1.5	**28.0N**±.11	**53.85E**±.080	**58**±17	**4.0b**	**22**	**4-93**
EIDC	X	24 07 09 34.1	28.1N	53.9E	0	4.0b,4.4L		**¶97x4117**
NEIC	X	24 07 09 37.4	28.01N	53.91E	33	4.2b		
NEIC	Less reliable solution.							
ISC	**X**	**24 09 20 32**±7.4	**28.3N**±.14	**53.9E**±.10	**6**±48	**3.9b**	**18**	**4-93**
NEIC	X	24 09 20 36.5	28.48N	54.01E	33			**¶97x4137**
EIDC	X	24 09 20 40.7	28.4N	54.1E	57	3.7b,4.5L		
NEIC	Poor solution.							
EIDC	LO CONF Depth							
ISC	**X**	**28 01 04 46**±1.5	**26.1N**±.21	**55.1E**±.22	**33**	**4.1b**	**9**	**20-60**
EIDC	X	28 01 04 43.6	26.1N	55.0E	0	4.1b		**¶97x4679**
NEIC	X	28 01 04 46.4	26.10N	55.03E	33	4.1b		
NEIC	Less reliable solution.							
ISC	**X**	**31 05 50 16**±1.3	**28.05N**±.075	**53.68E**±.065	**47**±14	**4.2b,**4.0s	**39**	**4-93**
BJI	X	31 05 50 12.2	28.22N	53.66E	21	4.4b		**¶97x5138**
NEIC	X	31 05 50 14.7	28.03N	53.64E	33	4.5b,4.0s		
EIDC	X	31 05 50 21.5	28.2N	53.8E	80	3.7b,4.4L		
NEIC	Less reliable solution.							
ISC	**XI**	**01 04 07 46**±1.9	**28.12N**±.094	**53.82E**±.061	**60**±17	**4.2b,4.0s**	**52**	**8-93**
BJI	XI	01 04 07 43.1	28.10N	53.80E	33	4.4b		**¶97xi0029**
NEIC	XI	01 04 07 43.1	28.06N	53.78E	33	4.4b		
EIDC	XI	01 04 07 51.6	28.2N	53.9E	93	3.8b,3.8s		
ISC	**XI**	**01 11 31 23**±2.3	**28.2N**±.59	**53.9E**±.64	**33**	**3.8b**	**4**	**37-93**
EIDC	XI	01 11 31 19.2	28.3N	54.1E	0	3.8b		**¶97xi0072**
ISC	Poorly determined							
ISC	**XI**	**01 13 36 34**±1.3	**28.45N**±.083	**57.16E**±.046	**64**±13	**4.4b**	**76**	**7-90**
BJI	XI	01 13 36 30.0	28.22N	57.12E	43	4.7b		**¶97xi0089**
NEIC	XI	01 13 36 30.9	28.52N	57.17E	33	4.5b		
EIDC	XI	01 13 36 32.6	28.6N	57.3E	31	4.1b,4.4L		
RYD	XI	01 13 36 36.4	28.66N	57.17E	35	3.6D		
ISC	**XI**	**03 04 10 09.9**±.49	**27.7N**±.10	**52.43E**±.073	**33**	**4.1b**	**24**	**16-90**
EIDC	XI	03 04 10 07.3	27.7N	52.4E	0	4.1b,5.1L		**¶97xi0403**
NEIC	XI	03 04 10 10.1	27.74N	52.45E	33			
NEIC	Single network solution.							
ISC	**XI**	**03 22 49 56**±1.1	**28.1N**±.13	**58.5E**±.19	**33**	**4.0b**	**11**	**8-65**
EIDC	XI	03 22 49 54.0	28.1N	58.3E	0	4.1b		**¶97xi0530**
NEIC	XI	03 22 49 56.0	28.08N	58.52E	33	4.1b		
NEIC	Less reliable solution.							
ISC	**XI**	**04 19 25 16**±1.3	**27.99N**±.072	**53.77E**±.066	**34**±13	**4.1b**	**34**	**4-93**
EIDC	XI	04 19 25 12.8	28.1N	53.8E	0	4.0b,4.9L		**¶97xi0678**
NEIC	XI	04 19 25 16.1	28.09N	53.83E	33	4.5b		
NEIC	Less reliable solution.							
ISC	**XI**	**26 13 42 21**±1.5	**27.7N**±.24	**56.6E**±.13	**10**	**4.0b**	**12**	**16-90**
EIDC	XI	26 13 42 20.7	27.6N	56.5E	0	4.0b,4.4L		**¶97xi4692**
NEIC	XI	26 13 42 21.0	27.70N	56.59E	10			
NEIC	Less reliable solution.							
ISC	**XII**	**09 09 07 56**±2.6	**28.27N**±.091	**55.61E**±.063	**44**±24	**4.4b,3.6s**	**55**	**9-91**
EIDC	XII	09 09 07 51.5±.57	28.2N	55.7E	0	4.3b,3.5s		**¶97xii2137**
BJI	XII	09 09 07 54.5	28.20N	55.60E	33	4.5b		
NEIC	XII	09 09 07 54.5	28.28N	55.65E	33	4.6b		
EIDC	Error ellipse is semi−major=16.4km semi−minor=14.6km azimuth=130							
ISC	**XII**	**14 04 14 28**±1.2	**28.2N**±.23	**53.7E**±.12	**33**	**4.0b**	**12**	**24-89**
EIDC	XII	14 04 14 22.3±2.70	28.0N	54.4E	0	3.9b		**¶97xii3088**
EIDC	Error ellipse is semi−major=64.7km semi−minor=41.6km azimuth=120							
ISC	**XII**	**15 21 07 34**±1.8	**29.14N**±.085	**51.24E**±.051	**34**±16	**4.2b**	**42**	**6-88**
EIDC	XII	15 21 07 31.6±.78	29.2N	51.1E	0	4.0b,4.3L		**¶97xii3343**
BJI	XII	15 21 07 34.2	29.20N	51.20E	33	4.5b		
NEIC	XII	15 21 07 34.2	29.17N	51.17E	33	4.5b		
EIDC	Error ellipse is semi−major=20.1km semi−minor=14.1km azimuth=157							
ISC	**XII**	**18 03 17 03.3**±.86	**27.9N**±.17	**56.79E**±.083	**33**	**4.1b**	**18**	**21-51**
EIDC	XII	18 03 16 58.8±1.96	27.7N	56.9E	0	4.1b		**¶97xii3704**
NEIC	XII	18 03 17 01.3	27.75N	57.02E	33			
EIDC	Error ellipse is semi−major=45.2km semi−minor=22.3km azimuth=149							
NEIC	Poor solution.							
EIDC	**XII**	**22 19 13 20.2**±3.31	**29.2N**	**54.2E**	**0**	**4.0b**		**5-88**
EIDC	Error ellipse is semi−major=87.6km semi−minor=34.3km azimuth=37							**¶97xii4472**
ISC	**XII**	**26 01 05 36**±1.9	**28.09N**±.062	**53.41E**±.033	**26**±14	**4.2b,4.0s**	**96**	**3-93**
BJI	XII	26 01 05 33.7	28.16N	53.34E	18	4.5b,4.6s		**¶97xii5020**
NDI	XII	26 01 05 36	28.03N	53.39E	25	4.4b		
NEIC	XII	26 01 05 36.0	28.04N	53.39E	25	4.4b,4.0s		
EIDC	XII	26 01 05 37.6±.90	28.1N	53.3E	24±4.8	3.9b,4.0s		
EIDC	Error ellipse is semi−major=17.0km semi−minor=14.1km azimuth=161							
ISC	**XII**	**26 05 08 04**±2.2	**28.00N**±.066	**53.31E**±.058	**28**±17	**4.1b,**4.2s	**31**	**3-93**
EIDC	XII	26 05 08 01.3±.62	28.1N	53.3E	0	4.1b,4.3s		**¶97xii5053**
NEIC	XII	26 05 08 04.1	28.03N	53.37E	33	4.0b		
EIDC	Error ellipse is semi−major=19.7km semi−minor=14.2km azimuth=116							
NEIC	Less reliable solution.							

(354) Western Pakistan.

ISC	**VIII**	**28 12 11 33.4**±.72	**25.3N**±.11	**62.33E**±.070	**24**	**4.4b,**3.8s	**38**	**9-124**
BJI	VIII	28 12 11 34.4	25.20N	62.30E	33	4.6b,4.3s		**¶97viii4129**
NEIC	VIII	28 12 11 34.4	25.24N	62.32E	33	4.6b		
EIDC	VIII	28 12 11 35.7	25.3N	62.3E	24	4.1b,3.8s		
NEIC	Less reliable solution.							
ISC	**XII**	**04 10 17 01**±1.6	**29.00N**±.043	**64.15E**±.027	**32**±12	**4.9b,4.6s**	**196**	**3-141**
MOS	XII	04 10 17 00.8	28.8N	64.2E	33	5.3b,4.7s		**¶97xii0598**
NDI	XII	04 10 17 01.3	29.09N	64.11E	0	5.0b		
NEIC	XII	04 10 17 01.3	29.09N	64.11E	33	5.0b,4.5s		
BJI	XII	04 10 17 01.4	29.04N	64.19E	32	5.2b,5.0s		
EIDC	XII	04 10 17 02.6±.38	29.1N	64.2E	23±2.1	4.6b,5.6L		
HRVD	XII	04 10 17 05.6±.6	29.43N±.11	64.81E±.08	33			
NEIC	Mw5.1(HRV)							
NEIC	Felt at Dalbandin.							
EIDC	Error ellipse is semi−major=10.1km semi−minor=8.6km azimuth=172							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c29; Half duration: 1φ0. Moment tensor: Scale 10^{16}Nm; M_{rr}4.55±.70; $M_{\theta\theta}$−0.41±.71; $M_{\phi\phi}$−4.15±.65; $M_{r\theta}$0.50±1.71; $M_{r\phi}$−0.97±1.46; $M_{\theta\phi}$−4.26±.85. Principal Axes: T 4.93,Plg69°,Azm40°; N 2.03,Plg20°,Azm212°; P −6.95,Plg3°,Azm303°. Best double couple: $M_0$5.9×10^{16}Nm, NP1: ϕ_S53°,δ46°,λ119°. NP2:ϕ_S194°,δ51°,λ63°.							

(356) Near coast of Pakistan.

ISC	**IX**	**08 06 31 37.9**±.38	**24.30N**±.062	**63.39E**±.048	**37**±.6*	**4.4b,3.9s**	**59**	**10-134**
NEIC	IX	08 06 31 38.0	24.29N	63.31E	36	4.3b		**¶97ix1185**
EIDC	IX	08 06 31 39.7	24.2N	63.2E	36	4.1b,3.6s		
BJI	IX	08 06 31 43.2	24.42N	63.93E	36	4.7b		

SEISMIC REGION 30.
MIDDLE EAST-CRIMEA-EASTERN BALKANS.

(357) South-Western Russia.

ISC	**VII**	**21 23 03 10**±3.1	**45.43N**±.089	**28.2E**±.34	**0**		**5**	**0-2**
BUC	VII	21 23 03 11.2	45.41N	28.11E		3.1D		**¶97vii3296**
BUC	**VII**	**25 00 24 30.0**	**46.20N**	**28.05E**		**2.4D**		**¶97vii3744**
ISC	**VIII**	**21 08 49 43**±1.9	**45.12N**±.074	**28.3E**±.24	**10**		**9**	**0-3**
BUC	VIII	21 08 49 42.0	45.13N	28.31E		3.1D		**¶97viii3074**
NEIC	VIII	21 08 49 42.6	45.12N	28.36E	10			
NEIC	Single network solution.							
BUC	**VIII**	**26 08 13 09.1**	**45.04N**	**28.68E**		**2.8D**		**¶97viii3811**
BUC	**IX**	**04 13 54 55.8**	**45.06N**	**28.79E**		**2.5D**		**¶97ix0600**
ISC	**IX**	**08 15 07 25**±4.8	**46.9N**±.33	**37.9E**±.49	**33**	3.5b	**8**	**7-24**
EIDC	IX	08 15 07 16.9	46.6N	38.6E	0	3.7L,3.7b		**¶97ix1239**
BUC	**X**	**06 12 45 49.1**	**45.01N**	**29.04E**		**3.1D**		**¶97x1050**
ISC	**XI**	**06 07 56 42.1**±.75	**46.75N**±.054	**28.2E**±.14	**10**	3.9b	**21**	**1-49**
EIDC	XI	06 07 56 42.3	46.7N	28.2E	0	3.8L,4.0b		**¶97xi0945**
NEIC	XI	06 07 56 42.8	46.76N	28.07E	10			
BUC	XI	06 07 56 46.5	46.46N	27.99E		3.9D		
BUC	**XI**	**20 08 04 43.6**	**45.22N**	**28.22E**		**3.0D**		**¶97xi3419**
ISC	**XII**	**16 08 02 32**±9.1	**46.4N**±.79	**36.2E**±.79	**0**	3.4b	**5**	**16-24**
EIDC	XII	16 08 02 37.2	46.9N	36.6E	0	3.4b,3.7L		**¶97xii3412**
EIDC	Origin time error = 17.08Error ellipse is semi−major=235.3km semi−minor=83.7km azimuth=161							
EIDC	**XII**	**26 14 09 26.9**±8.77	**48.6N**	**37.0E**	**0**	3.6L,3.3b		**14-22**
								¶97xii5143
EIDC	Error ellipse is semi−major=113.4km semi−minor=78.1km azimuth=149							

(358) Romania.

BUC	**VII**	**02 18 31 51.2**	**45.70N**	**26.80E**		**3.0D**		**¶97vii0282**
BUC	**VII**	**03 00 26 06.1**	**45.57N**	**26.52E**		**3.0D**		**¶97vii0328**
BUC	**VII**	**03 02 40 22.6**	**45.62N**	**26.43E**		**3.5D**		**¶97vii0344**
ISC	**VII**	**04 00 30 59.9**±.89	**45.81N**±.094	**26.80E**±.095	**91**		**18**	**0-5**
NEIC	VII	04 00 31 00.8	45.75N	26.78E	91			**¶97vii0474**
BUC	VII	04 00 31 01.3	45.78N	26.85E		3.9D		
BUC	**VII**	**07 01 23 48.8**	**45.71N**	**26.66E**		**3.5D**		**¶97vii0964**
ISC	**VII**	**07 10 51 41**±1.7	**45.4N**±.19	**25.3E**±.14	**0**		**5**	**0-1**
BUC	VII	07 10 51 41.4	45.27N	25.42E		2.6D		**¶97vii1029**
BUC	**VII**	**10 09 48 00.4**	**44.35N**	**28.36E**		**2.7D**		**¶97vii1494**
BUC	**VII**	**10 22 28 51.1**	**45.72N**	**26.78E**		**3.5D**		**¶97vii1579**
ISC	**VII**	**13 18 12 14**±1.2	**45.6N**±.27	**26.4E**±.31	**150**		**5**	**0-1**
NEIC	VII	13 18 12 14.6	45.58N	26.50E	150			**¶97vii2006**
BUC	VII	13 18 12 15.0	45.68N	26.52E		3.1D		
NEIC	Poor solution.							
ISC	**VII**	**14 00 37 22.9**±.34	**45.83N**±.041	**26.67E**±.078	**138**±5.1	**3.8b**	**50**	**0-70**
NEIC	VII	14 00 37 23.0	45.87N	26.68E	140	3.6b		**¶97vii2050**
EIDC	VII	14 00 37 23.9	45.8N	26.7E	132	3.5b		
BUC	VII	14 00 37 24.2	45.77N	26.76E		4.6D		
ISC	**VII**	**15 13 40 56.2**±.92	**45.37N**±.098	**26.81E**±.081	**0**		**8**	**0-1**
BUC	VII	15 13 40 50.4	45.67N	26.56E		3.7D		**¶97vii2311**
BUC	**VII**	**15 18 13 16.7**	**45.38N**	**25.88E**		**2.4D**		**¶97vii2333**
BUC	**VII**	**16 14 18 58.2**	**45.08N**	**25.20E**		**3.0D**		**¶97vii2450**
BUC	**VII**	**19 00 42 02.5**	**45.65N**	**26.16E**		**2.7D**		**¶97vii2805**
BUC	**VII**	**22 01 17 58.0**	**45.75N**	**26.74E**		**3.0D**		**¶97vii3310**
ISC	**VII**	**25 08 42 47**±1.3	**45.6N**±.12	**26.3E**±.14	**5**±22		**5**	**0-2**
BUC	VII	25 08 42 47.4	45.61N	26.29E		2.9D		**¶97vii3807**
ISC	Poorly determined							
ISC	**VII**	**25 18 21 30**±2.6	**46.0N**±.42	**26.9E**±.22	**150**		**7**	**0-2**
NEIC	VII	25 18 21 31.4	45.80N	26.80E	150			**¶97vii3858**
BUC	VII	25 18 21 34.3	45.71N	26.82E		3.5D		
NEIC	Poor solution.							
BUC	**VII**	**28 10 33 30.4**	**45.36N**	**25.37E**		**2.4D**		**¶97vii4252**
BUC	**VII**	**31 15 39 55.1**	**45.47N**	**26.46E**		**3.1D**		**¶97vii4753**
ISC	**VIII**	**01 12 25 06**±1.9	**45.3N**±.25	**25.4E**±.14	**0**		**5**	**0-2**
BUC	VIII	01 12 25 06.7	45.35N	25.37E		3.0D		**¶97viii0062**
ISC	**VIII**	**03 07 15 26**±1.1	**45.59N**±.074	**27.7E**±.10	**0**		**6**	**0-1**
BUC	VIII	03 07 15 25.4	45.66N	27.69E		3.1D		**¶97viii0327**
NEIC	VIII	03 07 15 26.4	45.66N	27.73E	33			
NEIC	Poor solution.							
ISC	**VIII**	**04 20 31 50**±1.6	**45.0N**±.12	**25.7E**±.11	**0**		**7**	**0-2**
BUC	VIII	04 20 31 49.9	44.97N	25.63E		3.2D		**¶97viii0544**
BUC	**VIII**	**05 20 58 35.8**	**46.30N**	**27.41E**		**2.3D**		**¶97viii0715**
BUC	**VIII**	**07 20 29 38.3**	**45.63N**	**26.66E**		**2.8D**		**¶97viii0998**
ISC	**VIII**	**10 13 48 23**±5.1	**45.5N**±.16	**26.4E**±.29	**123**±47		**9**	**0-2**
NEIC	VIII	10 13 48 22.5	45.47N	26.35E	131			**¶97viii1398**
BUC	VIII	10 13 48 22.9	45.52N	26.42E		3.9D		
NEIC	Single network solution.							
BUC	**VIII**	**11 12 10 53.2**	**45.38N**	**26.38E**		**3.0D**		**¶97viii1558**

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
BUC	**VIII 12 11 49 15.2**	**45.54N**	**26.41E**		**3.2D**		**¶97viii1742**
BUC	**VIII 14 14 44 12.2**	**45.24N**	**25.11E**		**2.6D**		**¶97viii2079**
BUC	**VIII 15 11 56 22.1**	**45.30N**	**25.40E**		**2.6D**		**¶97viii2215**
BUC	**VIII 16 03 07 18.6**	**45.77N**	**26.73E**		**2.6D**		**¶97viii2309**
BUC	**VIII 16 09 12 37.9**	**45.65N**	**26.59E**		**2.4D**		**¶97viii2340**
ISC	**VIII 18 12 28 58**±9.4	**44.7N**±.20	**24.8E**±.89	**0**			**6 1-2**
BUC	VIII 18 12 29 03.7	44.87N	25.18E		3.2D		**¶97viii2679**
BUC	**VIII 20 02 01 38.2**	**45.47N**	**26.35E**		**3.3D**		**¶97viii2895**
BUC	**VIII 22 19 57 58.8**	**45.89N**	**26.33E**		**2.4D**		**¶97viii3279**
BUC	**VIII 22 23 29 56.4**	**45.25N**	**25.56E**		**1.8D**		**¶97viii3303**
ISC	**VIII 24 09 18 38.9**±.50	**45.60N**±.065	**26.5E**±.11	**136**	**3.9b**		**18 0-47**
EIDC	VIII 24 09 18 38.2	45.6N	26.8E	114	3.5b		**¶97viii3510**
NEIC	VIII 24 09 18 39.3	45.62N	26.49E	136			
BUC	VIII 24 09 18 40.6	45.58N	26.51E		4.2D		
BUC	**VIII 26 01 01 01.0**	**45.73N**	**26.84E**		**2.6D**		**¶97viii3764**
ISC	**VIII 27 14 55 14**±1.0	**45.7N**±.27	**26.4E**±.30	**100**			**5 0-1**
BUC	VIII 27 14 55 14.2	45.63N	26.65E		2.8D		**¶97viii4005**
NEIC	VIII 27 14 55 14.3	45.66N	26.45E	100			
NEIC	Poor solution.						
ISC	**VIII 27 20 17 10.9**±.75	**45.96N**±.059	**27.4E**±.13	**97**±11	3.9b		**24 0-37**
EIDC	VIII 27 20 17 09.1	46.2N	26.9E	0	3.7L,3.9b		**¶97viii4033**
NEIC	VIII 27 20 17 11.0	45.96N	27.45E	100			
BUC	VIII 27 20 17 13.0	45.73N	27.33E		3.8D		
BUC	**VIII 28 02 41 27.2**	**45.71N**	**27.22E**		**2.4D**		**¶97viii4076**
ISC	**VIII 28 17 46 14**±1.1	**45.89N**±.079	**27.4E**±.11	**0**			**5 0-1**
BUC	VIII 28 17 46 13.1	45.93N	27.42E		2.7D		**¶97viii4170**
BUC	**VIII 29 01 39 35.2**	**45.62N**	**26.61E**		**2.7D**		**¶97viii4215**
ISC	**VIII 29 09 19 07.9**±.98	**45.4N**±.22	**26.2E**±.25	**150**			**6 0-2**
NEIC	VIII 29 09 19 08.9	45.45N	26.32E	150			**¶97viii4266**
BUC	VIII 29 09 19 10.1	45.50N	26.40E		3.3D		
NEIC	Poor solution.						
ISC	**VIII 30 06 24 21.7**±.87	**45.09N**±.057	**28.0E**±.11	**0**			**7 0-2**
BUC	VIII 30 06 24 22.0	45.08N	28.12E		3.0D		**¶97viii4441**
ISC	**VIII 31 06 32 26.8**±.88	**45.7N**±.21	**26.5E**±.20	**150**			**8 0-2**
NEIC	VIII 31 06 32 27.4	45.63N	26.53E	150			**¶97viii4600**
BUC	VIII 31 06 32 27.6	45.71N	26.61E		3.5D		
NEIC	Single network solution.						
ISC	**VIII 31 20 51 28.0**±.99	**45.5N**±.22	**26.7E**±.16	**100**			**6 0-1**
BUC	VIII 31 20 51 24.1	45.74N	26.66E		3.5D		**¶97viii4705**
NEIC	VIII 31 20 51 28.3	45.54N	26.70E	100			
NEIC	Single network solution.						
ISC	**IX 01 16 28 24**±1.3	**45.6N**±.12	**27.0E**±.14	**32**±19			**6 0-1**
BUC	IX 01 16 28 23.1	45.70N	27.03E		2.4D		**¶97ix0137**
NEIC	IX 01 16 28 24.4	45.60N	27.00E	33			
NEIC	Single network solution.						
BUC	**IX 05 23 55 55.6**	**45.44N**	**26.49E**		**3.3D**		**¶97ix0820**
BUC	**IX 09 11 02 01.2**	**45.11N**	**26.49E**		**2.9D**		**¶97ix1367**
ISC	**IX 11 18 01 01**±1.2	**45.4N**±.14	**27.1E**±.14	**0**			**4 1-1**
BUC	IX 11 18 01 01.1	45.38N	27.04E		2.3D		**¶97ix1717**
ISC	Poorly determined						
BUC	**IX 12 04 31 28.9**	**45.75N**	**26.72E**		**3.5D**		**¶97ix1769**
BUC	**IX 13 22 29 06.2**	**45.20N**	**23.95E**		**2.7D**		**¶97ix2043**
ISC	**IX 15 00 33 25**±1.0	**45.70N**±.082	**27.2E**±.10	**0**			**5 0-1**
BUC	IX 15 00 33 25.2	45.77N	27.29E		2.6D		**¶97ix2181**
ISC	**IX 15 10 39 21**±1.3	**45.39N**±.093	**26.4E**±.12	**0**			**4 0-1**
BUC	IX 15 10 39 21.1	45.38N	26.38E		2.7D		**¶97ix2227**
ISC	Poorly determined						
BUC	**IX 15 16 12 11.0**	**45.76N**	**26.80E**		**2.8D**		**¶97ix2263**
BUC	**IX 16 12 16 06.3**	**46.21N**	**27.94E**		**2.5D**		**¶97ix2382**
ISC	**IX 19 07 21 22**±3.2	**45.9N**±.16	**25.8E**±.12	**12**±20			**8 0-2**
BUC	IX 19 07 21 21.1	45.98N	25.82E		3.4D		**¶97ix2756**
NEIC	IX 19 07 21 22.1	45.92N	25.80E	10			
NEIC	Single network solution.						
BUC	**IX 19 10 44 59.1**	**45.37N**	**25.33E**		**2.2D**		**¶97ix2781**
ISC	**IX 22 18 23 15**±1.0	**45.4N**±.15	**26.6E**±.19	**100**			**6 0-1**
NEIC	IX 22 18 23 09.9	45.42N	26.39E	150			**¶97ix3312**
BUC	IX 22 18 23 13.2	45.52N	26.56E		3.1D		
NEIC	Poor solution.						
ISC	**IX 23 07 13 16**±1.0	**45.5N**±.11	**26.9E**±.11	**0**			**5 0-2**
BUC	IX 23 07 13 15.7	45.47N	26.95E		2.7D		**¶97ix3388**
ISC	**IX 23 13 11 10**±4.5	**44.9N**±.28	**25.9E**±.21	**0**			**4 0-1**
BUC	IX 23 13 11 11.9	45.02N	25.87E		2.4D		**¶97ix3424**
ISC	Poorly determined						
BUC	**IX 25 06 47 54.6**	**45.46N**	**26.47E**		**2.9D**		**¶97ix3695**
BUC	**IX 27 22 28 02.8**	**45.62N**	**26.48E**		**2.8D**		**¶97ix4470**
ISC	**X 01 16 42 58.4**±.44	**45.60N**±.053	**26.38E**±.094	**150**±6.5	**3.8b**		**26 0-65**
NEIC	X 01 16 42 58.6	45.61N	26.38E	150			**¶97x0122**
BUC	X 01 16 42 59.1	45.60N	26.47E		4.0D		
EIDC	X 01 16 42 59.1	45.6N	26.5E	136	3.5b		
BUC	**X 01 19 18 39.0**	**45.95N**	**27.32E**		**2.5D**		**¶97x0143**
BUC	**X 02 19 54 21.2**	**45.42N**	**26.37E**		**3.1D**		**¶97x0336**
BUC	**X 03 08 35 09.1**	**44.96N**	**25.65E**		**3.0D**		**¶97x0428**
BUC	**X 08 10 14 18.9**	**45.27N**	**25.46E**		**2.4D**		**¶97x1390**
BUC	**X 09 10 38 41.6**	**45.36N**	**25.37E**		**2.5D**		**¶97x1572**
ISC	**X 09 20 49 47.0**±.83	**45.5N**±.14	**26.6E**±.15	**100**			**7 0-1**
BUC	X 09 20 49 42.9	45.58N	26.44E		3.6D		**¶97x1641**
NEIC	X 09 20 49 47.4	45.46N	26.54E	100			
NEIC	Single network solution.						
ISC	**X 11 18 59 59.7**±.23	**45.72N**±.023	**26.73E**±.028	**115**±3.3	**4.4b**		**183 0-118**
ISK	X 11 18 59 56.1	45.81N	26.50E	10	4.3D		**¶97x1923**
MOS	X 11 18 59 59.6	45.7N	26.8E	114	4.7b		
BJI	X 11 18 59 59.8	45.80N	26.70E	118	4.8b		
NEIC	X 11 18 59 59.8	45.75N	26.71E	119	4.3b		
BUC	X 11 19 00 00.4	45.77N	26.76E		4.8D		
EIDC	X 11 19 00 01.6	45.9N	26.7E	113	4.1b		
PDG	X 11 19 00 04.4	46.0N	26.0E	120	4.1L		
THE	X 11 19 00 26.6	43.7N	25.8E	130	4.1L		
MOS	Felt I=IV MSK at Kishinev.						
NEIC	Felt at Bucharest. Also felt I=IV MSK at Chisinau, Moldova.						
BUC	**X 13 12 43 57.1**	**44.84N**	**25.14E**		**2.6D**		**¶97x2219**
BUC	**X 14 15 43 11.4**	**45.52N**	**26.37E**		**3.3D**		**¶97x2430**
BUC	**X 16 05 08 29.6**	**45.45N**	**26.78E**		**2.6D**		**¶97x2791**
ISC	**X 18 03 14 46**±1.5	**45.6N**±.14	**27.1E**±.17	**32**±21			**5 0-1**
BUC	X 18 03 14 45.2	45.75N	27.10E		2.5D		**¶97x3094**
NEIC	X 18 03 14 46.4	45.65N	27.06E	33			
ISC	Poorly determined						
NEIC	Single network solution.						
BUC	**X 19 06 04 14.4**	**45.52N**	**26.46E**		**3.2D**		**¶97x3301**
BUC	**X 20 04 25 47.1**	**45.54N**	**26.52E**		**2.7D**		**¶97x3437**
BUC	**X 22 04 38 39.6**	**45.52N**	**26.47E**		**2.8D**		**¶97x3752**
ISC	**X 22 07 48 59.5**±.37	**45.54N**±.043	**26.39E**±.087	**138**±5.1	**3.8b**		**36 0-129**
NEIC	X 22 07 48 59.8	45.52N	26.36E	140			**¶97x3771**
EIDC	X 22 07 49 00.7	45.5N	26.2E	131	3.6b		
BUC	X 22 07 49 01.1	45.49N	26.46E		4.2D		
NEIC	Felt I=III MM in the epicentral area.						
ISC	**X 22 09 24 43**±1.0	**45.7N**±.19	**26.7E**±.27	**130**			**7 0-1**
NEIC	X 22 09 24 43.6	45.72N	26.65E	130			**¶97x3784**
BUC	X 22 09 24 44.9	45.78N	26.76E		3.4D		
NEIC	Poor solution.						
ISC	**X 23 03 07 06**±1.5	**45.3N**±.27	**25.4E**±.14	**35**±22			**6 0-1**
BUC	X 23 03 07 05.4	45.33N	25.44E		2.5D		**¶97x3917**
NEIC	X 23 03 07 06.5	45.29N	25.41E	33			
NEIC	Single network solution.						
BUC	**X 24 09 26 59.6**	**45.30N**	**25.40E**		**2.3D**		**¶97x4140**
BUC	**X 26 14 43 02.4**	**45.52N**	**26.55E**		**2.9D**		**¶97x4478**
ISC	**X 26 15 15 04**±12	**46.0N**±.69	**26.9E**±.29	**126**±90			**6 0-2**
NEIC	X 26 15 15 07.7	45.83N	26.80E	100			**¶97x4484**
BUC	X 26 15 15 11.6	45.40N	26.90E		2.7D		
NEIC	Single network solution.						
ISC	**XI 01 10 12 32**±1.2	**44.48N**±.050	**26.35E**±.071	**19**±17			**27 1-10**
NEIC	XI 01 10 12 31.5	44.43N	26.31E	10			**¶97xi0060**
BUC	XI 01 10 12 32.2	44.50N	26.39E		3.7D		
NEIC	Single network solution.						
ISC	**XI 01 22 15 48**±5.7	**45.5N**±.19	**26.3E**±.21	**138**±57			**9 0-2**
BUC	XI 01 22 15 47.3	45.54N	26.41E		4.0D		**¶97xi0149**
NEIC	XI 01 22 15 52.5	45.42N	26.49E	100			
BUC	**XI 03 12 16 21.6**	**45.29N**	**25.40E**		**2.0D**		**¶97xi0461**
ISC	**XI 04 23 09 17.3**±.93	**45.5N**±.24	**26.7E**±.18	**100**			**6 0-1**
BUC	XI 04 23 09 15.7	45.48N	26.66E		2.9D		**¶97xi0704**
NEIC	XI 04 23 09 17.4	45.50N	26.63E	100			
NEIC	Poor solution.						
BUC	**XI 07 12 34 29.7**	**45.27N**	**25.43E**		**2.8D**		**¶97xi1124**
BUC	**XI 09 02 18 35.1**	**45.58N**	**26.51E**		**2.7D**		**¶97xi1384**
BUC	**XI 09 17 13 31.6**	**45.71N**	**26.74E**		**2.5D**		**¶97xi1476**
ISC	**XI 11 23 06 06**±1.7	**45.7N**±.12	**26.9E**±.10	**81**±20			**16 0-5**
BUC	XI 11 23 06 06.1	45.77N	26.97E		3.6D		**¶97xi1893**
NEIC	XI 11 23 06 07.2	45.69N	26.94E	68			
NEIC	**XI 12 04 20 22.6**	**45.65N**	**27.04E**	**150**			**0-1**
BUC	XI 12 04 20 26.6	45.67N	26.74E		3.4D		**¶97xi1932**
NEIC	Poor solution.						
ISC	**XI 18 11 23 16.3**±.23	**45.68N**±.022	**26.71E**±.028	**125**±3.2	**4.4b**		**194 0-118**
BJI	XI 18 11 23 13.7	45.95N	26.52E	105	4.6b		**¶97xi2952**
NEIC	XI 18 11 23 15.6	45.72N	26.73E	118	4.5b		
MOS	XI 18 11 23 16.1	45.7N	26.7E	122	4.8b		
BUC	XI 18 11 23 16.3	45.78N	26.72E		5.1D		
EIDC	XI 18 11 23 17.6	45.7N	26.6E	119	4.1b		
PDG	XI 18 11 23 25.0	45.7N	25.7E	100	4.2L		
NEIC	Felt I=V MSK in the epicentral area and IV MSK at Bucharest. Felt at Galati, Iasi and Tulcea. Also Felt IV MSK at Chisinau, Moldova.						
MOS	Felt I=IV MSK at Kishinev.						
ISC	**XI 19 15 16 14**±3.7	**45.1N**±.30	**25.17E**±.098	**0**			**5 0-1**
BUC	XI 19 15 16 13.7	45.07N	25.19E		2.4D		**¶97xi3246**
ISC	**XI 21 18 52 43**±1.8	**45.8N**±.44	**26.4E**±.26	**150**			**7 0-1**
NEIC	XI 21 18 52 44.8	45.63N	26.41E	150			**¶97xi3716**
BUC	XI 21 18 52 48.1	45.60N	26.47E		3.1D		
NEIC	Poor solution.						
BUC	**XI 25 11 51 27.0**	**45.34N**	**25.38E**		**2.8D**		**¶97xi4502**
ISC	**XI 25 23 44 19.6**±.83	**45.80N**±.052	**27.9E**±.13	**59**±11	3.4b		**25 0-24**
NEIC	XI 25 23 44 18.7	45.78N	27.96E	64			**¶97xi4597**
BUC	XI 25 23 44 20.3	45.69N	27.71E		4.0D		
EIDC	XI 25 23 44 24.3	46.4N	27.0E	0	4.0L,3.5b		
NEIC	Less reliable solution.						
ISC	**XI 27 02 15 19**±1.2	**45.55N**±.087	**26.5E**±.11	**0**			**5 0-1**
BUC	XI 27 02 15 08.2	45.53N	26.52E		3.1D		**¶97xi4780**
BUC	**XII 05 14 09 45.5**	**45.27N**	**25.43E**		**2.4D**		**¶97xii0896**
ISC	**XII 05 19 13 04**±1.3	**45.5N**±.10	**26.4E**±.12	**0**			**4 0-0**
BUC	XII 05 19 13 04.3	45.54N	26.38E		2.7D		**¶97xii1040**
ISC	Poorly determined						
BUC	**XII 06 08 32 25.2**	**45.97N**	**26.84E**		**2.3D**		**¶97xii1311**
ISC	**XII 06 12 17 24.4**±.43	**45.64N**±.032	**27.01E**±.062	**41**±7.4	**3.9b**		**59 0-48**
NEIC	XII 06 12 17 23.6	45.68N	27.09E	33	4.2b		**¶97xii1397**
EIDC	XII 06 12 17 25.5±2.44	45.6N	27.0E	31±19.1	3.8b,3.7L		
BUC	XII 06 12 17 25.6	45.65N	27.01E		4.1D		
NEIC	Felt at Focsani.						
EIDC	Error ellipse is semi−major=29.1km semi−minor=12.5km azimuth=131Multiple, same az						
ISC	**XII 06 12 34 35**±1.1	**45.64N**±.067	**27.0E**±.12	**0**			**5 0-1**
BUC	XII 06 12 34 34.5	45.67N	27.07E		2.7D		**¶97xii1403**
ISC	**XII 06 13 16 36**±1.2	**45.62N**±.088	**26.9E**±.12	**0**			**4 0-1**
BUC	XII 06 13 16 34.9	45.66N	27.04E		2.4D		**¶97xii1420**
ISC	Poorly determined						
BUC	**XII 06 13 42 42.8**	**45.67N**	**27.02E**		**2.0D**		**¶97xii1432**
BUC	**XII 06 13 51 26.3**	**45.65N**	**27.03E**		**2.0D**		**¶97xii1437**
BUC	**XII 06 14 47 26.9**	**45.67N**	**27.24E**		**2.2D**		**¶97xii1449**
BUC	**XII 06 17 06 17.2**	**45.63N**	**27.10E**		**2.0D**		**¶97xii1474**
BUC	**XII 06 19 53 38.1**	**45.70N**	**27.22E**		**1.9D**		**¶97xii1511**
BUC	**XII 06 19 56 19.2**	**45.69N**	**27.19E**		**2.0D**		**¶97xii1512**
BUC	**XII 06 20 31 30.1**	**45.73N**	**27.29E**		**2.0D**		**¶97xii1516**
ISC	**XII 07 19 07 34**±1.3	**45.72N**±.087	**27.1E**±.14	**0**			**4 0-1**
BUC	XII 07 19 07 33.3	45.75N	27.14E		2.4D		**¶97xii1769**
ISC	Poorly determined						
ISC	**XII 07 23 36 16**±1.1	**45.6N**±.14	**26.4E**±.28	**138**			**6 0-3**
BUC	XII 07 23 36 15.2	45.61N	26.52E		3.9D		**¶97xii1813**
NEIC	XII 07 23 36 17.0	45.55N	26.50E	138			
NEIC	Poor solution.						
ISC	**XII 08 07 00 33.4**±.92	**45.65N**±.072	**27.1E**±.12	**19**±10			**16 0-5**
BUC	XII 08 07 00 33.2	45.75N	27.14E		3.4D		**¶97xii1887**
NEIC	XII 08 07 00 33.8	45.65N	27.12E	24			
NEIC	Less reliable solution.						
ISC	**XII 08 07 47 51**±1.3	**45.69N**±.085	**27.0E**±.14	**0**			**4 0-1**
BUC	XII 08 07 47 50.2	45.74N	27.13E		2.5D		**¶97xii1888**
ISC	Poorly determined						
BUC	**XII 08 08 47 18.6**	**45.73N**	**27.06E**		**1.8D**		**¶97xii1896**
BUC	**XII 08 16 24 46.0**	**45.89N**	**26.80E**		**2.6D**		**¶97xii1959**
BUC	**XII 09 23 42 20.9**	**45.66N**	**26.28E**		**2.4D**		**¶97xii2258**
ISC	**XII 13 14 55 28**±1.3	**45.5N**±.15	**27.1E**±.15	**0**			**4 0-1**
BUC	XII 13 14 55 28.1	45.56N	27.10E		2.3D		**¶97xii2959**
ISC	Poorly determined						
ISC	**XII 13 15 22 16**±1.0	**45.51N**±.093	**27.0E**±.12	**10**			**5 0-1**
BUC	XII 13 15 22 16.0	45.56N	27.11E		2.9D		**¶97xii2964**
NEIC	XII 13 15 22 17.0	45.51N	27.05E	10			

NEIC Single network solution.
BUC XII 14 03 27 16.0 46.27N 27.74E 2.6D ¶97xii3075
ISC XII 17 02 48 10±3.3 45.8N±.21 26.6E±.21 66±39 6 0-1
BUC XII 17 02 48 09.1 45.73N 26.69E 3.0D ¶97xii3541
NEIC XII 17 02 48 11.4 45.73N 26.60E 60
NEIC Single network solution.
ISC XII 18 23 21 20.7±.32 45.58N±.035 26.14E±.078 135±4.4 3.9b 51 0-65
NEIC XII 18 23 21 20.4 45.59N 26.27E 144 3.9b ¶97xii3853
BUC XII 18 23 21 21.8 45.47N 26.33E 4.6D
EIDC XII 18 23 21 21.8±.82 45.6N 26.1E 133±7.2 3.5b
EIDC Error ellipse is semi−major=24.5km semi−minor=17.1km azimuth=102
BUC XII 23 11 58 46.8 45.53N 27.51E 2.0D ¶97xii4595
BUC XII 26 11 31 23.0 45.73N 26.73E 2.7D ¶97xii5112
BUC XII 26 13 52 56.6 45.77N 26.70E 2.3D ¶97xii5136
BUC XII 28 00 30 24.7 45.67N 26.68E 2.7D ¶97xii5366
BUC XII 28 01 04 01.4 45.55N 26.56E 3.1D ¶97xii5372
ISC XII 28 03 04 31±1.1 45.55N±.084 26.5E±.11 0 6 0-1
BUC XII 28 03 04 20.3 45.57N 26.53E 3.1D ¶97xii5384
ISC XII 30 04 39 29.7±.21 45.56N±.021 26.34E±.024 139±2.9 4.5b 285 0-143
NEIC XII 30 04 39 29.0 45.58N 26.36E 135 4.7b ¶97xii5682
BJI XII 30 04 39 29.3 46.07N 25.51E 164 4.7b
EIDC XII 30 04 39 30.6±.51 45.6N 26.1E 137±4.6 4.2b
BUC XII 30 04 39 30.9 45.49N 26.33E 5.2D
PDG XII 30 04 39 31.5 46.3N 25.7E 100 4.2L
NEIC Felt in central Romania and at Bucharest. Felt I=V MSK at Cahul and IV MSK at Chisinau, Moldova. Also felt III MSK at Izmayil and Odesa, Ukraine.
EIDC Error ellipse is semi−major=12.7km semi−minor=10.4km azimuth=115

(359) Bulgaria.

ISC VII 01 04 14 00.3±.72 42.03N±.047 23.45E±.070 8 15 0-2
SOF VII 01 04 14 00.3 42.02N 23.41E 8 2.7D ¶97vii0030
THE VII 01 04 14 02.8 41.9N 23.4E 3 2.7L
ISC VII 01 04 27 43.4±.42 42.00N±.032 23.48E±.053 0 31 0-5
SOF VII 01 04 27 43.5 42.01N 23.43E 0 3.4D ¶97vii0031
NEIC VII 01 04 27 45.1 42.01N 23.55E 10
THE VII 01 04 27 48.3 41.8N 23.4E 1 3.0L
NEIC Single network solution.
ISC VII 01 04 50 33.5±.68 42.02N±.059 23.44E±.059 5 10 0-2
SOF VII 01 04 50 33.9 42.04N 23.45E 5 3.1D ¶97vii0033
ISC VII 02 18 57 05±1.6 42.05N±.087 23.5E±.18 12 4 0-1
SOF VII 02 18 57 04.8 42.03N 23.45E 12 2.5D ¶97vii0286
ISC Poorly determined
ISC VII 02 19 06 18±1.8 42.0N±.11 23.5E±.23 22 4 0-1
SOF VII 02 19 06 17.3 42.01N 23.35E 22 2.5D ¶97vii0288
ISC Poorly determined
ISC VII 02 23 43 29.3±.73 42.01N±.047 23.48E±.079 3 13 0-2
SOF VII 02 23 43 29.6 42.01N 23.44E 3 2.8D ¶97vii0323
THE VII 02 23 43 31.3 42.0N 23.5E 3 2.7L
ISC VII 04 08 36 54.4±.52 42.02N±.040 23.43E±.052 10 22 0-2
NEIC VII 04 08 36 53.9 42.04N 23.40E 10 ¶97vii0527
SOF VII 04 08 36 54.4 42.03N 23.44E 0 3.0D
THE VII 04 08 36 57.7 41.9N 23.3E 0 3.0L
NEIC Single network solution.
ISC VII 07 09 37 37±1.4 42.01N±.084 23.4E±.16 14 4 0-1
SOF VII 07 09 37 36.9 42.03N 23.44E 14 3.0D ¶97vii1023
ISC Poorly determined
ISC VII 09 01 21 47.9±.77 42.02N±.056 23.48E±.062 2±11 12 0-2
SOF VII 09 01 21 48.5 42.03N 23.46E 3 3.2D ¶97vii1266
THE VII 25 12 43 29.9 42.4N 24.1E 10 2.4L ¶97vii3830
ISC VIII 01 19 38 16.8±.73 42.26N±.054 24.89E±.072 0 9 0-1
¶97viii0106
ISC VIII 07 14 16 24±3.8 42.1N±.31 24.3E±.15 10 6 1-2
THE VIII 07 14 16 20.5 42.5N 24.3E 10 2.2L ¶97viii0951
ISC VIII 07 22 38 13.3±.69 42.17N±.055 24.11E±.052 10 17 0-2
NEIC VIII 07 22 38 13.2 42.12N 24.08E 10 ¶97viii1011
SOF VIII 07 22 38 13.5 42.13N 24.10E 10 3.1D
THE VIII 07 22 38 14.5 42.2N 24.0E 3 3.0L
NEIC Single network solution.
ISC VIII 08 10 36 16.6±.34 43.08N±.029 27.47E±.047 10 4.2b 50 1-46
EIDC VIII 08 10 36 07.5 42.9N 28.7E 0 3.3L,3.6b ¶97viii1096
NEIC VIII 08 10 36 09.3 42.50N 28.69E 86
ISK VIII 08 10 36 14.8 43.13N 27.42E 6 3.7D
SOF VIII 08 10 36 16.3 43.14N 27.44E 10 3.7D
BUC VIII 08 10 36 26.5 43.82N 27.41E 3.8D
NEIC Less reliable solution.
NEIC Felt at Provadiya, Bulgaria.
ISC VIII 13 10 44 48.0±.77 42.65N±.055 23.07E±.079 6 18 0-4
SOF VIII 13 10 44 47.4 42.69N 23.09E 6 3.3D ¶97viii1893
ISC VIII 16 04 52 45.1±.59 43.34N±.047 27.64E±.083 10 19 1-4
NEIC VIII 16 04 52 44.6 43.27N 27.79E 10 ¶97viii2315
SOF VIII 16 04 52 45.7 43.37N 27.70E 31 3.1D
BUC VIII 16 04 52 45.9 43.42N 27.85E 3.7D
NEIC Single network solution.
ISC VIII 19 12 40 45.3±.85 42.55N±.064 24.15E±.067 0 10 1-2
SOF VIII 19 12 40 46.2 42.53N 24.12E 0 2.5D ¶97viii2810
ISC VIII 19 14 02 32.9±.61 42.22N±.047 25.10E±.069 12 17 0-3
SOF VIII 19 14 02 32.6 42.18N 25.07E 12 3.0D ¶97viii2817
THE VIII 19 14 02 33.5 42.3N 25.2E 10 3.0L
ISC VIII 25 15 16 46±2.8 42.9N±.17 23.3E±.17 0 8 0-2
¶97viii3706
ISC VIII 29 13 30 33.7±.81 42.01N±.053 23.37E±.074 11 14 0-2
SOF VIII 29 13 30 33.6 42.03N 23.42E 11 2.5D ¶97viii4315
THE VIII 29 13 30 37.2 41.9N 23.3E 2 2.8L
ISC VIII 29 23 04 53±1.0 42.34N±.052 23.42E±.066 1±9.9 17 0-2
SOF VIII 29 23 04 53.7 42.38N 23.38E 2 3.1D ¶97viii4390
THE VIII 29 23 04 54.8 42.3N 23.5E 1 3.1L
ISC IX 10 18 40 43±1.1 42.42N±.087 23.68E±.097 2±20 6 0-2
SOF IX 10 18 40 43.2 42.43N 23.66E 6 2.4D ¶97ix1560
ISC IX 11 15 12 41.0±.62 42.04N±.051 24.71E±.061 0 11 0-2
SOF IX 11 15 12 41.8 42.01N 24.72E 0 2.8D ¶97ix1693
ISC IX 13 09 38 32±2.3 43.0N±.17 25.6E±.11 6 8 1-2
SOF IX 13 09 38 39.1 43.05N 25.60E 6 2.5D ¶97ix1961
SOF X 06 11 44 11.2 42.58N 22.95E 5 2.5D ¶97x1037
ISC XI 04 10 03 05±2.2 42.7N±.20 23.4E±.22 22 4 0-2
SOF XI 04 10 03 05.2 42.61N 23.38E 22 2.5D ¶97xi0612
ISC Poorly determined
ISC XI 04 14 03 12±2.8 42.9N±.17 23.5E±.16 7 7 0-2
SOF XI 04 14 03 14.8 42.82N 23.48E 7 2.5D ¶97xi0650
ISC XI 09 00 54 13±1.1 42.14N±.060 23.2E±.12 7±13 10 0-2
SOF XI 09 00 54 16.7 41.96N 23.28E 7 2.4D ¶97xi1374
THE XI 09 00 54 17.8 41.9N 23.2E 10 2.3L
ISC XI 11 05 28 47.5±.97 42.34N±.058 23.20E±.088 5±10 13 0-2
SOF XI 11 05 28 46.9 42.38N 23.16E 14 3.0D ¶97xi1741
THE XI 11 05 28 48.4 42.5N 23.1E 26 2.9L
ISC XI 11 05 54 09±1.0 42.34N±.065 23.2E±.10 6±11 13 0-2
SOF XI 11 05 54 08.4 42.37N 23.17E 15 2.9D ¶97xi1746
THE XI 11 05 54 10.2 42.5N 23.2E 10 2.9L
ISC XI 14 14 44 22±1.5 42.02N±.091 24.8E±.20 10±13 5 0-1
SOF XI 14 14 44 22.0 42.02N 24.73E 0 2.4D ¶97xi2301
ISC Poorly determined
ISC XI 15 09 25 37.8±.87 42.03N±.053 23.5E±.13 10±14 9 0-2
SOF XI 15 09 25 38.7 42.05N 23.47E 0 3.0D ¶97xi2451
THE XI 15 09 25 41.1 42.0N 23.5E 19 2.7L
ISC XI 15 09 34 13.4±.99 42.03N±.054 23.4E±.15 15 6 0-1
SOF XI 15 09 34 14.1 42.04N 23.43E 0 2.7D ¶97xi2452
THE XI 15 09 34 16.4 42.0N 23.4E 15 2.4L
ISC XI 15 12 48 52.5±.43 42.00N±.032 23.49E±.056 10 30 0-20
SOF XI 15 12 48 52.0 42.02N 23.40E 22 3.4D ¶97xi2475
NEIC XI 15 12 48 54.4 42.21N 23.13E 10
THE XI 15 12 48 55.3 42.0N 23.4E 28 3.5L
ATH XI 15 12 48 56.2 41.61N 23.53E 5 3.6D
NEIC Less reliable solution.
ISC XI 15 12 51 57.2±.97 42.02N±.054 23.5E±.11 14±19 9 0-2
SOF XI 15 12 51 58.0 42.03N 23.48E 0 2.6D ¶97xi2476
THE XI 15 12 52 00.1 42.0N 23.4E 19 2.7L
ISC XI 16 15 23 28.8±.79 42.02N±.052 23.46E±.093 7±15 11 0-2
SOF XI 16 15 23 29.2 42.04N 23.45E 14 2.7D ¶97xi2662
THE XI 16 15 23 31.0 41.9N 23.5E 0 2.8L
ISC XI 19 00 09 06±1.2 42.01N±.062 23.4E±.12 7±11 12 0-2
THE XI 19 00 09 09.9 41.8N 23.4E 0 2.3L ¶97xi3090
ISC MD2.5 (SOF)
ISC XI 19 09 32 50±1.5 42.27N±.073 25.0E±.17 5 7 0-1
SOF XI 19 09 32 51.9 42.26N 24.88E 5 2.4D ¶97xi3184
ISC XI 19 21 09 15.7±.69 42.03N±.047 23.44E±.072 10 15 0-2
NEIC XI 19 21 09 15.6 42.06N 23.45E 10 ¶97xi3315
SOF XI 19 21 09 15.8 42.04N 23.45E 10 2.9D
THE XI 19 21 09 18.0 41.9N 23.5E 0 2.8L
ISC XI 20 16 44 58.7±.77 42.02N±.052 23.48E±.076 3±11 14 0-2
SOF XI 20 16 44 58.9 42.03N 23.44E 11 2.6D ¶97xi3498
THE XI 20 16 45 00.0 42.0N 23.5E 0 3.1L
ISC XI 20 17 18 38.6±.69 42.05N±.055 23.43E±.087 27 17 0-2
SOF XI 20 17 18 37.7 42.03N 23.40E 27 2.8D ¶97xi3504
THE XI 20 17 18 41.7 41.9N 23.4E 0 3.0L
ISC XI 20 18 39 02.4±.67 42.04N±.044 23.51E±.073 10 13 0-2
SOF XI 20 18 39 03.3 42.04N 23.45E 10 2.5D ¶97xi3515
THE XI 20 18 39 06.2 41.9N 23.4E 0 2.6L
ISC XI 20 21 25 10±1.0 42.04N±.069 23.5E±.10 0 5 0-1
¶97xi3535
ISC XI 24 22 33 50.5±.84 42.45N±.061 25.83E±.081 7 8 1-2
SOF XI 24 22 33 51.4 42.43N 25.86E 7 2.3D ¶97xi4397
ISC XI 25 00 31 50.0±.65 42.01N±.027 23.48E±.046 6±5.6 3.9b 48 0-55
SOF XI 25 00 31 50.3 42.04N 23.45E 9 3.5D ¶97xi4416
EIDC XI 25 00 31 50.7 42.1N 23.5E 0 3.8b,3.5L
NEIC XI 25 00 31 50.8 42.03N 23.45E 10
THE XI 25 00 31 53.5 41.9N 23.3E 0 3.4L
ATH XI 25 00 31 53.6 41.62N 23.52E 5 3.7D
ISC XI 25 00 35 21.0±.86 42.02N±.061 23.42E±.087 11 16 0-2
SOF XI 25 00 35 21.2 42.04N 23.44E 11 3.0D ¶97xi4418
THE XI 25 00 35 24.0 41.9N 23.3E 0 3.6L
ISC XI 26 08 46 46.9±.55 42.04N±.040 23.46E±.055 10 23 0-3
SOF XI 26 08 46 47.3 42.04N 23.43E 11 3.5D ¶97xi4659
NEIC XI 26 08 46 47.6 42.03N 23.45E 10
THE XI 26 08 46 49.5 41.9N 23.4E 0 3.5L
ISC XII 03 21 37 25.6±.96 42.02N±.067 23.43E±.078 4±10 15 0-2
NEIC XII 03 21 37 25.9 42.05N 23.40E 10 ¶97xii0506
THE XII 03 21 37 30.9 41.8N 23.4E 0 3.5L
ISC XII 04 20 44 26.4±.77 42.00N±.042 23.47E±.059 2±8.2 22 0-2
THE XII 04 20 44 26.8 42.1N 23.5E 10 3.0L ¶97xii0688
SOF XII 04 20 44 27.2 42.01N 23.47E 2 2.7D
ISC XII 07 06 44 18.3±.64 42.01N±.045 23.41E±.072 10 16 0-2
NEIC XII 07 06 44 18.6 42.05N 23.40E 10 ¶97xii1637
SOF XII 07 06 44 18.8 42.03N 23.45E 1 2.4D
THE XII 07 06 44 21.1 41.9N 23.3E 0 2.8L
ISC XII 13 19 58 59±1.1 42.82N±.089 23.83E±.074 10 19 0-3
NEIC XII 13 19 58 56.2 42.98N 23.75E 10 ¶97xii3007
SOF XII 13 19 58 58.2 42.82N 23.76E 15 2.9D
THE XII 13 19 59 02.6 42.7N 24.0E 25 3.1L
THE XII 19 11 43 14.5 42.5N 23.2E 0 2.4L ¶97xii3946

(360) Black Sea.

ISC X 09 07 10 31±1.4 42.55N±.038 36.26E±.041 2±10 4.3b 87 1-72
EIDC X 09 07 10 32.2 42.4N 36.3E 0 4.2b,4.6L ¶97x1547
MOS X 09 07 10 32.4 42.6N 36.2E 10 4.0b
NEIC X 09 07 10 32.6 42.55N 36.22E 10 4.3b
ISK X 09 07 10 33.4 42.59N 36.28E 10 4.0D
ISC XII 25 22 44 26±4.6 43.9N±.58 37.2E±.39 33 3.5b 6 19-72
EIDC XII 25 22 44 17.0±6.01 43.0N 36.9E 0 3.5b,3.1L ¶97xii5000
EIDC Error ellipse is semi−major=111.7km semi−minor=45.1km azimuth=13

(361) Crimea region.

ISC X 19 01 56 29±3.8 44.45N±.040 34.21E±.065 12±27 3.7b 56 3-71
ISK X 19 01 56 29.5 44.33N 34.14E 9 3.9D ¶97x3271
EIDC X 19 01 56 37.9 44.7N 34.1E 41 4.3L,3.4b
NEIC X 19 01 56 38.2 44.83N 33.78E 58 3.7b
NEIC Less reliable solution.

(362) Western Caucasus.

ISC IX 09 17 34 52.6±.65 44.58N±.081 42.0E±.11 10 3.3b 13 1-26
MOS IX 09 17 34 54.3 44.3N 41.9E 10 4.0b ¶97ix1416
EIDC IX 09 17 35 01.6 45.2N 41.2E 0 3.4b,3.9L
MOS Felt I=III−IV MSK at Cherkessk, Nevinnomyssk.

(363) Greece-Bulgaria border region.

THE VII 02 00 26 35.2 41.9N 23.4E 5 2.5L ¶97vii0160
SOF VII 02 00 26 32.0 42.04N 23.44E 20 2.4D

Agency	mo	Origin Time d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**02**	**22**	**06**	**30**±9.4	**41.4N**±.56	**23.3E**±.22	**3**		**5**	**0-1**
THE	VII	02	22	06	24.6	41.8N	23.5E	3	2.3L		¶97vii0306
ISC	**VII**	**03**	**18**	**26**	**43.6**±.80	**42.00N**±.048	**23.46E**±.069	**2**±10		**14**	**1-2**
THE	VII	03	18	26	46.0	42.0N	23.4E	7	3.0L		¶97vii0436
ISC	**VII**	**06**	**15**	**24**	**54**±1.8	**41.95N**±.071	**23.1E**±.19	**5**		**5**	**0-1**
SOF	VII	06	15	24	52.7	41.91N	22.96E	5	2.5D		¶97vii0898
ISC	**VII**	**14**	**13**	**19**	**18**±1.6	**41.1N**±.15	**24.9E**±.10	**17**		**5**	**1-1**
THE	VII	14	13	19	18.3	41.0N	24.9E	17	2.6L		¶97vii2134
ISC	**VII**	**14**	**16**	**13**	**35.7**±.69	**41.52N**±.042	**24.01E**±.050	**1**±8.5		**22**	**0-3**
SOF	VII	14	16	13	36.3	41.59N	23.98E	0	3.0D		¶97vii2172
THE	VII	14	16	13	38.4	41.5N	24.0E	10	3.0L		
ISC	**VII**	**16**	**12**	**31**	**05**±3.8	**41.1N**±.23	**23.6E**±.26	**5**		**4**	**0-1**
THE	VII	16	12	31	05.7	41.2N	23.6E	5	1.9L		¶97vii2445
ISC	Poorly determined										
ISC	**VII**	**17**	**03**	**06**	**58.5**±.40	**41.66N**±.040	**23.72E**±.057	**35**		**32**	**0-5**
ATH	VII	17	03	06	51.6	41.93N	23.00E	35	3.4D		¶97vii2538
SOF	VII	17	03	06	55.7	41.77N	23.68E	5	3.3D		
THE	VII	17	03	06	59.3	41.6N	23.6E	10	2.9L		
ISC	**VII**	**17**	**13**	**30**	**02**±1.2	**41.77N**±.075	**23.7E**±.12	**12**±13		**6**	**0-1**
SOF	VII	17	13	30	01.8	41.77N	23.68E	0	2.5D		¶97vii2601
ISC	**VII**	**18**	**04**	**31**	**18.4**±.82	**41.77N**±.054	**23.64E**±.084	**10**±10		**13**	**0-2**
SOF	VII	18	04	31	18.2	41.76N	23.63E	16	2.6D		¶97vii2691
NEIC	VII	18	04	31	18.8	41.76N	23.68E	10			
THE	VII	18	04	31	21.8	41.7N	23.6E	12	2.7L		
NEIC	Less reliable solution.										
ISC	**VII**	**30**	**08**	**24**	**33**±1.3	**41.09N**±.095	**23.6E**±.12	**0**		**4**	**0-2**
THE	VII	30	08	24	33.7	41.1N	23.6E	0	1.8L		¶97vii4557
ISC	Poorly determined										
ISC	**VIII**	**03**	**07**	**31**	**36**±1.2	**41.96N**±.064	**23.0E**±.12	**11**±11		**10**	**0-2**
THE	VIII	03	07	31	36.0	42.0N	23.0E	4	2.6L		¶97viii0329
SOF	VIII	03	07	31	36.2	41.99N	23.04E	12	2.7D		
ISC	**VIII**	**05**	**19**	**34**	**01.6**±.61	**41.79N**±.034	**23.43E**±.051	**4**±6.7		**30**	**0-5**
SOF	VIII	05	19	34	02.5	41.84N	23.48E	9	3.3D		¶97viii0700
ATH	VIII	05	19	34	06.5	41.63N	23.67E	5	3.3D		
THE	VIII	05	19	34	07.0	41.6N	23.3E	22	3.2L		
ISC	**VIII**	**05**	**19**	**50**	**27.3**±.71	**41.78N**±.041	**23.48E**±.051	**1**±7.7		**20**	**0-2**
SOF	VIII	05	19	50	27.7	41.86N	23.52E	8	3.2D		¶97viii0702
THE	VIII	05	19	50	28.0	41.8N	23.5E	3	3.1L		
ISC	**VIII**	**14**	**08**	**00**	**51**±2.3	**41.4N**±.17	**26.5E**±.19	**12**		**4**	**1-1**
ISK	VIII	14	08	00	50.9	41.40N	26.49E	12	2.8D		¶97viii2025
ISC	Poorly determined										
ISC	**VIII**	**14**	**12**	**11**	**19**±1.7	**41.2N**±.12	**23.39E**±.099	**2**±18		**8**	**0-2**
THE	VIII	14	12	11	19.0	41.3N	23.4E	1	2.2L		¶97viii2055
ISC	**VIII**	**15**	**14**	**24**	**50.2**±.93	**41.95N**±.054	**23.2E**±.10	**2**		**13**	**1-2**
THE	VIII	15	14	24	55.6	41.7N	23.1E	2	2.6L		¶97viii2227
ISC	**VIII**	**23**	**08**	**34**	**15**±4.7	**41.1N**±.27	**23.6E**±.28	**1**		**4**	**0-1**
THE	VIII	23	08	34	15.5	41.1N	23.6E	1	1.8L		¶97viii3370
ISC	Poorly determined										
ISC	**VIII**	**27**	**17**	**39**	**20.8**±.76	**41.24N**±.046	**23.65E**±.087	**11**±10		**12**	**0-1**
THE	VIII	27	17	39	22.1	41.2N	23.6E	13	2.3L		¶97viii4016
ISC	**VIII**	**27**	**17**	**41**	**12.4**±.63	**41.23N**±.043	**23.64E**±.074	**12**±9.1		**13**	**0-1**
THE	VIII	27	17	41	14.2	41.2N	23.6E	13	2.2L		¶97viii4017
ISC	**IX**	**01**	**21**	**11**	**51.0**±.85	**41.93N**±.055	**23.25E**±.073	**5**		**10**	**0-2**
SOF	IX	01	21	11	51.8	42.00N	23.21E	5	2.9D		¶97ix0165
THE	IX	01	21	11	59.3	41.4N	22.9E	39	2.4L		
ISC	**IX**	**06**	**04**	**04**	**09.5**±.69	**41.12N**±.049	**23.83E**±.088	**10**		**10**	**0-2**
THE	IX	06	04	04	09.6	41.2N	23.9E	10	2.3L		¶97ix0855
ISC	**IX**	**09**	**17**	**14**	**19**±1.1	**41.07N**±.085	**23.29E**±.079	**0**		**6**	**0-1**
THE	IX	09	17	14	19.3	41.1N	23.3E	0	1.9L		¶97ix1413
ISC	**IX**	**10**	**09**	**41**	**18**±4.2	**41.2N**±.23	**23.6E**±.22	**0**		**5**	**0-1**
THE	IX	10	09	41	19.0	41.2N	23.6E	0	2.2L		¶97ix1508
ISC	**IX**	**22**	**07**	**07**	**17.5**±.50	**41.22N**±.034	**23.29E**±.043	**6**±6.9		**24**	**0-3**
ATH	IX	22	07	07	18.6	41.25N	23.30E	2	3.2D		¶97ix3238
THE	IX	22	07	07	19.0	41.2N	23.2E	10	3.1L		
SOF	IX	22	07	07	19.7	41.33N	23.29E	14	3.6D		
ISC	**X**	**03**	**00**	**20**	**19.3**±.54	**42.00N**±.041	**23.44E**±.055	**10**		**23**	**0-3**
SOF	X	03	00	20	19.0	42.05N	23.47E	0	3.1D		¶97x0362
NEIC	X	03	00	20	19.2	42.03N	23.44E	10			
THE	X	03	00	20	22.1	41.9N	23.3E	1	3.2L		
NEIC	Single network solution.										
ISC	**X**	**14**	**19**	**33**	**29**±1.7	**41.1N**±.13	**23.2E**±.11	**5**		**4**	**0-1**
THE	X	14	19	33	29.3	41.1N	23.2E	5	1.6L		¶97x2477
ISC	Poorly determined										
ISC	**X**	**14**	**21**	**45**	**02.5**±.75	**41.11N**±.066	**24.70E**±.079	**33**		**15**	**1-2**
THE	X	14	21	45	02.8	41.1N	24.7E	8	2.6L		¶97x2502
ISC	**X**	**19**	**19**	**28**	**30.2**±.75	**41.43N**±.059	**24.90E**±.060	**7**		**14**	**0-2**
SOF	X	19	19	28	30.8	41.47N	24.90E	7	2.4D		¶97x3384
THE	X	19	19	28	33.6	40.8N	24.8E	6	2.5L		
ISC	**X**	**20**	**23**	**08**	**19.9**±.71	**41.37N**±.052	**25.29E**±.067	**3**		**13**	**0-2**
THE	X	20	23	08	22.8	41.2N	25.2E	3	2.3L		¶97x3568
ISC	**X**	**26**	**12**	**34**	**08**±1.8	**41.2N**±.13	**23.21E**±.082	**8**±16		**8**	**0-1**
THE	X	26	12	34	08.6	41.2N	23.2E	8	1.7L		¶97x4459
ISC	**X**	**29**	**04**	**08**	**17.0**±.71	**41.99N**±.036	**23.50E**±.048	**2**±6.5		**38**	**0-20**
NEIC	X	29	04	08	17.7	42.00N	23.49E	10			¶97x4849
THE	X	29	04	08	18.4	42.0N	23.5E	1	3.5L		
ATH	X	29	04	08	19.1	41.76N	23.51E	5	3.5D		
ISC	**XI**	**01**	**13**	**17**	**13**±3.7	**41.0N**±.18	**23.9E**±.30	**10**		**4**	**0-1**
THE	XI	01	13	17	13.0	41.1N	24.0E	10	2.1L		¶97xi0083
ISC	Poorly determined										
ISC	**XI**	**03**	**08**	**59**	**54**±8.3	**42.0N**±.45	**23.6E**±.26	**0**		**7**	**1-2**
THE	XI	03	08	59	56.3	41.9N	23.5E	0	2.6L		¶97xi0443
ISC	**XI**	**10**	**01**	**48**	**07**±1.1	**41.97N**±.073	**23.2E**±.12	**12**±12		**7**	**0-1**
SOF	XI	10	01	48	06.4	41.97N	23.21E	14	2.7D		¶97xi1544
ISC	**XI**	**14**	**08**	**11**	**54**±1.7	**41.2N**±.13	**23.13E**±.097	**0**		**5**	**0-1**
THE	XI	14	08	11	54.1	41.2N	23.1E	0	1.8L		¶97xi2259
ISC	**XI**	**15**	**17**	**56**	**39**±7.9	**41.8N**±.45	**23.4E**±.23	**15**		**6**	**1-1**
SOF	XI	15	17	56	34.7	42.01N	23.40E	15	2.4D		¶97xi2513
THE	XI	15	17	56	37.4	41.9N	23.5E	0	2.5L		
ISC	**XI**	**18**	**22**	**55**	**06.1**±.57	**42.00N**±.030	**23.49E**±.052	**4**±6.1		**31**	**0-5**
SOF	XI	18	22	55	06.4	42.04N	23.45E	13	3.5D		¶97xi3078
NEIC	XI	18	22	55	06.8	42.01N	23.47E	10			
THE	XI	18	22	55	09.3	41.9N	23.3E	0	3.3L		
ISC	**XI**	**21**	**19**	**39**	**10**±3.9	**41.8N**±.21	**23.4E**±.13	**5**±17		**9**	**1-2**
SOF	XI	21	19	39	07.7	42.04N	23.42E	6			¶97xi3723
THE	XI	21	19	39	10.6	41.9N	23.4E	0	2.7L		
THE	**XI**	**25**	**14**	**25**	**52.2**	**41.9N**	**23.4E**	**20**	**2.4L**		¶97xi4534
ISC	**XI**	**27**	**17**	**35**	**49**±4.6	**41.1N**±.25	**23.8E**±.33	**14**±21		**5**	**0-1**
THE	XI	27	17	35	50.3	41.1N	23.8E	13	2.0L		¶97xi4909
ISC	Poorly determined										
ISC	**XII**	**02**	**08**	**26**	**15**±9.1	**41.2N**±.43	**24.0E**±.51	**11**±20		**6**	**0-1**
THE	XII	02	08	26	16.7	41.3N	23.9E	15	2.3L		¶97xii0215
THE	**XII**	**03**	**18**	**52**	**01.6**	**41.8N**	**23.0E**	**0**	**2.3L**		¶97xii0480
ISC	**XII**	**04**	**20**	**41**	**10.8**±.87	**41.98N**±.057	**23.46E**±.079	**10**		**11**	**0-2**
NEIC	XII	04	20	41	11.2	42.04N	23.45E	10			¶97xii0687
SOF	XII	04	20	41	11.8	42.02N	23.47E	2	2.4D		
THE	XII	04	20	41	13.3	41.9N	23.3E	10	2.5L		
NEIC	Less reliable solution.										
ISC	**XII**	**07**	**18**	**40**	**20**±1.1	**41.96N**±.066	**23.1E**±.13	**13**±9.2		**11**	**0-2**
NEIC	XII	07	18	40	20.4	41.97N	23.10E	10			¶97xii1764
SOF	XII	07	18	40	20.9	41.96N	23.19E	2	2.5D		
ISC	**XII**	**07**	**18**	**54**	**12**±8.5	**42.0N**±.46	**23.5E**±.25	**2**		**7**	**1-2**
THE	XII	07	18	54	13.8	42.0N	23.5E	2	2.6L		¶97xii1766
THE	**XII**	**09**	**10**	**07**	**03.8**	**41.1N**	**23.7E**	**0**	**1.9L**		¶97xii2149
ISC	**XII**	**17**	**09**	**10**	**16**±12	**41.7N**±.67	**23.3E**±.36	**0**		**4**	**1-1**
THE	XII	17	09	10	14.2	41.9N	23.4E	0	2.4L		¶97xii3583
ISC	Poorly determined										
THE	**XII**	**24**	**09**	**50**	**34.3**	**41.1N**	**23.7E**	**0**	**1.4L**		¶97xii4736

(364) Greece.

ISC	**VII**	**01**	**00**	**49**	**18.2**±.59	**38.28N**±.048	**21.77E**±.083	**5**	**3.4b**	**21**	**1-77**
ATH	VII	01	00	49	19.8	38.33N	21.81E	5	3.2L		¶97vii0004
EIDC	VII	01	00	49	25.1	39.2N	21.5E	0	3.3b,3.9L		
NEIC	VII	01	00	49	26.1	39.37N	21.02E	10			
NEIC	Poor solution.										
ISC	**VII**	**01**	**13**	**26**	**00**±1.1	**38.56N**±.081	**23.78E**±.099	**18**		**9**	**1-2**
ATH	VII	01	13	26	01.1	38.11N	23.52E	10	2.4L		¶97vii0096
THE	VII	01	13	26	02.5	38.6N	23.7E	18	2.6L		
ISC	**VII**	**02**	**04**	**37**	**36.8**±.69	**38.20N**±.048	**22.81E**±.082	**5**		**12**	**1-3**
THE	VII	02	04	37	37.9	38.2N	22.8E	0	2.5L		¶97vii0180
ATH	VII	02	04	37	39.0	38.16N	22.81E	5	2.6L		
ISC	**VII**	**02**	**08**	**28**	**40**±1.3	**40.41N**±.098	**23.3E**±.15	**10**		**5**	**0-1**
THE	VII	02	08	28	41.1	40.4N	23.3E	10	1.7L		¶97vii0205
ISC	**VII**	**02**	**16**	**17**	**59**±1.1	**40.34N**±.077	**23.9E**±.11	**2**		**5**	**0-1**
THE	VII	02	16	17	59.6	40.3N	23.9E	2	2.5L		¶97vii0264
ATH	**VII**	**02**	**16**	**37**	**42.4**	**38.21N**	**21.02E**	**15**	**2.8D**		¶97vii0267
ISC	**VII**	**03**	**02**	**17**	**04.6**±.59	**38.30N**±.039	**21.86E**±.044	**18**±6.7	**3.7b**	**51**	**0-77**
ATH	VII	03	02	17	04.0	38.34N	21.84E	5	3.4L		¶97vii0341
THE	VII	03	02	17	04.4	38.3N	21.8E	0	3.4L		
EIDC	VII	03	02	17	05.9	38.8N	21.6E	0	3.7b,3.6L		
NEIC	VII	03	02	17	08.5	38.73N	21.52E	33	3.6b		
NEIC	Less reliable solution.										
ISC	**VII**	**03**	**09**	**33**	**06**±1.4	**40.4N**±.11	**23.1E**±.12	**11**		**4**	**0-1**
THE	VII	03	09	33	06.8	40.4N	23.1E	11			¶97vii0386
ISC	Poorly determined										
ISC	**VII**	**04**	**03**	**11**	**32**±1.1	**40.6N**±.11	**21.72E**±.099	**7**±29		**7**	**0-2**
THE	VII	04	03	11	33.1	40.6N	21.7E	4	2.0L		¶97vii0486
ISC	**VII**	**04**	**04**	**30**	**00**±1.1	**40.6N**±.12	**21.68E**±.098	**7**±34		**6**	**0-2**
THE	VII	04	04	30	01.9	40.5N	21.7E	1	1.9L		¶97vii0496
ISC	**VII**	**04**	**05**	**12**	**22**±1.3	**40.2N**±.12	**21.2E**±.15	**10**±23		**5**	**1-2**
THE	VII	04	05	12	23.1	40.2N	21.1E	8	1.8L		¶97vii0505
ISC	Poorly determined										
ISC	**VII**	**04**	**05**	**41**	**07**±2.1	**40.5N**±.13	**21.7E**±.15	**9**		**4**	**0-1**
THE	VII	04	05	41	07.7	40.5N	21.7E	9	1.9L		¶97vii0510
ISC	Poorly determined										
ISC	**VII**	**04**	**11**	**13**	**15**±1.1	**39.10N**±.055	**21.8E**±.11	**3**±14		**9**	**0-2**
ATH	VII	04	11	13	15.4	39.10N	21.86E	6	2.7D		¶97vii0548
THE	VII	04	11	13	19.3	39.3N	21.7E	12	2.1L		
ISC	**VII**	**05**	**04**	**10**	**02**±1.7	**40.1N**±.12	**21.6E**±.21	**6**		**4**	**1-1**
THE	VII	05	04	10	03.1	40.1N	21.6E	6	2.0L		¶97vii0672
ISC	Poorly determined										
ISC	**VII**	**05**	**05**	**54**	**46**±1.2	**39.98N**±.076	**22.4E**±.11	**10**±15		**6**	**0-1**
THE	VII	05	05	54	46.8	40.0N	22.4E	12	2.1L		¶97vii0687
ISC	**VII**	**06**	**02**	**28**	**42**±1.2	**40.50N**±.083	**23.5E**±.18	**9**		**5**	**0-1**
THE	VII	06	02	28	42.7	40.5N	23.5E	9	2.1L		¶97vii0826
ISC	**VII**	**06**	**10**	**32**	**01**±1.2	**38.77N**±.059	**21.68E**±.085	**9**±9.7		**19**	**0-3**
ATH	VII	06	10	32	00.6	38.92N	21.51E	5	3.3L		¶97vii0870
THE	VII	06	10	32	01.6	38.7N	21.7E	6	2.7L		
ISC	**VII**	**08**	**02**	**11**	**25.9**±.89	**39.46N**±.050	**22.84E**±.066	**8**±11		**15**	**1-2**
ATH	VII	08	02	11	26.0	39.48N	22.85E	10	3.0D		¶97vii1122
THE	VII	08	02	11	26.8	39.4N	22.8E	1	2.5L		
ISC	**VII**	**08**	**02**	**26**	**32**±1.3	**39.7N**±.12	**21.1E**±.17	**20**		**4**	**0-2**
ATH	VII	08	02	26	31.8	39.76N	21.04E	20	2.7D		¶97vii1127
ISC	Poorly determined										
THE	**VII**	**08**	**02**	**41**	**12.7**	**39.5N**	**22.8E**	**19**	**2.0L**		¶97vii1130
ISC	**VII**	**08**	**13**	**26**	**15.3**±.80	**40.18N**±.056	**21.68E**±.073	**2**		**12**	**1-2**
THE	VII	08	13	26	16.2	40.2N	21.7E	2	2.6L		¶97vii1195
ATH	**VII**	**08**	**14**	**23**	**17.1**	**38.26N**	**22.28E**	**10**	**2.6D**		¶97vii1201
ISC	**VII**	**09**	**10**	**36**	**33**±1.0	**38.5N**±.10	**22.5E**±.19	**50**		**5**	**1-2**
THE	VII	09	10	36	32.7	38.3N	22.5E	0			¶97vii1321
ATH	VII	09	10	36	33.8	38.44N	22.46E	50	3.1L		
ISC	**VII**	**09**	**13**	**03**	**02.4**±.94	**40.12N**±.065	**21.88E**±.099	**10**		**6**	**0-1**
THE	VII	09	13	03	03.4	40.1N	21.9E	10	2.2L		¶97vii1339
ISC	**VII**	**09**	**13**	**04**	**00.2**±.66	**39.22N**±.046	**21.34E**±.074	**3**		**11**	**0-3**
ATH	VII	09	13	04	00.8	39.25N	21.40E	3	3.0D		¶97vii1341
THE	VII	09	13	04	01.1	39.2N	21.3E	0	2.8L		
ISC	**VII**	**09**	**17**	**10**	**53.0**±.68	**40.43N**±.049	**23.58E**±.064	**0**		**14**	**0-2**
THE	VII	09	17	10	53.9	40.4N	23.6E	0	2.1L		¶97vii1367
ISC	**VII**	**09**	**17**	**12**	**20.5**±.70	**40.41N**±.050	**23.51E**±.065	**10**		**14**	**0-2**
THE	VII	09	17	12	21.0	40.4N	23.6E	10	2.6L		¶97vii1368
ISC	**VII**	**10**	**20**	**25**	**54.7**±.85	**40.53N**±.057	**23.56E**±.086	**5**		**8**	**0-1**
THE	VII	10	20	25	55.6	40.5N	23.6E	5	2.2L		¶97vii1558
ISC	**VII**	**10**	**20**	**29**	**11**±1.5	**39.98N**±.072	**21.8E**±.14	**12**		**7**	**1-2**
THE	VII	10	20	29	12.5	40.0N	21.9E	12	2.1L		¶97vii1559
ISC	**VII**	**10**	**20**	**29**	**24.3**±.69	**40.51N**±.046	**23.55E**±.082	**10**±9.6		**12**	**0-2**
THE	VII	10	20	29	24.8	40.5N	23.6E	13	2.5L		¶97vii1560
ISC	**VII**	**10**	**20**	**35**	**18.8**±.84	**40.54N**±.057	**23.56E**±.086	**10**		**9**	**0-1**
THE	VII	10	20	35	19.7	40.5N	23.6E	10	2.3L		¶97vii1563
ISC	**VII**	**11**	**03**	**35**	**19**±1.8	**40.4N**±.11	**21.7E**±.14	**8**		**5**	**0-2**
THE	VII	11	03	35	20.1	40.4N	21.7E	8	1.9L		¶97vii1625
ISC	**VII**	**11**	**05**	**19**	**20**±1.1	**40.81N**±.079	**23.4E**±.11	**17**±17		**7**	**0-1**
THE	VII	11	05	19	20.0	40.8N	23.4E	17	1.5L		¶97vii1628
ISC	**VII**	**11**	**20**	**16**	**43.8**±.93	**38.93N**±.059	**21.94E**±.062	**5**±9.6		**17**	**0-3**
THE	VII	11	20	16	44.3	38.9N	21.9E	10	2.3L		¶97vii1723
ATH	VII	11	20	16	45.4	38.93N	21.80E	5	2.9D		
ISC	**VII**	**12**	**20**	**26**	**28**±1.2	**38.95N**±.043	**22.43E**±.071	**1**±11		**22**	**0-4**
SOF	VII	12	20	26	28.1	38.95N	22.23E	10	2.6D		¶97vii1865
ATH	VII	12	20	26	29.0	38.94N	22.35E	5	3.0L		
THE	VII	12	20	26	30.0	39.0N	22.4E	10	2.9L		

ISC	**VII**	**13 00 59 01**±2.3	**38.46N**±.089	**20.7E**±.23	**5**		**7**	**1-2**	
ATH	VII	13 00 59 02.4	38.47N	20.72E	5	2.9D	**¶97vii1898**		
THE	VII	13 00 59 04.5	38.4N	20.9E	3				
ISC	**VII**	**13 02 58 07.6**±.88	**40.73N**±.063	**23.46E**±.093	**10**		**7**	**0-1**	
THE	VII	13 02 58 07.9	40.8N	23.5E	10	2.0L	**¶97vii1914**		
ISC	**VII**	**13 20 45 47**±2.2	**40.66N**±.074	**23.3E**±.11	**12**±42		**6**	**0-1**	
THE	VII	13 20 45 47.7	40.7N	23.3E	14	1.3L	**¶97vii2023**		
ISC	**VII**	**14 19 06 44**±8.8	**38.9N**±.63	**23.4E**±.47	**10**		**4**	**1-2**	
THE	VII	14 19 06 38.4	38.4N	23.7E	10	2.5L	**¶97vii2191**		
ISC	Poorly determined								
ISC	**VII**	**15 00 48 20.6**±.80	**40.69N**±.055	**21.52E**±.073	**0**		**9**	**0-2**	
THE	VII	15 00 48 21.7	40.7N	21.5E	0	2.0L	**¶97vii2226**		
ISC	**VII**	**15 00 49 54**±1.5	**40.6N**±.11	**21.4E**±.14	**9**±20		**5**	**0-1**	
THE	VII	15 00 49 54.6	40.6N	21.4E	13	1.9L	**¶97vii2227**		
ISC	Poorly determined								
ISC	**VII**	**15 01 34 48**±1.2	**40.66N**±.073	**21.5E**±.10	**6**±11		**9**	**0-2**	
THE	VII	15 01 34 49.1	40.7N	21.5E	0	2.1L	**¶97vii2231**		
THE	**VII**	**15 03 34 09.7**	**38.9N**	**21.3E**	**1**	**2.2L**	**¶97vii2249**		
THE	**VII**	**15 11 21 54.5**	**41.0N**	**22.2E**	**0**	**1.6L**	**¶97vii2297**		
ISC	**VII**	**15 14 05 59**±10	**38.8N**±.59	**23.5E**±.44	**10**		**4**	**1-2**	
THE	VII	15 14 06 04.1	39.0N	23.3E	10	2.1L	**¶97vii2314**		
ISC	Poorly determined								
ISC	**VII**	**15 17 55 55.6**±.86	**40.89N**±.060	**22.88E**±.078	**5**		**7**	**0-1**	
THE	VII	15 17 55 56.3	40.9N	22.9E	5	1.9L	**¶97vii2331**		
ISC	**VII**	**15 21 56 53.2**±.77	**40.55N**±.055	**23.61E**±.079	**5**±11		**13**	**0-2**	
THE	VII	15 21 56 53.8	40.5N	23.6E	13	2.2L	**¶97vii2358**		
ISC	**VII**	**16 04 23 53**±1.1	**40.52N**±.082	**23.6E**±.17	**2**		**5**	**0-1**	
THE	VII	16 04 23 54.0	40.5N	23.6E	2	1.9L	**¶97vii2386**		
THE	**VII**	**17 14 18 10.9**	**40.9N**	**21.6E**	**10**	**1.9L**	**¶97vii2604**		
ISC	**VII**	**17 21 25 37**±1.1	**38.93N**±.058	**23.46E**±.074	**4**±12		**11**	**0-3**	
THE	VII	17 21 25 37.6	38.9N	23.4E	10	2.3L	**¶97vii2647**		
ATH	VII	17 21 25 44.1	38.39N	24.17E	10	2.8L			
ISC	**VII**	**18 13 40 37.1**±.98	**40.33N**±.063	**23.74E**±.096	**4**±24		**8**	**0-1**	
THE	VII	18 13 40 37.5	40.3N	23.8E	12	2.2L	**¶97vii2751**		
ISC	**VII**	**19 00 27 49.1**±.75	**38.36N**±.046	**21.92E**±.087	**5**		**16**	**1-3**	
ATH	VII	19 00 27 50.0	38.28N	21.80E	5	2.9L	**¶97vii2804**		
THE	VII	19 00 27 50.2	38.3N	21.9E	0	2.7L			
ISC	**VII**	**19 05 48 19**±1.6	**39.95N**±.083	**21.9E**±.17	**6**		**6**	**0-1**	
THE	VII	19 05 48 20.5	40.0N	21.9E	6	2.0L	**¶97vii2834**		
ISC	Poorly determined								
ISC	**VII**	**19 06 50 01**±3.3	**38.7N**±.23	**21.8E**±.12	**80**±27		**15**	**0-3**	
ATH	VII	19 06 50 06.9	39.04N	21.74E	35	2.9D	**¶97vii2840**		
THE	VII	19 06 50 06.9	39.2N	21.9E	18	2.7L			
ISC	**VII**	**19 12 22 51**±1.1	**40.46N**±.091	**23.4E**±.14	**0**		**5**	**0-1**	
THE	VII	19 12 22 51.8	40.5N	23.4E	0	2.8L	**¶97vii2871**		
ISC	**VII**	**19 14 55 59.4**±.87	**38.41N**±.062	**22.32E**±.090	**1**		**9**	**1-2**	
THE	VII	19 14 55 59.9	38.4N	22.2E	1	2.6L	**¶97vii2893**		
ATH	VII	19 14 56 00.3	38.43N	22.20E	5	2.8L			
ISC	**VII**	**19 15 16 57**±1.3	**38.28N**±.074	**21.9E**±.20	**23**		**6**	**1-2**	
THE	VII	19 15 16 56.4	38.3N	21.9E	0	2.6L	**¶97vii2900**		
ATH	VII	19 15 16 57.0	38.30N	21.82E	23	2.9L			
THE	**VII**	**19 20 32 33.6**	**40.7N**	**23.2E**	**6**	**1.6L**	**¶97vii2950**		
ISC	**VII**	**20 08 45 47**±5.2	**41.0N**±.28	**21.2E**±.27	**3**±24		**5**	**0-2**	
THE	VII	20 08 45 48.9	40.9N	21.2E	8	2.2L	**¶97vii3052**		
ISC	Poorly determined								
ISC	**VII**	**20 23 10 25**±1.2	**38.97N**±.072	**23.4E**±.14	**3**		**6**	**1-2**	
THE	VII	20 23 10 25.5	38.9N	23.4E	3	2.3L	**¶97vii3156**		
ATH	VII	20 23 10 26.0	38.95N	23.47E	5	3.0L			
ISC	**VII**	**21 20 45 45.4**±.72	**39.33N**±.052	**21.44E**±.068	**5**		**14**	**1-3**	
ATH	VII	21 20 45 45.5	39.39N	21.56E	5	2.9D	**¶97vii3286**		
THE	VII	21 20 45 46.5	39.3N	21.4E	0	2.7L			
THE	**VII**	**22 17 35 51.9**	**39.1N**	**21.8E**	**19**	**1.6L**	**¶97vii3402**		
ISC	**VII**	**23 05 53 13.5**±.69	**38.31N**±.045	**22.15E**±.079	**1**		**11**	**1-2**	
THE	VII	23 05 53 14.6	38.3N	22.1E	1	2.9L	**¶97vii3486**		
ATH	VII	23 05 53 15.1	38.29N	22.14E	5	3.0L			
ISC	**VII**	**23 14 31 50.5**±.90	**38.32N**±.042	**22.09E**±.051	**1**±7.9		**28**	**1-24**	
THE	VII	23 14 31 51.6	38.3N	22.0E	4	3.1L	**¶97vii3543**		
ATH	VII	23 14 31 52.1	38.29N	22.03E	5	3.1L			
ISC	**VII**	**23 20 25 04.6**±.41	**40.05N**±.035	**21.62E**±.043	**5**	3.3b	**26**	**0-22**	
THE	VII	23 20 25 06.0	40.1N	21.6E	0	2.7L	**¶97vii3574**		
ATH	VII	23 20 25 06.2	40.15N	21.54E	5	3.3D			
ISC	**VII**	**24 09 41 14**±1.6	**39.3N**±.10	**22.4E**±.20	**25**		**4**	**0-1**	
THE	VII	24 09 41 14.2	39.4N	22.4E	25	2.1L	**¶97vii3650**		
ISC	Poorly determined								
THE	**VII**	**24 09 51 48.7**	**40.8N**	**21.7E**	**16**	**2.1L**	**¶97vii3656**		
ISC	**VII**	**24 12 58 48**±1.3	**39.37N**±.093	**22.6E**±.13	**1**±32		**5**	**0-2**	
THE	VII	24 12 58 48.6	39.4N	22.6E	0	2.1L	**¶97vii3670**		
ISC	Poorly determined								
ISC	**VII**	**24 13 12 16.3**±.77	**39.28N**±.031	**22.22E**±.042	**1**±7.4	3.9b	**39**	**0-23**	
ATH	VII	24 13 12 17.7	39.24N	22.24E	5	3.2L	**¶97vii3673**		
THE	VII	24 13 12 17.8	39.3N	22.2E	5	3.2L			
ISC	**VII**	**24 13 18 35**±1.9	**39.30N**±.095	**22.2E**±.20	**3**±24		**5**	**0-2**	
THE	VII	24 13 18 36.2	39.3N	22.2E	5	2.3L	**¶97vii3674**		
ISC	Poorly determined								
ISC	**VII**	**24 16 32 45.7**±.78	**39.38N**±.035	**22.66E**±.050	**1**±8.3		**25**	**0-3**	
THE	VII	24 16 32 46.6	39.4N	22.6E	1	3.0L	**¶97vii3699**		
ATH	VII	24 16 32 47.1	39.34N	22.71E	5	3.0L			
ISC	**VII**	**24 16 56 01**±1.3	**40.1N**±.11	**21.5E**±.12	**0**		**4**	**1-1**	
THE	VII	24 16 56 01.8	40.1N	21.5E	0	2.1L	**¶97vii3703**		
ISC	Poorly determined								
ISC	**VII**	**24 17 26 46.2**±.74	**39.39N**±.053	**22.65E**±.075	**5**		**10**	**0-2**	
THE	VII	24 17 26 47.1	39.4N	22.6E	0	2.5L	**¶97vii3706**		
ATH	VII	24 17 26 49.0	39.48N	22.42E	5				
ISC	**VII**	**24 18 04 18**±1.3	**39.37N**±.096	**22.6E**±.13	**9**±28		**5**	**0-2**	
THE	VII	24 18 04 19.3	39.4N	22.6E	6	2.2L	**¶97vii3710**		
ISC	Poorly determined								
ISC	**VII**	**24 22 04 54.7**±.80	**39.20N**±.062	**22.25E**±.078	**16**		**10**	**0-2**	
ATH	VII	24 22 04 52.6	39.03N	22.44E	16	2.8D	**¶97vii3729**		
THE	VII	24 22 04 55.2	39.2N	22.2E	3	2.3L			
ISC	**VII**	**25 12 34 37.8**±.29	**39.95N**±.029	**22.58E**±.030	**40**±5.1	**3.9b**	**86**	**0-77**	
THE	VII	25 12 34 36.2	40.0N	22.5E	9	3.6L	**¶97vii3829**		
ATH	VII	25 12 34 36.5	39.92N	22.56E	6	3.6L			
NEIC	VII	25 12 34 37.5	39.95N	22.48E	38	4.1b			
EIDC	VII	25 12 34 40.7	40.0N	22.5E	47	3.7b,3.8L			
PDG	VII	25 12 34 42.0	40.6N	22.6E	15	3.7L			
THE	**VII**	**26 05 11 37.3**	**40.1N**	**23.4E**	**10**		**¶97vii3919**		
THE	**VII**	**26 05 35 50.1**	**40.0N**	**22.5E**	**10**	**2.0L**	**¶97vii3923**		
ISC	**VII**	**26 23 02 30**±3.6	**38.9N**±.29	**23.4E**±.16	**6**±26		**5**	**0-1**	
THE	VII	26 23 02 31.4	38.9N	23.4E	6		**¶97vii4024**		
ISC	Poorly determined								
ISC	**VII**	**27 08 39 07.8**±.83	**40.91N**±.058	**22.78E**±.081	**10**		**7**	**0-1**	
THE	VII	27 08 39 07.7	40.9N	22.7E	10	1.9L	**¶97vii4084**		
ISC	**VII**	**28 00 10 00**±1.3	**40.20N**±.090	**21.3E**±.13	**9**		**4**	**1-1**	
THE	VII	28 00 10 01.5	40.2N	21.3E	9	1.8L	**¶97vii4184**		
ISC	Poorly determined								
ISC	**VII**	**28 08 43 39.6**±.98	**38.96N**±.061	**21.12E**±.097	**1**		**7**	**1-3**	
THE	VII	28 08 43 40.8	39.0N	21.1E	1	2.6L	**¶97vii4235**		
ATH	VII	28 08 43 40.8	38.93N	21.12E	5	2.8D			
ISC	**VII**	**28 11 44 09.8**±.93	**39.98N**±.071	**21.23E**±.096	**10**		**7**	**1-2**	
THE	VII	28 11 44 10.3	40.0N	21.2E	10	2.2L	**¶97vii4262**		
ISC	**VII**	**28 14 55 24**±1.0	**40.11N**±.071	**21.55E**±.098	**11**		**6**	**1-1**	
THE	VII	28 14 55 25.5	40.1N	21.5E	11	2.3L	**¶97vii4291**		
ISC	**VII**	**28 17 47 58.1**±.82	**40.56N**±.054	**23.33E**±.083	**0**		**7**	**0-1**	
THE	VII	28 17 47 58.7	40.6N	23.3E	0	1.9L	**¶97vii4310**		
ISC	**VII**	**28 17 57 32**±3.9	**40.4N**±.26	**21.7E**±.17	**13**±25		**5**	**1-2**	
THE	VII	28 17 57 34.2	40.2N	21.7E	10	2.2L	**¶97vii4311**		
ISC	Poorly determined								
ISC	**VII**	**29 08 56 14.7**±.52	**38.59N**±.036	**21.63E**±.065	**5**		**20**	**0-4**	
ATH	VII	29 08 56 15.5	38.61N	21.57E	5	3.3L	**¶97vii4409**		
THE	VII	29 08 56 15.6	38.6N	21.6E	0	2.9L			
ISC	**VII**	**29 10 43 43.2**±.66	**39.99N**±.046	**21.62E**±.075	**2**		**11**	**0-2**	
THE	VII	29 10 43 44.2	40.0N	21.6E	2	2.5L	**¶97vii4423**		
ATH	VII	29 10 43 44.5	40.04N	21.67E	10	2.8D			
ISC	**VII**	**29 16 29 45**±1.7	**40.4N**±.10	**23.3E**±.21	**0**		**5**	**0-1**	
THE	VII	29 16 29 45.8	40.4N	23.3E	0	1.6L	**¶97vii4450**		
ISC	**VII**	**29 21 14 45.8**±.61	**39.26N**±.025	**22.17E**±.027	**26**±6.4	**3.9b**,3.0S	**119**	**0-95**	
NEIC	VII	29 21 14 42.4	39.26N	22.31E	10	4.0b	**¶97vii4482**		
ATH	VII	29 21 14 44.7	39.27N	22.18E	5	3.6L			
EIDC	VII	29 21 14 50.0	39.3N	22.2E	58	3.7b,3.0S			
PDG	VII	29 21 14 55.6	39.7N	21.4E	15	3.8L			
NEIC	$M_{L3.9}$(ROM).								
ISC	**VII**	**30 16 33 37**±1.1	**38.39N**±.048	**22.27E**±.079	**8**±13		**12**	**1-2**	
THE	VII	30 16 33 37.9	38.4N	22.3E	8	2.8L	**¶97vii4605**		
ATH	VII	30 16 33 39.0	38.37N	22.26E	9	3.1L			
NEIC	VII	30 16 33 39.4	38.42N	22.15E	33				
NEIC	Single network solution.								
ISC	**VII**	**30 17 08 36.3**±.68	**38.98N**±.049	**21.61E**±.067	**5**		**11**	**0-2**	
ATH	VII	30 17 08 37.3	38.98N	21.68E	5	3.0D	**¶97vii4611**		
THE	VII	30 17 08 37.5	39.0N	21.6E	0	2.5L			
ATH	**VII**	**30 21 24 29.8**	**38.38N**	**21.73E**	**20**	**2.9D**	**¶97vii4637**		
ISC	**VII**	**31 17 46 05.6**±.88	**40.83N**±.066	**22.96E**±.087	**15**		**7**	**0-1**	
THE	VII	31 17 46 06.3	40.9N	22.9E	15	1.6L	**¶97vii4770**		
ISC	**VIII**	**01 00 01 12.2**±.97	**40.09N**±.065	**21.74E**±.097	**4**		**6**	**1-1**	
THE	VIII	01 00 01 13.0	40.1N	21.7E	4		**¶97viii0001**		
ISC	**VIII**	**01 08 31 12.1**±.73	**40.08N**±.046	**21.80E**±.080	**5**		**12**	**0-2**	
ATH	VIII	01 08 31 10.0	40.17N	22.21E	5	2.9D	**¶97viii0040**		
THE	VIII	01 08 31 12.7	40.1N	21.7E	4	2.8L			
ISC	**VIII**	**01 10 49 44**±2.6	**40.4N**±.15	**21.6E**±.20	**2**±16		**6**	**0-2**	
THE	VIII	01 10 49 44.3	40.4N	21.5E	10	2.0L	**¶97viii0053**		
ISC	**VIII**	**01 23 22 32.4**±.73	**39.93N**±.043	**22.54E**±.045	**5**±6.4		**31**	**0-6**	
THE	VIII	01 23 22 33.4	40.0N	22.5E	9	2.9L	**¶97viii0133**		
ATH	VIII	01 23 22 34.0	39.95N	22.49E	24	3.4D			
ISC	**VIII**	**02 00 00 28.9**±.38	**39.94N**±.030	**22.55E**±.043	**8**		**33**	**0-6**	
THE	VIII	02 00 00 29.4	39.9N	22.5E	8	3.1L	**¶97viii0135**		
ATH	VIII	02 00 00 29.5	39.97N	22.45E	5	3.3L			
ISC	**VIII**	**02 03 07 03**±2.0	**40.2N**±.11	**21.8E**±.17	**3**±25		**5**	**1-2**	
THE	VIII	02 03 07 04.4	40.2N	21.8E	4	2.2L	**¶97viii0161**		
ISC	Poorly determined								
ISC	**VIII**	**03 01 51 14.2**±.56	**38.29N**±.027	**23.14E**±.029	**17**±5.3	**4.0b**	**140**	**1-120**	
EIDC	VIII	03 01 51 11.8	38.4N	23.2E	0	4.1b,3.9L	**¶97viii0282**		
THE	VIII	03 01 51 14.3	38.3N	23.1E	3	3.4L			
NEIC	VIII	03 01 51 14.4	38.28N	23.17E	26	3.8b			
ATH	VIII	03 01 51 14.7	38.31N	23.09E	9	3.8L			
PDG	VIII	03 01 51 18.5	38.0N	22.0E	55	4.0L			
NEIC	$M_{L4.1}$(ROM).								
ISC	**VIII**	**03 08 04 23**±1.7	**40.2N**±.13	**21.7E**±.20	**18**		**4**	**1-2**	
THE	VIII	03 08 04 23.3	40.2N	21.7E	18	2.2L	**¶97viii0331**		
ISC	Poorly determined								
ISC	**VIII**	**03 14 17 42**±1.2	**39.1N**±.11	**21.5E**±.13	**20**		**8**	**0-2**	
ATH	VIII	03 14 17 42.2	39.11N	21.51E	20	2.8D	**¶97viii0371**		
THE	VIII	03 14 17 47.3	39.5N	21.4E	3	2.4L			
ISC	**VIII**	**04 00 26 16**±2.6	**38.9N**±.20	**23.2E**±.11	**3**		**5**	**1-2**	
THE	VIII	04 00 26 17.3	38.9N	23.1E	3		**¶97viii0435**		
ISC	**VIII**	**04 08 53 48**±1.3	**38.1N**±.11	**21.2E**±.14	**5**		**4**	**0-2**	
ATH	VIII	04 08 53 49.5	38.11N	21.16E	5	2.9D	**¶97viii0478**		
ISC	Poorly determined								
ISC	**VIII**	**04 19 52 07.4**±.82	**40.67N**±.054	**23.44E**±.082	**10**		**8**	**0-1**	
THE	VIII	04 19 52 08.3	40.7N	23.4E	10	1.6L	**¶97viii0538**		
ATH	**VIII**	**04 20 05 28.5**	**38.81N**	**20.99E**	**12**	**2.6D**	**¶97viii0543**		
ATH	**VIII**	**04 22 43 30.1**	**38.31N**	**20.44E**	**10**	**2.9D**	**¶97viii0568**		
ISC	**VIII**	**04 22 54 40**±3.9	**38.3N**±.13	**20.3E**±.34	**5**		**4**	**0-2**	
ATH	VIII	04 22 54 42.0	38.30N	20.30E	5	3.0D	**¶97viii0570**		
ISC	Poorly determined								
ISC	**VIII**	**05 00 58 31.2**±.87	**38.35N**±.053	**21.9E**±.12	**5**		**10**	**1-3**	
ATH	VIII	05 00 58 32.0	38.35N	21.99E	5	2.9D	**¶97viii0588**		
THE	VIII	05 00 58 32.3	38.4N	21.9E	4	2.9L			
ISC	**VIII**	**05 01 25 21**±1.5	**38.3N**±.11	**23.2E**±.13	**5**		**5**	**1-2**	
ATH	VIII	05 01 25 21.8	38.32N	23.12E	5	2.5L	**¶97viii0593**		
ISC	**VIII**	**05 03 03 01**±9.0	**38.8N**±.55	**23.4E**±.40	**9**		**4**	**1-2**	
THE	VIII	05 03 03 04.3	38.9N	23.3E	9		**¶97viii0604**		
ISC	Poorly determined								
ISC	**VIII**	**05 07 49 38**±1.1	**38.52N**±.057	**22.6E**±.12	**15**±17		**9**	**1-2**	
THE	VIII	05 07 49 38.7	38.5N	22.7E	12	2.8L	**¶97viii0632**		
ATH	VIII	05 07 49 39.2	38.59N	22.63E	39	2.8L			
ISC	**VIII**	**05 08 44 13**±1.8	**38.6N**±.11	**20.2E**±.22	**13**±15		**12**	**0-4**	
THE	VIII	05 08 44 13.8	38.6N	20.3E	8	3.2L	**¶97viii0643**		
ATH	VIII	05 08 44 14.9	38.53N	20.37E	31	3.1D			
ISC	**VIII**	**05 17 25 26.1**±.67	**38.27N**±.043	**21.79E**±.043	**21**±6.5	**3.8b**	**54**	**1-78**	
ATH	VIII	05 17 25 25.9	38.32N	21.75E	5	3.5L	**¶97viii0694**		
THE	VIII	05 17 25 26.6	38.3N	21.8E	3	3.4L			
EIDC	VIII	05 17 25 26.7	38.7N	22.2E	0	3.9b,3.8L			
NEIC	VIII	05 17 25 29.3	38.55N	21.64E	33	3.7b			
NEIC	Less reliable solution.								
ISC	**VIII**	**05 20 45 48**±1.0	**40.46N**±.089	**23.3E**±.12	**12**		**6**	**0-1**	
THE	VIII	05 20 45 48.9	40.5N	23.3E	12	1.7L	**¶97viii0713**		
ISC	**VIII**	**07 02 00 11.5**±.82	**40.54N**±.052	**23.67E**±.088	**2**±14		**10**	**0-1**	
THE	VIII	07 02 00 12.4	40.5N	23.7E	7	1.9L	**¶97viii0869**		
ISC	**VIII**	**07 10 00 05.2**±.69	**39.95N**±.036	**22.52E**±.054	**7**±6.7		**28**	**0-6**	
THE	VIII	07 10 00 06.3	40.0N	22.5E	10	3.0L	**¶97viii0920**		
ATH	VIII	07 10 00 06.5	39.97N	22.54E	7	3.4D			

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 07 10 09 40.8**±.88	**39.92N**±.047	**22.51E**±.074	**4**±11		**13**	**0-1**
THE	VIII 07 10 09 41.8	39.9N	22.5E	7	2.3L		¶97viii0924
ATH	VIII 07 10 09 42.5	39.95N	22.48E	10	2.9D		
ISC	**VIII 07 18 00 35**±1.4	**39.92N**±.079	**22.5E**±.17	**8**		**4**	**0-1**
THE	VIII 07 18 00 36.1	39.9N	22.5E	8	2.0L		¶97viii0983
ISC	Poorly determined						
ISC	**VIII 08 00 19 29.1**±.80	**38.85N**±.043	**23.48E**±.062	**3**±8.5		**20**	**0-3**
THE	VIII 08 00 19 30.5	38.9N	23.4E	6	2.7L		¶97viii1018
ATH	VIII 08 00 19 31.5	38.83N	23.46E	7	3.1L		
ISC	**VIII 08 15 12 16.1**±.48	**40.08N**±.040	**21.52E**±.049	**2**		**18**	**0-2**
THE	VIII 08 15 12 16.8	40.1N	21.5E	2	2.6L		¶97viii1127
ATH	VIII 08 15 12 17.4	40.07N	21.67E	5	3.1D		
ISC	**VIII 08 20 27 43**±1.1	**39.72N**±.088	**22.6E**±.12	**22**		**5**	**1-1**
THE	VIII 08 20 27 44.3	39.7N	22.6E	22			¶97viii1160
ISC	**VIII 08 20 40 41**±1.3	**40.21N**±.070	**21.8E**±.10	**7**±15		**7**	**1-1**
THE	VIII 08 20 40 41.5	40.2N	21.8E	5	2.1L		¶97viii1163
ISC	**VIII 09 17 20 04**±2.1	**39.0N**±.17	**21.4E**±.11	**3**		**9**	**1-3**
THE	VIII 09 17 20 05.5	39.0N	21.4E	3	2.6L		¶97viii1292
ISC	**VIII 09 18 40 46**±1.3	**40.72N**±.099	**22.9E**±.13	**7**		**4**	**0-0**
THE	VIII 09 18 40 46.4	40.7N	22.9E	7	1.5L		¶97viii1301
ISC	Poorly determined						
ISC	**VIII 11 02 54 01.4**±.87	**39.95N**±.062	**22.52E**±.088	**2**		**8**	**1-2**
THE	VIII 11 02 54 02.9	40.0N	22.5E	2	2.3L		¶97viii1498
ISC	**VIII 11 17 26 59.7**±.51	**38.82N**±.042	**21.55E**±.046	**5**		**32**	**0-5**
ATH	VIII 11 17 27 00.4	38.88N	21.51E	5	3.3D		¶97viii1596
THE	VIII 11 17 27 02.4	38.9N	21.7E	4	3.3L		
ISC	**VIII 12 00 48 37**±2.7	**38.3N**±.12	**20.4E**±.26	**6**±24		**6**	**0-2**
THE	VIII 12 00 48 38.3	38.3N	20.4E	2	2.7L		¶97viii1655
ATH	VIII 12 00 48 39.0	38.29N	20.49E	5	2.7D		
ISC	**VIII 12 08 58 19.3**±.83	**38.83N**±.068	**21.21E**±.080	**5**		**8**	**0-3**
THE	VIII 12 08 58 17.5	38.2N	21.7E	15	2.7L		¶97viii1707
ATH	VIII 12 08 58 20.9	38.85N	21.20E	5	2.9D		
ISC	**VIII 13 03 52 56.5**±.59	**40.89N**±.046	**21.67E**±.056	**5**		**17**	**1-2**
ATH	VIII 13 03 52 54.8	41.02N	21.89E	5	3.0D		¶97viii1847
SKO	VIII 13 03 52 56.8	40.92N	21.66E	21			
THE	VIII 13 03 52 59.9	40.8N	21.9E	3	2.5L		
ISC	**VIII 15 21 23 23.8**±.63	**38.14N**±.056	**20.24E**±.048	**54**±7.6	**3.8b**	**54**	**0-46**
ATH	VIII 15 21 23 22.5	38.16N	20.26E	5	3.6L		¶97viii2277
THE	VIII 15 21 23 24.3	38.2N	20.4E	8	3.6L		
EIDC	VIII 15 21 23 25.2	38.8N	21.0E	0	4.0b,3.7L		
NEIC	VIII 15 21 23 29.6	39.02N	20.68E	33	4.2b		
NEIC	Less reliable solution.						
ISC	**VIII 16 09 14 24.0**±.26	**40.67N**±.025	**21.75E**±.030	**5**	**3.8b**,3.1S	**98**	**0-94**
PDG	VIII 16 09 14 23.7	40.7N	21.8E	10	4.0L,4.0D		¶97viii2341
EIDC	VIII 16 09 14 24.1	40.4N	21.1E	16	3.8b,3.5L		
ATH	VIII 16 09 14 25.2	40.61N	21.90E	5	4.0L		
THE	VIII 16 09 14 28.0	40.4N	21.8E	4	3.7L		
NEIC	VIII 16 09 14 28.3	41.10N	21.60E	10	3.6b		
ROM	VIII 16 09 14 37.5	40.5N	20.7E	10	3.1D		
ISC	**VIII 16 10 59 50**±1.0	**41.0N**±.10	**23.91E**±.098	**30**±12		**8**	**0-2**
THE	VIII 16 10 59 51.7	40.9N	23.8E	19			¶97viii2352
ISC	**VIII 18 01 28 32.4**±.37	**40.11N**±.035	**21.58E**±.037	**3**	3.1b	**31**	**0-22**
THE	VIII 18 01 28 33.9	40.1N	21.6E	3	2.7L		¶97viii2607
ATH	VIII 18 01 28 34.1	40.10N	21.62E	5	3.3D		
ISC	**VIII 19 19 03 46.9**±.55	**40.05N**±.026	**21.66E**±.029	**1**±4.9	**3.9b**,2.9S	**75**	**0-121**
THE	VIII 19 19 03 48.8	40.1N	21.7E	6	3.3L		¶97viii2857
ATH	VIII 19 19 03 48.8	40.07N	21.66E	5	3.9L		
NEIC	VIII 19 19 03 49.3	40.06N	21.40E	33	3.7b		
PDG	VIII 19 19 03 49.4	40.0N	21.2E	10	3.7L		
EIDC	VIII 19 19 03 54.1	40.1N	21.3E	64	3.6b,3.5L		
NEIC	Less reliable solution.						
ISC	**VIII 19 22 26 49**±1.0	**38.98N**±.093	**21.8E**±.10	**11**±12		**7**	**0-2**
ATH	VIII 19 22 26 47.6	39.04N	22.05E	5	2.8D		¶97viii2875
THE	VIII 19 22 26 49.9	39.0N	21.8E	6	2.8L		
ISC	**VIII 20 05 55 51.5**±.99	**40.03N**±.084	**21.9E**±.12	**8**		**6**	**1-2**
THE	VIII 20 05 55 51.6	40.1N	21.8E	8			¶97viii2918
ISC	**VIII 22 03 09 41.8**±.52	**40.10N**±.030	**21.63E**±.033	**18**±6.1	**3.9b**	**76**	**0-122**
EIDC	VIII 22 03 09 38.9	40.2N	21.9E	0	4.0b,3.6L		¶97viii3171
NEIC	VIII 22 03 09 41.8	40.24N	21.80E	33	4.0b		
THE	VIII 22 03 09 42.0	40.1N	21.6E	2	3.4L		
ATH	VIII 22 03 09 42.3	40.10N	21.66E	5	3.9L		
PDG	VIII 22 03 09 44.9	40.2N	21.2E	11	3.8L		
NEIC	Less reliable solution.						
ISC	**VIII 22 03 17 47.3**±.46	**40.15N**±.023	**21.57E**±.022	**23**±4.6	**4.3b**	**168**	**0-122**
EIDC	VIII 22 03 17 44.9	40.2N	21.6E	0	4.4b,4.1L		¶97viii3172
THE	VIII 22 03 17 47.6	40.1N	21.6E	13	4.0L		
ATH	VIII 22 03 17 47.8	40.09N	21.68E	5	4.3L		
NEIC	VIII 22 03 17 47.9	40.19N	21.57E	33	4.2b		
PDG	VIII 22 03 17 48.1	39.9N	21.4E	40	4.6L,4.5D		
NEIC	$M_{L4.2(ROM)}$.						
ISC	**VIII 22 14 10 33.6**±.88	**40.16N**±.052	**21.56E**±.066	**7**±9.3		**16**	**0-2**
ATH	VIII 22 14 10 35.0	40.18N	21.82E	19	3.2D		¶97viii3235
THE	VIII 22 14 10 35.3	40.1N	21.6E	3	2.7L		
ISC	**VIII 22 14 13 00.9**±.77	**40.16N**±.072	**21.7E**±.12	**30**		**8**	**0-1**
ATH	VIII 22 14 12 59.0	40.26N	21.82E	30	2.9D		¶97viii3236
ISC	**VIII 22 14 37 42**±1.0	**40.06N**±.075	**21.9E**±.15	**13**		**6**	**1-1**
THE	VIII 22 14 37 43.4	40.1N	21.8E	13	2.6L		¶97viii3238
ISC	**VIII 22 15 34 19**±1.0	**40.17N**±.069	**21.6E**±.10	**9**±12		**9**	**0-2**
ATH	VIII 22 15 34 19.2	40.23N	21.84E	26	2.9D		¶97viii3248
THE	VIII 22 15 34 20.4	40.2N	21.6E	10			
ISC	**VIII 23 02 04 40.0**±.74	**38.70N**±.061	**21.7E**±.11	**24**		**12**	**0-3**
THE	VIII 23 02 04 37.8	38.9N	21.4E	24	3.1L		¶97viii3324
ATH	VIII 23 02 04 38.1	38.93N	21.60E	32	3.1D		
ISC	**VIII 23 16 52 14.4**±.37	**38.66N**±.036	**22.25E**±.037	**96**±4.8	**3.8b**	**84**	**0-121**
NEIC	VIII 23 16 52 05.1	38.64N	22.81E	10	4.6b		¶97viii3425
EIDC	VIII 23 16 52 13.3	38.7N	22.5E	63	3.7b,4.3L		
ATH	VIII 23 16 52 16.0	38.64N	22.38E	85	3.7L		
THE	VIII 23 16 52 16.4	38.7N	22.4E	25	3.4L		
PDG	VIII 23 16 52 23.6	39.0N	21.3E	40	4.4L		
ISC	**VIII 23 19 16 55.1**±.90	**38.9N**±.10	**21.6E**±.12	**42**		**6**	**0-2**
ATH	VIII 23 19 16 54.7	38.96N	21.78E	42	2.8D		¶97viii3442
THE	VIII 23 19 16 55.0	38.9N	21.4E	23	2.7L		
ISC	**VIII 24 09 08 46.4**±.90	**38.70N**±.071	**21.28E**±.097	**5**		**6**	**0-2**
ATH	VIII 24 09 08 48.0	38.72N	21.24E	5	2.8D		¶97viii3506
ISC	**VIII 24 19 31 32.2**±.58	**40.12N**±.045	**21.62E**±.062	**5**		**14**	**1-2**
THE	VIII 24 19 31 33.7	40.1N	21.6E	5	2.5L		¶97viii3581
ATH	VIII 24 19 31 37.3	39.96N	21.57E	10			
ISC	**VIII 24 21 23 48.0**±.70	**40.15N**±.052	**21.67E**±.083	**6**		**10**	**1-2**
THE	VIII 24 21 23 49.3	40.2N	21.7E	6	3.0L		¶97viii3594
ATH	VIII 24 21 23 52.1	40.05N	21.67E	10			
ISC	**VIII 25 03 34 41.9**±.92	**40.15N**±.069	**21.60E**±.095	**7**		**6**	**1-2**
THE	VIII 25 03 34 43.4	40.1N	21.6E	7	1.9L		¶97viii3639
ISC	**VIII 25 04 42 07**±1.1	**40.96N**±.066	**22.9E**±.14	**10**		**7**	**0-2**
THE	VIII 25 04 42 07.6	40.9N	23.2E	10	1.9L		¶97viii3645
ISC	**VIII 25 07 40 39.1**±.73	**38.70N**±.037	**22.74E**±.039	**5**±5.7	**3.8b**	**51**	**0-77**
THE	VIII 25 07 40 40.6	38.7N	22.7E	7	3.4L		¶97viii3672
ATH	VIII 25 07 40 40.6	38.72N	22.73E	5	3.8L		
EIDC	VIII 25 07 40 41.4	38.9N	22.5E	0	3.8b,3.8L		
NEIC	VIII 25 07 40 41.6	38.96N	22.32E	10	3.8b		
NEIC	Less reliable solution.						
ISC	**VIII 26 00 50 43**±2.0	**38.2N**±.15	**22.4E**±.47	**17**		**4**	**1-2**
ATH	VIII 26 00 50 44.0	38.18N	22.46E	17	2.5D		¶97viii3763
ISC	Poorly determined						
ISC	**VIII 26 04 46 36**±1.3	**40.69N**±.071	**23.0E**±.13	**2**		**5**	**0-1**
THE	VIII 26 04 46 37.0	40.7N	23.0E	2	1.4L		¶97viii3789
ISC	**VIII 26 17 28 17.6**±.87	**39.77N**±.071	**22.80E**±.079	**4**		**11**	**1-2**
THE	VIII 26 17 28 19.3	39.6N	22.9E	4	2.9L		¶97viii3882
ATH	VIII 26 17 28 20.7	39.99N	22.72E	5	2.9D		
ISC	**VIII 26 22 19 23**±1.0	**40.47N**±.091	**23.4E**±.13	**9**		**5**	**0-1**
THE	VIII 26 22 19 23.3	40.5N	23.4E	9	1.6L		¶97viii3911
ISC	**VIII 28 09 19 25**±2.4	**39.0N**±.21	**23.2E**±.13	**7**		**4**	**1-1**
THE	VIII 28 09 19 25.4	38.9N	23.3E	7			¶97viii4109
ISC	Poorly determined						
ISC	**VIII 29 15 15 14**±2.6	**38.1N**±.12	**20.5E**±.24	**9**±12		**7**	**0-2**
THE	VIII 29 15 15 10.5	38.2N	20.1E	5	3.1L		¶97viii4334
ATH	VIII 29 15 15 16.3	38.19N	20.54E	5	3.1D		
ISC	**VIII 30 14 14 44**±1.0	**38.88N**±.064	**20.7E**±.12	**5**		**13**	**1-3**
ATH	VIII 30 14 14 42.3	39.00N	20.51E	5	3.0D		¶97viii4495
THE	VIII 30 14 14 42.5	39.0N	20.5E	1	3.0L		
ISC	**VIII 30 15 16 43.1**±.63	**39.18N**±.064	**22.37E**±.074	**37**		**15**	**0-3**
THE	VIII 30 15 16 41.7	39.2N	22.3E	11			¶97viii4504
ATH	VIII 30 15 16 45.3	39.25N	22.32E	37	2.9D		
ISC	**VIII 30 16 15 02**±1.1	**39.92N**±.067	**22.6E**±.13	**6**±34		**7**	**1-2**
THE	VIII 30 16 15 03.2	39.9N	22.6E	14	2.1L		¶97viii4513
ISC	**VIII 30 22 07 30.0**±.92	**40.54N**±.070	**23.5E**±.12	**12**		**6**	**0-1**
THE	VIII 30 22 07 30.8	40.5N	23.5E	12	2.4L		¶97viii4545
ISC	**VIII 31 05 50 25**±1.1	**38.36N**±.055	**21.82E**±.099	**14**±15		**8**	**1-3**
THE	VIII 31 05 50 25.9	38.4N	21.7E	14	3.0L		¶97viii4592
ATH	VIII 31 05 50 26.5	38.37N	21.81E	5	3.0L		
THE	**VIII 31 14 47 46.9**	**38.1N**	**21.6E**	**10**	**2.6L**		**¶97viii4670**
ATH	VIII 31 14 47 40.9	37.77N	21.21E	10	2.6D		
ATH	**VIII 31 17 30 43.3**	**38.77N**	**20.93E**	**25**	**2.8D**		**¶97viii4685**
ISC	**IX 01 02 56 06.5**±.66	**40.04N**±.050	**21.91E**±.075	**3**		**12**	**0-2**
ATH	IX 01 02 56 01.0	40.41N	22.41E	10			¶97ix0030
THE	IX 01 02 56 07.0	40.0N	21.8E	3			
ISC	**IX 01 09 27 46.5**±.58	**38.37N**±.045	**21.97E**±.060	**5**		**25**	**1-6**
ATH	IX 01 09 27 46.8	38.38N	21.84E	5	3.3L		¶97ix0084
THE	IX 01 09 27 47.1	38.4N	21.9E	0	3.6L		
ISC	**IX 01 20 11 53**±1.2	**38.34N**±.038	**21.84E**±.043	**3**±9.5	**3.5b**,2.7S	**48**	**1-24**
ATH	IX 01 20 11 54.1	38.38N	21.86E	5	3.4L		¶97ix0157
THE	IX 01 20 11 54.5	38.4N	21.9E	0	3.3L		
EIDC	IX 01 20 11 54.5	38.5N	21.8E	0	3.4b,2.9S		
ISC	**IX 01 23 14 59.6**±.97	**38.45N**±.064	**21.8E**±.13	**10**		**6**	**0-2**
THE	IX 01 23 14 59.7	38.4N	21.9E	10			¶97ix0177
ATH	IX 01 23 15 00.6	38.41N	21.75E	10	2.7D		
ISC	**IX 02 02 41 32.7**±.85	**38.39N**±.055	**21.9E**±.11	**5**		**7**	**1-2**
THE	IX 02 02 41 34.0	38.4N	21.8E	0			¶97ix0208
ATH	IX 02 02 41 34.3	38.41N	21.80E	5	2.9D		
ISC	**IX 02 11 20 03**±1.0	**38.46N**±.078	**21.7E**±.13	**2**		**5**	**0-2**
ATH	IX 02 11 20 04.8	38.45N	21.67E	2	2.9D		¶97ix0267
ISC	**IX 02 11 39 22.8**±.94	**38.19N**±.079	**21.5E**±.15	**22**		**7**	**0-3**
ATH	IX 02 11 39 22.8	38.23N	21.56E	22	3.0D		¶97ix0270
ISC	**IX 02 18 20 20**±1.1	**38.76N**±.049	**23.48E**±.080	**1**±11		**16**	**1-3**
THE	IX 02 18 20 21.3	38.7N	23.5E	7	3.2L		¶97ix0310
ATH	IX 02 18 20 22.9	38.66N	23.71E	28	3.0L		
ISC	**IX 03 00 07 38.5**±.48	**38.32N**±.039	**21.87E**±.050	**5**		**31**	**0-7**
THE	IX 03 00 07 39.0	38.4N	21.9E	0	3.0L		¶97ix0353
ATH	IX 03 00 07 39.0	38.36N	21.78E	5	3.1L		
ISC	**IX 03 14 05 52**±3.0	**38.4N**±.19	**21.8E**±.20	**5**		**4**	**1-1**
ATH	IX 03 14 05 51.7	38.28N	21.89E	5			¶97ix0431
ISC	Poorly determined						
ISC	**IX 03 20 40 33**±1.3	**38.8N**±.12	**21.2E**±.12	**10**		**4**	**0-1**
ATH	IX 03 20 40 34.0	38.81N	21.22E	10	2.8D		¶97ix0484
ISC	Poorly determined						
ISC	**IX 04 16 40 37**±1.3	**38.29N**±.069	**21.7E**±.12	**7**±17		**6**	**0-2**
THE	IX 04 16 40 38.1	38.3N	21.6E	0			¶97ix0608
ATH	IX 04 16 40 38.3	38.28N	21.62E	8	2.6D		
ISC	**IX 04 21 03 31**±1.2	**40.28N**±.063	**21.96E**±.068	**8**±11		**14**	**1-2**
THE	IX 04 21 03 32.4	40.3N	22.0E	3	2.4L		¶97ix0634
ISC	**IX 05 14 10 43.8**±.86	**40.49N**±.080	**23.3E**±.10	**7**±27		**7**	**0-2**
THE	IX 05 14 10 44.7	40.5N	23.3E	1	2.0L		¶97ix0752
ISC	**IX 05 19 01 43**±1.2	**40.23N**±.095	**21.5E**±.19	**31**		**4**	**1-1**
THE	IX 05 19 01 44.3	40.3N	21.4E	31	2.0L		¶97ix0783
ISC	Poorly determined						
ISC	**IX 07 02 17 43.0**±.71	**40.27N**±.056	**23.96E**±.067	**13**±6.7		**14**	**0-2**
THE	IX 07 02 17 44.3	40.3N	23.9E	5	2.7L		¶97ix1000
ISC	**IX 07 22 04 23**±1.3	**38.25N**±.088	**21.8E**±.17	**9**		**4**	**1-1**
THE	IX 07 22 04 23.5	38.2N	21.8E	9			¶97ix1130
ATH	IX 07 22 04 23.8	38.25N	21.81E	10	2.7D		
ISC	Poorly determined						
ISC	**IX 07 22 17 33.7**±.85	**38.15N**±.076	**21.6E**±.12	**19**		**8**	**1-3**
THE	IX 07 22 17 33.1	38.2N	21.7E	19	2.6L		¶97ix1134
ATH	IX 07 22 17 35.4	37.98N	21.48E	30	3.1L		
ISC	**IX 07 22 37 18.0**±.99	**40.08N**±.065	**21.5E**±.10	**5**		**6**	**1-1**
THE	IX 07 22 37 19.0	40.1N	21.5E	5			¶97ix1135
ISC	**IX 08 05 40 33.6**±.79	**40.27N**±.054	**23.13E**±.081	**2**		**8**	**0-2**
THE	IX 08 05 40 34.6	40.3N	23.1E	2	2.1L		¶97ix1181
ISC	**IX 09 22 07 44.0**±.91	**38.05N**±.069	**22.9E**±.10	**9**		**6**	**1-1**
THE	IX 09 22 07 44.9	38.0N	22.9E	9			¶97ix1445
ATH	IX 09 22 07 45.5	37.97N	22.92E	5	2.5L		
ISC	**IX 09 22 21 56**±1.2	**39.2N**±.11	**21.5E**±.13	**26**±19		**10**	**0-3**
ATH	IX 09 22 21 55.9	39.21N	21.61E	22	2.9D		¶97ix1446
THE	IX 09 22 21 56.6	39.1N	21.4E	10			
ISC	**IX 10 00 27 32**±1.7	**38.6N**±.18	**21.3E**±.23	**35**		**4**	**1-2**
ATH	IX 10 00 27 31.2	38.68N	21.31E	35	2.7D		¶97ix1460
ISC	Poorly determined						
ISC	**IX 10 09 18 02.7**±.89	**38.47N**±.037	**21.48E**±.040	**1**±7.8	**3.7b**	**51**	**0-23**
EIDC	IX 10 09 18 02.2	38.5N	22.0E	0	3.6b,4.0L		¶97ix1505
ATH	IX 10 09 18 03.3	38.50N	21.43E	5	3.6L		
THE	IX 10 09 18 03.8	38.5N	21.5E	0	3.6L		

ISC	**IX**	**11 09 45 11.2**±.93	**38.20N**±.068	**23.3E**±.10	**10**		**6**	**0-2**
THE	IX	11 09 45 12.4	38.2N	23.3E	10			**¶97ix1659**
ATH	IX	11 09 45 13.4	38.11N	23.31E	23	2.6L		
ISC	**IX**	**11 16 38 19**±1.1	**40.07N**±.084	**21.5E**±.17	**10**		**5**	**0-2**
ATH	IX	11 16 38 19.6	40.08N	21.58E	10	3.0D		**¶97ix1701**
ISC	**IX**	**11 17 19 16**±1.4	**38.5N**±.12	**21.4E**±.17	**10**		**4**	**0-1**
ATH	IX	11 17 19 16.4	38.57N	21.35E	10	2.7D		**¶97ix1713**
THE	IX	11 17 19 16.7	38.5N	21.4E	10			
ISC	Poorly determined							
ISC	**IX**	**11 19 38 44**±1.3	**39.5N**±.11	**21.5E**±.11	**10**		**4**	**1-1**
THE	IX	11 19 38 44.5	39.5N	21.5E	10	1.9L		**¶97ix1725**
ISC	Poorly determined							
ISC	**IX**	**12 00 36 05**±1.2	**38.34N**±.051	**22.87E**±.080	**5**±12		**13**	**1-3**
THE	IX	12 00 36 06.3	38.3N	22.9E	2	2.4L		**¶97ix1753**
ATH	IX	12 00 36 07.2	38.35N	22.88E	24	2.8L		
ISC	**IX**	**12 16 20 40.0**±.79	**40.69N**±.054	**22.44E**±.071	**4**		**10**	**0-2**
THE	IX	12 16 20 40.8	40.7N	22.5E	4	1.8L		**¶97ix1843**
ISC	**IX**	**12 22 10 28.7**±.63	**39.29N**±.044	**21.68E**±.071	**3**		**12**	**0-2**
THE	IX	12 22 10 30.3	39.3N	21.7E	3	2.3L		**¶97ix1880**
ATH	IX	12 22 10 32.7	39.17N	21.61E	10			
ISC	**IX**	**13 02 12 19**±1.5	**38.31N**±.081	**22.1E**±.20	**9**		**5**	**1-2**
THE	IX	13 02 12 19.2	38.3N	22.1E	9			**¶97ix1896**
ATH	IX	13 02 12 19.6	38.31N	22.13E	10	2.6D		
ISC	**IX**	**13 03 20 28**±1.3	**38.43N**±.090	**21.9E**±.18	**14**		**4**	**0-1**
THE	IX	13 03 20 28.4	38.4N	21.9E	14			**¶97ix1907**
ATH	IX	13 03 20 28.7	38.43N	21.86E	10			
ISC	Poorly determined							
ISC	**IX**	**13 06 01 00**±1.8	**38.39N**±.070	**20.5E**±.25	**5**		**6**	**0-3**
THE	IX	13 06 00 59.7	38.3N	20.2E	0	2.9L		**¶97ix1931**
ATH	IX	13 06 00 59.9	38.34N	20.31E	5	2.9D		
ISC	**IX**	**13 08 09 53**±3.6	**38.3N**±.19	**20.9E**±.40	**5**		**5**	**0-4**
ATH	IX	13 08 09 53.0	38.30N	20.93E	5	3.1D		**¶97ix1952**
ISC	**IX**	**13 08 45 47**±1.4	**40.8N**±.17	**21.7E**±.13	**19**		**4**	**0-1**
THE	IX	13 08 45 47.4	40.8N	21.7E	19	1.8L		**¶97ix1955**
ISC	Poorly determined							
ISC	**IX**	**13 09 54 32.2**±.49	**38.71N**±.037	**23.56E**±.059	**1**		**28**	**1-4**
THE	IX	13 09 54 33.1	38.7N	23.5E	1	2.9L		**¶97ix1962**
ATH	IX	13 09 54 34.9	38.65N	23.55E	18	3.3L		
ISC	**IX**	**13 16 33 41**±1.3	**38.33N**±.051	**22.87E**±.086	**5**±14		**12**	**1-3**
THE	IX	13 16 33 41.8	38.3N	22.9E	5	2.6L		**¶97ix1995**
ATH	IX	13 16 33 43.1	38.21N	22.84E	5	2.9L		
THE	**IX**	**13 18 48 26.2**	**41.0N**	**21.4E**	**10**	**1.6L**		**¶97ix2017**
ISC	**IX**	**14 05 17 55**±1.0	**40.61N**±.083	**23.7E**±.18	**8**		**6**	**0-1**
THE	IX	14 05 17 55.6	40.6N	23.7E	8	2.0L		**¶97ix2073**
ISC	**IX**	**14 08 21 47.0**±.60	**38.43N**±.045	**21.95E**±.073	**4**		**18**	**1-4**
THE	IX	14 08 21 48.9	38.5N	22.0E	4	2.8L		**¶97ix2096**
ATH	IX	14 08 21 50.1	38.37N	21.81E	33	3.0L		
ISC	**IX**	**14 16 30 44**±4.2	**38.3N**±.34	**22.1E**±.15	**33**		**7**	**1-3**
								¶97ix2147
ISC	**IX**	**15 08 18 28**±1.4	**40.12N**±.089	**21.6E**±.14	**10**		**5**	**1-1**
THE	IX	15 08 18 29.2	40.1N	21.6E	10	2.1L		**¶97ix2216**
ISC	**IX**	**15 10 03 04.8**±.57	**38.27N**±.040	**21.34E**±.066	**5**		**25**	**0-4**
ATH	IX	15 10 03 05.2	38.30N	21.35E	5	3.2L		**¶97ix2225**
THE	IX	15 10 03 05.9	38.3N	21.3E	0	3.1L		
ISC	**IX**	**15 11 36 40**±1.3	**39.4N**±.11	**23.0E**±.12	**17**		**4**	**1-1**
THE	IX	15 11 36 40.3	39.4N	23.0E	17	1.6L		**¶97ix2237**
ISC	Poorly determined							
ISC	**IX**	**16 01 40 28.5**±.91	**38.31N**±.057	**22.2E**±.16	**5**		**6**	**1-2**
ATH	IX	16 01 40 30.6	38.31N	22.04E	5	2.7D		**¶97ix2308**
ISC	**IX**	**16 02 37 47.7**±.97	**39.97N**±.048	**22.52E**±.073	**0**±14		**12**	**0-2**
THE	IX	16 02 37 49.1	40.0N	22.5E	3	2.0L		**¶97ix2318**
ISC	**IX**	**16 04 14 29**±3.9	**39.2N**±.22	**22.3E**±.14	**101**±39		**10**	**0-2**
THE	IX	16 04 14 31.0	39.3N	22.2E	85	2.2L		**¶97ix2329**
ISC	**IX**	**16 05 24 04.5**±.76	**39.96N**±.040	**22.51E**±.051	**1**±8.6		**23**	**0-3**
THE	IX	16 05 24 05.9	40.0N	22.5E	10	2.6L		**¶97ix2336**
ATH	IX	16 05 24 05.9	39.97N	22.45E	5	3.0D		
ISC	**IX**	**16 06 05 20**±1.4	**39.2N**±.16	**21.46E**±.095	**8**		**6**	**1-2**
THE	IX	16 06 05 22.1	39.3N	21.4E	8	2.0L		**¶97ix2341**
ISC	**IX**	**16 19 07 09.5**±.65	**39.17N**±.050	**21.71E**±.062	**10**		**15**	**0-3**
ATH	IX	16 19 07 06.2	39.24N	22.15E	10	2.9D		**¶97ix2419**
THE	IX	16 19 07 10.5	39.2N	21.7E	3	2.6L		
ISC	**IX**	**17 09 35 00.6**±.96	**40.84N**±.067	**22.74E**±.089	**10**		**6**	**0-1**
THE	IX	17 09 35 01.2	40.8N	22.7E	10	1.6L		**¶97ix2496**
ISC	**IX**	**17 13 34 11**±6.1	**38.2N**±.15	**20.2E**±.47	**10**±25		**5**	**0-2**
ATH	IX	17 13 34 10.8	38.16N	20.15E	5	3.0D		**¶97ix2513**
ISC	Poorly determined							
ISC	**IX**	**17 14 08 33.9**±.82	**39.12N**±.037	**21.76E**±.049	**3**±8.5		**29**	**0-3**
ATH	IX	17 14 08 35.0	39.07N	21.66E	5	3.4L		**¶97ix2518**
THE	IX	17 14 08 35.9	39.2N	21.8E	7	3.2L		
ISC	**IX**	**17 15 05 16.0**±.64	**40.83N**±.050	**22.75E**±.063	**10**±12		**12**	**0-2**
THE	IX	17 15 05 16.9	40.8N	22.8E	10	2.5L		**¶97ix2524**
ISC	**IX**	**17 17 20 41.8**±.91	**40.84N**±.061	**22.75E**±.080	**0**		**7**	**0-1**
THE	IX	17 17 20 42.5	40.9N	22.8E	0	1.7L		**¶97ix2537**
ISC	**IX**	**17 22 50 57**±1.1	**40.38N**±.070	**22.7E**±.13	**16**		**6**	**0-1**
THE	IX	17 22 50 56.9	40.4N	22.7E	16	1.3L		**¶97ix2568**
ISC	**IX**	**18 14 13 36.2**±.90	**40.54N**±.059	**23.63E**±.092	**10**		**8**	**0-1**
THE	IX	18 14 13 37.0	40.5N	23.7E	10	2.0L		**¶97ix2668**
ISC	**IX**	**18 23 27 18.4**±.66	**39.31N**±.048	**21.75E**±.073	**13**		**13**	**0-2**
ATH	IX	18 23 27 17.6	39.30N	22.02E	13	2.8D		**¶97ix2726**
THE	IX	18 23 27 18.4	39.3N	21.6E	0	2.4L		
ISC	**IX**	**19 12 00 26.7**±.55	**40.05N**±.019	**21.34E**±.016	**5**±3.8	**4.8b,4.5s**	**379**	**0-139**
PDG	IX	19 12 00 24.8	39.6N	21.3E	10	4.9D		**¶97ix2789**
BJI	IX	19 12 00 26.1	39.63N	21.65E	6	5.0b,4.5s		
NEIC	IX	19 12 00 27.0	40.02N	21.33E	10	4.9b,4.5s		
EIDC	IX	19 12 00 27.7	40.0N	21.4E	0	4.7b,4.4s		
THE	IX	19 12 00 28.6	40.0N	21.4E	2	4.5L		
ATH	IX	19 12 00 28.9	40.05N	21.38E	11	4.9L		
MOS	IX	19 12 00 30.3	40.1N	21.4E	44	5.1b,4.5s		

ATH Felt in the regions of Grevena I=V−VI MCS at Sydendro, Vatolakkos, Palaiokastro, V at Grevena, Palaiochori, Mega−Seirinio, Megaro, Kipoureio, Amygdaleai, Spilaio, Trikokkia, Phellio, IV at Knidi; in Kozani, V−VI at Avgerinos, Dryovouni, V at Galatini, Karyditsa, Vatero, Komanos, Charavgi, Proastio, Petrana, Pentalophos, Krokos, Kranidi, Asvestopetra, IV−V at Servia, Livadero, Damaskinea, IV at Perdikkas, Pelekanos, Protochori, Mavrodendri, Mikrokastro, Lava, Kleitos, Kastanea, Drepano, Vathylakkos, Anatoliko, Agia−Paraskevi, III−IV at Emporio, III at Philotas, Sissani, Metaxas, Eratyra, Galateia, Ardassa, Anarrachi, Aliakmon, Ermakia; in Phlorina, IV−V at Vevi, IV at Lechovo, III at Phlorina; in Ioannina, IV−V at Metsovo, IV at Konitsa, Chrysovitsa, Parakalamos, Mega−Peristeri, Katsikas, Anatoli, III at Ioannina, Zitsa; in Kastoria, IV at Argos−Orestiko, Neo−Kostarazi, Mavrochori, Vogatsiko, III at Kastoria, Nestorio; in Trikala, IV at Kalampaka, Kephalovrysso, Theopetra, Vassiliki, Valtino, III at Pyli, Stournaraiika, Neochori, Megalo−Kephalovryso, Kastraki, Gomphoi, Agrelia; in Larissa, IV at Larissa, Livadi, Rodia, Melia, Sykea, Sarantoporo, Kallipefki, Verdikoussa, III−IV at Vlachogianni, III at Pyrgetos, Deleria, Gonnoi; in Pella, IV at Edessa, Daphi, Galatades, III at Athyra; in Imathia, III at Naoussa, Loutro.

ISC	**IX**	**19 13 23 04.1**±.91	**40.03N**±.063	**21.45E**±.087	**8**		**7**	**1-2**
THE	IX	19 13 23 05.3	40.0N	21.5E	8	2.1L		**¶97ix2793**
ISC	**IX**	**19 14 37 49**±2.0	**40.0N**±.12	**21.4E**±.21	**3**		**4**	**1-1**
THE	IX	19 14 37 50.2	40.0N	21.3E	3	2.3L		**¶97ix2801**
ISC	Poorly determined							
ISC	**IX**	**19 16 16 34**±1.8	**40.1N**±.16	**21.4E**±.29	**44**		**4**	**1-1**
THE	IX	19 16 16 34.0	40.0N	21.4E	44	2.0L		**¶97ix2811**
ISC	Poorly determined							
ISC	**IX**	**19 16 25 39**±2.1	**40.15N**±.097	**21.5E**±.21	**10**		**4**	**1-1**
THE	IX	19 16 25 39.1	40.1N	21.5E	10	1.7L		**¶97ix2813**
ISC	Poorly determined							
ISC	**IX**	**19 17 41 12.5**±.92	**39.21N**±.061	**21.34E**±.071	**5**±11		**14**	**0-3**
THE	IX	19 17 41 13.6	39.2N	21.3E	8	2.7L		**¶97ix2821**
ATH	IX	19 17 41 13.9	39.23N	21.30E	22	3.2D		
ISC	**IX**	**19 19 50 24**±2.0	**40.0N**±.12	**21.4E**±.21	**6**		**4**	**1-1**
THE	IX	19 19 50 25.5	40.0N	21.4E	6	2.1L		**¶97ix2835**
ISC	Poorly determined							
ISC	**IX**	**19 20 24 01.1**±.92	**39.15N**±.056	**21.46E**±.048	**5**±8.5		**25**	**0-6**
ATH	IX	19 20 24 01.9	39.13N	21.48E	30	3.4D		**¶97ix2841**
THE	IX	19 20 24 01.9	39.1N	21.4E	10	3.0L		
ISC	**IX**	**20 10 54 10.4**±.96	**40.10N**±.062	**21.45E**±.085	**10**±12		**9**	**1-2**
THE	IX	20 10 54 11.6	40.1N	21.5E	10	2.5L		**¶97ix2934**
ISC	**IX**	**20 23 15 06.7**±.58	**40.65N**±.035	**23.83E**±.049	**3**±8.7		**21**	**0-3**
THE	IX	20 23 15 08.1	40.6N	23.8E	10	2.6L		**¶97ix3010**
ISC	**IX**	**21 21 37 26**±2.7	**39.0N**±.24	**23.4E**±.14	**10**±25		**5**	**0-1**
THE	IX	21 21 37 26.5	38.9N	23.4E	11	2.2L		**¶97ix3168**
ISC	Poorly determined							
ISC	**IX**	**21 22 51 46.4**±.89	**40.55N**±.058	**23.62E**±.090	**0**		**8**	**0-1**
THE	IX	21 22 51 47.1	40.5N	23.6E	0	2.1L		**¶97ix3177**
ISC	**IX**	**21 23 54 19.3**±.87	**38.49N**±.058	**22.0E**±.10	**5**		**16**	**0-4**
ATH	IX	21 23 54 18.1	38.39N	21.70E	5	3.1L		**¶97ix3188**
THE	IX	21 23 54 20.7	38.5N	22.0E	1	2.7L		
ISC	**IX**	**22 04 54 04**±1.3	**38.41N**±.077	**22.3E**±.27	**10**		**4**	**1-2**
THE	IX	22 04 54 04.6	38.4N	22.3E	0			**¶97ix3218**
ATH	IX	22 04 54 05.2	38.39N	22.19E	10	2.6D		
ISC	Poorly determined							
ATH	**IX**	**22 18 31 08.7**	**38.53N**	**23.69E**	**5**	**2.7L**		**¶97ix3314**
THE	IX	22 18 31 10.9	38.3N	24.1E	0			
ISC	**IX**	**22 22 13 48.9**±.51	**38.32N**±.040	**21.85E**±.051	**5**	**3.4b**	**39**	**1-31**
EIDC	IX	22 22 13 48.7	38.5N	22.0E	0	3.6b		**¶97ix3333**
ATH	IX	22 22 13 50.2	38.34N	21.83E	5	3.2L		
THE	IX	22 22 13 51.1	38.3N	22.0E	0	3.0L		
ISC	**IX**	**23 14 21 04**±1.9	**38.1N**±.12	**20.6E**±.24	**10**±16		**6**	**0-3**
ATH	IX	23 14 21 04.1	38.07N	20.60E	5	3.1D		**¶97ix3433**
THE	IX	23 14 21 04.2	38.1N	20.6E	10			
ISC	**IX**	**24 03 31 36**±4.3	**38.8N**±.31	**23.4E**±.16	**3**		**5**	**0-2**
THE	IX	24 03 31 35.9	38.7N	23.5E	3	2.4L		**¶97ix3518**
ISC	**IX**	**25 10 06 49**±3.7	**38.2N**±.11	**20.5E**±.37	**10**		**6**	**0-2**
ATH	IX	25 10 06 48.2	38.08N	20.40E	10	2.9D		**¶97ix3721**
ISC	**IX**	**25 13 07 11**±1.9	**38.35N**±.069	**20.5E**±.22	**5**		**7**	**0-2**
ATH	IX	25 13 07 11.1	38.30N	20.48E	5	3.0D		**¶97ix3745**
THE	IX	25 13 07 11.7	38.3N	20.5E	0	2.8L		
ISC	**IX**	**25 18 14 15**±2.4	**39.0N**±.21	**23.2E**±.13	**4**		**4**	**1-2**
THE	IX	25 18 14 16.2	39.0N	23.1E	4	1.8L		**¶97ix3769**
ISC	Poorly determined							
ISC	**IX**	**26 13 22 14**±3.1	**40.4N**±.18	**21.3E**±.21	**0**		**4**	**0-1**
THE	IX	26 13 22 14.5	40.4N	21.2E	0	1.9L		**¶97ix4017**
ISC	Poorly determined							
ISC	**IX**	**27 02 59 26**±4.9	**40.4N**±.16	**22.3E**±.40	**5**		**4**	**0-2**
ATH	IX	27 02 59 29.3	40.36N	22.26E	5	2.7D		**¶97ix4231**
ISC	Poorly determined							
ISC	**IX**	**27 20 34 20.4**±.42	**39.98N**±.036	**21.55E**±.047	**4**	3.4b	**27**	**0-22**
EIDC	IX	27 20 34 18.5	40.0N	21.9E	0	3.3b,3.5L		**¶97ix4451**
NEIC	IX	27 20 34 21.5	39.95N	21.50E	33			
TIR	IX	27 20 34 21.9	40.11N	21.38E	4	3.0L		
ATH	IX	27 20 34 22.5	40.00N	21.57E	12	3.5D		
NEIC	Poor solution.							
ISC	**IX**	**28 19 52 26**±1.4	**38.40N**±.059	**21.8E**±.18	**5**		**6**	**0-1**
ATH	IX	28 19 52 27.8	38.39N	21.87E	5	3.2D		**¶97ix4748**
THE	IX	28 19 52 27.8	38.4N	21.8E	0			
ISC	**X**	**02 19 17 14**±3.9	**38.43N**±.091	**20.3E**±.37	**5**		**5**	**0-2**
THE	X	02 19 17 14.8	38.5N	20.3E	0			**¶97x0328**
ATH	X	02 19 17 15.4	38.46N	20.33E	5	2.9D		
ISC	**X**	**04 13 01 02**±1.2	**39.86N**±.091	**21.5E**±.11	**14**		**4**	**1-1**
THE	X	04 13 01 03.8	39.9N	21.5E	14	2.0L		**¶97x0650**
ISC	Poorly determined							
ISC	**X**	**04 18 36 28.0**±.75	**38.91N**±.046	**20.71E**±.081	**5**		**16**	**1-3**
ATH	X	04 18 36 29.8	38.95N	20.77E	5	3.2D		**¶97x0703**
THE	X	04 18 36 29.9	39.0N	20.7E	1	2.8L		
ISC	**X**	**04 19 15 38.8**±.70	**38.13N**±.053	**22.75E**±.086	**8**		**12**	**1-3**
THE	X	04 19 15 39.6	38.1N	22.7E	8			**¶97x0710**
ATH	X	04 19 15 39.9	38.13N	22.72E	10	2.8L		
ISC	**X**	**04 23 54 09.3**±.84	**38.94N**±.061	**20.75E**±.075	**1**		**18**	**1-3**
THE	X	04 23 54 10.4	39.0N	20.7E	1	2.7L		**¶97x0765**
ATH	X	04 23 54 10.6	38.93N	20.76E	10	3.3D		
ISC	**X**	**05 00 32 03**±1.2	**40.00N**±.081	**21.41E**±.096	**10**±15		**6**	**1-2**
THE	X	05 00 32 03.8	40.0N	21.4E	5	2.0L		**¶97x0768**
ISC	**X**	**05 00 37 53.0**±.86	**40.03N**±.065	**21.42E**±.082	**15**		**8**	**1-2**
THE	X	05 00 37 54.0	40.0N	21.4E	15	2.1L		**¶97x0769**
ISC	**X**	**05 20 13 51**±3.9	**38.3N**±.28	**21.8E**±.29	**10**		**5**	**1-2**
ATH	X	05 20 13 47.4	38.18N	22.13E	10	2.7D		**¶97x0925**
THE	X	05 20 13 53.0	38.5N	21.7E	1			
ISC	**X**	**06 02 37 11**±1.4	**38.6N**±.14	**21.3E**±.14	**10**		**4**	**0-1**
ATH	X	06 02 37 11.6	38.58N	21.34E	10	2.6D		**¶97x0970**
THE	X	06 02 37 12.1	38.6N	21.3E	15			
ISC	Poorly determined							
ISC	**X**	**06 08 19 40.7**±.79	**38.86N**±.046	**21.61E**±.072	**7**±9.2		**16**	**0-2**
ATH	X	06 08 19 41.9	38.94N	21.56E	6	3.0D		**¶97x1019**
THE	X	06 08 19 42.1	38.9N	21.6E	3	2.5L		
ISC	**X**	**07 09 53 53**±1.5	**40.59N**±.092	**23.4E**±.20	**3**		**4**	**1-1**
THE	X	07 09 53 53.9	40.6N	23.4E	3			**¶97x1223**
ISC	Poorly determined							
ISC	**X**	**07 19 03 38.0**±.96	**39.97N**±.047	**21.43E**±.073	**3**±12		**13**	**0-2**
THE	X	07 19 03 39.3	40.0N	21.4E	14	2.2L		**¶97x1285**
ATH	X	07 19 03 39.8	39.92N	21.51E	5	2.9D		
ISC	**X**	**08 01 19 40.0**±.78	**38.82N**±.058	**21.61E**±.091	**5**		**8**	**0-2**
ATH	X	08 01 19 41.1	38.79N	21.60E	5	2.8D		**¶97x1333**
THE	X	08 01 19 42.5	38.9N	21.7E	9			

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**08 21 23 27**±1.3	**38.51N**±.087	**21.7E**±.17	**10**		**4**	**0-2**
ATH	X	08 21 23 27.2	38.52N	21.68E	10			¶97x1481
ISC		Poorly determined						
THE	**X**	**09 22 51 36.0**	**40.7N**	**23.1E**	**15**	**1.8L**		¶97x1654
ISC	**X**	**10 01 09 59.2**±.79	**40.14N**±.059	**21.50E**±.073	**1**		**11**	**1-2**
THE	X	10 01 10 00.5	40.1N	21.5E	1	2.2L		¶97x1673
ISC	**X**	**10 03 31 12**±1.5	**38.18N**±.084	**20.6E**±.15	**11**±7.6		**11**	**0-3**
ATH	X	10 03 31 13.1	38.11N	20.56E	5	3.0D		¶97x1687
THE	X	10 03 31 13.2	38.1N	20.6E	5			
ISC	**X**	**10 08 12 37.1**±.70	**38.35N**±.048	**22.35E**±.083	**1**		**13**	**1-3**
THE	X	10 08 12 38.3	38.3N	22.4E	1	2.7L		¶97x1720
ATH	X	10 08 12 39.3	38.32N	22.32E	5	3.1D		
ISC	**X**	**10 14 30 18**±1.0	**40.9N**±.12	**21.63E**±.077	**12**		**5**	**0-1**
THE	X	10 14 30 18.0	40.9N	21.6E	12	1.9L		¶97x1759
ISC	**X**	**10 18 30 41**±2.0	**40.56N**±.085	**22.4E**±.30	**19**		**4**	**0-1**
THE	X	10 18 30 41.1	40.6N	22.3E	19	1.7L		¶97x1787
ISC		Poorly determined						
ATH	**X**	**11 04 12 59.8**	**38.18N**	**21.20E**	**67**			¶97x1843
ISC	**X**	**13 03 35 22**±3.7	**38.8N**±.27	**23.2E**±.11	**14**		**6**	**1-2**
THE	X	13 03 35 22.7	38.8N	23.2E	14	2.3L		¶97x2155
ISC	**X**	**13 11 29 00**±1.2	**38.99N**±.065	**20.8E**±.17	**5**		**8**	**1-3**
ATH	X	13 11 29 01.8	38.94N	20.80E	5	3.0D		¶97x2207
ISC	**X**	**13 12 14 48**±13	**39.8N**±.68	**22.6E**±.46	**3**		**4**	**1-1**
THE	X	13 12 14 50.6	39.8N	22.6E	3			¶97x2214
ISC		Poorly determined						
ISC	**X**	**13 14 17 26**±1.8	**39.0N**±.15	**23.18E**±.095	**7**		**7**	**1-5**
THE	X	13 14 17 26.9	39.0N	23.2E	7	2.1L		¶97x2236
ISC	**X**	**13 23 47 41**±4.7	**38.3N**±.34	**22.1E**±.34	**31**		**4**	**1-2**
ATH	X	13 23 47 40.9	38.28N	22.15E	31	2.6D		¶97x2308
ISC		Poorly determined						
ISC	**X**	**14 07 21 41**±1.6	**39.98N**±.099	**21.9E**±.20	**17**		**4**	**1-1**
THE	X	14 07 21 41.5	40.0N	21.8E	17			¶97x2353
ISC		Poorly determined						
ISC	**X**	**15 00 00 56**±4.3	**39.3N**±.19	**22.9E**±.49	**12**		**4**	**1-2**
THE	X	15 00 00 55.0	39.2N	23.1E	12			¶97x2517
ISC		Poorly determined						
ISC	**X**	**15 22 39 19.8**±.60	**38.32N**±.043	**21.83E**±.063	**5**	3.3b	**31**	**1-24**
ATH	X	15 22 39 20.3	38.30N	21.72E	5	3.4L		¶97x2736
THE	X	15 22 39 20.9	38.3N	21.9E	0	3.2L		
ISC	**X**	**16 04 45 27.3**±.93	**40.52N**±.081	**23.5E**±.13	**17**		**6**	**0-1**
THE	X	16 04 45 27.5	40.5N	23.5E	17	2.3L		¶97x2788
ISC	**X**	**17 08 16 23**±1.6	**40.3N**±.17	**21.7E**±.16	**11**±42		**5**	**1-1**
THE	X	17 08 16 24.3	40.3N	21.7E	10			¶97x2947
ISC		Poorly determined						
THE	**X**	**17 09 01 36.4**	**40.5N**	**21.8E**	**11**			¶97x2952
ISC	**X**	**17 19 52 12**±4.3	**38.8N**±.31	**23.5E**±.16	**3**		**5**	**0-2**
THE	X	17 19 52 08.8	38.5N	23.6E	3			¶97x3052
ISC	**X**	**18 22 37 08.1**±.67	**38.11N**±.052	**22.84E**±.078	**6**		**12**	**1-3**
THE	X	18 22 37 09.0	38.1N	22.8E	6			¶97x3246
ATH	X	18 22 37 09.6	38.08N	22.81E	10	2.8L		
ATH	**X**	**18 22 39 05.1**	**38.26N**	**21.56E**	**10**			¶97x3247
ISC	**X**	**19 00 04 33.8**±.88	**40.54N**±.058	**23.57E**±.093	**9**		**7**	**0-1**
THE	X	19 00 04 34.5	40.5N	23.6E	9	2.0L		¶97x3262
ISC	**X**	**19 00 13 32**±3.0	**38.4N**±.11	**21.6E**±.15	**2**±34		**5**	**1-2**
ATH	X	19 00 13 33.2	38.34N	21.66E	5	2.9D		¶97x3263
THE	X	19 00 13 33.5	38.3N	21.7E	1			
ISC		Poorly determined						
ISC	**X**	**20 00 29 55**±1.9	**38.5N**±.12	**21.6E**±.42	**36**		**4**	**0-2**
ATH	X	20 00 29 54.9	38.53N	21.62E	36	2.8D		¶97x3410
ISC		Poorly determined						
ISC	**X**	**20 04 24 42.2**±.80	**39.87N**±.058	**22.18E**±.073	**3**		**9**	**0-2**
THE	X	20 04 24 43.4	39.9N	22.2E	3	2.1L		¶97x3436
ISC	**X**	**20 12 13 04**±1.9	**40.8N**±.16	**21.2E**±.16	**7**±13		**6**	**0-1**
THE	X	20 12 13 04.1	40.8N	21.1E	2	2.2L		¶97x3494
ISC	**X**	**20 23 57 40**±1.1	**40.82N**±.079	**21.20E**±.086	**4**±12		**8**	**0-1**
THE	X	20 23 57 43.0	40.7N	21.3E	6	2.2L		¶97x3577
ISC	**X**	**21 00 29 19.8**±.75	**40.75N**±.051	**22.85E**±.076	**12**		**13**	**0-4**
THE	X	21 00 29 20.6	40.8N	22.8E	12	2.3L		¶97x3581
ATH	X	21 00 30 42.0	37.78N	21.14E	7	2.8D		
ISC	**X**	**21 17 57 46.2**±.40	**39.04N**±.020	**22.06E**±.017	**26**±3.4	**4.7b,4.4s**	**319**	**0-131**
BJI	X	21 17 57 44.1	38.66N	21.57E	45	4.8b,4.9s		¶97x3690
NEIC	X	21 17 57 44.7	39.01N	22.06E	15	4.9b,4.4s		
MOS	X	21 17 57 45.4	39.0N	22.1E	18	5.3b,4.4s		
ATH	X	21 17 57 45.4	38.98N	22.11E	5	4.2L		
EIDC	X	21 17 57 46.2	39.0N	22.2E	17	4.5b,4.1s		
THE	X	21 17 57 46.5	39.0N	22.1E	14	4.2L		
PDG	X	21 17 57 47.1	38.9N	21.9E	9	4.6D		
NEIC		Felt in many parts of Thessalia.						
ATH		Felt in the regions of Evrytania, I=V−VI MCS at Karoplesio, Phournas, IV at Karpenisi, Raptopoulo, Anatoliki, Phrankista, Agrapha; in Phthiotida, V at Phteri, Makrakomi, Archani, Omvriaki, Giannitsou, IV−V at Ekkara, Agios−Georgios, IV at Lamia, Spercheiada, Phrantzis, Tymphristos, Skarpheia, Stirphaka, Palaiovracha, Platystomo, Perivoli, Pournari, Palamas, Mexiates, Mesopotamia, Bralos, Leianokladi, Kastri, Kolaka, Ladikou, Divri, Tragana, III at Ypati, Renkini, Pavliani, Xyniada, Megaplatanos, Mendenitsa, Mantasia, Karavomylos, Karyes, Karya−Lokridos, Kamena−Vourla, Zelio, Exarchos, Domokos, Atalanti, Agios−Konstantinos, Amphikleia; in Karditsa, IV at Anavra, Sophades, Palamas, Oxya, Mavrommati, Mitropoli, Karditsa, Anthiro, Agnantero, Neochori, III at Mouzaki, Phyllo, Kalliphonio, Drakotrypa, Artesiano, Karpochori; in Aitoloakarnania, IV at Pappadatos, III at Amphilochia, Vonitsa, Nafpaktos, Panaitolio; in Phokida, III at Delphoi, Galaxeidi, Desphina.							
ISC	**X**	**21 19 52 46**±1.6	**39.1N**±.12	**22.1E**±.11	**9**±15		**7**	**0-2**
THE	X	21 19 52 47.1	39.1N	22.1E	8	2.3L		¶97x3694
ISC	**X**	**21 22 04 22.4**±.83	**39.00N**±.040	**22.07E**±.051	**7**±7.6		**31**	**0-4**
ATH	X	21 22 04 23.6	38.94N	22.03E	7	3.2L		¶97x3706
THE	X	21 22 04 25.1	39.0N	22.2E	14	2.9L		
ISC	**X**	**21 22 43 26**±1.2	**40.03N**±.070	**21.7E**±.11	**5**		**9**	**1-2**
THE	X	21 22 43 28.5	40.1N	21.8E	5	2.3L		¶97x3710
ISC	**X**	**21 23 03 59.3**±.81	**40.76N**±.060	**23.11E**±.074	**5**		**7**	**0-1**
THE	X	21 23 03 59.8	40.8N	23.1E	5	1.8L		¶97x3714
ISC	**X**	**22 03 19 44.3**±.45	**38.81N**±.035	**20.65E**±.047	**5**		**37**	**1-6**
ATH	X	22 03 19 45.3	38.86N	20.65E	5	3.8L		¶97x3745
THE	X	22 03 19 45.7	38.9N	20.6E	0	3.3L		
ISC	**X**	**22 03 52 31**±3.4	**38.3N**±.11	**22.2E**±.22	**1**±49		**5**	**1-2**
THE	X	22 03 52 32.6	38.3N	22.1E	7			¶97x3748
ATH	X	22 03 52 32.9	38.28N	22.16E	10	2.8D		
ISC		Poorly determined						
ISC	**X**	**23 09 56 36**±1.2	**40.8N**±.17	**21.7E**±.12	**21**		**4**	**0-1**
THE	X	23 09 56 37.0	40.8N	21.7E	21			¶97x3964
ISC		Poorly determined						
ISC	**X**	**23 11 50 42**±6.5	**40.2N**±.49	**22.8E**±.31	**21**		**4**	**0-1**
THE	X	23 11 50 45.2	40.5N	22.7E	21			¶97x3988
ISC		Poorly determined						
ISC	**X**	**23 13 18 09**±1.0	**40.48N**±.041	**21.23E**±.071	**1**±11		**15**	**0-2**
ATH	X	23 13 18 09.3	40.61N	21.21E	5	2.9D		¶97x4003
THE	X	23 13 18 10.3	40.5N	21.2E	8	2.4L		
ISC	**X**	**23 18 33 10.0**±.81	**40.51N**±.064	**23.53E**±.096	**16**		**9**	**0-1**
THE	X	23 18 33 10.1	40.5N	23.5E	16	2.1L		¶97x4044
ISC	**X**	**23 20 25 07**±1.3	**40.74N**±.071	**23.5E**±.14	**11**		**5**	**0-1**
THE	X	23 20 25 07.7	40.8N	23.5E	11	1.7L		¶97x4057
ISC	**X**	**24 04 23 08.5**±.88	**40.47N**±.058	**22.95E**±.086	**10**		**7**	**0-1**
THE	X	24 04 23 09.2	40.5N	23.0E	10			¶97x4108
ISC	**X**	**24 05 58 18.4**±.85	**40.48N**±.056	**22.96E**±.083	**15**		**8**	**0-1**
THE	X	24 05 58 19.2	40.5N	23.0E	15			¶97x4114
ISC	**X**	**25 13 44 03**±1.1	**40.43N**±.074	**23.9E**±.14	**2**		**6**	**0-1**
THE	X	25 13 44 03.5	40.4N	23.9E	2	2.5L		¶97x4329
ISC	**X**	**25 23 02 03**±1.0	**38.28N**±.068	**21.8E**±.13	**5**		**5**	**1-2**
ATH	X	25 23 02 04.8	38.31N	21.67E	5	2.8D		¶97x4383
ISC	**X**	**26 02 55 10.6**±.69	**40.45N**±.046	**23.96E**±.068	**5**±9.4		**14**	**0-2**
THE	X	26 02 55 12.0	40.4N	23.9E	9	2.7L		¶97x4406
ISC	**X**	**26 05 48 20.9**±.89	**40.87N**±.064	**23.59E**±.083	**10**		**8**	**0-1**
THE	X	26 05 48 21.8	40.9N	23.6E	10	2.1L		¶97x4422
ISC	**X**	**26 07 23 56**±1.0	**40.29N**±.068	**23.02E**±.092	**12**		**6**	**0-1**
THE	X	26 07 23 57.0	40.3N	23.0E	12	2.2L		¶97x4431
ISC	**X**	**27 02 14 14**±1.1	**40.57N**±.062	**23.8E**±.11	**3**		**8**	**0-1**
THE	X	27 02 14 15.0	40.6N	23.8E	3	2.3L		¶97x4555
ISC	**X**	**27 04 22 40.8**±.46	**38.36N**±.038	**22.06E**±.044	**5**	**3.7b**	**46**	**1-24**
EIDC	X	27 04 22 37.7	38.2N	22.7E	0	3.6b,3.5L		¶97x4570
NEIC	X	27 04 22 41.2	38.16N	22.23E	33	3.8b		
ATH	X	27 04 22 41.6	38.38N	22.01E	5	3.2L		
THE	X	27 04 22 41.7	38.4N	22.1E	0	3.2L		
NEIC		Less reliable solution.						
ISC	**X**	**27 07 19 51**±1.8	**39.0N**±.15	**23.28E**±.085	**4**±14		**10**	**0-2**
THE	X	27 07 19 52.3	39.0N	23.3E	5	2.5L		¶97x4582
ISC	**X**	**27 08 25 04**±1.2	**38.30N**±.084	**21.7E**±.16	**2**		**4**	**1-2**
ATH	X	27 08 25 05.1	38.32N	21.72E	2	2.9D		¶97x4590
ISC		Poorly determined						
ISC	**X**	**27 19 22 13.6**±.81	**40.49N**±.054	**23.10E**±.075	**2**		**8**	**0-1**
THE	X	27 19 22 14.4	40.5N	23.1E	2	1.5L		¶97x4648
ISC	**X**	**27 19 24 28.1**±.87	**40.51N**±.056	**23.09E**±.087	**8**		**7**	**0-1**
THE	X	27 19 24 28.8	40.5N	23.1E	8	1.3L		¶97x4649
ISC	**X**	**27 21 15 52.6**±.69	**40.36N**±.046	**22.95E**±.071	**8**±11		**12**	**0-1**
THE	X	27 21 15 53.5	40.3N	22.9E	7	2.1L		¶97x4659
ISC	**X**	**27 21 19 33.4**±.90	**40.36N**±.056	**22.95E**±.080	**3**		**8**	**0-1**
THE	X	27 21 19 34.2	40.3N	23.0E	3	1.5L		¶97x4660
ISC	**X**	**27 21 47 24.4**±.93	**40.35N**±.060	**22.96E**±.084	**5**		**7**	**0-1**
THE	X	27 21 47 25.3	40.3N	23.0E	5	1.4L		¶97x4662
ISC	**X**	**27 22 38 15.6**±.93	**40.34N**±.060	**22.94E**±.083	**3**		**7**	**0-1**
THE	X	27 22 38 16.5	40.4N	22.9E	3	1.4L		¶97x4668
ISC	**X**	**28 07 25 25.5**±.51	**38.47N**±.038	**23.97E**±.059	**3**		**25**	**1-4**
THE	X	28 07 25 26.5	38.5N	23.9E	3	3.0L		¶97x4724
ATH	X	28 07 25 26.9	38.40N	23.99E	5	3.4L		
ISC	**X**	**28 12 14 09**±1.1	**39.45N**±.097	**21.1E**±.10	**5**		**6**	**0-2**
ATH	X	28 12 14 10.7	39.49N	21.03E	5	2.9D		¶97x4760
ISC	**X**	**28 22 10 32.0**±.77	**40.28N**±.044	**22.53E**±.060	**0**±11		**14**	**0-2**
THE	X	28 22 10 33.0	40.3N	22.5E	14	2.1L		¶97x4823
ATH	X	28 22 10 33.3	40.40N	22.44E	10	2.8D		
ISC	**X**	**30 01 05 51.0**±.64	**38.18N**±.051	**23.23E**±.077	**1**		**13**	**0-3**
THE	X	30 01 05 52.0	38.2N	23.2E	1			¶97x4969
ATH	X	30 01 05 52.8	38.11N	23.19E	5	3.0L		
ATH	**X**	**31 07 53 01.0**	**38.25N**	**21.92E**	**5**			¶97x5154
ISC	**X**	**31 11 46 10**±1.3	**38.36N**±.088	**20.5E**±.16	**24**±13		**8**	**0-3**
ATH	X	31 11 46 10.3	38.34N	20.46E	25	3.1D		¶97x5172
THE	X	31 11 46 10.5	38.3N	20.4E	25			
ISC	**X**	**31 14 43 33**±1.9	**38.52N**±.087	**22.12E**±.087	**8**±20		**8**	**0-2**
ATH	X	31 14 43 33.8	38.38N	22.03E	5	3.1L		¶97x5193
THE	X	31 14 43 34.5	38.5N	22.3E	4			
ISC	**X**	**31 18 02 13.2**±.86	**40.60N**±.056	**23.41E**±.084	**12**±13		**9**	**0-1**
THE	X	31 18 02 13.8	40.6N	23.4E	15	2.4L		¶97x5212
ISC	**XI**	**01 03 31 46**±2.9	**39.0N**±.22	**23.6E**±.15	**8**±16		**8**	**0-2**
THE	XI	01 03 31 46.2	38.9N	23.7E	15	2.2L		¶97xi0024
THE	**XI**	**01 07 28 16.1**	**40.9N**	**23.0E**	**10**	**1.4L**		¶97xi0040
ISC	**XI**	**01 09 03 59**±1.3	**40.9N**±.11	**23.0E**±.12	**29**±16		**6**	**0-1**
THE	XI	01 09 04 00.2	40.9N	23.0E	15	1.7L		¶97xi0049
ISC	**XI**	**01 11 47 32**±2.4	**40.5N**±.15	**21.3E**±.16	**10**		**6**	**0-1**
THE	XI	01 11 47 32.5	40.5N	21.2E	10			¶97xi0076
ISC	**XI**	**01 14 32 07**±1.5	**40.2N**±.13	**21.6E**±.20	**10**		**4**	**1-1**
THE	XI	01 14 32 08.4	40.2N	21.6E	10	2.0L		¶97xi0094
ISC		Poorly determined						
ISC	**XI**	**02 07 42 56**±1.4	**38.50N**±.080	**20.5E**±.14	**5**		**11**	**1-4**
ATH	XI	02 07 42 58.5	38.57N	20.62E	5	3.1D		¶97xi0217
ISC	**XI**	**02 07 54 56**±1.1	**38.61N**±.052	**20.42E**±.049	**23**±10	**3.5b**	**55**	**1-45**
ATH	XI	02 07 54 55.7	38.56N	20.61E	5	3.7L		¶97xi0218
PDG	XI	02 07 54 55.9	38.5N	19.3E	13	3.6L		
NEIC	XI	02 07 54 57.0	39.09N	20.59E	10			
EIDC	XI	02 07 54 59.9	39.1N	20.7E	15	3.6b,3.9L		
NEIC		Less reliable solution.						
ISC	**XI**	**02 15 55 42.0**±.83	**40.69N**±.060	**23.35E**±.086	**10**		**7**	**0-1**
THE	XI	02 15 55 43.0	40.7N	23.4E	10	1.9L		¶97xi0296
ISC	**XI**	**02 21 31 53**±1.9	**38.33N**±.091	**22.3E**±.24	**10**		**4**	**1-1**
ATH	XI	02 21 31 53.3	38.36N	22.34E	10	2.7D		¶97xi0339
ISC		Poorly determined						
ISC	**XI**	**02 21 32 43**±1.3	**38.37N**±.091	**21.9E**±.18	**10**		**4**	**1-1**
ATH	XI	02 21 32 45.2	38.35N	21.80E	10	2.7D		¶97xi0341
ISC		Poorly determined						
ISC	**XI**	**03 02 47 25.2**±.66	**38.43N**±.053	**22.29E**±.055	**20**		**33**	**1-7**
ATH	XI	03 02 47 25.6	38.48N	22.15E	20	3.5L		¶97xi0383
THE	XI	03 02 47 27.2	38.6N	22.3E	10	2.9L		
ISC	**XI**	**03 10 03 52**±5.5	**40.4N**±.15	**22.7E**±.45	**0**		**4**	**0-1**
THE	XI	03 10 03 55.0	40.5N	22.8E	0	1.5L		¶97xi0452
ISC		Poorly determined						
ISC	**XI**	**03 13 06 34**±1.3	**38.45N**±.093	**21.8E**±.18	**5**		**4**	**0-2**
ATH	XI	03 13 06 34.8	38.42N	21.88E	5	2.9D		¶97xi0467
ISC		Poorly determined						
ATH	**XI**	**04 04 10 30.8**	**38.33N**	**22.20E**	**5**	**2.7D**		¶97xi0573
ISC	**XI**	**04 06 12 00**±1.3	**39.3N**±.12	**23.0E**±.12	**18**		**4**	**1-1**
THE	XI	04 06 12 00.0	39.2N	23.0E	18	2.2L		¶97xi0588
ISC		Poorly determined						
ISC	**XI**	**04 10 30 30**±1.4	**38.30N**±.031	**23.47E**±.031	**5**±11	**4.0b**	**85**	**0-72**
NEIC	XI	04 10 30 29.5	38.30N	23.51E	10			¶97xi0617
THE	XI	04 10 30 31.0	38.4N	23.6E	0	3.8L		

ATH	XI	04 10 30 32.9	38.14N	23.39E	24	3.9L				
EIDC	XI	04 10 30 38.5	38.5N	23.4E	72	3.8b,3.9L				
PDG	XI	04 10 30 38.5	38.6N	22.7E	13	4.0L				
NEIC	Felt in the Athens area and in some parts of western Greece.									
ISC	**XI**	**04 10 32 46.4**±.62	**38.30N**±.074	**23.53E**±.065	**5**	4.0b		**17**	**0-24**	
ATH	XI	04 10 32 47.5	38.33N	23.68E	5	3.8L				**¶97xi0618**
ISK	XI	04 10 32 58.0	38.01N	24.51E	9	3.8D				
ISC	**XI**	**04 10 43 43**±1.7	**38.37N**±.070	**23.5E**±.11	**11**±15			**8**	**0-2**	
THE	XI	04 10 43 44.8	38.3N	23.5E	30					**¶97xi0621**
ATH	XI	04 10 43 45.9	38.12N	23.71E	34	2.8L				
ISC	**XI**	**04 11 19 21.4**±.79	**38.39N**±.052	**23.47E**±.069	**27**±10			**16**	**0-3**	
THE	XI	04 11 19 21.3	38.3N	23.5E	20	2.9L				**¶97xi0624**
ATH	XI	04 11 19 22.0	38.34N	23.43E	25	3.5L				
ISC	**XI**	**04 13 31 37.1**±.61	**38.33N**±.050	**23.59E**±.093	**20**			**13**	**0-3**	
ATH	XI	04 13 31 38.2	38.23N	23.60E	20	3.3L				**¶97xi0645**
ISC	**XI**	**04 16 09 01.4**±.91	**38.30N**±.060	**23.52E**±.092	**16**±15			**10**	**0-2**	
THE	XI	04 16 09 01.3	38.1N	23.6E	28	2.8L				**¶97xi0662**
ATH	XI	04 16 09 03.3	38.20N	23.50E	30	3.4L				
ISC	**XI**	**04 19 31 52**±1.2	**40.79N**±.085	**23.0E**±.12	**0**			**4**	**0-0**	
THE	XI	04 19 31 52.6	40.8N	23.0E	0	1.8L				**¶97xi0679**
ISC	Poorly determined									
ISC	**XI**	**05 04 53 26**±1.4	**40.80N**±.085	**23.0E**±.14	**0**			**4**	**0-1**	
THE	XI	05 04 53 26.4	40.8N	23.0E	0	1.8L				**¶97xi0732**
ISC	Poorly determined									
ATH	**XI**	**05 06 38 31.6**	**38.36N**	**21.61E**	**10**					**¶97xi0745**
ATH	**XI**	**05 08 37 10.5**	**38.90N**	**21.09E**	**10**	**3.1D**				**¶97xi0756**
ISC	**XI**	**05 10 27 52.2**±.57	**38.31N**±.024	**23.43E**±.022	**23**±5.3	**4.4b**,4.3S		**192**	**0-130**	
NEIC	XI	05 10 27 50.3	38.29N	23.44E	10	4.5b				**¶97xi0770**
EIDC	XI	05 10 27 53.9	38.3N	23.4E	26	4.2b,4.4L				
ATH	XI	05 10 27 54.0	38.24N	23.52E	26	4.0L				
THE	XI	05 10 27 55.7	38.4N	23.6E	20	4.1L				
PDG	XI	05 10 27 59.6	38.4N	22.2E	13	4.6L				
NEIC	Felt at Athens.									
ISC	**XI**	**05 10 31 51**±1.1	**38.33N**±.029	**23.54E**±.044	**9**±8.3	**4.0b**		**60**	**0-72**	
NEIC	XI	05 10 31 52.1	38.38N	23.54E	10	4.4b				**¶97xi0772**
EIDC	XI	05 10 31 53.5	38.5N	23.2E	13	3.8b,4.1L				
ATH	XI	05 10 31 53.7	38.26N	23.49E	20	3.9L				
THE	XI	05 10 31 55.4	38.4N	23.5E	20	3.7L				
ISC	**XI**	**05 10 35 20**±1.1	**38.33N**±.031	**23.56E**±.044	**11**±8.7	**3.8b**		**53**	**0-44**	
EIDC	XI	05 10 35 18.6	38.4N	23.3E	0	3.9b,3.5L				**¶97xi0774**
NEIC	XI	05 10 35 19.3	38.33N	23.54E	10					
THE	XI	05 10 35 21.9	38.4N	23.6E	15	3.4L				
ATH	XI	05 10 35 22.9	38.17N	23.58E	25	3.7D				
ISC	**XI**	**05 11 33 27**±1.4	**38.50N**±.078	**22.1E**±.16	**7**±17			**9**	**0-2**	
ATH	XI	05 11 33 27.9	38.58N	21.95E	47	3.3L				**¶97xi0787**
ISC	**XI**	**05 11 57 33**±1.1	**38.2N**±.10	**23.6E**±.13	**38**			**7**	**0-2**	
ATH	XI	05 11 57 33.7	38.11N	23.57E	38	3.3L				**¶97xi0789**
ISC	**XI**	**05 14 11 34.8**±.72	**38.36N**±.056	**23.53E**±.068	**5**			**11**	**0-3**	
ATH	XI	05 14 11 36.4	38.28N	23.45E	5	3.0L				**¶97xi0814**
THE	XI	05 14 11 37.9	38.4N	23.5E	10	2.5L				
ISC	**XI**	**05 20 25 33.0**±.92	**38.31N**±.055	**23.6E**±.13	**10**			**10**	**0-3**	
NEIC	XI	05 20 25 34.7	38.22N	23.49E	10					**¶97xi0858**
ATH	XI	05 20 25 35.4	38.19N	23.39E	5	3.1L				
NEIC	Single network solution.									
ISC	**XI**	**05 21 10 27.5**±.64	**38.41N**±.018	**22.28E**±.015	**13**±4.1	**5.4b,5.4s**		**565**	**1-145**	
BJI	XI	05 21 10 27.8	38.23N	21.98E	39	5.3b,5.5s				**¶97xi0864**
THE	XI	05 21 10 28.3	38.4N	22.5E	0	4.8L				
ATH	XI	05 21 10 28.3	38.34N	22.31E	3	4.9L				
NEIC	XI	05 21 10 28.6	38.44N	22.28E	24	5.5b,5.4s				
MOS	XI	05 21 10 29.8	38.4N	22.3E	33	5.7b,5.2s				
CSEM	XI	05 21 10 30.6	38.58N	22.33E	20					
EIDC	XI	05 21 10 31.1	38.5N	22.3E	29	5.0b,4.8L				
PDG	XI	05 21 10 31.2	38.3N	21.2E	10	5.7D				
HRVD	XI	05 21 10 32.4±.3	38.11N±.05	22.49E±.07	15					

ATH Felt in the regions of Phokida, I=V–VI MCS at Itea, Lidoriki, Penteoria, Malandrinos, Desphina, Pentapoli, Amygdalea, Kastelli, Vounichora, V at Galaxeidi, Elaionas, Gravia, Chrysso, Managouli, Agia–Efthymia, Kallithea, Glyphada, Prosilio, Sernikaki, Krokyleio, Eptalophos, Erateini, IV–V at Drosochori, Potidania, IV at Marathias; in Boeotia, V–VI at Antikyra, V at Arachova, Agios–Dimitrios, Parorio, IV–V at Kaparelli, Elaionas, Mavrommati, IV at Thivai, Distomo, Agios–Georgios, Agios–Ioannis, Prodromos, Neochoraki, Schimatari, Koroneia, Orchomenos, Oinophyta, Agios–Vlassios, Agia–Triada, Asopia, Ypsilantis, III at Agios–Thomas, Ellopia.

ATH Felt in the regions of in Aitoloakarnania, I=V MCS at Spolaita, Sitaralona, Antirrio, Grammatikou, Kato–Kerasovo, IV–V at Palaiokarya, Sargiada, IV at Nafpaktos, Messarista, Thyrio, Agios–Thomas, Galatas, Analipsi, Lysimacheia, Ampelaki, Plagia, Lepenou, Agios–Vlassios, Kataphygio, Kainourgio, Empessos, Dokimio, Petrochori, Drymonas, Koniska, Avarikos, Katochi, Pappadatos, Phyteies, Vomvokou, Xiropigado, Monastiraki, Angelokastro, Konopina, Agios–Nikolaos, Myrtea, Kechrinia, Ano–Kerasovo, III–IV at Drymos, III at Amphilocheia, Gavalou, Stratos, Sparto, Vasilopoulo, Petrona, Evinochori, Paravola, Panaitolio, Agios–Konstantinos, Chrysovergi, Varetada, Patiopoulo, Rigani, Arachova, Mataranka, Paliampela, II at Menidi; in Korinthia, V at Velo, Zemeno, Diminio, Pitsa, IV–V at Nemea, Galataki, IV at Korinthos, Kiato, Loutraki, Examilia, Xylokeriza, Athikia, Goura, Kalyvia, Sophiko, Archaia–Nemea, Kephalari, Kaisareia, Panaritio, Lukoporia, Kryoneri, Isthmia, Solomos, Archaies–Kleones, III–IV at Vochaiko, III at Lafka, Kamari, Psari, Agios–Vasileios.

ATH Felt in the regions of Achaia, I=V MCS at Zarouchla, Daphnes, Kerpini, IV at Daphni, Ovria, Livartzi, Sagaiika, Kounina, Kalousio, Kouteli, Aigeira, Kertezi, Kalliphonio, Mintiloglio, Myrtos, Diakophto, Rododaphni, Keryneia, Longos, Kankadi, Skepasto, Ano–Diakophto, Kamares, Kalphas, Temeni, Kato–Vlassia, Phlokas, Rio, Ziria, Philia, Manesi, Vrachnaiika, Stratochori, Alissos, Isoma, Planitero, III at Priolithos, Aroania, Drosia, Krinophyta, Lagovouni, Kalentzi, Lousika; in Evrytania, V at Mesokomi, Monastiraki, Ampelia, IV at Karpenisi, Proussos, Raptopoulo, Domianoi, Vracha, Stenoma, Krikello, Vrangiana, Neraida, III at Phourna, Topoliana; in Phthiotida, V at Amphikleia, Ypati, Palamas, Giannitsou, Leianokladi, Stirphaka, Makrakomi, IV–V at Kammena–Vourla, Bralos, Archanio, IV at Lamia, Stylida, Domokos, Kato–Tithorea, Modi, Martino, Xyniada, Kolaka, Tymphristos, Phteri, Ladikou, Thermopyles, Phrantzis, Kastri, Vardali, Agios–Serapheim, Skarpheia, Kainourgio, Mendenitsa, Renkinio, Messopotamia, Zelio, Karyes, Roditsa, Elateia, Divri, Megaplatanos, Livanates, Glypha, Agnanti, Agios–Konstantinos, Perivoli, Palaiokerassia, Pournari, Neo–Monastiraki, Pavliani, III at Atalanti, Ekkara, Spercheiada, Karavomylos, Mantassia.

ATH Felt in the regions of Karditsa, I=IV MCS at Palamas, Mouzaki, Sophades, Mavrommati, Kalliphonio, Phyllo, Koskinas, Karpochori, Artessiano, Leontari, Neochori, Mitropoli, III at Mataranka, Drakotrypa, Makrychori, Trikala, IV at Pyli, Neochori, Vassiliki, Megala–Kalyvia, III at Kalampaka; in Larisa, IV at Larisa, Elassona, Tyrnavos, III at Rapsani, Agia, Argyropouleio, Pyrgetos; in Argolida, IV at Nafplio, Assini, Agia–Triada, III–V at Karya, III at Lygourio, Nea–Kios; in Arkadia, IV at Vytina, Valtessiniko, III at Tripoli, Leonidio, Megalopoli, Astros, Tropaia, Agios–Petros; in Heleia, IV at Pelopio, III at Goumero; in Arta, IV at Arta, Petas, III at Ammotopos; in Lakonia III at Sparti, Kastoreio; in Preveza, III at Rizovouni, Agia; in Messinia, III at Philiatra, Gargalianoi; in Ioannina, III at Metsovo, II–III at Perama; in Grevena, III at Mega–Seirinio; and on the Islands of Euboea, IV at Psachna, Agios, Amarynthos, Neos–Pyrgos, Mytikas, III at Kymi, Agia–Anna, Agios–Loukas, Makrykapa, Mantoudi; on Lefkada, IV at Karya; on Kerkyra, IV at Karoussades, III at Kerkyra, Agios–Matthaios; on Zakynthos, III at Zakynthos, Mouzaki; on Kephallinia, III at Pharaklata.

NEIC Mw5.6(HRV)

NEIC Mw 5.5 (GS). ML 4.9 (ATH). Power outages occurred in the Galaxidhion and Itea areas. Felt in central and northern Greece.

NEIC Moment tensor solution: s9, scale 10^{17}Nm; M_{rr}−1.46; $M_{\theta\theta}$1.56; $M_{\phi\phi}$−0.10; $M_{r\theta}$0.03; $M_{r\phi}$0.97; $M_{\theta\phi}$−0.97. Depth 21km; Principal axes: T 2.05,Plg7°,Azm207°; N −0.01,Plg30°, Azm301°; P −2.04,Plg59°,Azm106°. Best double couple: $M_0$2.0×10^{17}Nm; NP1:ϕ_S267°,δ47°, λ−134°. NP2:ϕ_S142°,δ59°,λ−54°.

CSEM Mw5.6. M_0=3.3±1.8×10^{17}Nm. Fault plane solution NP1:ϕ_S306°,δ49°,λ−73°. NP2:ϕ_S101°, δ44°,λ−109°. Principal Axes: T Plg3°,Azm24°; N Plg13°,Azm115°; P Plg77°,Azm282°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c32; Mantle waves: s7,c8; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.67±.12; $M_{\theta\theta}$1.55±.08; $M_{\phi\phi}$0.12±.16; $M_{r\theta}$1.65±.46; $M_{r\phi}$−0.15±.42; $M_{\theta\phi}$−1.68±.12. Principal Axes: T 3.12,Plg17°,Azm30°; N −0.63,Plg24°,Azm292°; P −2.49,Plg59°,Azm152°. Best double couple: $M_0$2.8×10^{17}Nm, NP1:ϕ_S152°,δ35°,λ−44°. NP2:ϕ_S281°,δ67°,λ−117°.

ISC	**XI**	**05 21 17 23**±1.3	**38.3N**±.13	**21.9E**±.16	**25**			**4**	**0-1**	
ATH	XI	05 21 17 23.9	38.14N	21.85E	25	3.0D				**¶97xi0867**
ISC	Poorly determined									
ISC	**XI**	**05 21 18 51**±1.3	**38.4N**±.12	**22.1E**±.16	**35**			**4**	**1-1**	
ATH	XI	05 21 18 51.3	38.38N	22.17E	35	3.1D				**¶97xi0868**
ISC	Poorly determined									
ISC	**XI**	**05 22 18 24**±1.0	**38.34N**±.041	**22.36E**±.065	**1**±10			**18**	**1-3**	
NEIC	XI	05 22 18 24.7	38.36N	22.30E	10					**¶97xi0873**
ATH	XI	05 22 18 26.1	38.30N	22.29E	5	3.1L				
THE	XI	05 22 18 27.6	38.4N	22.4E	10	2.7L				
NEIC	Single network solution.									
ISC	**XI**	**05 22 31 43**±1.3	**38.4N**±.12	**22.2E**±.16	**30**			**4**	**1-1**	
ATH	XI	05 22 31 43.7	38.39N	22.16E	30	3.0L				**¶97xi0874**
ISC	Poorly determined									
ISC	**XI**	**05 22 52 30**±1.3	**38.4N**±.11	**22.1E**±.15	**30**			**4**	**1-1**	
ATH	XI	05 22 52 31.2	38.39N	22.12E	30	3.0L				**¶97xi0876**
ISC	Poorly determined									
ISC	**XI**	**05 23 50 26**±1.1	**38.35N**±.053	**22.22E**±.091	**26**±14			**13**	**1-3**	
NEIC	XI	05 23 50 25.5	38.35N	22.18E	10					**¶97xi0885**
ATH	XI	05 23 50 27.0	38.32N	22.19E	15	3.0L				
NEIC	Single network solution.									
ISC	**XI**	**06 00 18 50.7**±.98	**38.38N**±.045	**22.33E**±.068	**5**±11			**16**	**1-3**	
NEIC	XI	06 00 18 52.0	38.34N	22.23E	10					**¶97xi0886**
ATH	XI	06 00 18 53.3	38.32N	22.21E	5	3.0L				
NEIC	Single network solution.									
ISC	**XI**	**06 01 26 08.8**±.64	**38.34N**±.048	**22.26E**±.069	**10**			**17**	**1-3**	
NEIC	XI	06 01 26 09.5	38.29N	22.24E	10					**¶97xi0897**
ATH	XI	06 01 26 09.9	38.28N	22.23E	5	3.1L				
THE	XI	06 01 26 13.7	38.6N	22.4E	10	2.9L				
NEIC	Single network solution.									
ISC	**XI**	**06 01 44 30**±1.3	**38.3N**±.11	**22.2E**±.13	**10**			**4**	**1-1**	
ATH	XI	06 01 44 30.6	38.39N	22.20E	10	3.1D				**¶97xi0903**
ISC	Poorly determined									
ISC	**XI**	**06 09 10 48**±2.0	**38.40N**±.087	**22.3E**±.12	**12**±19			**9**	**1-2**	
ATH	XI	06 09 10 48.3	38.39N	22.35E	11	2.8D				**¶97xi0952**
THE	XI	06 09 10 49.0	38.4N	22.3E	12	2.8L				
ATH	**XI**	**06 11 25 17.6**	**38.43N**	**22.02E**	**35**					**¶97xi0970**
ISC	**XI**	**06 12 17 19**±1.8	**40.2N**±.10	**21.7E**±.19	**0**			**4**	**1-1**	
THE	XI	06 12 17 20.3	40.2N	21.7E	0	2.3L				**¶97xi0974**
ISC	Poorly determined									
ISC	**XI**	**06 14 47 03**±1.4	**38.1N**±.10	**22.9E**±.13	**5**			**4**	**1-1**	
ATH	XI	06 14 47 04.6	38.10N	22.87E	5	2.6L				**¶97xi0992**
ISC	Poorly determined									
ISC	**XI**	**06 14 49 43.2**±.72	**38.15N**±.057	**22.97E**±.090	**20**			**10**	**1-2**	
NEIC	XI	06 14 49 43.0	38.15N	22.90E	10					**¶97xi0993**
THE	XI	06 14 49 43.4	38.0N	22.9E	20	2.6L				
ATH	XI	06 14 49 44.5	38.18N	22.95E	30	3.0L				
NEIC	Single network solution.									
ISC	**XI**	**06 15 56 14.4**±.69	**40.77N**±.048	**23.02E**±.068	**6**			**9**	**0-1**	
THE	XI	06 15 56 15.3	40.8N	23.0E	6	2.2L				**¶97xi0997**
ATH	**XI**	**06 15 57 32.9**	**38.35N**	**21.99E**	**10**					**¶97xi0998**
ISC	**XI**	**06 17 07 11**±1.9	**38.30N**±.056	**23.7E**±.11	**13**±17			**10**	**0-2**	
NEIC	XI	06 17 07 11.0	38.26N	23.59E	10					**¶97xi1004**
ATH	XI	06 17 07 12.6	38.22N	23.64E	26	2.8L				
THE	XI	06 17 07 12.8	38.3N	23.8E	20					
NEIC	Single network solution.									
ISC	**XI**	**06 17 47 13**±1.7	**38.31N**±.043	**23.56E**±.059	**11**±14			**24**	**0-4**	
THE	XI	06 17 47 13.9	38.3N	23.6E	16	2.9L				**¶97xi1008**
NEIC	XI	06 17 47 14.3	38.12N	23.50E	10					
ATH	XI	06 17 47 15.1	38.18N	23.50E	22	3.3L				
NEIC	Single network solution.									
ISC	**XI**	**06 21 59 05**±2.1	**38.4N**±.11	**22.4E**±.29	**35**			**4**	**1-1**	
ATH	XI	06 21 59 05.2	38.43N	22.30E	35	2.7D				**¶97xi1039**
ISC	Poorly determined									
ISC	**XI**	**07 00 03 23**±1.2	**38.51N**±.094	**22.3E**±.18	**10**			**5**	**1-2**	
ATH	XI	07 00 03 23.3	38.50N	22.31E	10	2.9L				**¶97xi1051**
ISC	**XI**	**07 00 19 08**±1.4	**38.41N**±.074	**22.2E**±.12	**20**±20			**7**	**1-2**	
NEIC	XI	07 00 19 09.2	38.43N	22.21E	33					**¶97xi1055**
ATH	XI	07 00 19 09.7	38.35N	22.18E	29	3.0L				
NEIC	Single network solution.									
ISC	**XI**	**07 05 39 54**±1.7	**38.38N**±.059	**22.31E**±.085	**6**±17			**11**	**1-2**	
NEIC	XI	07 05 39 55.0	38.31N	22.29E	5					**¶97xi1081**
ATH	XI	07 05 39 55.9	38.31N	22.21E	5	3.2L				
THE	XI	07 05 39 57.2	38.4N	22.3E	21	2.6L				
NEIC	Poor solution.									
ISC	**XI**	**07 06 11 00**±1.1	**40.56N**±.083	**23.5E**±.17	**0**			**5**	**0-1**	
THE	XI	07 06 11 00.5	40.6N	23.6E	0	1.9L				**¶97xi1085**
ISC	**XI**	**07 07 11 06**±1.2	**38.70N**±.043	**22.65E**±.060	**11**±10			**24**	**0-3**	
ATH	XI	07 07 11 06.6	38.79N	22.75E	30	3.4L				**¶97xi1092**
NEIC	XI	07 07 11 07.6	38.67N	22.66E	33					
THE	XI	07 07 11 09.6	38.9N	22.6E	6	2.8L				
NEIC	Single network solution.									
ISC	**XI**	**07 23 06 36**±1.8	**38.37N**±.056	**22.31E**±.095	**1**±17			**13**	**1-3**	
THE	XI	07 23 06 37.2	38.3N	22.2E	7	2.9L				**¶97xi1180**
ATH	XI	07 23 06 38.8	38.34N	22.21E	18	3.6L				
NEIC	XI	07 23 06 40.2	38.26N	22.24E	33					
ISC	**XI**	**08 04 28 34.0**±.53	**38.35N**±.041	**22.33E**±.058	**5**			**25**	**1-4**	
NEIC	XI	08 04 28 34.5	38.29N	22.30E	5					**¶97xi1211**
ATH	XI	08 04 28 35.1	38.32N	22.24E	5	3.6L				
THE	XI	08 04 28 36.3	38.4N	22.4E	5	3.1L				
THE	**XI**	**08 08 25 36.8**	**40.5N**	**23.5E**	**10**					**¶97xi1235**
ISC	**XI**	**09 18 38 26**±1.1	**38.34N**±.064	**22.2E**±.14	**5**			**5**	**1-2**	
ATH	XI	09 18 38 28.4	38.31N	22.09E	5	2.7D				**¶97xi1489**

| Agency | | Origin Time | | |

THE	XII	14 09 26 56.6	38.5N	22.5E	9	4.0L			
EIDC	Error ellipse is semi-major=14.8km semi-minor=12.4km azimuth=96								
ISC	**XII**	**18 08 34 59**±1.7	**40.7N**±.13	**23.2E**±.14	**0**		**4**	**0-0**	
THE	XII	18 08 34 59.4	40.7N	23.2E	0	2.0L			¶97xii3740
ISC	Poorly determined								
ISC	**XII**	**18 22 32 59.2**±.94	**39.24N**±.073	**22.06E**±.072	**10**		**13**	**0-2**	
ATH	XII	18 22 32 59.7	39.26N	22.08E	10	3.1D			¶97xii3844
THE	XII	18 22 32 59.8	39.0N	22.1E	16	2.6L			
ISC	**XII**	**20 18 12 42**±1.2	**38.7N**±.12	**21.5E**±.12	**10**		**6**	**0-3**	
ATH	XII	20 18 12 41.6	38.74N	21.56E	10	3.0D			¶97xii4145
ATH	**XII**	**20 19 57 52.7**	**39.02N**	**21.42E**	**10**	**3.0D**			¶97xii4162
ISC	**XII**	**22 07 41 19**±1.6	**39.2N**±.14	**21.6E**±.11	**0**		**4**	**1-2**	
THE	XII	22 07 41 19.8	39.2N	21.6E	0	2.3L			¶97xii4380
ISC	Poorly determined								
ISC	**XII**	**22 13 34 28**±1.4	**38.06N**±.086	**22.0E**±.19	**10**		**4**	**1-2**	
ATH	XII	22 13 34 29.8	38.05N	21.94E	10	2.9D			¶97xii4429
ISC	Poorly determined								
ISC	**XII**	**22 15 57 24.0**±.73	**40.10N**±.066	**21.4E**±.10	**34**		**9**	**0-2**	
ATH	XII	22 15 57 21.5	40.22N	21.20E	34	2.9D			¶97xii4444
THE	XII	22 15 57 24.4	40.1N	21.4E	10	2.2L			
ISC	**XII**	**22 18 49 57**±2.4	**40.9N**±.19	**21.5E**±.16	**0**		**4**	**0-1**	
THE	XII	22 18 49 57.1	40.9N	21.5E	0				¶97xii4468
ISC	Poorly determined								
ISC	**XII**	**23 12 32 48**±1.6	**40.2N**±.12	**21.6E**±.20	**0**		**4**	**1-1**	
THE	XII	23 12 32 49.8	40.2N	21.6E	0	1.9L			¶97xii4599
ISC	Poorly determined								
ATH	**XII**	**24 04 23 19.1**	**38.33N**	**21.69E**	**10**	**2.9D**			¶97xii4704
ISC	**XII**	**24 21 19 48**±1.2	**40.30N**±.074	**23.9E**±.12	**0**		**5**	**0-1**	
THE	XII	24 21 19 48.1	40.3N	23.9E	0	1.9L			¶97xii4825
ISC	**XII**	**25 06 47 08.8**±.48	**38.29N**±.039	**22.19E**±.053	**7**	**3.6b**	**34**	**1-24**	
EIDC	XII	25 06 47 04.6±8.04	38.1N	22.8E	0	3.5b,3.4L			¶97xii4880
NEIC	XII	25 06 47 05.3	37.71N	22.73E	33				
ATH	XII	25 06 47 09.8	38.31N	22.16E	7	3.4D			
THE	XII	25 06 47 10.6	38.3N	22.4E	0	3.2L			
EIDC	Error ellipse is semi-major=133.0km semi-minor=34.3km azimuth=144								
NEIC	Poor solution.								
ATH	**XII**	**25 07 37 07.9**	**38.11N**	**23.32E**	**5**	**3.2D**			¶97xii4887
THE	XII	25 07 37 10.9	38.6N	23.4E	10	2.7L			
ATH	**XII**	**25 11 51 59.4**	**38.89N**	**21.67E**	**30**	**2.9D**			¶97xii4922
ISC	**XII**	**26 10 55 15**±1.7	**38.37N**±.066	**20.6E**±.24	**2**		**6**	**0-2**	
ATH	XII	26 10 55 16.0	38.31N	20.61E	2	3.3D			¶97xii5107
ISC	**XII**	**26 12 59 27**±1.2	**38.4N**±.10	**21.5E**±.16	**10**		**4**	**1-1**	
ATH	XII	26 12 59 27.7	38.39N	21.56E	10				¶97xii5123
ISC	Poorly determined								
ISC	**XII**	**26 16 52 14**±1.3	**40.65N**±.099	**23.0E**±.11	**0**		**4**	**0-1**	
THE	XII	26 16 52 14.3	40.7N	23.0E	0	1.3L			¶97xii5176
ISC	Poorly determined								
ISC	**XII**	**26 19 31 45.4**±.61	**38.30N**±.042	**22.26E**±.072	**7**		**29**	**1-4**	
ATH	XII	26 19 31 45.7	38.31N	22.03E	7	3.1L			¶97xii5191
THE	XII	26 19 31 46.2	38.3N	22.4E	4	3.1L			
ISC	**XII**	**27 10 47 30**±2.3	**39.0N**±.20	**23.3E**±.11	**1**±18		**7**	**1-2**	
THE	XII	27 10 47 30.3	38.8N	23.3E	14	2.2L			¶97xii5280
ISC	**XII**	**27 16 25 42**±4.8	**39.9N**±.28	**22.6E**±.27	**0**		**4**	**0-1**	
THE	XII	27 16 25 41.3	39.9N	22.5E	0	1.8L			¶97xii5315
ISC	Poorly determined								
ISC	**XII**	**28 14 47 29.6**±.67	**38.20N**±.049	**22.78E**±.067	**5**		**15**	**1-3**	
ATH	XII	28 14 47 31.4	38.15N	22.72E	5	3.1L			¶97xii5466
THE	XII	28 14 47 32.5	38.3N	22.9E	6				
ATH	**XII**	**28 23 05 35.9**	**38.97N**	**20.75E**	**10**	**2.9D**			¶97xii5511
ISC	**XII**	**29 00 08 05.5**±.80	**39.03N**±.067	**21.98E**±.075	**5**		**10**	**0-2**	
ATH	XII	29 00 08 06.1	39.00N	22.02E	5	2.9D			¶97xii5515
THE	XII	29 00 08 06.6	39.0N	22.0E	0	2.2L			
ISC	**XII**	**29 07 16 01.1**±.97	**40.45N**±.065	**23.70E**±.096	**0**		**6**	**0-1**	
THE	XII	29 07 16 01.8	40.4N	23.7E	0	2.3L			¶97xii5556
ISC	**XII**	**31 12 57 06.5**±.40	**38.78N**±.036	**21.22E**±.033	**49**±5.0	**3.9b**	**97**	**0-122**	
NEIC	XII	31 12 57 04.7	38.72N	21.22E	33	3.9b			¶97xii5900
ATH	XII	31 12 57 05.6	38.76N	21.22E	5	3.8L			
EIDC	XII	31 12 57 06.6±5.90	38.9N	21.3E	30±43.8	3.8b,4.3L			
THE	XII	31 12 57 07.0	38.7N	21.4E	20	3.5L			
PDG	XII	31 12 57 09.5	39.0N	19.8E	11	3.6L			
EIDC	Error ellipse is semi-major=19.9km semi-minor=15.6km azimuth=102								
ISC	**XII**	**31 21 13 06**±1.1	**38.58N**±.086	**21.6E**±.13	**5**		**5**	**0-2**	
ATH	XII	31 21 13 07.7	38.49N	21.55E	5	2.9D			¶97xii5972

(365) *Ægean Sea.*

ISC	**VII**	**01 04 02 33**±1.1	**39.28N**±.046	**25.91E**±.045	**3**±9.9		**33**	**0-6**	
ISK	VII	01 04 02 35.0	39.35N	25.93E	10	3.5D			¶97vii0027
THE	VII	01 04 02 35.4	39.3N	25.8E	5	3.2L			
ATH	VII	01 04 02 35.5	39.26N	25.87E	13	3.6D			
ISC	**VII**	**03 09 38 12.8**±.57	**40.52N**±.052	**25.69E**±.054	**10**		**16**	**0-3**	
SOF	VII	03 09 38 13.0	41.60N	26.00E	0	2.8D			¶97vii0387
THE	VII	03 09 38 14.4	40.5N	25.7E	10	3.0L			
ISC	**VII**	**04 08 02 52**±1.2	**39.22N**±.095	**23.35E**±.075	**7**±12		**10**	**0-2**	
THE	VII	04 08 02 53.2	39.2N	23.4E	13	2.7L			¶97vii0522
ISC	**VII**	**08 07 59 24**±2.4	**38.75N**±.066	**26.1E**±.16	**25**±25		**14**	**1-3**	
ATH	VII	08 07 59 20.0	38.72N	27.13E	16	3.8L			¶97vii1151
ISK	VII	08 07 59 20.3	38.64N	25.86E	8	3.5D			
ISC	**VII**	**08 08 39 25.3**±.74	**40.20N**±.036	**25.22E**±.034	**4**±6.8		**41**	**0-5**	
ISK	VII	08 08 39 18.0	40.35N	24.62E	10	3.7D			¶97vii1157
ATH	VII	08 08 39 26.2	40.35N	25.37E	10	3.5D			
THE	VII	08 08 39 26.9	40.1N	25.2E	5	3.3L			
ISC	**VII**	**09 20 06 26.5**±.90	**38.74N**±.084	**26.08E**±.085	**10**		**14**	**1-3**	
ISK	VII	09 20 06 24.5	38.77N	26.03E	10	3.4D			¶97vii1391
THE	VII	09 20 06 28.2	38.7N	26.0E	1				
THE	**VII**	**10 04 09 07.4**	**40.5N**	**25.5E**	**10**				¶97vii1445
ISK	**VII**	**12 08 00 56.3**	**38.34N**	**26.60E**	**10**	**2.9D**			¶97vii1789
ISC	**VII**	**12 17 29 42.3**±.84	**39.62N**±.035	**23.86E**±.049	**3**±7.7		**30**	**0-3**	
ATH	VII	12 17 29 42.4	39.69N	23.88E	5	3.3L			¶97vii1845
THE	VII	12 17 29 43.4	39.6N	23.9E	1	3.0L			
ISC	**VII**	**13 06 47 15**±2.2	**39.9N**±.10	**23.8E**±.16	**1**		**8**	**0-2**	
THE	VII	13 06 47 16.7	39.9N	23.8E	1	1.9L			¶97vii1940
ISC	**VII**	**14 14 58 32**±1.1	**39.26N**±.077	**23.72E**±.088	**4**		**6**	**0-1**	
THE	VII	14 14 58 33.1	39.2N	23.7E	4	2.3L			¶97vii2156
ISC	**VII**	**14 21 49 53.1**±.90	**39.99N**±.049	**23.26E**±.055	**3**±8.7		**21**	**0-3**	
THE	VII	14 21 49 53.8	40.0N	23.3E	9	2.4L			¶97vii2208
ATH	VII	14 21 49 56.7	40.06N	23.10E	10	3.1D			
ISC	**VII**	**15 08 15 11**±1.3	**39.89N**±.080	**23.40E**±.089	**1**±19		**8**	**0-1**	
THE	VII	15 08 15 11.3	39.9N	23.4E	6	1.9L			¶97vii2275
ISC	**VII**	**16 01 35 19.6**±.93	**38.60N**±.067	**25.81E**±.097	**5**		**12**	**1-3**	
ATH	VII	16 01 35 20.0	38.65N	25.57E	5	3.4D			¶97vii2375
THE	VII	16 01 35 21.3	38.6N	25.8E	10				
ISK	VII	16 01 35 27.3	38.96N	26.59E	10	3.4D			
ISC	**VII**	**16 10 06 06.6**±.87	**39.09N**±.022	**25.20E**±.019	**6**±5.9	**4.5b,4.4s**	**264**	**1-129**	
ISK	VII	16 10 06 04.6	39.14N	24.98E	8	4.5D			¶97vii2419
BJI	VII	16 10 06 06.5	39.27N	25.20E	5	4.9b,4.8s			
EIDC	VII	16 10 06 06.8	39.1N	25.0E	0	4.3b,4.4L			
MOS	VII	16 10 06 06.9	39.1N	25.2E	10	5.1b,4.6s			
NEIC	VII	16 10 06 07.1	39.10N	25.20E	10	4.6b,3.9s			
ATH	VII	16 10 06 09.7	39.05N	25.30E	38	4.6L			
THE	VII	16 10 06 09.9	39.1N	25.2E	29	4.5L			
NEIC	Felt at Burhaniye, Turkey.								
ISC	**VII**	**16 22 42 17**±1.3	**40.5N**±.11	**25.5E**±.13	**12**		**6**	**1-2**	
THE	VII	16 22 42 17.6	40.4N	25.6E	12	2.5L			¶97vii2507
ISC	**VII**	**16 23 05 49.0**±.67	**40.49N**±.037	**25.50E**±.042	**2**±6.9		**29**	**1-3**	
THE	VII	16 23 05 50.3	40.5N	25.5E	2	3.3L			¶97vii2512
ATH	VII	16 23 05 51.7	40.66N	25.85E	35	3.1D			
ISK	VII	16 23 05 51.8	40.42N	25.67E	10	3.2D			
ISC	**VII**	**17 22 09 42**±2.3	**40.4N**±.16	**25.8E**±.23	**10**±23		**6**	**1-2**	
THE	VII	17 22 09 42.1	40.4N	25.9E	10	1.6L			¶97vii2652
ISC	Poorly determined								
ISC	**VII**	**19 07 14 40**±1.3	**40.52N**±.093	**25.46E**±.086	**4**±18		**8**	**1-2**	
THE	VII	19 07 14 40.4	40.5N	25.5E	10	2.4L			¶97vii2841
ISK	VII	19 07 14 42.8	39.64N	27.30E	10	2.6D			
ISC	**VII**	**19 21 00 30**±1.3	**38.51N**±.048	**25.84E**±.075	**19**±16		**18**	**1-4**	
THE	VII	19 21 00 29.6	38.5N	25.9E	7				¶97vii2954
ATH	VII	19 21 00 30.7	38.53N	25.90E	24	3.2L			
ISK	VII	19 21 00 30.9	39.35N	27.86E	10	3.4D			
ISC	**VII**	**21 05 21 40**±1.0	**39.62N**±.061	**24.0E**±.12	**5**±18		**8**	**0-2**	
THE	VII	21 05 21 41.1	39.6N	23.9E	8				¶97vii3199
ISC	**VII**	**22 08 17 37**±4.9	**40.8N**±.19	**24.1E**±.49	**19**		**5**	**0-1**	
THE	VII	22 08 17 37.5	40.9N	24.1E	19	2.6L			¶97vii3342
ISC	**VII**	**22 11 28 10**±1.4	**39.3N**±.11	**23.1E**±.11	**14**±25		**5**	**1-1**	
THE	VII	22 11 28 11.4	39.3N	23.1E	15	2.1L			¶97vii3368
ISC	Poorly determined								
ISC	**VII**	**23 04 30 37**±1.1	**38.44N**±.093	**25.8E**±.13	**10**		**5**	**1-1**	
ATH	VII	23 04 30 37.5	38.45N	25.86E	10				¶97vii3481
ISC	**VII**	**24 21 00 34**±1.2	**39.53N**±.092	**23.9E**±.19	**24**±27		**5**	**0-1**	
THE	VII	24 21 00 34.6	39.5N	23.9E	15				¶97vii3719
ISC	Poorly determined								
ISC	**VII**	**25 07 17 57**±3.4	**39.2N**±.20	**23.4E**±.25	**12**±24		**5**	**0-2**	
THE	VII	25 07 17 57.1	39.2N	23.4E	16	2.2L			¶97vii3787
ISC	Poorly determined								
ISC	**VII**	**25 09 33 10**±1.6	**39.1N**±.16	**23.3E**±.11	**6**±20		**8**	**0-4**	
THE	VII	25 09 33 10.8	39.1N	23.4E	10	2.2L			¶97vii3811
ISC	**VII**	**26 05 11 09.5**±.97	**38.00N**±.065	**24.35E**±.097	**3**		**7**	**0-2**	
ATH	VII	26 05 11 10.6	38.01N	24.32E	3	2.9L			¶97vii3918
THE	VII	26 05 11 10.6	38.0N	24.3E	10				
ISC	**VII**	**27 06 18 52**±1.3	**40.20N**±.095	**25.1E**±.12	**0**		**4**	**0-1**	
THE	VII	27 06 18 52.7	40.2N	25.1E	0				¶97vii4070
ISC	Poorly determined								
ISC	**VII**	**28 06 36 58**±4.7	**38.8N**±.36	**24.0E**±.24	**23**		**4**	**0-1**	
THE	VII	28 06 37 01.1	39.0N	23.9E	23				¶97vii4217
ISC	Poorly determined								
ISC	**VII**	**28 12 10 46**±1.0	**39.86N**±.073	**24.5E**±.11	**11**±20		**6**	**0-2**	
ATH	VII	28 12 10 46.1	39.87N	24.43E	5				¶97vii4268
THE	VII	28 12 10 46.5	39.9N	24.5E	13	2.3L			
ATH	**VII**	**28 21 47 52.9**	**38.05N**	**24.18E**	**5**	**2.4L**			¶97vii4333
ISC	**VII**	**30 12 14 19**±1.5	**38.0N**±.13	**24.3E**±.13	**23**±24		**5**	**0-2**	
ATH	VII	30 12 14 20.0	38.00N	24.34E	23	2.6L			¶97vii4579
ISC	Poorly determined								
ISC	**VII**	**31 16 53 01.1**±.85	**40.05N**±.072	**24.46E**±.064	**9**±10		**15**	**0-3**	
THE	VII	31 16 53 01.9	40.1N	24.5E	10	2.7L			¶97vii4765
ISC	**VIII**	**03 05 18 09**±1.6	**38.21N**±.065	**26.97E**±.097	**11**±11		**17**	**0-5**	
ISK	VIII	03 05 18 07.7	38.05N	27.09E	10	3.3D			¶97viii0305
ATH	VIII	03 05 18 11.4	38.27N	27.15E	33	3.7D			
ISC	**VIII**	**03 16 50 10.9**±.83	**39.65N**±.056	**23.42E**±.076	**10**±13		**10**	**0-2**	
THE	VIII	03 16 50 12.1	39.7N	23.4E	9	1.9L			¶97viii0385
ISC	**VIII**	**04 21 17 07**±2.5	**38.9N**±.29	**25.7E**±.18	**35**		**4**	**1-3**	
ATH	VIII	04 21 17 06.1	38.76N	25.67E	35	2.0D			¶97viii0553
ISC	Poorly determined								
ISC	**VIII**	**05 01 36 27**±7.0	**39.1N**±.32	**24.0E**±.45	**12**±12		**9**	**1-2**	
THE	VIII	05 01 36 33.0	39.3N	23.8E	21	1.9L			¶97viii0595
ISC	**VIII**	**06 16 17 01**±1.5	**39.88N**±.084	**23.8E**±.10	**11**±7.3		**15**	**0-3**	
THE	VIII	06 16 17 01.9	39.9N	23.8E	5	2.5L			¶97viii0819
ISC	**VIII**	**06 20 00 12**±4.7	**39.6N**±.27	**24.7E**±.16	**4**±19		**8**	**1-2**	
THE	VIII	06 20 00 14.3	39.6N	24.6E	4	2.3L			¶97viii0836
ATH	**VIII**	**06 21 43 33.1**	**39.02N**	**25.58E**	**10**				¶97viii0842
ATH	**VIII**	**06 21 57 50.5**	**39.18N**	**25.60E**	**5**				¶97viii0844
ISC	**VIII**	**06 22 05 30.7**±.78	**39.14N**±.044	**24.40E**±.068	**16**±8.9		**26**	**0-4**	
THE	VIII	06 22 05 32.5	39.1N	24.3E	21	2.8L			¶97viii0845
ATH	VIII	06 22 05 32.5	39.11N	24.44E	35	3.2L			
ISC	**VIII**	**07 16 35 02**±3.4	**38.40N**±.091	**25.9E**±.22	**6**±28		**5**	**1-3**	
ATH	VIII	07 16 35 02.8	38.43N	25.64E	10	3.5D			¶97viii0974
ISC	Poorly determined								
ISC	**VIII**	**13 16 05 18**±1.8	**39.4N**±.14	**25.3E**±.11	**4**±15		**8**	**1-3**	
THE	VIII	13 16 05 21.2	39.5N	25.1E	9				¶97viii1935
ISC	**VIII**	**14 22 09 10.5**±.99	**39.60N**±.045	**23.91E**±.076	**3**±11		**17**	**0-3**	
THE	VIII	14 22 09 11.3	39.6N	23.9E	2	3.0L			¶97viii2122
ATH	VIII	14 22 09 11.4	39.65N	24.14E	10	3.2L			
ISK	**VIII**	**16 12 00 51.0**	**38.95N**	**26.73E**	**10**	**2.8D**			¶97viii2366
ISC	**VIII**	**17 12 07 19**±1.5	**39.2N**±.13	**23.2E**±.12	**8**		**4**	**1-1**	
THE	VIII	17 12 07 19.5	39.2N	23.2E	8				¶97viii2539
ISC	Poorly determined								
ISC	**VIII**	**17 12 20 45**±1.3	**39.5N**±.12	**23.2E**±.16	**18**		**4**	**1-1**	
THE	VIII	17 12 20 45.3	39.5N	23.2E	18				¶97viii2540
ISC	Poorly determined								
ISC	**VIII**	**17 19 57 04.4**±.76	**40.35N**±.066	**25.72E**±.064	**1**		**13**	**1-3**	
THE	VIII	17 19 57 06.0	40.3N	25.7E	1				¶97viii2579
ISC	**VIII**	**18 06 35 02**±4.7	**39.1N**±.30	**24.9E**±.23	**10**±19		**5**	**1-2**	
THE	VIII	18 06 35 00.6	39.0N	25.0E	14				¶97viii2630
ISC	Poorly determined								
ISC	**VIII**	**18 23 06 24**±3.1	**38.47N**±.099	**26.8E**±.24	**9**±16		**8**	**0-2**	
ISK	VIII	18 23 06 23.0	38.44N	26.71E	8	3.2D			¶97viii2725
ISC	**VIII**	**19 03 30 05**±1.4	**39.2N**±.13	**23.1E**±.12	**13**		**4**	**1-2**	
THE	VIII	19 03 30 06.0	39.3N	23.1E	13	2.5L			¶97viii2757
ISC	Poorly determined								
ISC	**VIII**	**19 13 50 03.1**±.75	**40.19N**±.070	**25.66E**±.064	**2**		**12**	**1-2**	
ISK	VIII	19 13 50 05.0	39.48N	26.66E	9	2.8D			¶97viii2816
THE	VIII	19 13 50 06.4	40.3N	25.5E	2	2.7L			

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 20 22 48 30**±1.2	**40.33N**±.041	**25.64E**±.061	**6**±11		**24**	**1-6**
ATH	VIII 20 22 48 26.3	40.23N	24.75E	10	3.4D		¶97viii3029
ISK	VIII 20 22 48 31.1	40.31N	25.78E	12	3.5D		
THE	VIII 20 22 48 31.1	40.3N	25.7E	10	3.4L		
ISC	**VIII 22 11 50 28**±1.0	**39.79N**±.061	**23.1E**±.11	**1**±23		**8**	**0-1**
THE	VIII 22 11 50 29.6	39.8N	23.1E	13	2.2L		¶97viii3219
ISC	**VIII 22 18 44 41**±1.1	**38.52N**±.059	**26.70E**±.077	**12**±9.2		**15**	**0-5**
ATH	VIII 22 18 44 39.2	38.44N	26.99E	8	3.3D		¶97viii3264
ISK	VIII 22 18 44 40.2	38.48N	26.69E	9	3.3D		
THE	VIII 22 18 44 41.0	38.5N	26.8E	8	3.3L		
ISC	**VIII 23 17 21 53**±2.2	**38.42N**±.035	**25.22E**±.034	**2**±17	**3.6b**,3.0s	**76**	**1-43**
THE	VIII 23 17 21 55.2	38.3N	25.3E	18	3.6L		¶97viii3427
ATH	VIII 23 17 21 55.5	38.36N	25.25E	22	4.0L		
ISK	VIII 23 17 21 56.7	38.58N	25.44E	13	3.8D		
NEIC	VIII 23 17 21 57.0	38.30N	25.17E	33	3.8b		
EIDC	VIII 23 17 22 01.5	38.4N	25.1E	60	3.4b,3.6L		
NEIC	Less reliable solution.						
ISC	**VIII 23 19 05 21.3**±.76	**38.39N**±.054	**26.84E**±.053	**23**±8.5		**33**	**0-5**
ISK	VIII 23 19 05 21.3	38.44N	26.94E	10	3.5D		¶97viii3441
THE	VIII 23 19 05 23.1	38.3N	26.5E	10	3.5L		
ATH	VIII 23 19 05 24.7	38.44N	26.73E	39	3.5L		
ISC	**VIII 23 22 40 32**±1.1	**38.41N**±.058	**26.86E**±.070	**9**±8.3		**17**	**0-4**
ISK	VIII 23 22 40 31.9	38.35N	26.85E	12	3.3D		¶97viii3458
ATH	VIII 23 22 40 32.8	38.44N	27.14E	27	3.5D		
THE	VIII 23 22 40 33.3	38.5N	27.0E	13	3.5L		
ISC	**VIII 25 03 44 06**±1.2	**39.8N**±.15	**25.5E**±.10	**18**		**5**	**0-1**
THE	VIII 25 03 44 09.6	40.1N	25.1E	18			¶97viii3640
THE	**VIII 26 07 51 16.6**	**39.0N**	**23.4E**	**14**			¶97viii3807
THE	**VIII 26 16 05 31.4**	**39.8N**	**23.6E**	**12**			¶97viii3876
ISK	**VIII 29 11 55 52.0**	**40.33N**	**25.89E**	**10**	**2.6D**		¶97viii4299
ISC	**VIII 30 18 28 42**±1.3	**38.79N**±.043	**25.03E**±.046	**4**±11	3.3b	**37**	**1-24**
ISK	VIII 30 18 28 37.9	38.83N	24.61E	9	3.7D		¶97viii4522
ATH	VIII 30 18 28 42.1	38.80N	25.18E	12	3.5L		
THE	VIII 30 18 28 44.7	38.8N	24.8E	10	3.6L		
ISC	**VIII 31 18 01 34**±5.7	**39.7N**±.39	**25.5E**±.26	**15**		**5**	**0-2**
THE	VIII 31 18 01 35.5	39.7N	25.4E	15			¶97viii4689
ISC	**VIII 31 18 32 48.0**±.98	**39.87N**±.063	**24.06E**±.098	**5**±18		**7**	**0-2**
THE	VIII 31 18 32 49.2	39.9N	24.1E	4	2.2L		¶97viii4691
ISK	**VIII 31 18 37 55.8**	**38.67N**	**25.88E**	**10**	**3.2D**		¶97viii4692
ISK	**VIII 31 19 53 30.9**	**38.74N**	**26.60E**	**10**	**2.9D**		¶97viii4700
ISC	**IX 01 05 05 37**±2.9	**38.8N**±.17	**26.7E**±.31	**10**		**4**	**1-3**
ISK	IX 01 05 05 35.9	38.64N	26.51E	10	3.0D		¶97ix0050
ISC	Poorly determined						
ISC	**IX 04 02 00 56**±2.9	**39.3N**±.13	**25.5E**±.12	**4**±23		**9**	**1-3**
THE	IX 04 02 00 54.5	39.2N	25.6E	2	3.2L		¶97ix0531
ISC	**IX 04 16 48 26**±3.8	**38.7N**±.15	**25.9E**±.36	**10**		**8**	**1-4**
ISK	IX 04 16 48 36.7	38.95N	27.23E	10	3.1D		¶97ix0609
ISC	**IX 04 18 46 53.3**±.87	**40.34N**±.042	**25.63E**±.053	**1**±8.7		**20**	**1-3**
ATH	IX 04 18 46 48.4	40.20N	24.53E	10	3.1D		¶97ix0620
ISK	IX 04 18 46 53.0	40.33N	25.66E	10	3.2D		
THE	IX 04 18 46 55.0	40.3N	25.6E	5	2.9L		
ISC	**IX 06 02 41 18**±1.4	**38.95N**±.069	**26.9E**±.20	**5**		**6**	**0-2**
ISK	IX 06 02 41 18.8	38.99N	27.10E	5	3.0D		¶97ix0846
ISC	**IX 07 14 04 11**±1.4	**38.20N**±.047	**24.30E**±.065	**0**±12		**27**	**1-4**
THE	IX 07 14 04 13.3	38.2N	24.3E	8	3.4L		¶97ix1078
ATH	IX 07 14 04 14.6	38.05N	24.15E	8	3.2L		
ISC	**IX 07 17 50 27**±1.1	**40.51N**±.066	**25.4E**±.10	**7**		**10**	**1-3**
THE	IX 07 17 50 27.9	40.5N	25.5E	7	2.5L		¶97ix1111
ISC	**IX 08 05 08 00**±6.7	**39.3N**±.34	**25.2E**±.24	**14**±27		**6**	**1-4**
THE	IX 08 05 08 01.2	39.3N	25.1E	10	2.9L		¶97ix1178
THE	**IX 08 09 28 17.0**	**39.5N**	**25.0E**	**10**			¶97ix1202
ISC	**IX 09 10 55 20.6**±.73	**39.27N**±.040	**23.74E**±.059	**10**±7.1		**23**	**0-3**
THE	IX 09 10 55 21.6	39.2N	23.7E	14	2.6L		¶97ix1365
ATH	IX 09 10 55 22.5	39.23N	23.70E	8	3.1L		
ISC	**IX 12 15 51 07**±1.2	**38.43N**±.051	**26.62E**±.051	**10**±9.9		**32**	**0-6**
ISK	IX 12 15 51 07.5	38.36N	26.68E	10	3.5D		¶97ix1838
THE	IX 12 15 51 09.7	38.4N	26.5E	10	3.0L		
ATH	IX 12 15 51 11.7	38.58N	26.18E	11	3.4L		
ISC	**IX 14 09 40 20**±1.0	**39.86N**±.060	**23.40E**±.089	**1**±21		**8**	**0-1**
THE	IX 14 09 40 21.3	39.8N	23.4E	7	1.9L		¶97ix2100
ISC	**IX 14 21 26 56**±1.3	**38.9N**±.15	**25.7E**±.11	**28**±19		**7**	**1-2**
ATH	IX 14 21 26 57.0	39.07N	25.56E	10			¶97ix2165
THE	IX 14 21 26 57.3	39.1N	25.6E	2			
ISC	**IX 15 19 28 08**±1.2	**39.87N**±.068	**23.8E**±.13	**2**±23		**7**	**0-1**
THE	IX 15 19 28 09.1	39.9N	23.8E	1	1.8L		¶97ix2275
ISC	**IX 16 04 47 15.7**±.88	**38.02N**±.061	**26.88E**±.089	**10**		**17**	**0-5**
ISK	IX 16 04 47 14.8	38.02N	26.97E	10	3.3D		¶97ix2332
ATH	IX 16 04 47 16.1	38.26N	27.65E	36	3.5D		
ISC	**IX 16 09 35 02.8**±.96	**40.32N**±.052	**25.73E**±.053	**3**±9.1		**19**	**1-3**
ISK	IX 16 09 34 54.1	40.25N	24.88E	8	3.2D		¶97ix2362
THE	IX 16 09 35 05.5	40.4N	25.6E	4	2.8L		
ISC	**IX 16 09 59 36**±1.1	**40.27N**±.067	**25.82E**±.070	**6**±11		**12**	**1-2**
THE	IX 16 09 59 34.8	40.1N	26.1E	10	2.8L		¶97ix2369
ISC	**IX 16 14 57 11**±1.5	**40.3N**±.13	**25.2E**±.14	**2**		**5**	**0-2**
THE	IX 16 14 57 12.7	40.3N	25.2E	2	2.4L		¶97ix2400
ISC	**IX 16 15 12 27.7**±.96	**40.24N**±.067	**25.31E**±.077	**5**±13		**13**	**0-2**
THE	IX 16 15 12 29.0	40.2N	25.3E	0	2.7L		¶97ix2402
ISC	**IX 16 19 12 29.9**±.99	**40.27N**±.058	**25.32E**±.063	**1**±12		**17**	**0-3**
THE	IX 16 19 12 31.5	40.2N	25.3E	0	2.8L		¶97ix2420
ISC	**IX 16 23 51 20**±1.2	**39.3N**±.10	**23.04E**±.093	**14**±17		**7**	**1-2**
THE	IX 16 23 51 21.2	39.3N	23.1E	10	2.1L		¶97ix2444
ISC	**IX 19 05 57 52**±2.4	**39.1N**±.18	**24.1E**±.11	**13**±10		**15**	**0-4**
THE	IX 19 05 57 50.3	38.9N	24.1E	7	2.6L		¶97ix2753
ISC	**IX 20 10 49 28**±2.1	**39.0N**±.17	**23.4E**±.11	**12**		**4**	**0-1**
THE	IX 20 10 49 29.0	39.0N	23.4E	12	2.1L		¶97ix2932
ISC	Poorly determined						
ISC	**IX 20 16 51 14**±1.7	**38.8N**±.11	**26.4E**±.15	**5**		**11**	**1-3**
ISK	IX 20 16 51 16.4	38.86N	26.65E	5	3.2D		¶97ix2971
ISC	**IX 20 17 26 50.9**±.84	**38.78N**±.076	**26.39E**±.086	**10**		**22**	**1-5**
ISK	IX 20 17 26 49.9	38.82N	26.43E	10	3.5D		¶97ix2975
ISC	**IX 24 23 10 46**±1.5	**38.56N**±.059	**25.87E**±.098	**5**±15		**11**	**1-3**
THE	IX 24 23 10 48.4	38.6N	26.1E	19			¶97ix3647
ATH	IX 24 23 10 49.0	38.59N	25.96E	39	3.1L		
ISC	**IX 25 15 45 01**±1.8	**39.1N**±.14	**23.2E**±.11	**9**±27		**5**	**1-1**
THE	IX 25 15 45 02.1	39.1N	23.2E	12	1.9L		¶97ix3755
ISC	Poorly determined						
ISC	**IX 26 04 17 41**±1.5	**39.43N**±.074	**23.9E**±.19	**6**		**5**	**0-2**
THE	IX 26 04 17 42.1	39.4N	23.8E	6	2.5L		¶97ix3872
ISC	**IX 28 06 02 01**±1.8	**38.59N**±.045	**25.19E**±.049	**3**±15		**26**	**1-4**
ISK	IX 28 06 01 59.7	38.53N	24.81E	10	3.5D		¶97ix4560
THE	IX 28 06 02 02.0	38.6N	25.2E	8	3.4L		
ATH	IX 28 06 02 03.5	38.57N	25.22E	33	3.5L		
ISC	**IX 29 01 10 25.3**±.93	**39.49N**±.033	**25.97E**±.039	**4**±8.0		**44**	**0-5**
ISK	IX 29 01 10 26.1	39.53N	26.06E	11	3.7D		¶97ix4817
ATH	IX 29 01 10 26.7	39.47N	26.34E	35	3.6L		
THE	IX 29 01 10 27.3	39.5N	26.0E	18	3.5L		
NEIC	IX 29 01 10 39.4	40.40N	25.57E	10			
NEIC	Poor solution.						
ISC	**IX 29 01 42 46**±1.1	**39.54N**±.056	**25.95E**±.083	**4**±10		**14**	**0-3**
ISK	IX 29 01 42 46.7	39.52N	26.08E	5	3.2D		¶97ix4823
ATH	IX 29 01 42 47.1	39.60N	26.14E	5			
THE	IX 29 01 42 47.3	39.6N	26.0E	1			
ISC	**IX 30 00 04 40.5**±.67	**38.51N**±.054	**26.72E**±.088	**14**		**12**	**0-3**
ATH	IX 30 00 04 39.1	38.50N	27.10E	14	3.6D		¶97ix5070
ISK	IX 30 00 04 40.6	38.63N	26.98E	10	3.2D		
THE	IX 30 00 04 40.8	38.4N	26.8E	26			
ISK	**IX 30 15 34 39.6**	**38.58N**	**26.86E**	**10**	**3.1D**		¶97ix5265
ISC	**IX 30 22 12 39**±1.0	**38.62N**±.080	**26.6E**±.16	**10**		**7**	**1-3**
ISK	IX 30 22 12 38.6	38.67N	26.72E	10	2.9D		¶97ix5321
ATH	IX 30 22 12 39.9	38.66N	26.82E	5	3.4D		
ISK	**X 02 17 21 05.7**	**38.96N**	**26.69E**	**5**	**2.8D**		¶97x0319
ISC	**X 03 00 00 29**±2.1	**38.87N**±.087	**25.9E**±.25	**10**		**7**	**0-2**
ISK	X 03 00 00 27.9	38.87N	25.99E	10	2.9D		¶97x0357
ATH	X 03 00 00 30.3	39.06N	26.83E	5	3.4D		
ISC	**X 08 17 55 26.2**±.69	**39.09N**±.024	**24.45E**±.025	**11**±5.3	**3.9b**	**99**	**0-67**
NEIC	X 08 17 55 25.5	39.07N	24.44E	10			¶97x1448
EIDC	X 08 17 55 26.7	39.0N	24.3E	0	4.0b,3.9L		
ATH	X 08 17 55 27.2	39.08N	24.48E	9	3.9L		
THE	X 08 17 55 27.3	39.1N	24.4E	10	3.8L		
ISK	X 08 17 55 28.4	39.33N	24.65E	9	4.0D		
NEIC	M_D3.9(ISK).						
ISC	**X 09 19 43 35.8**±.50	**40.08N**±.071	**24.78E**±.047	**9**		**21**	**0-4**
THE	X 09 19 43 35.5	40.1N	24.9E	9	3.1L		¶97x1632
ISK	X 09 19 43 36.0	39.23N	25.28E	10	3.2D		
ISC	**X 10 04 38 28.4**±.77	**39.30N**±.034	**23.79E**±.059	**10**±6.7		**30**	**0-4**
THE	X 10 04 38 29.2	39.3N	23.8E	7	3.0L		¶97x1690
ATH	X 10 04 38 33.8	39.11N	23.66E	33	3.3L		
ISC	**X 11 03 24 05.4**±.92	**38.83N**±.072	**25.75E**±.085	**10**		**12**	**1-3**
ISK	X 11 03 24 05.8	38.79N	25.94E	10	3.1D		¶97x1840
ATH	X 11 03 24 07.3	38.98N	26.07E	10	3.6D		
THE	X 11 03 24 08.9	39.0N	25.6E	10			
ISC	**X 11 10 00 34.0**±.63	**40.80N**±.042	**24.25E**±.062	**5**		**14**	**1-2**
THE	X 11 10 00 35.1	40.8N	24.3E	5	2.2L		¶97x1875
ISC	**X 11 11 11 48**±2.4	**38.22N**±.085	**24.3E**±.26	**3**		**7**	**1-2**
THE	X 11 11 11 49.8	38.2N	24.2E	3			¶97x1885
ATH	X 11 11 11 51.6	38.09N	24.16E	5	2.6L		
ISC	**X 12 16 45 52**±1.4	**39.57N**±.069	**25.15E**±.093	**12**±15		**8**	**0-2**
ATH	X 12 16 45 52.0	39.63N	25.10E	10	1.9D		¶97x2071
THE	X 12 16 45 52.6	39.5N	25.1E	10			
ISC	**X 13 04 33 07**±1.2	**39.53N**±.067	**25.21E**±.066	**6**±9.7		**18**	**0-3**
THE	X 13 04 33 08.6	39.6N	25.1E	1	2.8L		¶97x2160
ISC	**X 16 11 16 48.4**±.49	**40.48N**±.044	**25.48E**±.054	**24**		**22**	**1-3**
ATH	X 16 11 16 39.3	40.46N	24.36E	24	3.2D		¶97x2829
ISK	X 16 11 16 46.4	40.50N	25.47E	10	3.2D		
THE	X 16 11 16 47.6	40.5N	25.5E	2	3.1L		
NEIC	X 16 11 16 56.8	41.15N	25.35E	33			
NEIC	Poor solution.						
ISC	**X 16 23 52 40.3**±.94	**40.03N**±.042	**25.87E**±.047	**6**±8.2		**30**	**0-4**
THE	X 16 23 52 41.2	40.0N	26.0E	10	3.1L		¶97x2901
ATH	X 16 23 52 41.8	39.99N	25.83E	26	3.5D		
ISK	X 16 23 52 44.9	39.97N	26.39E	10	3.1D		
NEIC	X 16 23 52 50.2	40.56N	25.31E	10			
NEIC	Poor solution.						
ISC	**X 17 17 54 11**±1.9	**39.5N**±.16	**25.7E**±.12	**20**		**6**	**1-2**
THE	X 17 17 54 14.0	39.6N	25.5E	20			¶97x3033
ISC	**X 18 05 48 06**±1.4	**39.3N**±.11	**23.1E**±.10	**15**		**4**	**1-1**
THE	X 18 05 48 07.0	39.2N	23.1E	15			¶97x3107
ISC	Poorly determined						
ISC	**X 18 05 55 11**±1.6	**39.66N**±.058	**25.50E**±.086	**10**±14		**14**	**0-3**
ATH	X 18 05 55 10.9	39.95N	26.84E	10			¶97x3110
THE	X 18 05 55 12.3	39.6N	25.5E	9	2.8L		
ISC	**X 18 07 31 10**±1.5	**39.7N**±.12	**25.48E**±.089	**5**±16		**8**	**0-2**
THE	X 18 07 31 12.2	39.8N	25.5E	10			¶97x3118
ISC	**X 20 00 33 09**±4.9	**38.79N**±.058	**26.0E**±.11	**8**±41		**17**	**0-4**
ISK	X 20 00 33 09.5	38.81N	26.01E	10	3.2D		¶97x3411
ATH	X 20 00 33 11.2	38.85N	26.45E	31	3.6L		
THE	X 20 00 33 12.0	38.9N	26.3E	28			
ISC	**X 20 23 46 08.8**±.93	**40.19N**±.042	**25.07E**±.066	**2**±9.3		**20**	**0-2**
THE	X 20 23 46 10.1	40.2N	25.1E	3	3.0L		¶97x3574
ATH	X 20 23 46 10.4	40.22N	25.05E	5			
ISC	**X 20 23 53 46.1**±.33	**39.34N**±.034	**25.91E**±.034	**10**		**44**	**0-4**
ISK	X 20 23 53 42.7	39.33N	25.59E	10	3.6D		¶97x3575
THE	X 20 23 53 45.4	39.3N	26.0E	1	3.3L		
ATH	X 20 23 53 47.3	39.30N	26.02E	22	3.6L		
ISC	**X 21 03 00 39**±2.2	**39.0N**±.23	**23.0E**±.12	**3**±30		**5**	**1-2**
THE	X 21 03 00 39.8	39.0N	23.0E	10			¶97x3590
ISC	Poorly determined						
ISC	**X 21 04 46 57.2**±.30	**39.36N**±.030	**25.90E**±.032	**10**	3.9b	**62**	**0-43**
ISK	X 21 04 46 55.1	39.40N	25.68E	11	3.9D		¶97x3606
THE	X 21 04 46 56.4	39.3N	26.0E	1	3.7L		
NEIC	X 21 04 46 57.9	39.43N	25.88E	10	4.1b		
ATH	X 21 04 46 58.4	39.35N	26.10E	30	3.8L		
EIDC	X 21 04 47 11.5	38.4N	23.8E	0	3.9b		
NEIC	Less reliable solution.						
ISC	**X 21 05 06 24.6**±.95	**39.38N**±.037	**25.89E**±.040	**5**±8.2		**40**	**0-5**
THE	X 21 05 06 22.7	39.3N	26.1E	0	3.5L		¶97x3609
ISK	X 21 05 06 26.2	39.36N	26.22E	10	3.4D		
ATH	X 21 05 06 26.7	39.41N	26.21E	20	3.8L		
ISC	**X 21 09 18 56.1**±.82	**39.61N**±.050	**23.43E**±.071	**6**±11		**12**	**0-2**
THE	X 21 09 18 57.3	39.6N	23.5E	10			¶97x3629
ISC	**X 21 21 33 41.0**±.34	**39.35N**±.033	**25.88E**±.040	**9**		**40**	**0-5**
ISK	X 21 21 33 41.2	39.36N	25.93E	9	3.8D		¶97x3702
ATH	X 21 21 33 42.5	39.33N	26.01E	24	3.7L		
ISC	**X 21 21 42 08**±1.1	**39.41N**±.079	**25.95E**±.082	**81**±24		**16**	**0-3**
ATH	X 21 21 42 06.7	39.18N	25.15E	14	3.4D		¶97x3704
THE	X 21 21 42 08.8	39.4N	25.8E	11			
ISC	**X 22 02 59 50**±1.4	**38.42N**±.064	**26.85E**±.094	**4**±13		**12**	**0-3**
ISK	X 22 02 59 50.6	38.45N	26.94E	5	3.1D		¶97x3743
ATH	X 22 02 59 51.3	38.40N	27.10E	37	3.6D		

ISC	X	**23 04 05 29**±1.6	**38.9N**±.10	**27.0E**±.24	**6**		**4**	**1-2**	
ISK	X	23 04 05 28.8	38.94N	27.04E	6	2.9D			¶97x3923
ISC		Poorly determined							
ISC	X	**23 07 50 36.7**±.78	**39.96N**±.055	**23.71E**±.082	**11**		**9**	**0-1**	
THE	X	23 07 50 37.9	40.0N	23.7E	11				¶97x3948
ISC	X	**23 16 13 09**±1.5	**40.0N**±.12	**23.25E**±.092	**4**±20		**7**	**0-1**	
THE	X	23 16 13 09.7	39.9N	23.2E	10				¶97x4025
ISC	X	**23 19 35 30.4**±.89	**38.20N**±.059	**24.16E**±.095	**3**		**8**	**0-2**	
THE	X	23 19 35 31.8	38.2N	24.1E	3				¶97x4051
ATH	X	23 19 35 32.3	38.14N	24.12E	3	2.6L			
ISC	X	**24 10 20 18.4**±.94	**39.40N**±.045	**25.90E**±.053	**8**±8.9		**22**	**0-4**	
ISK	X	24 10 20 18.0	39.40N	25.93E	6	3.3D			¶97x4147
ATH	X	24 10 20 18.5	39.45N	25.88E	5				
THE	X	24 10 20 19.5	39.4N	25.9E	3				
THE	X	**25 06 50 32.8**	**39.2N**	**23.0E**	**14**	**1.9L**			¶97x4289
ISC	X	**25 23 21 59.3**±.78	**40.06N**±.062	**24.37E**±.077	**2**		**12**	**1-3**	
THE	X	25 23 22 00.3	40.1N	24.4E	2	2.8L			¶97x4386
ISC	X	**26 05 35 34.4**±.59	**40.17N**±.056	**24.97E**±.055	**3**		**14**	**0-2**	
THE	X	26 05 35 35.7	40.1N	24.9E	3	2.7L			¶97x4419
ATH	X	26 05 35 36.6	40.21N	24.93E	15				
ISC	X	**27 05 32 39.9**±.83	**38.40N**±.059	**26.6E**±.11	**5**		**8**	**1-2**	
ISK	X	27 05 32 39.6	38.43N	26.68E	5	3.0D			¶97x4578
ATH	X	27 05 32 41.8	38.36N	26.48E	10				
ISC	X	**27 15 06 22**±1.1	**40.48N**±.078	**25.6E**±.15	**10**±24		**8**	**1-2**	
THE	X	27 15 06 23.4	40.5N	25.6E	1				¶97x4622
ISK	X	**27 17 31 31.0**	**38.60N**	**26.89E**	**5**	**2.8D**			¶97x4640
ISC	X	**28 08 18 49.3**±.58	**39.81N**±.024	**23.84E**±.028	**10**±4.4	**4.0b**	**85**	**0-96**	
ISK	X	28 08 18 44.9	39.78N	23.43E	13	4.0D			¶97x4731
NEIC	X	28 08 18 49.1	39.82N	23.92E	10	3.8b			
THE	X	28 08 18 50.3	39.8N	23.8E	9	3.8L			
ATH	X	28 08 18 50.8	39.85N	23.84E	24	4.0L			
EIDC	X	28 08 18 56.7	40.0N	23.9E	54	3.7b,4.2L			
ISC	X	**28 08 30 46.0**±.76	**39.81N**±.049	**23.83E**±.065	**10**±7.0		**21**	**0-3**	
ATH	X	28 08 30 44.1	41.01N	23.00E	10	3.2D			¶97x4733
THE	X	28 08 30 47.1	39.8N	23.8E	2	2.5L			
ISC	X	**28 17 22 01.4**±.69	**39.83N**±.039	**23.82E**±.054	**10**±5.9		**26**	**0-3**	
THE	X	28 17 22 02.3	39.8N	23.8E	9	2.9L			¶97x4792
ATH	X	28 17 22 03.8	39.87N	23.63E	22	3.4L			
ISC	X	**31 23 50 26**±1.1	**39.80N**±.053	**23.8E**±.12	**10**±10		**10**	**0-2**	
THE	X	31 23 50 26.6	39.8N	23.8E	8	2.5L			¶97x5242
ISC	XI	**01 04 01 08.3**±.80	**38.45N**±.063	**26.02E**±.086	**10**		**11**	**1-3**	
ATH	XI	01 04 01 01.0	38.77N	26.48E	80	3.7L			¶97xi0027
ISK	XI	01 04 01 06.2	38.44N	25.98E	10	3.1D			
ATH	XI	**02 14 44 03.3**	**38.41N**	**26.95E**	**10**				¶97xi0277
ISC	XI	**03 03 55 20**±1.8	**38.50N**±.086	**25.7E**±.29	**10**		**4**	**1-1**	
ATH	XI	03 03 55 20.5	38.51N	25.73E	10	3.5D			¶97xi0396
ISC		Poorly determined							
ISC	XI	**03 08 36 24.9**±.76	**38.52N**±.036	**25.81E**±.034	**18**±8.7	**3.6b**	**67**	**1-45**	
ISK	XI	03 08 36 18.8	38.36N	25.50E	10	4.0D			¶97xi0439
THE	XI	03 08 36 22.3	38.5N	25.9E	0	4.0L			
EIDC	XI	03 08 36 23.6	38.4N	26.5E	0	3.9b,4.1L			
ATH	XI	03 08 36 26.1	38.53N	25.87E	31	4.0L			
NEIC	XI	03 08 36 26.5	38.48N	26.57E	33	3.9b			
NEIC		Less reliable solution.							
ATH	XI	**03 15 27 25.8**	**39.79N**	**23.30E**	**10**	**3.0D**			¶97xi0486
ISC	XI	**06 01 32 55**±1.7	**38.48N**±.080	**25.7E**±.23	**10**		**5**	**1-1**	
ATH	XI	06 01 32 55.6	38.51N	25.59E	10	3.5D			¶97xi0900
ISC	XI	**06 04 55 26**±1.2	**39.3N**±.11	**23.1E**±.11	**27**		**5**	**1-1**	
THE	XI	06 04 55 26.3	39.3N	23.1E	27	2.0L			¶97xi0925
ISC	XI	**07 05 05 45.8**±.82	**39.78N**±.047	**23.84E**±.064	**5**±8.0		**19**	**0-3**	
THE	XI	07 05 05 47.0	39.8N	23.8E	3	2.8L			¶97xi1075
ATH	XI	07 05 05 47.5	39.97N	23.85E	10	3.3D			
ISC	XI	**07 05 08 49.3**±.81	**39.77N**±.048	**23.82E**±.062	**6**±7.6		**21**	**0-3**	
THE	XI	07 05 08 50.7	39.8N	23.8E	8	2.7L			¶97xi1076
ATH	XI	07 05 08 53.0	40.20N	23.79E	30	3.3D			
ISC	XI	**07 05 09 37**±1.3	**39.77N**±.081	**23.9E**±.14	**10**		**4**	**0-1**	
THE	XI	07 05 09 38.3	39.8N	23.8E	10				¶97xi1077
ISC		Poorly determined							
ISC	XI	**07 05 15 42.2**±.81	**39.77N**±.045	**23.80E**±.067	**5**±8.1		**20**	**0-3**	
THE	XI	07 05 15 43.3	39.8N	23.8E	1	2.4L			¶97xi1078
ATH	XI	07 05 15 45.0	40.35N	23.87E	5	3.1D			
ISC	XI	**07 05 52 25.1**±.78	**39.76N**±.050	**23.85E**±.066	**10**±7.6		**19**	**0-3**	
ATH	XI	07 05 52 19.3	40.10N	22.93E	10	3.3D			¶97xi1082
THE	XI	07 05 52 26.3	39.8N	23.8E	3	2.6L			
ISC	XI	**07 06 47 11**±1.0	**39.75N**±.067	**23.9E**±.11	**6**±15		**8**	**0-2**	
THE	XI	07 06 47 11.8	39.7N	23.8E	0	2.7L			¶97xi1089
ISC	XI	**07 12 50 32.6**±.96	**39.75N**±.063	**23.84E**±.093	**0**		**7**	**0-2**	
THE	XI	07 12 50 33.7	39.7N	23.8E	0	2.3L			¶97xi1125
ISC	XI	**08 06 24 27.9**±.79	**38.52N**±.066	**26.0E**±.10	**8**		**11**	**1-3**	
ISK	XI	08 06 24 24.5	38.44N	25.66E	8	3.4D			¶97xi1223
NEIC	XI	08 06 24 29.0	38.54N	25.67E	33				
ATH	XI	08 06 24 29.6	38.52N	25.73E	39	3.8D			
NEIC		Less reliable solution.							
ISC	XI	**08 14 45 20**±1.4	**39.2N**±.11	**23.18E**±.096	**11**±20		**6**	**1-2**	
THE	XI	08 14 45 21.0	39.2N	23.2E	10	1.3L			¶97xi1294
ISC	XI	**08 17 38 39.6**±.85	**39.74N**±.053	**23.85E**±.085	**9**±11		**11**	**0-2**	
THE	XI	08 17 38 41.2	39.7N	23.8E	10	1.9L			¶97xi1327
ISC	XI	**11 05 43 44**±1.7	**38.5N**±.10	**25.5E**±.39	**10**		**4**	**1-3**	
ATH	XI	11 05 43 44.8	38.54N	25.45E	10	3.3D			¶97xi1744
ISC		Poorly determined							
ISC	XI	**11 15 32 55**±1.6	**40.1N**±.23	**25.7E**±.11	**7**		**4**	**1-2**	
ISK	XI	11 15 32 54.1	40.10N	25.68E	7	2.7D			¶97xi1815
ISC		Poorly determined							
ISC	XI	**11 18 26 24.6**±.81	**39.79N**±.053	**23.42E**±.078	**0**		**9**	**0-1**	
THE	XI	11 18 26 25.8	39.8N	23.4E	0	2.3L			¶97xi1849
ATH	XI	**12 15 17 38.1**	**38.53N**	**25.68E**	**15**				¶97xi2001
ISC	XI	**12 18 05 31.4**±.84	**39.95N**±.059	**23.83E**±.076	**2**		**9**	**0-1**	
THE	XI	12 18 05 32.6	39.9N	23.8E	2	2.2L			¶97xi2019
ATH	XI	**12 19 00 31.5**	**38.33N**	**25.85E**	**10**	**3.6D**			¶97xi2023
ISC	XI	**12 21 03 39.9**±.95	**38.48N**±.072	**25.7E**±.13	**5**		**6**	**1-3**	
ATH	XI	12 21 03 41.4	38.44N	25.71E	5	3.3D			¶97xi2034
ISC	XI	**12 22 48 23**±2.0	**38.51N**±.089	**25.7E**±.30	**10**		**4**	**1-1**	
ATH	XI	12 22 48 24.1	38.51N	25.67E	10				¶97xi2043
ISC		Poorly determined							
ISC	XI	**14 21 38 49.4**±.70	**38.82N**±.017	**25.82E**±.014	**2**±4.5	**5.5b,5.8s**	**685**	**1-142**	
PDG	XI	14 21 38 04.8	36.4N	29.1E	13	5.6L			¶97xi2350
ISK	XI	14 21 38 49.8	38.86N	25.74E	12	5.1D			
EIDC	XI	14 21 38 50.3	38.8N	25.8E	0	5.3b,4.5L			
BJI	XI	14 21 38 51.0	39.19N	25.47E	26	5.6b,6.0s			
CSEM	XI	14 21 38 51.4	38.78N	25.63E	15				
RYD	XI	14 21 38 51.4	38.78N	25.63E	10	5.5D			
NEIC	XI	14 21 38 51.6	38.86N	25.80E	18	5.6b,5.8s			
THE	XI	14 21 38 51.7	38.7N	25.9E	20	5.1L			
ATH	XI	14 21 38 52.7	38.80N	25.87E	25	5.4L			
MOS	XI	14 21 38 53.6	38.9N	25.8E	33	6.0b,5.7s			
HRVD	XI	14 21 38 55.2±.2	38.74N±.02	25.77E±.05	15				

CSEM Mw6.1. M_0=1.4±1.0×10^{18}Nm. Fault plane solution NP1:ϕ_S241°,δ71°,λ−151°. NP2:ϕ_S141°, δ63°,λ−21°. Principal Axes: T Plg5°,Azm9°; N Plg56°,Azm271°; P Plg34°,Azm103°.

NEIC Mw6.1(CSEM)

NEIC Mw 6.0 (GS), 5.9 (HRV). MD 5.1 (ISK). Felt in much of northern Greece and on the northern Aegean Islands. Also felt in Aydin, Balikesir, Bursa, Canakkale, Istanbul, Izmir and Manisa, Turkey.

NEIC Moment tensor solution: s14, scale 10^{18}Nm; M_{rr}0.06; $M_{\theta\theta}$1.10; $M_{\phi\phi}$−1.17; $M_{r\theta}$0.01; $M_{r\phi}$0.04; $M_{\theta\phi}$−0.39. Depth 13km; Principal axes: T 1.17,Plg0°,Azm9°; N 0.07,Plg88°,Azm277°; P −1.23,Plg2°,Azm99°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S144°,δ89°,λ−1°. NP2: ϕ_S234°,δ89°,λ−179°.

ATH Felt on the Islands of Lesvos, I=V MCS at Polychnitos, Loutra, Panagiouda, Pamphylla, Vrissa, Anemotia, IV−V at Mithymna, Kato−Tritos, Vassilika, Messagros, IV at Mytilini, Plomari, Eressos, Thermi, Palaiochori, Pappados, Moria, Aphalonas, Pakaiokipos, Skopelos, Kleio, Stypsi, Messotopos, Kapi, Ippeio, Antissa, III at Sigri; on Chios, V at Neochori, Lithio, IV−V at Daphnonas, IV at Vrontados, Pyrgi, Agios−Georgios−Sykousis, Olympoi, Thymiana, Karyes, Volissos, Elata, Nenita; on Euboea, IV at Aphrati, Nea−Styra, Rovies, III at Kymi, Amarynthos; on Limnos, IV at Kontias, III at Myrina, Moudros, Atsiki; on Agios−Efstratios, IV at Agios−Efstratios; on Ikaria, IV at Agios−Kirykos; on Samos, III at Vathy, Koumaiika, Pagouda, Mytilinioi, Pyrgos−Samou, Vourliotes, Chora; on Skyros, III at Skyros; on Phournoi, III at Phournoi; on Paros, III at Naoussa; on Tinos, III at Tinos; on Kalymnos, II at Kalymnos; and in the regions of Attiki, IV at Athina, Raphina, Ilioupoli, III at Vilia, Keratea, Markopoulo−Messogaias, Megara, Mandra; in Magnesia III at Almyros; in Boeotia, III at Thivai, Orchomenos, Distomo, Kaparelli.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c61; Mantle waves: s14,c20; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.12±.13; $M_{\theta\theta}$7.05±.14; $M_{\phi\phi}$−4.92±.17; $M_{r\theta}$2.06±.59; $M_{r\phi}$1.39±.46; $M_{\theta\phi}$−3.32±.16. Principal Axes: T 8.17,Plg9°,Azm13°; N −1.59,Plg65°,Azm263°; P −6.59,Plg23°,Azm107°. Best double couple: $M_0$7.4×10^{17}Nm, NP1:ϕ_S148°,δ67°,λ−10°. NP2:ϕ_S242°,δ80°,λ−156°.

ISC	XI	**14 21 55 22**±1.2	**38.84N**±.049	**25.91E**±.062	**1**±11		**26**	**0-4**	
ATH	XI	14 21 55 22.0	38.84N	25.59E	5	3.8D			¶97xi2351
ISK	XI	14 21 55 26.8	38.95N	26.33E	9	3.4D			
ISC	XI	**14 22 02 41**±1.3	**38.92N**±.058	**25.97E**±.079	**29**±15		**14**	**0-2**	
ATH	XI	14 22 02 41.6	38.97N	26.08E	36	3.3L			¶97xi2352
ISC	XI	**14 22 05 51**±3.1	**38.80N**±.094	**25.8E**±.20	**13**±26		**6**	**1-2**	
ATH	XI	14 22 05 51.0	38.84N	25.65E	5				¶97xi2354
ISC	XI	**14 22 07 49**±1.5	**38.79N**±.063	**25.93E**±.074	**76**±54		**18**	**1-4**	
ISK	XI	14 22 07 46.9	38.79N	25.71E	10	3.3D			¶97xi2355
ATH	XI	14 22 07 50.5	38.70N	25.88E	34	3.7D			
ISC	XI	**14 22 09 12.6**±.74	**38.86N**±.075	**25.99E**±.094	**14**		**10**	**1-2**	
ISK	XI	14 22 09 11.1	38.81N	25.94E	14	3.3D			¶97xi2356
ATH	XI	14 22 09 17.3	38.95N	25.42E	34	3.6D			
ISC	XI	**14 22 17 08**±2.5	**38.89N**±.099	**25.6E**±.26	**5**		**7**	**1-3**	
ATH	XI	14 22 17 10.7	38.83N	25.67E	5	3.5D			¶97xi2360
ISC	XI	**14 22 18 43**±1.3	**38.79N**±.063	**25.7E**±.17	**5**		**7**	**1-3**	
ATH	XI	14 22 18 44.2	38.83N	25.65E	5	3.5D			¶97xi2361
ISC	XI	**14 22 30 02**±1.4	**38.9N**±.11	**26.1E**±.13	**9**		**5**	**1-2**	
ISK	XI	14 22 30 04.0	38.99N	26.33E	9	3.2D			¶97xi2365
ISC	XI	**14 22 31 44**±1.8	**38.83N**±.072	**25.9E**±.12	**10**±14		**9**	**1-2**	
ISK	XI	14 22 31 42.2	38.70N	25.61E	10	3.2D			¶97xi2366
ATH	XI	14 22 31 44.2	38.83N	25.62E	22	3.6D			
ISC	XI	**14 22 52 20.9**±.64	**38.88N**±.053	**26.03E**±.071	**5**		**14**	**0-2**	
ATH	XI	14 22 52 21.5	39.08N	26.01E	67				¶97xi2371
ISK	XI	14 22 52 24.9	39.06N	26.46E	5	3.2D			
ISC	XI	**14 23 05 14.9**±.95	**38.83N**±.060	**25.90E**±.084	**18**±14		**12**	**1-2**	
ATH	XI	14 23 05 14.2	38.85N	25.65E	18				¶97xi2373
THE	XI	14 23 05 16.7	38.9N	26.0E	25				
ISC	XI	**14 23 05 47**±1.2	**38.88N**±.073	**25.89E**±.070	**21**±14		**14**	**0-3**	
ATH	XI	14 23 05 47.3	38.90N	25.83E	17	3.5D			¶97xi2374
THE	XI	14 23 05 48.3	38.9N	25.9E	25				
ISC	XI	**14 23 40 43**±1.8	**38.86N**±.052	**25.99E**±.057	**5**±16		**19**	**0-3**	
ISK	XI	14 23 40 42.4	38.82N	25.92E	10	3.3D			¶97xi2380
ATH	XI	14 23 40 44.8	38.82N	25.98E	27	3.6D			
THE	XI	14 23 40 46.8	39.0N	26.1E	25				
ISC	XI	**15 00 01 42**±1.5	**38.81N**±.083	**25.8E**±.24	**5**		**4**	**1-2**	
ATH	XI	15 00 01 41.9	38.84N	25.64E	5	3.5D			¶97xi2385
ISC		Poorly determined							
ISC	XI	**15 00 04 06.9**±.48	**38.87N**±.047	**25.89E**±.049	**12**		**29**	**0-4**	
THE	XI	15 00 04 05.6	38.8N	26.1E	12	3.1L			¶97xi2386
ATH	XI	15 00 04 08.9	38.89N	26.21E	33	3.7D			
ATH	XI	**15 00 51 23.1**	**38.83N**	**25.71E**	**18**	**3.4D**			¶97xi2392
ISC	XI	**15 01 11 54**±3.8	**38.85N**±.053	**25.94E**±.059	**10**±33		**19**	**0-4**	
THE	XI	15 01 11 55.0	38.9N	26.0E	0	2.9L			¶97xi2393
ATH	XI	15 01 11 55.5	38.86N	25.91E	27	3.6D			
ISC	XI	**15 01 43 51.8**±.73	**38.94N**±.049	**25.86E**±.054	**26**±9.7		**23**	**0-4**	
THE	XI	15 01 43 50.9	38.8N	25.9E	20	3.1L			¶97xi2400
ATH	XI	15 01 43 52.6	39.00N	25.83E	18	3.3L			
ISC	XI	**15 02 38 26**±1.1	**38.90N**±.052	**25.92E**±.065	**21**±12		**21**	**0-4**	
THE	XI	15 02 38 25.0	38.8N	26.0E	15	3.0L			¶97xi2403
ATH	XI	15 02 38 27.6	38.92N	26.14E	35	3.4L			
ISC	XI	**15 04 16 39.0**±.70	**38.88N**±.069	**25.89E**±.092	**36**		**9**	**0-2**	
ATH	XI	15 04 16 39.2	38.87N	26.02E	36	3.3L			¶97xi2413
ISC	XI	**15 04 24 13**±1.6	**38.80N**±.082	**25.7E**±.23	**5**		**4**	**1-2**	
ATH	XI	15 04 24 13.3	38.85N	25.58E	5	3.5D			¶97xi2414
ISC		Poorly determined							
ISC	XI	**15 04 37 30.1**±.91	**38.88N**±.069	**26.1E**±.14	**30**±15		**8**	**0-2**	
ATH	XI	15 04 37 29.3	38.86N	25.72E	18	3.5D			¶97xi2416
THE	XI	15 04 37 32.4	39.0N	26.0E	20				
ISC	XI	**15 06 12 52**±1.1	**38.83N**±.037	**25.82E**±.035	**5**±8.9		**49**	**1-7**	
ISK	XI	15 06 12 48.2	38.84N	25.47E	10	3.7D			¶97xi2430
NEIC	XI	15 06 12 53.5	38.94N	25.93E	10				
ATH	XI	15 06 12 53.8	38.79N	25.87E	26	3.7L			
THE	XI	15 06 12 56.8	38.9N	25.6E	25	3.6L			
ISC	XI	**15 06 41 21**±3.0	**38.9N**±.15	**25.6E**±.34	**10**		**6**	**1-3**	
ATH	XI	15 06 41 19.2	39.01N	25.32E	10	3.7D			¶97xi2434
ISC	XI	**15 07 08 45**±1.3	**38.85N**±.073	**25.8E**±.18	**19**		**7**	**1-2**	
ATH	XI	15 07 08 44.7	38.88N	25.69E	19	3.6D			¶97xi2437
ISC	XI	**15 07 44 06.0**±.87	**38.83N**±.057	**25.88E**±.070	**18**±13		**15**	**1-4**	
THE	XI	15 07 44 05.6	38.7N	25.9E	25				¶97xi2440
ATH	XI	15 07 44 07.2	38.85N	25.97E	26	3.3L			
ISC	XI	**15 14 22 43**±1.0	**38.84N**±.062	**25.94E**±.094	**26**±16		**15**	**0-3**	
ATH	XI	15 14 22 42.7	38.81N	25.77E	17	3.7D			¶97xi2490
THE	XI	15 14 22 44.6	38.8N	26.1E	20				
ISC	XI	**15 15 01 20**±1.5	**38.83N**±.085	**25.9E**±.13	**24**±24		**7**	**1-2**	
ATH	XI	15 15 01 20.4	38.82N	25.89E	27	3.6D			¶97xi2494

Agency		Origin Time			ϕ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
ISC	**XI**	**15**	**15 11**	**39.4**±.43	**38.87N**±.039	**25.95E**±.045	**8**		**32**	**0-5**
ISK	XI	15	15 11	32.3	38.69N	25.30E	8	3.6D		¶97xi2496
NEIC	XI	15	15 11	37.9	38.76N	25.81E	10			
ATH	XI	15	15 11	41.0	38.85N	26.00E	29	3.7D		
THE	XI	15	15 11	42.5	39.0N	26.1E	22			
NEIC	Less reliable solution.									
ATH	**XI**	**15**	**19 40**	**20.1**	**38.83N**	**25.97E**	**35**	**3.3D**		**¶97xi2525**
ISC	**XI**	**15**	**20 41**	**30**±1.6	**38.8N**±.10	**25.7E**±.22	**10**		**4**	**1-2**
ATH	XI	15	20 41	30.3	38.80N	25.76E	10	3.4D		¶97xi2534
ISC	Poorly determined									
ISC	**XI**	**15**	**21 31**	**51**±3.5	**38.9N**±.19	**25.8E**±.50	**10**		**4**	**1-2**
ATH	XI	15	21 31	50.7	38.95N	25.68E	10	3.6D		¶97xi2540
ISC	Poorly determined									
ISC	**XI**	**15**	**21 55**	**12**±1.6	**38.86N**±.060	**25.9E**±.12	**17**±20		**12**	**0-4**
ATH	XI	15	21 55	11.6	38.86N	25.83E	16	3.7D		¶97xi2544
ISC	**XI**	**15**	**22 07**	**08.6**±.62	**38.81N**±.062	**25.78E**±.073	**30**		**16**	**1-5**
ATH	XI	15	22 07	08.9	38.78N	25.82E	30	3.7D		¶97xi2546
THE	XI	15	22 07	10.1	38.9N	25.8E	25	2.8L		
ISC	**XI**	**15**	**22 38**	**45**±1.6	**38.86N**±.090	**25.7E**±.24	**5**		**4**	**1-2**
ATH	XI	15	22 38	44.9	38.86N	25.58E	5	3.5D		¶97xi2554
ISC	Poorly determined									
ISC	**XI**	**15**	**22 44**	**37**±1.6	**38.80N**±.026	**25.79E**±.026	**9**±12	**4.1b**	**145**	**1-77**
ISK	XI	15	22 44	35.8	38.86N	25.78E	9	4.2D		¶97xi2555
NEIC	XI	15	22 44	36.0	38.77N	25.80E	10	4.3b		
BJI	XI	15	22 44	38.0	38.80N	25.80E	10			
ATH	XI	15	22 44	39.0	38.86N	25.87E	24	4.5L		
THE	XI	15	22 44	40.6	38.9N	25.8E	25	4.1L		
EIDC	XI	15	22 44	41.5	38.8N	25.8E	31	3.8b,4.0L		
ISC	**XI**	**15**	**23 30**	**58**±1.3	**38.85N**±.070	**25.7E**±.17	**5**		**8**	**1-2**
ATH	XI	15	23 30	58.2	38.81N	25.61E	5	3.6D		¶97xi2563
ISC	**XI**	**15**	**23 46**	**46**±1.8	**38.81N**±.050	**25.83E**±.071	**25**±22		**18**	**1-4**
ATH	XI	15	23 46	46.5	38.82N	25.84E	29	3.7D		¶97xi2568
ATH	**XI**	**15**	**23 55**	**22.0**	**38.71N**	**26.19E**	**10**	**3.5D**		**¶97xi2570**
ATH	**XI**	**16**	**02 32**	**45.8**	**38.89N**	**25.62E**	**20**	**3.5D**		**¶97xi2583**
ISC	**XI**	**16**	**03 01**	**09**±1.5	**38.85N**±.088	**25.8E**±.25	**18**		**4**	**1-2**
ATH	XI	16	03 01	08.9	38.86N	25.72E	18	3.4D		¶97xi2587
ISC	Poorly determined									
ISC	**XI**	**16**	**03 17**	**26**±2.2	**38.83N**±.071	**25.8E**±.19	**18**±21		**9**	**1-3**
ATH	XI	16	03 17	26.7	38.80N	25.75E	17	3.5D		¶97xi2590
ISC	**XI**	**16**	**03 35**	**48**±1.0	**38.86N**±.065	**25.90E**±.092	**24**±14		**9**	**0-2**
ATH	XI	16	03 35	48.1	38.88N	25.86E	19	3.2L		¶97xi2591
ATH	**XI**	**16**	**04 12**	**34.4**	**38.86N**	**25.78E**	**22**	**3.5D**		**¶97xi2594**
ISC	**XI**	**16**	**05 31**	**39.5**±.62	**38.79N**±.056	**25.86E**±.079	**5**		**11**	**1-4**
ATH	XI	16	05 31	40.1	38.82N	25.76E	5	3.4L		¶97xi2601
ISC	**XI**	**16**	**06 17**	**15.1**±.60	**38.87N**±.055	**25.85E**±.072	**5**		**17**	**0-4**
ATH	XI	16	06 17	14.6	38.84N	25.58E	5	3.8D		¶97xi2603
THE	XI	16	06 17	19.2	38.9N	25.8E	25	2.9L		
ATH	**XI**	**16**	**07 38**	**44.1**	**38.92N**	**25.32E**	**17**	**3.7D**		**¶97xi2612**
ISC	**XI**	**16**	**18 14**	**31**±3.1	**38.75N**±.094	**25.6E**±.20	**13**±25		**7**	**1-3**
ATH	XI	16	18 14	30.8	38.82N	25.47E	5	3.5D		¶97xi2680
ISC	**XI**	**16**	**19 20**	**01.3**±.60	**38.85N**±.047	**25.87E**±.072	**10**		**17**	**1-4**
ISK	XI	16	19 20	00.0	38.89N	25.80E	10	3.4D		¶97xi2686
NEIC	XI	16	19 20	01.5	38.91N	25.90E	10			
ATH	XI	16	19 20	03.0	38.86N	25.84E	24	3.3L		
NEIC	Poor solution.									
ISC	**XI**	**16**	**19 24**	**33.6**±.40	**38.81N**±.040	**25.80E**±.041	**7**		**40**	**1-5**
ISK	XI	16	19 24	30.3	38.69N	25.52E	7	3.7D		¶97xi2687
NEIC	XI	16	19 24	33.8	38.72N	25.79E	10			
ATH	XI	16	19 24	35.5	38.83N	25.93E	26	3.5L		
THE	XI	16	19 24	36.1	38.9N	25.9E	25	3.4L		
ISC	**XI**	**17**	**07 11**	**42**±1.5	**38.85N**±.086	**25.9E**±.26	**15**		**4**	**1-2**
ATH	XI	17	07 11	42.3	38.86N	25.79E	15	3.3D		¶97xi2757
ISC	Poorly determined									
ISC	**XI**	**17**	**08 17**	**28**±1.8	**38.87N**±.056	**25.82E**±.080	**12**±17		**19**	**1-3**
ATH	XI	17	08 17	29.2	38.82N	25.82E	15	3.8D		¶97xi2762
ISK	XI	17	08 17	32.1	39.12N	26.28E	10	3.3D		
NEIC	XI	17	08 17	33.6	39.11N	26.27E	10			
THE	XI	17	08 17	33.9	39.1N	26.0E	25			
NEIC	Single network solution.									
ISC	**XI**	**17**	**08 30**	**40**±1.2	**38.86N**±.073	**25.9E**±.18	**21**		**7**	**0-2**
ATH	XI	17	08 30	39.8	38.84N	25.79E	21	3.6D		¶97xi2766
ISC	**XI**	**17**	**11 29**	**25.9**±.95	**38.82N**±.063	**25.8E**±.13	**16**		**9**	**1-2**
ATH	XI	17	11 29	26.0	38.81N	25.73E	16	3.5D		¶97xi2789
ISC	**XI**	**17**	**14 05**	**11**±2.6	**38.78N**±.076	**25.8E**±.18	**1**±24		**7**	**1-2**
ATH	XI	17	14 05	12.7	38.77N	25.82E	5	3.3D		¶97xi2812
ISC	**XI**	**17**	**14 55**	**00**±1.5	**38.80N**±.068	**25.6E**±.17	**5**		**7**	**1-3**
ATH	XI	17	14 55	01.6	38.78N	25.54E	5	3.5D		¶97xi2816
ISC	**XI**	**17**	**15 33**	**33**±1.3	**39.00N**±.062	**23.62E**±.075	**2**±13		**11**	**0-2**
THE	XI	17	15 33	33.5	38.9N	23.7E	17	2.6L		¶97xi2821
ATH	XI	17	15 33	35.1	38.90N	23.65E	5	3.0L		
ISC	**XI**	**17**	**16 49**	**14**±3.4	**39.0N**±.15	**25.3E**±.39	**16**		**5**	**1-3**
ATH	XI	17	16 49	15.3	38.95N	25.28E	16			¶97xi2830
ISC	**XI**	**17**	**17 00**	**25**±1.6	**38.84N**±.064	**25.8E**±.12	**20**±23		**13**	**1-2**
ATH	XI	17	17 00	25.5	38.82N	25.87E	24	3.4D		¶97xi2835
THE	XI	17	17 00	26.0	38.8N	25.8E	25			
ISC	**XI**	**17**	**21 30**	**44**±1.5	**38.77N**±.077	**25.7E**±.23	**5**		**4**	**1-2**
ATH	XI	17	21 30	46.1	38.76N	25.73E	5	3.2D		¶97xi2862
ISC	Poorly determined									
THE	**XI**	**18**	**02 00**	**47.3**	**39.2N**	**23.7E**	**0**			**¶97xi2899**
ISC	**XI**	**18**	**03 54**	**42**±1.9	**38.82N**±.041	**25.86E**±.042	**23**±23		**41**	**1-5**
ISK	XI	18	03 54	41.7	38.88N	25.94E	9	3.6D		¶97xi2907
NEIC	XI	18	03 54	41.7	38.88N	25.87E	10			
ATH	XI	18	03 54	42.5	38.80N	25.88E	29	3.4L		
NEIC	Single network solution.									
ISC	**XI**	**18**	**18 07**	**51**±2.1	**38.85N**±.058	**25.9E**±.14	**28**±22		**19**	**1-4**
ATH	XI	18	18 07	50.1	38.81N	25.74E	15	3.8D		¶97xi3033
NEIC	XI	18	18 07	58.3	39.06N	26.85E	10			
ISK	XI	18	18 07	58.7	39.03N	27.01E	9	3.5D		
NEIC	Single network solution.									
ISC	**XI**	**18**	**20 11**	**05.8**±.92	**38.82N**±.034	**25.84E**±.045	**19**±11		**43**	**1-5**
THE	XI	18	20 11	03.3	38.7N	25.9E	0	3.6L		¶97xi3053
ISK	XI	18	20 11	04.4	38.84N	25.83E	9	3.8D		
NEIC	XI	18	20 11	05.3	38.88N	25.86E	10			
ATH	XI	18	20 11	06.0	38.84N	25.82E	17	3.8L		
ISC	**XI**	**18**	**20 44**	**04**±1.6	**38.82N**±.054	**25.80E**±.063	**11**±13		**28**	**1-11**
THE	XI	18	20 44	02.4	38.7N	25.9E	0			¶97xi3058
ATH	XI	18	20 44	03.1	38.83N	25.56E	5	3.6D		
ISC	**XI**	**18**	**23 14**	**10.2**±.89	**38.86N**±.064	**25.8E**±.12	**17**		**11**	**1-3**
ATH	XI	18	23 14	10.6	38.87N	25.87E	17	3.4D		¶97xi3085
ISC	**XI**	**19**	**01 39**	**34**±1.4	**38.86N**±.069	**25.5E**±.16	**5**		**9**	**1-3**
ATH	XI	19	01 39	35.2	38.85N	25.55E	5	3.4D		¶97xi3103
ISC	**XI**	**19**	**10 55**	**57.8**±.78	**38.81N**±.079	**25.42E**±.092	**10**		**10**	**1-3**
ISK	XI	19	10 55	56.6	38.80N	25.31E	11	3.4D		¶97xi3196
NEIC	XI	19	10 55	58.7	38.81N	25.47E	10			
ATH	XI	19	10 55	59.1	38.85N	25.54E	39	3.5L		
NEIC	Less reliable solution.									
ISC	**XI**	**19**	**16 32**	**55.2**±.43	**38.89N**±.045	**25.87E**±.036	**5**	**3.7b**	**59**	**0-82**
ATH	XI	19	16 32	53.9	38.80N	25.53E	5	3.7L		¶97xi3258
ISK	XI	19	16 32	54.7	38.85N	25.85E	7	3.7D		
THE	XI	19	16 32	57.0	38.9N	26.0E	25	3.6L		
NEIC	XI	19	16 32	58.7	38.94N	25.87E	33			
EIDC	XI	19	16 33	02.7	39.0N	25.5E	36	3.5b,3.8L		
ISC	**XI**	**19**	**21 16**	**37.9**±.45	**38.86N**±.044	**25.84E**±.038	**10**		**43**	**1-5**
ISK	XI	19	21 16	37.0	38.85N	25.90E	10	3.7D		¶97xi3317
THE	XI	19	21 16	37.0	38.7N	26.0E	20	3.7L		
ATH	XI	19	21 16	38.8	38.76N	26.23E	38	3.8L		
NEIC	XI	19	21 16	40.0	38.86N	25.80E	33			
ISC	**XI**	**19**	**21 24**	**51**±1.2	**38.9N**±.14	**25.9E**±.10	**0**		**7**	**1-2**
THE	XI	19	21 24	51.2	38.9N	25.9E	0			¶97xi3318
ISC	**XI**	**19**	**23 15**	**41.6**±.54	**38.95N**±.056	**25.82E**±.051	**36**		**32**	**0-4**
ATH	XI	19	23 15	38.0	38.70N	26.45E	36	3.5L		¶97xi3331
ISK	XI	19	23 15	39.5	38.94N	26.00E	10	3.5D		
ISC	**XI**	**20**	**00 58**	**25**±1.2	**38.8N**±.13	**25.83E**±.086	**10**		**9**	**1-3**
THE	XI	20	00 58	24.6	38.8N	25.9E	10			¶97xi3354
ISC	**XI**	**20**	**11 59**	**44**±1.7	**39.1N**±.14	**23.3E**±.11	**22**		**6**	**0-2**
THE	XI	20	11 59	45.0	39.1N	23.4E	22			¶97xi3459
ISC	**XI**	**20**	**13 11**	**58**±1.5	**38.86N**±.048	**25.74E**±.047	**3**±12		**31**	**1-5**
ATH	XI	20	13 12	00.3	38.87N	25.80E	23	3.4L		¶97xi3470
ISK	XI	20	13 12	01.7	38.97N	26.00E	10	3.4D		
NEIC	XI	20	13 12	02.4	38.96N	25.79E	33			
ISC	**XI**	**21**	**20 19**	**16**±1.3	**38.2N**±.13	**24.3E**±.10	**10**		**10**	**2-4**
ATH	XI	21	20 19	10.0	37.49N	24.73E	10			¶97xi3733
ISC	**XI**	**22**	**17 40**	**41**±1.6	**40.4N**±.15	**25.6E**±.26	**1**±26		**7**	**1-3**
THE	XI	22	17 40	41.7	40.4N	25.6E	0			¶97xi3924
ISC	**XI**	**22**	**21 39**	**25**±1.7	**38.95N**±.074	**26.1E**±.24	**10**		**7**	**0-2**
ATH	XI	22	21 39	25.7	39.12N	26.70E	10	3.3D		¶97xi3966
ISK	XI	22	21 39	27.2	39.05N	26.51E	10	2.9D		
ISC	**XI**	**23**	**11 41**	**17**±1.3	**38.82N**±.051	**25.89E**±.063	**6**±12		**17**	**1-3**
ISK	XI	23	11 41	15.7	38.85N	25.61E	10	3.2D		¶97xi4109
ATH	XI	23	11 41	17.2	38.87N	25.62E	5	3.5D		
THE	XI	23	11 41	20.8	38.8N	25.9E	10			
ISC	**XI**	**23**	**13 08**	**48.3**±.65	**39.99N**±.042	**23.42E**±.062	**6**±9.2		**14**	**0-2**
THE	XI	23	13 08	49.8	40.0N	23.4E	7	2.5L		¶97xi4125
ISC	**XI**	**23**	**14 42**	**22**±5.0	**38.7N**±.31	**24.6E**±.22	**16**±26		**7**	**1-2**
THE	XI	23	14 42	24.9	38.7N	24.6E	15	2.9L		¶97xi4134
ISC	**XI**	**23**	**15 14**	**44**±1.0	**40.42N**±.067	**25.85E**±.067	**7**±12		**11**	**0-2**
THE	XI	23	15 14	46.1	40.5N	25.7E	0	3.0L		¶97xi4138
ISC	**XI**	**23**	**21 23**	**03**±1.0	**38.41N**±.079	**26.7E**±.13	**14**		**5**	**0-2**
ATH	XI	23	21 23	00.7	38.44N	27.23E	14			¶97xi4199
ISC	**XI**	**25**	**09 18**	**31.7**±.59	**38.98N**±.052	**25.93E**±.051	**8**		**30**	**0-5**
ATH	XI	25	09 18	29.1	38.77N	26.81E	31	3.8L		¶97xi4481
ISK	XI	25	09 18	34.2	38.98N	26.25E	8	3.5D		
ISC	**XI**	**26**	**03 37**	**30**±1.4	**38.77N**±.032	**24.88E**±.032	**11**±11	**4.0b**,3.2s	**71**	**1-77**
ISK	XI	26	03 37	25.8	38.84N	24.44E	12	3.9D		¶97xi4623
NEIC	XI	26	03 37	29.9	38.77N	24.85E	10	4.3b		
THE	XI	26	03 37	32.2	38.8N	24.9E	20	3.8L		
ATH	XI	26	03 37	33.0	38.76N	24.91E	35	4.2L		
EIDC	XI	26	03 37	36.9	39.3N	24.0E	0	3.9b,3.4s		
ISC	**XI**	**26**	**09 11**	**11**±1.2	**38.84N**±.044	**25.83E**±.042	**16**±14		**42**	**1-5**
ISK	XI	26	09 11	09.6	38.85N	25.79E	11	3.5D		¶97xi4663
NEIC	XI	26	09 11	10.4	38.87N	25.82E	10			
ATH	XI	26	09 11	11.4	38.84N	25.90E	26	3.7L		
ISC	**XI**	**27**	**11 18**	**22**±3.7	**38.76N**±.094	**25.9E**±.26	**8**±25		**6**	**1-3**
ATH	XI	27	11 18	22.9	38.78N	25.87E	10	3.6D		¶97xi4846
ISC	**XI**	**28**	**02 04**	**24**±1.4	**38.75N**±.093	**25.9E**±.31	**31**		**4**	**1-2**
ATH	XI	28	02 04	23.7	38.70N	25.75E	31	3.6D		¶97xi4992
ISC	Poorly determined									
ISC	**XI**	**28**	**16 59**	**05.7**±.65	**40.62N**±.037	**24.14E**±.054	**8**±6.7		**25**	**0-3**
THE	XI	28	16 59	08.1	40.6N	24.1E	18	2.9L		¶97xi5116
ISC	**XI**	**29**	**04 31**	**26**±1.7	**38.25N**±.065	**26.5E**±.11	**6**±14		**9**	**1-3**
ATH	XI	29	04 31	27.3	38.19N	26.65E	50	3.7D		¶97xi5198
ISC	**XI**	**29**	**09 17**	**25**±1.3	**38.82N**±.058	**25.89E**±.085	**17**±16		**17**	**1-4**
ATH	XI	29	09 17	25.9	38.83N	26.08E	31	3.4L		¶97xi5231
ISK	XI	29	09 17	27.2	39.06N	26.26E	10	3.3D		
NEIC	XI	29	09 17	27.9	39.03N	26.17E	10			
ISC	**XI**	**29**	**09 50**	**19**±1.1	**38.72N**±.068	**25.9E**±.11	**32**±19		**13**	**1-2**
ATH	XI	29	09 50	19.3	38.79N	25.91E	29	3.5D		¶97xi5243
ISK	XI	29	09 50	21.4	39.03N	26.27E	10	3.2D		
ISC	**XI**	**29**	**18 06**	**06**±1.7	**38.58N**±.094	**26.1E**±.18	**10**		**4**	**1-2**
ATH	XI	29	18 06	06.7	38.60N	25.88E	10	3.6D		¶97xi5301
ISC	Poorly determined									
ISC	**XII**	**02**	**06 28**	**28**±4.4	**38.7N**±.28	**24.1E**±.19	**16**		**6**	**1-2**
THE	XII	02	06 28	29.1	38.7N	24.1E	16			¶97xii0194
ISC	**XII**	**02**	**13 37**	**30**±1.9	**39.0N**±.19	**23.1E**±.11	**3**±22		**6**	**1-2**
THE	XII	02	13 37	30.6	38.9N	23.1E	15	2.5L		¶97xii0256
ISC	**XII**	**02**	**15 24**	**29**±1.3	**40.0N**±.16	**24.83E**±.092	**0**		**4**	**0-1**
THE	XII	02	15 24	30.1	40.0N	24.9E	0			¶97xii0271
ISC	Poorly determined									
ISC	**XII**	**02**	**18 03**	**25**±1.2	**39.34N**±.086	**23.5E**±.10	**15**±17		**7**	**0-2**
THE	XII	02	18 03	26.3	39.3N	23.6E	10	2.2L		¶97xii0290
ISC	**XII**	**03**	**15 06**	**32**±1.5	**39.02N**±.072	**24.0E**±.12	**14**±11		**9**	**0-3**
ATH	XII	03	15 06	32.5	39.00N	23.99E	10	2.9L		¶97xii0448
ISC	**XII**	**04**	**20 52**	**16**±4.4	**39.1N**±.29	**24.1E**±.13	**5**		**5**	**0-1**
THE	XII	04	20 52	14.3	38.8N	24.0E	5			¶97xii0691
ISC	**XII**	**05**	**07 46**	**57.4**±.95	**39.93N**±.068	**23.33E**±.083	**0**		**8**	**0-1**
THE	XII	05	07 46	58.5	39.9N	23.4E	0	2.0L		¶97xii0801
ISC	**XII**	**05**	**14 15**	**30**±2.8	**39.0N**±.17	**24.1E**±.14	**5**		**6**	**0-2**
THE	XII	05	14 15	31.0	39.0N	24.1E	5			¶97xii0898
ISC	**XII**	**05**	**21 21**	**46**±3.2	**39.1N**±.20	**24.1E**±.15	**6**±17		**6**	**0-2**
THE	XII	05	21 21	47.2	39.1N	24.1E	0			¶97xii1102
ISC	**XII**	**06**	**02 13**	**44**±1.1	**39.32N**±.076	**23.10E**±.078	**5**±13		**12**	**1-2**
THE	XII	06	02 13	45.3	39.3N	23.1E	15	2.6L		¶97xii1203
ISC	**XII**	**06**	**16 22**	**36**±5.6	**38.6N**±.33	**26.2E**±.41	**10**		**6**	**1-3**
ISK	XII	06	16 22	38.0	38.81N	26.43E	10	3.1D		¶97xii1464
ISC	**XII**	**06**	**17 03**	**47.3**±.82	**40.37N**±.084	**25.93E**±.088	**10**		**16**	**1-3**
ISK	XII	06	17 03	46.5	40.42N	25.98E	10	3.1D		¶97xii1472
ISK	**XII**	**06**	**21 17**	**10.2**	**38.71N**	**25.43E**	**10**	**3.1D**		**¶97xii1534**
ISC	**XII**	**08**	**16 33**	**41.1**±.90	**39.56N**±.046	**23.98E**±.077	**14**±8.4		**19**	**0-3**
ATH	XII	08	16 33	34.4	39.63N	23.20E	10			¶97xii1963
THE	XII	08	16 33	41.3	39.5N	24.1E	19	2.6L		

ISC	**XII**	**09 07 42 33**±1.6	**38.51N**±.060	**26.7E**±.11	**10**±11		**15**	**0-4**	
ISK	XII	09 07 42 32.3	38.53N	26.67E	8	3.4D			¶97xii2126
ATH	XII	09 07 42 33.1	38.51N	27.03E	10	3.6D			
ISC	**XII**	**10 12 01 35**±1.2	**39.59N**±.056	**25.68E**±.056	**9**±10		**25**	**1-4**	
THE	XII	10 12 01 34.6	39.5N	25.8E	5	3.1L			¶97xii2344
ATH	XII	10 12 01 37.5	39.64N	25.87E	31	3.4D			
NEIC	XII	10 12 01 39.7	39.56N	26.16E	10				
NEIC	Less reliable solution.								
ISC	**XII**	**11 17 43 54**±3.5	**39.2N**±.22	**24.4E**±.18	**0**		**4**	**0-1**	
THE	XII	11 17 43 54.1	39.1N	24.4E	0				¶97xii2610
ISC	Poorly determined								
ISC	**XII**	**12 04 06 03**±1.1	**38.9N**±.12	**25.8E**±.11	**15**		**6**	**0-3**	
ATH	XII	12 04 06 04.0	38.91N	25.83E	15				¶97xii2691
ISC	**XII**	**12 09 46 51**±1.2	**38.82N**±.029	**25.82E**±.032	**11**±9.6	**4.0b**	**81**	**1-74**	
THE	XII	12 09 46 49.9	38.7N	26.0E	9	3.8L			¶97xii2724
EIDC	XII	12 09 46 51.8±1.55	38.9N	25.6E	0	3.8b,3.4s			
ISK	XII	12 09 46 52.1	38.88N	25.95E	9	3.9D			
ATH	XII	12 09 46 52.6	38.84N	25.86E	26	3.9L			
NEIC	XII	12 09 46 52.8	38.90N	25.87E	20	4.1b			
EIDC	Error ellipse is semi-major=32.7km semi-minor=22.4km azimuth=13								
ISC	**XII**	**12 09 49 41.8**±.81	**38.82N**±.033	**25.88E**±.040	**19**±10		**44**	**1-4**	
THE	XII	12 09 49 36.2	38.6N	26.2E	0	3.7L			¶97xii2725
ISK	XII	12 09 49 39.7	38.85N	25.78E	8	3.8D			
NEIC	XII	12 09 49 41.2	38.88N	25.87E	11				
ATH	XII	12 09 49 42.9	38.81N	25.98E	26	3.8L			
ISC	**XII**	**12 11 01 18.8**±.84	**38.87N**±.063	**25.8E**±.10	**10**		**11**	**1-3**	
ISK	XII	12 11 01 19.0	38.98N	25.96E	10	3.5D			¶97xii2736
ATH	XII	12 11 01 20.3	38.85N	25.81E	24	3.3L			
ISC	**XII**	**12 17 25 23.0**±.22	**38.85N**±.024	**25.82E**±.027	**10**	**4.1b,3.3s**	**113**	**1-74**	
ISK	XII	12 17 25 20.7	38.92N	25.66E	11	4.2D			¶97xii2793
THE	XII	12 17 25 22.3	38.7N	25.9E	13	3.9L			
NEIC	XII	12 17 25 23.2	38.86N	25.90E	10	4.0b			
EIDC	XII	12 17 25 23.2±.80	38.8N	25.6E	0	3.8b,3.6s			
ATH	XII	12 17 25 24.2	38.84N	25.89E	23	4.2L			
BJI	XII	12 17 25 26.4	39.10N	26.51E	5	4.7b			
EIDC	Error ellipse is semi-major=19.8km semi-minor=15.6km azimuth=88								
ISC	**XII**	**12 17 30 52**±1.1	**38.92N**±.052	**25.84E**±.067	**20**±13		**22**	**0-4**	
NEIC	XII	12 17 30 51.2	38.94N	25.78E	10				¶97xii2794
THE	XII	12 17 30 52.5	38.9N	25.9E	21	2.8L			
ATH	XII	12 17 30 53.3	38.91N	25.99E	28	3.3L			
NEIC	Less reliable solution.								
ISC	**XII**	**17 01 02 16**±1.3	**39.92N**±.070	**23.8E**±.13	**2**		**5**	**0-1**	
THE	XII	17 01 02 17.4	39.9N	23.8E	2	2.0L			¶97xii3533
ATH	**XII**	**17 15 32 30.0**	**39.25N**	**25.17E**	**5**	**3.2L**			¶97xii3624
ISC	**XII**	**17 17 29 20**±2.1	**38.57N**±.051	**24.25E**±.087	**2**±19		**14**	**1-3**	
THE	XII	17 17 29 22.7	38.6N	24.3E	14	2.9L			¶97xii3640
ATH	XII	17 17 29 22.7	38.59N	24.25E	15	3.4L			
ISC	**XII**	**18 00 18 06.5**±.81	**38.43N**±.052	**26.68E**±.069	**23**±11		**17**	**0-4**	
NEIC	XII	18 00 18 04.3	38.43N	26.53E	10				¶97xii3682
ATH	XII	18 00 18 06.2	38.45N	26.88E	32	3.7L			
ISK	XII	18 00 18 06.9	38.45N	26.76E	10	3.4D			
NEIC	Poor solution.								
ISC	**XII**	**18 05 08 04.6**±.79	**39.81N**±.039	**23.50E**±.054	**8**±6.6		**31**	**0-4**	
THE	XII	18 05 08 05.3	39.7N	23.5E	20	3.5L			¶97xii3711
ATH	XII	18 05 08 07.0	39.91N	23.52E	30	3.6D			
ISC	**XII**	**18 12 43 54.9**±.96	**38.36N**±.079	**25.71E**±.084	**10**		**11**	**1-4**	
ATH	XII	18 12 43 56.3	38.48N	25.63E	10	3.1L			¶97xii3765
ISK	XII	18 12 43 56.5	38.39N	25.61E	10	3.4D			
ISC	**XII**	**18 20 30 33.5**±.53	**38.83N**±.046	**25.86E**±.061	**10**		**23**	**1-4**	
ISK	XII	18 20 30 18.0	38.40N	24.56E	10	3.5D			¶97xii3819
ATH	XII	18 20 30 35.0	38.89N	25.92E	25	3.3L			
ISC	**XII**	**18 20 35 47**±1.9	**38.89N**±.079	**26.1E**±.12	**19**±21		**8**	**0-2**	
ATH	XII	18 20 35 47.2	38.89N	26.12E	21	3.4L			¶97xii3821
ISC	**XII**	**19 08 51 00.9**±.43	**38.86N**±.039	**25.91E**±.042	**10**		**37**	**0-5**	
ATH	XII	19 08 51 02.2	38.83N	25.89E	27	3.5L			¶97xii3919
NEIC	XII	19 08 51 02.2	38.94N	26.00E	10				
ISK	XII	19 08 51 07.7	39.07N	26.72E	10	3.5D			
NEIC	Less reliable solution.								
ISC	**XII**	**22 10 16 27**±1.8	**38.9N**±.13	**25.3E**±.24	**25**		**4**	**1-3**	
ATH	XII	22 10 16 27.5	39.00N	25.47E	25	3.6D			¶97xii4400
ISC	**XII**	**22 17 33 56.2**±.71	**38.83N**±.029	**25.82E**±.030	**19**±7.0	**4.0b**	**106**	**1-88**	
ISK	XII	22 17 33 48.8	38.80N	25.26E	8	4.0D			¶97xii4456
THE	XII	22 17 33 53.5	38.7N	26.0E	4	3.8L			
NEIC	XII	22 17 33 54.8	38.83N	25.80E	10	4.1b			
ATH	XII	22 17 33 56.7	38.84N	25.93E	26	4.0L			
EIDC	XII	22 17 34 01.1±2.90	38.9N	25.8E	41±28.2	3.8b,4.0L			
EIDC	Error ellipse is semi-major=20.5km semi-minor=15.2km azimuth=88								
ISC	**XII**	**23 02 14 05**±3.5	**38.8N**±.10	**25.7E**±.23	**10**±29		**5**	**1-2**	
ATH	XII	23 02 14 05.4	38.85N	25.65E	5	3.6D			¶97xii4520
ISC	Poorly determined								
ISC	**XII**	**23 09 05 25.7**±.61	**38.82N**±.025	**25.95E**±.027	**19**±6.0	**4.1b,3.2s**	**145**	**0-128**	
ISK	XII	23 09 05 17.2	38.83N	25.26E	8	4.1D			¶97xii4573
EIDC	XII	23 09 05 24.1±.63	38.8N	26.0E	0	4.1b,3.3s			
NEIC	XII	23 09 05 24.2	38.81N	25.96E	10	4.2b			
THE	XII	23 09 05 25.7	38.8N	26.0E	19	4.2L			
ATH	XII	23 09 05 26.8	38.84N	26.00E	29	4.3L			
EIDC	Error ellipse is semi-major=16.8km semi-minor=14.1km azimuth=79								
ISC	**XII**	**23 11 07 08.9**±.64	**38.81N**±.055	**25.90E**±.074	**9**		**13**	**1-3**	
THE	XII	23 11 07 07.1	38.6N	26.1E	9				¶97xii4587
ATH	XII	23 11 07 08.2	38.84N	25.59E	5	3.5D			
ISC	**XII**	**23 17 24 28**±1.2	**38.90N**±.052	**26.5E**±.10	**5**±10		**13**	**0-4**	
ISK	XII	23 17 24 26.2	38.98N	26.38E	10	3.3D			¶97xii4630
ATH	XII	23 17 24 28.5	38.87N	26.29E	11	3.5D			
NEIC	XII	23 17 24 30.0	38.95N	26.63E	10				
NEIC	Poor solution.								
ISC	**XII**	**23 18 32 03**±3.4	**38.8N**±.10	**25.8E**±.23	**13**±28		**5**	**1-2**	
ATH	XII	23 18 32 02.7	38.87N	25.59E	5	3.4D			¶97xii4639
ISC	Poorly determined								
ISC	**XII**	**24 00 07 48.5**±.61	**38.89N**±.054	**25.92E**±.069	**10**		**19**	**0-4**	
ISK	XII	24 00 07 48.2	38.64N	25.92E	10	3.3D			¶97xii4674
ATH	XII	24 00 07 51.2	38.92N	26.11E	30	3.3L			
THE	XII	24 00 07 54.0	39.2N	25.8E	10				
ATH	**XII**	**24 04 33 05.9**	**38.91N**	**26.28E**	**10**				¶97xii4705
ATH	**XII**	**25 12 11 32.6**	**39.51N**	**24.95E**	**10**	**3.0D**			¶97xii4925
ATH	**XII**	**26 10 39 24.5**	**38.90N**	**25.54E**	**10**	**3.6D**			¶97xii5106
ISC	**XII**	**26 16 12 52**±1.2	**39.03N**±.036	**24.43E**±.056	**5**±9.4		**32**	**0-4**	
ATH	XII	26 16 12 54.1	39.03N	24.49E	19	3.3L			¶97xii5172
THE	XII	26 16 12 55.6	39.1N	24.4E	13	2.9L			
ATH	**XII**	**26 23 15 57.0**	**38.74N**	**25.33E**	**15**				¶97xii5205
ISC	**XII**	**28 06 22 02**±1.2	**40.26N**±.099	**25.2E**±.12	**10**		**5**	**1-2**	
ATH	XII	28 06 22 03.5	40.27N	25.20E	10	3.0D			¶97xii5409
ISC	**XII**	**29 22 09 55.6**±.78	**39.62N**±.068	**25.45E**±.082	**3**		**9**	**0-2**	
ATH	XII	29 22 09 55.9	39.95N	26.84E	10				¶97xii5642
THE	XII	29 22 09 57.3	39.6N	25.4E	3				
ISC	**XII**	**31 00 28 39.5**±.33	**38.85N**±.035	**25.91E**±.034	**9**		**44**	**0-5**	
ISK	XII	31 00 28 35.7	38.85N	25.55E	9	3.8D			¶97xii5806
THE	XII	31 00 28 40.2	38.8N	26.1E	20	3.8L			
NEIC	XII	31 00 28 41.1	38.94N	26.04E	10				
ATH	XII	31 00 28 41.3	38.80N	26.08E	16	3.6L			
NEIC	Poor solution.								
ISC	**XII**	**31 00 48 18.2**±.61	**38.87N**±.055	**25.96E**±.066	**7**		**18**	**0-4**	
ISK	XII	31 00 48 02.5	38.60N	24.46E	7	3.5D			¶97xii5813
ATH	XII	31 00 48 18.1	38.79N	26.45E	37	3.5L			

(366) Turkey.

ISC	**VII**	**01 07 33 10**±1.1	**39.09N**±.089	**27.5E**±.17	**10**		**5**	**1-1**	
ISK	VII	01 07 33 08.2	39.19N	27.36E	10	2.7D			¶97vii0043
ISK	**VII**	**01 07 42 40.4**	**39.65N**	**29.40E**	**10**	**2.6D**			¶97vii0044
ISC	**VII**	**01 08 38 25**±2.1	**39.7N**±.12	**29.4E**±.10	**6**±14		**9**	**0-2**	
ISK	VII	01 08 38 25.3	39.70N	29.31E	10	2.7D			¶97vii0050
ISC	**VII**	**01 10 05 56**±2.4	**39.1N**±.26	**27.6E**±.32	**7**±43		**6**	**1-1**	
ISK	VII	01 10 05 55.1	39.19N	27.57E	10	2.7D			¶97vii0064
ISC	Poorly determined								
ISC	**VII**	**01 12 46 52**±1.1	**39.09N**±.096	**27.6E**±.15	**10**		**6**	**1-1**	
ISK	VII	01 12 46 50.4	39.19N	27.47E	10	2.7D			¶97vii0090
ISK	**VII**	**01 12 52 04.6**	**40.29N**	**29.59E**	**10**	**2.5D**			¶97vii0091
ISK	**VII**	**01 13 35 38.0**	**39.18N**	**27.32E**	**10**	**2.7D**			¶97vii0097
ISC	**VII**	**01 15 48 52.0**±.90	**40.25N**±.091	**28.73E**±.069	**10**		**8**	**0-1**	
ISK	VII	01 15 48 52.2	40.24N	28.78E	10	2.5D			¶97vii0112
ISK	**VII**	**02 08 15 33.3**	**39.60N**	**29.41E**	**10**	**2.5D**			¶97vii0202
ISC	**VII**	**02 11 27 00.5**±.98	**40.6N**±.10	**27.52E**±.089	**13**±13		**7**	**0-1**	
ISK	VII	02 11 27 00.4	40.66N	27.49E	10	2.5D			¶97vii0231
ISK	**VII**	**02 11 44 35.7**	**39.24N**	**27.41E**	**10**	**2.7D**			¶97vii0232
ISC	**VII**	**02 13 09 08**±1.3	**39.0N**±.12	**27.7E**±.18	**33**		**6**	**1-1**	
									¶97vii0245
ISK	**VII**	**02 14 11 18.7**	**39.67N**	**29.47E**	**10**	**2.6D**			¶97vii0254
ISK	**VII**	**03 07 24 48.3**	**39.62N**	**29.42E**	**10**	**2.5D**			¶97vii0372
ISC	**VII**	**03 07 32 06**±1.1	**39.12N**±.093	**27.6E**±.15	**5**		**7**	**1-1**	
ISK	VII	03 07 32 05.3	39.20N	27.48E	5	2.7D			¶97vii0373
ISC	**VII**	**03 09 28 41**±1.1	**39.12N**±.088	**27.5E**±.14	**5**		**5**	**1-1**	
ISK	VII	03 09 28 40.4	39.19N	27.40E	5	2.7D			¶97vii0384
ISC	**VII**	**03 11 47 01**±1.0	**39.06N**±.092	**27.6E**±.15	**10**		**7**	**1-2**	
ISK	VII	03 11 47 02.0	39.05N	27.54E	10	2.8D			¶97vii0405
ISC	**VII**	**03 13 07 31.0**±.66	**37.89N**±.059	**29.36E**±.078	**10**		**15**	**0-3**	
ISK	VII	03 13 07 29.2	37.90N	29.32E	10	3.3D			¶97vii0414
NEIC	VII	03 13 07 30.8	37.90N	29.32E	10				
NEIC	Single network solution.								
ISC	**VII**	**04 04 48 24**±1.1	**39.4N**±.12	**27.7E**±.12	**5**		**5**	**1-2**	
ISK	VII	04 04 48 24.6	39.39N	27.84E	5	2.7D			¶97vii0499
ISK	**VII**	**04 07 40 59.6**	**39.46N**	**29.57E**	**10**	**2.7D**			¶97vii0519
ISC	**VII**	**04 08 00 35.7**±.85	**39.14N**±.071	**27.6E**±.13	**10**		**8**	**1-2**	
ISK	VII	04 08 00 33.3	39.25N	27.36E	5	3.0D			¶97vii0521
NEIC	VII	04 08 00 34.1	39.25N	27.35E	10				
NEIC	Single network solution.								
ISK	**VII**	**04 08 11 18.4**	**39.52N**	**29.51E**	**6**	**2.6D**			¶97vii0523
ISC	**VII**	**04 10 42 17**±1.1	**39.06N**±.095	**27.6E**±.15	**10**		**5**	**1-1**	
ISK	VII	04 10 42 15.4	39.16N	27.45E	10	2.7D			¶97vii0537
ISK	**VII**	**04 14 27 38.5**	**39.54N**	**29.52E**	**5**	**2.6D**			¶97vii0574
ISC	**VII**	**04 14 58 26**±1.2	**39.0N**±.11	**27.7E**±.17	**33**		**5**	**1-1**	
									¶97vii0578
ISC	**VII**	**04 15 25 32**±1.4	**40.2N**±.25	**28.33E**±.089	**13**		**6**	**0-2**	
ISK	VII	04 15 25 30.6	40.09N	28.26E	13	2.9D			¶97vii0583
ISC	**VII**	**04 21 36 28.7**±.74	**39.26N**±.056	**29.4E**±.11	**7**		**14**	**1-3**	
ISK	VII	04 21 36 27.7	39.25N	29.44E	7	3.2D			¶97vii0623
NEIC	VII	04 21 36 28.4	39.24N	29.45E	10				
NEIC	Single network solution.								
ISK	**VII**	**05 12 53 56.3**	**39.63N**	**29.43E**	**10**	**2.6D**			¶97vii0730
ISK	**VII**	**06 06 58 42.7**	**39.21N**	**27.51E**	**10**	**2.6D**			¶97vii0851
ISK	**VII**	**06 09 00 14.5**	**39.90N**	**29.93E**	**10**	**2.5D**			¶97vii0857
ISC	**VII**	**06 10 14 08**±1.1	**39.10N**±.094	**27.6E**±.15	**5**		**6**	**1-1**	
ISK	VII	06 10 14 07.6	39.17N	27.45E	5	2.7D			¶97vii0864
ISC	**VII**	**06 10 19 48**±1.1	**40.4N**±.13	**28.93E**±.084	**10**		**6**	**0-1**	
ISK	VII	06 10 19 48.2	40.39N	28.98E	10	2.6D			¶97vii0866
NEIC	VII	06 10 19 48.3	40.43N	28.94E	10				
NEIC	MD2.6(ISK), Poor solution.								
ISK	**VII**	**07 07 04 06.8**	**39.57N**	**29.45E**	**6**	**2.5D**			¶97vii1007
ISC	**VII**	**07 07 49 53**±14	**39.5N**±.62	**29.6E**±.72	**5**		**7**	**1-1**	
ISK	VII	07 07 49 55.2	39.53N	29.55E	5	2.6D			¶97vii1013
ISC	Poorly determined								
ISC	**VII**	**07 14 31 36**±3.7	**40.1N**±.15	**29.5E**±.32	**10**		**6**	**0-1**	
ISK	VII	07 14 31 35.6	40.21N	29.53E	10	2.6D			¶97vii1056
ISK	**VII**	**08 07 09 22.7**	**39.67N**	**29.44E**	**10**	**2.6D**			¶97vii1147
ISK	**VII**	**08 07 30 00.1**	**39.59N**	**29.48E**	**10**	**2.5D**			¶97vii1149
ISK	**VII**	**08 08 30 15.1**	**39.55N**	**29.55E**	**5**	**2.4D**			¶97vii1156
ISK	**VII**	**08 09 04 02.7**	**39.23N**	**27.33E**	**10**	**2.7D**			¶97vii1164
ISC	**VII**	**08 09 33 34**±1.3	**37.78N**±.069	**29.33E**±.099	**2**±13		**7**	**1-3**	
ISK	VII	08 09 33 33.9	37.82N	29.32E	10	3.1D			¶97vii1167
ISK	**VII**	**08 12 04 31.5**	**39.09N**	**27.66E**	**10**	**2.6D**			¶97vii1183
ISC	**VII**	**08 16 48 24**±1.3	**40.6N**±.14	**39.9E**±.12	**10**		**12**	**1-7**	
ISK	VII	08 16 48 31.3	40.10N	38.82E	10	3.8D			¶97vii1211
ISK	**VII**	**09 00 32 43.9**	**39.66N**	**28.91E**	**10**	**2.6D**			¶97vii1256
ISK	**VII**	**09 04 50 23.9**	**37.10N**	**28.65E**	**9**	**2.9D**			¶97vii1282
ISK	**VII**	**09 07 51 13.9**	**39.59N**	**29.51E**	**5**	**2.7D**			¶97vii1297
ISK	**VII**	**09 09 02 55.4**	**39.62N**	**29.50E**	**10**	**2.7D**			¶97vii1305
ISC	**VII**	**09 09 24 36.4**±.64	**40.78N**±.053	**27.59E**±.037	**5**±6.3		**31**	**0-4**	
ATH	VII	09 09 24 33.9	41.12N	27.98E	18				¶97vii1308
ISK	VII	09 09 24 36.7	40.79N	27.60E	11	3.3D			
THE	VII	09 09 24 40.3	40.7N	27.4E	10	3.4L			
ISC	**VII**	**09 09 46 49**±1.6	**39.1N**±.11	**27.7E**±.26	**11**		**4**	**1-1**	
ISK	VII	09 09 46 49.1	39.14N	27.63E	11	2.8D			¶97vii1314
ISC	Poorly determined								
ISC	**VII**	**09 11 48 56**±1.5	**39.0N**±.11	**27.6E**±.26	**10**		**4**	**1-1**	
ISK	VII	09 11 48 55.3	39.10N	27.63E	10	2.7D			¶97vii1329
ISC	Poorly determined								
ISC	**VII**	**09 13 10 43**±1.0	**39.09N**±.093	**27.7E**±.16	**10**		**6**	**1-2**	
ISK	VII	09 13 10 43.5	39.15N	27.60E	10	2.8D			¶97vii1342
ISC	**VII**	**09 15 32 09**±8.1	**39.5N**±.49	**28.5E**±.24	**10**		**4**	**0-1**	
ISK	VII	09 15 32 10.2	39.59N	28.51E	10	2.6D			¶97vii1357
ISC	Poorly determined								

Agency		Origin Time			φ	λ	h	Mag	n	Δ-Rng	
	mo	d	h m	s	°	°	km			°	
ISK	**VII**	**10**	**07**	**12 25.9**	**39.20N**	**27.38E**	**10**	**2.6D**			**¶97vii1467**
ISK	**VII**	**10**	**07**	**26 10.9**	**39.65N**	**29.49E**	**10**	**2.6D**			**¶97vii1470**
ISK	**VII**	**10**	**08**	**05 44.2**	**39.60N**	**29.45E**	**10**	**2.6D**			**¶97vii1473**
ISK	**VII**	**10**	**08**	**24 42.1**	**39.66N**	**29.52E**	**10**	**2.5D**			**¶97vii1479**
ISC	**VII**	**10**	**08**	**34 23**±1.3	**39.1N**±.15	**27.7E**±.35	**10**		**4**	**1-1**	
ISK	VII	10	08	34 22.3	39.14N	27.50E	10	2.7D			**¶97vii1480**
ISC	Poorly determined										
ISK	**VII**	**10**	**08**	**41 07.1**	**39.28N**	**27.61E**	**6**	**2.6D**			**¶97vii1481**
ISK	**VII**	**10**	**09**	**16 21.4**	**39.25N**	**27.52E**	**10**	**2.7D**			**¶97vii1485**
ISC	**VII**	**10**	**10**	**12 50**±1.5	**38.97N**±.094	**27.4E**±.32	**14**		**5**	**1-1**	
ISK	VII	10	10	12 49.6	38.93N	27.55E	14	2.7D			**¶97vii1496**
ISC	**VII**	**10**	**15**	**50 41.0**±.82	**39.01N**±.069	**40.45E**±.082	**35**±13	**3.6b**	**21**	**1-77**	
NEIC	VII	10	15	50 37.9	38.99N	40.45E	10	3.7b			**¶97vii1531**
ISK	VII	10	15	50 38.8	38.96N	40.44E	15	3.8D			
EIDC	VII	10	15	50 39.3	39.1N	40.2E	0	3.6b,3.1L			
NEIC	Poor solution.										
ISC	**VII**	**10**	**20**	**59 56.6**±.86	**40.62N**±.083	**35.17E**±.083	**8**		**8**	**0-2**	
ISK	VII	10	20	59 55.8	40.54N	35.10E	8	3.1D			**¶97vii1569**
ISC	**VII**	**11**	**07**	**14 02**±2.9	**39.2N**±.12	**27.6E**±.18	**12**±28		**5**	**1-2**	
ISK	VII	11	07	14 02.5	39.16N	27.63E	10	2.7D			**¶97vii1640**
ISC	Poorly determined										
ISK	**VII**	**11**	**07**	**16 17.7**	**39.30N**	**27.25E**	**15**	**2.7D**			**¶97vii1641**
ISC	**VII**	**11**	**07**	**55 23**±2.2	**39.7N**±.13	**29.5E**±.10	**3**±15		**8**	**1-2**	
ISK	VII	11	07	55 21.9	39.60N	29.53E	10	2.7D			**¶97vii1646**
ISC	**VII**	**11**	**08**	**48 11**±2.9	**39.1N**±.10	**27.7E**±.17	**5**±28		**6**	**1-2**	
ISK	VII	11	08	48 12.8	39.04N	27.66E	10	2.8D			**¶97vii1650**
ISK	**VII**	**11**	**10**	**57 45.1**	**39.20N**	**27.77E**	**11**	**2.7D**			**¶97vii1679**
ISK	**VII**	**11**	**12**	**03 44.2**	**39.21N**	**27.35E**	**9**	**2.6D**			**¶97vii1683**
ISC	**VII**	**11**	**15**	**10 54**±7.3	**41.2N**±.68	**28.5E**±.36	**10**±14		**5**	**0-1**	
ISK	VII	11	15	10 51.5	41.36N	28.41E	8	2.7D			**¶97vii1699**
ISC	Poorly determined										
ISC	**VII**	**12**	**00**	**14 03**±1.3	**36.82N**±.098	**30.8E**±.10	**10**		**6**	**1-2**	
ISK	VII	12	00	14 04.5	36.79N	30.85E	10	3.1D			**¶97vii1747**
ISC	**VII**	**12**	**07**	**23 40**±1.2	**39.1N**±.11	**27.8E**±.18	**10**		**5**	**1-1**	
ISK	VII	12	07	23 40.1	39.05N	27.78E	10	2.8D			**¶97vii1787**
ISC	**VII**	**12**	**07**	**32 43.3**±.89	**39.07N**±.073	**27.7E**±.15	**10**		**6**	**1-2**	
ISK	VII	12	07	32 43.5	39.04N	27.75E	10	2.7D			**¶97vii1788**
ISK	**VII**	**12**	**08**	**02 24.8**	**39.65N**	**29.49E**	**10**	**2.5D**			**¶97vii1790**
ISK	**VII**	**12**	**08**	**36 49.6**	**39.90N**	**29.15E**	**10**	**2.5D**			**¶97vii1794**
ISC	**VII**	**12**	**14**	**37 02**±3.5	**41.6N**±.26	**28.3E**±.16	**5**		**6**	**0-2**	
ISK	VII	12	14	37 03.8	41.49N	28.33E	5	2.6D			**¶97vii1827**
ISK	**VII**	**12**	**15**	**34 15.1**	**40.68N**	**29.99E**	**9**	**2.6D**			**¶97vii1833**
ISK	**VII**	**12**	**18**	**28 37.4**	**40.63N**	**30.11E**	**12**	**2.6D**			**¶97vii1852**
ISC	**VII**	**12**	**19**	**45 00**±3.4	**40.2N**±.27	**29.2E**±.20	**13**±15		**6**	**0-1**	
ISK	VII	12	19	45 00.7	40.25N	29.18E	8	2.7D			**¶97vii1861**
ISK	**VII**	**13**	**15**	**22 41.9**	**41.39N**	**28.34E**	**10**	**2.6D**			**¶97vii1988**
ISC	**VII**	**13**	**15**	**24 33**±13	**41.3N**±.77	**28.4E**±.43	**6**±30		**5**	**0-1**	
ISK	VII	13	15	24 32.2	41.32N	28.41E	10	2.7D			**¶97vii1989**
ISC	Poorly determined										
ISC	**VII**	**13**	**16**	**48 05.5**±.92	**37.38N**±.073	**36.8E**±.11	**10**		**7**	**0-2**	
ISK	VII	13	16	48 05.1	37.45N	36.72E	10	3.3D			**¶97vii1999**
ISC	**VII**	**13**	**19**	**41 16**±4.4	**38.2N**±.34	**43.3E**±.39	**10**		**5**	**0-5**	
ISK	VII	13	19	41 15.4	38.35N	43.10E	10	3.7D			**¶97vii2016**
ISC	**VII**	**14**	**07**	**32 04**±1.3	**39.31N**±.098	**27.5E**±.22	**10**		**4**	**1-1**	
ISK	VII	14	07	32 04.2	39.33N	27.54E	10	2.7D			**¶97vii2081**
ISC	Poorly determined										
ISC	**VII**	**14**	**07**	**52 00**±1.5	**39.9N**±.10	**28.9E**±.13	**15**		**4**	**0-1**	
ISK	VII	14	07	52 00.6	39.92N	28.84E	15	2.5D			**¶97vii2083**
ISC	Poorly determined										
ISK	**VII**	**14**	**07**	**54 19.3**	**39.95N**	**28.80E**	**10**	**2.6D**			**¶97vii2084**
ISK	**VII**	**14**	**09**	**24 21.5**	**39.51N**	**29.98E**	**10**	**2.6D**			**¶97vii2093**
ISC	**VII**	**14**	**09**	**25 05**±7.1	**41.4N**±.40	**28.3E**±.17	**8**±25		**6**	**0-1**	
ISK	VII	14	09	25 05.2	41.41N	28.35E	8	2.7D			**¶97vii2094**
ISC	**VII**	**14**	**09**	**54 52**±9.4	**39.6N**±.71	**30.5E**±.43	**10**		**5**	**1-2**	
ISK	VII	14	09	54 52.0	39.60N	30.52E	10	2.7D			**¶97vii2098**
ISC	Poorly determined										
ISC	**VII**	**14**	**10**	**20 43**±1.3	**39.0N**±.12	**27.7E**±.17	**12**		**4**	**1-1**	
ISK	VII	14	10	20 43.4	39.10N	27.65E	12	2.7D			**¶97vii2104**
ISC	Poorly determined										
ISK	**VII**	**14**	**11**	**58 28.7**	**39.78N**	**29.32E**	**10**	**2.6D**			**¶97vii2124**
ISK	**VII**	**14**	**12**	**20 05.8**	**40.28N**	**29.61E**	**10**	**2.5D**			**¶97vii2128**
ISK	**VII**	**14**	**13**	**01 32.6**	**39.63N**	**29.47E**	**10**	**2.7D**			**¶97vii2132**
ISK	**VII**	**14**	**15**	**19 25.8**	**37.98N**	**30.14E**	**10**	**2.8D**			**¶97vii2159**
ISK	**VII**	**14**	**16**	**06 39.9**	**40.21N**	**29.38E**	**10**	**2.5D**			**¶97vii2169**
ISK	**VII**	**14**	**18**	**25 19.8**	**38.24N**	**27.73E**	**10**	**2.9D**			**¶97vii2187**
ISC	**VII**	**14**	**18**	**34 23**±1.4	**39.2N**±.16	**27.9E**±.34	**10**		**4**	**1-2**	
ISK	VII	14	18	34 21.7	39.16N	28.06E	10	2.7D			**¶97vii2188**
ISC	Poorly determined										
ISK	**VII**	**14**	**19**	**49 37.6**	**37.38N**	**28.17E**	**10**	**3.0D**			**¶97vii2195**
ISC	**VII**	**14**	**20**	**35 16.6**±.99	**40.67N**±.090	**29.96E**±.072	**5**±11		**9**	**0-2**	
ISK	VII	14	20	35 16.7	40.70N	29.94E	8	2.8D			**¶97vii2201**
ISC	**VII**	**15**	**02**	**04 22.9**±.74	**40.23N**±.060	**28.97E**±.059	**10**±7.8		**15**	**0-3**	
ISK	VII	15	02	04 23.1	40.24N	28.98E	11	3.3D			**¶97vii2235**
ISK	**VII**	**15**	**07**	**29 43.3**	**39.18N**	**27.45E**	**10**	**2.8D**			**¶97vii2268**
ISK	**VII**	**15**	**07**	**45 27.1**	**39.28N**	**28.04E**	**5**	**2.8D**			**¶97vii2270**
ISC	**VII**	**15**	**07**	**57 50**±1.5	**39.84N**±.094	**28.8E**±.13	**10**		**4**	**0-1**	
ISK	VII	15	07	57 50.5	39.83N	28.75E	10	2.5D			**¶97vii2272**
ISC	Poorly determined										
ISK	**VII**	**15**	**08**	**00 29.3**	**39.61N**	**29.32E**	**10**	**2.6D**			**¶97vii2273**
ISK	**VII**	**15**	**08**	**40 47.2**	**39.90N**	**28.76E**	**10**	**2.5D**			**¶97vii2276**
ISK	**VII**	**15**	**08**	**56 17.7**	**39.32N**	**27.63E**	**9**	**2.7D**			**¶97vii2279**
ISK	**VII**	**15**	**09**	**23 29.4**	**39.15N**	**27.48E**	**10**	**2.7D**			**¶97vii2282**
ISK	**VII**	**15**	**09**	**53 44.6**	**39.04N**	**27.64E**	**10**	**2.7D**			**¶97vii2286**
ISC	**VII**	**15**	**10**	**00 15**±5.0	**39.6N**±.33	**29.3E**±.26	**5**		**5**	**1-1**	
ISK	VII	15	10	00 14.8	39.62N	29.34E	5	2.6D			**¶97vii2288**
ISC	Poorly determined										
ISK	**VII**	**15**	**10**	**23 08.2**	**39.09N**	**27.70E**	**7**	**2.6D**			**¶97vii2291**
ISK	**VII**	**15**	**12**	**58 17.0**	**39.86N**	**28.90E**	**10**	**2.5D**			**¶97vii2304**
ISK	**VII**	**15**	**15**	**37 10.9**	**40.41N**	**28.78E**	**10**	**2.5D**			**¶97vii2320**
ISC	**VII**	**15**	**18**	**17 12**±2.5	**38.6N**±.12	**27.0E**±.26	**8**±13		**7**	**0-3**	
ISK	VII	15	18	17 10.6	38.58N	27.04E	10	3.2D			**¶97vii2334**
ISC	**VII**	**15**	**19**	**14 08**±1.2	**39.34N**±.051	**26.83E**±.064	**7**±10		**25**	**0-4**	
ISK	VII	15	19	14 08.2	39.34N	26.87E	8	3.3D			**¶97vii2339**
ATH	VII	15	19	14 08.5	39.33N	26.92E	7				
ISC	**VII**	**15**	**21**	**00 08**±3.3	**41.9N**±.32	**34.3E**±.10	**5**		**8**	**1-3**	
ISK	VII	15	21	00 08.9	41.65N	34.22E	5	3.5D			**¶97vii2351**
ISK	**VII**	**16**	**04**	**11 34.0**	**39.33N**	**26.39E**	**5**	**3.3D**			**¶97vii2385**
ISC	**VII**	**16**	**05**	**48 00**±1.7	**39.60N**±.072	**27.7E**±.14	**7**±18		**8**	**1-3**	
ISK	VII	16	05	48 00.2	39.60N	27.76E	13	2.9D			**¶97vii2393**
ISK	**VII**	**16**	**07**	**49 20.5**	**39.09N**	**27.51E**	**5**	**2.7D**			**¶97vii2405**
ISC	**VII**	**16**	**11**	**17 23**±1.2	**39.05N**±.088	**27.6E**±.16	**10**		**5**	**1-1**	
ISK	VII	16	11	17 23.6	39.12N	27.55E	10	2.7D			**¶97vii2433**
ISK	**VII**	**16**	**12**	**13 07.5**	**39.18N**	**27.72E**	**9**	**2.7D**			**¶97vii2443**
ISC	**VII**	**16**	**20**	**13 27**±1.1	**40.7N**±.11	**29.85E**±.072	**7**±10		**12**	**0-3**	
ISK	VII	16	20	13 27.0	40.74N	29.91E	10	3.2D			**¶97vii2489**
ISK	**VII**	**17**	**07**	**02 51.6**	**39.13N**	**27.51E**	**5**	**2.7D**			**¶97vii2563**
ISC	**VII**	**17**	**12**	**29 12**±1.0	**36.95N**±.086	**30.40E**±.092	**33**		**16**	**0-5**	
ISK	VII	17	12	29 07.1	36.89N	30.40E	33	3.8D			**¶97vii2593**
ISK	**VII**	**17**	**12**	**48 38.2**	**37.06N**	**30.00E**	**13**	**2.8D**			**¶97vii2597**
ISK	**VII**	**17**	**18**	**30 38.3**	**40.69N**	**27.53E**	**5**	**2.5D**			**¶97vii2626**
ISC	**VII**	**17**	**22**	**36 41**±4.2	**38.6N**±.32	**39.5E**±.14	**10**		**7**	**1-3**	
ISK	VII	17	22	36 40.8	38.51N	39.45E	10	3.5D			**¶97vii2655**
ISK	**VII**	**18**	**11**	**26 33.9**	**39.30N**	**27.50E**	**10**	**2.8D**			**¶97vii2730**
ISK	**VII**	**18**	**11**	**39 28.2**	**39.15N**	**27.55E**	**10**	**2.7D**			**¶97vii2731**
ISK	**VII**	**18**	**12**	**27 06.3**	**39.37N**	**27.87E**	**6**	**2.6D**			**¶97vii2739**
ISK	**VII**	**18**	**13**	**08 30.8**	**39.03N**	**27.77E**	**9**	**2.7D**			**¶97vii2745**
ISK	**VII**	**18**	**14**	**12 47.5**	**40.30N**	**27.80E**	**10**	**2.6D**			**¶97vii2754**
ISK	**VII**	**18**	**15**	**10 39.7**	**41.44N**	**28.34E**	**5**	**2.7D**			**¶97vii2758**
ISK	**VII**	**19**	**08**	**28 45.2**	**38.87N**	**28.27E**	**5**	**2.7D**			**¶97vii2848**
ISK	**VII**	**19**	**12**	**27 56.0**	**38.96N**	**27.62E**	**10**	**2.7D**			**¶97vii2873**
ISK	**VII**	**19**	**13**	**34 38.2**	**38.91N**	**27.66E**	**10**	**2.7D**			**¶97vii2881**
ISC	**VII**	**19**	**14**	**01 04.6**±.77	**39.52N**±.064	**27.76E**±.087	**5**		**8**	**1-1**	
ISK	VII	19	14	01 04.6	39.53N	27.77E	5	2.8D			**¶97vii2884**
ISK	**VII**	**19**	**15**	**11 05.4**	**41.56N**	**28.36E**	**8**	**2.7D**			**¶97vii2898**
ISK	**VII**	**19**	**15**	**20 37.7**	**38.86N**	**27.68E**	**10**	**2.7D**			**¶97vii2903**
ISC	**VII**	**19**	**15**	**27 32**±1.3	**40.5N**±.11	**29.1E**±.14	**10**		**4**	**0-1**	
ISK	VII	19	15	27 31.4	40.50N	29.19E	10	2.6D			**¶97vii2905**
ISC	Poorly determined										
ISC	**VII**	**19**	**17**	**36 42**±1.1	**40.75N**±.084	**29.20E**±.070	**3**±11		**11**	**0-3**	
ISK	VII	19	17	36 41.5	40.78N	29.26E	8	3.0D			**¶97vii2923**
ISK	**VII**	**19**	**17**	**38 03.9**	**40.75N**	**29.34E**	**13**	**2.7D**			**¶97vii2924**
ISC	**VII**	**19**	**18**	**01 23**±1.0	**40.69N**±.082	**29.23E**±.086	**9**±10		**8**	**0-2**	
ISK	VII	19	18	01 22.3	40.67N	29.36E	10	2.9D			**¶97vii2929**
ISK	**VII**	**20**	**08**	**41 09.6**	**37.91N**	**30.41E**	**10**	**2.8D**			**¶97vii3051**
ISC	**VII**	**20**	**08**	**46 27**±1.7	**39.1N**±.13	**27.4E**±.38	**10**		**4**	**1-1**	
ISK	VII	20	08	46 27.0	39.15N	27.42E	10	2.7D			**¶97vii3053**
ISC	Poorly determined										
ISK	**VII**	**20**	**11**	**01 49.9**	**37.15N**	**36.88E**	**10**	**3.1D**			**¶97vii3075**
ISK	**VII**	**20**	**12**	**05 25**±1.3	**39.0N**±.11	**27.7E**±.19	**10**			**4**	**1-1**
ISK	VII	20	12	05 25.4	39.06N	27.61E	10	2.7D			**¶97vii3088**
ISC	Poorly determined										
ISK	**VII**	**20**	**12**	**44 41.1**	**39.30N**	**27.42E**	**7**	**2.7D**			**¶97vii3094**
ISC	**VII**	**20**	**12**	**47 27**±1.2	**39.0N**±.10	**27.7E**±.18	**10**		**5**	**1-1**	
ISK	VII	20	12	47 27.2	39.04N	27.73E	10	2.7D			**¶97vii3095**
ISK	**VII**	**20**	**14**	**48 02.8**	**38.97N**	**27.52E**	**10**	**2.7D**			**¶97vii3105**
ISK	**VII**	**20**	**15**	**26 27.2**	**41.31N**	**28.35E**	**10**	**2.7D**			**¶97vii3112**
ISK	**VII**	**21**	**07**	**05 01.0**	**39.14N**	**27.42E**	**9**	**2.8D**			**¶97vii3211**
ISK	**VII**	**21**	**11**	**03 19.1**	**39.12N**	**27.47E**	**5**	**2.8D**			**¶97vii3234**
ISK	**VII**	**21**	**11**	**58 07.6**	**39.15N**	**27.40E**	**5**	**2.6D**			**¶97vii3238**
ISK	**VII**	**21**	**13**	**13 16.3**	**39.12N**	**27.47E**	**10**	**2.7D**			**¶97vii3248**
ISC	**VII**	**21**	**21**	**37 10**±2.8	**39.9N**±.17	**29.67E**±.087	**4**±16		**10**	**0-2**	
ISK	VII	21	21	37 10.0	39.85N	29.65E	9	3.1D			**¶97vii3290**
ISC	**VII**	**22**	**09**	**24 29**±1.2	**40.3N**±.15	**33.1E**±.11	**33**±14		**7**	**0-2**	
											¶97vii3348
ISC	**VII**	**23**	**07**	**11 11**±1.4	**41.1N**±.15	**29.19E**±.090	**10**		**6**	**0-2**	
ISK	VII	23	07	11 09.6	41.15N	29.20E	10	2.8D			**¶97vii3494**
ISC	**VII**	**24**	**00**	**13 08.9**±.79	**37.42N**±.068	**29.8E**±.10	**33**		**12**	**1-5**	
											¶97vii3592
ISK	**VII**	**24**	**07**	**04 41.6**	**39.05N**	**27.73E**	**5**	**2.7D**			**¶97vii3635**
ISK	**VII**	**24**	**07**	**05 52.9**	**39.11N**	**27.74E**	**5**	**2.6D**			**¶97vii3636**
ISK	**VII**	**25**	**08**	**10 08.6**	**39.67N**	**29.27E**	**10**	**2.6D**			**¶97vii3803**
ISK	**VII**	**25**	**08**	**55 01.9**	**39.55N**	**29.47E**	**5**	**2.6D**			**¶97vii3808**
ISK	**VII**	**26**	**12**	**35 05.3**	**41.15N**	**29.51E**	**5**	**2.8D**			**¶97vii3965**
ISK	**VII**	**27**	**13**	**42 19.8**	**39.71N**	**29.47E**	**10**	**2.5D**			**¶97vii4115**
ISC	**VII**	**27**	**18**	**05 52.0**±.86	**38.92N**±.068	**29.5E**±.14	**33**		**9**	**1-2**	
											¶97vii4146
ISC	**VII**	**28**	**10**	**41 44**±2.3	**39.72N**±.075	**27.88E**±.093	**0**±20		**14**	**1-3**	
ISK	VII	28	10	41 44.9	39.73N	27.91E	9	2.9D			**¶97vii4254**
ISK	**VII**	**28**	**13**	**47 47.2**	**40.13N**	**29.35E**	**10**	**2.5D**			**¶97vii4283**
ISC	**VII**	**28**	**15**	**14 01.7**±.71	**40.20N**±.057	**29.18E**±.077	**8**±9.7		**12**	**0-2**	
ISK	VII	28	15	14 00.5	40.11N	29.27E	5	2.8D			**¶97vii4294**
ISC	**VII**	**28**	**16**	**38 24**±7.3	**40.0N**±.58	**28.8E**±.12	**5**		**4**	**0-1**	
ISK	VII	28	16	38 25.6	40.09N	28.79E	5	2.6D			**¶97vii4302**
ISC	Poorly determined										
ISC	**VII**	**29**	**08**	**08 54**±1.3	**39.15N**±.066	**27.1E**±.19	**33**		**12**	**1-4**	
											¶97vii4402
ISK	**VII**	**29**	**09**	**06 26.1**	**39.64N**	**29.44E**	**10**	**2.7D**			**¶97vii4412**
ISC	**VII**	**29**	**14**	**31 27.5**±.91	**40.5N**±.12	**30.05E**±.093	**14**		**6**	**0-1**	
ISK	VII	29	14	31 27.4	40.52N	30.01E	14	2.7D			**¶97vii4441**
ISC	**VII**	**30**	**07**	**41 23**±6.5	**39.7N**±.41	**29.4E**±.50	**10**		**4**	**1-1**	
ISK	VII	30	07	41 20.6	39.61N	29.57E	10	2.6D			**¶97vii4548**
ISC	Poorly determined										
ISC	**VII**	**30**	**09**	**33 07.6**±.80	**40.13N**±.070	**29.22E**±.081	**16**±11		**15**	**0-2**	
ISK	VII	30	09	33 06.0	40.09N	29.28E	10	2.9D			**¶97vii4564**
ISK	**VII**	**30**	**10**	**13 26.8**	**39.51N**	**29.60E**	**10**	**2.6D**			**¶97vii4565**
ISK	**VII**	**31**	**07**	**42 25.8**	**40.40N**	**28.18E**	**10**	**2.6D**			**¶97vii4699**
ISK	**VIII**	**01**	**12**	**37 04.6**	**39.23N**	**27.67E**	**9**	**2.8D**			**¶97viii0064**
ISK	**VIII**	**01**	**13**	**35 39.7**	**37.67N**	**37.21E**	**9**	**3.3D**			**¶97viii0068**
ISK	**VIII**	**02**	**07**	**54 30.1**	**39.85N**	**29.28E**	**10**	**2.6D**			**¶97viii0186**
ISK	**VIII**	**02**	**08**	**14 19.3**	**39.68N**	**29.40E**	**13**	**2.6D**			**¶97viii0189**
ISK	**VIII**	**02**	**10**	**41 31.2**	**39.90N**	**28.87E**	**5**	**2.5D**			**¶97viii0199**
ISK	**VIII**	**02**	**11**	**38 34.7**	**39.92N**	**29.00E**	**5**	**2.6D**			**¶97viii0207**
ISK	**VIII**	**02**	**12**	**44 26.8**	**39.35N**	**28.95E**	**15**	**2.6D**			**¶97viii0215**
ISC	**VIII**	**02**	**14**	**19 40**±6.6	**41.4N**±.39	**28.2E**±.43	**14**		**5**	**0-1**	
ISK	VIII	02	14	19 38.6	41.42N	28.14E	14	2.7D			**¶97viii0222**
ISK	**VIII**	**02**	**14**	**30 45.6**	**40.30N**	**29.55E**	**10**	**2.5D**			**¶97viii0223**
ISK	**VIII**	**02**	**14**	**35 56.3**	**41.18N**	**28.77E**	**10**	**2.6D**			**¶97viii0224**
ISK	**VIII**	**02**	**14**	**47 23.2**	**39.61N**	**29.55E**	**10**	**2.6D**			**¶97viii0226**
ISC	**VIII**	**02**	**15**	**19 14**±2.8	**37.8N**±.21	**30.4E**±.27	**9**		**6**	**2-3**	
ISK	VIII	02	15	19 14.1	38.06N	30.17E	9	3.2D			**¶97viii0231**
ISK	**VIII**	**02**	**17**	**36 45.3**	**40.42N**	**27.12E**	**10**	**2.8D**			**¶97viii0241**
ISK	**VIII**	**02**	**17**	**37 39.0**	**40.52N**	**27.35E**	**10**	**2.8D**			**¶97viii0242**
ISK	**VIII**	**02**	**22**	**09 38.8**	**40.38N**	**28.67E**	**8**	**2.6D**			**¶97viii0263**
ISK	**VIII**	**03**	**08**	**39 39.2**	**37.61N**	**29.40E**	**10**	**3.1D**			**¶97viii0336**
ISK	**VIII**	**03**	**08**	**53 38.6**	**39.19N**	**27.54E**	**10**	**2.6D**			**¶97viii0340**
ISC	**VIII**	**03**	**09**	**00 19.1**±.60	**39.99N**±.045	**29.39E**±.061	**5**		**17**	**0-3**	
ISK	VIII	03	09	00 18.5	39.98N	29.37E	5	3.2D			**¶97viii0343**
ISK	**VIII**	**03**	**09**	**47 19.5**	**41.25N**	**28.42E**	**11**	**2.6D**			**¶97viii0345**

ISC	**VIII 03 10 07 49**±2.0	**40.4N**±.16	**27.8E**±.15	**10**		**6**	**0-1**	
ISK	VIII 03 10 07 45.5	40.27N	27.56E	10	2.8D	¶97viii0348		
ISC	**VIII 03 14 21 23**±1.2	**40.69N**±.098	**29.2E**±.11	**11**		**4**	**0-1**	
ISK	VIII 03 14 21 22.6	40.73N	29.26E	11	2.6D	¶97viii0372		
ISC	Poorly determined							
ISK	**VIII 04 09 46 42.6**	**41.03N**	**28.88E**	**5**	**2.6D**	¶97viii0487		
ISC	**VIII 04 10 41 41**±1.0	**40.68N**±.093	**30.01E**±.062	**2**±11		**10**	**0-2**	
ISK	VIII 04 10 41 41.2	40.69N	30.01E	9	2.7D	¶97viii0494		
ISK	**VIII 04 14 56 51.1**	**39.30N**	**27.82E**	**12**	**2.8D**	¶97viii0516		
ISK	**VIII 05 07 42 20.8**	**39.66N**	**29.39E**	**10**	**2.7D**	¶97viii0629		
ISK	**VIII 05 08 28 38.2**	**39.59N**	**29.58E**	**10**	**2.7D**	¶97viii0640		
ISK	**VIII 05 09 38 38.9**	**39.58N**	**29.56E**	**8**	**2.5D**	¶97viii0650		
ISC	**VIII 05 10 21 52**±1.4	**39.0N**±.22	**28.0E**±.29	**5**±16		**7**	**1-3**	
ISK	VIII 05 10 21 51.8	39.07N	27.87E	10	2.7D	¶97viii0652		
ISK	**VIII 05 11 50 48.0**	**39.00N**	**27.01E**	**10**	**3.0D**	¶97viii0665		
ISK	**VIII 05 13 12 18.1**	**39.22N**	**27.72E**	**6**	**2.7D**	¶97viii0670		
ISK	**VIII 05 15 11 10.4**	**41.15N**	**28.54E**	**10**	**2.6D**	¶97viii0683		
ISK	**VIII 05 20 51 26.0**	**40.37N**	**29.09E**	**10**	**2.6D**	¶97viii0714		
ISC	**VIII 06 08 52 27.8**±.97	**39.13N**±.089	**27.5E**±.23	**10**		**6**	**1-2**	
ISK	VIII 06 08 52 29.1	39.07N	27.62E	10	2.8D	¶97viii0775		
ISK	**VIII 06 09 40 24.3**	**37.15N**	**37.32E**	**14**	**3.5D**	¶97viii0780		
ISK	**VIII 06 10 30 40.4**	**40.19N**	**29.61E**	**10**	**2.5D**	¶97viii0783		
ISK	**VIII 06 13 32 55.2**	**40.42N**	**28.88E**	**9**	**2.6D**	¶97viii0803		
ISK	**VIII 07 04 04 57.0**	**40.70N**	**27.48E**	**9**	**2.6D**	¶97viii0881		
ISK	**VIII 07 13 14 35.4**	**39.08N**	**27.69E**	**10**	**2.7D**	¶97viii0943		
ISC	**VIII 08 02 39 03.1**±.37	**39.84N**±.049	**41.96E**±.046	**11**	**4.4b,3.8s**	**125**	**2-75**	
BJI	VIII 08 02 39 01.2	39.54N	41.74E	10	4.6b,4.6s	¶97viii1045		
NEIC	VIII 08 02 39 01.9	39.75N	41.87E	10	4.5b			
EIDC	VIII 08 02 39 02.4	39.8N	41.8E	0	4.1b,3.7s			
ISK	VIII 08 02 39 03.3	39.71N	41.98E	11	4.4D			
NEIC	Casualties.							
NEIC	One person injured and seven houses destroyed in the Koprukoy area.							
ISC	**VIII 08 07 47 51**±8.3	**39.8N**±.52	**29.4E**±.52	**13**		**4**	**1-1**	
ISK	VIII 08 07 47 48.4	39.65N	29.54E	13	2.7D	¶97viii1069		
ISC	Poorly determined							
ATH	**VIII 08 08 42 09.6**	**37.29N**	**27.46E**	**10**	**3.9D**	¶97viii1079		
ISC	**VIII 08 10 01 04.9**±.91	**40.34N**±.067	**29.14E**±.077	**10**		**7**	**0-1**	
ISK	VIII 08 10 01 04.2	40.33N	29.16E	10	2.8D	¶97viii1090		
ISK	**VIII 08 11 04 47.1**	**40.84N**	**29.66E**	**10**	**2.4D**	¶97viii1101		
ISC	**VIII 08 11 29 42**±1.5	**39.9N**±.10	**28.9E**±.14	**10**		**4**	**0-1**	
ISK	VIII 08 11 29 41.9	39.92N	28.87E	10	2.5D	¶97viii1106		
ISC	Poorly determined							
ISC	**VIII 08 11 32 47**±1.6	**39.9N**±.11	**28.9E**±.15	**12**		**4**	**0-1**	
ISK	VIII 08 11 32 47.4	39.89N	28.91E	12	2.5D	¶97viii1108		
ISC	Poorly determined							
ISC	**VIII 08 11 56 55**±2.5	**40.3N**±.12	**27.9E**±.27	**5**±19		**5**	**0-1**	
ISK	VIII 08 11 56 54.8	40.33N	27.95E	10	2.6D	¶97viii1112		
ISC	Poorly determined							
ISC	**VIII 08 13 45 27**±1.1	**39.12N**±.094	**27.6E**±.17	**10**		**5**	**1-1**	
ISK	VIII 08 13 45 27.9	39.12N	27.63E	10	2.8D	¶97viii1122		
ISK	**VIII 08 17 01 00.5**	**41.13N**	**31.48E**	**9**	**2.7D**	¶97viii1136		
ISC	**VIII 08 19 41 35**±1.9	**40.9N**±.14	**31.08E**±.089	**3**±16		**8**	**0-2**	
ISK	VIII 08 19 41 36.2	40.78N	31.04E	9	2.7D	¶97viii1155		
ISC	**VIII 08 19 42 10**±4.7	**40.8N**±.37	**31.0E**±.35	**5**±19		**7**	**0-2**	
ISK	VIII 08 19 42 09.5	40.74N	31.05E	14	2.8D	¶97viii1156		
ISK	**VIII 09 04 22 46.1**	**38.95N**	**30.01E**	**10**	**2.9D**	¶97viii1203		
ISC	**VIII 09 07 56 47**±1.4	**39.13N**±.091	**27.6E**±.18	**5**		**4**	**1-1**	
ISK	VIII 09 07 56 46.8	39.12N	27.66E	5	2.8D	¶97viii1217		
ISC	Poorly determined							
ISC	**VIII 09 08 07 06**±13	**39.5N**±.68	**29.6E**±.70	**14**±22		**5**	**1-2**	
ISK	VIII 09 08 07 07.6	39.59N	29.49E	10	2.6D	¶97viii1219		
ISC	Poorly determined							
ISC	**VIII 09 08 08 12**±8.8	**39.0N**±.75	**27.6E**±.18	**14**		**4**	**1-1**	
ISK	VIII 09 08 08 12.5	39.12N	27.49E	14	2.7D	¶97viii1220		
ISC	Poorly determined							
ISC	**VIII 09 08 58 11**±3.5	**39.4N**±.34	**27.7E**±.14	**5**		**4**	**1-1**	
ISK	VIII 09 08 58 10.6	39.29N	27.72E	5	2.6D	¶97viii1229		
ISC	Poorly determined							
ISC	**VIII 09 09 15 11**±11	**41.3N**±.75	**28.4E**±.45	**14**±14		**5**	**0-1**	
ISK	VIII 09 09 15 05.5	41.57N	28.19E	6	2.7D	¶97viii1232		
ISC	Poorly determined							
ISC	**VIII 09 11 52 43**±1.1	**39.05N**±.099	**27.7E**±.17	**10**		**5**	**1-1**	
ISK	VIII 09 11 52 44.9	39.03N	27.68E	10	2.7D	¶97viii1244		
ISK	**VIII 09 21 44 05.7**	**39.56N**	**28.25E**	**10**	**2.8D**	¶97viii1311		
ISC	**VIII 10 04 57 04**±2.1	**40.8N**±.14	**27.4E**±.15	**5**		**4**	**1-1**	
ISK	VIII 10 04 57 03.9	40.76N	27.33E	5	2.8D	¶97viii1351		
ISC	Poorly determined							
ISC	**VIII 10 06 52 35**±1.8	**40.0N**±.11	**28.1E**±.16	**6**±13		**6**	**0-1**	
ISK	VIII 10 06 52 35.0	39.99N	28.10E	6	2.8D	¶97viii1365		
ISC	**VIII 10 07 31 56**±2.6	**38.94N**±.091	**29.7E**±.44	**5**		**4**	**1-2**	
ISK	VIII 10 07 31 55.5	38.94N	29.78E	5	2.8D	¶97viii1368		
ISC	Poorly determined							
ISC	**VIII 10 07 46 17**±1.3	**39.1N**±.11	**27.6E**±.16	**10**		**4**	**1-1**	
ISK	VIII 10 07 46 16.2	38.98N	27.66E	10	2.6D	¶97viii1370		
ISC	Poorly determined							
ISC	**VIII 10 10 22 37**±1.1	**39.11N**±.094	**27.6E**±.17	**10**		**5**	**1-1**	
ISK	VIII 10 10 22 37.0	39.11N	27.62E	10	2.7D	¶97viii1379		
ISC	**VIII 10 10 50 33**±1.3	**40.33N**±.096	**27.51E**±.096	**11**±10		**8**	**0-1**	
ISK	VIII 10 10 50 33.2	40.33N	27.53E	11	2.9D	¶97viii1383		
ISC	**VIII 10 12 43 08**±3.4	**39.3N**±.33	**27.6E**±.16	**10**		**4**	**1-1**	
ISK	VIII 10 12 43 08.6	39.32N	27.49E	10	2.6D	¶97viii1395		
ISC	Poorly determined							
ISK	**VIII 10 15 11 54.8**	**41.39N**	**28.31E**	**5**	**2.7D**	¶97viii1411		
ISK	**VIII 10 15 51 20.1**	**40.68N**	**29.38E**	**9**	**2.5D**	¶97viii1418		
ISC	**VIII 10 17 31 50.4**±.79	**38.24N**±.070	**39.07E**±.074	**10**		**17**	**1-6**	
ISK	VIII 10 17 31 47.6	38.24N	39.18E	10	4.1D	¶97viii1428		
ISK	**VIII 10 22 26 05.5**	**38.18N**	**39.07E**	**10**	**4.0D**	¶97viii1468		
ISC	**VIII 11 04 46 51**±2.9	**41.5N**±.30	**33.2E**±.15	**24**±19		**8**	**0-3**	
ISK	VIII 11 04 46 49.1	41.45N	33.25E	7	3.5D	¶97viii1503		
ISC	**VIII 11 08 53 58**±1.1	**39.08N**±.097	**27.7E**±.17	**10**		**5**	**1-1**	
ISK	VIII 11 08 53 55.7	38.92N	27.69E	10	2.7D	¶97viii1534		
ISC	**VIII 11 09 02 02**±1.4	**39.1N**±.13	**27.5E**±.27	**10**		**4**	**1-1**	
ISK	VIII 11 09 02 00.4	39.17N	27.44E	10	2.6D	¶97viii1535		
ISC	Poorly determined							
ISC	**VIII 11 12 50 40.5**±.75	**39.16N**±.072	**27.6E**±.12	**10**		**9**	**1-2**	
ISK	VIII 11 12 50 39.3	38.99N	27.71E	10	2.8D	¶97viii1564		
ISC	**VIII 11 12 52 21**±6.5	**39.3N**±.39	**28.0E**±.29	**8**		**4**	**1-2**	
ISK	VIII 11 12 52 22.0	39.34N	28.05E	8	2.5D	¶97viii1567		
ISC	Poorly determined							
ISC	**VIII 11 13 11 27**±2.5	**39.1N**±.26	**27.6E**±.33	**3**±44		**5**	**1-1**	
ISK	VIII 11 13 11 25.4	38.92N	27.73E	10	2.7D	¶97viii1570		
ISC	Poorly determined							
ISC	**VIII 11 13 17 23**±1.1	**39.08N**±.096	**27.7E**±.15	**10**		**5**	**1-1**	
ISK	VIII 11 13 17 21.2	38.93N	27.70E	10	2.7D	¶97viii1571		
ISC	**VIII 12 07 28 55**±1.9	**38.9N**±.22	**27.9E**±.39	**5**		**4**	**1-1**	
ISK	VIII 12 07 28 55.8	38.98N	27.68E	5	2.7D	¶97viii1696		
ISC	Poorly determined							
ISC	**VIII 12 07 30 29**±1.1	**39.06N**±.099	**27.7E**±.17	**10**		**5**	**1-1**	
ISK	VIII 12 07 30 29.2	39.05N	27.67E	10	2.7D	¶97viii1697		
ISK	**VIII 12 08 43 03.0**	**39.16N**	**27.63E**	**10**	**2.7D**	¶97viii1704		
ISC	**VIII 12 09 12 00**±1.1	**39.08N**±.095	**27.6E**±.17	**10**		**5**	**1-1**	
ISK	VIII 12 09 12 01.1	39.06N	27.63E	10	2.7D	¶97viii1710		
ISC	**VIII 12 09 26 59**±1.4	**39.1N**±.14	**27.6E**±.36	**10**		**4**	**1-1**	
ISK	VIII 12 09 26 56.9	38.92N	27.57E	10	2.6D	¶97viii1714		
ISC	Poorly determined							
ISC	**VIII 12 10 11 07.5**±.83	**39.44N**±.063	**28.02E**±.091	**5**		**9**	**0-2**	
ISK	VIII 12 10 11 07.2	39.45N	28.03E	5	2.8D	¶97viii1719		
ISC	**VIII 12 11 16 39**±1.3	**39.48N**±.088	**28.0E**±.14	**5**		**5**	**0-1**	
ISK	VIII 12 11 16 39.1	39.47N	28.07E	5	2.7D	¶97viii1731		
ISC	**VIII 12 12 05 46**±1.6	**39.1N**±.11	**27.6E**±.14	**11**±17		**8**	**1-3**	
ISK	VIII 12 12 05 46.1	39.14N	27.59E	11	2.7D	¶97viii1746		
ISK	**VIII 12 12 21 08.0**	**39.46N**	**28.01E**	**7**	**2.5D**	¶97viii1747		
ISC	**VIII 12 13 25 57**±1.4	**39.2N**±.12	**27.6E**±.23	**13**		**4**	**1-1**	
ISK	VIII 12 13 25 56.8	39.29N	27.56E	13	2.6D	¶97viii1758		
ISC	Poorly determined							
ISC	**VIII 12 13 50 40**±1.5	**39.1N**±.12	**27.5E**±.26	**5**		**4**	**1-1**	
ISK	VIII 12 13 50 39.9	39.20N	27.41E	5	2.6D	¶97viii1760		
ISC	Poorly determined							
ISK	**VIII 12 14 43 19.7**	**39.62N**	**29.50E**	**10**	**2.5D**	¶97viii1768		
ISC	**VIII 12 15 12 25**±2.3	**39.5N**±.13	**28.0E**±.16	**5**±23		**5**	**0-1**	
ISK	VIII 12 15 12 25.5	39.49N	28.04E	10	2.8D	¶97viii1770		
ISC	Poorly determined							
ISC	**VIII 12 16 04 42**±2.6	**39.2N**±.12	**27.7E**±.18	**14**±22		**6**	**1-2**	
ISK	VIII 12 16 04 41.8	39.27N	27.64E	11	2.7D	¶97viii1777		
ISC	**VIII 12 20 14 13**±1.3	**40.68N**±.076	**27.56E**±.098	**9**±15		**10**	**0-3**	
ISK	VIII 12 20 14 12.3	40.68N	27.49E	5	2.8D	¶97viii1802		
ISC	**VIII 12 20 28 29**±5.8	**40.6N**±.12	**27.7E**±.55	**10**		**4**	**0-1**	
ISK	VIII 12 20 28 27.4	40.65N	27.71E	10	2.6D	¶97viii1803		
ISC	Poorly determined							
ISC	**VIII 12 20 44 43.3**±.58	**40.69N**±.058	**27.49E**±.054	**5**		**15**	**0-4**	
ISK	VIII 12 20 44 43.8	40.71N	27.57E	5	3.1D	¶97viii1804		
ISC	**VIII 12 20 49 42.2**±.93	**40.69N**±.062	**27.51E**±.062	**2**±10		**14**	**0-4**	
ISK	VIII 12 20 49 42.7	40.68N	27.54E	12	3.2D	¶97viii1806		
ISC	**VIII 13 06 00 01**±7.8	**39.6N**±.40	**28.1E**±.47	**10**		**4**	**0-1**	
ISK	VIII 13 06 00 00.1	39.53N	28.08E	10	2.6D	¶97viii1860		
ISC	Poorly determined							
ISC	**VIII 13 07 27 04**±1.3	**39.0N**±.12	**27.7E**±.18	**14**		**4**	**1-1**	
ISK	VIII 13 07 27 04.3	39.11N	27.63E	14	2.6D	¶97viii1869		
ISC	Poorly determined							
ISK	**VIII 13 07 55 55.2**	**39.64N**	**29.43E**	**10**	**2.7D**	¶97viii1873		
ISC	**VIII 13 08 19 50**±4.7	**39.7N**±.21	**29.4E**±.34	**10**		**5**	**1-6**	
ISK	VIII 13 08 19 47.6	39.62N	29.51E	10	2.6D	¶97viii1875		
ISC	**VIII 13 08 57 08**±5.1	**39.7N**±.26	**29.4E**±.35	**10**		**4**	**1-1**	
ISK	VIII 13 08 57 06.7	39.69N	29.40E	10	2.5D	¶97viii1880		
ISC	Poorly determined							
ISC	**VIII 13 09 14 31**±1.2	**39.0N**±.10	**27.7E**±.18	**9**		**5**	**1-1**	
ISK	VIII 13 09 14 31.4	39.12N	27.65E	9	2.7D	¶97viii1883		
ISC	**VIII 13 11 49 25**±1.2	**39.2N**±.10	**27.8E**±.15	**15**		**5**	**1-1**	
ISK	VIII 13 11 49 24.8	39.22N	27.71E	15	2.7D	¶97viii1902		
ISC	**VIII 13 13 00 34**±1.1	**39.05N**±.096	**27.6E**±.17	**10**		**5**	**1-1**	
ISK	VIII 13 13 00 34.2	39.06N	27.63E	10	2.7D	¶97viii1911		
ISC	**VIII 13 13 57 02**±1.2	**39.0N**±.10	**27.7E**±.18	**10**		**5**	**1-1**	
ISK	VIII 13 13 56 59.9	38.87N	27.77E	10	2.8D	¶97viii1915		
ISC	**VIII 13 14 24 31**±1.6	**40.0N**±.13	**29.1E**±.15	**10**		**4**	**0-1**	
ISK	VIII 13 14 24 30.1	39.98N	29.18E	10	2.6D	¶97viii1918		
ISC	Poorly determined							
ISC	**VIII 13 14 46 38**±1.8	**40.1N**±.15	**29.3E**±.18	**10**		**4**	**0-1**	
ISK	VIII 13 14 46 36.7	40.17N	29.43E	10	2.6D	¶97viii1922		
ISC	Poorly determined							
ISC	**VIII 13 15 02 17**±1.4	**39.1N**±.13	**27.6E**±.26	**10**		**4**	**1-1**	
ISK	VIII 13 15 02 15.7	39.21N	27.43E	10	2.6D	¶97viii1927		
ISC	Poorly determined							
ISC	**VIII 13 15 38 22.7**±.97	**39.30N**±.094	**27.7E**±.11	**10**		**8**	**1-2**	
ISK	VIII 13 15 38 22.4	39.34N	27.79E	10	2.8D	¶97viii1933		
ISC	**VIII 13 17 47 42**±1.2	**39.34N**±.075	**29.1E**±.16	**3**±17		**6**	**0-2**	
ISK	VIII 13 17 47 41.7	39.35N	29.06E	8	2.8D	¶97viii1943		
ISC	**VIII 14 08 36 07**±1.5	**39.1N**±.11	**27.6E**±.26	**9**		**4**	**1-1**	
ISK	VIII 14 08 36 07.3	39.14N	27.61E	9	2.7D	¶97viii2028		
ISC	Poorly determined							
ISC	**VIII 14 08 51 03**±1.1	**39.06N**±.099	**27.7E**±.17	**14**		**5**	**1-1**	
ISK	VIII 14 08 51 02.8	39.13N	27.63E	14	2.7D	¶97viii2031		
ISC	**VIII 14 09 04 32**±6.4	**39.8N**±.36	**29.3E**±.53	**10**		**4**	**1-1**	
ISK	VIII 14 09 04 31.1	39.79N	29.36E	10	2.7D	¶97viii2035		
ISC	Poorly determined							
ISC	**VIII 14 10 13 38**±1.1	**39.06N**±.098	**27.7E**±.17	**13**		**5**	**1-1**	
ISK	VIII 14 10 13 37.8	39.13N	27.62E	13	2.7D	¶97viii2044		
ISK	**VIII 14 11 26 15.2**	**39.20N**	**27.36E**	**5**	**2.6D**	¶97viii2048		
ISK	**VIII 14 11 29 20.3**	**39.24N**	**29.13E**	**10**	**2.6D**	¶97viii2049		
ISC	**VIII 14 12 19 15**±1.3	**39.1N**±.12	**27.8E**±.19	**10**		**4**	**1-1**	
ISK	VIII 14 12 19 15.2	39.07N	27.73E	10	2.7D	¶97viii2058		
ISC	Poorly determined							
ISC	**VIII 14 12 41 27**±1.2	**39.2N**±.11	**27.7E**±.16	**9**		**4**	**1-1**	
ISK	VIII 14 12 41 27.4	39.25N	27.67E	9	2.7D	¶97viii2059		
ISC	Poorly determined							
ISK	**VIII 14 13 39 30.3**	**39.15N**	**27.44E**	**10**	**2.7D**	¶97viii2068		
ISK	**VIII 14 13 49 10.3**	**39.17N**	**27.42E**	**5**	**2.6D**	¶97viii2070		
ISC	**VIII 14 15 37 15**±2.9	**39.23N**±.090	**27.7E**±.16	**12**±25		**6**	**1-6**	
ISK	VIII 14 15 37 15.3	39.28N	27.72E	9	2.7D	¶97viii2089		
ISC	**VIII 14 15 46 36**±11	**41.5N**±.63	**28.3E**±.23	**3**±27		**5**	**0-1**	
ISK	VIII 14 15 46 36.2	41.47N	28.37E	5	2.7D	¶97viii2090		
ISC	Poorly determined							
ISK	**VIII 14 20 38 28.4**	**40.70N**	**36.39E**	**9**	**3.2D**	¶97viii2109		
ISC	**VIII 15 07 36 58.2**±.98	**39.13N**±.089	**27.6E**±.14	**8**		**6**	**1-2**	
ISK	VIII 15 07 36 58.3	39.17N	27.57E	8	2.8D	¶97viii2177		
ISC	**VIII 15 07 39 07.5**±.76	**39.46N**±.059	**28.02E**±.086	**10**		**11**	**0-3**	
ISK	VIII 15 07 39 06.3	39.47N	28.06E	10	3.1D	¶97viii2179		
ISC	**VIII 15 07 47 00**±1.2	**39.48N**±.085	**28.0E**±.14	**10**		**6**	**0-2**	
ISK	VIII 15 07 46 59.0	39.48N	28.06E	10	2.8D	¶97viii2183		
ISC	**VIII 15 07 48 25**±1.4	**39.0N**±.12	**27.8E**±.19	**10**		**5**	**1-1**	
ISK	VIII 15 07 48 26.0	39.02N	27.83E	10	2.7D	¶97viii2184		

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**VIII 15 08 18 48**±6.6	**39.7N**±.40	**29.4E**±.48	**3**±17		**5**	**1-1**	
ISK	VIII 15 08 18 46.6	39.65N	29.55E	7	2.7D			¶97viii2187
ISC	Poorly determined							
ISK	**VIII 15 08 53 37.9**	**39.61N**	**28.13E**	**10**	**2.6D**			¶97viii2188
ISC	**VIII 15 09 16 50**±2.2	**39.5N**±.13	**28.0E**±.16	**7**±22		**5**	**0-1**	
ISK	VIII 15 09 16 49.8	39.48N	28.00E	10	2.7D			¶97viii2191
ISC	Poorly determined							
ISC	**VIII 15 10 43 39**±1.3	**40.9N**±.11	**28.7E**±.15	**10**		**4**	**0-1**	
ISK	VIII 15 10 43 39.6	40.98N	28.66E	10	2.6D			¶97viii2204
ISC	Poorly determined							
ISC	**VIII 15 11 38 35**±8.6	**39.5N**±.44	**28.1E**±.39	**10**		**4**	**0-1**	
ISK	VIII 15 11 38 35.0	39.50N	28.07E	10	2.6D			¶97viii2212
ISC	Poorly determined							
ISC	**VIII 15 11 40 05**±1.1	**39.10N**±.095	**27.6E**±.15	**12**		**5**	**1-1**	
ISK	VIII 15 11 40 04.6	39.16N	27.57E	12	2.7D			¶97viii2213
ISC	**VIII 15 15 41 51**±1.4	**39.3N**±.13	**27.7E**±.22	**10**		**4**	**1-1**	
ISK	VIII 15 15 41 51.2	39.33N	27.72E	10	2.6D			¶97viii2234
ISC	Poorly determined							
ISC	**VIII 16 08 55 26**±1.3	**39.48N**±.088	**28.0E**±.14	**5**		**5**	**0-1**	
ISK	VIII 16 08 55 26.3	39.49N	28.04E	5	2.6D			¶97viii2336
ISC	**VIII 16 08 57 09**±1.0	**39.09N**±.090	**27.6E**±.13	**10**		**6**	**1-2**	
ISK	VIII 16 08 57 08.4	39.13N	27.56E	10	2.7D			¶97viii2337
ISC	**VIII 16 09 02 39**±1.1	**39.17N**±.099	**27.8E**±.15	**10**		**5**	**1-1**	
ISK	VIII 16 09 02 39.4	39.16N	27.72E	10	2.7D			¶97viii2339
ISK	**VIII 16 09 31 23.2**	**39.61N**	**29.54E**	**10**	**2.5D**			¶97viii2343
ISC	**VIII 16 10 11 21**±1.3	**39.1N**±.14	**27.7E**±.33	**5**		**4**	**1-1**	
ISK	VIII 16 10 11 21.5	39.14N	27.50E	5	2.7D			¶97viii2349
ISC	Poorly determined							
ISC	**VIII 16 11 45 09**±1.2	**39.1N**±.11	**27.6E**±.18	**10**		**4**	**1-1**	
ISK	VIII 16 11 45 09.9	39.09N	27.70E	10	2.7D			¶97viii2363
ISC	Poorly determined							
ISC	**VIII 16 15 19 55**±1.2	**41.3N**±.11	**28.2E**±.19	**5**		**5**	**0-1**	
ISK	VIII 16 15 19 54.7	41.32N	28.31E	5	2.7D			¶97viii2388
ISC	**VIII 16 17 54 33**±3.0	**40.6N**±.10	**27.8E**±.27	**11**		**4**	**0-1**	
ISK	VIII 16 17 54 30.9	40.62N	27.59E	11	2.7D			¶97viii2398
ISC	Poorly determined							
ISC	**VIII 16 18 29 19**±7.7	**40.6N**±.12	**27.7E**±.71	**10**		**4**	**0-1**	
ISK	VIII 16 18 29 18.4	40.63N	27.67E	10	2.7D			¶97viii2400
ISC	Poorly determined							
ISC	**VIII 16 19 13 05.9**±.56	**40.70N**±.084	**30.21E**±.046	**5**		**16**	**0-3**	
ISK	VIII 16 19 13 05.1	40.68N	30.22E	5	3.0D			¶97viii2406
ISC	**VIII 17 08 01 55**±1.2	**39.26N**±.090	**27.4E**±.12	**5**		**4**	**1-1**	
ISK	VIII 17 08 01 54.9	39.26N	27.36E	5	2.7D			¶97viii2509
ISC	Poorly determined							
ISK	**VIII 17 08 53 35.1**	**38.89N**	**27.58E**	**10**	**2.6D**			¶97viii2514
ISK	**VIII 17 09 35 28.6**	**39.65N**	**29.48E**	**5**	**2.6D**			¶97viii2517
ISK	**VIII 17 09 46 01.8**	**39.38N**	**28.13E**	**5**	**2.5D**			¶97viii2518
ISC	**VIII 17 11 18 36.7**±.91	**39.09N**±.081	**27.6E**±.16	**11**		**7**	**1-2**	
ISK	VIII 17 11 18 36.6	39.13N	27.56E	11	2.7D			¶97viii2530
ISC	**VIII 17 15 12 38**±1.1	**40.6N**±.20	**30.33E**±.087	**33**		**8**	**0-2**	
								¶97viii2553
ISC	**VIII 17 15 15 51**±1.2	**40.68N**±.050	**27.53E**±.054	**2**±10		**25**	**0-5**	
ISK	VIII 17 15 15 51.2	40.67N	27.53E	8	3.4D			¶97viii2554
ISC	**VIII 17 21 52 13.6**±.39	**40.70N**±.037	**27.58E**±.041	**10**		**34**	**0-5**	
THE	VIII 17 21 51 56.4	39.4N	28.5E	10	3.6L			¶97viii2589
ISK	VIII 17 21 52 13.1	40.69N	27.55E	8	3.3D			
ISK	**VIII 18 07 33 21.3**	**39.64N**	**29.40E**	**6**	**2.6D**			¶97viii2636
ISK	**VIII 18 07 36 45.9**	**39.26N**	**27.33E**	**5**	**2.6D**			¶97viii2637
ISC	**VIII 18 08 38 04**±4.3	**39.7N**±.25	**29.4E**±.27	**10**		**4**	**1-1**	
ISK	VIII 18 08 38 03.9	39.63N	29.46E	10	2.6D			¶97viii2646
ISC	Poorly determined							
ISC	**VIII 18 11 03 32**±5.0	**39.7N**±.25	**29.3E**±.29	**10**		**4**	**1-1**	
ISK	VIII 18 11 03 31.4	39.66N	29.40E	10	2.6D			¶97viii2664
ISC	Poorly determined							
ISC	**VIII 18 11 10 36**±1.2	**40.5N**±.13	**29.2E**±.12	**8**±18		**5**	**0-1**	
ISK	VIII 18 11 10 35.9	40.46N	29.22E	5	2.6D			¶97viii2665
ISC	Poorly determined							
ISC	**VIII 18 11 15 38**±1.1	**39.11N**±.098	**27.7E**±.17	**10**		**6**	**1-2**	
ISK	VIII 18 11 15 37.5	39.15N	27.63E	10	2.7D			¶97viii2666
ISC	**VIII 18 15 18 27**±2.5	**39.2N**±.14	**27.9E**±.29	**28**±39		**5**	**1-1**	
ISK	VIII 18 15 18 25.7	39.22N	27.74E	9	2.7D			¶97viii2690
ISC	Poorly determined							
ISC	**VIII 18 15 25 46**±1.3	**40.4N**±.11	**27.6E**±.10	**4**±19		**6**	**0-1**	
ISK	VIII 18 15 25 46.7	40.37N	27.56E	9	2.8D			¶97viii2692
ISK	**VIII 18 21 07 58.2**	**40.71N**	**27.55E**	**5**	**2.6D**			¶97viii2713
ISC	**VIII 18 22 45 27**±3.4	**37.0N**±.27	**28.2E**±.27	**23**±12		**6**	**0-2**	
ISK	VIII 18 22 45 27.1	37.14N	28.23E	10	3.1D			¶97viii2723
ISK	**VIII 18 23 49 18.3**	**38.55N**	**30.35E**	**6**	**2.9D**			¶97viii2730
ISC	**VIII 19 07 25 32**±1.1	**39.14N**±.087	**27.5E**±.14	**10**		**5**	**1-1**	
ISK	VIII 19 07 25 33.0	39.14N	27.39E	10	2.7D			¶97viii2773
ISK	**VIII 19 07 54 15.0**	**40.75N**	**29.08E**	**6**	**2.5D**			¶97viii2777
ISC	**VIII 19 08 14 06**±1.9	**39.77N**±.089	**29.3E**±.15	**5**±15		**6**	**1-1**	
ISK	VIII 19 08 14 05.2	39.72N	29.36E	10	2.8D			¶97viii2780
ISC	**VIII 19 11 59 48**±1.3	**39.1N**±.11	**27.7E**±.19	**10**		**4**	**1-1**	
ISK	VIII 19 11 59 48.2	39.09N	27.68E	10	2.8D			¶97viii2805
ISC	Poorly determined							
ISK	**VIII 19 12 43 36.9**	**39.71N**	**29.44E**	**10**	**2.4D**			¶97viii2811
ISC	**VIII 19 13 13 58**±1.3	**39.2N**±.11	**27.7E**±.15	**14**		**4**	**1-1**	
ISK	VIII 19 13 13 58.0	39.28N	27.67E	14	2.6D			¶97viii2812
ISC	Poorly determined							
ISC	**VIII 19 15 04 57**±1.2	**40.7N**±.11	**27.5E**±.11	**12**±13		**5**	**0-1**	
ISK	VIII 19 15 04 57.2	40.64N	27.47E	15	2.8D			¶97viii2824
ISC	Poorly determined							
ISC	**VIII 19 15 27 46**±1.2	**38.16N**±.059	**27.13E**±.099	**12**±12		**13**	**0-3**	
ISK	VIII 19 15 27 44.6	38.11N	27.14E	5	3.3D			¶97viii2827
ATH	VIII 19 15 27 52.9	38.46N	25.54E	10	3.5D			
ISC	**VIII 19 20 50 14**±2.4	**37.1N**±.17	**27.7E**±.17	**10**		**7**	**0-2**	
ISK	VIII 19 20 50 13.7	37.21N	27.83E	10	3.2D			¶97viii2869
ISC	**VIII 20 08 54 30**±1.2	**39.2N**±.11	**27.7E**±.16	**10**		**5**	**1-1**	
ISK	VIII 20 08 54 29.5	39.25N	27.60E	10	2.7D			¶97viii2931
ISC	**VIII 20 10 28 26.5**±.55	**39.57N**±.047	**28.55E**±.066	**10**		**20**	**0-3**	
ISK	VIII 20 10 28 24.4	39.50N	28.54E	10	3.1D			¶97viii2942
ISK	**VIII 20 12 40 28.0**	**40.58N**	**27.52E**	**10**	**2.6D**			¶97viii2963
ISK	**VIII 20 12 55 03.9**	**39.08N**	**27.65E**	**10**	**2.7D**			¶97viii2967
ISC	**VIII 20 15 12 32**±1.2	**40.2N**±.11	**28.8E**±.11	**10**		**4**	**1-1**	
ISK	VIII 20 15 12 31.9	40.20N	28.80E	10	2.5D			¶97viii2980
ISC	Poorly determined							
ISC	**VIII 20 17 18 59.6**±.88	**40.71N**±.088	**34.43E**±.074	**10**		**10**	**0-2**	
ISK	VIII 20 17 18 58.5	40.67N	34.48E	10	3.2D			¶97viii2994
ISC	**VIII 21 03 39 41**±1.0	**37.3N**±.12	**28.65E**±.094	**5**		**5**	**0-2**	
ISK	VIII 21 03 39 40.6	37.36N	28.60E	5	3.0D			¶97viii3050
ISC	**VIII 21 07 26 36**±1.1	**39.05N**±.095	**27.6E**±.17	**14**		**5**	**1-1**	
ISK	VIII 21 07 26 35.7	39.11N	27.57E	14	2.7D			¶97viii3069
ISK	**VIII 21 09 38 37.5**	**39.89N**	**28.83E**	**15**	**2.5D**			¶97viii3079
ISC	**VIII 21 15 20 31**±1.3	**39.30N**±.097	**27.5E**±.22	**10**		**4**	**1-1**	
ISK	VIII 21 15 20 30.0	39.33N	27.53E	10	2.8D			¶97viii3112
ISC	Poorly determined							
ISK	**VIII 22 07 17 59.8**	**39.20N**	**27.36E**	**10**	**2.7D**			¶97viii3191
ISK	**VIII 22 07 18 52.0**	**39.23N**	**27.37E**	**10**	**2.6D**			¶97viii3192
ISC	**VIII 22 07 54 20**±1.7	**39.1N**±.13	**27.4E**±.37	**10**		**4**	**1-1**	
ISK	VIII 22 07 54 19.2	39.21N	27.36E	10	2.7D			¶97viii3195
ISC	Poorly determined							
ISK	**VIII 22 08 09 52.0**	**40.73N**	**28.90E**	**6**	**2.6D**			¶97viii3197
ISK	**VIII 22 08 54 37.7**	**40.78N**	**30.10E**	**10**	**2.7D**			¶97viii3201
ISC	**VIII 22 09 37 20**±1.3	**39.1N**±.11	**27.7E**±.16	**10**		**4**	**1-1**	
ISK	VIII 22 09 37 20.8	39.10N	27.66E	10	2.7D			¶97viii3203
ISC	Poorly determined							
ISC	**VIII 22 09 42 33.7**±.98	**39.28N**±.086	**27.6E**±.12	**10**		**6**	**1-2**	
ISK	VIII 22 09 42 34.4	39.30N	27.61E	10	2.7D			¶97viii3204
ISC	**VIII 22 11 15 33**±1.4	**39.94N**±.095	**28.8E**±.12	**10**		**4**	**0-1**	
ISK	VIII 22 11 15 33.2	39.94N	28.84E	10	2.5D			¶97viii3213
ISC	Poorly determined							
ISC	**VIII 22 11 46 57**±1.0	**40.45N**±.091	**27.03E**±.089	**10**±14		**7**	**0-2**	
ISK	VIII 22 11 46 56.5	40.48N	27.03E	14	2.9D			¶97viii3218
ISK	**VIII 22 13 46 00.8**	**37.55N**	**30.82E**	**5**	**2.9D**			¶97viii3233
ISK	**VIII 22 14 43 08.9**	**38.06N**	**36.72E**	**10**	**2.8D**			¶97viii3241
ISC	**VIII 22 19 32 42**±1.3	**40.7N**±.17	**30.4E**±.10	**5**		**7**	**1-2**	
ISK	VIII 22 19 32 41.3	40.73N	30.37E	5	2.9D			¶97viii3271
ISC	**VIII 22 19 46 44**±1.3	**40.4N**±.12	**27.6E**±.11	**7**±14		**6**	**0-1**	
ISK	VIII 22 19 46 44.5	40.40N	27.67E	8	3.0D			¶97viii3275
ISC	**VIII 22 22 58 43**±2.3	**38.3N**±.18	**35.1E**±.25	**10**		**4**	**1-3**	
ISK	VIII 22 22 58 41.4	38.24N	35.14E	10	3.0D			¶97viii3301
ISC	Poorly determined							
ISC	**VIII 23 09 20 22.1**±.96	**40.64N**±.068	**27.58E**±.072	**5**±9.5		**14**	**0-4**	
ISK	VIII 23 09 20 21.7	40.66N	27.54E	12	3.0D			¶97viii3376
ISC	**VIII 23 10 26 40.9**±.99	**39.11N**±.089	**27.6E**±.15	**10**		**6**	**1-2**	
ISK	VIII 23 10 26 40.0	39.14N	27.58E	10	2.7D			¶97viii3388
ISK	**VIII 23 12 54 24.8**	**39.39N**	**27.72E**	**10**	**2.7D**			¶97viii3405
ISK	**VIII 23 13 23 43.6**	**40.61N**	**27.46E**	**10**	**2.6D**			¶97viii3408
ISC	**VIII 23 15 03 36**±1.1	**39.19N**±.099	**27.8E**±.15	**8**		**5**	**1-1**	
ISK	VIII 23 15 03 36.1	39.22N	27.74E	8	2.7D			¶97viii3418
ISC	**VIII 23 19 26 29**±1.5	**39.41N**±.096	**27.6E**±.18	**1**±19		**5**	**1-2**	
ISK	VIII 23 19 26 29.0	39.39N	27.66E	5	2.8D			¶97viii3444
ISC	Poorly determined							
ISC	**VIII 23 23 00 56.7**±.58	**37.11N**±.053	**29.17E**±.065	**10**		**13**	**1-4**	
ISK	VIII 23 23 00 54.2	37.09N	29.11E	10	3.5D			¶97viii3459
ISC	**VIII 24 10 12 53**±1.5	**40.7N**±.12	**27.4E**±.15	**5**		**4**	**0-1**	
ISK	VIII 24 10 12 52.4	40.70N	27.41E	5	2.6D			¶97viii3515
ISC	Poorly determined							
ISK	**VIII 24 10 49 10.4**	**39.70N**	**29.39E**	**10**	**2.6D**			¶97viii3519
ISK	**VIII 24 12 21 49.3**	**38.91N**	**27.77E**	**10**	**2.7D**			¶97viii3528
ISC	**VIII 24 12 24 39**±1.1	**39.10N**±.094	**27.6E**±.17	**10**		**5**	**1-1**	
ISK	VIII 24 12 24 37.3	38.98N	27.66E	10	2.7D			¶97viii3529
ISC	**VIII 24 15 07 49**±7.3	**41.3N**±.59	**28.2E**±.19	**5**		**4**	**0-1**	
ISK	VIII 24 15 07 50.3	41.24N	28.32E	5	2.6D			¶97viii3552
ISC	Poorly determined							
ISK	**VIII 24 16 21 34.7**	**36.42N**	**35.75E**	**10**	**2.8D**			¶97viii3562
ISK	**VIII 25 07 37 42.2**	**39.21N**	**29.21E**	**6**	**2.7D**			¶97viii3671
ISK	**VIII 25 07 45 34.7**	**37.79N**	**27.61E**	**10**	**2.9D**			¶97viii3673
ISC	**VIII 25 08 11 06**±2.8	**39.1N**±.25	**27.6E**±.38	**7**±32		**5**	**1-2**	
ISK	VIII 25 08 11 05.8	39.18N	27.53E	10	2.8D			¶97viii3674
ISC	Poorly determined							
ISC	**VIII 25 08 13 50**±1.9	**39.1N**±.19	**27.6E**±.38	**10**		**4**	**1-2**	
ISK	VIII 25 08 13 48.7	39.03N	27.46E	10	2.7D			¶97viii3675
ISC	Poorly determined							
ISC	**VIII 25 09 12 15**±2.2	**39.2N**±.24	**27.7E**±.33	**12**±29		**5**	**1-2**	
ISK	VIII 25 09 12 15.0	39.21N	27.69E	10	2.7D			¶97viii3678
ISC	Poorly determined							
ISK	**VIII 25 11 33 59.6**	**38.96N**	**27.40E**	**10**	**2.7D**			¶97viii3685
ISC	**VIII 25 12 44 51**±1.3	**41.3N**±.10	**28.5E**±.16	**16**±21		**6**	**0-1**	
ISK	VIII 25 12 44 50.3	41.25N	28.46E	10	2.7D			¶97viii3687
ISK	**VIII 25 14 25 54.6**	**41.11N**	**30.02E**	**10**	**2.7D**			¶97viii3701
ISK	**VIII 25 16 22 41.9**	**41.25N**	**28.98E**	**10**	**2.7D**			¶97viii3712
ISC	**VIII 25 16 42 11**±1.7	**39.2N**±.12	**27.8E**±.28	**10**		**4**	**1-1**	
ISK	VIII 25 16 42 10.2	39.22N	27.74E	10	2.7D			¶97viii3714
ISC	Poorly determined							
ISC	**VIII 25 17 52 05**±1.0	**37.46N**±.097	**30.1E**±.10	**8**		**5**	**0-2**	
ISK	VIII 25 17 52 05.6	37.49N	30.11E	8	3.1D			¶97viii3719
ISC	**VIII 25 18 39 29**±1.0	**40.39N**±.082	**28.31E**±.094	**5**		**5**	**0-2**	
ISK	VIII 25 18 39 28.9	40.38N	28.28E	5	2.9D			¶97viii3724
ISC	**VIII 26 03 48 40**±1.7	**38.0N**±.19	**30.2E**±.17	**10**		**5**	**0-2**	
ISK	VIII 26 03 48 38.5	38.14N	30.31E	10	3.1D			¶97viii3780
ISK	**VIII 26 06 19 49.3**	**39.69N**	**29.52E**	**6**	**2.5D**			¶97viii3796
ISC	**VIII 26 06 35 13**±1.2	**40.1N**±.10	**27.5E**±.11	**15**		**5**	**0-1**	
ISK	VIII 26 06 35 12.4	40.05N	27.54E	15	2.5D			¶97viii3798
ISC	**VIII 26 07 45 45**±1.5	**39.1N**±.13	**27.5E**±.27	**10**		**4**	**1-1**	
ISK	VIII 26 07 45 43.8	39.16N	27.45E	10	2.7D			¶97viii3805
ISC	Poorly determined							
ISC	**VIII 26 08 21 41**±1.6	**39.1N**±.12	**27.4E**±.27	**5**		**4**	**1-1**	
ISK	VIII 26 08 21 40.7	39.18N	27.37E	5	2.7D			¶97viii3813
ISC	Poorly determined							
ISK	**VIII 26 08 25 43.1**	**40.14N**	**28.76E**	**10**	**2.6D**			¶97viii3815
ISC	**VIII 26 08 51 52**±1.5	**39.3N**±.11	**27.6E**±.23	**5**		**4**	**1-1**	
ISK	VIII 26 08 51 52.3	39.32N	27.54E	5	2.7D			¶97viii3820
ISC	Poorly determined							
ISK	**VIII 26 09 03 05.2**	**41.58N**	**28.22E**	**10**	**2.6D**			¶97viii3822
ISC	**VIII 26 09 58 46**±2.3	**39.1N**±.24	**27.6E**±.31	**5**±41		**5**	**1-1**	
ISK	VIII 26 09 58 45.6	39.09N	27.53E	10	2.7D			¶97viii3829
ISC	Poorly determined							
ISC	**VIII 26 12 01 04.2**±.99	**39.14N**±.091	**27.7E**±.14	**9**		**6**	**1-2**	
ISK	VIII 26 12 01 04.1	39.18N	27.62E	9	2.7D			¶97viii3842
ISC	**VIII 26 14 49 29**±1.1	**39.06N**±.095	**27.6E**±.17	**10**		**5**	**1-1**	
ISK	VIII 26 14 49 29.2	39.12N	27.56E	10	2.8D			¶97viii3866
ISK	**VIII 26 15 29 31.6**	**41.47N**	**28.17E**	**9**	**2.7D**			¶97viii3870
ISC	**VIII 26 17 58 50.1**±.55	**38.07N**±.046	**28.52E**±.068	**5**		**15**	**1-4**	
ISK	VIII 26 17 58 49.4	38.05N	28.51E	5	3.4D			¶97viii3884
ATH	VIII 26 17 58 55.5	38.03N	28.24E	34	3.6D			
ISK	**VIII 26 18 00 23.0**	**38.00N**	**28.53E**	**10**	**2.8D**			¶97viii3885

ISK	**VIII 26 23 27 24.5**	**40.86N**	**28.44E**	**10**	**2.6D**	¶97viii3917	
ISK	**VIII 27 02 57 56.4**	**36.08N**	**34.61E**	**10**	**3.3D**	¶97viii3930	
ISC	**VIII 27 07 41 31**±1.2	**39.1N**±.11	**27.8E**±.19	**10**		**5** 1-2	
ISK	VIII 27 07 41 31.2	39.06N	27.77E	10	2.7D	¶97viii3954	
ISK	**VIII 27 07 51 44.3**	**39.61N**	**29.48E**	**10**	**2.8D**	¶97viii3955	
ISC	**VIII 27 08 13 36**±2.3	**39.1N**±.24	**27.5E**±.30	**9**±40		**5** 1-1	
ISK	VIII 27 08 13 35.5	39.14N	27.49E	10	2.7D	¶97viii3957	
ISC	Poorly determined						
ISC	**VIII 27 09 02 24**±1.2	**39.1N**±.13	**27.6E**±.29	**10**		**5** 1-2	
ISK	VIII 27 09 02 22.8	39.12N	27.56E	10	2.7D	¶97viii3962	
ISK	**VIII 27 10 25 12.3**	**39.67N**	**29.44E**	**10**	**2.6D**	¶97viii3972	
ISC	**VIII 27 10 48 58**±1.1	**39.23N**±.093	**27.7E**±.14	**12**		**5** 1-1	
ISK	VIII 27 10 48 58.2	39.29N	27.64E	12	2.7D	¶97viii3978	
ISK	**VIII 27 13 30 19.9**	**39.32N**	**27.43E**	**10**	**2.7D**	¶97viii3989	
ISK	**VIII 27 15 19 44.7**	**41.33N**	**28.87E**	**10**	**2.6D**	¶97viii4007	
ISC	**VIII 27 15 39 25**±1.4	**39.1N**±.13	**27.5E**±.27	**5**		**4** 1-1	
ISK	VIII 27 15 39 25.3	39.14N	27.47E	5	2.7D	¶97viii4008	
ISC	Poorly determined						
ISC	**VIII 28 01 43 14.1**±.90	**39.1N**±.11	**40.9E**±.11	**9**		**9** 0-4	
ISK	VIII 28 01 43 13.0	39.21N	40.85E	9	3.5D	¶97viii4072	
ISC	**VIII 28 02 05 57.0**±.66	**39.53N**±.053	**27.96E**±.079	**5**		**14** 1-3	
ISK	VIII 28 02 05 56.8	39.52N	27.98E	5	2.9D	¶97viii4075	
ISK	**VIII 28 05 08 03.2**	**40.95N**	**29.42E**	**10**	**2.6D**	¶97viii4086	
ISK	**VIII 28 09 00 29.1**	**39.95N**	**28.81E**	**10**	**2.4D**	¶97viii4107	
ISC	**VIII 28 09 02 57**±1.3	**39.1N**±.11	**27.7E**±.17	**15**		**4** 1-1	
ISK	VIII 28 09 02 57.4	39.14N	27.67E	15	2.7D	¶97viii4108	
ISC	Poorly determined						
ISK	**VIII 28 10 02 09.7**	**40.98N**	**29.35E**	**10**	**2.6D**	¶97viii4113	
ISK	**VIII 28 10 37 23.4**	**39.64N**	**29.45E**	**10**	**2.6D**	¶97viii4116	
ISK	**VIII 28 11 59 29.5**	**39.17N**	**27.38E**	**5**	**2.6D**	¶97viii4125	
ISC	**VIII 28 12 34 50**±1.5	**40.4N**±.17	**30.84E**±.080	**1**±20		**7** 0-1	
ISK	VIII 28 12 34 49.9	40.48N	30.88E	10	2.9D	¶97viii4130	
ISC	**VIII 28 13 06 23**±2.3	**39.27N**±.095	**27.2E**±.28	**5**		**5** 1-2	
ISK	VIII 28 13 06 23.3	39.25N	27.24E	5	2.7D	¶97viii4137	
ISC	**VIII 28 13 51 12**±1.3	**39.1N**±.10	**27.6E**±.20	**10**		**4** 1-2	
ISK	VIII 28 13 51 10.2	39.14N	27.62E	10	2.8D	¶97viii4140	
ISC	Poorly determined						
ISC	**VIII 28 15 29 19**±1.5	**39.66N**±.072	**29.1E**±.10	**2**±12		**11** 0-2	
ISK	VIII 28 15 29 19.3	39.63N	29.04E	9	3.0D	¶97viii4150	
ISK	**VIII 28 15 57 40.6**	**39.36N**	**27.82E**	**10**	**2.7D**	¶97viii4153	
ISC	**VIII 28 16 20 03**±1.7	**39.1N**±.12	**27.7E**±.28	**10**		**4** 1-1	
ISK	VIII 28 16 20 02.1	39.11N	27.69E	10	2.7D	¶97viii4162	
ISC	Poorly determined						
ISK	**VIII 28 17 43 31.7**	**36.90N**	**30.30E**	**33**	**2.9D**	¶97viii4169	
ISC	**VIII 28 20 12 17**±1.2	**39.5N**±.12	**40.9E**±.11	**10**		**8** 0-4	
ISK	VIII 28 20 12 15.4	39.62N	40.99E	10	3.6D	¶97viii4180	
ISK	**VIII 29 00 01 24.3**	**38.40N**	**27.81E**	**5**	**3.1D**	¶97viii4204	
ISC	**VIII 29 01 08 10.0**±.70	**37.80N**±.069	**29.05E**±.070	**8**		**11** 1-4	
ISK	VIII 29 01 08 09.6	37.80N	29.05E	8	3.2D	¶97viii4213	
ISK	**VIII 29 01 48 15.5**	**40.62N**	**27.53E**	**10**	**2.8D**	¶97viii4216	
ISK	**VIII 29 02 12 32.9**	**40.63N**	**27.42E**	**6**	**2.6D**	¶97viii4219	
ISC	**VIII 29 06 58 03**±1.3	**39.1N**±.14	**27.6E**±.35	**10**		**4** 1-1	
ISK	VIII 29 06 58 01.5	38.93N	27.60E	10	2.7D	¶97viii4246	
ISC	Poorly determined						
ISC	**VIII 29 08 24 47**±1.7	**39.0N**±.27	**27.6E**±.33	**14**±38		**5** 1-1	
ISK	VIII 29 08 24 44.6	38.92N	27.64E	10	2.6D	¶97viii4252	
ISC	Poorly determined						
ISC	**VIII 29 08 56 46**±4.6	**39.8N**±.33	**29.3E**±.41	**11**±16		**5** 1-1	
ISK	VIII 29 08 56 42.8	39.62N	29.58E	14	2.7D	¶97viii4258	
ISC	Poorly determined						
ISC	**VIII 29 09 05 06**±1.2	**39.3N**±.11	**27.7E**±.15	**5**		**4** 1-1	
ISK	VIII 29 09 05 05.7	39.27N	27.71E	5	2.7D	¶97viii4261	
ISC	Poorly determined						
ISC	**VIII 29 09 19 02**±2.1	**39.1N**±.25	**27.6E**±.32	**10**±40		**5** 1-1	
ISK	VIII 29 09 19 01.9	39.14N	27.51E	10	2.7D	¶97viii4265	
ISC	Poorly determined						
ISK	**VIII 29 09 55 21.0**	**40.32N**	**29.45E**	**10**	**2.6D**	¶97viii4272	
ISK	**VIII 29 11 17 36.4**	**37.91N**	**30.56E**	**10**	**2.9D**	¶97viii4284	
ISC	**VIII 29 11 21 35**±1.2	**39.1N**±.10	**27.5E**±.15	**10**		**4** 1-1	
ISK	VIII 29 11 21 34.4	39.06N	27.45E	10	2.6D	¶97viii4285	
ISC	Poorly determined						
ISC	**VIII 29 11 43 56**±7.6	**39.8N**±.26	**27.7E**±.57	**10**		**4** 1-1	
ISK	VIII 29 11 43 53.8	39.77N	27.58E	10	2.6D	¶97viii4296	
ISC	Poorly determined						
ISC	**VIII 29 12 02 34**±1.1	**39.23N**±.097	**27.7E**±.17	**10**		**5** 1-2	
ISK	VIII 29 12 02 34.4	39.22N	27.71E	10	2.8D	¶97viii4300	
ISC	**VIII 29 12 29 36**±1.5	**39.91N**±.097	**28.9E**±.13	**10**		**4** 0-1	
ISK	VIII 29 12 29 36.3	39.91N	28.82E	10	2.5D	¶97viii4301	
ISC	Poorly determined						
ISK	**VIII 29 13 18 17.0**	**39.63N**	**29.49E**	**10**	**2.6D**	¶97viii4313	
ISC	**VIII 29 13 41 27**±1.1	**39.05N**±.097	**27.6E**±.17	**15**		**5** 1-1	
ISK	VIII 29 13 41 27.2	39.10N	27.61E	15	2.7D	¶97viii4317	
ISC	**VIII 29 13 53 49**±1.1	**39.10N**±.099	**27.7E**±.17	**10**		**5** 1-1	
ISK	VIII 29 13 53 45.8	38.92N	27.75E	10	2.7D	¶97viii4318	
ISC	**VIII 29 15 55 08.9**±.77	**40.41N**±.068	**28.66E**±.065	**5**		**8** 0-2	
ISK	VIII 29 15 55 08.6	40.42N	28.67E	5	2.8D	¶97viii4341	
ISK	**VIII 30 04 10 59.9**	**39.21N**	**27.10E**	**10**	**3.2D**	¶97viii4424	
ISC	**VIII 30 06 41 44**±1.3	**40.8N**±.10	**27.7E**±.12	**9**±20		**5** 0-1	
ISK	VIII 30 06 41 44.2	40.80N	27.76E	13	2.6D	¶97viii4447	
ISC	Poorly determined						
ISC	**VIII 30 08 26 03**±1.2	**40.79N**±.097	**27.7E**±.11	**14**±13		**6** 0-1	
ISK	VIII 30 08 26 02.8	40.80N	27.69E	10	2.7D	¶97viii4456	
ISK	**VIII 30 08 51 00.2**	**40.45N**	**29.39E**	**10**	**2.5D**	¶97viii4461	
ISC	**VIII 30 08 53 09**±1.7	**39.0N**±.27	**27.6E**±.33	**14**±38		**5** 1-1	
ISK	VIII 30 08 53 08.9	39.11N	27.57E	15	2.7D	¶97viii4464	
ISC	Poorly determined						
ISC	**VIII 30 09 02 35**±1.1	**39.10N**±.090	**27.6E**±.16	**10**		**5** 1-1	
ISK	VIII 30 09 02 33.7	39.14N	27.49E	10	2.7D	¶97viii4465	
ISC	**VIII 30 09 11 04.8**±.73	**40.86N**±.037	**27.75E**±.042	**5**±6.7		**33** 0-5	
ISK	VIII 30 09 11 04.6	40.87N	27.75E	12	3.4D	¶97viii4466	
ISK	**VIII 30 09 17 24.0**	**39.67N**	**29.54E**	**10**	**2.5D**	¶97viii4467	
ISC	**VIII 30 10 05 37**±1.4	**40.7N**±.11	**27.6E**±.16	**29**±16		**6** 0-1	
ISK	VIII 30 10 05 36.4	40.75N	27.72E	10	2.7D	¶97viii4468	
ISC	**VIII 30 12 14 05**±1.6	**39.2N**±.12	**27.4E**±.26	**5**		**4** 1-1	
ISK	VIII 30 12 14 05.5	39.20N	27.43E	5	2.8D	¶97viii4478	
ISC	Poorly determined						
ISC	**VIII 30 13 34 25**±1.3	**40.1N**±.11	**28.7E**±.10	**10**		**4** 0-1	
ISK	VIII 30 13 34 24.6	40.15N	28.75E	10	2.4D	¶97viii4490	
ISC	Poorly determined						
ISK	**VIII 30 13 53 57.9**	**40.59N**	**29.35E**	**10**	**2.6D**	¶97viii4493	
ISC	**VIII 30 14 44 46**±1.7	**37.7N**±.10	**27.6E**±.14	**10**		**6** 1-3	
ISK	VIII 30 14 44 44.6	37.60N	27.55E	10	3.1D	¶97viii4501	
ISK	**VIII 31 03 26 33.1**	**39.71N**	**41.74E**	**10**	**3.3D**	¶97viii4579	
ISC	**VIII 31 06 28 10**±2.7	**39.9N**±.15	**29.4E**±.14	**4**±25		**5** 0-2	
ISK	VIII 31 06 28 10.0	39.86N	29.46E	8	2.7D	¶97viii4598	
ISC	Poorly determined						
ISC	**VIII 31 08 08 51**±1.5	**39.1N**±.12	**27.5E**±.27	**10**		**4** 1-1	
ISK	VIII 31 08 08 50.2	39.17N	27.43E	10	2.7D	¶97viii4616	
ISC	Poorly determined						
ISC	**VIII 31 08 22 56**±1.2	**38.9N**±.16	**27.7E**±.28	**5**		**5** 1-2	
ISK	VIII 31 08 22 55.3	38.91N	27.62E	5	2.7D	¶97viii4621	
ISC	**VIII 31 09 16 50**±2.0	**38.8N**±.25	**27.8E**±.40	**10**		**4** 1-2	
ISK	VIII 31 09 16 49.4	38.90N	27.57E	10	2.7D	¶97viii4628	
ISC	Poorly determined						
ISC	**VIII 31 09 27 41**±1.3	**39.10N**±.093	**27.4E**±.23	**7**		**4** 1-1	
ISK	VIII 31 09 27 40.7	39.14N	27.47E	7	2.8D	¶97viii4630	
ISC	Poorly determined						
ISC	**VIII 31 09 36 27**±1.5	**39.2N**±.12	**27.5E**±.26	**10**		**4** 1-1	
ISK	VIII 31 09 36 25.7	39.21N	27.43E	10	2.7D	¶97viii4632	
ISC	Poorly determined						
ISC	**VIII 31 10 12 09**±1.3	**39.1N**±.14	**27.6E**±.34	**10**		**4** 1-1	
ISK	VIII 31 10 12 08.0	39.05N	27.63E	10	2.7D	¶97viii4636	
ISC	Poorly determined						
ISC	**VIII 31 11 42 27**±5.8	**40.5N**±.14	**29.9E**±.56	**8**		**4** 0-1	
ISK	VIII 31 11 42 25.1	40.40N	30.11E	8	2.6D	¶97viii4646	
ISC	Poorly determined						
ISK	**VIII 31 11 54 52.0**	**41.01N**	**29.41E**	**13**	**2.6D**	¶97viii4648	
ISC	**VIII 31 14 22 01**±1.1	**39.1N**±.10	**27.8E**±.15	**14**		**6** 1-2	
ISK	VIII 31 14 22 01.2	39.11N	27.74E	14	2.8D	¶97viii4666	
ISC	**VIII 31 15 15 18**±1.0	**37.80N**±.093	**29.1E**±.11	**10**		**5** 1-2	
ISK	VIII 31 15 15 17.4	37.80N	29.08E	10	3.0D	¶97viii4672	
ISK	**IX 01 00 30 50.2**	**40.62N**	**27.59E**	**10**	**2.6D**	¶97ix0008	
ISK	**IX 01 02 49 56.7**	**40.65N**	**27.70E**	**10**	**2.6D**	¶97ix0028	
ISK	**IX 01 07 04 29.9**	**40.39N**	**28.88E**	**5**	**2.4D**	¶97ix0066	
ISK	**IX 01 08 25 28.4**	**36.76N**	**30.43E**	**9**	**3.1D**	¶97ix0073	
ISK	**IX 01 09 25 44.6**	**39.36N**	**27.66E**	**15**	**2.8D**	¶97ix0083	
ISK	**IX 01 09 30 33.0**	**38.09N**	**30.88E**	**10**	**2.9D**	¶97ix0087	
ISK	**IX 01 12 45 25.2**	**39.69N**	**29.41E**	**10**	**2.5D**	¶97ix0105	
ISK	**IX 01 14 07 03.0**	**39.08N**	**27.05E**	**10**	**2.7D**	¶97ix0111	
ISK	**IX 01 16 31 48.0**	**40.87N**	**27.65E**	**10**	**2.7D**	¶97ix0138	
ISC	**IX 01 17 12 03.6**±.93	**39.3N**±.12	**32.2E**±.15	**33**		**10** 1-3	
						¶97ix0145	
ISC	**IX 01 20 44 48**±1.1	**40.72N**±.076	**35.42E**±.062	**1**±11		**13** 0-3	
ISK	IX 01 20 44 47.7	40.74N	35.39E	11	3.3D	¶97ix0161	
ISK	**IX 02 05 44 31.1**	**39.45N**	**28.28E**	**15**	**2.7D**	¶97ix0226	
ISK	**IX 02 06 45 36.8**	**39.78N**	**29.34E**	**10**	**2.4D**	¶97ix0231	
ISC	**IX 02 07 47 59**±1.1	**39.6N**±.11	**26.1E**±.10	**21**±17		**9** 0-2	
ISK	IX 02 07 47 58.5	39.57N	26.07E	10	3.1D	¶97ix0237	
THE	IX 02 07 48 01.8	39.8N	26.0E	10	3.0L		
ISK	**IX 02 08 05 03.8**	**39.25N**	**27.12E**	**10**	**2.7D**	¶97ix0240	
ISK	**IX 02 08 06 37.2**	**39.63N**	**29.42E**	**5**	**2.6D**	¶97ix0242	
ISK	**IX 02 08 07 30.7**	**39.20N**	**27.39E**	**10**	**2.7D**	¶97ix0243	
ISC	**IX 02 09 00 02**±3.1	**39.1N**±.21	**27.4E**±.56	**5**		**4** 1-2	
ISK	IX 02 09 00 01.3	39.23N	27.22E	5	2.7D	¶97ix0247	
ISC	Poorly determined						
ISK	**IX 02 09 03 36.5**	**39.74N**	**29.33E**	**10**	**2.5D**	¶97ix0248	
ISK	**IX 02 09 16 53.5**	**39.02N**	**27.52E**	**10**	**2.7D**	¶97ix0249	
ISC	**IX 02 10 54 20**±1.0	**39.16N**±.085	**27.5E**±.18	**10**		**6** 1-14	
ISK	IX 02 10 54 19.0	39.21N	27.41E	10	2.7D	¶97ix0264	
ISK	**IX 02 12 07 12.7**	**39.15N**	**27.40E**	**5**	**2.7D**	¶97ix0273	
ISK	**IX 02 14 52 27.4**	**38.62N**	**27.70E**	**10**	**2.7D**	¶97ix0287	
ISC	**IX 02 15 11 01**±4.9	**39.2N**±.44	**27.8E**±.14	**10**		**5** 1-2	
ISK	IX 02 15 11 01.1	39.18N	27.76E	10	2.8D	¶97ix0291	
ISC	**IX 02 15 41 22**±1.0	**37.07N**±.070	**36.2E**±.15	**10**		**6** 1-2	
ISK	IX 02 15 41 20.7	37.14N	36.13E	10	3.4D	¶97ix0296	
ISC	**IX 02 20 21 39**±1.6	**36.3N**±.19	**31.0E**±.17	**10**		**6** 1-2	
ISK	IX 02 20 21 40.5	36.27N	30.96E	10	3.6D	¶97ix0321	
ISK	**IX 02 20 28 20**±1.5	**36.1N**±.17	**30.9E**±.16	**10**		**7** 1-2	
ISK	IX 02 20 28 20.1	36.10N	30.85E	10	3.5D	¶97ix0324	
ISK	**IX 02 22 12 36.2**	**40.46N**	**35.76E**	**10**	**2.8D**	¶97ix0337	
ISC	**IX 03 01 31 54.4**±.83	**40.4N**±.12	**29.6E**±.10	**23**±12		**8** 0-2	
ISK	IX 03 01 31 53.3	40.36N	29.60E	10	2.8D	¶97ix0363	
ISK	**IX 03 07 03 40.3**	**39.14N**	**27.56E**	**10**	**2.6D**	¶97ix0393	
ISK	**IX 03 08 01 11.3**	**39.59N**	**29.44E**	**5**	**2.5D**	¶97ix0397	
ISC	**IX 03 08 11 19**±2.2	**40.0N**±.12	**28.0E**±.18	**5**		**4** 0-1	
ISK	IX 03 08 11 18.2	40.01N	28.03E	5	2.5D	¶97ix0399	
ISC	Poorly determined						
ISC	**IX 03 08 41 29.1**±.57	**36.85N**±.048	**35.28E**±.094	**10**		**15** 1-7	
ISK	IX 03 08 41 29.7	36.86N	35.12E	10	3.8D	¶97ix0401	
ISK	**IX 03 08 51 42.2**	**39.62N**	**29.48E**	**10**	**2.6D**	¶97ix0404	
ISC	**IX 03 09 02 09**±1.5	**39.1N**±.12	**27.5E**±.26	**10**		**4** 1-1	
ISK	IX 03 09 02 08.3	39.18N	27.43E	10	2.7D	¶97ix0405	
ISC	Poorly determined						
ISC	**IX 03 09 28 42**±1.6	**39.2N**±.12	**27.5E**±.25	**5**		**4** 1-1	
ISK	IX 03 09 28 42.1	39.22N	27.46E	5	2.7D	¶97ix0411	
ISC	Poorly determined						
ISK	**IX 03 09 36 04.4**	**39.66N**	**29.47E**	**10**	**2.5D**	¶97ix0412	
ISC	**IX 03 11 44 40**±2.5	**39.2N**±.24	**27.7E**±.33	**6**±32		**5** 1-2	
ISK	IX 03 11 44 40.7	39.23N	27.68E	10	2.8D	¶97ix0423	
ISC	Poorly determined						
ISC	**IX 04 09 11 10**±2.1	**39.2N**±.30	**27.7E**±.35	**13**±45		**5** 1-1	
ISK	IX 04 09 11 10.1	39.28N	27.66E	13	2.7D	¶97ix0571	
ISC	Poorly determined						
ISC	**IX 04 23 15 12**±1.9	**39.4N**±.14	**27.5E**±.42	**10**		**4** 1-2	
ISK	IX 04 23 15 11.6	39.38N	27.65E	10	2.8D	¶97ix0649	
ISC	Poorly determined						
ISC	**IX 05 00 50 49.6**±.83	**39.24N**±.080	**28.7E**±.11	**8**		**8** 1-3	
ISK	IX 05 00 50 48.0	39.21N	28.81E	8	2.9D	¶97ix0659	
ISC	**IX 05 02 52 57.0**±.73	**36.11N**±.091	**31.07E**±.095	**74**±10	**3.5b**	**20** 1-34	
EIDC	IX 05 02 52 32.3	34.2N	32.9E	0	3.6b	¶97ix0673	
ISK	IX 05 02 52 53.2	36.07N	31.09E	33	3.7D		
ISK	**IX 05 05 13 29.9**	**39.66N**	**29.42E**	**10**	**2.5D**	¶97ix0700	
ISC	**IX 05 07 10 10**±3.0	**39.3N**±.28	**27.6E**±.31	**7**±49		**5** 1-1	
ISK	IX 05 07 10 10.6	39.32N	27.60E	14	2.8D	¶97ix0708	
ISC	Poorly determined						
ISK	**IX 05 08 05 50.2**	**39.66N**	**29.44E**	**10**	**2.6D**	¶97ix0716	
ISC	**IX 05 09 13 21**±1.5	**39.1N**±.12	**27.5E**±.27	**10**		**4** 1-1	
ISK	IX 05 09 13 19.8	39.19N	27.41E	10	2.7D	¶97ix0725	
ISC	Poorly determined						
ISK	**IX 05 09 52 10.8**	**39.18N**	**27.57E**	**10**	**2.7D**	¶97ix0729	

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**IX 05 11 03 36**±1.3	**39.3N**±.12	**27.7E**±.23	**5**		**4**	**1-1**
ISK	IX 05 11 03 36.9	39.25N	27.76E	5	2.7D		¶97ix0739
ISC	Poorly determined						
ISC	**IX 05 12 32 12**±2.8	**41.4N**±.25	**27.9E**±.13	**30**±18		**7**	**0-2**
ISK	IX 05 12 32 10.9	41.48N	27.87E	10	2.7D		¶97ix0746
ISC	**IX 05 15 26 06**±2.8	**39.3N**±.13	**27.7E**±.25	**25**±40		**5**	**1-1**
ISK	IX 05 15 26 05.1	39.33N	27.64E	13	2.7D		¶97ix0760
ISC	Poorly determined						
ISC	**IX 06 07 40 53**±2.2	**39.2N**±.17	**27.5E**±.28	**13**±20		**7**	**1-2**
ISK	IX 06 07 40 53.0	39.13N	27.67E	10	2.8D		¶97ix0880
ISC	**IX 06 08 54 28**±1.6	**39.0N**±.19	**27.9E**±.37	**10**		**4**	**1-1**
ISK	IX 06 08 54 27.7	39.06N	27.71E	10	2.7D		¶97ix0890
ISC	Poorly determined						
ISC	**IX 06 08 58 12**±1.8	**39.2N**±.11	**27.4E**±.33	**5**		**5**	**1-2**
ISK	IX 06 08 58 11.7	39.22N	27.37E	5	2.7D		¶97ix0893
ISK	**IX 06 09 12 35.8**	**39.64N**	**29.50E**	**5**	**2.5D**		¶97ix0895
ISK	**IX 06 09 14 18.5**	**39.66N**	**29.49E**	**10**	**2.6D**		¶97ix0896
ISK	**IX 06 10 44 40.4**	**39.14N**	**27.38E**	**5**	**2.7D**		¶97ix0903
ISK	**IX 06 12 14 12.3**	**39.35N**	**27.44E**	**10**	**2.7D**		¶97ix0912
ISK	**IX 06 13 44 13.9**	**39.22N**	**27.39E**	**10**	**2.7D**		¶97ix0923
ISK	**IX 06 14 02 06.4**	**36.63N**	**30.60E**	**33**	**3.1D**		¶97ix0929
ISC	**IX 06 16 41 40.3**±.88	**39.93N**±.055	**28.45E**±.080	**4**±9.3		**12**	**0-2**
ISK	IX 06 16 41 39.9	39.91N	28.39E	8	3.0D		¶97ix0946
ISK	**IX 07 00 28 21.0**	**36.76N**	**30.40E**	**33**	**3.1D**		¶97ix0998
ISK	**IX 07 04 28 19.4**	**40.81N**	**27.64E**	**5**	**2.6D**		¶97ix1010
ISK	**IX 07 04 36 29.8**	**40.79N**	**27.68E**	**6**	**2.7D**		¶97ix1011
ISK	**IX 07 04 46 00.2**	**40.77N**	**27.53E**	**5**	**2.6D**		¶97ix1012
ISC	**IX 07 08 44 05**±1.3	**39.1N**±.15	**27.7E**±.35	**10**		**4**	**1-1**
ISK	IX 07 08 44 04.1	39.17N	27.44E	10	2.7D		¶97ix1032
ISC	Poorly determined						
ISK	**IX 07 09 06 09.1**	**39.19N**	**27.38E**	**7**	**2.7D**		¶97ix1037
ISC	**IX 07 09 07 14.7**±.47	**40.76N**±.051	**27.46E**±.046	**7**		**27**	**0-4**
ISK	IX 07 09 07 13.2	40.79N	27.38E	7	3.3D		¶97ix1038
ISK	**IX 07 09 19 09.1**	**39.19N**	**27.36E**	**5**	**2.7D**		¶97ix1039
ISC	**IX 07 09 29 44**±1.1	**39.1N**±.10	**27.6E**±.15	**10**		**5**	**1-2**
ISK	IX 07 09 29 42.8	39.00N	27.64E	10	2.7D		¶97ix1040
ISK	**IX 07 10 00 30.7**	**39.26N**	**27.34E**	**10**	**2.6D**		¶97ix1044
ISC	**IX 07 11 02 06.6**±.93	**39.55N**±.084	**30.45E**±.089	**5**		**10**	**1-2**
ISK	IX 07 11 02 02.9	39.34N	30.60E	5	2.7D		¶97ix1053
ISC	**IX 07 12 22 48**±1.4	**39.1N**±.13	**27.6E**±.27	**10**		**4**	**1-1**
ISK	IX 07 12 22 47.3	39.16N	27.48E	10	2.7D		¶97ix1064
ISC	Poorly determined						
ISK	**IX 07 13 22 27.0**	**39.75N**	**29.54E**	**10**	**2.5D**		¶97ix1070
ISC	**IX 07 14 09 11**±3.1	**40.5N**±.22	**28.0E**±.16	**10**		**4**	**0-1**
ISK	IX 07 14 09 10.4	40.51N	27.96E	10	2.6D		¶97ix1079
ISC	Poorly determined						
ISC	**IX 08 07 19 15.9**±.78	**39.13N**±.072	**27.6E**±.13	**5**		**8**	**1-2**
ISK	IX 08 07 19 14.7	39.25N	27.32E	5	2.7D		¶97ix1189
ISC	**IX 08 07 39 09**±6.2	**39.6N**±.32	**29.3E**±.37	**5**		**4**	**1-1**
ISK	IX 08 07 39 07.7	39.57N	29.44E	5	2.5D		¶97ix1191
ISC	Poorly determined						
ISC	**IX 08 13 59 07.3**±.80	**39.15N**±.072	**27.6E**±.12	**0**		**9**	**1-2**
							¶97ix1229
ISC	**IX 09 06 51 13**±1.1	**39.12N**±.091	**27.6E**±.14	**0**		**5**	**1-1**
							¶97ix1336
ISC	**IX 09 08 55 26.0**±.77	**39.15N**±.069	**27.5E**±.13	**5**		**9**	**1-2**
ISK	IX 09 08 55 24.7	39.23N	27.33E	5	2.7D		¶97ix1345
ISC	**IX 09 12 20 45**±2.5	**39.2N**±.17	**27.4E**±.35	**10**		**4**	**1-2**
ISK	IX 09 12 20 44.2	39.26N	27.42E	10	2.7D		¶97ix1374
ISC	Poorly determined						
ISC	**IX 09 16 24 46.7**±.87	**39.26N**±.081	**27.6E**±.15	**33**		**7**	**1-2**
							¶97ix1408
ISK	**IX 10 08 57 08.5**	**41.19N**	**35.75E**	**5**	**3.1D**		¶97ix1503
ISK	**IX 10 12 55 17.8**	**40.21N**	**29.40E**	**10**	**2.5D**		¶97ix1524
ISC	**IX 11 09 12 58.6**±.88	**39.06N**±.083	**27.6E**±.13	**10**		**7**	**1-2**
ISK	IX 11 09 12 56.8	39.20N	27.43E	10	2.7D		¶97ix1655
ISC	**IX 11 10 03 15**±1.3	**40.8N**±.29	**29.91E**±.080	**10**±18		**9**	**0-2**
ISK	IX 11 10 03 13.9	40.84N	29.96E	13	2.8D		¶97ix1664
ISC	**IX 11 10 48 31.1**±.88	**38.29N**±.076	**28.1E**±.10	**10**		**10**	**1-3**
ISK	IX 11 10 48 31.4	38.33N	27.94E	10	3.0D		¶97ix1666
ISC	**IX 11 12 05 22**±1.2	**39.2N**±.11	**27.8E**±.17	**33**		**5**	**1-1**
							¶97ix1671
ISC	**IX 11 13 16 11**±1.8	**40.01N**±.092	**29.94E**±.071	**3**±15		**12**	**0-2**
ISK	IX 11 13 16 11.3	40.11N	30.00E	10	2.8D		¶97ix1680
ISC	**IX 11 15 48 24.3**±.66	**40.7N**±.11	**29.90E**±.060	**9**		**12**	**0-2**
ISK	IX 11 15 48 23.4	40.72N	29.91E	9	2.8D		¶97ix1696
ISC	**IX 11 15 59 57**±1.2	**38.5N**±.15	**39.2E**±.11	**5**		**5**	**1-3**
ISK	IX 11 15 59 57.2	38.48N	39.23E	5	3.4D		¶97ix1697
ISC	Poorly determined						
ISC	**IX 13 07 25 29**±1.9	**37.77N**±.068	**29.40E**±.084	**23**±23		**15**	**1-3**
ISK	IX 13 07 25 26.5	37.79N	29.32E	10	3.2D		¶97ix1948
ISK	**IX 13 09 05 52.7**	**39.26N**	**27.31E**	**5**	**2.7D**		¶97ix1957
ISK	**IX 14 08 17 56.7**	**39.25N**	**27.45E**	**5**	**2.6D**		¶97ix2093
ISK	**IX 15 08 05 21.8**	**39.65N**	**29.44E**	**10**	**2.5D**		¶97ix2214
ISC	**IX 15 11 00 57**±1.1	**39.3N**±.10	**27.5E**±.18	**33**		**7**	**1-2**
							¶97ix2233
ISK	**IX 15 13 11 43.4**	**39.65N**	**29.41E**	**10**	**2.6D**		¶97ix2248
ISC	**IX 15 20 11 53.1**±.55	**38.86N**±.058	**32.48E**±.065	**10**		**18**	**2-4**
ISK	IX 15 20 11 51.0	38.85N	32.42E	10	3.6D		¶97ix2278
ISC	**IX 17 05 10 53**±1.6	**40.2N**±.17	**32.51E**±.066	**0**		**10**	**1-3**
							¶97ix2470
ISC	**IX 17 08 10 56**±1.7	**39.2N**±.11	**27.4E**±.26	**5**		**4**	**1-1**
ISK	IX 17 08 10 55.8	39.23N	27.36E	5	2.6D		¶97ix2486
ISC	Poorly determined						
ISC	**IX 17 13 17 28**±1.3	**40.47N**±.092	**30.00E**±.065	**9**±12		**11**	**0-2**
ISK	IX 17 13 17 27.8	40.43N	30.01E	13	2.7D		¶97ix2512
ISC	**IX 17 13 58 48.1**±.80	**39.75N**±.064	**27.97E**±.070	**0**		**9**	**1-3**
							¶97ix2516
ISC	**IX 17 14 43 36.1**±.90	**40.24N**±.072	**28.77E**±.074	**5**		**7**	**0-2**
ISK	IX 17 14 43 36.1	40.23N	28.80E	5	2.7D		¶97ix2521
ISK	**IX 18 06 27 57.4**	**39.69N**	**29.50E**	**10**	**2.5D**		¶97ix2622
ISK	**IX 18 09 28 16.4**	**40.29N**	**29.02E**	**10**	**2.5D**		¶97ix2640
ISK	**IX 18 09 39 47.9**	**39.19N**	**27.37E**	**10**	**2.6D**		¶97ix2641
ISK	**IX 18 15 14 33.2**	**40.62N**	**29.14E**	**10**	**2.5D**		¶97ix2679
ISC	**IX 19 09 12 50**±1.4	**39.22N**±.081	**27.3E**±.24	**10**		**7**	**1-2**
ISK	IX 19 09 12 48.8	39.26N	27.30E	10	2.7D		¶97ix2768
ISC	**IX 19 09 20 43**±2.5	**39.2N**±.22	**27.5E**±.51	**5**		**4**	**1-2**
ISK	IX 19 09 20 43.3	39.18N	27.51E	5	2.6D		¶97ix2770
ISC	Poorly determined						
ISC	**IX 19 13 36 29**±1.7	**40.0N**±.10	**29.0E**±.15	**11**±19		**5**	**0-1**
ISK	IX 19 13 36 28.9	39.92N	28.98E	10	2.6D		¶97ix2795
ISC	Poorly determined						
ISC	**IX 20 20 32 39**±1.4	**40.80N**±.098	**31.23E**±.061	**9**±10		**16**	**0-3**
ISK	IX 20 20 32 36.7	40.82N	31.24E	10	3.1D		¶97ix3004
ISC	**IX 20 23 42 19.5**±.60	**38.85N**±.071	**40.17E**±.052	**7**		**19**	**0-16**
ISK	IX 20 23 42 17.5	39.10N	40.22E	7	3.8D		¶97ix3017
ISC	**IX 21 01 42 09.3**±.89	**40.44N**±.075	**28.47E**±.088	**6**±13		**8**	**0-2**
ISK	IX 21 01 42 09.2	40.44N	28.44E	5	2.9D		¶97ix3028
ISC	**IX 21 01 42 55**±2.1	**40.4N**±.14	**28.5E**±.21	**10**		**5**	**0-2**
ISK	IX 21 01 42 54.5	40.39N	28.45E	10	3.0D		¶97ix3029
ISC	**IX 21 07 52 40**±1.3	**39.1N**±.12	**27.8E**±.18	**10**		**4**	**1-1**
ISK	IX 21 07 52 40.1	39.09N	27.76E	10	2.6D		¶97ix3064
ISC	Poorly determined						
ISC	**IX 21 13 01 57.5**±.31	**40.37N**±.037	**27.09E**±.033	**10**		**41**	**1-4**
ISK	IX 21 13 01 57.8	40.41N	27.23E	10	3.3D		¶97ix3103
ATH	IX 21 13 01 58.0	39.83N	24.67E	10	3.3D		
THE	IX 21 13 01 59.3	40.4N	27.0E	9	3.4L		
ISC	**IX 21 17 49 52.9**±.85	**38.66N**±.086	**27.4E**±.17	**33**		**7**	**0-2**
							¶97ix3140
ISC	**IX 22 09 15 11**±1.1	**39.12N**±.098	**27.7E**±.17	**10**		**5**	**1-1**
ISK	IX 22 09 15 12.0	39.10N	27.71E	10	2.7D		¶97ix3253
ISC	**IX 22 11 20 59**±1.3	**39.2N**±.14	**27.8E**±.16	**10**		**4**	**1-1**
ISK	IX 22 11 20 58.5	39.27N	27.74E	10	2.7D		¶97ix3270
ISC	Poorly determined						
ISC	**IX 22 12 27 56.0**±.90	**40.59N**±.055	**29.17E**±.076	**3**±11		**11**	**0-3**
ISK	IX 22 12 27 55.5	40.60N	29.19E	10	2.8D		¶97ix3277
ISK	**IX 22 14 06 43.7**	**41.15N**	**28.61E**	**5**	**2.8D**		¶97ix3290
ISK	**IX 22 16 23 12.3**	**37.11N**	**30.99E**	**10**	**3.1D**		¶97ix3302
ISK	**IX 22 19 42 00.0**	**40.56N**	**29.33E**	**5**	**2.6D**		¶97ix3321
ISK	**IX 23 08 02 45.9**	**39.63N**	**29.52E**	**10**	**2.6D**		¶97ix3394
ISC	**IX 23 08 19 04**±1.4	**39.1N**±.10	**27.6E**±.25	**10**		**4**	**1-1**
ISK	IX 23 08 19 03.2	39.14N	27.55E	10	2.7D		¶97ix3398
ISC	Poorly determined						
ISK	**IX 23 08 43 29.1**	**39.62N**	**29.51E**	**5**	**2.5D**		¶97ix3405
ISC	**IX 23 09 09 25**±1.3	**39.1N**±.16	**27.8E**±.33	**9**		**4**	**1-1**
ISK	IX 23 09 09 24.9	39.16N	27.65E	9	2.7D		¶97ix3406
ISC	Poorly determined						
ISC	**IX 23 10 11 05**±4.5	**39.7N**±.28	**28.3E**±.33	**10**		**4**	**0-1**
ISK	IX 23 10 11 01.8	39.51N	28.17E	10	2.5D		¶97ix3408
ISC	Poorly determined						
ISC	**IX 23 11 58 57**±2.8	**37.8N**±.17	**27.4E**±.29	**7**		**7**	**1-3**
ISK	IX 23 11 58 57.6	37.85N	27.42E	7	2.9D		¶97ix3413
ISC	**IX 23 12 11 47**±3.0	**37.7N**±.16	**27.3E**±.28	**5**		**10**	**1-4**
ISK	IX 23 12 11 47.9	37.86N	27.44E	5	3.1D		¶97ix3415
ISK	**IX 23 14 50 24.3**	**39.66N**	**29.47E**	**10**	**2.5D**		¶97ix3436
ISC	**IX 23 16 28 58**±1.7	**40.7N**±.16	**29.9E**±.15	**13**±18		**5**	**0-2**
ISK	IX 23 16 28 57.6	40.79N	30.00E	14	2.5D		¶97ix3452
ISC	Poorly determined						
ISC	**IX 23 17 34 13**±3.5	**37.7N**±.20	**27.4E**±.34	**5**		**4**	**1-2**
ISK	IX 23 17 34 13.7	37.79N	27.59E	5	3.0D		¶97ix3459
ISC	Poorly determined						
ISC	**IX 23 22 17 52**±1.1	**39.31N**±.074	**29.0E**±.15	**5**		**6**	**1-2**
ISK	IX 23 22 17 51.4	39.29N	29.10E	5	2.7D		¶97ix3487
ISK	**IX 23 22 19 32.1**	**39.30N**	**29.14E**	**6**	**2.6D**		¶97ix3488
ISK	**IX 24 05 40 22.6**	**39.57N**	**29.59E**	**6**	**2.6D**		¶97ix3529
ISC	**IX 24 07 50 38**±1.1	**39.08N**±.094	**27.6E**±.15	**10**		**5**	**1-1**
ISK	IX 24 07 50 38.6	39.08N	27.63E	10	2.6D		¶97ix3544
ISK	**IX 24 08 18 27.0**	**39.59N**	**29.52E**	**6**	**2.6D**		¶97ix3549
ISK	**IX 24 08 27 17.0**	**38.96N**	**27.70E**	**10**	**2.7D**		¶97ix3550
ISC	**IX 24 08 53 25**±1.5	**39.1N**±.11	**27.6E**±.25	**8**		**4**	**1-1**
ISK	IX 24 08 53 24.9	39.13N	27.62E	8	2.8D		¶97ix3552
ISC	Poorly determined						
ISC	**IX 24 08 56 36**±1.6	**39.2N**±.11	**27.8E**±.26	**10**		**4**	**1-1**
ISK	IX 24 08 56 36.6	39.25N	27.79E	10	2.7D		¶97ix3553
ISC	Poorly determined						
ISC	**IX 24 09 10 09**±1.1	**39.10N**±.096	**27.7E**±.16	**10**		**6**	**1-2**
ISK	IX 24 09 10 10.2	39.09N	27.73E	10	2.7D		¶97ix3555
ISK	**IX 24 09 38 47.1**	**39.93N**	**28.84E**	**10**	**2.5D**		¶97ix3563
ISK	**IX 24 11 55 28.0**	**39.08N**	**27.68E**	**10**	**2.7D**		¶97ix3575
ISK	**IX 24 13 52 12.7**	**40.53N**	**36.54E**	**10**	**3.0D**		¶97ix3586
ISC	**IX 24 14 49 16.8**±.97	**39.10N**±.088	**27.6E**±.14	**11**		**7**	**1-2**
ISK	IX 24 14 49 16.5	39.13N	27.56E	11	2.7D		¶97ix3593
ISK	**IX 24 15 25 43.3**	**39.63N**	**29.45E**	**5**	**2.6D**		¶97ix3597
ISK	**IX 24 18 48 05.7**	**40.79N**	**27.47E**	**6**	**2.7D**		¶97ix3617
ISK	**IX 24 18 48 29.8**	**41.18N**	**34.47E**	**10**	**3.2D**		¶97ix3618
ISC	**IX 24 20 47 42**±1.1	**37.8N**±.10	**29.1E**±.10	**8**		**5**	**1-1**
ISK	IX 24 20 47 41.1	37.81N	29.06E	8	2.9D		¶97ix3631
ISC	**IX 24 21 35 06**±1.0	**37.9N**±.10	**29.06E**±.096	**5**		**7**	**1-2**
ISK	IX 24 21 35 05.1	37.87N	29.00E	5	3.1D		¶97ix3638
ISK	**IX 25 04 59 37.6**	**39.70N**	**29.42E**	**10**	**2.6D**		¶97ix3678
ISC	**IX 25 07 05 41.6**±.74	**40.43N**±.053	**29.17E**±.075	**8**±8.9		**10**	**0-2**
ISK	IX 25 07 05 41.6	40.42N	29.17E	6	2.9D		¶97ix3698
ISC	**IX 25 09 02 42**±1.1	**39.11N**±.096	**27.7E**±.17	**10**		**5**	**1-1**
ISK	IX 25 09 02 41.5	39.01N	27.69E	10	2.6D		¶97ix3713
ISC	**IX 25 09 40 19**±1.3	**39.74N**±.095	**28.6E**±.21	**5**		**4**	**0-1**
ISK	IX 25 09 40 19.2	39.71N	28.57E	5	2.4D		¶97ix3716
ISC	Poorly determined						
ISC	**IX 25 10 48 27**±1.1	**39.82N**±.073	**28.7E**±.10	**5**		**6**	**0-2**
ISK	IX 25 10 48 27.1	39.83N	28.73E	5	2.7D		¶97ix3726
ISC	**IX 25 11 48 06**±2.1	**40.1N**±.15	**29.3E**±.20	**10**		**4**	**0-1**
ISK	IX 25 11 48 05.0	40.09N	29.44E	10	2.5D		¶97ix3733
ISC	Poorly determined						
ISC	**IX 25 15 25 05**±1.7	**39.2N**±.13	**27.8E**±.27	**10**		**4**	**1-1**
ISK	IX 25 15 25 04.7	39.26N	27.72E	10	2.7D		¶97ix3754
ISC	Poorly determined						
ISC	**IX 25 19 21 07**±8.1	**39.0N**±.16	**38.8E**±.89	**9**		**4**	**1-2**
ISK	IX 25 19 21 07.7	38.99N	38.70E	9	3.4D		¶97ix3780
ISC	Poorly determined						
ISK	**IX 26 08 01 08.1**	**39.73N**	**29.36E**	**10**	**2.9D**		¶97ix3919
ISC	**IX 26 08 15 01**±1.2	**39.1N**±.11	**27.6E**±.18	**10**		**4**	**1-1**
ISK	IX 26 08 15 01.6	39.10N	27.59E	10	2.6D		¶97ix3922
ISC	Poorly determined						
ISC	**IX 26 08 41 30**±1.3	**41.1N**±.11	**28.5E**±.15	**12**±13		**5**	**0-1**
ISK	IX 26 08 41 30.6	41.13N	28.46E	8	2.7D		¶97ix3925
ISC	Poorly determined						
ISC	**IX 26 11 13 11.6**±.67	**39.23N**±.068	**41.34E**±.085	**74**±9.0	**4.1b**	**29**	**1-54**
ISK	IX 26 11 13 06.3	39.33N	41.44E	10	3.7D		¶97ix3969
EIDC	IX 26 11 13 07.4	39.4N	40.8E	0	4.1b,3.6L		
NEIC	IX 26 11 13 09.7	39.30N	40.83E	33	4.1b		
NEIC	Less reliable solution.						

NEIC Felt at Erzurum.
ISC IX 26 11 15 53±1.1 **39.20N**±.095 **27.7E**±.14 **14** **5 1-1**
ISK IX 26 11 15 53.4 39.27N 27.66E 14 2.6D **¶97ix3973**
ISC IX 26 11 58 48±1.4 **40.00N**±.099 **28.8E**±.12 **14** **4 0-1**
ISK IX 26 11 58 48.4 39.97N 28.85E 14 2.6D **¶97ix3982**
ISC Poorly determined
ISC IX 26 12 54 35±1.3 **39.1N**±.15 **27.7E**±.33 **10** **4 1-1**
ISK IX 26 12 54 34.1 38.98N 27.78E 10 2.7D **¶97ix4001**
ISC Poorly determined
ISC IX 26 15 55 52±1.9 **39.2N**±.12 **27.9E**±.29 **13** **4 1-1**
ISK IX 26 15 55 52.3 39.22N 27.81E 13 2.7D **¶97ix4067**
ISC Poorly determined
ISC IX 26 19 10 21.2±.73 **40.65N**±.053 **29.03E**±.064 **7**±8.2 **13 0-3**
ISK IX 26 19 10 21.0 40.65N 29.08E 8 3.2D **¶97ix4118**
ISC IX 26 21 31 45±1.3 **40.29N**±.074 **38.0E**±.14 **10** **12 1-5**
ISK IX 26 21 31 43.2 40.25N 38.00E 10 3.4D **¶97ix4148**
ISC IX 27 08 20 29±1.5 **39.1N**±.11 **27.6E**±.25 **5** **4 1-1**
ISK IX 27 08 20 29.1 39.14N 27.65E 5 2.7D **¶97ix4300**
ISC Poorly determined
ISK IX 27 08 48 15.4 **39.26N** **29.17E** **10** **2.7D** **¶97ix4307**
ISC IX 27 09 08 40.9±.82 **39.73N**±.067 **29.25E**±.081 **10** **10 0-2**
ISK IX 27 09 08 38.4 39.64N 29.37E 10 3.0D **¶97ix4310**
ISC IX 27 09 09 56±1.0 **40.64N**±.074 **29.09E**±.093 **5** **5 0-1**
ISK IX 27 09 09 55.5 40.65N 29.08E 5 2.5D **¶97ix4311**
ISC IX 27 09 56 00±1.3 **39.0N**±.16 **27.7E**±.35 **10** **4 1-1**
ISK IX 27 09 56 00.8 39.03N 27.70E 10 2.7D **¶97ix4319**
ISC Poorly determined
ISC IX 27 10 02 35±1.5 **39.1N**±.14 **27.5E**±.36 **10** **4 1-1**
ISK IX 27 10 02 33.0 38.99N 27.48E 10 2.6D **¶97ix4321**
ISC Poorly determined
ISK IX 27 12 30 11.9 **41.16N** **28.43E** **10** **2.6D** **¶97ix4354**
ISC IX 27 13 37 46±1.5 **39.1N**±.11 **27.6E**±.26 **10** **4 1-1**
ISK IX 27 13 37 45.5 39.17N 27.61E 10 2.7D **¶97ix4365**
ISC Poorly determined
ISC IX 27 14 38 39±1.3 **40.64N**±.083 **29.1E**±.13 **6** **4 0-1**
ISK IX 27 14 38 38.3 40.65N 29.07E 6 2.6D **¶97ix4377**
ISC Poorly determined
ISC IX 27 15 22 12±1.5 **39.1N**±.11 **27.6E**±.26 **9** **4 1-1**
ISK IX 27 15 22 11.8 39.14N 27.61E 9 2.7D **¶97ix4387**
ISC Poorly determined
ISC IX 27 15 27 37±1.0 **39.22N**±.093 **27.8E**±.13 **10** **6 1-2**
ISK IX 27 15 27 36.5 39.26N 27.74E 10 2.8D **¶97ix4388**
ISC IX 28 00 44 47±1.1 **40.63N**±.088 **36.9E**±.11 **10** **10 0-4**
ISK IX 28 00 44 46.5 40.60N 36.68E 10 3.1D **¶97ix4497**
ISC IX 28 04 53 26±4.7 **40.1N**±.19 **27.3E**±.39 **10** **4 1-1**
ISK IX 28 04 53 24.3 40.13N 27.13E 10 2.7D **¶97ix4543**
ISC Poorly determined
ISK IX 28 05 17 35.8 **39.64N** **29.50E** **10** **2.5D** **¶97ix4548**
ISC IX 28 05 42 32±1.3 **39.44N**±.088 **28.7E**±.17 **6** **5 0-1**
ISK IX 28 05 42 32.0 39.45N 28.68E 6 2.8D **¶97ix4554**
ISC IX 28 08 09 45±1.1 **39.07N**±.098 **27.7E**±.17 **10** **5 1-1**
ISK IX 28 08 09 45.7 39.07N 27.66E 10 2.7D **¶97ix4589**
ISC IX 28 08 26 28±9.7 **39.5N**±.48 **28.0E**±.52 **5** **4 1-1**
ISK IX 28 08 26 27.7 39.47N 27.97E 5 2.6D **¶97ix4592**
ISC Poorly determined
ISC IX 28 09 11 54±1.7 **39.0N**±.27 **27.6E**±.34 **15**±37 **5 1-1**
ISK IX 28 09 11 53.7 39.12N 27.55E 13 2.6D **¶97ix4602**
ISC Poorly determined
ISC IX 28 09 20 12±1.3 **39.1N**±.15 **27.6E**±.35 **10** **4 1-1**
ISK IX 28 09 20 10.5 38.95N 27.64E 10 2.7D **¶97ix4605**
ISC Poorly determined
ISC IX 28 10 34 53±1.1 **39.07N**±.095 **27.6E**±.17 **10** **5 1-1**
ISK IX 28 10 34 54.6 39.05N 27.64E 10 2.7D **¶97ix4616**
ISC IX 28 11 50 15.5±.95 **40.84N**±.077 **28.13E**±.085 **5**±12 **8 0-2**
ISK IX 28 11 50 15.4 40.83N 28.13E 5 2.9D **¶97ix4638**
ISC IX 28 12 08 55±1.2 **39.1N**±.10 **27.8E**±.17 **10** **5 1-1**
ISK IX 28 12 08 55.7 39.08N 27.74E 10 2.6D **¶97ix4644**
ISC IX 28 15 22 24±1.6 **39.1N**±.12 **27.7E**±.27 **10** **4 1-1**
ISK IX 28 15 22 22.8 39.14N 27.70E 10 2.8D **¶97ix4680**
ISC Poorly determined
ISK IX 28 21 13 57.5 **39.97N** **27.01E** **10** **2.8D** **¶97ix4760**
ATH IX 29 01 13 46.9 **39.59N** **26.17E** **5** **¶97ix4819**
ISC IX 29 02 19 06±1.1 **37.86N**±.070 **28.71E**±.064 **5**±11 **13 1-3**
ISK IX 29 02 19 05.6 37.87N 28.71E 8 3.2D **¶97ix4832**
ATH IX 29 02 19 18.3 37.22N 27.59E 35 3.5D
ISK IX 29 03 03 08.5 **38.72N** **37.47E** **10** **2.9D** **¶97ix4846**
ISK IX 29 05 13 04.3 **39.66N** **29.44E** **10** **2.6D** **¶97ix4872**
ISC IX 29 08 54 43±2.6 **39.2N**±.13 **27.9E**±.27 **12**±28 **6 1-2**
ISK IX 29 08 54 42.9 39.23N 27.74E 10 2.9D **¶97ix4917**
ISC IX 29 10 07 29±1.1 **39.10N**±.099 **27.7E**±.17 **10** **5 1-1**
ISK IX 29 10 07 29.9 39.08N 27.71E 10 2.7D **¶97ix4925**
ISC IX 29 10 49 51±1.3 **39.1N**±.12 **27.8E**±.19 **10** **4 1-1**
ISK IX 29 10 49 51.3 39.07N 27.74E 10 2.7D **¶97ix4929**
ISC Poorly determined
ISK IX 29 11 41 55.5 **39.26N** **29.15E** **10** **2.7D** **¶97ix4937**
ISC IX 29 12 38 03±1.3 **41.1N**±.10 **28.5E**±.15 **15**±14 **5 0-1**
ISK IX 29 12 38 02.7 41.11N 28.48E 12 2.7D **¶97ix4948**
ISC Poorly determined
ISC IX 29 13 06 34±1.4 **39.0N**±.17 **27.8E**±.34 **12** **4 1-1**
ISK IX 29 13 06 34.6 39.12N 27.71E 12 2.7D **¶97ix4952**
ISC Poorly determined
ISC IX 29 14 38 18±2.1 **39.31N**±.097 **29.1E**±.35 **2**±18 **5 1-2**
ISK IX 29 14 38 18.6 39.31N 29.04E 10 2.7D **¶97ix4966**
ISC Poorly determined
ISC IX 29 15 02 00±1.2 **39.0N**±.10 **27.7E**±.18 **13** **5 1-1**
ISK IX 29 15 01 59.8 39.11N 27.65E 13 2.7D **¶97ix4968**
ISK IX 29 15 07 57.0 **40.21N** **28.80E** **6** **2.5D** **¶97ix4970**
ISK IX 29 16 47 59.9 **39.26N** **29.02E** **5** **2.6D** **¶97ix4983**
ISC IX 29 23 16 43.8±.57 **39.33N**±.044 **29.13E**±.080 **5** **19 1-3**
ISK IX 29 23 16 43.0 39.33N 29.13E 5 3.2D **¶97ix5052**
ISK IX 29 23 20 57.0 **39.32N** **29.12E** **5** **2.7D** **¶97ix5053**
ISC IX 29 23 25 33.1±.92 **39.30N**±.081 **29.1E**±.22 **6** **7 1-3**
ISK IX 29 23 25 32.9 39.25N 29.06E 6 2.9D **¶97ix5054**
ISC IX 29 23 38 24±1.1 **39.23N**±.085 **29.0E**±.17 **6** **7 1-3**
ISK IX 29 23 38 24.0 39.28N 29.09E 6 2.9D **¶97ix5059**
ISC IX 30 00 00 05±1.2 **39.31N**±.083 **29.2E**±.20 **10** **5 1-15**
ISK IX 30 00 00 05.0 39.31N 29.18E 10 2.8D **¶97ix5068**
ISC IX 30 01 41 32.2±.83 **39.31N**±.065 **29.2E**±.15 **5** **9 1-2**
ISK IX 30 01 41 32.0 39.31N 29.08E 5 2.9D **¶97ix5090**
ISC IX 30 02 00 15.1±.55 **39.29N**±.048 **29.10E**±.066 **5** **19 1-3**
ISK IX 30 02 00 13.9 39.30N 29.08E 5 3.3D **¶97ix5098**
ISC IX 30 02 15 59±1.0 **38.18N**±.092 **38.8E**±.11 **10** **11 0-5**
ISK IX 30 02 15 57.8 38.20N 38.77E 10 3.6D **¶97ix5099**
ISC IX 30 03 29 35.6±.99 **39.33N**±.078 **29.2E**±.19 **5** **6 1-2**
ISK IX 30 03 29 35.6 39.30N 29.08E 5 2.8D **¶97ix5109**
ISC IX 30 07 42 05±1.6 **39.1N**±.12 **27.7E**±.27 **10** **4 1-1**
ISK IX 30 07 42 03.7 39.10N 27.67E 10 2.7D **¶97ix5164**
ISC Poorly determined
ISC IX 30 08 13 10±2.2 **39.3N**±.20 **29.1E**±.36 **2**±36 **5 0-1**
ISK IX 30 08 13 10.3 39.27N 29.05E 5 2.6D **¶97ix5170**
ISC Poorly determined
ISC IX 30 08 37 21±1.4 **39.9N**±.11 **28.9E**±.14 **10** **4 0-1**
ISK IX 30 08 37 20.7 39.83N 28.99E 10 2.5D **¶97ix5175**
ISC Poorly determined
ISC IX 30 08 41 13±1.5 **39.9N**±.11 **28.9E**±.15 **10** **4 0-1**
ISK IX 30 08 41 12.4 39.87N 28.90E 10 2.5D **¶97ix5177**
ISC Poorly determined
ISK IX 30 08 45 36.6 **39.61N** **29.58E** **12** **2.7D** **¶97ix5179**
ISK IX 30 09 00 30.4 **39.65N** **29.53E** **9** **2.6D** **¶97ix5184**
ISC IX 30 09 04 05±1.1 **39.08N**±.096 **27.6E**±.17 **10** **5 1-1**
ISK IX 30 09 04 07.0 39.07N 27.66E 10 2.7D **¶97ix5185**
ISC IX 30 09 08 08±6.6 **41.4N**±.44 **28.4E**±.33 **9** **4 0-1**
ISK IX 30 09 08 08.0 41.42N 28.39E 9 2.6D **¶97ix5186**
ISC Poorly determined
ISC IX 30 10 11 25±1.2 **39.32N**±.075 **29.1E**±.16 **4**±19 **6 0-2**
ISK IX 30 10 11 24.6 39.29N 29.04E 8 2.8D **¶97ix5195**
ISC IX 30 10 18 14±1.3 **39.1N**±.15 **27.7E**±.33 **10** **4 1-1**
ISK IX 30 10 18 13.2 38.97N 27.77E 10 2.7D **¶97ix5199**
ISC Poorly determined
ISK IX 30 10 41 27.5 **39.68N** **29.41E** **10** **2.6D** **¶97ix5205**
ISC IX 30 10 50 37.3±.95 **39.25N**±.082 **27.7E**±.12 **8** **7 1-2**
ISK IX 30 10 50 37.5 39.25N 27.71E 8 2.7D **¶97ix5206**
ISC IX 30 11 16 54±1.3 **39.97N**±.095 **28.8E**±.13 **10** **4 0-1**
ISK IX 30 11 16 53.5 39.97N 28.82E 10 2.4D **¶97ix5214**
ISC Poorly determined
ISC IX 30 11 17 44±1.3 **39.92N**±.094 **28.8E**±.14 **10** **4 0-1**
ISK IX 30 11 17 43.8 39.93N 28.83E 10 2.5D **¶97ix5215**
ISC Poorly determined
ISC IX 30 11 49 41±1.4 **39.30N**±.094 **29.1E**±.27 **11**±17 **5 1-2**
ISK IX 30 11 49 42.5 39.31N 29.17E 10 2.8D **¶97ix5219**
ISC Poorly determined
ISK IX 30 12 36 25.2 **41.12N** **28.43E** **10** **2.6D** **¶97ix5226**
ISK IX 30 12 37 54.1 **41.14N** **28.48E** **10** **2.6D** **¶97ix5227**
ISK IX 30 12 49 26.2 **39.12N** **27.60E** **10** **2.7D** **¶97ix5230**
ISC IX 30 15 11 39.9±.74 **39.27N**±.072 **27.7E**±.11 **10** **10 1-2**
ISK IX 30 15 11 38.8 39.26N 27.75E 10 2.7D **¶97ix5255**
ISC IX 30 15 19 42±1.1 **39.05N**±.098 **27.7E**±.17 **10** **5 1-1**
ISK IX 30 15 19 42.7 39.05N 27.72E 10 2.8D **¶97ix5260**
ISC IX 30 15 57 09.1±.40 **39.35N**±.034 **29.27E**±.043 **5** **29 1-4**
ISK IX 30 15 57 08.3 39.31N 29.16E 5 3.3D **¶97ix5271**
ATH IX 30 15 57 18.0 39.42N 28.66E 10 3.7D
THE IX 30 15 57 30.2 39.1N 26.4E 10
ISK IX 30 15 59 25.0 **39.26N** **28.95E** **6** **2.6D** **¶97ix5272**
ISC IX 30 18 32 07±2.5 **39.31N**±.071 **29.1E**±.11 **1**±23 **14 1-3**
ISK IX 30 18 32 07.7 39.31N 29.12E 6 3.1D **¶97ix5290**
ISK IX 30 22 29 12.4 **39.35N** **27.64E** **5** **2.7D** **¶97ix5326**
ISC IX 30 23 07 29±1.6 **38.0N**±.16 **30.4E**±.20 **10** **6 0-3**
ISK IX 30 23 07 25.0 38.10N 30.21E 10 3.1D **¶97ix5329**
ISK X 01 04 48 57.9 **39.43N** **29.07E** **10** **2.5D** **¶97x0028**
ISK X 01 06 58 49.2 **39.71N** **29.39E** **10** **2.5D** **¶97x0045**
ISK X 01 07 11 45.9 **39.17N** **30.16E** **15** **2.6D** **¶97x0047**
ISC X 01 07 20 26.6±.72 **40.35N**±.095 **30.77E**±.062 **10** **11 0-2**
ISK X 01 07 20 24.3 40.74N 30.79E 10 2.9D **¶97x0048**
ISK X 01 07 23 54.2 **39.49N** **29.56E** **10** **2.5D** **¶97x0049**
ISK X 01 07 29 31.7 **39.56N** **29.69E** **15** **2.4D** **¶97x0050**
ISK X 01 07 47 57.7 **39.68N** **29.32E** **6** **2.5D** **¶97x0051**
ISK X 01 07 58 41.4 **39.66N** **29.46E** **10** **2.5D** **¶97x0053**
ISK X 01 08 35 32.6 **39.99N** **29.38E** **10** **2.6D** **¶97x0056**
ISK X 01 09 07 34.0 **40.22N** **29.14E** **10** **2.6D** **¶97x0061**
ISK X 01 09 14 06.2 **39.47N** **29.50E** **6** **2.5D** **¶97x0062**
ISK X 01 09 42 21.4 **39.67N** **28.40E** **10** **2.5D** **¶97x0067**
ISC X 01 10 29 43±1.0 **39.31N**±.085 **29.1E**±.16 **8** **6 0-1**
ISK X 01 10 29 42.8 39.29N 29.08E 8 2.7D **¶97x0070**
ISK X 01 11 48 08.2 **39.93N** **28.86E** **10** **2.5D** **¶97x0077**
ISK X 01 12 11 14.0 **39.80N** **42.49E** **10** **2.9D** **¶97x0083**
ISC X 01 12 41 31±1.7 **39.2N**±.13 **27.8E**±.27 **14** **4 1-1**
ISK X 01 12 41 31.2 39.25N 27.80E 14 2.6D **¶97x0086**
ISC Poorly determined
ISK X 01 13 12 32.4 **38.75N** **43.22E** **10** **3.2D** **¶97x0089**
ISK X 01 13 53 20.7 **38.73N** **43.20E** **10** **3.0D** **¶97x0097**
ISC X 01 14 40 56±1.2 **40.76N**±.078 **28.9E**±.13 **5** **4 0-1**
ISK X 01 14 40 55.3 40.76N 28.94E 5 2.6D **¶97x0103**
ISC Poorly determined
ISC X 01 15 19 04±1.6 **39.1N**±.11 **27.7E**±.26 **8** **4 1-1**
ISK X 01 15 19 03.8 39.15N 27.66E 8 2.7D **¶97x0107**
ISC Poorly determined
ISC X 01 15 28 36±1.6 **39.2N**±.11 **27.8E**±.26 **10** **4 1-1**
ISK X 01 15 28 36.3 39.19N 27.79E 10 2.7D **¶97x0109**
ISC Poorly determined
ISC X 01 21 17 30.0±.49 **40.48N**±.043 **26.08E**±.055 **5** **22 0-4**
ISK X 01 21 17 28.8 40.41N 26.02E 5 3.2D **¶97x0153**
THE X 01 21 17 30.6 40.4N 26.2E 1 3.0L
ISC X 02 02 49 20±1.0 **39.25N**±.082 **36.7E**±.14 **10** **5 1-2**
ISK X 02 02 49 18.4 39.26N 36.81E 10 3.2D **¶97x0195**
ISC X 02 07 42 19±3.0 **40.6N**±.24 **28.3E**±.15 **10** **4 0-1**
ISK X 02 07 42 18.0 40.65N 28.25E 10 2.5D **¶97x0236**
ISC Poorly determined
ISC X 02 08 49 20±1.2 **39.1N**±.10 **27.7E**±.17 **10** **5 1-1**
ISK X 02 08 49 20.6 39.07N 27.69E 10 2.6D **¶97x0244**
ISK X 02 09 08 30.0 **41.36N** **28.22E** **13** **2.6D** **¶97x0247**
ISC X 02 09 50 17±1.3 **39.23N**±.098 **27.1E**±.17 **10** **4 1-1**
ISK X 02 09 50 18.3 39.24N 27.05E 10 2.6D **¶97x0253**
ISC Poorly determined
ISK X 02 09 51 06.3 **39.52N** **29.94E** **10** **2.5D** **¶97x0254**
ISK X 02 10 20 45.9 **39.66N** **29.46E** **10** **2.6D** **¶97x0258**
ISC X 02 10 31 52.9±.94 **39.12N**±.090 **27.7E**±.14 **10** **7 1-2**
ISK X 02 10 31 52.6 39.17N 27.64E 10 2.8D **¶97x0262**
ISK X 02 10 55 53.3 **39.69N** **29.49E** **10** **2.6D** **¶97x0264**
ISC X 02 11 18 10.0±.75 **39.26N**±.073 **27.7E**±.13 **10** **9 1-2**
ISK X 02 11 18 08.9 39.25N 27.73E 10 2.8D **¶97x0268**

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**02 12 48 28**±5.0	**41.1N**±.12	**28.6E**±.51	**10**		**4**	**0-1**
ISK	X	02 12 48 28.5	41.11N	28.57E	10	2.7D		¶97x0285
ISC		Poorly determined						
ISK	**X**	**02 13 38 31.8**	**39.87N**	**28.66E**	**10**	**2.7D**		¶97x0293
ISC	**X**	**02 14 03 02**±6.2	**40.0N**±.49	**29.1E**±.29	**10**		**4**	**0-1**
ISK	X	02 14 03 01.3	39.98N	29.11E	10	2.6D		¶97x0294
ISC		Poorly determined						
ISC	**X**	**02 14 29 54.0**±.51	**39.35N**±.044	**27.69E**±.056	**10**		**18**	**1-3**
ISK	X	02 14 29 52.2	39.34N	27.60E	10	3.0D		¶97x0297
ATH	X	02 14 29 54.8	39.37N	27.68E	5			
ISK	**X**	**02 14 43 37.7**	**39.66N**	**29.41E**	**10**	**2.5D**		¶97x0299
ISC	**X**	**02 15 29 33**±1.1	**39.12N**±.092	**27.5E**±.18	**11**		**5**	**1-2**
ISK	X	02 15 29 32.1	39.16N	27.64E	11	2.7D		¶97x0304
ISC	**X**	**02 15 38 04**±1.4	**39.7N**±.13	**26.5E**±.16	**10**		**4**	**0-2**
ISK	X	02 15 38 03.4	39.75N	26.34E	10	2.8D		¶97x0306
ISC		Poorly determined						
ISC	**X**	**02 15 43 19**±1.7	**39.2N**±.12	**27.8E**±.27	**11**		**4**	**1-1**
ISK	X	02 15 43 18.7	39.25N	27.78E	11	2.7D		¶97x0308
ISC		Poorly determined						
ISK	**X**	**02 19 42 37.8**	**39.24N**	**36.80E**	**5**	**2.8D**		¶97x0333
ISC	**X**	**02 22 44 32.2**±.76	**39.84N**±.057	**29.18E**±.083	**10**		**15**	**1-3**
ISK	X	02 22 44 31.1	39.82N	29.21E	10	3.1D		¶97x0350
ATH	X	02 22 44 51.0	39.56N	27.84E	10	3.5D		
ISK	**X**	**03 00 09 14.4**	**39.39N**	**39.97E**	**10**	**2.8D**		¶97x0360
ISC	**X**	**03 02 12 43**±1.5	**39.6N**±.13	**26.5E**±.17	**5**		**4**	**0-2**
ISK	X	03 02 12 42.1	39.66N	26.51E	5	2.8D		¶97x0369
ISC		Poorly determined						
ISC	**X**	**03 03 22 26**±1.7	**38.4N**±.12	**31.1E**±.23	**33**		**7**	**1-2**
								¶97x0377
ISK	**X**	**03 04 08 05.6**	**39.37N**	**39.91E**	**5**	**3.0D**		¶97x0381
ISC	**X**	**03 04 16 08**±7.2	**39.9N**±.47	**29.2E**±.30	**10**		**4**	**0-1**
ISK	X	03 04 16 06.0	39.83N	29.21E	10	2.7D		¶97x0382
ISC		Poorly determined						
ISK	**X**	**03 05 19 56.5**	**39.60N**	**29.47E**	**5**	**2.6D**		¶97x0399
ISK	**X**	**03 08 40 19.8**	**39.44N**	**40.09E**	**10**	**2.9D**		¶97x0430
ISK	**X**	**03 09 03 20.5**	**36.16N**	**29.22E**	**10**	**2.7D**		¶97x0434
ISC	**X**	**03 12 58 46.3**±.53	**40.37N**±.058	**27.04E**±.055	**8**		**16**	**1-3**
ISK	X	03 12 58 45.8	40.39N	27.03E	8	3.0D		¶97x0467
ISC	**X**	**03 13 45 21**±1.7	**39.1N**±.12	**27.7E**±.27	**10**		**4**	**1-1**
ISK	X	03 13 45 21.8	39.04N	27.72E	10	2.7D		¶97x0473
ISC		Poorly determined						
ISK	**X**	**03 14 28 35.1**	**39.18N**	**28.04E**	**10**	**2.8D**		¶97x0476
ISC	**X**	**03 18 44 22.7**±.74	**40.42N**±.052	**29.27E**±.064	**3**±10		**12**	**0-2**
ISK	X	03 18 44 21.9	40.42N	29.30E	10	2.9D		¶97x0510
ISK	**X**	**03 21 38 04.1**	**39.38N**	**39.85E**	**10**	**2.8D**		¶97x0528
ISC	**X**	**04 08 07 35**±1.5	**40.8N**±.14	**35.3E**±.10	**7**±19		**6**	**0-1**
ISK	X	04 08 07 35.8	40.87N	35.27E	5	2.7D		¶97x0611
ISC		Poorly determined						
ISC	**X**	**04 09 50 09**±1.4	**37.1N**±.17	**36.4E**±.12	**10**		**4**	**1-2**
ISK	X	04 09 50 09.0	37.11N	36.41E	10	2.8D		¶97x0621
ISC		Poorly determined						
ISC	**X**	**04 16 15 48**±1.3	**37.10N**±.092	**29.9E**±.19	**10**		**4**	**0-1**
ISK	X	04 16 15 47.2	37.11N	29.82E	10	3.2D		¶97x0683
ISC		Poorly determined						
ISC	**X**	**04 20 23 51.5**±.78	**39.44N**±.063	**27.6E**±.12	**5**		**8**	**1-2**
ISK	X	04 20 23 51.5	39.40N	27.62E	5	2.9D		¶97x0720
ISC	**X**	**05 07 59 17**±1.0	**39.2N**±.10	**27.5E**±.22	**10**		**6**	**1-2**
ISK	X	05 07 59 17.5	39.15N	27.70E	10	2.6D		¶97x0830
ISC	**X**	**05 10 01 47**±1.3	**39.0N**±.16	**27.7E**±.35	**10**		**4**	**1-1**
ISK	X	05 10 01 46.4	39.13N	27.57E	10	2.7D		¶97x0847
ISC		Poorly determined						
ISC	**X**	**05 11 16 32**±1.7	**39.1N**±.12	**27.7E**±.27	**10**		**4**	**1-1**
ISK	X	05 11 16 31.4	39.14N	27.69E	10	2.7D		¶97x0857
ISC		Poorly determined						
ISC	**X**	**05 16 42 02**±3.3	**37.7N**±.12	**36.4E**±.19	**12**±28		**5**	**1-2**
ISK	X	05 16 42 01.7	37.74N	36.41E	5	2.8D		¶97x0890
ISC		Poorly determined						
ISC	**X**	**05 17 02 22**±7.1	**40.2N**±.35	**27.4E**±.56	**10**		**4**	**0-2**
ISK	X	05 17 02 20.7	40.29N	27.34E	10	2.8D		¶97x0891
ISC		Poorly determined						
ISC	**X**	**05 18 54 59**±2.1	**40.8N**±.24	**29.1E**±.35	**25**±47		**5**	**0-1**
ISK	X	05 18 54 58.8	40.81N	29.08E	13	2.6D		¶97x0912
ISC		Poorly determined						
ISC	**X**	**05 21 16 11.1**±.78	**40.76N**±.062	**29.02E**±.084	**5**		**9**	**0-2**
ISK	X	05 21 16 10.6	40.77N	29.07E	5	2.8D		¶97x0937
ISC	**X**	**06 04 18 00**±1.1	**40.77N**±.068	**28.98E**±.081	**1**±11		**9**	**0-2**
ISK	X	06 04 18 00.0	40.82N	29.01E	6	3.0D		¶97x0984
ISC	**X**	**06 04 24 26.4**±.93	**40.76N**±.060	**28.97E**±.065	**1**±9.4		**13**	**0-2**
ISK	X	06 04 24 26.2	40.77N	29.03E	9	3.1D		¶97x0987
ISC	**X**	**06 04 55 40.1**±.98	**40.75N**±.067	**29.00E**±.092	**3**±13		**8**	**0-2**
ISK	X	06 04 55 39.7	40.76N	29.05E	9	3.1D		¶97x0991
ISC	**X**	**06 06 13 51**±1.0	**40.79N**±.076	**29.05E**±.092	**5**		**5**	**0-1**
ISK	X	06 06 13 50.9	40.80N	29.08E	5	2.7D		¶97x1005
ISC	**X**	**06 07 05 13.2**±.93	**40.76N**±.068	**29.01E**±.077	**2**±12		**8**	**0-2**
ISK	X	06 07 05 12.8	40.78N	29.08E	11	2.7D		¶97x1011
ISC	**X**	**06 07 07 14.3**±.76	**40.70N**±.067	**29.06E**±.076	**5**		**10**	**0-3**
ISK	X	06 07 07 13.2	40.75N	29.19E	5	3.0D		¶97x1012
ISC	**X**	**06 07 14 32**±1.3	**40.79N**±.084	**29.0E**±.13	**11**		**4**	**0-1**
ISK	X	06 07 14 31.8	40.81N	29.09E	11	2.6D		¶97x1013
ISC		Poorly determined						
ISC	**X**	**06 07 57 20**±1.3	**40.78N**±.085	**29.1E**±.14	**10**		**4**	**0-1**
ISK	X	06 07 57 19.4	40.80N	29.09E	10	2.6D		¶97x1018
ISC		Poorly determined						
ISC	**X**	**06 09 25 16**±1.6	**39.3N**±.11	**27.8E**±.26	**10**		**4**	**1-1**
ISK	X	06 09 25 15.0	39.27N	27.67E	10	2.8D		¶97x1026
ISC		Poorly determined						
ISC	**X**	**06 10 44 59**±1.3	**39.6N**±.10	**29.3E**±.23	**10**		**5**	**1-1**
ISK	X	06 10 44 58.8	39.60N	29.32E	10	2.9D		¶97x1029
ISC	**X**	**06 11 40 33**±1.2	**39.1N**±.10	**27.7E**±.18	**15**		**5**	**1-1**
ISK	X	06 11 40 32.9	39.13N	27.70E	15	2.7D		¶97x1036
ISK	**X**	**06 12 01 48.3**	**41.11N**	**28.50E**	**12**	**2.6D**		¶97x1041
ISK	**X**	**06 12 12 09.8**	**40.14N**	**28.82E**	**10**	**2.6D**		¶97x1042
ISC	**X**	**06 12 20 41**±1.5	**39.1N**±.11	**27.7E**±.26	**14**		**4**	**1-1**
ISK	X	06 12 20 41.0	39.10N	27.63E	14	2.7D		¶97x1045
ISC		Poorly determined						
ISK	**X**	**06 13 15 46.3**	**39.24N**	**27.68E**	**10**	**2.8D**		¶97x1054
ISK	**X**	**06 14 41 45.6**	**39.14N**	**27.26E**	**10**	**2.7D**		¶97x1063
ISK	**X**	**06 15 26 20.0**	**39.60N**	**29.66E**	**10**	**2.3D**		¶97x1068
ISC	**X**	**06 16 07 22**±1.0	**40.29N**±.091	**26.6E**±.11	**10**		**6**	**1-2**
ISK	X	06 16 07 20.2	40.37N	26.55E	10	2.8D		¶97x1075
ISC	**X**	**06 16 40 58.3**±.88	**37.09N**±.085	**28.4E**±.11	**25**±12		**9**	**0-3**
ISK	X	06 16 40 58.2	37.14N	28.41E	10	3.1D		¶97x1081
ATH	X	06 16 41 08.0	36.83N	27.12E	10	3.7D		
ISC	**X**	**07 04 41 07.5**±.83	**40.7N**±.13	**30.37E**±.055	**5**		**10**	**0-2**
ISK	X	07 04 41 07.0	40.72N	30.38E	5	2.9D		¶97x1182
ISC	**X**	**07 06 37 33**±1.4	**40.4N**±.17	**29.0E**±.10	**10**		**4**	**0-1**
ISK	X	07 06 37 32.8	40.36N	28.99E	10	2.6D		¶97x1194
ISC		Poorly determined						
ISK	**X**	**07 06 55 19.5**	**39.58N**	**29.60E**	**5**	**2.5D**		¶97x1196
ISK	**X**	**07 07 27 56.5**	**39.64N**	**29.59E**	**10**	**2.5D**		¶97x1200
ISK	**X**	**07 07 40 55.7**	**39.65N**	**29.46E**	**10**	**2.5D**		¶97x1203
ISK	**X**	**07 08 05 34.3**	**38.50N**	**36.69E**	**10**	**2.6D**		¶97x1208
ISK	**X**	**07 08 13 36.7**	**39.65N**	**29.54E**	**10**	**2.6D**		¶97x1211
ISK	**X**	**07 08 19 47.9**	**39.61N**	**29.47E**	**10**	**2.6D**		¶97x1214
ISK	**X**	**07 08 25 30.9**	**39.09N**	**27.72E**	**10**	**2.7D**		¶97x1216
ISC	**X**	**07 08 53 00**±6.8	**38.8N**±.38	**28.4E**±.62	**10**		**4**	**1-2**
ISK	X	07 08 53 00.4	38.91N	28.29E	10	2.7D		¶97x1219
ISC		Poorly determined						
ISC	**X**	**07 11 13 24.1**±.87	**39.17N**±.074	**27.6E**±.16	**11**		**7**	**1-2**
ISK	X	07 11 13 23.6	39.19N	27.66E	11	2.7D		¶97x1236
ISC	**X**	**07 11 50 08**±1.5	**39.2N**±.10	**27.8E**±.24	**5**		**5**	**1-2**
ISK	X	07 11 50 08.2	39.26N	27.73E	5	2.7D		¶97x1240
ISC	**X**	**07 12 22 24.3**±.95	**40.95N**±.095	**31.86E**±.072	**10**		**12**	**0-3**
ISK	X	07 12 22 23.7	40.92N	31.79E	10	2.9D		¶97x1248
ISK	**X**	**07 13 50 56.6**	**39.63N**	**29.39E**	**6**	**2.2D**		¶97x1262
ISK	**X**	**07 23 48 33.0**	**39.26N**	**29.08E**	**10**	**2.6D**		¶97x1324
ISK	**X**	**08 07 18 17.2**	**39.49N**	**29.48E**	**7**	**2.6D**		¶97x1367
ISK	**X**	**08 07 23 17.2**	**39.26N**	**27.71E**	**7**	**2.7D**		¶97x1369
ISK	**X**	**08 07 57 21.0**	**39.58N**	**29.59E**	**10**	**2.6D**		¶97x1371
ISK	**X**	**08 07 57 55.0**	**39.52N**	**29.59E**	**10**	**2.6D**		¶97x1372
ISK	**X**	**08 09 15 32.5**	**39.70N**	**27.78E**	**10**	**2.6D**		¶97x1380
ISK	**X**	**08 09 56 16.1**	**39.85N**	**29.33E**	**10**	**2.5D**		¶97x1384
ISC	**X**	**08 10 07 53.5**±.86	**40.21N**±.080	**29.12E**±.086	**5**		**7**	**0-2**
ISK	X	08 10 07 53.0	40.18N	29.23E	5	2.6D		¶97x1388
ISK	**X**	**08 10 09 51.7**	**40.23N**	**26.32E**	**10**	**2.7D**		¶97x1389
ISC	**X**	**08 11 56 44**±1.3	**39.70N**±.088	**28.6E**±.17	**5**		**5**	**0-1**
ISK	X	08 11 56 44.1	39.68N	28.54E	5	2.5D		¶97x1410
ISC	**X**	**08 12 53 33.3**±.62	**39.21N**±.060	**36.53E**±.082	**9**		**15**	**1-4**
ISK	X	08 12 53 31.9	39.30N	36.52E	9	3.3D		¶97x1419
ISC	**X**	**08 13 05 23**±1.5	**39.2N**±.12	**27.8E**±.25	**14**		**5**	**1-1**
ISK	X	08 13 05 22.5	39.23N	27.76E	14	2.8D		¶97x1421
ISK	**X**	**08 13 10 45.2**	**41.23N**	**28.49E**	**7**	**2.7D**		¶97x1422
ISC	**X**	**08 13 54 15**±6.4	**39.4N**±.40	**28.2E**±.26	**10**		**4**	**0-1**
ISK	X	08 13 54 15.8	39.46N	28.29E	10	2.6D		¶97x1428
ISC		Poorly determined						
ISK	**X**	**08 14 46 14.3**	**39.53N**	**29.58E**	**10**	**2.6D**		¶97x1432
ISC	**X**	**08 17 14 02**±7.0	**40.3N**±.37	**27.2E**±.53	**10**		**5**	**1-2**
ISK	X	08 17 13 58.2	40.37N	26.97E	10	2.6D		¶97x1445
ISC	**X**	**08 23 04 00**±1.7	**40.70N**±.097	**29.8E**±.11	**7**±12		**9**	**0-2**
ISK	X	08 23 04 00.3	40.70N	29.82E	9	2.9D		¶97x1489
ISK	**X**	**09 00 10 03.0**	**40.72N**	**27.32E**	**10**	**2.6D**		¶97x1494
ISC	**X**	**09 07 09 43**±1.4	**39.1N**±.11	**27.6E**±.25	**10**		**4**	**1-1**
ISK	X	09 07 09 42.4	39.14N	27.61E	10	2.8D		¶97x1545
ISC		Poorly determined						
ISK	**X**	**09 09 20 51.5**	**39.64N**	**29.57E**	**10**	**2.6D**		¶97x1563
ISK	**X**	**09 09 54 42.1**	**39.72N**	**29.44E**	**10**	**2.5D**		¶97x1567
ISK	**X**	**09 09 57 11.7**	**39.65N**	**29.52E**	**10**	**2.5D**		¶97x1568
ISC	**X**	**09 13 55 15**±2.4	**40.2N**±.38	**33.0E**±.14	**33**		**5**	**0-1**
								¶97x1591
ISK	**X**	**09 14 03 26.3**	**41.13N**	**28.47E**	**7**	**2.7D**		¶97x1592
ISC	**X**	**09 15 18 16**±1.8	**40.7N**±.27	**30.4E**±.11	**4**±25		**6**	**1-2**
ISK	X	09 15 18 15.8	40.72N	30.47E	9	2.6D		¶97x1603
NEIC	X	09 15 18 18.9	40.69N	30.24E	10			
ISC		Poorly determined						
NEIC		Poor solution.						
ISC	**X**	**09 15 21 49**±1.4	**39.4N**±.11	**27.4E**±.26	**8**		**5**	**1-2**
								¶97x1604
ISC	**X**	**09 18 47 23**±1.1	**39.1N**±.12	**41.33E**±.098	**7**		**8**	**1-3**
ISK	X	09 18 47 22.5	39.06N	41.40E	7	3.1D		¶97x1625
ISK	**X**	**10 05 22 24.1**	**39.52N**	**29.55E**	**12**	**2.7D**		¶97x1694
ISK	**X**	**10 06 48 19.4**	**38.34N**	**39.21E**	**8**	**3.1D**		¶97x1710
ISC	**X**	**10 09 12 26**±6.3	**40.0N**±.48	**28.9E**±.25	**10**		**4**	**0-1**
ISK	X	10 09 12 27.6	40.12N	28.86E	10	2.5D		¶97x1726
ISC		Poorly determined						
ISC	**X**	**10 09 13 00.9**±.88	**40.4N**±.24	**28.70E**±.080	**10**		**6**	**0-6**
ISK	X	10 09 12 57.2	40.02N	28.81E	10	2.6D		¶97x1727
NEIC	X	10 09 13 00.5	40.33N	28.73E	10			
NEIC		Single network solution.						
ISK	**X**	**10 09 14 03.4**	**39.04N**	**37.42E**	**10**	**3.0D**		¶97x1728
ISK	**X**	**10 10 10 01.3**	**39.57N**	**29.43E**	**10**	**2.7D**		¶97x1736
ISC	**X**	**10 10 27 47.3**±.99	**39.18N**±.083	**27.6E**±.15	**10**		**6**	**1-1**
ISK	X	10 10 27 48.7	39.16N	27.57E	10	2.7D		¶97x1738
ISC	**X**	**10 12 36 03.2**±.83	**39.13N**±.076	**27.8E**±.12	**10**		**10**	**1-2**
ISK	X	10 12 36 02.9	39.14N	27.74E	5	2.8D		¶97x1751
NEIC	X	10 12 36 03.7	39.11N	27.75E	10			
NEIC		Single network solution.						
ISC	**X**	**10 12 37 26**±2.6	**39.9N**±.24	**29.2E**±.11	**24**±15		**7**	**0-2**
ISK	X	10 12 37 18.0	39.49N	29.52E	11	2.6D		¶97x1752
ISC	**X**	**10 15 59 48**±1.2	**39.27N**±.092	**27.6E**±.21	**10**		**5**	**1-1**
ISK	X	10 15 59 48.0	39.30N	27.58E	10	2.8D		¶97x1769
ISC	**X**	**10 16 15 26.6**±.64	**39.81N**±.052	**29.02E**±.070	**10**		**15**	**0-3**
NEIC	X	10 16 15 23.5	39.60N	29.21E	10			¶97x1770
ISK	X	10 16 15 25.1	39.74N	29.11E	7	3.0D		
NEIC		Single network solution.						
ISC	**X**	**10 17 04 17**±6.0	**39.7N**±.38	**29.1E**±.24	**6**		**5**	**1-1**
ISK	X	10 17 04 19.0	39.85N	29.06E	6	2.6D		¶97x1776
ISC	**X**	**10 21 20 58**±1.3	**38.6N**±.11	**43.7E**±.13	**6**		**9**	**0-6**
ISK	X	10 21 21 00.2	38.62N	43.45E	6	4.0D		¶97x1802
ISK	**X**	**11 08 46 45.2**	**39.54N**	**29.72E**	**14**	**2.6D**		¶97x1869
ISC	**X**	**11 08 55 05**±3.0	**37.29N**±.087	**36.1E**±.15	**10**±25		**7**	**1-2**
ISK	X	11 08 55 05.0	37.34N	36.05E	9	3.3D		¶97x1871
ISK	**X**	**11 10 23 18.7**	**40.07N**	**29.47E**	**7**	**2.6D**		¶97x1879
ISC	**X**	**11 14 02 38**±4.4	**40.9N**±.34	**28.8E**±.14	**10**		**4**	**1-1**
ISK	X	11 14 02 38.1	40.92N	28.76E	10	2.7D		¶97x1901
ISC		Poorly determined						
ISC	**X**	**11 22 26 18**±1.4	**40.5N**±.25	**28.79E**±.083	**9**		**5**	**0-1**
ISK	X	11 22 26 17.8	40.47N	28.82E	9	2.4D		¶97x1949
ISC	**X**	**11 23 25 49**±1.3	**40.4N**±.37	**28.8E**±.13	**24**±25		**5**	**0-1**
ISK	X	11 23 25 49.3	40.47N	28.82E	5	2.5D		¶97x1954
NEIC	X	11 23 25 49.4	40.42N	28.82E	10			

ISC		Poorly determined								
NEIC		Poor solution.								
ISC	**X**	**11 23 35 33**±6.5	**39.8N**±.49	**28.8E**±.15	**10**		**4**	**1-1**		
ISK	X	11 23 35 36.4	40.21N	28.85E	10	2.5D		¶97x1956		
ISC		Poorly determined								
ISC	**X**	**12 05 06 11.1**±.84	**38.53N**±.066	**43.28E**±.056	**60**±8.2	**4.3b**	**47**	**0-95**		
EIDC	X	12 05 06 04.8	38.5N	43.3E	0	4.2b,4.0L		¶97x1991		
ISK	X	12 05 06 07.7	38.47N	43.39E	12	4.2D				
BJI	X	12 05 06 09.2	38.50N	43.40E	44	4.9b				
NEIC	X	12 05 06 09.2	38.47N	43.36E	45	4.7b				
ISC	**X**	**12 07 23 15.3**±.79	**38.81N**±.059	**27.4E**±.14	**10**		**10**	**0-2**		
ISK	X	12 07 23 14.6	38.81N	27.42E	6	3.0D		¶97x2005		
NEIC	X	12 07 23 15.0	38.84N	27.30E	10					
NEIC		Single network solution.								
ISC	**X**	**12 08 05 07**±1.4	**39.1N**±.16	**27.9E**±.32	**7**		**4**	**1-1**		
ISK	X	12 08 05 07.9	39.17N	27.69E	7	2.7D		¶97x2010		
ISC		Poorly determined								
ISC	**X**	**12 08 40 01**±1.3	**41.64N**±.099	**28.0E**±.11	**3**±12		**8**	**0-1**		
ISK	X	12 08 40 00.5	41.68N	28.05E	9	2.8D		¶97x2014		
ISC	**X**	**12 12 43 41**±1.1	**39.07N**±.093	**27.6E**±.17	**10**		**5**	**1-1**		
ISK	X	12 12 43 41.4	39.07N	27.59E	10	2.6D		¶97x2044		
ISC	**X**	**12 13 59 11.6**±.94	**39.15N**±.083	**27.6E**±.14	**10**		**7**	**1-2**		
ISK	X	12 13 59 12.0	39.18N	27.54E	10	2.8D		¶97x2052		
ISK	**X**	**12 14 11 50.4**	**38.86N**	**27.71E**	**10**	**2.7D**		¶97x2055		
ISK	**X**	**12 20 25 05.9**	**39.39N**	**36.11E**	**10**	**3.1D**		¶97x2096		
ISK	**X**	**12 20 52 09.6**	**39.33N**	**36.40E**	**10**	**3.0D**		¶97x2101		
ISC	**X**	**13 01 58 32**±1.1	**37.1N**±.14	**36.5E**±.14	**27**±27		**13**	**1-4**		
ISK	X	13 01 58 30.3	37.26N	36.34E	10	3.8D		¶97x2141		
ATH	**X**	**13 02 20 00.1**	**39.71N**	**27.90E**	**10**	**3.4D**		¶97x2145		
ISC	**X**	**13 07 18 03**±14	**39.7N**±.80	**29.4E**±.87	**6**		**4**	**1-1**		
ISK	X	13 07 18 04.1	39.69N	29.29E	6	2.6D		¶97x2173		
ISC		Poorly determined								
ISC	**X**	**13 08 15 03**±1.3	**40.0N**±.29	**26.5E**±.29	**5**		**4**	**0-1**		
ISK	X	13 08 15 02.4	39.85N	26.55E	5	2.8D		¶97x2187		
ISC		Poorly determined								
ISK	**X**	**13 09 03 52.3**	**40.46N**	**29.29E**	**10**	**2.5D**		¶97x2194		
ISK	**X**	**13 09 15 16.4**	**38.97N**	**27.59E**	**10**	**2.6D**		¶97x2196		
ISK	**X**	**13 10 18 49.0**	**39.00N**	**26.33E**	**10**	**2.9D**		¶97x2201		
ISC	**X**	**13 13 03 11**±1.3	**38.4N**±.12	**37.2E**±.11	**10**		**6**	**1-2**		
ISK	X	13 13 03 11.4	38.42N	37.26E	10	2.9D		¶97x2226		
ISK	**X**	**13 15 53 51.6**	**39.61N**	**37.10E**	**5**	**2.9D**		¶97x2246		
ISK	**X**	**13 17 43 31.2**	**40.95N**	**28.32E**	**10**	**2.7D**		¶97x2261		
ISK	**X**	**14 07 49 14.5**	**39.68N**	**29.52E**	**10**	**2.5D**		¶97x2357		
ISC	**X**	**14 08 08 43**±1.1	**39.07N**±.095	**27.6E**±.17	**13**		**5**	**1-1**		
ISK	X	14 08 08 43.4	39.13N	27.59E	13	2.7D		¶97x2361		
ISK	**X**	**14 08 34 22.0**	**39.58N**	**29.65E**	**10**	**2.6D**		¶97x2362		
ISC	**X**	**14 10 05 53**±2.0	**37.5N**±.21	**37.7E**±.18	**10**		**5**	**1-3**		
ISK	X	14 10 05 52.3	37.49N	37.76E	10	3.8D		¶97x2372		
ISC		Poorly determined								
ISK	**X**	**14 10 38 54.8**	**39.73N**	**28.90E**	**8**	**2.6D**		¶97x2379		
ISC	**X**	**14 11 44 30**±1.3	**39.84N**±.085	**28.86E**±.099	**10**		**6**	**0-1**		
NEIC	X	14 11 44 29.5	39.81N	28.94E	10			¶97x2393		
ISK	X	14 11 44 30.2	39.86N	28.85E	6	2.6D				
NEIC		Single network solution.								
ISC	**X**	**14 11 45 36**±1.8	**39.9N**±.16	**28.9E**±.20	**29**±19		**5**	**0-1**		
ISK	X	14 11 45 35.7	39.88N	28.82E	10	2.6D		¶97x2394		
NEIC	X	14 11 45 36.2	39.93N	28.85E	10					
ISC		Poorly determined								
NEIC		Poor solution.								
ISK	**X**	**14 11 59 33.2**	**39.67N**	**29.45E**	**10**	**2.5D**		¶97x2398		
ISC	**X**	**14 12 39 10**±2.0	**39.5N**±.22	**31.4E**±.25	**10**		**6**	**2-4**		
ISK	X	14 12 39 37.0	40.07N	29.46E	10	2.5D		¶97x2405		
ISC	**X**	**14 14 37 59**±1.1	**39.2N**±.10	**27.7E**±.20	**14**		**5**	**1-1**		
ISK	X	14 14 37 59.1	39.31N	27.61E	14	2.6D		¶97x2424		
ISC	**X**	**14 17 03 28**±1.1	**38.8N**±.12	**32.6E**±.12	**13**		**5**	**2-3**		
ISK	X	14 17 03 27.4	38.77N	32.65E	13	3.6D		¶97x2452		
ISC	**X**	**14 17 20 04.5**±.76	**38.31N**±.058	**36.6E**±.11	**10**		**8**	**1-3**		
ISK	X	14 17 20 03.9	38.32N	36.56E	8	3.7D		¶97x2454		
NEIC	X	14 17 20 04.6	38.31N	36.54E	10					
NEIC		Poor solution.								
ISC	**X**	**14 19 05 33**±12	**39.5N**±.78	**27.6E**±.18	**15**±63		**5**	**1-2**		
ISK	X	14 19 05 32.9	39.50N	27.62E	12	2.8D		¶97x2473		
ISC		Poorly determined								
ISK	**X**	**15 06 45 38.0**	**39.84N**	**29.40E**	**10**	**2.4D**		¶97x2580		
ISC	**X**	**15 08 07 14.8**±.71	**37.30N**±.051	**36.34E**±.078	**10**		**10**	**1-4**		
ISK	X	15 08 07 15.0	37.28N	36.31E	10	3.6D		¶97x2588		
ISK	**X**	**15 12 34 13.6**	**37.24N**	**36.32E**	**9**	**3.5D**		¶97x2632		
ISK	**X**	**15 14 19 33.3**	**39.66N**	**29.48E**	**10**	**2.6D**		¶97x2653		
ISK	**X**	**15 15 01 07.1**	**39.68N**	**29.51E**	**10**	**2.6D**		¶97x2662		
ISK	**X**	**15 15 25 19.0**	**39.33N**	**29.01E**	**13**	**2.7D**		¶97x2666		
ISK	**X**	**16 01 46 23.0**	**37.16N**	**31.79E**	**9**	**3.5D**		¶97x2765		
ISC	**X**	**16 12 30 55**±3.8	**40.3N**±.26	**29.4E**±.26	**5**		**4**	**0-1**		
ISK	X	16 12 30 56.0	40.34N	29.41E	5	2.7D		¶97x2836		
ISC		Poorly determined								
ISC	**X**	**17 02 25 25.8**±.53	**37.29N**±.045	**36.21E**±.065	**10**		**18**	**1-5**		
ISK	X	17 02 25 24.6	37.36N	36.19E	10	3.9D		¶97x2920		
ISK	**X**	**17 03 06 22.5**	**40.30N**	**29.47E**	**5**	**2.5D**		¶97x2924		
ISC	**X**	**17 11 12 20.1**±.97	**40.6N**±.14	**31.6E**±.11	**33**		**7**	**0-2**		
								¶97x2971		
ISC	**X**	**17 11 20 09.0**±.88	**38.96N**±.060	**29.9E**±.14	**6**		**8**	**1-2**		
ISK	X	17 11 20 08.9	38.96N	29.90E	6	2.8D		¶97x2975		
ISC	**X**	**17 15 03 35.7**±.98	**40.03N**±.086	**38.4E**±.12	**10**		**12**	**1-4**		
ISK	X	17 15 03 33.6	40.00N	38.34E	10	3.3D		¶97x3014		
ISC	**X**	**18 09 18 52.9**±.74	**39.80N**±.027	**28.67E**±.028	**5**±5.8	**3.9b**,3.4s	**92**	**0-43**		
THE	X	18 09 18 46.0	39.9N	29.4E	5	4.4L		¶97x3127		
ISK	X	18 09 18 53.3	39.81N	28.69E	10	4.0D				
EIDC	X	18 09 18 53.7	39.6N	28.6E	0	4.0b,3.6s				
NEIC	X	18 09 18 55.1	39.90N	28.61E	10	3.9b				
ATH	X	18 09 18 59.3	40.02N	28.04E	5	4.5L				
NEIC		Less reliable solution.								
ISC	**X**	**18 09 23 00**±1.3	**39.81N**±.095	**28.6E**±.19	**7**±17		**5**	**0-1**		
ISK	X	18 09 23 00.0	39.79N	28.61E	11	2.7D		¶97x3128		
ISC		Poorly determined								
ISC	**X**	**18 09 24 53**±1.3	**39.8N**±.10	**28.7E**±.15	**4**±19		**6**	**0-1**		
ISK	X	18 09 24 53.1	39.80N	28.63E	14	2.7D		¶97x3129		
ISC		Poorly determined								
ISC	**X**	**18 09 52 57.5**±.87	**39.81N**±.051	**28.73E**±.077	**5**±9.1		**13**	**0-2**		
ISK	X	18 09 52 57.4	39.80N	28.70E	7	2.9D		¶97x3132		
ISC	**X**	**18 10 01 55.0**±.98	**39.82N**±.041	**28.64E**±.061	**6**±8.6		**23**	**0-4**		
ISK	X	18 10 01 54.5	39.82N	28.75E	12	3.3D		¶97x3133		
ATH	X	18 10 01 59.3	40.18N	28.03E	10	3.7D				
ISC	**X**	**18 10 06 31**±1.2	**39.79N**±.097	**28.6E**±.14	**14**±12		**8**	**0-1**		
ISK	X	18 10 06 31.2	39.77N	28.54E	10	2.8D		¶97x3134		
ISC	**X**	**18 10 18 27.0**±.93	**39.81N**±.037	**28.62E**±.058	**7**±8.1		**32**	**0-5**		
THE	X	18 10 18 18.6	40.5N	30.0E	15	4.0L		¶97x3137		
ISK	X	18 10 18 27.3	39.78N	28.54E	13	3.6D				
ATH	X	18 10 18 35.6	39.90N	27.86E	10	3.9D				
ISK	**X**	**18 10 28 36.1**	**39.85N**	**28.64E**	**5**	**2.6D**		¶97x3141		
ISC	**X**	**18 10 39 39**±1.2	**40.00N**±.086	**28.7E**±.12	**10**		**9**	**0-2**		
ISK	X	18 10 39 36.1	39.81N	28.59E	10	2.8D		¶97x3143		
ISC	**X**	**18 10 42 57**±1.7	**39.8N**±.20	**28.5E**±.38	**12**±21		**5**	**0-1**		
ISK	X	18 10 42 56.8	39.79N	28.58E	11	2.7D		¶97x3144		
ISC		Poorly determined								
ISK	**X**	**18 11 05 48.1**	**39.79N**	**28.65E**	**5**	**2.5D**		¶97x3146		
ISK	**X**	**18 12 23 10.1**	**39.10N**	**27.67E**	**10**	**2.7D**		¶97x3155		
ISC	**X**	**18 12 25 18**±2.1	**39.83N**±.093	**28.7E**±.33	**9**		**4**	**0-1**		
ISK	X	18 12 25 17.1	39.83N	28.67E	9	2.7D		¶97x3157		
ISC		Poorly determined								
ISC	**X**	**18 12 27 46**±1.6	**39.91N**±.075	**28.76E**±.096	**5**±13		**13**	**0-2**		
ISK	X	18 12 27 44.7	39.82N	28.69E	8	2.9D		¶97x3158		
ISC	**X**	**18 13 01 27**±1.2	**39.85N**±.076	**28.7E**±.11	**0**±14		**7**	**0-2**		
ISK	X	18 13 01 27.1	39.80N	28.61E	12	2.8D		¶97x3160		
ISC	**X**	**18 13 13 27**±3.0	**39.87N**±.092	**28.8E**±.14	**1**±22		**9**	**1-2**		
ISK	X	18 13 13 27.1	39.84N	28.68E	6	2.9D		¶97x3161		
ISC	**X**	**18 13 20 00.9**±.54	**39.86N**±.048	**28.66E**±.059	**10**		**17**	**0-3**		
ISK	X	18 13 19 59.4	39.83N	28.68E	10	3.1D		¶97x3162		
ISK	**X**	**18 13 22 29.3**	**39.81N**	**28.63E**	**5**	**2.6D**		¶97x3164		
ISK	**X**	**18 13 24 13.5**	**39.80N**	**28.67E**	**5**	**2.5D**		¶97x3165		
ISC	**X**	**18 13 45 56**±1.4	**39.8N**±.11	**28.7E**±.17	**8**±17		**6**	**0-1**		
ISK	X	18 13 45 55.4	39.79N	28.68E	15	2.8D		¶97x3169		
ISC		Poorly determined								
ISK	**X**	**18 14 00 10.3**	**39.82N**	**28.64E**	**5**	**2.4D**		¶97x3171		
ISC	**X**	**18 14 01 41**±1.1	**39.85N**±.059	**28.76E**±.096	**2**±11		**10**	**0-2**		
ISK	X	18 14 01 39.6	39.84N	28.79E	10	2.8D		¶97x3172		
ISC	**X**	**18 14 18 05.2**±.54	**39.87N**±.045	**28.72E**±.059	**7**		**18**	**0-3**		
ISK	X	18 14 18 04.2	39.83N	28.71E	7	3.0D		¶97x3174		
ISC	**X**	**18 14 32 23**±1.5	**39.9N**±.10	**28.8E**±.17	**5**		**5**	**1-2**		
ISK	X	18 14 32 21.9	39.83N	28.71E	5	2.8D		¶97x3178		
ISC		Poorly determined								
ISK	**X**	**18 15 49 45.5**	**36.60N**	**34.71E**	**33**	**3.5D**		¶97x3189		
ISC	**X**	**19 00 16 42.0**±.81	**39.94N**±.066	**28.63E**±.075	**7**		**14**	**0-3**		
ISK	X	19 00 16 40.8	39.89N	28.63E	7	3.1D		¶97x3264		
ISC	**X**	**19 10 41 05.7**±.78	**39.80N**±.059	**28.6E**±.10	**12**		**14**	**0-3**		
ISK	X	19 10 41 04.9	39.80N	28.72E	12	2.9D		¶97x3333		
ISK	**X**	**19 11 47 49.8**	**39.94N**	**28.39E**	**5**	**2.6D**		¶97x3342		
ISK	**X**	**19 17 24 52.6**	**40.58N**	**28.74E**	**10**	**2.6D**		¶97x3373		
ISC	**X**	**20 02 59 36.5**±.96	**39.45N**±.050	**26.00E**±.063	**8**±8.6		**22**	**0-4**		
ATH	X	20 02 59 36.6	39.53N	26.20E	10			¶97x3422		
THE	X	20 02 59 37.0	39.4N	26.0E	1					
ISK	X	20 02 59 38.4	39.41N	26.33E	9	3.2D				
ISC	**X**	**20 04 06 43.6**±.96	**39.87N**±.089	**28.60E**±.071	**5**		**12**	**0-3**		
ISK	X	20 04 06 42.3	39.82N	28.73E	5	3.3D		¶97x3432		
ISC	**X**	**20 08 02 32**±1.5	**39.86N**±.099	**28.9E**±.16	**7**		**4**	**0-1**		
ISK	X	20 08 02 31.4	39.85N	28.80E	7	2.6D		¶97x3464		
ISC		Poorly determined								
ISC	**X**	**20 09 13 33.2**±.61	**39.89N**±.053	**28.66E**±.058	**10**		**18**	**0-3**		
ISK	X	20 09 13 32.0	39.85N	28.68E	10	3.0D		¶97x3470		
THE	**X**	**20 10 24 50.1**	**40.4N**	**26.1E**	**3**			¶97x3480		
ISC	**X**	**20 18 30 08**±2.1	**39.8N**±.12	**28.7E**±.14	**5**±15		**9**	**0-2**		
ISK	X	20 18 30 09.5	39.88N	28.71E	14	2.8D		¶97x3543		
ISK	**X**	**20 18 34 18.6**	**37.93N**	**29.25E**	**5**	**3.0D**		¶97x3544		
ISC	**X**	**21 04 04 22**±1.6	**39.87N**±.095	**28.8E**±.23	**7**		**7**	**1-2**		
ISK	X	21 04 04 21.6	39.83N	28.68E	7	2.9D		¶97x3598		
ISC	**X**	**21 04 33 06**±1.3	**39.88N**±.062	**28.64E**±.071	**4**±10		**15**	**0-3**		
ISK	X	21 04 33 05.8	39.91N	28.73E	9	3.1D		¶97x3604		
ISC	**X**	**21 05 08 54**±1.5	**39.83N**±.075	**28.7E**±.19	**8**		**7**	**0-1**		
ISK	X	21 05 08 53.6	39.82N	28.75E	8	2.8D		¶97x3611		
ISC	**X**	**21 05 11 48**±1.1	**40.70N**±.085	**29.83E**±.065	**8**±11		**12**	**0-2**		
ISK	X	21 05 11 47.4	40.71N	29.83E	8	2.9D		¶97x3612		
ISK	**X**	**21 09 29 40.1**	**40.69N**	**29.79E**	**14**	**2.6D**		¶97x3631		
ISC	**X**	**21 10 49 33.7**±.72	**40.71N**±.031	**30.43E**±.028	**11**±5.5	**4.2b**,3.3s	**91**	**0-98**		
NEIC	X	21 10 49 32.6	40.68N	30.56E	10	4.1b		¶97x3639		
EIDC	X	21 10 49 32.6	40.8N	30.6E	0	4.1b,3.6s				
ISK	X	21 10 49 33.5	40.70N	30.42E	11	4.1D				
ISK	**X**	**21 11 37 42.9**	**39.79N**	**28.65E**	**5**	**2.4D**		¶97x3651		
ISK	**X**	**21 13 53 28.5**	**41.30N**	**28.33E**	**10**	**2.7D**		¶97x3658		
ISK	**X**	**21 14 52 42.4**	**39.82N**	**28.68E**	**5**	**2.7D**		¶97x3667		
ISC	**X**	**21 15 28 37.1**±.75	**39.83N**±.052	**28.6E**±.10	**10**		**12**	**0-3**		
ISK	X	21 15 28 36.5	39.83N	28.70E	10	3.0D		¶97x3671		
ISC	**X**	**22 07 49 54**±1.6	**40.5N**±.26	**28.6E**±.13	**14**		**4**	**0-1**		
ISK	X	22 07 49 53.7	40.42N	28.60E	14	2.7D		¶97x3772		
ISC		Poorly determined								
ISC	**X**	**22 08 56 13**±9.5	**39.7N**±.48	**29.5E**±.47	**11**		**4**	**1-1**		
ISK	X	22 08 56 13.0	39.64N	29.41E	11	2.6D		¶97x3779		
ISC		Poorly determined								
ISC	**X**	**22 10 24 50**±1.2	**40.7N**±.12	**30.47E**±.069	**2**±14		**10**	**0-2**		
ISK	X	22 10 24 49.5	40.64N	30.51E	10	3.0D		¶97x3792		
ISK	**X**	**22 11 13 35.8**	**39.81N**	**28.66E**	**5**	**2.5D**		¶97x3797		
ISC	**X**	**22 11 23 08**±1.4	**39.71N**±.084	**29.3E**±.14	**10**		**5**	**1-1**		
ISK	X	22 11 23 06.7	39.67N	29.42E	10	2.7D		¶97x3800		
ISK	**X**	**22 12 31 41.1**	**36.63N**	**29.10E**	**33**	**3.0D**		¶97x3811		
ISK	**X**	**22 12 44 06.2**	**36.51N**	**29.06E**	**33**	**2.9D**		¶97x3813		
ISC	**X**	**22 13 09 20**±4.6	**39.8N**±.29	**29.2E**±.42	**10**		**5**	**1-1**		
ISK	X	22 13 09 19.3	39.73N	29.37E	10	2.5D		¶97x3818		
ISK	**X**	**22 14 40 52.0**	**39.63N**	**29.39E**	**5**	**2.7D**		¶97x3834		
ISC	**X**	**22 15 25 35.4**±.83	**40.73N**±.094	**30.11E**±.050	**4**±9.0		**14**	**1-2**		
ISK	X	22 15 25 35.1	40.73N	30.11E	9	2.9D		¶97x3839		
ISC	**X**	**22 15 59 49.0**±.60	**40.76N**±.076	**30.12E**±.046	**9**		**20**	**1-3**		
ISK	X	22 15 59 47.9	40.81N	30.16E	9	3.2D		¶97x3843		
ISC	**X**	**22 16 45 46.3**±.93	**40.6N**±.18	**30.14E**±.072	**10**		**8**	**1-2**		
ISK	X	22 16 45 42.8	40.50N	30.37E	10	2.7D		¶97x3850		
ISC	**X**	**22 19 51 34**±8.7	**40.6N**±.36	**30.1E**±.68	**12**		**4**	**1-2**		
ISK	X	22 19 51 30.3	40.66N	30.30E	12	2.6D		¶97x3877		
ISC		Poorly determined								
ISC	**X**	**22 23 09 57.7**±.68	**40.39N**±.057	**28.88E**±.053	**4**±9.2		**14**	**0-3**		
ISK	X	22 23 09 57.5	40.39N	28.90E	6	2.9D		¶97x3893		
ISC	**X**	**22 23 28 53**±1.3	**38.0N**±.22	**42.64E**±.082	**10**		**9**	**1-5**		
ISK	X	22 23 28 51.5	38.02N	42.57E	10	3.7D		¶97x3895		
ISK	**X**	**23 08 53 23.8**	**39.61N**	**29.52E**	**10**	**2.6D**		¶97x3952		
ISC	**X**	**23 09 16 38**±1.1	**39.1N**±.13	**27.7E**±.27	**10**		**5**	**1-2**		
ISK	X	23 09 16 37.4	39.02N	27.67E	10	2.8D		¶97x3956		

Agency		Origin Time		ϕ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
ISK	**X**	**23 09 43 42.5**		**40.89N**	**35.92E**	**10**	**2.9D**		**¶97x3960**
ISC	**X**	**23 10 19 28**±1.6		**39.2N**±.19	**27.7E**±.33	**12**		**4**	**1-2**
ISK	X	23 10 19 28.3		39.25N	27.73E	12	2.8D		**¶97x3969**
ISC		Poorly determined							
ISC	**X**	**23 11 18 48.1**±.41		**40.77N**±.041	**27.41E**±.043	**12**		**30**	**0-4**
ISK	X	23 11 18 47.6		40.77N	27.40E	12	3.2D		**¶97x3980**
ATH	X	23 11 18 48.7		40.90N	27.43E	4			
ISK	**X**	**23 11 22 38.0**		**39.25N**	**29.08E**	**10**	**2.7D**		**¶97x3982**
ISC	**X**	**23 11 28 05**±1.8		**39.2N**±.18	**27.7E**±.33	**10**		**4**	**1-2**
ISK	X	23 11 28 03.9		39.28N	27.67E	10	2.7D		**¶97x3985**
ISC		Poorly determined							
ISC	**X**	**23 11 32 41**±6.3		**40.0N**±.54	**28.8E**±.12	**6**		**4**	**0-1**
ISK	X	23 11 32 40.6		39.99N	28.84E	6	2.6D		**¶97x3986**
ISC		Poorly determined							
ISK	**X**	**23 12 36 11.4**		**39.22N**	**27.76E**	**10**	**2.7D**		**¶97x3996**
ISC	**X**	**23 12 56 14**±1.1		**40.7N**±.13	**30.41E**±.058	**5**±12		**11**	**0-2**
ISK	X	23 12 56 13.2		40.73N	30.46E	10	2.8D		**¶97x4000**
ISC	**X**	**23 14 00 40.2**±.49		**39.37N**±.038	**29.10E**±.057	**5**		**26**	**0-4**
ISK	X	23 14 00 39.1		39.33N	29.09E	5	3.2D		**¶97x4008**
ATH	X	23 14 00 47.9		39.47N	28.49E	10	3.6D		
ISK	**X**	**23 16 06 37.3**		**38.71N**	**41.33E**	**10**	**4.0D**		**¶97x4023**
ISC	**X**	**23 20 50 22.3**±.58		**40.64N**±.090	**30.42E**±.046	**10**		**17**	**0-3**
ISK	X	23 20 50 21.0		40.67N	30.44E	10	3.0D		**¶97x4062**
ISC	**X**	**24 00 11 13.4**±.36		**40.73N**±.038	**30.09E**±.036	**5**		**47**	**0-6**
ISK	X	24 00 11 12.6		40.74N	30.14E	5	3.5D		**¶97x4088**
ATH	X	24 00 11 44.6		40.36N	27.06E	10	3.7D		
ISK	**X**	**24 07 01 59.4**		**39.15N**	**27.44E**	**10**	**2.8D**		**¶97x4115**
ISK	**X**	**24 08 48 33.8**		**39.13N**	**27.67E**	**10**	**2.7D**		**¶97x4131**
ISC	**X**	**24 10 47 26**±2.4		**40.8N**±.28	**29.9E**±.15	**4**±16		**7**	**0-2**
ISK	X	24 10 47 26.0		40.67N	30.01E	10	2.6D		**¶97x4150**
ISK	**X**	**24 11 40 40.1**		**40.05N**	**29.20E**	**5**	**2.6D**		**¶97x4156**
ISC	**X**	**24 13 47 10.3**±.62		**40.33N**±.056	**29.09E**±.052	**6**		**15**	**0-2**
ISK	X	24 13 47 10.2		40.33N	29.12E	6	2.8D		**¶97x4177**
ISC	**X**	**24 14 00 27.3**±.60		**40.70N**±.086	**30.12E**±.048	**7**		**15**	**1-2**
ISK	X	24 14 00 27.1		40.74N	30.12E	7	2.9D		**¶97x4179**
ISK	**X**	**24 15 00 53.9**		**39.19N**	**27.44E**	**10**	**2.7D**		**¶97x4186**
ISC	**X**	**24 21 31 13**±7.1		**39.9N**±.52	**28.74E**±.098	**8**		**5**	**0-1**
ISK	X	24 21 31 10.9		39.73N	28.75E	8	2.7D		**¶97x4227**
ISC	**X**	**25 00 38 42.1**±.83		**40.45N**±.024	**26.39E**±.027	**10**±6.7	**3.9b**	**90**	**1-65**
ISK	X	25 00 38 41.8		40.49N	26.43E	10	4.1D		**¶97x4243**
ATH	X	25 00 38 43.2		40.58N	26.56E	36	4.2L		
THE	X	25 00 38 44.0		40.4N	26.3E	9	4.1L		
NEIC	X	25 00 38 44.7		40.49N	26.33E	30	4.2b		
EIDC	X	25 00 38 49.2		41.1N	25.7E	0	3.7b,3.7L		
NEIC	M_{L}4.1(THE).								
ISK	**X**	**25 08 36 36.7**		**37.17N**	**28.76E**	**6**	**3.0D**		**¶97x4297**
ISC	**X**	**26 20 29 34**±7.9		**39.8N**±.55	**28.7E**±.10	**6**		**5**	**1-1**
ISK	X	26 20 29 34.8		39.86N	28.72E	6	2.6D		**¶97x4522**
ISC	**X**	**27 08 33 42**±3.0		**40.2N**±.46	**28.7E**±.10	**10**		**4**	**0-1**
ISK	X	27 08 33 38.3		39.90N	28.67E	10	2.5D		**¶97x4591**
ISC		Poorly determined							
ISK	**X**	**27 08 40 25.6**		**39.63N**	**29.46E**	**10**	**2.5D**		**¶97x4593**
ISK	**X**	**27 10 31 05.4**		**40.84N**	**38.29E**	**7**	**3.0D**		**¶97x4599**
ISK	**X**	**27 10 53 56.6**		**39.09N**	**27.62E**	**10**	**2.7D**		**¶97x4601**
ISK	**X**	**27 11 33 25.5**		**36.13N**	**29.00E**	**33**	**3.3D**		**¶97x4604**
ISC	**X**	**27 15 52 22**±7.8		**39.8N**±.54	**28.8E**±.12	**10**±17		**6**	**1-1**
ISK	X	27 15 52 24.0		39.91N	28.71E	10	2.7D		**¶97x4631**
ISC	**X**	**27 18 06 07**±1.1		**40.7N**±.15	**30.45E**±.070	**5**		**7**	**0-1**
ISK	X	27 18 06 05.2		40.80N	30.48E	5	2.5D		**¶97x4642**
ISC	**X**	**28 03 38 26.9**±.97		**38.57N**±.068	**30.6E**±.18	**10**		**6**	**1-2**
ISK	X	28 03 38 24.0		38.65N	30.77E	10	2.8D		**¶97x4697**
ISK	**X**	**28 04 43 19.5**		**39.70N**	**28.70E**	**10**	**2.6D**		**¶97x4707**
ISK	**X**	**28 06 26 16.3**		**40.52N**	**27.43E**	**7**	**2.6D**		**¶97x4720**
ISC	**X**	**28 08 55 51**±1.1		**40.84N**±.065	**28.1E**±.13	**20**±23		**8**	**0-1**
ISK	X	28 08 55 50.3		40.86N	28.10E	8	2.7D		**¶97x4735**
ISK	**X**	**28 15 00 26.3**		**40.03N**	**37.77E**	**10**	**3.0D**		**¶97x4775**
ISC	**X**	**28 15 12 12**±1.6		**38.9N**±.33	**27.9E**±.50	**10**		**4**	**1-2**
ISK	X	28 15 12 11.1		39.06N	27.60E	10	2.7D		**¶97x4778**
ISC		Poorly determined							
ISK	**X**	**28 15 48 15.5**		**39.12N**	**27.64E**	**10**	**2.7D**		**¶97x4784**
ISC	**X**	**28 20 20 07.5**±.74		**38.36N**±.063	**36.6E**±.11	**10**		**14**	**1-4**
ISK	X	28 20 20 04.9		38.37N	36.51E	10	3.6D		**¶97x4810**
ISC	**X**	**28 21 30 35**±1.4		**37.2N**±.17	**31.3E**±.17	**10**		**4**	**1-2**
ISK	X	28 21 30 35.8		37.28N	31.36E	10	3.1D		**¶97x4818**
ISC		Poorly determined							
ISC	**X**	**28 23 22 54.0**±.52		**39.20N**±.044	**29.35E**±.072	**10**		**19**	**1-3**
ISK	X	28 23 22 51.6		39.16N	29.36E	10	3.1D		**¶97x4830**
ISC	**X**	**29 12 55 39.4**±.84		**40.08N**±.095	**29.52E**±.066	**7**		**9**	**0-2**
ISK	X	29 12 55 39.3		40.08N	29.60E	7	2.7D		**¶97x4913**
ISC	**X**	**30 04 05 35**±1.5		**38.76N**±.067	**43.53E**±.066	**14**±10	**4.3b,3.5s**	**45**	**0-69**
ISK	X	30 04 05 33.6		38.81N	43.26E	10	4.4D		**¶97x4987**
EIDC	X	30 04 05 34.0		38.7N	43.6E	0	4.2b,3.5s		
NEIC	X	30 04 05 37.3		38.72N	43.51E	33	4.4b		
MOS	X	30 04 05 38.0		38.9N	43.5E	33	4.6b		
NEIC	Less reliable solution.								
ISC	**X**	**30 05 30 11.3**±.49		**38.93N**±.043	**27.92E**±.058	**8**		**20**	**1-4**
ISK	X	30 05 30 11.5		38.96N	27.78E	8	3.3D		**¶97x4996**
NEIC	X	30 05 30 11.9		38.94N	27.78E	10			
ATH	X	30 05 30 12.7		38.95N	27.95E	15	3.7D		
THE	X	30 05 30 14.0		38.9N	27.8E	13			
NEIC	Single network solution.								
ISC	**X**	**31 05 21 31.0**±.69		**40.51N**±.071	**34.47E**±.068	**10**		**14**	**0-3**
ISK	X	31 05 21 30.8		40.50N	34.64E	10	3.3D		**¶97x5133**
ISC	**X**	**31 09 12 21**±1.6		**40.6N**±.26	**30.44E**±.062	**10**		**9**	**1-2**
ISK	X	31 09 12 19.3		40.77N	30.49E	10	2.6D		**¶97x5158**
ISK	**X**	**31 09 56 53.5**		**39.22N**	**27.69E**	**10**	**2.6D**		**¶97x5162**
ISK	**X**	**31 10 23 18.4**		**39.16N**	**27.53E**	**10**	**2.7D**		**¶97x5164**
ISC	**X**	**31 10 54 07**±4.6		**40.4N**±.24	**27.8E**±.35	**10**		**4**	**0-1**
ISK	X	31 10 54 06.7		40.42N	27.88E	10	2.7D		**¶97x5166**
ISC		Poorly determined							
ISK	**X**	**31 12 19 26.6**		**39.22N**	**27.36E**	**10**	**2.7D**		**¶97x5176**
ISC	**X**	**31 12 20 46**±1.3		**40.2N**±.14	**28.8E**±.13	**29**±21		**5**	**0-1**
ISK	X	31 12 20 45.5		40.22N	28.80E	10	2.5D		**¶97x5177**
ISC		Poorly determined							
ISK	**X**	**31 12 45 58.5**		**39.15N**	**27.43E**	**10**	**2.7D**		**¶97x5183**
ISK	**X**	**31 15 09 23.5**		**39.18N**	**27.88E**	**5**	**2.6D**		**¶97x5195**
ISC	**X**	**31 15 09 58**±1.4		**39.2N**±.15	**28.0E**±.26	**6**		**4**	**1-1**
ISK	X	31 15 09 58.0		39.17N	27.98E	6	2.6D		**¶97x5196**
ISC		Poorly determined							
ISC	**XI**	**01 09 03 51**±2.4		**40.6N**±.19	**35.3E**±.20	**11**±30		**6**	**1-2**
ISK	XI	01 09 03 50.8		40.56N	35.29E	8	3.0D		**¶97xi0048**
ISC		Poorly determined							
ISC	**XI**	**01 10 03 50**±2.0		**39.2N**±.13	**27.4E**±.40	**10**		**4**	**1-1**
ISK	XI	01 10 03 48.3		39.22N	27.31E	10	2.7D		**¶97xi0059**
ISC		Poorly determined							
ISC	**XI**	**01 10 25 58**±1.6		**40.8N**±.11	**27.4E**±.12	**15**±17		**6**	**1-1**
ISK	XI	01 10 25 57.5		40.77N	27.48E	10	2.9D		**¶97xi0065**
ISK	**XI**	**01 12 36 17.9**		**39.62N**	**29.54E**	**5**	**2.5D**		**¶97xi0079**
ISC	**XI**	**01 13 50 54**±1.6		**39.31N**±.062	**39.75E**±.061	**22**±15	**4.1b**,3.5s	**41**	**1-55**
ISK	XI	01 13 50 51.0		39.27N	39.75E	10	4.1D		**¶97xi0091**
NEIC	XI	01 13 50 52.8		39.48N	39.65E	10	4.2b		
EIDC	XI	01 13 50 53.2		39.5N	39.6E	0	3.9b,3.5s		
NEIC	Less reliable solution.								
ISC	**XI**	**01 16 12 11**±1.2		**40.85N**±.089	**28.7E**±.11	**8**		**4**	**0-1**
ISK	XI	01 16 12 11.0		40.86N	28.69E	8	2.8D		**¶97xi0103**
ISC		Poorly determined							
ISC	**XI**	**02 00 25 58.4**±.30		**38.77N**±.045	**43.34E**±.043	**10**	**4.5b,3.6s**	**115**	**0-102**
ISK	XI	02 00 25 58.5		38.77N	43.44E	10	4.4D		**¶97xi0166**
BJI	XI	02 00 25 59.7		37.78N	43.52E	31	4.7b		
NEIC	XI	02 00 26 01.0		38.61N	43.37E	39	4.5b		
EIDC	XI	02 00 26 04.9		38.8N	43.3E	50	4.0b,3.6s		
ISC	**XI**	**02 10 31 48.7**±.77		**40.85N**±.055	**27.76E**±.058	**5**±8.4		**16**	**0-4**
ISK	XI	02 10 31 48.8		40.83N	27.78E	11	3.0D		**¶97xi0237**
ISC	**XI**	**02 14 01 35.3**±.93		**40.85N**±.076	**27.78E**±.073	**11**±11		**11**	**0-2**
ISK	XI	02 14 01 35.2		40.82N	27.78E	10	2.9D		**¶97xi0272**
ISC	**XI**	**02 18 46 12**±4.1		**40.8N**±.15	**27.8E**±.43	**10**		**4**	**0-1**
ISK	XI	02 18 46 10.6		40.77N	27.74E	10	2.6D		**¶97xi0318**
ISC		Poorly determined							
ISC	**XI**	**02 22 11 36.1**±.67		**40.23N**±.075	**42.2E**±.11	**33**	**3.6b**	**12**	**1-41**
EIDC	XI	02 22 11 34.8		40.3N	42.0E	0	3.7b		**¶97xi0345**
NEIC	XI	02 22 11 36.2		40.22N	42.29E	33			
NEIC	Less reliable solution.								
ISC	**XI**	**02 23 45 54**±4.4		**40.8N**±.15	**27.8E**±.45	**13**±14		**6**	**0-1**
ISK	XI	02 23 45 53.7		40.81N	27.83E	12	2.6D		**¶97xi0357**
ISC	**XI**	**03 08 07 56.5**±.29		**38.77N**±.042	**42.48E**±.033	**8**	**4.8b**,3.9s	**171**	**1-130**
EIDC	XI	03 08 07 57.0		38.8N	42.3E	0	4.5b,4.5L		**¶97xi0433**
ISK	XI	03 08 07 57.8		38.76N	42.40E	8	4.9D		
MOS	XI	03 08 07 59.8		38.8N	42.5E	33	5.0b		
BJI	XI	03 08 07 59.9		38.80N	42.40E	33	4.8b		
NEIC	XI	03 08 07 59.9		38.81N	42.41E	33	4.8b		
NEIC	Casualties.								
NEIC	Two people injured and seven houses destroyed at Bitlis.								
ISC	**XI**	**03 08 46 51.1**±.80		**38.81N**±.064	**42.28E**±.066	**59**±7.3	**4.3b**	**57**	**1-95**
NEIC	XI	03 08 46 48.1		38.71N	42.29E	33	4.5b		**¶97xi0442**
EIDC	XI	03 08 46 53.3		38.9N	42.3E	58	3.9b,4.6L		
ISK	XI	03 08 47 02.3		38.60N	41.02E	12	4.1D		
ISC	**XI**	**03 14 51 10.9**±.97		**38.79N**±.090	**42.31E**±.096	**59**±9.1	**3.9b**	**23**	**1-65**
NEIC	XI	03 14 51 07.7		38.60N	42.23E	33	4.1b		**¶97xi0484**
EIDC	XI	03 14 51 13.1		38.8N	42.3E	63	3.7b,3.1s		
NEIC	Less reliable solution.								
ISC	**XI**	**03 20 58 35**±5.2		**36.9N**±.36	**30.7E**±.29	**5**		**12**	**1-4**
ISK	XI	03 20 58 33.5		36.72N	30.65E	5	3.6D		**¶97xi0517**
ISC	**XI**	**04 01 01 34.0**±.52		**40.84N**±.049	**27.76E**±.046	**9**		**27**	**0-5**
ISK	XI	04 01 01 33.3		40.86N	27.76E	9	3.3D		**¶97xi0550**
ATH	XI	04 01 01 49.6		40.51N	26.06E	10	3.6D		
ISC	**XI**	**04 04 16 09**±1.1		**38.6N**±.15	**42.39E**±.096	**10**		**6**	**1-4**
ISK	XI	04 04 16 07.7		38.60N	42.32E	10	3.6D		**¶97xi0575**
ISC	**XI**	**04 08 13 52**±1.4		**39.29N**±.095	**29.0E**±.20	**4**±22		**5**	**0-1**
ISK	XI	04 08 13 51.8		39.27N	28.96E	7	2.8D		**¶97xi0598**
ISC		Poorly determined							
ISC	**XI**	**04 09 07 14**±1.0		**39.04N**±.070	**26.6E**±.12	**10**		**10**	**1-5**
ISK	XI	04 09 07 15.4		39.11N	26.80E	10	2.8D		**¶97xi0607**
ISC	**XI**	**04 12 36 03**±1.5		**39.64N**±.098	**29.3E**±.20	**10**		**4**	**1-1**
ISK	XI	04 12 36 02.7		39.67N	29.39E	10	2.8D		**¶97xi0635**
ISC		Poorly determined							
ISK	**XI**	**04 14 49 42.8**		**40.70N**	**27.36E**	**5**	**2.7D**		**¶97xi0657**
ISK	**XI**	**04 20 21 09.7**		**40.92N**	**35.33E**	**10**	**3.0D**		**¶97xi0686**
ISC	**XI**	**05 03 15 15.3**±.78		**38.3N**±.12	**42.97E**±.072	**10**		**9**	**0-7**
ISK	XI	05 03 15 14.7		38.38N	42.95E	10	4.0D		**¶97xi0721**
ISC	**XI**	**05 10 04 23**±1.0		**39.22N**±.089	**27.8E**±.14	**9**		**5**	**1-15**
ISK	XI	05 10 04 23.2		39.27N	27.70E	9	2.7D		**¶97xi0766**
ISC	**XI**	**05 12 04 23**±2.3		**41.1N**±.19	**30.3E**±.13	**8**±14		**8**	**1-2**
ISK	XI	05 12 04 22.4		41.16N	30.31E	10	3.0D		**¶97xi0792**
ISC	**XI**	**05 12 17 02**±1.0		**40.7N**±.10	**30.15E**±.055	**3**±10		**15**	**1-3**
ISK	XI	05 12 17 02.0		40.77N	30.14E	9	3.1D		**¶97xi0795**
ISC	**XI**	**05 12 37 45.2**±.94		**40.78N**±.087	**30.13E**±.088	**5**		**15**	**1-5**
ISK	XI	05 12 37 45.8		40.69N	30.08E	5	3.3D		**¶97xi0801**
ISC	**XI**	**05 13 17 49.3**±.68		**40.72N**±.097	**30.15E**±.052	**6**		**13**	**1-2**
ISK	XI	05 13 17 49.2		40.72N	30.13E	6	3.0D		**¶97xi0805**
ISC	**XI**	**05 13 49 11**±1.8		**38.8N**±.16	**39.3E**±.13	**1**±22		**7**	**1-3**
ISK	XI	05 13 49 10.7		38.85N	39.32E	5	3.7D		**¶97xi0808**
ISK	**XI**	**05 13 50 12.5**		**38.85N**	**39.32E**	**10**	**3.0D**		**¶97xi0810**
ISC	**XI**	**05 22 03 02**±2.5		**40.1N**±.18	**28.42E**±.090	**14**		**6**	**0-1**
ISK	XI	05 22 03 03.0		40.19N	28.41E	14	2.8D		**¶97xi0871**
ATH	**XI**	**06 01 32 17.7**		**39.24N**	**26.30E**	**10**			**¶97xi0899**
ISK	**XI**	**06 14 23 43.2**		**39.10N**	**37.41E**	**6**	**3.0D**		**¶97xi0990**
ISK	**XI**	**07 07 52 43.9**		**39.16N**	**27.52E**	**10**	**2.6D**		**¶97xi1096**
ISC	**XI**	**07 09 21 30**±9.7		**39.9N**±.16	**29.3E**±.74	**5**		**4**	**1-1**
ISK	XI	07 09 21 34.0		39.94N	29.09E	5	2.6D		**¶97xi1106**
ISC		Poorly determined							
ISK	**XI**	**07 10 01 42.3**		**38.88N**	**28.04E**	**5**	**2.7D**		**¶97xi1112**
ISK	**XI**	**07 12 12 57.3**		**39.75N**	**29.46E**	**10**	**2.6D**		**¶97xi1123**
ISK	**XI**	**07 15 10 10.0**		**39.84N**	**27.96E**	**5**	**2.5D**		**¶97xi1137**
ISC	**XI**	**08 05 36 38.5**±.89		**38.94N**±.076	**27.72E**±.099	**10**		**10**	**1-3**
ISK	XI	08 05 36 37.8		38.96N	27.77E	10	2.9D		**¶97xi1219**
ISK	**XI**	**08 09 03 20.6**		**40.14N**	**29.11E**	**5**	**2.6D**		**¶97xi1240**
ISK	**XI**	**08 09 05 24.8**		**40.19N**	**29.09E**	**5**	**2.6D**		**¶97xi1242**
ISC	**XI**	**08 10 01 06**±1.7		**39.2N**±.23	**27.7E**±.78	**10**		**4**	**1-1**
ISK	XI	08 10 01 05.8		39.24N	27.75E	10	2.7D		**¶97xi1251**
ISC		Poorly determined							
ISK	**XI**	**08 10 06 30.8**		**38.90N**	**27.60E**	**10**	**2.8D**		**¶97xi1254**
NEIC	XI	08 10 06 30.3		38.37N	26.41E	10			
ATH	XI	08 10 06 31.4		38.36N	26.30E	10	3.6D		
NEIC	Poor solution.								
ISK	**XI**	**08 12 20 46.8**		**39.26N**	**27.68E**	**10**	**2.7D**		**¶97xi1280**
ISC	**XI**	**08 16 15 50**±1.6		**39.2N**±.21	**27.5E**±.91	**5**		**4**	**1-1**
ISK	XI	08 16 15 49.9		39.24N	27.26E	5	2.7D		**¶97xi1314**
ISC		Poorly determined							

ISC	**XI**	**08 17 08 15**±2.8	**39.32N**±.092	**26.0E**±.24	**12**±15		**7**	**0-2**	
ISK	XI	08 17 08 11.1	39.43N	25.85E	10	2.9D			¶97xi1322
NEIC	XI	08 17 08 14.0	39.27N	25.93E	10				
ATH	XI	08 17 08 14.3	39.41N	26.59E	10	3.5D			
NEIC	Less reliable solution.								
ISK	**XI**	**08 18 01 35.5**	**39.38N**	**40.47E**	**10**	**3.2D**			¶97xi1329
ISC	**XI**	**09 06 10 27**±6.6	**40.2N**±.37	**27.4E**±.46	**10**		**4**	**0-1**	
ISK	XI	09 06 10 25.1	40.26N	27.22E	10	2.6D			¶97xi1410
ISC	Poorly determined								
ISC	**XI**	**09 08 37 48**±7.4	**39.8N**±.14	**28.8E**±.81	**5**		**4**	**0-1**	
ISK	XI	09 08 37 49.0	39.82N	28.65E	5	2.6D			¶97xi1421
ISC	Poorly determined								
ISK	**XI**	**09 10 03 05.6**	**38.88N**	**27.61E**	**10**	**2.6D**			¶97xi1429
ISC	**XI**	**09 10 18 11**±1.2	**39.0N**±.13	**27.7E**±.29	**10**		**5**	**1-1**	
NEIC	XI	09 10 18 11.3	39.10N	27.57E	10				¶97xi1432
ISK	XI	09 10 18 11.5	39.09N	27.66E	14	2.7D			
NEIC	Poor solution.								
ISK	**XI**	**09 10 43 24.7**	**39.69N**	**29.45E**	**10**	**2.6D**			¶97xi1436
ISC	**XI**	**09 14 26 13.3**±.78	**40.12N**±.064	**28.91E**±.077	**6**±12		**10**	**0-2**	
ISK	XI	09 14 26 13.0	40.12N	28.90E	14	2.7D			¶97xi1457
ISC	**XI**	**10 01 20 21**±3.9	**38.9N**±.37	**27.8E**±.95	**5**		**4**	**1-1**	
ISK	XI	10 01 20 20.7	38.97N	27.74E	5	2.8D			¶97xi1537
ISC	Poorly determined								
ISC	**XI**	**10 07 59 50**±3.6	**39.0N**±.32	**27.9E**±.89	**10**		**4**	**1-1**	
ISK	XI	10 07 59 49.6	39.09N	27.83E	10	2.7D			¶97xi1578
ISC	Poorly determined								
ISK	**XI**	**10 08 12 30.2**	**39.23N**	**27.26E**	**5**	**2.7D**			¶97xi1580
ISC	**XI**	**10 10 06 06**±2.8	**39.0N**±.31	**27.8E**±.91	**10**		**4**	**1-1**	
ISK	XI	10 10 06 05.5	39.07N	27.79E	10	2.8D			¶97xi1595
ISC	Poorly determined								
ISC	**XI**	**10 10 49 49**±2.6	**40.2N**±.12	**29.4E**±.25	**7**±12		**7**	**0-1**	
ISK	XI	10 10 49 48.3	40.16N	29.46E	9	2.8D			¶97xi1602
ISK	**XI**	**10 12 45 42.3**	**39.28N**	**27.47E**	**6**	**2.8D**			¶97xi1614
ISC	**XI**	**10 21 09 01.3**±.61	**40.43N**±.054	**26.32E**±.075	**15**		**18**	**1-3**	
ATH	XI	10 21 08 56.6	40.12N	24.53E	10				¶97xi1676
ISK	XI	10 21 09 00.5	40.41N	26.33E	15	3.2D			
ISC	**XI**	**11 03 32 21.6**±.94	**40.43N**±.038	**26.27E**±.045	**12**±8.1		**35**	**0-4**	
NEIC	XI	11 03 32 21.7	40.40N	26.42E	10				¶97xi1720
ISK	XI	11 03 32 23.3	40.34N	26.54E	8	3.4D			
ATH	XI	11 03 32 23.4	40.28N	25.48E	10				
THE	XI	11 03 32 23.7	40.5N	26.2E	23	3.6L			
ISC	**XI**	**11 03 34 30**±1.5	**40.43N**±.037	**26.30E**±.041	**15**±12		**40**	**1-4**	
ISK	XI	11 03 34 28.0	40.46N	26.22E	10	3.6D			¶97xi1722
NEIC	XI	11 03 34 29.3	40.47N	26.38E	10				
ATH	XI	11 03 34 31.9	40.37N	25.89E	10	3.7D			
ISK	**XI**	**11 04 50 20.8**	**40.38N**	**26.53E**	**10**	**2.8D**			¶97xi1735
ISK	**XI**	**11 05 06 05.3**	**39.42N**	**26.95E**	**10**	**2.9D**			¶97xi1736
ISK	**XI**	**11 05 10 31.5**	**37.87N**	**28.96E**	**10**	**2.8D**			¶97xi1738
ISC	**XI**	**11 07 40 10**±1.2	**40.45N**±.079	**26.35E**±.098	**5**±15		**7**	**0-2**	
ISK	XI	11 07 40 09.7	40.46N	26.33E	12	2.9D			¶97xi1759
ISC	**XI**	**11 10 06 19**±1.7	**39.2N**±.23	**27.7E**±.80	**10**		**4**	**1-1**	
ISK	XI	11 10 06 18.5	39.26N	27.73E	10	2.7D			¶97xi1768
ISC	Poorly determined								
ISC	**XI**	**11 11 30 20**±1.1	**40.13N**±.079	**28.74E**±.096	**10**		**5**	**1-1**	
ISK	XI	11 11 30 20.3	40.12N	28.72E	10	2.6D			¶97xi1777
NEIC	XI	11 11 30 20.4	40.11N	28.74E	10				
NEIC	Poor solution.								
ISK	**XI**	**11 12 04 06.1**	**39.63N**	**29.46E**	**10**	**2.6D**			¶97xi1782
ISC	**XI**	**11 12 29 04**±1.0	**40.45N**±.076	**26.38E**±.083	**5**±16		**7**	**1-2**	
ISK	XI	11 12 29 04.3	40.45N	26.41E	7	2.8D			¶97xi1787
ISK	**XI**	**11 13 48 26.7**	**41.56N**	**28.04E**	**8**	**2.8D**			¶97xi1797
ISC	**XI**	**11 13 50 54**±1.1	**39.25N**±.098	**27.7E**±.20	**14**		**5**	**1-1**	
ISK	XI	11 13 50 53.6	39.31N	27.64E	14	2.6D			¶97xi1798
NEIC	XI	11 13 50 54.1	39.27N	27.69E	10				
NEIC	Poor solution.								
ISC	**XI**	**11 19 55 13**±1.5	**40.44N**±.089	**26.3E**±.15	**10**±18		**5**	**1-2**	
ISK	XI	11 19 55 12.8	40.43N	26.33E	10	2.9D			¶97xi1861
ISC	Poorly determined								
ISK	**XI**	**11 21 52 29.4**	**40.53N**	**26.18E**	**7**	**2.7D**			¶97xi1880
ISC	**XI**	**11 23 45 08.8**±.61	**40.56N**±.067	**26.23E**±.053	**7**		**16**	**0-3**	
ISK	XI	11 23 45 11.5	40.50N	26.55E	7	3.0D			¶97xi1896
THE	XI	11 23 45 13.7	40.7N	25.8E	0				
ISC	**XI**	**12 02 10 52**±1.6	**40.44N**±.081	**26.3E**±.13	**3**±19		**6**	**1-2**	
ISK	XI	12 02 10 52.7	40.42N	26.35E	8	2.9D			¶97xi1920
ISC	**XI**	**12 10 12 41**±2.3	**39.1N**±.26	**27.6E**±.32	**6**±43		**5**	**1-1**	
ISK	XI	12 10 12 41.7	39.03N	27.67E	10	2.6D			¶97xi1965
ISC	Poorly determined								
ISC	**XI**	**12 10 24 27.9**±.91	**40.45N**±.053	**26.27E**±.063	**8**±10		**13**	**0-3**	
ATH	XI	12 10 24 26.6	40.15N	24.79E	10				¶97xi1968
ISK	XI	12 10 24 28.0	40.47N	26.36E	5	2.9D			
THE	XI	12 10 24 32.7	40.6N	25.8E	0				
ISC	**XI**	**12 11 48 15**±4.3	**38.15N**±.093	**27.9E**±.28	**1**±37		**7**	**1-2**	
ISK	XI	12 11 48 15.8	38.17N	27.85E	9	2.8D			¶97xi1978
NEIC	XI	12 11 48 16.2	38.18N	27.82E	10				
NEIC	Single network solution.								
ISC	**XI**	**12 11 49 29**±1.3	**39.2N**±.12	**27.7E**±.21	**10**		**5**	**1-1**	
ISK	XI	12 11 49 29.0	39.23N	27.66E	11	2.6D			¶97xi1981
NEIC	XI	12 11 49 29.6	39.19N	27.74E	10				
NEIC	Poor solution.								
ISC	**XI**	**12 13 56 08**±1.2	**40.67N**±.067	**29.73E**±.085	**1**±12		**12**	**0-3**	
ISK	XI	12 13 56 09.7	40.68N	29.60E	8	3.2D			¶97xi1991
ISC	**XI**	**12 16 19 08**±1.1	**39.57N**±.045	**26.10E**±.058	**12**±9.6		**19**	**0-4**	
ATH	XI	12 16 19 08.0	39.59N	26.16E	5	3.5D			¶97xi2010
THE	XI	12 16 19 08.8	39.5N	26.1E	3				
ISK	XI	12 16 19 08.9	39.56N	26.46E	10	3.2D			
ISK	**XI**	**12 22 33 24.6**	**40.80N**	**27.62E**	**5**	**2.7D**			¶97xi2041
ISK	**XI**	**13 03 17 01.4**	**39.33N**	**39.85E**	**10**	**3.1D**			¶97xi2071
ISC	**XI**	**13 08 26 55**±1.5	**39.8N**±.18	**28.6E**±.41	**10**±25		**5**	**0-1**	
ISK	XI	13 08 26 54.8	39.82N	28.66E	11	2.7D			¶97xi2101
NEIC	XI	13 08 26 55.1	39.79N	28.57E	10				
ISC	Poorly determined								
NEIC	Poor solution.								
ISC	**XI**	**13 08 54 52**±1.7	**39.1N**±.26	**27.7E**±.89	**10**		**4**	**1-1**	
ISK	XI	13 08 54 51.3	39.12N	27.69E	10	2.7D			¶97xi2105
ISC	Poorly determined								
ISK	**XI**	**13 11 32 57.2**	**39.64N**	**29.42E**	**10**	**2.6D**			¶97xi2127
ISC	**XI**	**13 13 17 15**±1.4	**39.3N**±.12	**27.6E**±.23	**10**		**4**	**1-1**	
ISK	XI	13 13 17 15.1	39.32N	27.57E	15	2.6D			¶97xi2140
NEIC	XI	13 13 17 15.7	39.28N	27.64E	10				
ISC	Poorly determined								
NEIC	Poor solution.								
ISC	**XI**	**14 15 38 24**±3.2	**40.62N**±.081	**29.6E**±.30	**10**		**6**	**0-1**	
NEIC	XI	14 15 38 21.7	40.62N	29.85E	10				¶97xi2312
ISK	XI	14 15 38 23.1	40.62N	29.64E	9	2.8D			
NEIC	Poor solution.								
ISC	**XI**	**14 16 43 45.2**±.83	**39.81N**±.094	**41.82E**±.097	**10**		**12**	**1-4**	
ISK	XI	14 16 43 42.8	39.86N	41.71E	10	3.3D			¶97xi2319
ISC	**XI**	**14 22 44 15**±3.3	**39.1N**±.22	**27.0E**±.26	**10**		**4**	**1-2**	
ATH	XI	14 22 44 19.0	39.06N	26.76E	10	3.6D			¶97xi2369
ISC	Poorly determined								
ATH	**XI**	**14 23 54 21.1**	**39.56N**	**26.23E**	**5**	**3.3D**			¶97xi2384
ISC	**XI**	**15 10 02 43.7**±.90	**38.95N**±.067	**28.0E**±.13	**5**		**8**	**1-3**	
ATH	XI	15 10 02 42.8	39.02N	28.20E	5	3.6D			¶97xi2457
NEIC	XI	15 10 02 43.3	38.86N	28.12E	10				
ISK	XI	15 10 02 43.5	39.00N	27.88E	10	3.0D			
NEIC	Poor solution.								
ISK	**XI**	**15 16 30 29.6**	**40.07N**	**27.78E**	**10**	**2.7D**			¶97xi2508
ISC	**XI**	**16 15 43 20.9**±.51	**40.09N**±.046	**27.68E**±.047	**8**		**23**	**0-4**	
ISK	XI	16 15 43 20.3	40.10N	27.58E	8	3.2D			¶97xi2664
NEIC	XI	16 15 43 20.7	40.11N	27.58E	10				
ISK	**XI**	**17 10 21 48.0**	**40.53N**	**28.80E**	**10**	**2.5D**			¶97xi2775
ISC	**XI**	**17 12 56 35.3**±.81	**39.56N**±.082	**26.08E**±.077	**10**		**11**	**1-3**	
ISK	XI	17 12 56 28.4	39.65N	25.55E	10	3.2D			¶97xi2800
THE	XI	17 12 56 37.6	39.5N	26.0E	17	2.4L			
ISK	**XI**	**17 13 47 06.7**	**39.65N**	**28.94E**	**10**	**2.6D**			¶97xi2808
ISK	**XI**	**17 19 16 34.0**	**40.38N**	**28.35E**	**5**	**2.6D**			¶97xi2850
ISC	**XI**	**18 12 38 00**±9.0	**39.4N**±.31	**30.1E**±.77	**10**		**5**	**1-2**	
ISK	XI	18 12 38 07.1	39.71N	29.53E	10	2.8D			¶97xi2960
ISK	**XI**	**18 13 01 04.7**	**40.34N**	**29.48E**	**10**	**2.6D**			¶97xi2963
ISK	**XI**	**18 14 46 43.5**	**39.75N**	**28.88E**	**5**	**2.6D**			¶97xi2990
ATH	**XI**	**18 21 48 15.5**	**39.19N**	**26.87E**	**23**	**3.3D**			¶97xi3068
ISC	**XI**	**19 03 28 50.7**±.88	**40.7N**±.12	**30.40E**±.053	**12**±8.2		**17**	**0-3**	
ISK	XI	19 03 28 48.4	40.98N	30.56E	11	3.2D			¶97xi3124
ISC	**XI**	**19 03 34 04.6**±.75	**40.7N**±.12	**30.34E**±.063	**10**		**10**	**0-2**	
ISK	XI	19 03 34 03.6	40.52N	30.29E	10	2.9D			¶97xi3127
ISC	**XI**	**19 03 37 36**±1.1	**40.5N**±.25	**30.30E**±.092	**10**		**7**	**1-2**	
ISK	XI	19 03 37 34.3	40.44N	30.29E	10	3.0D			¶97xi3128
ISK	**XI**	**19 11 08 02.8**	**39.21N**	**27.41E**	**10**	**2.6D**			¶97xi3198
ISC	**XI**	**19 19 40 22**±1.2	**40.1N**±.13	**40.5E**±.10	**10**		**8**	**1-4**	
ISK	XI	19 19 40 26.2	39.94N	40.20E	10	3.5D			¶97xi3298
ISC	**XI**	**20 06 44 41**±1.4	**39.81N**±.082	**28.6E**±.16	**10**		**4**	**0-1**	
ISK	XI	20 06 44 40.7	39.81N	28.60E	5	2.6D			¶97xi3412
NEIC	XI	20 06 44 41.1	39.79N	28.58E	10				
ISC	Poorly determined								
NEIC	Poor solution.								
ISC	**XI**	**21 04 41 30**±1.1	**40.4N**±.12	**28.86E**±.083	**5**		**5**	**0-1**	
ISK	XI	21 04 41 29.7	40.41N	28.88E	5	2.7D			¶97xi3586
NEIC	XI	21 04 41 29.9	40.38N	28.86E	5				
NEIC	Single network solution.								
ISK	**XI**	**21 06 04 11.7**	**39.11N**	**27.84E**	**10**	**2.6D**			¶97xi3600
ISC	**XI**	**21 06 25 51**±1.3	**39.1N**±.16	**28.0E**±.26	**10**		**5**	**1-2**	
ISK	XI	21 06 25 50.1	39.07N	27.97E	10	2.8D			¶97xi3603
NEIC	XI	21 06 25 51.3	39.06N	27.98E	10				
NEIC	Single network solution.								
ISC	**XI**	**21 06 36 51.1**±.65	**39.14N**±.062	**27.80E**±.090	**10**		**16**	**1-6**	
ISK	XI	21 06 36 50.3	39.07N	27.90E	11	3.0D			¶97xi3606
NEIC	XI	21 06 36 50.3	39.00N	27.99E	10				
NEIC	Single network solution.								
ISC	**XI**	**21 23 46 55**±1.7	**39.47N**±.078	**28.0E**±.20	**10**±15		**9**	**1-3**	
ISK	XI	21 23 46 53.3	39.40N	28.15E	5	2.9D			¶97xi3760
NEIC	XI	21 23 46 53.6	39.36N	28.20E	5				
NEIC	Single network solution.								
ISC	**XI**	**22 07 38 02.4**±.57	**39.25N**±.042	**26.97E**±.078	**8**		**14**	**1-2**	
ISK	XI	22 07 38 02.0	39.29N	27.00E	8	3.0D			¶97xi3832
ATH	XI	22 07 38 04.6	39.28N	27.00E	5	3.6D			
ISK	**XI**	**22 09 57 05.9**	**39.50N**	**29.61E**	**13**	**2.6D**			¶97xi3848
ISC	**XI**	**22 11 59 52**±1.0	**40.6N**±.15	**35.35E**±.096	**10**		**11**	**0-5**	
NEIC	XI	22 11 59 52.2	40.64N	35.33E	10				¶97xi3868
NEIC	Single network solution.								
ISC	**XI**	**23 01 51 21**±2.5	**40.6N**±.12	**36.8E**±.25	**10**		**6**	**1-2**	
ISK	XI	23 01 51 20.7	40.59N	36.70E	10	3.3D			¶97xi4000
ISC	**XI**	**23 06 08 07**±1.0	**39.53N**±.081	**38.1E**±.11	**9**		**9**	**1-3**	
ISK	XI	23 06 08 05.6	39.54N	38.18E	9	3.5D			¶97xi4052
ISC	**XI**	**23 08 32 31.7**±.83	**39.65N**±.068	**38.27E**±.095	**10**		**17**	**1-5**	
ISK	XI	23 08 32 29.3	39.73N	38.38E	10	3.9D			¶97xi4077
ISC	**XI**	**23 08 50 32.3**±.97	**39.96N**±.075	**28.81E**±.071	**5**±11		**11**	**0-2**	
ISK	XI	23 08 50 32.1	39.94N	28.85E	11	2.9D			¶97xi4080
ISC	**XI**	**23 10 54 53**±13	**39.4N**±.67	**28.0E**±.59	**10**		**4**	**1-1**	
ISK	XI	23 10 54 52.1	39.39N	28.00E	10	2.6D			¶97xi4100
ISC	Poorly determined								
ISC	**XI**	**23 11 41 07**±1.2	**38.6N**±.10	**30.6E**±.24	**33**		**6**	**1-3**	
									¶97xi4108
ISC	**XI**	**23 11 53 37**±1.7	**39.90N**±.087	**28.9E**±.13	**5**		**5**	**0-1**	
ISK	XI	23 11 53 37.3	39.88N	28.84E	5	2.6D			¶97xi4111
ISK	**XI**	**23 18 32 40.7**	**39.14N**	**26.64E**	**10**	**2.8D**			¶97xi4172
ISC	**XI**	**23 19 06 30**±1.2	**40.8N**±.12	**30.02E**±.074	**1**±16		**7**	**0-2**	
ISK	XI	23 19 06 30.0	40.75N	29.89E	10	2.8D			¶97xi4178
ISK	**XI**	**24 00 08 59.5**	**41.75N**	**33.47E**	**10**	**3.3D**			¶97xi4229
ISK	**XI**	**24 00 23 25.7**	**40.02N**	**28.82E**	**10**	**2.8D**			¶97xi4231
ISK	**XI**	**24 09 21 38.4**	**39.91N**	**28.85E**	**5**	**2.6D**			¶97xi4289
ISC	**XI**	**24 09 55 59**±1.9	**40.6N**±.29	**35.25E**±.085	**7**±17		**9**	**0-5**	
NEIC	XI	24 09 55 59.5	40.67N	35.25E	10				¶97xi4292
NEIC	Single network solution.								
ISK	**XI**	**24 09 58 41.9**	**39.34N**	**27.54E**	**5**	**2.7D**			¶97xi4293
ISK	**XI**	**24 10 14 48.3**	**39.23N**	**27.32E**	**5**	**2.7D**			¶97xi4298
ISK	**XI**	**24 11 51 55.5**	**40.50N**	**29.94E**	**10**	**2.8D**			¶97xi4314
ISK	**XI**	**24 12 55 17.6**	**39.32N**	**27.54E**	**10**	**2.7D**			¶97xi4320
ISK	**XI**	**24 13 15 45.9**	**39.46N**	**30.31E**	**10**	**2.7D**			¶97xi4324
ISK	**XI**	**24 13 20 01.6**	**39.56N**	**30.09E**	**8**	**2.6D**			¶97xi4325
ISK	**XI**	**24 13 43 59.8**	**39.66N**	**29.38E**	**5**	**2.5D**			¶97xi4327
ISK	**XI**	**24 23 27 58.1**	**39.18N**	**27.67E**	**14**	**2.7D**			¶97xi4407
ISC	**XI**	**24 23 43 29.7**±.80	**39.10N**±.075	**27.9E**±.12	**6**		**8**	**1-2**	
ISK	XI	24 23 43 29.5	39.06N	27.96E	6	2.8D			¶97xi4410
ISK	**XI**	**25 02 55 32.3**	**40.66N**	**29.26E**	**10**	**2.4D**			¶97xi4434
ISK	**XI**	**25 12 19 40.7**	**39.27N**	**30.21E**	**10**	**2.7D**			¶97xi4508
ISK	**XI**	**25 14 37 04.6**	**39.66N**	**29.44E**	**6**	**2.6D**			¶97xi4535
ISC	**XI**	**25 22 30 55.1**±.95	**39.94N**±.077	**28.81E**±.069	**13**		**14**	**0-3**	
ISK	XI	25 22 30 54.7	39.91N	28.81E	13	3.0D			¶97xi4590
ATH	XI	25 22 31 01.3	40.15N	28.87E	10				
ISC	**XI**	**26 08 46 19**±1.4	**40.8N**±.11	**35.7E**±.16	**9**		**5**	**0-1**	
ISK	XI	26 08 46 18.9	40.84N	35.77E	9	3.0D			¶97xi4658
ISC	Poorly determined								

Agency	mo	d	Origin Time h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISK	**XI**	**26**	**09**	**45**	**37.7**	**39.61N**	**29.62E**	**5**	**2.5D**		**¶97xi4666**
ISC	**XI**	**26**	**11**	**59**	**45**±1.6	**39.34N**±.080	**28.1E**±.11	**3**±15		**11**	**0-3**
ISK	XI	26	11	59	45.4	39.33N	28.17E	10	2.7D		**¶97xi4679**
NEIC	XI	26	11	59	46.2	39.33N	28.20E	10			
NEIC	Single network solution.										
ISC	**XI**	**27**	**10**	**03**	**16**±14	**39.8N**±.95	**28.9E**±.26	**5**		**4**	**1-1**
ISK	XI	27	10	03	15.6	39.74N	28.88E	5	2.6D		**¶97xi4839**
ISC	Poorly determined										
ISC	**XI**	**27**	**10**	**34**	**22**±1.1	**39.45N**±.070	**27.9E**±.14	**10**		**6**	**1-2**
ISK	XI	27	10	34	22.0	39.45N	27.90E	10	2.8D		**¶97xi4842**
NEIC	XI	27	10	34	23.0	39.45N	27.93E	10			
NEIC	Single network solution.										
ISK	**XI**	**27**	**11**	**45**	**53.3**	**39.60N**	**29.53E**	**14**	**2.6D**		**¶97xi4850**
ISK	**XI**	**27**	**13**	**20**	**46.0**	**39.64N**	**29.86E**	**10**	**2.7D**		**¶97xi4867**
ISC	**XI**	**27**	**13**	**33**	**12**±5.8	**39.9N**±.44	**28.8E**±.15	**10**		**4**	**1-1**
ISK	XI	27	13	33	10.7	39.86N	28.85E	10	2.6D		**¶97xi4871**
NEIC	XI	27	13	33	13.0	40.01N	28.86E	10			
ISC	Poorly determined										
NEIC	Poor solution.										
ISC	**XI**	**27**	**14**	**41**	**11**±6.8	**39.7N**±.39	**29.3E**±.51	**10**		**5**	**1-1**
ISK	XI	27	14	41	09.1	39.61N	29.44E	10	2.6D		**¶97xi4877**
ISK	**XI**	**27**	**15**	**16**	**58.8**	**39.64N**	**29.52E**	**10**	**2.6D**		**¶97xi4884**
ISK	**XI**	**27**	**19**	**52**	**43.9**	**39.97N**	**37.62E**	**10**	**3.1D**		**¶97xi4926**
ISK	**XI**	**28**	**07**	**34**	**20.8**	**36.52N**	**30.99E**	**10**	**3.1D**		**¶97xi5031**
ISK	**XI**	**28**	**09**	**26**	**46.6**	**39.23N**	**27.29E**	**10**	**2.6D**		**¶97xi5052**
ISK	**XI**	**28**	**10**	**13**	**13.6**	**39.25N**	**27.26E**	**6**	**2.7D**		**¶97xi5061**
ISC	**XI**	**28**	**12**	**54**	**52.6**±.79	**40.46N**±.063	**29.16E**±.068	**6**±8.7		**11**	**0-2**
ISK	XI	28	12	54	52.0	40.48N	29.20E	10	2.8D		**¶97xi5085**
NEIC	XI	28	12	54	52.5	40.46N	29.23E	10			
NEIC	Single network solution.										
ISC	**XI**	**28**	**13**	**43**	**13**±1.1	**39.7N**±.10	**29.8E**±.13	**33**		**6**	**1-2**
											¶97xi5093
ISC	**XI**	**28**	**14**	**46**	**52**±6.7	**39.8N**±.41	**29.3E**±.57	**10**		**4**	**1-1**
ISK	XI	28	14	46	52.0	39.73N	29.32E	10	2.7D		**¶97xi5102**
ISC	Poorly determined										
ISK	**XI**	**29**	**06**	**30**	**30.8**	**39.58N**	**29.73E**	**10**	**2.6D**		**¶97xi5212**
ISK	**XI**	**29**	**06**	**58**	**30.1**	**39.66N**	**29.54E**	**10**	**2.6D**		**¶97xi5217**
ISK	**XI**	**29**	**08**	**53**	**59.7**	**39.72N**	**29.50E**	**10**	**2.6D**		**¶97xi5227**
ISC	**XI**	**29**	**12**	**42**	**24**±1.1	**39.62N**±.076	**29.7E**±.12	**15**		**6**	**1-1**
ISK	XI	29	12	42	22.1	39.59N	29.93E	15	2.6D		**¶97xi5267**
ISK	**XI**	**29**	**14**	**48**	**07.8**	**39.58N**	**29.44E**	**6**	**2.7D**		**¶97xi5282**
ISC	**XI**	**29**	**14**	**53**	**59.7**±.78	**39.97N**±.075	**31.91E**±.070	**10**		**13**	**1-3**
ISK	XI	29	14	54	03.3	39.88N	31.26E	10	3.2D		**¶97xi5283**
ISC	**XI**	**29**	**19**	**00**	**26.8**±.98	**38.82N**±.076	**27.3E**±.13	**21**±18		**9**	**0-3**
ISK	XI	29	19	00	25.6	38.87N	27.26E	8	3.0D		**¶97xi5313**
ATH	XI	29	19	00	26.8	38.86N	27.40E	26	3.4D		
ISC	**XI**	**29**	**20**	**33**	**37**±6.2	**40.0N**±.51	**28.8E**±.12	**5**		**5**	**0-1**
ISK	XI	29	20	33	36.1	39.93N	28.82E	5	2.6D		**¶97xi5319**
ISC	**XI**	**30**	**07**	**38**	**40.2**±.83	**37.58N**±.064	**37.5E**±.11	**6**		**10**	**1-4**
ISK	XI	30	07	38	41.6	37.85N	37.36E	6	3.7D		**¶97xi5381**
ISC	**XI**	**30**	**10**	**15**	**43**±2.8	**39.1N**±.12	**27.4E**±.30	**1**±21		**5**	**1-2**
ISK	XI	30	10	15	42.5	39.17N	27.38E	10	2.7D		**¶97xi5400**
ISC	Poorly determined										
ISK	**XII**	**01**	**02**	**56**	**29.0**	**36.12N**	**30.75E**	**9**	**3.5D**		**¶97xii0019**
ISC	**XII**	**01**	**08**	**16**	**23**±1.3	**40.78N**±.082	**28.5E**±.14	**10**		**4**	**0-1**
ISK	XII	01	08	16	22.9	40.80N	28.50E	10	2.6D		**¶97xii0053**
ISC	Poorly determined										
ISC	**XII**	**01**	**09**	**28**	**31**±2.9	**40.2N**±.16	**27.1E**±.14	**1**±17		**8**	**1-2**
ISK	XII	01	09	28	32.2	40.27N	27.13E	5	2.9D		**¶97xii0059**
NEIC	XII	01	09	28	32.5	40.28N	27.13E	5			
NEIC	Single network solution.										
ISK	**XII**	**01**	**09**	**54**	**19.9**	**40.36N**	**28.09E**	**7**	**2.6D**		**¶97xii0065**
ISC	**XII**	**01**	**10**	**47**	**02**±9.3	**39.3N**±.48	**28.0E**±.41	**12**		**5**	**1-2**
ISK	XII	01	10	47	02.7	39.34N	28.15E	12	2.6D		**¶97xii0070**
ISK	**XII**	**01**	**10**	**53**	**10.4**	**40.73N**	**35.24E**	**6**	**2.8D**		**¶97xii0071**
ISK	**XII**	**01**	**11**	**44**	**14.4**	**40.25N**	**29.59E**	**10**	**2.6D**		**¶97xii0077**
ISK	**XII**	**01**	**12**	**28**	**33.4**	**40.28N**	**30.76E**	**10**	**2.6D**		**¶97xii0083**
ISC	**XII**	**01**	**14**	**59**	**24**±1.4	**39.09N**±.061	**27.78E**±.097	**7**±13		**10**	**1-2**
ISK	XII	01	14	59	23.8	39.05N	27.75E	10	3.0D		**¶97xii0102**
NEIC	XII	01	14	59	23.8	39.06N	27.78E	10			
NEIC	Single network solution.										
ISK	**XII**	**01**	**17**	**11**	**47.1**	**38.74N**	**27.08E**	**10**	**3.0D**		**¶97xii0115**
ISC	**XII**	**03**	**15**	**20**	**28**±1.5	**38.14N**±.084	**30.9E**±.15	**26**±17		**9**	**0-3**
ISK	XII	03	15	20	23.9	38.28N	31.14E	10	3.2D		**¶97xii0452**
NEIC	XII	03	15	20	25.7	38.25N	31.08E	10			
NEIC	Single network solution.										
ISK	**XII**	**04**	**11**	**42**	**51.6**	**39.03N**	**27.72E**	**10**	**2.8D**		**¶97xii0606**
ISK	**XII**	**04**	**16**	**14**	**58.1**	**37.11N**	**28.19E**	**10**	**3.1D**		**¶97xii0648**
ISC	**XII**	**05**	**05**	**38**	**15**±1.4	**40.8N**±.11	**27.6E**±.10	**24**±16		**8**	**1-2**
NEIC	XII	05	05	38	13.6	40.85N	27.56E	10			**¶97xii0787**
ISK	XII	05	05	38	14.3	40.82N	27.61E	10	3.0D		
NEIC	Single network solution.										
ISC	**XII**	**05**	**08**	**40**	**18**±1.4	**39.0N**±.12	**27.9E**±.17	**10**		**5**	**1-2**
ISK	XII	05	08	40	17.3	39.03N	27.82E	10	2.8D		**¶97xii0814**
NEIC	XII	05	08	40	18.6	38.97N	27.86E	10			
NEIC	Single network solution.										
ISC	**XII**	**05**	**09**	**16**	**01.2**±.73	**39.01N**±.062	**27.84E**±.080	**6**		**13**	**1-4**
ISK	XII	05	09	16	01.0	39.01N	27.86E	6	3.2D		**¶97xii0818**
NEIC	XII	05	09	16	01.4	38.98N	27.86E	10			
NEIC	Single network solution.										
ISC	**XII**	**05**	**09**	**21**	**58.5**±.66	**38.81N**±.070	**27.83E**±.077	**10**		**13**	**1-4**
ISK	XII	05	09	21	56.8	38.78N	27.88E	10	3.2D		**¶97xii0819**
NEIC	XII	05	09	21	58.2	38.77N	27.85E	10			
NEIC	Single network solution.										
ISC	**XII**	**05**	**17**	**27**	**52**±2.1	**39.02N**±.076	**27.8E**±.11	**5**±21		**12**	**1-3**
ISK	XII	05	17	27	51.4	39.05N	27.82E	7	3.2D		**¶97xii0984**
NEIC	XII	05	17	27	51.9	39.02N	27.81E	10			
NEIC	Single network solution.										
ISC	**XII**	**05**	**23**	**09**	**45.0**±.96	**38.4N**±.11	**36.5E**±.14	**5**		**6**	**1-3**
ISK	XII	05	23	09	45.0	38.44N	36.59E	5	3.2D		**¶97xii1137**
ISC	**XII**	**05**	**23**	**25**	**15.8**±.92	**40.6N**±.10	**30.35E**±.059	**5**±9.5		**14**	**1-2**
ISK	XII	05	23	25	15.6	40.62N	30.36E	9	3.1D		**¶97xii1146**
NEIC	XII	05	23	25	16.0	40.58N	30.37E	10			
NEIC	Single network solution.										
ISK	**XII**	**06**	**00**	**05**	**37.7**	**39.95N**	**29.07E**	**10**	**2.7D**		**¶97xii1166**
ISC	**XII**	**06**	**00**	**12**	**58.5**±.23	**36.86N**±.024	**30.88E**±.027	**103**±3.2	**4.4b**	**171**	**1-124**
BJI	XII	06	00	12	57.7	36.93N	30.27E	133	4.9b		**¶97xii1168**
ISK	XII	06	00	12	58.5	36.86N	30.81E	10	4.4D		
NEIC	XII	06	00	12	59.0	36.94N	30.89E	107	4.2b		
EIDC	XII	06	00	13	00.4±1.98	37.0N	31.0E	102±15.9	4.4b		
THE	XII	06	00	13	05.5	37.3N	30.5E	15	4.3L		
NEIC	Felt in Antalya, Burdur and Isparta.										
EIDC	Error ellipse is semi-major=16.8km semi-minor=15.2km azimuth=135										
ISC	**XII**	**06**	**04**	**17**	**00.5**±.64	**38.38N**±.075	**39.25E**±.063	**8**		**17**	**1-5**
ISK	XII	06	04	17	00.2	38.43N	39.22E	8	4.0D		**¶97xii1246**
ISC	**XII**	**06**	**08**	**49**	**09**±1.4	**38.9N**±.31	**27.8E**±.49	**10**		**4**	**1-2**
ISK	XII	06	08	49	08.5	38.99N	27.69E	10	2.7D		**¶97xii1315**
NEIC	XII	06	08	49	09.6	38.90N	27.77E	10			
ISC	Poorly determined										
NEIC	Poor solution.										
ISC	**XII**	**06**	**09**	**42**	**54**±1.6	**40.5N**±.13	**29.3E**±.15	**10**		**4**	**0-1**
ISK	XII	06	09	42	54.3	40.52N	29.31E	10	2.6D		**¶97xii1336**
NEIC	XII	06	09	42	54.8	40.49N	29.27E	10			
ISC	Poorly determined										
NEIC	Poor solution.										
ISC	**XII**	**06**	**11**	**02**	**20**±1.4	**38.4N**±.14	**36.5E**±.19	**10**		**4**	**1-2**
ISK	XII	06	11	02	19.0	38.42N	36.55E	10	3.3D		**¶97xii1373**
ISC	Poorly determined										
ISC	**XII**	**06**	**21**	**01**	**02**±1.6	**39.7N**±.11	**38.4E**±.26	**10**		**7**	**1-8**
ISK	XII	06	21	01	02.2	39.46N	37.75E	10	3.2D		**¶97xii1524**
ISC	**XII**	**07**	**07**	**45**	**35**±3.6	**41.4N**±.31	**28.1E**±.13	**21**±22		**6**	**0-2**
ISK	XII	07	07	45	33.6	41.53N	28.04E	10	2.7D		**¶97xii1652**
NEIC	XII	07	07	45	35.7	41.36N	28.06E	10			
NEIC	Poor solution.										
ISK	**XII**	**07**	**11**	**49**	**06.9**	**39.23N**	**27.41E**	**10**	**2.7D**		**¶97xii1692**
ISC	**XII**	**07**	**14**	**31**	**08**±1.2	**36.7N**±.26	**31.1E**±.20	**13**		**4**	**2-2**
ISK	XII	07	14	31	07.7	36.72N	31.12E	13	3.4D		**¶97xii1719**
ISC	Poorly determined										
ISC	**XII**	**07**	**15**	**39**	**05**±1.5	**40.71N**±.094	**29.8E**±.11	**12**±11		**8**	**0-1**
NEIC	XII	07	15	39	03.0	40.71N	30.02E	10			**¶97xii1728**
ISK	XII	07	15	39	04.8	40.74N	29.86E	14	2.7D		
NEIC	Poor solution.										
ISC	**XII**	**07**	**15**	**57**	**49**±1.1	**40.69N**±.088	**29.85E**±.082	**12**±11		**10**	**0-2**
NEIC	XII	07	15	57	50.4	40.68N	29.72E	10			**¶97xii1729**
NEIC	MD2.8(ISK), Single network solution.										
ATH	**XII**	**08**	**08**	**35**	**35.0**	**39.49N**	**26.66E**	**10**			**¶97xii1895**
ISC	**XII**	**08**	**15**	**33**	**36**±1.4	**40.6N**±.22	**30.4E**±.11	**10**		**4**	**1-2**
ISK	XII	08	15	33	34.3	40.74N	30.39E	10	2.7D		**¶97xii1950**
ISC	Poorly determined										
ISC	**XII**	**08**	**16**	**29**	**56**±1.2	**40.6N**±.18	**30.35E**±.098	**10**		**5**	**1-2**
ISK	XII	08	16	29	55.3	40.71N	30.39E	10	2.9D		**¶97xii1961**
ISC	**XII**	**09**	**08**	**02**	**07**±1.1	**40.5N**±.14	**32.4E**±.11	**10**		**12**	**0-3**
ISK	XII	09	08	02	04.5	40.56N	32.37E	10	3.2D		**¶97xii2130**
ISC	**XII**	**09**	**09**	**17**	**00**±1.1	**39.23N**±.090	**26.8E**±.13	**10**		**6**	**1-4**
ISK	XII	09	09	17	02.3	39.18N	27.47E	10	2.8D		**¶97xii2139**
ISC	**XII**	**09**	**11**	**18**	**37.3**±.78	**38.88N**±.058	**27.04E**±.095	**5**		**10**	**1-3**
ATH	XII	09	11	18	35.5	38.96N	27.51E	5			**¶97xii2159**
ISK	XII	09	11	18	38.8	38.84N	27.19E	10	3.0D		
ISC	**XII**	**09**	**12**	**26**	**36**±1.4	**40.2N**±.10	**27.5E**±.11	**15**		**8**	**0-2**
ISK	XII	09	12	26	40.8	40.27N	27.93E	15	2.8D		**¶97xii2167**
ISC	**XII**	**09**	**13**	**29**	**04**±1.2	**39.79N**±.095	**28.8E**±.14	**12**±13		**5**	**0-1**
ISK	XII	09	13	29	03.6	39.76N	28.80E	11	2.7D		**¶97xii2175**
ISC	Poorly determined										
ISC	**XII**	**10**	**00**	**01**	**07**±1.6	**39.28N**±.089	**29.4E**±.23	**11**±22		**5**	**1-1**
ISK	XII	10	00	01	07.6	39.28N	29.44E	10	2.8D		**¶97xii2263**
NEIC	XII	10	00	01	07.7	39.29N	29.45E	10			
ISC	Poorly determined										
NEIC	Single network solution.										
ISC	**XII**	**10**	**10**	**52**	**43**±1.1	**39.3N**±.12	**27.6E**±.28	**10**		**6**	**1-2**
ISK	XII	10	10	52	42.2	39.24N	27.75E	10	2.8D		**¶97xii2334**
NEIC	XII	10	10	52	43.1	39.26N	27.63E	10			
NEIC	Poor solution.										
ISK	**XII**	**10**	**12**	**19**	**55.1**	**37.73N**	**37.69E**	**5**	**3.2D**		**¶97xii2348**
ISK	**XII**	**10**	**19**	**50**	**01.3**	**38.97N**	**28.03E**	**10**	**2.8D**		**¶97xii2417**
ISK	**XII**	**11**	**08**	**59**	**31.6**	**39.55N**	**29.49E**	**6**	**2.6D**		**¶97xii2524**
ISK	**XII**	**11**	**10**	**03**	**36.2**	**41.29N**	**28.51E**	**6**	**2.6D**		**¶97xii2540**
ISC	**XII**	**11**	**10**	**39**	**47**±12	**39.7N**±.66	**29.5E**±.87	**8**		**4**	**1-1**
ISK	XII	11	10	39	46.8	39.64N	29.57E	8	2.6D		**¶97xii2546**
ISC	Poorly determined										
ISC	**XII**	**11**	**11**	**28**	**00**±6.8	**39.7N**±.32	**29.5E**±.42	**10**		**4**	**1-1**
ISK	XII	11	11	27	59.6	39.64N	29.49E	10	2.5D		**¶97xii2550**
ISC	Poorly determined										
ISK	**XII**	**11**	**11**	**55**	**00.3**	**39.43N**	**27.17E**	**6**	**2.8D**		**¶97xii2555**
ISK	**XII**	**11**	**13**	**09**	**37.1**	**39.63N**	**29.48E**	**5**	**2.5D**		**¶97xii2571**
ISC	**XII**	**11**	**13**	**59**	**07**±5.4	**39.5N**±.23	**29.6E**±.40	**5**		**4**	**1-6**
ISK	XII	11	13	59	09.3	39.62N	29.50E	5	2.6D		**¶97xii2578**
ISC	Poorly determined										
ISC	**XII**	**11**	**17**	**42**	**12**±2.4	**36.2N**±.28	**31.0E**±.18	**33**		**4**	**1-2**
ISK	XII	11	17	42	07.4	36.16N	31.03E	33	3.3D		**¶97xii2609**
ISC	Poorly determined										
ISC	**XII**	**11**	**17**	**58**	**32**±1.1	**40.80N**±.079	**36.3E**±.11	**9**±18		**8**	**0-1**
ISK	XII	11	17	58	31.6	40.82N	36.32E	5	2.8D		**¶97xii2614**
ISK	**XII**	**12**	**04**	**47**	**12.2**	**38.95N**	**27.52E**	**5**	**2.7D**		**¶97xii2694**
ISC	**XII**	**12**	**05**	**51**	**04**±1.4	**38.4N**±.14	**29.2E**±.12	**10**		**6**	**0-1**
ISK	XII	12	05	51	03.3	38.29N	29.15E	7	3.1D		**¶97xii2703**
NEIC	XII	12	05	51	03.6	38.33N	29.13E	10			
NEIC	Single network solution.										
ATH	**XII**	**12**	**06**	**58**	**02.3**	**39.17N**	**26.92E**	**10**	**3.4D**		**¶97xii2708**
ISC	**XII**	**12**	**08**	**01**	**18.7**±.58	**39.76N**±.059	**41.93E**±.088	**10**	**4.0b**,3.6s	**25**	**1-76**
ISK	XII	12	08	01	16.0	39.83N	41.88E	10	4.0D		**¶97xii2714**
NEIC	XII	12	08	01	18.9	39.73N	41.84E	10	4.1b,3.6s		
EIDC	XII	12	08	01	19.2±1.43	39.8N	41.8E	0	3.8b,4.1L		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi-major=32.2km semi-minor=20.9km azimuth=134										
ISK	**XII**	**12**	**11**	**08**	**23.6**	**40.19N**	**29.61E**	**10**	**2.4D**		**¶97xii2737**
ISK	**XII**	**12**	**12**	**50**	**08.2**	**39.65N**	**29.46E**	**5**	**2.5D**		**¶97xii2753**
ISC	**XII**	**12**	**13**	**47**	**05**±1.8	**40.8N**±.17	**30.1E**±.11	**5**±21		**6**	**1-1**
ISK	XII	12	13	47	04.4	40.80N	30.09E	7	2.8D		**¶97xii2756**
ISC	Poorly determined										
ISC	**XII**	**12**	**15**	**20**	**28**±6.9	**39.0N**±.64	**29.3E**±.32	**5**±22		**5**	**1-2**
ISK	XII	12	15	20	28.8	39.09N	29.36E	10	2.8D		**¶97xii2773**
ISC	Poorly determined										
ISK	**XII**	**13**	**03**	**25**	**54.9**	**37.13N**	**30.79E**	**10**	**3.0D**		**¶97xii2870**
ISC	**XII**	**13**	**12**	**46**	**01**±1.1	**39.1N**±.13	**27.8E**±.24	**10**		**5**	**1-2**
ISK	XII	13	12	46	00.7	39.12N	27.70E	10	2.8D		**¶97xii2945**
NEIC	XII	13	12	46	01.6	39.08N	27.76E	10			
NEIC	Single network solution.										
ISC	**XII**	**13**	**13**	**03**	**48**±13	**39.6N**±.72	**29.5E**±.78	**5**		**4**	**1-1**
ISK	XII	13	13	03	47.9	39.56N	29.44E	5	2.5D		**¶97xii2947**
ISC	Poorly determined										

ISC	**XII**	**13 13 20 46**±1.4	**39.1N**±.16	**27.8E**±.33	**10**			**4**	**1-1**
ISK	XII	13 13 20 46.5	39.16N	27.66E	10	2.7D			¶97xii2950
ISC	Poorly determined								
ISK	**XII**	**13 13 41 23.8**	**39.03N**	**27.94E**	**10**	**2.8D**			¶97xii2952
ISK	**XII**	**13 15 26 12.3**	**39.32N**	**29.26E**	**6**	**2.6D**			¶97xii2967
ISK	**XII**	**14 02 16 28.7**	**39.29N**	**29.37E**	**5**	**2.5D**			¶97xii3064
ISK	**XII**	**15 02 54 46.1**	**40.70N**	**30.47E**	**10**	**2.6D**			¶97xii3232
ISC	**XII**	**15 11 55 43.9**±.77	**40.6N**±.11	**32.97E**±.066	**5**			**10**	**0-3**
ISK	XII	15 11 55 43.9	40.81N	32.86E	5	3.1D			¶97xii3279
ISC	**XII**	**15 12 45 13.0**±.81	**40.7N**±.11	**30.06E**±.055	**5**			**10**	**1-2**
ISK	XII	15 12 45 12.9	40.70N	30.04E	5	2.6D			¶97xii3287
ISC	**XII**	**15 15 29 32**±1.1	**40.53N**±.078	**36.9E**±.11	**10**			**7**	**0-1**
ISK	XII	15 15 29 33.1	40.58N	36.74E	10	2.9D			¶97xii3303
ISC	**XII**	**16 04 37 44.8**±.93	**40.7N**±.11	**30.06E**±.061	**7**			**8**	**1-2**
ISK	XII	16 04 37 44.7	40.71N	30.08E	7	2.7D			¶97xii3383
ISK	**XII**	**16 07 10 03.0**	**40.64N**	**36.73E**	**11**	**2.8D**			¶97xii3400
ISC	**XII**	**19 11 55 05.0**±.68	**40.75N**±.081	**27.34E**±.075	**6**			**14**	**0-3**
ISK	XII	19 11 55 05.8	40.68N	27.37E	6	3.1D			¶97xii3950
ISC	**XII**	**19 12 32 07**±1.4	**39.2N**±.15	**28.0E**±.26	**10**			**4**	**1-1**
ISK	XII	19 12 32 06.9	39.20N	27.93E	6	2.7D			¶97xii3962
NEIC	XII	19 12 32 07.4	39.17N	28.03E	10				
ISC	Poorly determined								
NEIC	Poor solution.								
ISC	**XII**	**19 18 06 37.7**±.97	**40.68N**±.046	**33.50E**±.043	**3**±7.7	**3.7b**,3.8s		**32**	**0-74**
ISK	XII	19 18 06 37.3	40.76N	33.48E	5	3.9D			¶97xii4011
NEIC	XII	19 18 06 38.3	40.65N	33.50E	10	3.4b			
EIDC	XII	19 18 06 45.7±6.82	40.6N	33.4E	58±67.1	3.5b,3.6s			
EIDC	Error ellipse is semi−major=34.5km semi−minor=20.5km azimuth=110								
ATH	**XII**	**19 20 07 14.6**	**39.18N**	**26.98E**	**10**				¶97xii4028
ISC	**XII**	**19 20 33 42**±2.6	**36.2N**±.23	**29.2E**±.14	**33**			**7**	**1-4**
ISK	XII	19 20 33 38.8	36.19N	29.20E	33	3.5D			¶97xii4033
NEIC	XII	19 20 33 42.0	36.19N	29.21E	33				
NEIC	Single network solution.								
ISC	**XII**	**21 05 44 31.4**±.53	**36.03N**±.056	**31.31E**±.091	**58**±16	3.6b		**29**	**1-28**
EIDC	XII	21 05 44 12.0	34.9N	33.2E	0	3.6b,3.9L			¶97xii4222
ISK	XII	21 05 44 28.0	35.99N	31.26E	6	3.8D			
NEIC	XII	21 05 44 29.1	35.97N	31.28E	10				
EIDC	Origin time error = 13.20Error ellipse is semi−major=202.1km semi−minor=63.9km azimuth=163								
ISC	**XII**	**22 09 34 56.8**±.91	**40.80N**±.099	**27.8E**±.11	**27**±12			**9**	**0-1**
ISK	XII	22 09 34 56.0	40.81N	27.90E	10	2.9D			¶97xii4394
NEIC	XII	22 09 34 56.6	40.80N	27.92E	10				
NEIC	Single network solution.								
ISC	**XII**	**23 07 30 35**±1.5	**40.8N**±.13	**27.8E**±.12	**10**			**5**	**0-1**
ISK	XII	23 07 30 37.5	40.64N	27.73E	10	2.7D			¶97xii4562
ISK	**XII**	**24 09 58 08.1**	**39.64N**	**29.56E**	**5**	**2.5D**			¶97xii4740
ISC	**XII**	**24 10 11 18**±3.7	**38.2N**±.10	**27.1E**±.49	**10**			**8**	**0-3**
ISK	XII	24 10 11 15.3	38.14N	26.96E	10	3.0D			¶97xii4743
ISC	**XII**	**24 15 21 45**±4.9	**40.7N**±.26	**27.9E**±.36	**10**			**4**	**0-1**
ISK	XII	24 15 21 41.6	40.82N	27.78E	5	2.8D			¶97xii4782
NEIC	XII	24 15 21 45.5	40.62N	27.97E	10				
ISC	Poorly determined								
NEIC	Poor solution.								
ISC	**XII**	**25 10 20 09**±1.5	**39.1N**±.27	**28.0E**±.42	**10**			**4**	**1-2**
ISK	XII	25 10 20 07.4	38.85N	28.31E	10	2.7D			¶97xii4908
ISC	Poorly determined								
ISC	**XII**	**25 11 54 59**±1.4	**39.1N**±.13	**27.6E**±.26	**10**			**4**	**1-1**
ISK	XII	25 11 54 57.8	39.18N	27.46E	10	2.7D			¶97xii4923
NEIC	XII	25 11 54 59.1	39.14N	27.52E	10				
ISC	Poorly determined								
NEIC	Poor solution.								
ISC	**XII**	**26 08 59 29**±1.3	**38.26N**±.098	**27.6E**±.15	**5**			**4**	**0-2**
ISK	XII	26 08 59 28.8	38.30N	27.61E	5	2.9D			¶97xii5088
NEIC	XII	26 08 59 29.6	38.29N	27.56E	10				
ISC	Poorly determined								
NEIC	Poor solution.								
ISC	**XII**	**26 09 23 32**±1.3	**39.2N**±.14	**27.9E**±.24	**10**			**4**	**1-1**
ISK	XII	26 09 23 32.2	39.21N	27.86E	14	2.7D			¶97xii5096
NEIC	XII	26 09 23 32.5	39.18N	27.88E	10				
ISC	Poorly determined								
NEIC	Poor solution.								
ISK	**XII**	**26 13 02 10.9**	**40.00N**	**28.86E**	**10**	**2.5D**			¶97xii5124
ISC	**XII**	**26 13 16 34**±6.7	**39.8N**±.27	**27.8E**±.50	**10**			**4**	**1-1**
ISK	XII	26 13 16 31.9	39.74N	27.68E	10	2.7D			¶97xii5129
ISC	Poorly determined								
ISK	**XII**	**26 14 02 58.2**	**39.70N**	**29.54E**	**10**	**2.6D**			¶97xii5139
NEIC	XII	26 14 02 58.6	39.70N	29.46E	10				
NEIC	Poor solution.								
ISC	**XII**	**26 14 41 04**±1.7	**39.2N**±.11	**26.2E**±.29	**13**±11			**5**	**0-2**
ATH	XII	26 14 41 04.9	39.20N	26.29E	10				¶97xii5149
ISC	Poorly determined								
ISC	**XII**	**27 05 40 06.9**±.78	**38.85N**±.078	**27.91E**±.097	**10**			**9**	**1-3**
ISK	XII	27 05 40 06.2	38.99N	27.68E	10	2.9D			¶97xii5257
NEIC	XII	27 05 40 07.0	38.87N	27.82E	10				
NEIC	MD2.9(ISK), Single network solution.								
ISC	**XII**	**28 05 59 51**±1.0	**40.0N**±.13	**40.56E**±.095	**10**			**8**	**1-4**
ISK	XII	28 05 59 58.6	39.85N	39.71E	10	3.3D			¶97xii5407
ISK	**XII**	**28 07 23 36.7**	**39.67N**	**29.52E**	**10**	**2.6D**			¶97xii5418
ISC	**XII**	**28 20 46 37.9**±.22	**39.77N**±.024	**26.88E**±.027	**10**	**4.1b**,3.1s		**123**	**1-97**
ISK	XII	28 20 46 32.7	39.94N	26.47E	10	4.0D			¶97xii5496
ATH	XII	28 20 46 36.9	39.86N	27.01E	5	4.2L			
EIDC	XII	28 20 46 37.2±.64	39.7N	26.9E	0	4.0b,4.0L			
THE	XII	28 20 46 37.7	39.8N	27.0E	15	3.9L			
NEIC	XII	28 20 46 38.0	39.79N	26.91E	10	4.0b,3.3s			
EIDC	Error ellipse is semi−major=15.7km semi−minor=13.7km azimuth=84								
ISC	**XII**	**29 10 15 47**±3.2	**39.2N**±.17	**27.3E**±.41	**15**			**4**	**1-2**
ISK	XII	29 10 15 47.8	39.24N	27.36E	15	2.5D			¶97xii5572
ISC	Poorly determined								
ISC	**XII**	**29 11 47 39**±2.1	**39.0N**±.32	**28.1E**±.48	**10**			**4**	**1-2**
ISK	XII	29 11 47 38.4	38.83N	28.28E	10	2.7D			¶97xii5577
ISC	Poorly determined								
ISC	**XII**	**30 14 51 00**±1.5	**40.3N**±.12	**29.1E**±.10	**10**			**5**	**0-1**
NEIC	XII	30 14 50 59.5	40.31N	29.15E	10				¶97xii5748
ISK	XII	30 14 50 59.8	40.34N	29.15E	5	2.7D			
NEIC	Single network solution.								
ISC	**XII**	**30 16 18 43**±1.5	**39.82N**±.076	**28.71E**±.070	**3**±11			**15**	**0-3**
ISK	XII	30 16 18 43.0	39.84N	28.80E	9	3.3D			¶97xii5756
NEIC	XII	30 16 18 43.3	39.83N	28.78E	10				
NEIC	Single network solution.								
ISC	**XII**	**31 07 17 51**±1.5	**40.84N**±.084	**27.79E**±.071	**1**±13			**12**	**0-2**
ISK	XII	31 07 17 51.2	40.85N	27.81E	10	3.0D			¶97xii5851
NEIC	XII	31 07 17 52.0	40.79N	27.80E	10				
NEIC	Poor solution.								
ISC	**XII**	**31 07 35 18**±3.4	**40.2N**±.15	**26.1E**±.32	**10**			**8**	**1-3**
ISK	XII	31 07 35 25.5	39.86N	26.87E	13	2.9D			¶97xii5854
NEIC	XII	31 07 35 26.2	39.82N	26.91E	10				
NEIC	Single network solution.								
ISC	**XII**	**31 12 47 10**±4.2	**38.7N**±.33	**28.4E**±.42	**10**			**4**	**1-2**
NEIC	XII	31 12 47 09.6	38.69N	28.54E	10				¶97xii5898
ISK	XII	31 12 47 09.8	38.69N	28.48E	10	2.7D			
ISC	Poorly determined								
NEIC	Poor solution.								
ISC	**XII**	**31 13 10 42**±1.3	**39.82N**±.077	**28.6E**±.15	**10**			**5**	**0-1**
ISK	XII	31 13 10 41.0	39.77N	28.53E	10	2.6D			¶97xii5902
NEIC	XII	31 13 10 42.0	39.81N	28.61E	10				
NEIC	Single network solution.								

(367) Turkey-USSR border region.

ISK	**VIII**	**26 22 44 45.7**	**40.07N**	**43.14E**	**10**	**3.5D**			¶97viii3915

(368) Southern Greece.

ATH	**VII**	**02 22 31 24.8**	**36.71N**	**22.19E**	**10**				¶97vii0311
ISC	**VII**	**03 12 20 54**±1.3	**37.38N**±.070	**22.9E**±.10	**10**±12			**13**	**1-4**
THE	VII	03 12 20 55.2	37.4N	22.9E	10	3.1L			¶97vii0409
ATH	VII	03 12 20 55.2	37.38N	22.85E	8	2.7L			
ISC	**VII**	**04 02 11 09.7**±.93	**36.87N**±.087	**21.02E**±.054	**5**			**24**	**1-25**
ATH	VII	04 02 11 14.7	36.90N	21.32E	5	3.4L			¶97vii0481
ROM	VII	04 02 11 17.9	37.0N	20.5E	10	3.4D			
THE	VII	04 02 11 20.5	37.2N	21.8E	27	3.1L			
ISC	**VII**	**05 09 44 00.1**±.75	**37.45N**±.053	**22.1E**±.11	**1**			**16**	**0-6**
THE	VII	05 09 44 01.5	37.4N	22.0E	1	3.0L			¶97vii0710
ATH	VII	05 09 44 01.6	37.08N	21.73E	5				
ISC	**VII**	**05 10 06 11**±1.9	**37.16N**±.095	**21.26E**±.075	**9**±19			**21**	**1-6**
ATH	VII	05 10 06 17.4	37.07N	21.72E	5	3.1D			¶97vii0711
THE	VII	05 10 06 17.6	37.4N	21.9E	2	3.2L			
ISC	**VII**	**06 00 00 12**±3.0	**37.4N**±.17	**21.1E**±.25	**5**			**8**	**1-4**
ATH	VII	06 00 00 08.0	37.30N	20.72E	5				¶97vii0811
THE	VII	06 00 00 11.5	37.4N	21.0E	3	3.0L			
ATH	**VII**	**06 11 49 33.3**	**37.50N**	**21.58E**	**5**	**3.0L**			¶97vii0879
ATH	**VII**	**09 02 04 31.3**	**37.22N**	**21.82E**	**10**				¶97vii1274
ISC	**VII**	**09 14 13 37**±2.7	**37.1N**±.20	**21.7E**±.19	**13**			**4**	**0-2**
ATH	VII	09 14 13 38.2	37.05N	21.67E	13	2.9D			¶97vii1350
ISC	Poorly determined								
ATH	**VII**	**09 18 03 31.8**	**37.08N**	**22.05E**	**10**				¶97vii1376
ISC	**VII**	**09 19 44 25**±1.8	**37.1N**±.12	**21.3E**±.17	**5**			**7**	**0-13**
ATH	VII	09 19 44 28.8	37.28N	21.47E	5	3.0D			¶97vii1386
ISC	**VII**	**21 01 16 43.6**±.97	**36.52N**±.074	**21.57E**±.078	**5**	3.6b		**26**	**1-25**
ATH	VII	21 01 16 48.2	36.49N	21.88E	5	3.6L			¶97vii3170
THE	VII	21 01 16 49.0	36.6N	22.0E	10	3.2L			
EIDC	VII	21 01 17 00.8	38.5N	20.6E	0	3.3b,3.6L			
ATH	**VII**	**22 23 28 48.0**	**37.16N**	**21.88E**	**35**				¶97vii3452
ATH	**VII**	**23 03 18 57.5**	**37.86N**	**21.18E**	**10**				¶97vii3473
ISC	**VII**	**26 15 00 40.8**±.67	**37.84N**±.036	**21.09E**±.039	**26**±6.1	**4.1b**,3.3s		**79**	**1-120**
EIDC	VII	26 15 00 38.3	37.9N	21.3E	0	4.2b,3.9L			¶97vii3974
ATH	VII	26 15 00 41.0	37.87N	21.17E	5	4.0L			
NEIC	VII	26 15 00 41.3	37.82N	21.40E	33	4.1b			
THE	VII	26 15 00 41.9	37.9N	21.2E	0	3.7L			
PDG	VII	26 15 00 52.9	38.6N	20.4E	45	3.8L			
NEIC	Less reliable solution.								
ATH	**VII**	**28 05 49 16.6**	**37.15N**	**23.66E**	**10**				¶97vii4212
ATH	**VII**	**28 19 31 04.9**	**37.13N**	**21.92E**	**35**				¶97vii4321
ISC	**VII**	**28 22 29 35**±1.3	**38.0N**±.11	**21.2E**±.15	**5**			**4**	**1-2**
ATH	VII	28 22 29 36.6	38.01N	21.19E	5	2.6D			¶97vii4336
ISC	Poorly determined								
ISC	**VII**	**30 17 18 37**±4.6	**36.8N**±.18	**21.7E**±.21	**5**±32			**6**	**0-2**
ATH	VII	30 17 18 37.2	36.72N	21.60E	5	3.2D			¶97vii4613
NEIC	VII	30 17 18 37.8	36.81N	21.68E	10				
NEIC	Single network solution.								
ATH	**VIII**	**01 02 05 50.9**	**36.61N**	**22.23E**	**10**				¶97viii0008
ISC	**VIII**	**01 02 17 20**±1.4	**36.4N**±.14	**21.9E**±.11	**10**			**5**	**1-7**
ATH	VIII	01 02 17 20.8	36.41N	21.95E	10				¶97viii0010
ATH	**VIII**	**01 15 37 17.0**	**37.94N**	**24.51E**	**5**	**2.7L**			¶97viii0085
ATH	**VIII**	**01 23 10 58.7**	**36.30N**	**23.90E**	**10**				¶97viii0130
ISC	**VIII**	**02 04 44 23.5**±.82	**37.92N**±.070	**24.32E**±.091	**5**			**10**	**0-3**
ATH	VIII	02 04 44 24.8	37.89N	24.39E	5	2.8L			¶97viii0171
THE	VIII	02 04 44 25.6	37.9N	24.3E	17	3.3L			
ATH	**VIII**	**02 04 57 23.3**	**37.47N**	**21.16E**	**5**	**3.3D**			¶97viii0173
ISC	**VIII**	**05 09 30 19**±2.5	**37.9N**±.12	**22.7E**±.24	**5**			**4**	**1-2**
ATH	VIII	05 09 30 21.2	37.91N	22.68E	5	2.6D			¶97viii0646
ISC	Poorly determined								
ATH	**VIII**	**06 11 47 32.1**	**37.82N**	**23.60E**	**10**	**1.9L**			¶97viii0795
ATH	**VIII**	**06 18 27 27.0**	**37.31N**	**21.64E**	**15**	**2.5D**			¶97viii0827
ISC	**VIII**	**07 21 49 12.7**±.84	**37.33N**±.079	**24.92E**±.083	**5**			**8**	**1-3**
ATH	VIII	07 21 49 13.9	37.41N	25.00E	5	3.4L			¶97viii1006
ISC	**VIII**	**10 19 11 17.5**±.72	**37.73N**±.055	**22.88E**±.079	**3**			**12**	**1-3**
THE	VIII	10 19 11 19.0	37.7N	22.9E	3	2.7L			¶97viii1444
ATH	VIII	10 19 11 19.0	37.72N	22.95E	5	2.7L			
ISC	**VIII**	**10 20 12 52**±7.1	**37.1N**±.52	**21.1E**±.53	**5**			**4**	**1-2**
ATH	VIII	10 20 12 55.3	37.36N	21.34E	5	3.1L			¶97viii1452
ISC	Poorly determined								
ATH	**VIII**	**11 07 13 28.9**	**37.69N**	**21.73E**	**12**	**3.2D**			¶97viii1521
ISC	**VIII**	**11 21 22 25**±1.6	**37.08N**±.058	**21.38E**±.051	**9**±13	3.8b		**35**	**0-25**
ATH	VIII	11 21 22 25.2	36.99N	21.31E	5	3.5L			¶97viii1628
THE	VIII	11 21 22 27.8	37.1N	21.6E	9	3.6L			
ATH	**VIII**	**12 00 58 45.8**	**36.45N**	**23.10E**	**10**				¶97viii1656
ISC	**VIII**	**13 05 58 34**±1.9	**36.9N**±.14	**22.2E**±.12	**5**			**11**	**0-4**
ATH	VIII	13 05 58 33.9	36.77N	22.07E	5	3.1L			¶97viii1859
THE	VIII	13 05 58 34.5	36.8N	22.1E	3	3.1L			
ATH	**VIII**	**13 08 21 35.8**	**37.80N**	**21.12E**	**5**	**2.8D**			¶97viii1876
ISC	**VIII**	**15 04 00 49**±1.1	**36.14N**±.086	**21.75E**±.059	**1**			**29**	**1-7**
THE	VIII	15 04 00 52.6	36.3N	21.9E	1	3.5L			¶97viii2158
ATH	VIII	15 04 00 54.2	36.33N	22.02E	7	3.5D			
ISC	**VIII**	**16 03 49 39**±7.3	**36.3N**±.48	**22.1E**±.20	**5**			**6**	**1-3**
ATH	VIII	16 03 49 39.2	36.24N	22.10E	5	3.2L			¶97viii2312
THE	VIII	16 03 49 44.7	36.6N	22.3E	2	3.2L			
ATH	**VIII**	**17 17 55 25.1**	**37.57N**	**21.40E**	**15**	**2.9D**			¶97viii2570
ISC	**VIII**	**17 19 26 13**±1.5	**37.6N**±.16	**21.4E**±.22	**5**			**4**	**1-2**
ATH	VIII	17 19 26 14.9	37.68N	21.44E	5	2.8D			¶97viii2575
ISC	Poorly determined								

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 18 08 07 43**±1.1	**37.62N**±.086	**21.4E**±.13	**8**	3.1b	**12**	**1-24**
THE	VIII 18 08 07 43.5	37.6N	21.4E	8	3.3L		¶97viii2641
ATH	VIII 18 08 07 43.9	37.65N	21.48E	5	3.3D		
ISC	**VIII 19 15 25 36**±1.3	**37.88N**±.072	**21.2E**±.12	**4**		**10**	**0-3**
THE	VIII 19 15 25 40.3	38.0N	21.6E	4	3.2L		¶97viii2826
ATH	VIII 19 15 25 40.8	37.86N	21.48E	8	3.2L		
ISC	**VIII 20 00 57 47**±1.2	**37.79N**±.093	**22.5E**±.14	**10**		**4**	**1-1**
ATH	VIII 20 00 57 48.0	37.78N	22.45E	10	2.7L		¶97viii2889
ISC	Poorly determined						
ATH	**VIII 20 19 08 39.8**	**37.72N**	**21.47E**	**10**	**2.6D**		¶97viii3003
ATH	**VIII 20 22 31 36.2**	**37.73N**	**21.41E**	**10**	**2.7D**		¶97viii3027
ISC	**VIII 21 15 52 14.6**±.98	**36.62N**±.085	**21.85E**±.064	**54**±8.5	**3.9b**	**38**	**1-60**
NEIC	VIII 21 15 52 15.0	36.81N	22.65E	33	3.7b		¶97viii3116
THE	VIII 21 15 52 16.9	36.8N	22.1E	2	3.5L		
ATH	VIII 21 15 52 18.6	36.96N	22.12E	5	3.5L		
EIDC	VIII 21 15 52 20.5	36.9N	22.5E	65	3.6b		
NEIC	Less reliable solution.						
ISC	**VIII 22 07 26 56**±1.2	**37.59N**±.092	**21.4E**±.14	**5**		**8**	**1-4**
ATH	VIII 22 07 26 57.8	37.60N	21.39E	5	3.2D		¶97viii3193
THE	VIII 22 07 26 58.1	37.6N	21.4E	3	3.2L		
ISC	**VIII 22 19 29 13**±1.1	**37.65N**±.069	**23.41E**±.086	**8**±13		**10**	**0-4**
ATH	VIII 22 19 29 14.6	37.62N	23.41E	5	2.7L		¶97viii3269
THE	VIII 22 19 29 15.7	37.7N	23.5E	9	2.7L		
ATH	**VIII 23 06 39 24.7**	**37.53N**	**21.33E**	**15**	**2.9D**		¶97viii3356
ATH	**VIII 23 08 19 57.3**	**36.87N**	**24.08E**	**5**	**3.0D**		¶97viii3366
ATH	**VIII 23 09 28 34.8**	**36.13N**	**24.09E**	**36**	**2.9D**		¶97viii3380
ATH	**VIII 23 17 02 06.8**	**36.75N**	**23.95E**	**5**	**2.9D**		¶97viii3426
ATH	**VIII 27 18 35 37.3**	**37.54N**	**21.79E**	**5**			¶97viii4023
ISC	**VIII 27 20 57 27**±1.3	**37.8N**±.10	**22.0E**±.21	**12**		**4**	**1-1**
ATH	VIII 27 20 57 28.1	37.81N	21.94E	12	2.5D		¶97viii4035
ISC	Poorly determined						
ISC	**VIII 31 08 47 37**±1.5	**36.2N**±.11	**22.7E**±.15	**2**		**9**	**1-4**
THE	VIII 31 08 47 37.6	36.2N	22.7E	2	3.3L		¶97viii4625
ATH	VIII 31 08 47 38.2	36.22N	22.74E	5	3.3L		
ISC	**IX 01 16 12 36**±1.3	**37.5N**±.13	**21.7E**±.22	**3**		**4**	**0-1**
ATH	IX 01 16 12 37.3	37.45N	21.67E	3	2.9D		¶97ix0134
ISC	Poorly determined						
ISC	**IX 02 09 24 33**±1.6	**37.4N**±.19	**21.7E**±.27	**5**		**4**	**0-2**
ATH	IX 02 09 24 33.6	37.38N	21.65E	5	2.7D		¶97ix0251
ISC	Poorly determined						
ISC	**IX 03 17 39 10**±3.0	**37.3N**±.24	**21.4E**±.28	**5**		**4**	**0-2**
ATH	IX 03 17 39 11.5	37.30N	21.42E	5	2.8D		¶97ix0454
ISC	Poorly determined						
ISC	**IX 04 22 36 38**±1.0	**37.52N**±.075	**21.7E**±.12	**2**		**8**	**0-4**
ATH	IX 04 22 36 38.5	37.47N	21.62E	2	3.0L		¶97ix0646
THE	IX 04 22 36 38.9	37.5N	21.7E	2	2.9L		
ISC	**IX 05 13 27 35**±1.4	**37.4N**±.14	**21.7E**±.23	**5**		**4**	**0-2**
ATH	IX 05 13 27 35.8	37.36N	21.69E	5	2.7D		¶97ix0748
ISC	Poorly determined						
ISC	**IX 05 14 01 28**±2.1	**36.9N**±.12	**23.2E**±.20	**5**		**6**	**0-2**
ATH	IX 05 14 01 28.1	36.85N	23.30E	5	3.1L		¶97ix0751
THE	IX 05 14 01 28.2	36.9N	23.3E	0			
ATH	**IX 07 17 03 21.3**	**37.47N**	**22.42E**	**2**	**2.7D**		¶97ix1105
ISC	**IX 07 22 13 30**±1.2	**37.50N**±.083	**21.7E**±.13	**3**		**6**	**0-2**
THE	IX 07 22 13 31.5	37.5N	21.7E	3			¶97ix1132
ATH	IX 07 22 13 31.7	37.49N	21.69E	5	3.0L		
ISC	**IX 08 12 18 27**±2.3	**37.6N**±.13	**22.9E**±.10	**104**±31		**20**	**1-4**
THE	IX 08 12 18 28.2	37.8N	23.0E	10	3.1L		¶97ix1220
ATH	IX 08 12 18 28.5	37.64N	22.85E	88	3.3L		
ATH	**IX 09 05 42 31.3**	**37.86N**	**22.98E**	**10**	**2.5D**		¶97ix1329
ATH	**IX 10 02 56 31.6**	**37.93N**	**21.19E**	**10**	**2.8D**		¶97ix1468
ATH	**IX 10 04 10 23.4**	**37.17N**	**22.39E**	**5**	**2.9L**		¶97ix1472
ISC	**IX 22 21 06 19**±1.2	**37.7N**±.11	**21.7E**±.20	**5**		**4**	**1-1**
ATH	IX 22 21 06 20.0	37.76N	21.75E	5	2.8D		¶97ix3327
ISC	Poorly determined						
ISC	**IX 22 21 42 37**±1.4	**37.8N**±.10	**21.6E**±.14	**10**		**4**	**1-2**
ATH	IX 22 21 42 38.0	37.80N	21.61E	10	2.9D		¶97ix3329
THE	IX 22 21 42 39.2	37.8N	21.6E	28			
ISC	Poorly determined						
ISC	**IX 22 23 00 20**±1.7	**37.6N**±.12	**21.4E**±.17	**10**		**4**	**1-2**
ATH	IX 22 23 00 21.1	37.50N	21.25E	10			¶97ix3336
THE	IX 22 23 00 21.3	37.6N	21.3E	11			
ISC	Poorly determined						
ISC	**IX 23 05 16 40**±1.4	**37.6N**±.11	**21.7E**±.24	**5**		**4**	**0-1**
ATH	IX 23 05 16 41.5	37.60N	21.69E	5	3.0D		¶97ix3379
ISC	Poorly determined						
ATH	**IX 23 19 33 43.8**	**36.39N**	**22.72E**	**10**	**2.8D**		¶97ix3466
ISC	**IX 23 22 07 45.3**±.84	**37.72N**±.055	**21.64E**±.093	**5**		**16**	**1-4**
ATH	IX 23 22 07 45.8	37.71N	21.63E	5	3.3L		¶97ix3486
THE	IX 23 22 07 48.8	37.8N	22.0E	0	2.9L		
ISC	**IX 25 06 56 23**±1.2	**37.72N**±.089	**21.4E**±.14	**5**		**5**	**1-2**
ATH	IX 25 06 56 24.0	37.64N	21.33E	5	2.8D		¶97ix3697
THE	IX 25 06 56 24.2	37.7N	21.4E	5			
ISC	**IX 25 07 25 54.8**±.92	**36.12N**±.079	**24.20E**±.089	**5**		**6**	**1-3**
ATH	IX 25 07 25 56.1	36.10N	24.07E	5	3.2D		¶97ix3700
ISC	**IX 26 03 34 54.1**±.82	**36.92N**±.076	**21.11E**±.050	**27**		**27**	**1-6**
ATH	IX 26 03 34 57.0	37.01N	21.23E	27	3.3L		¶97ix3859
THE	IX 26 03 34 57.8	37.1N	21.3E	22	3.4L		
ATH	**IX 26 07 24 35.0**	**37.87N**	**21.02E**	**10**	**2.7D**		¶97ix3905
ISC	**IX 26 11 11 11**±2.9	**37.6N**±.12	**21.4E**±.19	**14**±34		**5**	**1-2**
THE	IX 26 11 11 11.6	37.6N	21.3E	11			¶97ix3967
ATH	IX 26 11 11 12.0	37.58N	21.26E	5	3.0D		
ISC	Poorly determined						
ISC	**IX 26 11 14 55**±1.3	**37.72N**±.089	**21.6E**±.16	**10**		**4**	**1-1**
ATH	IX 26 11 14 56.1	37.72N	21.65E	10			¶97ix3971
THE	IX 26 11 14 56.2	37.7N	21.5E	18			
ISC	Poorly determined						
ISC	**IX 26 22 13 31**±1.1	**37.71N**±.077	**21.3E**±.13	**5**		**8**	**1-4**
ATH	IX 26 22 13 32.5	37.58N	21.25E	5	3.0D		¶97ix4158
THE	IX 26 22 13 33.0	37.7N	21.4E	1			
ATH	**IX 28 00 55 24.9**	**37.55N**	**22.11E**	**10**	**3.0D**		¶97ix4499
ATH	**IX 28 20 44 20.1**	**37.51N**	**21.33E**	**10**	**2.8D**		¶97ix4755
ISC	**IX 29 17 51 00**±1.8	**36.1N**±.15	**21.02E**±.074	**47**±13	**3.7b**	**25**	**1-60**
EIDC	IX 29 17 50 57.3	36.2N	21.4E	0	3.8b		¶97ix4998
THE	IX 29 17 50 58.9	36.2N	21.0E	3	3.3L		
ATH	IX 29 17 51 05.6	37.97N	22.66E	10	3.1D		
ISC	**IX 30 12 50 36**±3.1	**36.9N**±.20	**21.5E**±.21	**5**		**4**	**0-2**
ATH	IX 30 12 50 36.1	36.77N	21.42E	5	3.1D		¶97ix5231
ISC	Poorly determined						
ISC	**X 02 05 04 33**±2.5	**37.5N**±.12	**22.9E**±.29	**14**		**4**	**1-2**
ATH	X 02 05 04 34.0	37.50N	22.90E	14	2.5D		¶97x0211
ISC	Poorly determined						
ATH	**X 02 11 12 26.2**	**37.33N**	**21.80E**	**10**	**2.6D**		¶97x0267
ATH	**X 02 18 33 01.3**	**37.75N**	**22.92E**	**10**	**2.9D**		¶97x0324
ISC	**X 03 02 51 25**±1.3	**37.64N**±.095	**21.4E**±.15	**5**		**6**	**1-2**
ATH	X 03 02 51 25.6	37.52N	21.26E	5	3.0D		¶97x0372
THE	X 03 02 51 25.8	37.6N	21.4E	1			
ISC	**X 03 23 03 49**±2.1	**37.7N**±.10	**21.4E**±.17	**2**±34		**6**	**0-2**
ATH	X 03 23 03 50.0	37.69N	21.38E	5	3.2D		¶97x0544
THE	X 03 23 03 50.3	37.7N	21.4E	3			
ISC	**X 04 14 11 38**±2.1	**36.9N**±.13	**21.43E**±.098	**26**±14		**18**	**0-6**
ATH	X 04 14 11 39.8	36.91N	21.53E	25	3.4D		¶97x0661
THE	X 04 14 11 40.8	37.0N	21.6E	24			
ISC	**X 07 16 42 17.0**±.75	**36.21N**±.057	**21.12E**±.045	**43**±7.3	**4.0b**	**66**	**1-121**
NEIC	X 07 16 42 16.1	36.19N	21.31E	32	4.0b		¶97x1279
THE	X 07 16 42 17.9	36.3N	21.2E	15	3.7L		
EIDC	X 07 16 42 18.2	36.2N	21.4E	31	4.0b,3.9L		
ATH	X 07 16 42 19.7	36.24N	21.34E	33	3.8L		
ISC	**X 08 00 00 40**±1.3	**37.9N**±.11	**21.3E**±.17	**8**		**4**	**1-2**
ATH	X 08 00 00 41.6	37.89N	21.25E	8	2.7D		¶97x1326
ISC	Poorly determined						
ATH	**X 08 02 02 19.9**	**36.75N**	**22.99E**	**25**			¶97x1338
ATH	**X 08 09 59 49.5**	**37.46N**	**21.90E**	**10**			¶97x1385
ISC	**X 08 12 09 43.7**±.81	**36.71N**±.068	**21.14E**±.056	**5**	**3.8b**	**34**	**1-78**
ATH	X 08 12 09 43.4	36.57N	21.07E	5	3.8L		¶97x1415
THE	X 08 12 09 43.9	36.6N	21.1E	3			
EIDC	X 08 12 09 54.9	38.0N	22.8E	0	3.6b		
ISC	**X 08 23 24 31**±4.8	**36.3N**±.31	**21.2E**±.27	**10**		**10**	**1-5**
THE	X 08 23 24 29.9	36.2N	21.1E	10			¶97x1491
ATH	X 08 23 24 32.8	36.25N	21.24E	28	3.2D		
ISC	**X 11 03 13 48**±1.2	**37.70N**±.067	**22.03E**±.085	**8**±13		**16**	**1-6**
ATH	X 11 03 13 49.1	37.68N	22.07E	5	3.0L		¶97x1837
ISC	**X 11 23 01 39**±1.4	**37.75N**±.064	**21.15E**±.096	**5**±9.0	**4.0b**	**26**	**0-32**
ATH	X 11 23 01 41.5	37.80N	21.28E	5	3.3L		¶97x1952
THE	X 11 23 01 42.3	37.8N	21.3E	0	3.0L		
EIDC	X 11 23 01 51.6	39.3N	21.6E	0	3.9b		
ISC	**X 12 03 48 00**±1.6	**37.80N**±.099	**21.2E**±.14	**5**		**4**	**0-1**
ATH	X 12 03 48 01.8	37.81N	21.23E	5			¶97x1983
ISC	Poorly determined						
ISC	**X 13 13 39 36.0**±.78	**36.35N**±.020	**22.10E**±.014	**13**±4.6	**6.2b,6.5s**	**819**	**1-158**
EIDC	X 13 13 39 34.6	36.5N	22.4E	0	6.1b,6.5s		¶97x2232
BJI	X 13 13 39 36.2	36.39N	22.21E	25	6.3b,6.5s		
NEIC	X 13 13 39 37.4	36.38N	22.07E	24	6.2b,6.6s		
MOS	X 13 13 39 38.5	36.4N	22.1E	33	6.5b,6.4s		
ATH	X 13 13 39 39.2	36.41N	22.18E	6	5.6L		
PDG	X 13 13 39 39.3	36.3N	21.0E	10	6.3D		
THE	X 13 13 39 40.0	36.4N	22.2E	13	5.8L		
CSEM	X 13 13 39 41.9	36.23N	21.95E	30			
HRVD	X 13 13 39 46.6±.1	36.10N±.01	22.04E±.02	44±.7			

NEIC Ms6.7(BRK), Mw6.5(CSEM). Damage.

NEIC Radiated energy from the P−wave first−motion solution: $4.8\pm0.9\times10^{13}$Nm/25

NEIC Mw 6.4 (GS), 6.4 (HRV). Me 6.2 (GS). Minor damage in southern Peloponnisos. Felt strongly at Athens. Felt throughout Greece, including Crete.

NEIC Moment tensor solution: s48, scale 10^{18}Nm; M_{rr}2.51; $M_{\theta\theta}$−2.57; $M_{\phi\phi}$0.06; $M_{r\theta}$2.78; $M_{r\phi}$−1.62; $M_{\theta\phi}$0.44. Depth 26km; Principal axes: T 4.16,Plg62°,Azm42°; N −0.08,Plg10°, Azm292°; P −4.08,Plg25°,Azm197°. Best double couple: M_O4.1×10^{18}Nm; NP1:ϕ_S264°,δ22°, λ61°. NP2:ϕ_S115°,δ71°,λ101°.

NEIC Broadband fault plane solution: P waves. NP1:ϕ_S119°,δ71°,λ80°. NP2:ϕ_S327°,δ21°,λ117°. Principal axes: T Plg63°,Azm13°; P Plg25°,Azm217°. Complex earthquake, with at least three larger events occurring about 1, 3 and 5 seconds after the onset. Depth from synthetics of broadband displacement seismograms based on second event.

ATH Felt in the regions of Messinia, I=VI−VII MCS at Koroni, VI at Vasilitsi, V−VI at Messini, Strephi, Platy, Petalidi, Kampos, Thouria, Avrami, V at Zevgolateio, Kyparissia, Philiatra, Achladochori, Androusa, Vasiliko, Ilkaina, Kopanaki, Kremmydi, Maniaki, Medousa, Nea−Koroni, Oichalia, Pyrgos, Pilalistra, Proastio, Sidirokastro, Zerbisia, Psari, Methoni, Eva, Kaplani, IV−V at Pylos, Spilia, Arphara, Ampheia, IV at Gargalianoi, Aetos, Dori, Kephalovryso; in Lakonia, V−VI at Vrondamas, Skala, Stephania, V at Gytheio, Agios−Ioannis, Amykles, Gerolimenas, Elos, Karvelas, Konakia, Oitylos, IV−V at Sparti, Kato−Glykovrysi, Lampokampos, Longastra, Elaia, IV at Molaoi, Velies, Agios−Nikolaos−Voion, Agios−Dimitrios, Megali−Spilia, Anogeia, Vasaras, Vresthena, Geraki, Daimonia, Daphni, Elliniko, Elaphonisos, Kastoreio, Karyes, Loukonikos, Magoula, Mystras, Niata, Xirokampi , Papadianika, Reichea, Sykea, Phoinikio Katavothra, III at Apidea, Kyparrisio; in Arkadia IV at Astros, Megalopoli, Leonidio, Kollines, Kato−Doliana, Dimitsana, Tropaia; in Eleia, IV at Andravida, Zacharo, Krestena, Kardamas, Myrsini, Pelopio, Tragano, Savalia, Chavario, III at Gastouni, Goumero; in Argolida, IV at Nafplio, Kranidi, Ermioni, Arachnaio, Koutsopodi, Nea−Kios, III at Lygourio.

ATH Felt in the regions of Achaia I=IV MCS at Diakophto, Kato−Kleitoria, III at Daphni, Rododaphni, Lakkopetra, Lousika, Chalandritsa, Temeni, Vrachnaika; in Korinthia, IV at Archaia−Korinthos, Xylokastro, Nemea, Isthmia, Chiliomodi, Examilia, Velo, Athikia, III at Zevgolateio; in Aitoloakarnania, IV at Neochori, Astakos, Aitoliko, III at Agrinio, Amphilochia, Panaitolio, Nafpaktos; in Phokida, IV at Chryso, III at Galaxeidi, Desphina, Delphoi; in Boeotia, IV at Thespies, III at Agios−Ioannis, Antikyra; in Attiki, IV at Megara, Kiphisia, III at Athina, Kamatero; in Phthiotida, III at Kamena−Vourla, Agios−Konstantinos; in Karditsa, III at Karditsa, Mataranka, Mouzaki, Agnantero; in Pieria, III at Moschochori; and on the islands of Crete, IV at Khania, Perivoli, Nerokouros, Mournies, Kissamos, Kalyves, Daratsos, III at Souda, Sternes; on Herakleio, III at Tympaki, Nea−Alikarnasos; on Zakynthos, IV at Pantokratoras, Mouzaki; on Euobea, III at Istiaia, Karystos, Kymi, Lythakia; on Kea, III at Kea; on Naxos, III at Naxos.

CSEM Mw6.5. M_O=7.3×10^{18}Nm. Fault plane solution NP1:ϕ_S150°,δ70°,λ105°. NP2:ϕ_S292°,δ25°, λ55°. Principal Axes: T Plg62°,Azm83°; N Plg14°,Azm325°; P Plg24°,Azm228°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c116; Mantle waves: s30,c53; Half duration: 1s0. Moment tensor: Scale 10^{18}Nm; M_{rr}2.90±.04; $M_{\theta\theta}$−2.51±.04; $M_{\phi\phi}$−0.39±.04; $M_{r\theta}$3.36±.08; $M_{r\phi}$−1.84±.08; $M_{\theta\phi}$1.60±.04. Principal Axes: T 4.71,Plg65°,Azm29°; N 0.47,Plg0°,Azm298°; P −5.19,Plg25°,Azm208°. Best double couple: M_O4.9×10^{18}Nm, NP1:ϕ_S298°,δ20°,λ89°. NP2:ϕ_S119°,δ70°,λ90°.

ISC	**X 13 13 58 39**±1.4	**36.4N**±.11	**21.81E**±.081	**5**		**16**	**1-25**
ATH	X 13 13 58 41.1	36.42N	21.96E	5	3.5L		¶97x2234
ISC	**X 13 14 48 20**±1.4	**36.2N**±.11	**21.88E**±.064	**57**±8.9	**3.7b**	**39**	**1-131**
EIDC	X 13 14 48 15.4	36.3N	22.2E	0	3.8b		¶97x2238
NEIC	X 13 14 48 18.4	36.27N	22.11E	33			
ATH	X 13 14 48 19.8	36.32N	21.91E	5	3.7L		
THE	X 13 14 48 20.8	36.4N	21.8E	1	3.3L		
NEIC	Poor solution.						
ISC	**X 13 15 10 48**±1.7	**36.8N**±.16	**22.4E**±.11	**5**	**3.9b**	**9**	**0-33**
ATH	X 13 15 10 49.5	36.77N	22.36E	5	3.1L		¶97x2241
EIDC	X 13 15 11 03.1	38.4N	19.2E	0	3.7b		
ISC	**X 13 16 15 38.0**±.64	**36.45N**±.051	**22.04E**±.044	**56**±6.3	**4.3b**	**79**	**1-121**
NEIC	X 13 16 15 36.2	36.56N	22.44E	33	4.4b		¶97x2248
ATH	X 13 16 15 37.2	36.36N	22.11E	7	3.7L		
EIDC	X 13 16 15 37.6	36.5N	22.4E	30	4.3b,4.2L		

PDG	X	13 16 15 38.2	36.4N	21.0E	10	4.2L			
THE	X	13 16 15 39.0	36.5N	22.2E	15	3.7L			
ISC	**X**	**13 16 26 34**±1.5	**36.68N**±.067	**21.72E**±.056	**7**±9.8	**3.8b**	**46**	**1-121**	
EIDC	X	13 16 26 32.9	37.0N	22.3E	0	3.8b,3.9L			¶97x2249
ATH	X	13 16 26 35.5	36.73N	21.81E	3	3.6L			
NEIC	X	13 16 26 35.7	36.94N	22.00E	33				
THE	X	13 16 26 43.1	36.9N	22.3E	17	3.4L			
ISC	**X**	**13 17 13 28.8**±.51	**36.47N**±.040	**22.09E**±.034	**58**±5.1	**4.3b**	**131**	**1-97**	
EIDC	X	13 17 13 23.2	36.5N	22.3E	0	4.3b,4.0L			¶97x2254
BJI	X	13 17 13 26.0	36.40N	22.20E	33	4.5b			
NEIC	X	13 17 13 26.0	36.42N	22.22E	33	4.1b			
PDG	X	13 17 13 26.1	36.2N	21.1E	10	4.5L			
THE	X	13 17 13 27.7	36.3N	22.1E	14	4.0L			
ATH	X	13 17 13 29.5	36.39N	22.18E	22	3.8L			
ATH	**X**	**13 19 12 50.9**	**37.22N**	**22.54E**	**28**				**¶97x2270**
ISC	**X**	**13 19 39 03**±2.5	**36.4N**±.18	**22.0E**±.19	**5**		**4**	**1-2**	
ATH	X	13 19 39 06.6	36.47N	22.18E	5	3.2D			¶97x2273
ISC		Poorly determined							
ATH	**X**	**13 21 23 00.6**	**36.62N**	**22.16E**	**5**	**3.1D**			**¶97x2288**
ATH	**X**	**13 22 38 27.9**	**36.31N**	**22.14E**	**5**	**3.0D**			**¶97x2296**
ATH	**X**	**14 01 15 45.6**	**36.32N**	**22.21E**	**8**	**3.2D**			**¶97x2316**
ISC	**X**	**14 01 41 34**±2.8	**37.5N**±.20	**22.8E**±.20	**9**		**4**	**1-2**	
ATH	X	14 01 41 36.3	37.48N	22.74E	9	3.1D			¶97x2318
ISC		Poorly determined							
ISC	**X**	**14 03 04 36.2**±.32	**36.42N**±.033	**22.22E**±.025	**13**	**4.4b,3.4s**	**194**	**1-97**	
BJI	X	14 03 04 31.5	35.61N	21.80E	33	4.8b			¶97x2327
EIDC	X	14 03 04 35.1	36.6N	22.6E	0	4.3b,4.1L			
NEIC	X	14 03 04 38.6	36.56N	22.32E	33	4.3b			
THE	X	14 03 04 38.8	36.5N	22.3E	6	4.1L			
ATH	X	14 03 04 40.1	36.56N	22.40E	13	4.2L			
PDG	X	14 03 04 41.2	36.6N	21.3E	10	4.4L			
ISC	**X**	**15 03 02 06**±4.0	**36.4N**±.28	**21.9E**±.17	**5**		**8**	**1-4**	
ATH	X	15 03 02 08.0	36.36N	22.06E	5	3.2L			¶97x2549
THE	X	15 03 02 08.8	36.5N	22.0E	5				
ATH	**X**	**15 10 07 11.8**	**36.80N**	**22.41E**	**10**				**¶97x2604**
ISC	**X**	**16 02 35 02.3**±.80	**36.32N**±.067	**21.99E**±.046	**62**±6.8	**3.8b**	**70**	**1-79**	
NEIC	X	16 02 34 59.2	36.23N	22.24E	33	3.9b			¶97x2773
EIDC	X	16 02 35 00.9	36.9N	22.8E	0	3.8b,3.9L			
ATH	X	16 02 35 01.8	36.31N	22.10E	8	3.8L			
THE	X	16 02 35 02.2	36.3N	22.1E	11	3.5L			
PDG	X	16 02 35 04.5	36.5N	19.9E	10	4.2L			
NEIC		Less reliable solution.							
ISC	**X**	**16 07 44 16**±1.5	**36.7N**±.13	**22.3E**±.14	**31**±14		**8**	**1-3**	
ATH	X	16 07 44 17.5	36.81N	22.33E	18	3.2L			¶97x2809
ISC	**X**	**16 23 22 20**±2.5	**36.2N**±.20	**21.9E**±.11	**5**		**9**	**1-7**	
ATH	X	16 23 22 23.9	36.39N	22.11E	5	3.3L			¶97x2897
ATH	**X**	**17 03 15 29.5**	**36.41N**	**22.16E**	**5**				**¶97x2925**
ISC	**X**	**17 19 47 36**±2.5	**37.2N**±.18	**21.5E**±.20	**5**		**4**	**0-2**	
ATH	X	17 19 47 36.9	37.10N	21.49E	5	2.9D			¶97x3051
ISC		Poorly determined							
ATH	**X**	**18 05 49 34.4**	**37.37N**	**21.62E**	**10**	**2.8D**			**¶97x3108**
ISC	**X**	**18 05 52 56**±1.8	**37.8N**±.13	**21.1E**±.19	**10**		**4**	**1-2**	
ATH	X	18 05 52 57.0	37.81N	21.10E	10	2.9D			¶97x3109
ISC		Poorly determined							
ATH	**X**	**18 20 03 13.1**	**37.06N**	**22.52E**	**10**	**2.8D**			**¶97x3225**
ISC	**X**	**20 17 29 30**±2.9	**37.6N**±.12	**21.1E**±.22	**0**±25		**5**	**1-2**	
ATH	X	20 17 29 31.5	37.67N	21.18E	2	2.8D			¶97x3533
ISC		Poorly determined							
ISC	**X**	**20 20 26 22**±2.0	**37.6N**±.20	**21.3E**±.27	**5**		**4**	**1-2**	
ATH	X	20 20 26 23.9	37.58N	21.26E	5	2.8D			¶97x3555
ISC		Poorly determined							
ISC	**X**	**21 03 12 26**±1.5	**37.7N**±.10	**21.5E**±.19	**5**		**4**	**0-1**	
ATH	X	21 03 12 27.2	37.69N	21.47E	5	2.9D			¶97x3591
ISC		Poorly determined							
ATH	**X**	**21 16 16 20.5**	**36.94N**	**22.45E**	**5**	**2.8D**			**¶97x3676**
ATH	**X**	**21 16 35 24.6**	**36.76N**	**22.53E**	**10**	**3.0D**			**¶97x3678**
ISC	**X**	**21 17 02 30**±6.3	**36.3N**±.39	**21.9E**±.26	**5**		**4**	**1-3**	
ATH	X	21 17 02 31.7	36.22N	21.96E	5	3.1D			¶97x3682
ISC		Poorly determined							
ISC	**X**	**21 17 34 11**±12	**36.2N**±.51	**22.0E**±.33	**6**±48		**6**	**1-3**	
ATH	X	21 17 34 11.3	36.10N	21.92E	5	3.6L			¶97x3686
ISC	**X**	**21 22 43 26**±1.2	**36.2N**±.11	**21.96E**±.065	**56**±11	**4.0b**	**25**	**1-46**	
EIDC	X	21 22 43 23.3	36.5N	22.6E	0	4.1b,3.7L			¶97x3709
ATH	X	21 22 43 27.2	36.35N	22.14E	8	3.5L			
ISC	**X**	**22 02 55 18.3**±.66	**36.77N**±.060	**21.61E**±.045	**15**	**3.9b**	**42**	**0-33**	
NEIC	X	22 02 55 17.2	36.83N	21.87E	33				¶97x3741
THE	X	22 02 55 22.5	37.0N	21.8E	15	3.3L			
ATH	X	22 02 55 23.0	36.91N	21.79E	35	3.6L			
EIDC	X	22 02 56 04.9	41.8N	21.7E	0	4.2b,4.1L			
NEIC		Less reliable solution.							
ISC	**X**	**22 11 03 49**±1.6	**37.6N**±.13	**21.3E**±.20	**28**		**5**	**1-2**	
ATH	X	22 11 03 49.4	37.46N	21.09E	28	2.8D			¶97x3795
THE	X	22 11 03 50.0	37.7N	21.4E	2				
ISC	**X**	**22 16 58 17.4**±.82	**36.26N**±.075	**23.51E**±.080	**1**		**12**	**1-3**	
THE	X	22 16 58 18.9	36.2N	23.5E	1				¶97x3852
ATH	X	22 16 58 19.1	36.14N	23.41E	5	3.4L			
ISC	**X**	**22 22 13 48.3**±.75	**36.23N**±.072	**21.98E**±.056	**60**±8.5	**3.7b**	**34**	**1-79**	
EIDC	X	22 22 13 46.3	36.8N	22.9E	0	3.8b			¶97x3889
THE	X	22 22 13 48.4	36.4N	22.0E	10				
ATH	X	22 22 13 48.8	36.35N	22.10E	11	3.6L			
ATH	**X**	**23 00 29 52.3**	**37.59N**	**21.33E**	**5**				**¶97x3903**
ISC	**X**	**24 02 18 51**±1.4	**37.63N**±.097	**21.4E**±.16	**5**		**5**	**1-2**	
ATH	X	24 02 18 52.2	37.57N	21.30E	5	2.9D			¶97x4095
THE	X	24 02 18 52.6	37.7N	21.5E	2				
ISC	**X**	**24 10 24 56**±1.3	**37.67N**±.091	**21.4E**±.16	**5**		**5**	**0-2**	
ATH	X	24 10 24 57.7	37.69N	21.47E	5	2.8D			¶97x4148
ATH	**X**	**24 21 06 28.4**	**37.59N**	**21.25E**	**11**				**¶97x4223**
ISC	**X**	**25 02 49 10**±1.5	**37.6N**±.12	**21.4E**±.18	**5**		**5**	**1-2**	
ATH	X	25 02 49 11.6	37.59N	21.30E	5				¶97x4258
ISC	**X**	**25 15 25 23.8**±.89	**37.96N**±.062	**22.1E**±.11	**1**		**6**	**1-1**	
THE	X	25 15 25 25.2	38.0N	22.1E	1				¶97x4344
ATH	X	25 15 25 25.9	37.96N	22.05E	10	3.0L			
ISC	**X**	**26 04 47 02**±1.2	**37.8N**±.13	**21.7E**±.21	**36**		**4**	**1-1**	
ATH	X	26 04 47 02.4	37.79N	21.64E	36	2.7D			¶97x4416
ISC		Poorly determined							
ATH	**X**	**26 05 33 55.3**	**37.48N**	**21.18E**	**15**				**¶97x4418**
ISC	**X**	**26 18 23 24**±2.5	**36.8N**±.22	**22.2E**±.20	**5**		**5**	**0-2**	
ATH	X	26 18 23 22.8	36.61N	22.13E	5	3.2D			¶97x4511
ATH	**X**	**27 04 12 16.5**	**36.95N**	**23.08E**	**66**	**2.8L**			**¶97x4565**
ISC	**X**	**27 10 46 05**±1.3	**37.5N**±.11	**22.1E**±.20	**27**		**4**	**0-1**	
ATH	X	27 10 46 05.1	37.56N	22.06E	27	2.8D			¶97x4600
ISC		Poorly determined							
ATH	**X**	**28 01 56 09.0**	**37.57N**	**21.48E**	**10**				**¶97x4684**
ISC	**X**	**28 02 40 24**±1.7	**37.6N**±.12	**21.3E**±.19	**10**		**5**	**1-2**	
ATH	X	28 02 40 25.4	37.54N	21.15E	10				¶97x4690
ISC	**X**	**28 07 47 46**±2.8	**36.9N**±.17	**21.6E**±.17	**2**		**5**	**0-2**	
ATH	X	28 07 47 47.5	36.85N	21.67E	2	3.1D			¶97x4728
ATH	**X**	**28 11 06 52.8**	**37.13N**	**22.52E**	**10**				**¶97x4750**
ISC	**X**	**28 14 00 24**±3.8	**37.4N**±.31	**21.1E**±.39	**10**		**4**	**1-2**	
ATH	X	28 14 00 26.3	37.50N	21.09E	10	2.9D			¶97x4768
ISC		Poorly determined							
ISC	**X**	**30 11 17 59**±4.2	**36.6N**±.29	**22.1E**±.23	**5**		**5**	**1-2**	
ATH	X	30 11 17 59.4	36.46N	22.06E	5	3.4D			¶97x5028
ISC	**X**	**30 23 01 09**±3.6	**37.0N**±.25	**21.7E**±.15	**5**		**7**	**0-4**	
ATH	X	30 23 01 08.0	36.87N	21.68E	5	3.3L			¶97x5102
ISC	**X**	**31 09 14 24**±5.8	**37.3N**±.15	**23.7E**±.52	**10**		**4**	**1-3**	
ATH	X	31 09 14 23.2	37.26N	23.84E	10	2.8D			¶97x5159
ISC		Poorly determined							
ISC	**XI**	**01 06 08 13.7**±.78	**37.62N**±.062	**21.34E**±.074	**5**	**3.8b**	**26**	**1-24**	
EIDC	XI	01 06 08 11.3	37.7N	21.9E	0	3.6b,3.5L			¶97xi0037
ATH	XI	01 06 08 15.5	37.68N	21.40E	5	3.5L			
ISC	**XI**	**01 08 33 28**±1.1	**37.66N**±.074	**21.3E**±.10	**5**		**17**	**1-4**	
ATH	XI	01 08 33 28.6	37.65N	21.36E	5	3.3L			¶97xi0047
ATH	**XI**	**01 20 27 37.5**	**37.62N**	**21.28E**	**10**	**2.7D**			**¶97xi0135**
ISC	**XI**	**01 20 31 42**±1.3	**37.7N**±.13	**21.5E**±.19	**10**		**4**	**1-1**	
ATH	XI	01 20 31 42.5	37.62N	21.48E	10	2.8D			¶97xi0137
ISC		Poorly determined							
ISC	**XI**	**01 21 00 58**±1.6	**36.8N**±.12	**22.3E**±.13	**5**		**9**	**0-3**	
ATH	XI	01 21 00 57.0	36.63N	21.98E	5	3.3L			¶97xi0140
ISC	**XI**	**02 06 27 01.1**±.72	**36.18N**±.064	**21.97E**±.050	**5**	**4.0b**	**54**	**1-121**	
ATH	XI	02 06 27 02.8	36.14N	22.00E	5	3.6L			¶97xi0207
NEIC	XI	02 06 27 04.4	36.38N	22.16E	33				
THE	XI	02 06 27 05.9	36.3N	21.9E	15	3.6L			
EIDC	XI	02 06 27 16.2	36.6N	22.1E	117	3.6b			
ISC	**XI**	**02 06 32 26.4**±.32	**36.24N**±.032	**22.04E**±.030	**5**	**4.4b,3.6s**	**170**	**1-121**	
MOS	XI	02 06 32 28.7	36.2N	22.0E	33	5.0b			¶97xi0209
ATH	XI	02 06 32 29.6	36.24N	22.06E	5	4.3L			
BJI	XI	02 06 32 29.8	36.32N	21.73E	53	4.7b			
NEIC	XI	02 06 32 30.2	36.36N	22.12E	34	3.9b			
PDG	XI	02 06 32 30.2	36.1N	21.0E	15	4.5L			
EIDC	XI	02 06 32 30.9	36.4N	22.1E	26	4.1b,3.7s			
THE	XI	02 06 32 31.0	36.3N	21.8E	15	4.3L			
ISC	**XI**	**03 00 42 16**±1.7	**37.6N**±.18	**21.4E**±.24	**5**		**4**	**1-2**	
ATH	XI	03 00 42 16.9	37.60N	21.33E	5	2.9D			¶97xi0365
ISC		Poorly determined							
ISC	**XI**	**03 08 29 33**±1.8	**37.4N**±.20	**21.5E**±.28	**31**		**4**	**0-1**	
ATH	XI	03 08 29 33.0	37.47N	21.45E	31	3.0D			¶97xi0437
ISC		Poorly determined							
ATH	**XI**	**03 17 56 43.9**	**37.50N**	**21.25E**	**27**	**2.8D**			**¶97xi0500**
ISC	**XI**	**04 08 27 21.8**±.69	**37.33N**±.059	**23.32E**±.059	**98**		**43**	**1-10**	
THE	XI	04 08 27 22.5	37.2N	23.5E	99	2.9L			¶97xi0599
ATH	XI	04 08 27 22.7	37.26N	23.44E	98	3.0L			
PDG	XI	04 08 27 25.1	37.4N	22.2E	11	4.1L			
ISC	**XI**	**04 17 10 13**±1.8	**37.6N**±.14	**21.3E**±.20	**10**		**4**	**1-2**	
ATH	XI	04 17 10 13.5	37.58N	21.32E	10	2.9D			¶97xi0666
ISC		Poorly determined							
ATH	**XI**	**04 19 56 59.7**	**37.62N**	**21.55E**	**10**	**2.6D**			**¶97xi0684**
ISC	**XI**	**04 21 24 43**±1.5	**37.6N**±.10	**21.3E**±.12	**5**		**7**	**1-4**	
ATH	XI	04 21 24 44.2	37.54N	21.26E	5	3.3L			¶97xi0690
ISC	**XI**	**05 03 31 03**±1.0	**37.18N**±.086	**22.0E**±.10	**10**		**7**	**0-4**	
NEIC	XI	05 03 31 03.7	37.26N	22.02E	10				¶97xi0724
ATH	XI	05 03 31 04.3	37.21N	22.04E	5	3.3L			
NEIC		Single network solution.							
ATH	**XI**	**05 21 16 28.0**	**37.87N**	**22.13E**	**35**				**¶97xi0865**
ATH	**XI**	**05 21 36 59.5**	**37.94N**	**22.19E**	**29**	**3.2D**			**¶97xi0869**
NEIC	XI	05 21 36 58.2	37.98N	22.20E	10				
NEIC		Single network solution.							
ISC	**XI**	**06 04 40 29**±2.0	**36.6N**±.19	**22.4E**±.17	**69**±9.1	**3.7b**	**19**	**0-33**	
ATH	XI	06 04 40 28.0	36.53N	22.02E	5	3.3L			¶97xi0924
EIDC	XI	06 04 40 28.3	37.3N	22.4E	0	3.9b			
THE	XI	06 04 40 28.6	36.6N	21.9E	10				
NEIC	XI	06 04 40 30.9	37.20N	22.98E	33				
NEIC		Poor solution.							
ISC	**XI**	**06 05 34 47.4**±.76	**37.38N**±.055	**22.16E**±.082	**5**		**15**	**0-4**	
ATH	XI	06 05 34 48.3	37.39N	22.17E	5	3.4D			¶97xi0928
ATH	**XI**	**06 12 43 19.3**	**37.55N**	**21.36E**	**10**				**¶97xi0979**
ISC	**XI**	**06 19 38 07**±1.6	**37.7N**±.11	**21.4E**±.19	**5**		**4**	**0-1**	
ATH	XI	06 19 38 07.8	37.66N	21.36E	5	3.0D			¶97xi1017
ISC		Poorly determined							
ISC	**XI**	**07 19 47 37**±3.1	**36.5N**±.17	**22.2E**±.17	**33**±28		**7**	**1-3**	
ATH	XI	07 19 47 36.0	36.45N	22.15E	26	3.5L			¶97xi1164
NEIC	XI	07 19 47 36.4	36.53N	22.18E	33				
NEIC		Single network solution.							
ATH	**XI**	**07 21 25 56.1**	**37.05N**	**21.94E**	**10**	**2.8D**			**¶97xi1171**
ISC	**XI**	**08 04 31 29**±1.0	**37.68N**±.085	**21.6E**±.15	**5**		**6**	**1-2**	
NEIC	XI	08 04 31 29.7	37.70N	21.52E	5				¶97xi1212
ATH	XI	08 04 31 30.4	37.68N	21.51E	5	3.2D			
NEIC		Poor solution.							
ATH	**XI**	**09 07 02 34.7**	**37.65N**	**22.99E**	**9**	**3.0D**			**¶97xi1415**
ISC	**XI**	**10 14 33 34**±1.6	**36.4N**±.12	**22.2E**±.14	**51**±12	**3.7b**	**19**	**1-33**	
ATH	XI	10 14 33 31.8	36.33N	22.07E	17	3.4L			¶97xi1621
NEIC	XI	10 14 33 32.6	36.37N	22.09E	33				
EIDC	XI	10 14 33 52.1	39.0N	23.5E	0	3.6b			
NEIC		Less reliable solution.							
ISC	**XI**	**12 00 16 28**±2.6	**37.0N**±.17	**21.6E**±.18	**5**		**4**	**0-2**	
ATH	XI	12 00 16 28.6	36.90N	21.65E	5	2.8D			¶97xi1904
ISC		Poorly determined							
ATH	**XI**	**12 04 37 12.4**	**37.78N**	**21.12E**	**10**	**3.0D**			**¶97xi1936**
ISC	**XI**	**13 01 35 54**±1.3	**37.7N**±.11	**21.4E**±.17	**5**		**5**	**1-2**	
ATH	XI	13 01 35 55.8	37.68N	21.35E	5	2.8D			¶97xi2062
ATH	**XI**	**13 03 31 17.8**	**36.60N**	**22.10E**	**10**				**¶97xi2075**
ISC	**XI**	**13 10 30 15.1**±.56	**36.98N**±.049	**21.44E**±.049	**5**	**4.0b**	**42**	**0-79**	
ATH	XI	13 10 30 17.2	36.99N	21.50E	5	3.9L			¶97xi2121
NEIC	XI	13 10 30 20.3	37.10N	21.48E	51	4.2b			
EIDC	XI	13 10 30 23.9	37.1N	21.5E	70	3.8b,4.1L			
ISC	**XI**	**14 15 12 45.4**±.31	**36.36N**±.032	**24.46E**±.028	**104**±3.8	**4.3b**	**185**	**1-129**	
BJI	XI	14 15 12 44.3	36.72N	24.60E	82	4.7b			¶97xi2306
NEIC	XI	14 15 12 44.6	36.38N	24.52E	95	4.1b			
EIDC	XI	14 15 12 45.6	36.6N	24.5E	81	4.1b			
ATH	XI	14 15 12 48.5	36.47N	24.47E	102	4.4L			
THE	XI	14 15 12 48.7	36.5N	24.4E	115	4.0L			
PDG	XI	14 15 12 50.5	36.8N	23.7E	13	4.6L			

Agency	mo	Origin Time d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °	
ATH	**XI**	**16 16 15 34.7**	**36.40N**	**24.89E**	**32**	**3.5D**			**¶97xi2666**
ATH	**XI**	**16 16 33 11.7**	**36.58N**	**23.90E**	**7**	**3.3D**			**¶97xi2669**
ISC	**XI**	**17 22 51 26±1.6**	**37.6N±.15**	**21.3E±.22**	**5**		**4**	**1-2**	
ATH	XI	17 22 51 26.8	37.61N	21.34E	5	3.0D			**¶97xi2871**
ISC	Poorly determined								
ATH	**XI**	**18 04 00 30.9**	**36.99N**	**22.20E**	**23**	**3.1D**			**¶97xi2909**
ISC	**XI**	**18 13 27 22±1.2**	**37.4N±.14**	**21.1E±.20**	**33**	**4.1b**	**13**	**13-59**	
EIDC	XI	18 13 27 18.9	37.4N	20.9E	0	4.2b			**¶97xi2968**
NEIC	XI	18 13 27 21.6	37.61N	20.76E	33				
NEIC	Poor solution.								
ISC	**XI**	**18 13 28 18.2±.63**	**37.46N±.076**	**21.1E±.13**	**33**	**4.1b**	**19**	**13-89**	
EIDC	XI	18 13 28 15.5	37.5N	21.1E	0	4.2b,4.3L			**¶97xi2969**
NEIC	XI	18 13 28 18.2	37.45N	21.08E	33	4.6b			
NEIC	Less reliable solution.								
ISC	**XI**	**18 13 28 55.7±.79**	**37.45N±.091**	**21.1E±.16**	**33**	**4.2b**	**12**	**13-70**	
EIDC	XI	18 13 28 52.5	37.5N	21.2E	0	4.3b,4.4L			**¶97xi2970**
NEIC	XI	18 13 28 55.5	37.46N	21.11E	33	4.5b			
NEIC	Less reliable solution.								
ISC	**XI**	**18 13 31 11±2.0**	**37.3N±.10**	**21.1E±.10**	**18±14**	**4.0b**	**29**	**2-122**	
NEIC	XI	18 13 31 14.1	37.53N	21.19E	33	4.6b			**¶97xi2971**
EIDC	XI	18 13 31 14.8	37.6N	21.3E	23	4.0b,4.2L			
ATH	XI	18 13 31 18.2	37.19N	21.40E	38	4.2L			
NEIC	Less reliable solution.								
ISC	**XI**	**18 13 51 42±1.7**	**37.5N±.12**	**21.2E±.15**	**61±15**	**3.7b**	**19**	**2-74**	
EIDC	XI	18 13 51 35.5	37.5N	21.6E	0	3.8b			**¶97xi2978**
NEIC	XI	18 13 51 38.6	37.47N	21.44E	33				
THE	XI	18 13 51 39.6	37.4N	21.0E	10				
NEIC	Less reliable solution.								
ISC	**XI**	**18 13 53 33±1.3**	**37.3N±.13**	**21.4E±.52**	**33**	**3.5b**	**9**	**21-121**	
EIDC	XI	18 13 53 29.9	37.3N	21.3E	0	3.7b			**¶97xi2979**
NEIC	XI	18 13 53 33.0	37.30N	21.31E	33				
NEIC	Poor solution.								
ISC	**XI**	**18 13 56 19.8±.87**	**37.24N±.031**	**21.05E±.024**	**18±7.0**	**4.4b**	**214**	**2-147**	
EIDC	XI	18 13 56 19.3	37.4N	21.2E	0	4.4b,4.6L			**¶97xi2980**
PDG	XI	18 13 56 19.4	37.0N	19.7E	16	4.7L,4.6D			
BJI	XI	18 13 56 20.7	36.98N	21.22E	33	4.8b			
NEIC	XI	18 13 56 21.2	37.35N	21.18E	33	4.4b			
THE	XI	18 13 56 21.4	37.3N	21.0E	0	4.7L			
ATH	XI	18 13 56 24.1	37.41N	21.25E	10	4.8L			
ISC	**XI**	**18 13 59 56±1.4**	**37.4N±.14**	**21.4E±.31**	**33**	**4.0b**	**6**	**15-32**	
EIDC	XI	18 13 59 52.5	37.5N	21.6E	0	3.9b			**¶97xi2981**
NEIC	XI	18 13 59 55.6	37.44N	21.34E	33				
NEIC	Poor solution.								
ISC	**XI**	**18 14 03 34±1.2**	**37.28N±.076**	**21.14E±.095**	**55±9.8**	**4.1b**	**54**	**2-70**	
EIDC	XI	18 14 03 29.9	37.3N	21.5E	0	4.1b,4.7L			**¶97xi2982**
NEIC	XI	18 14 03 32.5	37.25N	20.93E	33	4.4b			
BJI	XI	18 14 03 33.3	37.62N	21.14E	18				
THE	XI	18 14 03 34.6	37.4N	21.3E	0				
ATH	XI	18 14 03 36.4	37.23N	21.27E	35	4.0L			
NEIC	Less reliable solution.								
ISC	**XI**	**18 14 28 31±1.2**	**37.30N±.078**	**21.4E±.13**	**72±9.1**	**3.9b**	**36**	**1-121**	
EIDC	XI	18 14 28 23.4	37.3N	21.4E	0	4.1b			**¶97xi2988**
NEIC	XI	18 14 28 26.4	37.27N	21.45E	33	4.2b			
ATH	XI	18 14 28 37.3	37.19N	21.93E	37	3.9D			
NEIC	Less reliable solution.								
ISC	**XI**	**18 14 53 45±12**	**37.1N±.87**	**21.1E±.40**	**100**		**11**	**2-4**	
									¶97xi2991
ISC	**XI**	**18 15 23 31.2±.64**	**37.31N±.024**	**21.17E±.017**	**27±4.7**	**5.1b,5.0s**	**475**	**1-159**	
EIDC	XI	18 15 23 28.5	37.3N	21.3E	0	5.0b,5.0L			**¶97xi2996**
PDG	XI	18 15 23 29.5	37.1N	20.3E	14	5.1D			
RYD	XI	18 15 23 30.6	37.41N	21.03E	10	5.0b			
BJI	XI	18 15 23 30.8	37.29N	21.14E	39	5.0b,5.2s			
NEIC	XI	18 15 23 31.8	37.35N	21.17E	33	5.1b			
ATH	XI	18 15 23 32.4	37.25N	21.16E	16	5.0L			
MOS	XI	18 15 23 32.8	37.4N	21.1E	33	5.6b,5.0s			
THE	XI	18 15 23 34.8	37.3N	21.2E	20	4.6L			
ISC	**XI**	**18 16 02 47.9±.77**	**37.71N±.065**	**21.07E±.058**	**15**	**4.1b**	**58**	**1-73**	
ATH	XI	18 16 02 38.6	37.28N	20.06E	15	4.4L			**¶97xi3003**
EIDC	XI	18 16 02 40.5	36.7N	21.3E	0	4.1b,4.0L			
NEIC	XI	18 16 02 43.6	36.72N	21.32E	33	4.4b			
ROM	XI	18 16 03 43.1	40.6N	16.8E	10	3.4D			
NEIC	Less reliable solution.								
ISC	**XI**	**18 16 07 04±1.6**	**37.6N±.11**	**21.3E±.13**	**5**		**17**	**1-4**	
ATH	XI	18 16 06 58.8	37.10N	20.61E	5	3.8L			**¶97xi3004**
ISC	**XI**	**18 16 08 55±1.1**	**37.5N±.13**	**21.0E±.11**	**5**	**3.8b**	**15**	**1-70**	
ATH	XI	18 16 08 50.5	37.41N	20.50E	5	3.9L			**¶97xi3005**
EIDC	XI	18 16 08 51.8	37.2N	21.4E	0	3.9b,4.3L			
NEIC	XI	18 16 08 54.8	37.11N	21.26E	33	4.1b			
NEIC	Less reliable solution.								
ISC	**XI**	**18 16 27 24±1.3**	**37.62N±.095**	**21.2E±.12**	**75±11**	**3.7b**	**36**	**1-32**	
EIDC	XI	18 16 27 13.8	37.2N	20.7E	0	3.9b,3.7L			**¶97xi3007**
NEIC	XI	18 16 27 15.8	37.27N	20.52E	33	4.3b			
ATH	XI	18 16 27 24.4	37.49N	21.11E	36	3.8L			
NEIC	Poor solution.								
ISC	**XI**	**18 16 47 06±1.0**	**37.86N±.094**	**22.7E±.19**	**100**	**3.3b**	**12**	**1-25**	
ATH	XI	18 16 47 05.6	37.49N	21.66E	5	3.3L			**¶97xi3010**
NEIC	XI	18 16 47 37.3	41.83N	21.19E	10				
EIDC	XI	18 16 47 42.4	42.1N	20.5E	0	3.6L,3.9b			
NEIC	Less reliable solution.								
ISC	**XI**	**18 16 56 16±6.2**	**37.7N±.44**	**21.5E±.20**	**20**		**11**	**1-4**	
THE	XI	18 16 56 12.2	37.4N	21.4E	20				**¶97xi3012**
ISC	**XI**	**18 17 13 53±9.5**	**37.6N±.73**	**21.2E±.32**	**100**		**8**	**2-4**	
									¶97xi3016
ISC	**XI**	**18 17 38 07±1.8**	**37.6N±.12**	**21.5E±.17**	**35**		**12**	**1-4**	
THE	XI	18 17 38 00.6	37.4N	21.3E	0				**¶97xi3026**
ATH	XI	18 17 38 05.6	37.38N	21.14E	35	3.5L			
ISC	**XI**	**18 17 51 52±7.1**	**37.9N±.54**	**21.6E±.21**	**33**		**7**	**1-3**	
									¶97xi3031
ISC	**XI**	**18 18 13 45±3.0**	**37.4N±.13**	**21.2E±.15**	**4±17**		**13**	**1-4**	
ATH	XI	18 18 13 45.7	37.31N	20.99E	13	3.6L			**¶97xi3034**
ISC	**XI**	**18 18 51 15±5.5**	**37.9N±.48**	**21.1E±.27**	**150**		**7**	**1-4**	
									¶97xi3042
ISC	**XI**	**18 20 06 19.6±.53**	**37.29N±.044**	**21.07E±.035**	**53±5.3**	**4.3b**	**97**	**2-122**	
EIDC	XI	18 20 06 15.2	37.4N	21.3E	0	4.3b,4.2L			**¶97xi3052**
NEIC	XI	18 20 06 17.6	37.30N	21.21E	33	4.2b			
BJI	XI	18 20 06 18.8	37.07N	20.88E	56	5.0b			
ATH	XI	18 20 06 27.6	37.51N	21.76E	37	3.7L			
ISC	**XI**	**18 21 10 56±9.5**	**37.6N±.86**	**21.6E±.26**	**150**		**6**	**2-3**	
ISC	**XI**	**18 21 53 52±8.1**	**37.5N±.66**	**21.2E±.31**	**150**		**8**	**2-4**	
									¶97xi3071
ISC	**XI**	**18 22 02 40±8.6**	**37.5N±.71**	**21.2E±.32**	**150**		**7**	**2-4**	
									¶97xi3073
ISC	**XI**	**18 22 41 01±7.1**	**37.9N±.56**	**21.1E±.24**	**20**		**6**	**1-3**	
THE	XI	18 22 40 57.0	37.5N	20.9E	20				**¶97xi3076**
ISC	**XI**	**18 22 46 18±5.0**	**37.8N±.34**	**21.1E±.21**	**10**		**10**	**2-4**	
THE	XI	18 22 46 25.9	38.3N	21.4E	10				**¶97xi3077**
ISC	**XI**	**18 22 59 42.5±.41**	**37.36N±.033**	**21.08E±.024**	**44±4.6**	**4.3b**	**199**	**1-122**	
EIDC	XI	18 22 59 38.1	37.4N	21.2E	0	4.3b,4.6L			**¶97xi3079**
NEIC	XI	18 22 59 39.8	37.29N	21.32E	33	4.5b			
PDG	XI	18 22 59 40.0	37.2N	20.2E	13	4.4L			
ATH	XI	18 22 59 41.0	37.26N	21.04E	7	4.6L			
THE	XI	18 22 59 43.1	37.4N	21.1E	10	4.4L			
BJI	XI	18 22 59 43.8	37.13N	21.74E	20	4.8b			
ISC	**XI**	**18 23 09 59±1.3**	**37.52N±.089**	**21.4E±.14**	**11**		**18**	**1-4**	
ATH	XI	18 23 10 00.0	37.50N	21.45E	11	3.3L			**¶97xi3084**
ISC	**XI**	**18 23 17 12±1.5**	**37.61N±.085**	**21.4E±.17**	**5**		**19**	**1-4**	
ATH	XI	18 23 17 06.6	37.18N	20.66E	5	3.7L			**¶97xi3086**
ISC	**XI**	**18 23 51 19±2.7**	**37.4N±.13**	**21.4E±.26**	**5**		**11**	**0-4**	
ATH	XI	18 23 51 19.7	37.40N	21.44E	5	3.3L			**¶97xi3089**
ISC	**XI**	**19 00 22 28.3±.94**	**37.15N±.073**	**21.06E±.084**	**32**	**3.6b**	**27**	**1-33**	
EIDC	XI	19 00 22 21.3	37.4N	21.8E	0	3.7b,3.8L			**¶97xi3091**
NEIC	XI	19 00 22 26.4	37.18N	20.23E	33				
ATH	XI	19 00 22 26.9	37.04N	20.76E	32	3.8L			
NEIC	Poor solution.								
ISC	**XI**	**19 01 46 35±1.5**	**37.63N±.087**	**21.1E±.15**	**10**	**3.2b**	**25**	**1-32**	
THE	XI	19 01 46 32.8	37.4N	21.0E	10				**¶97xi3104**
ATH	XI	19 01 46 36.1	37.55N	21.19E	5	3.6L			
EIDC	XI	19 01 47 24.1	42.8N	19.7E	0	3.1L,3.9b			
ISC	**XI**	**19 02 05 43.1±.70**	**37.61N±.051**	**21.03E±.082**	**5**	**3.9b,3.3s**	**31**	**1-39**	
EIDC	XI	19 02 05 44.7	37.7N	20.5E	0	4.0b,3.4s			**¶97xi3109**
ATH	XI	19 02 05 46.7	37.57N	21.20E	5	3.4L			
NEIC	XI	19 02 05 47.8	37.70N	20.55E	33				
NEIC	Poor solution.								
ISC	**XI**	**19 04 52 50±1.6**	**37.61N±.085**	**21.4E±.17**	**5**		**15**	**1-4**	
THE	XI	19 04 52 48.9	37.4N	21.3E	10				**¶97xi3138**
ATH	XI	19 04 52 51.9	37.56N	21.27E	5	3.3D			
ISC	**XI**	**19 05 18 36±4.4**	**37.2N±.23**	**21.4E±.39**	**5**		**6**	**0-4**	
ATH	XI	19 05 18 40.7	37.35N	21.59E	5	3.0D			**¶97xi3140**
ISC	**XI**	**19 05 55 52±2.1**	**37.5N±.11**	**21.1E±.16**	**1±12**	**4.0b**	**20**	**1-24**	
ATH	XI	19 05 55 55.9	37.55N	21.26E	5	3.7D			**¶97xi3142**
ISC	**XI**	**19 06 00 03±1.6**	**37.36N±.074**	**21.0E±.14**	**25±14**	**3.8b**	**19**	**1-32**	
EIDC	XI	19 06 00 00.7	37.5N	21.3E	0	4.0b,3.9L			**¶97xi3143**
ATH	XI	19 06 00 03.3	37.29N	21.01E	5	3.5L			
NEIC	XI	19 06 00 03.8	37.41N	21.03E	33	4.0b			
NEIC	Less reliable solution.								
ISC	**XI**	**19 06 10 30.5±.90**	**37.16N±.050**	**21.08E±.037**	**26±7.2**	**4.0b**	**89**	**1-96**	
EIDC	XI	19 06 10 28.1	37.3N	21.3E	0	4.1b,4.4L			**¶97xi3146**
THE	XI	19 06 10 28.2	37.0N	21.0E	10	4.1L			
PDG	XI	19 06 10 29.1	37.0N	20.2E	13	4.4L			
NEIC	XI	19 06 10 30.2	37.11N	21.19E	33	4.2b			
ATH	XI	19 06 10 31.1	37.16N	21.08E	5	4.1L			
ISC	**XI**	**19 07 20 05±2.7**	**37.57N±.096**	**21.1E±.14**	**8±17**		**20**	**1-4**	
THE	XI	19 07 20 02.9	37.5N	20.9E	0	3.5L			**¶97xi3159**
ATH	XI	19 07 20 05.3	37.42N	20.96E	5	3.6L			
ATH	**XI**	**19 08 02 57.4**	**37.30N**	**21.67E**	**10**				**¶97xi3165**
ISC	**XI**	**19 08 12 32±6.8**	**37.4N±.31**	**21.5E±.78**	**5**		**4**	**0-1**	
ATH	XI	19 08 12 34.8	37.46N	21.53E	5	2.7D			**¶97xi3169**
ISC	Poorly determined								
ISC	**XI**	**19 09 02 24±3.8**	**37.2N±.22**	**21.1E±.31**	**2±26**		**5**	**1-2**	
ATH	XI	19 09 02 25.0	37.17N	21.07E	5	2.8D			**¶97xi3178**
ISC	Poorly determined								
ISC	**XI**	**19 09 07 56±1.1**	**37.2N±.10**	**21.09E±.065**	**5**	**3.8b**	**25**	**1-33**	
EIDC	XI	19 09 07 51.8	36.8N	21.1E	0	3.9b,3.9L			**¶97xi3181**
NEIC	XI	19 09 07 56.5	36.98N	20.85E	33	4.1b			
ATH	XI	19 09 08 04.8	37.43N	21.42E	5	3.4L			
NEIC	Poor solution.								
ATH	**XI**	**19 09 31 37.3**	**37.56N**	**21.32E**	**10**				**¶97xi3183**
ATH	**XI**	**19 09 40 19.8**	**37.49N**	**21.32E**	**5**				**¶97xi3186**
ATH	**XI**	**19 09 41 42.5**	**37.50N**	**21.89E**	**5**	**3.1D**			**¶97xi3187**
ISC	**XI**	**19 10 14 28±1.2**	**37.60N±.077**	**21.7E±.16**	**5**		**9**	**0-4**	
ATH	XI	19 10 14 29.4	37.60N	21.71E	5	3.1L			**¶97xi3191**
ISC	**XI**	**19 11 15 58±3.4**	**37.5N±.25**	**21.6E±.56**	**16**		**7**	**0-4**	
ATH	XI	19 11 15 58.5	37.45N	21.51E	16	3.2D			**¶97xi3201**
ATH	**XI**	**19 11 29 39.3**	**37.51N**	**21.44E**	**10**	**3.0D**			**¶97xi3205**
ISC	**XI**	**19 12 05 03±1.7**	**37.3N±.12**	**21.7E±.16**	**5**		**8**	**0-5**	
ATH	XI	19 12 05 04.5	37.22N	21.62E	5	3.4L			**¶97xi3211**
ISC	**XI**	**19 12 23 57±1.8**	**37.5N±.11**	**21.2E±.17**	**5**		**9**	**1-4**	
ATH	XI	19 12 23 58.4	37.49N	21.14E	5	3.4L			**¶97xi3217**
ISC	**XI**	**19 12 48 58±1.2**	**37.53N±.068**	**21.8E±.14**	**11**		**7**	**0-4**	
ATH	XI	19 12 48 58.3	37.49N	21.59E	11	3.2L			**¶97xi3221**
ATH	**XI**	**19 12 57 09.5**	**37.55N**	**21.37E**	**5**				**¶97xi3223**
ATH	**XI**	**19 13 15 33.0**	**37.40N**	**21.63E**	**5**				**¶97xi3226**
ATH	**XI**	**19 13 32 31.0**	**37.56N**	**21.38E**	**5**	**2.8D**			**¶97xi3230**
ATH	**XI**	**19 13 38 11.1**	**37.45N**	**21.52E**	**5**	**2.9D**			**¶97xi3232**
ATH	**XI**	**19 14 08 49.6**	**37.64N**	**21.81E**	**5**	**2.8D**			**¶97xi3234**
ISC	**XI**	**19 14 39 18±1.5**	**37.61N±.085**	**21.2E±.16**	**5**		**21**	**0-4**	
ATH	XI	19 14 39 20.3	37.60N	21.26E	5	3.5D			**¶97xi3240**
ISC	**XI**	**19 14 52 16±2.6**	**37.6N±.12**	**22.3E±.40**	**10**		**5**	**1-4**	
ATH	XI	19 14 52 18.6	37.59N	21.94E	10	3.2D			**¶97xi3243**
ATH	**XI**	**19 14 54 43.2**	**37.51N**	**21.31E**	**5**				**¶97xi3244**
ATH	**XI**	**19 15 49 25.8**	**37.63N**	**21.40E**	**10**				**¶97xi3250**
ATH	**XI**	**19 16 32 35.6**	**37.35N**	**21.91E**	**19**				**¶97xi3257**
ISC	**XI**	**19 16 57 30±2.2**	**37.5N±.12**	**21.5E±.24**	**21±18**		**8**	**0-4**	
ATH	XI	19 16 57 31.9	37.44N	21.56E	10				**¶97xi3262**
ATH	**XI**	**19 17 06 03.3**	**37.67N**	**21.25E**	**10**	**3.1D**			**¶97xi3266**
ISC	**XI**	**19 17 12 55±2.3**	**37.5N±.12**	**21.1E±.23**	**5**		**12**	**1-4**	
ATH	XI	19 17 12 59.4	37.58N	21.52E	5	3.1D			**¶97xi3268**
ISC	**XI**	**19 17 36 59±3.1**	**37.5N±.12**	**21.3E±.22**	**14±24**		**12**	**1-4**	
THE	XI	19 17 36 55.5	37.4N	21.1E	0				**¶97xi3272**
ATH	XI	19 17 36 57.8	37.44N	21.00E	5	2.9D			
ATH	**XI**	**19 17 41 05.1**	**37.50N**	**21.45E**	**5**	**2.7D**			**¶97xi3274**
ISC	**XI**	**19 17 44 26.1±.90**	**37.55N±.061**	**21.8E±.14**	**5**		**21**	**0-4**	
ATH	XI	19 17 44 26.6	37.53N	21.68E	5	3.2D			**¶97xi3276**
ISC	**XI**	**19 17 52 09±2.9**	**37.6N±.17**	**21.4E±.42**	**5**		**5**	**0-2**	
ATH	XI	19 17 52 09.1	37.54N	21.21E	5				**¶97xi3279**
ISC	**XI**	**19 18 05 41±1.2**	**37.65N±.072**	**21.4E±.14**	**5**		**17**	**0-4**	
ATH	XI	19 18 05 43.2	37.64N	21.66E	5	3.2D			**¶97xi3281**

ISC	**XI**	**19 18 15 21**±2.2	**37.5N**±.10	**21.2E**±.18	**24**±19		**23**	**1-4**	
ATH	XI	19 18 15 20.8	37.41N	21.12E	5	3.5L			¶97xi3284
ISC	**XI**	**19 18 18 12**±3.3	**37.6N**±.10	**21.1E**±.21	**4**±17		**16**	**1-4**	
ATH	XI	19 18 18 17.6	37.64N	21.55E	5	3.1D			¶97xi3285
ISC	**XI**	**19 18 27 07**±2.4	**37.5N**±.14	**21.2E**±.15	**5**±23		**25**	**1-5**	
THE	XI	19 18 27 03.9	37.3N	21.0E	0	3.6L			¶97xi3286
ATH	XI	19 18 27 09.2	37.46N	21.24E	5	3.5L			
ISC	**XI**	**19 18 30 31**±1.6	**37.2N**±.10	**21.2E**±.14	**53**±10	**3.8b**	**36**	**1-70**	
NEIC	XI	19 18 30 28.7	37.12N	21.01E	33	4.0b			¶97xi3288
THE	XI	19 18 30 31.3	37.4N	21.2E	0				
ATH	XI	19 18 30 32.8	37.23N	21.31E	5	3.5L			
EIDC	XI	19 18 30 40.1	37.7N	21.2E	89	3.5b,3.7L			
NEIC	Poor solution.								
THE	**XI**	**19 18 50 08.4**	**37.4N**	**21.2E**	**0**				¶97xi3292
ATH	**XI**	**19 18 59 28.8**	**37.36N**	**21.64E**	**10**				¶97xi3293
ATH	**XI**	**19 20 07 48.1**	**37.54N**	**21.32E**	**5**	**3.1D**			¶97xi3304
ISC	**XI**	**19 20 22 04**±1.4	**37.46N**±.084	**21.6E**±.15	**5**		**19**	**0-5**	
ATH	XI	19 20 22 04.4	37.42N	21.48E	5	3.3L			¶97xi3307
ISC	**XI**	**19 20 40 37**±1.4	**37.58N**±.080	**21.4E**±.16	**5**		**17**	**0-4**	
THE	XI	19 20 40 36.9	37.5N	21.3E	0				¶97xi3308
ATH	XI	19 20 40 39.2	37.61N	21.39E	5	3.2D			
ISC	**XI**	**19 20 47 07**±1.2	**37.40N**±.087	**22.0E**±.21	**5**		**4**	**0-2**	
ATH	XI	19 20 47 08.6	37.37N	21.95E	5	3.1D			¶97xi3310
ISC	Poorly determined								
ISC	**XI**	**19 21 05 51**±2.1	**37.6N**±.10	**21.1E**±.21	**10**		**12**	**1-4**	
THE	XI	19 21 05 48.8	37.4N	21.1E	10				¶97xi3313
ATH	XI	19 21 05 54.0	37.60N	21.13E	10	2.9D			
ISC	**XI**	**19 21 36 36**±4.1	**37.5N**±.19	**21.0E**±.39	**5**		**4**	**1-2**	
ATH	XI	19 21 36 36.5	37.40N	20.85E	5	3.1D			¶97xi3320
ISC	Poorly determined								
ISC	**XI**	**19 21 46 55**±3.9	**37.4N**±.22	**21.4E**±.43	**5**		**4**	**0-2**	
ATH	XI	19 21 46 55.2	37.31N	21.21E	5	3.0D			¶97xi3321
ISC	Poorly determined								
ISC	**XI**	**19 22 37 20**±1.1	**37.70N**±.066	**21.7E**±.16	**29**		**21**	**1-4**	
ATH	XI	19 22 37 21.1	37.71N	21.83E	29	3.1D			¶97xi3324
ISC	**XI**	**19 22 43 13**±1.7	**37.76N**±.088	**21.0E**±.17	**5**		**21**	**1-4**	
ATH	XI	19 22 43 19.0	37.76N	21.42E	5	3.2L			¶97xi3326
ISC	**XI**	**19 22 45 51**±2.7	**37.5N**±.16	**21.3E**±.33	**5**		**6**	**1-4**	
ATH	XI	19 22 45 52.8	37.49N	21.29E	5	3.1D			¶97xi3327
ISC	**XI**	**19 22 54 30**±1.8	**37.5N**±.14	**21.8E**±.39	**10**		**4**	**0-2**	
ATH	XI	19 22 54 31.0	37.48N	21.73E	10				¶97xi3328
ISC	Poorly determined								
ISC	**XI**	**19 23 36 42**±3.5	**37.5N**±.23	**21.5E**±.49	**5**		**4**	**0-2**	
ATH	XI	19 23 36 43.3	37.51N	21.47E	5	2.9D			¶97xi3338
ISC	Poorly determined								
ISC	**XI**	**19 23 41 25**±5.2	**37.3N**±.34	**21.5E**±.55	**5**		**4**	**0-2**	
ATH	XI	19 23 41 26.1	37.34N	21.43E	5	3.0D			¶97xi3339
ISC	Poorly determined								
ATH	**XI**	**19 23 44 14.6**	**37.46N**	**21.36E**	**5**	**3.1D**			¶97xi3340
ISC	**XI**	**20 00 19 54**±2.8	**37.45N**±.097	**21.3E**±.14	**5**±18		**20**	**1-5**	
THE	XI	20 00 19 53.8	37.5N	21.0E	10				¶97xi3346
ATH	XI	20 00 19 55.0	37.38N	21.21E	5	3.3L			
ISC	**XI**	**20 00 23 06**±2.3	**37.5N**±.12	**21.2E**±.23	**18**±16		**12**	**1-4**	
ATH	XI	20 00 23 07.1	37.48N	21.29E	5	3.1D			¶97xi3347
ISC	**XI**	**20 00 28 37.1**±.68	**37.66N**±.080	**21.43E**±.087	**5**	**3.9b**	**18**	**1-39**	
EIDC	XI	20 00 28 39.7	37.9N	21.3E	0	3.9b,3.9L			¶97xi3350
NEIC	XI	20 00 28 42.1	37.84N	21.31E	33				
ATH	XI	20 00 28 45.0	37.39N	21.86E	5	3.2L			
NEIC	Less reliable solution.								
ISC	**XI**	**20 00 55 23**±7.5	**37.4N**±.54	**21.0E**±.27	**20**		**8**	**2-4**	
THE	XI	20 00 55 25.8	37.3N	21.2E	20				¶97xi3353
ISC	**XI**	**20 01 01 07**±2.4	**37.3N**±.12	**21.1E**±.19	**31**±13		**21**	**1-5**	
THE	XI	20 01 01 06.8	37.5N	21.1E	0				¶97xi3355
ATH	XI	20 01 01 10.8	37.45N	21.40E	21	3.3L			
ISC	**XI**	**20 01 09 57**±1.7	**37.6N**±.13	**21.3E**±.21	**5**		**7**	**1-3**	
ATH	XI	20 01 09 58.8	37.61N	21.46E	5	3.2L			¶97xi3356
ISC	**XI**	**20 01 10 17**±1.1	**37.64N**±.091	**21.3E**±.11	**72**±8.0	**3.8b**	**41**	**1-69**	
NEIC	XI	20 01 10 09.9	37.36N	20.80E	33	4.0b			¶97xi3357
ATH	XI	20 01 10 13.5	37.43N	20.91E	5	3.8L			
EIDC	XI	20 01 10 13.5	37.4N	20.9E	38	3.8b,3.5L			
NEIC	Less reliable solution.								
ISC	**XI**	**20 01 49 55**±5.4	**37.4N**±.12	**21.3E**±.19	**11**±48		**17**	**1-4**	
ATH	XI	20 01 49 54.4	37.44N	21.23E	5	3.3L			¶97xi3364
ISC	**XI**	**20 01 51 19.4**±.56	**37.36N**±.044	**21.05E**±.040	**44**±6.1	**4.1b**	**76**	**1-122**	
NEIC	XI	20 01 51 18.1	37.30N	21.14E	33	4.4b			¶97xi3365
PDG	XI	20 01 51 19.4	37.3N	19.7E	12	4.1L			
EIDC	XI	20 01 51 21.4	37.4N	21.2E	42	3.9b,4.0L			
ATH	XI	20 01 51 22.7	37.42N	21.50E	5	3.7L			
ISC	**XI**	**20 01 57 19**±1.8	**37.62N**±.099	**21.0E**±.20	**20**		**16**	**1-4**	
ATH	XI	20 01 57 23.4	37.67N	21.37E	20	3.2D			¶97xi3368
ISC	**XI**	**20 02 44 59**±6.9	**37.5N**±.49	**21.2E**±.24	**0**		**10**	**2-4**	
THE	XI	20 02 45 02.0	37.6N	21.2E	0				¶97xi3375
ISC	**XI**	**20 02 49 14**±1.1	**37.55N**±.082	**21.8E**±.15	**24**		**9**	**0-5**	
ATH	XI	20 02 49 15.9	37.52N	21.97E	24	3.0L			¶97xi3376
ISC	**XI**	**20 02 59 56**±4.4	**37.5N**±.26	**21.3E**±.53	**5**		**4**	**1-2**	
ATH	XI	20 02 59 55.9	37.42N	21.20E	5	3.2D			¶97xi3379
ISC	Poorly determined								
ISC	**XI**	**20 03 40 04**±7.0	**37.7N**±.51	**21.1E**±.25	**0**		**7**	**2-4**	
THE	XI	20 03 40 03.4	37.6N	21.0E	0				¶97xi3383
ISC	**XI**	**20 03 44 40**±1.3	**37.57N**±.079	**21.5E**±.15	**5**		**16**	**1-4**	
ATH	XI	20 03 44 42.7	37.64N	21.73E	5	3.1D			¶97xi3385
ISC	**XI**	**20 03 48 52**±1.3	**37.78N**±.071	**21.4E**±.13	**5**		**17**	**1-4**	
THE	XI	20 03 48 48.6	37.5N	21.5E	0				¶97xi3386
ATH	XI	20 03 48 55.3	37.66N	21.37E	5	3.3L			
ISC	**XI**	**20 04 16 01**±2.0	**37.57N**±.099	**21.1E**±.21	**5**		**15**	**1-4**	
THE	XI	20 04 16 00.1	37.5N	21.2E	0				¶97xi3391
ATH	XI	20 04 16 04.9	37.55N	21.30E	5	3.3D			
ISC	**XI**	**20 04 31 10**±8.3	**36.9N**±.58	**21.1E**±.28	**0**		**9**	**2-5**	
THE	XI	20 04 31 20.5	37.6N	21.0E	0				¶97xi3392
ISC	**XI**	**20 04 45 24**±3.1	**37.3N**±.18	**21.2E**±.21	**9**±27		**14**	**1-4**	
ATH	XI	20 04 45 23.2	37.20N	20.94E	5	3.1D			¶97xi3393
THE	XI	20 04 45 25.3	37.5N	21.1E	0				
ISC	**XI**	**20 04 54 04**±1.1	**36.96N**±.091	**21.16E**±.060	**43**±9.0	**3.8b**	**47**	**1-70**	
NEIC	XI	20 04 54 04.8	37.11N	21.16E	33	4.2b			¶97xi3394
ATH	XI	20 04 54 10.6	37.33N	21.53E	17	3.5L			
EIDC	XI	20 04 54 25.1	38.6N	21.2E	90	3.5b,3.9L			
NEIC	Less reliable solution.								
EIDC	LO CONF Depth								
ISC	**XI**	**20 05 06 04.7**±.52	**37.30N**±.039	**21.14E**±.035	**47**±5.7	**4.2b**	**114**	**1-79**	
EIDC	XI	20 05 06 00.6	37.3N	21.3E	0	4.3b,4.0L			¶97xi3397
ATH	XI	20 05 06 02.9	37.16N	21.16E	6	4.0L			
NEIC	XI	20 05 06 03.3	37.29N	21.22E	33	4.4b			
PDG	XI	20 05 06 04.4	37.3N	20.4E	12	4.1L			
THE	XI	20 05 06 06.1	37.4N	21.2E	10	4.0L			
ISC	**XI**	**20 05 12 03**±4.2	**37.4N**±.28	**21.5E**±.57	**4**		**4**	**0-2**	
ATH	XI	20 05 12 03.4	37.36N	21.43E	4	3.0D			¶97xi3398
ISC	Poorly determined								
ISC	**XI**	**20 05 39 27**±2.0	**37.6N**±.13	**21.4E**±.16	**10**±23		**16**	**1-4**	
ATH	XI	20 05 39 29.6	37.59N	21.52E	5	3.4D			¶97xi3399
ISC	**XI**	**20 06 27 06**±1.4	**37.54N**±.089	**21.2E**±.12	**5**		**23**	**1-4**	
THE	XI	20 06 27 08.6	37.7N	21.3E	0	3.4L			¶97xi3408
ATH	XI	20 06 27 10.4	37.53N	21.38E	5	3.4L			
ISC	**XI**	**20 07 47 14**±2.9	**37.5N**±.17	**21.2E**±.27	**8**±24		**5**	**1-2**	
ATH	XI	20 07 47 15.0	37.39N	21.03E	5	3.4D			¶97xi3417
ISC	Poorly determined								
ISC	**XI**	**20 08 15 12**±1.9	**37.4N**±.11	**21.0E**±.16	**5**	**3.6b**	**24**	**1-55**	
EIDC	XI	20 08 15 16.7	38.2N	22.5E	0	3.6b			¶97xi3420
ATH	XI	20 08 15 19.0	37.48N	21.41E	5	3.3L			
ISC	**XI**	**20 08 49 13**±6.5	**37.4N**±.34	**21.1E**±.63	**5**		**4**	**1-2**	
ATH	XI	20 08 49 15.0	37.37N	21.06E	5	3.2D			¶97xi3424
ISC	Poorly determined								
ATH	**XI**	**20 10 01 13.6**	**37.53N**	**21.47E**	**5**	**2.9D**			¶97xi3441
THE	**XI**	**20 10 09 10.9**	**37.3N**	**21.1E**	**0**				¶97xi3443
ISC	**XI**	**20 12 53 34**±4.2	**37.3N**±.18	**21.0E**±.29	**8**±26		**5**	**1-2**	
ATH	XI	20 12 53 34.9	37.25N	20.96E	5	2.9D			¶97xi3466
ISC	Poorly determined								
ATH	**XI**	**20 13 38 31.5**	**37.54N**	**21.45E**	**10**	**2.8D**			¶97xi3473
ISC	**XI**	**20 15 41 22**±3.8	**37.2N**±.19	**21.3E**±.27	**9**±25		**5**	**0-2**	
ATH	XI	20 15 41 23.9	37.28N	21.33E	5	3.0D			¶97xi3484
ISC	Poorly determined								
ISC	**XI**	**20 15 46 42**±2.8	**37.2N**±.17	**21.3E**±.22	**5**		**6**	**1-2**	
ATH	XI	20 15 46 44.4	37.17N	21.31E	5	3.2D			¶97xi3485
ISC	**XI**	**20 18 10 25**±2.1	**37.5N**±.11	**21.3E**±.21	**5**		**11**	**1-3**	
ATH	XI	20 18 10 20.5	37.34N	20.76E	5	3.4D			¶97xi3511
ISC	**XI**	**20 18 42 45**±1.7	**37.5N**±.10	**21.2E**±.16	**5**		**19**	**1-4**	
ATH	XI	20 18 42 41.0	37.25N	20.67E	5	3.7L			¶97xi3516
ISC	**XI**	**20 19 42 43**±3.0	**37.6N**±.13	**21.1E**±.23	**9**±25		**5**	**1-2**	
ATH	XI	20 19 42 45.3	37.58N	21.13E	5	3.0D			¶97xi3523
ISC	Poorly determined								
ISC	**XI**	**20 19 49 52**±2.6	**37.2N**±.13	**21.1E**±.16	**0**±12		**23**	**1-5**	
ATH	XI	20 19 49 53.0	37.22N	21.01E	5	3.6L			¶97xi3524
THE	XI	20 19 49 55.3	37.4N	21.2E	0				
ISC	**XI**	**21 01 10 24**±3.3	**37.4N**±.24	**21.1E**±.35	**5**		**5**	**1-2**	
ATH	XI	21 01 10 24.3	37.25N	21.00E	5	3.1D			¶97xi3561
ISC	**XI**	**21 04 00 35**±1.6	**37.5N**±.10	**21.1E**±.15	**20**		**14**	**1-4**	
THE	XI	21 04 00 30.7	37.2N	21.0E	20	3.3L			¶97xi3575
ATH	XI	21 04 00 32.8	37.40N	20.97E	5	3.4D			
ATH	**XI**	**21 05 09 43.3**	**37.56N**	**21.28E**	**10**				¶97xi3592
ISC	**XI**	**21 05 21 58**±3.4	**37.3N**±.20	**21.0E**±.29	**5**		**4**	**1-2**	
ATH	XI	21 05 21 58.8	37.25N	20.88E	5				¶97xi3594
ISC	Poorly determined								
ISC	**XI**	**21 05 35 20.9**±.62	**37.48N**±.051	**21.05E**±.055	**2**	**3.9b**	**50**	**1-122**	
ATH	XI	21 05 35 21.7	37.32N	20.97E	2	3.8D			¶97xi3597
THE	XI	21 05 35 22.7	37.5N	21.3E	0	3.6L			
EIDC	XI	21 05 35 24.3	37.6N	20.8E	0	4.0b,3.6L			
NEIC	XI	21 05 35 27.1	37.68N	20.77E	33	4.1b			
NEIC	Less reliable solution.								
ISC	**XI**	**21 06 37 34.1**±.87	**37.49N**±.066	**21.10E**±.098	**79**±9.8	**3.7b**	**32**	**1-70**	
NEIC	XI	21 06 37 29.5	37.39N	21.06E	33				¶97xi3608
THE	XI	21 06 37 29.7	37.3N	21.0E	10	3.5L			
ATH	XI	21 06 37 34.0	37.54N	21.01E	5	3.4D			
EIDC	XI	21 06 37 47.1	37.6N	20.8E	198	3.4b			
NEIC	Less reliable solution.								
ATH	**XI**	**21 07 26 11.4**	**37.77N**	**21.76E**	**15**				¶97xi3617
ISC	**XI**	**21 07 27 39**±3.7	**37.2N**±.25	**21.0E**±.30	**4**		**6**	**1-2**	
ATH	XI	21 07 27 39.7	37.19N	21.04E	4	2.9D			¶97xi3618
ISC	**XI**	**21 11 36 20**±2.4	**37.5N**±.11	**21.2E**±.23	**5**		**11**	**1-4**	
ATH	XI	21 11 36 15.1	37.36N	20.55E	5	3.3D			¶97xi3645
THE	XI	21 11 36 20.8	37.4N	20.9E	10				
ISC	**XI**	**21 13 26 26**±1.9	**37.7N**±.15	**21.1E**±.24	**10**		**4**	**1-2**	
ATH	XI	21 13 26 26.4	37.61N	21.02E	10				¶97xi3661
ISC	Poorly determined								
ATH	**XI**	**21 13 32 40.0**	**37.40N**	**21.60E**	**10**				¶97xi3663
ISC	**XI**	**21 13 53 54**±4.1	**37.2N**±.27	**21.0E**±.32	**5**		**4**	**1-2**	
ATH	XI	21 13 53 54.9	37.15N	20.95E	5				¶97xi3665
ISC	Poorly determined								
ISC	**XI**	**21 14 23 36**±2.1	**37.6N**±.15	**21.0E**±.26	**5**		**9**	**1-4**	
ATH	XI	21 14 23 36.0	37.40N	20.91E	5	3.4D			¶97xi3670
ISC	**XI**	**21 14 48 49**±1.3	**37.09N**±.068	**21.09E**±.058	**1**±8.0	**4.1b**	**37**	**1-80**	
ATH	XI	21 14 48 52.1	37.09N	21.19E	3	3.5L			¶97xi3672
THE	XI	21 14 48 53.0	37.1N	21.2E	20	3.6L			
EIDC	XI	21 14 49 16.9	38.8N	20.9E	133	3.6b			
ISC	**XI**	**21 19 17 31**±4.2	**37.2N**±.37	**21.2E**±.35	**4**±43		**5**	**1-2**	
ATH	XI	21 19 17 31.4	37.14N	21.11E	5	3.1D			¶97xi3718
ISC	Poorly determined								
ISC	**XI**	**21 19 27 30**±5.9	**37.1N**±.36	**21.0E**±.42	**5**		**6**	**1-3**	
ATH	XI	21 19 27 33.2	37.20N	21.13E	5	3.4L			¶97xi3720
ISC	**XI**	**21 19 53 59.4**±.93	**37.22N**±.083	**21.00E**±.054	**46**±6.7	**3.8b**	**48**	**1-85**	
THE	XI	21 19 53 56.7	37.1N	20.9E	10	3.5L			¶97xi3727
NEIC	XI	21 19 53 57.4	37.18N	21.17E	33	4.2b			
ATH	XI	21 19 53 59.7	37.36N	20.95E	19	3.7L			
EIDC	XI	21 19 54 19.0	38.5N	20.8E	123	3.6b			
ISC	**XI**	**21 20 45 01**±1.4	**37.5N**±.11	**21.7E**±.17	**28**±18		**7**	**0-2**	
ATH	XI	21 20 45 01.6	37.40N	21.71E	31	3.1L			¶97xi3738
ISC	**XI**	**21 21 23 00**±3.7	**37.2N**±.22	**21.1E**±.28	**5**		**4**	**1-2**	
ATH	XI	21 21 23 02.2	37.18N	21.14E	5	2.8D			¶97xi3745
ISC	Poorly determined								
ISC	**XI**	**22 00 26 58**±1.9	**37.59N**±.097	**21.2E**±.18	**5**		**17**	**1-4**	
ATH	XI	22 00 26 53.6	37.34N	20.72E	5	3.5L			¶97xi3764
ISC	**XI**	**22 01 48 56**±3.6	**37.2N**±.19	**21.1E**±.24	**5**±20		**6**	**1-2**	
ATH	XI	22 01 48 58.2	37.17N	21.06E	5	3.0D			¶97xi3777
ISC	**XI**	**22 01 56 22**±2.7	**37.3N**±.17	**21.2E**±.21	**3**±18		**6**	**1-2**	
ATH	XI	22 01 56 22.3	37.25N	21.04E	5	3.4L			¶97xi3778
ISC	**XI**	**22 02 02 17**±3.5	**37.1N**±.21	**21.1E**±.25	**5**		**6**	**1-3**	
ATH	XI	22 02 02 18.7	37.06N	21.09E	5	3.4L			¶97xi3780
ISC	**XI**	**22 02 12 17**±4.5	**37.2N**±.31	**21.1E**±.38	**5**		**5**	**1-2**	
ATH	XI	22 02 12 19.4	37.20N	21.14E	5	3.0D			¶97xi3781
ISC	**XI**	**22 03 12 23**±1.8	**37.49N**±.092	**21.2E**±.17	**5**		**20**	**1-4**	
ATH	XI	22 03 12 20.6	37.42N	20.94E	5	3.5L			¶97xi3790
THE	XI	22 03 12 22.4	37.3N	21.0E	10	3.2L			

Agency		Origin Time				φ	λ	h	Mag	n	Δ-Rng
		mo	d	h	m	s	°	°	km				°
ISC	**XI**	**22**	**04**	**28**	**35**±1.9	**37.6N**±.15	**21.1E**±.24	**5**			**5**	**1-2**
ATH	XI	22	04	28	35.2	37.54N	21.03E	5	3.2D		**¶97xi3805**	
ATH	**XI**	**22**	**07**	**15**	**37.5**	**37.64N**	**22.21E**	**10**	**3.1D**		**¶97xi3829**	
ISC	**XI**	**22**	**08**	**20**	**26**±4.4	**37.2N**±.20	**21.2E**±.29	**1**±27			**5**	**1-2**
ATH	XI	22	08	20	28.6	37.17N	21.19E	5	2.9D		**¶97xi3835**	
ISC	Poorly determined											
ISC	**XI**	**22**	**10**	**04**	**58**±2.1	**37.3N**±.12	**21.2E**±.18	**5**			**14**	**1-4**
ATH	XI	22	10	04	57.5	37.17N	21.00E	5	3.5L		**¶97xi3849**	
ISC	**XI**	**22**	**10**	**15**	**08**±3.4	**37.2N**±.18	**21.0E**±.27	**6**±14			**9**	**1-4**
ATH	XI	22	10	15	08.5	37.18N	20.96E	5	3.0D		**¶97xi3851**	
ISC	**XI**	**22**	**12**	**47**	**34**±2.2	**37.3N**±.13	**21.1E**±.17	**10**			**12**	**1-4**
THE	XI	22	12	47	33.1	37.1N	21.1E	10			**¶97xi3878**	
ATH	XI	22	12	47	33.2	37.22N	20.85E	5	3.5L			
ISC	**XI**	**22**	**14**	**45**	**16**±1.5	**37.57N**±.089	**21.1E**±.15	**5**	**3.6b**		**27**	**1-32**
ATH	XI	22	14	45	12.5	37.32N	20.70E	5	3.6L		**¶97xi3896**	
THE	XI	22	14	45	13.8	37.3N	20.9E	10	3.5L			
EIDC	XI	22	14	45	47.0	40.5N	20.5E	0	3.5b			
ISC	**XI**	**22**	**15**	**01**	**02**±2.6	**37.3N**±.15	**21.1E**±.22	**5**			**8**	**1-3**
ATH	XI	22	15	01	01.3	37.27N	20.90E	5	3.0D		**¶97xi3898**	
ISC	**XI**	**22**	**15**	**29**	**28**±2.0	**37.56N**±.097	**21.4E**±.21	**5**			**10**	**1-3**
ATH	XI	22	15	29	23.5	37.51N	20.86E	5	3.0D		**¶97xi3902**	
ISC	**XI**	**22**	**16**	**17**	**51**±2.2	**37.5N**±.13	**21.0E**±.15	**7**±20			**23**	**1-4**
ATH	XI	22	16	17	51.8	37.44N	20.86E	5	3.6L		**¶97xi3911**	
THE	XI	22	16	17	53.1	37.5N	21.1E	10	3.4L			
ISC	**XI**	**22**	**17**	**48**	**35**±1.3	**37.55N**±.079	**21.2E**±.11	**5**	**3.8b**		**28**	**1-69**
ATH	XI	22	17	48	32.3	37.38N	20.85E	5	3.6L		**¶97xi3927**	
THE	XI	22	17	48	34.6	37.4N	21.2E	10	3.4L			
EIDC	XI	22	17	48	45.5	39.0N	24.0E	0	3.6b			
ATH	**XI**	**22**	**19**	**18**	**09.5**	**37.40N**	**21.65E**	**5**	**3.0D**		**¶97xi3946**	
ISC	**XI**	**22**	**19**	**33**	**46**±2.6	**37.2N**±.15	**21.3E**±.19	**5**			**15**	**1-4**
ATH	XI	22	19	33	48.0	37.20N	21.37E	5	3.3L		**¶97xi3948**	
THE	XI	22	19	33	49.2	37.1N	21.7E	10	3.1L			
ISC	**XI**	**22**	**20**	**16**	**45**±2.6	**37.6N**±.13	**21.1E**±.25	**10**			**9**	**1-4**
THE	XI	22	20	16	40.6	37.2N	21.0E	10	3.0L		**¶97xi3956**	
ATH	XI	22	20	16	41.7	37.45N	20.69E	5	3.0D			
ISC	**XI**	**22**	**21**	**12**	**38**±1.2	**37.26N**±.093	**22.0E**±.10	**4**±16			**7**	**0-3**
ATH	XI	22	21	12	39.3	37.21N	21.90E	5	3.0L		**¶97xi3962**	
ISC	**XI**	**23**	**00**	**23**	**35**±1.7	**37.5N**±.12	**21.2E**±.17	**5**			**8**	**1-4**
ATH	XI	23	00	23	36.6	37.49N	21.22E	5	3.4L		**¶97xi3989**	
ISC	**XI**	**23**	**02**	**08**	**49**±2.5	**37.5N**±.18	**21.0E**±.28	**10**			**4**	**1-2**
ATH	XI	23	02	08	49.3	37.45N	20.96E	10	3.0D		**¶97xi4002**	
ISC	Poorly determined											
ATH	**XI**	**23**	**02**	**17**	**48.8**	**37.18N**	**21.86E**	**10**	**2.5D**		**¶97xi4004**	
ISC	**XI**	**23**	**03**	**07**	**44**±3.3	**37.3N**±.20	**21.1E**±.28	**5**			**4**	**1-2**
ATH	XI	23	03	07	45.2	37.26N	20.97E	5	3.1D		**¶97xi4011**	
ISC	Poorly determined											
ISC	**XI**	**23**	**03**	**25**	**23**±2.5	**37.4N**±.11	**21.1E**±.15	**4**±16			**19**	**1-5**
ATH	XI	23	03	25	23.2	37.31N	20.94E	5	3.6D		**¶97xi4013**	
THE	XI	23	03	25	24.7	37.4N	21.1E	10	3.2L			
ISC	**XI**	**23**	**04**	**45**	**07**±4.0	**37.3N**±.19	**21.2E**±.28	**5**±27			**5**	**1-2**
ATH	XI	23	04	45	08.1	37.20N	21.13E	5	2.9D		**¶97xi4034**	
ISC	Poorly determined											
ISC	**XI**	**23**	**05**	**03**	**26**±1.8	**37.7N**±.12	**21.0E**±.19	**85**±17	**3.5b**		**17**	**2-32**
EIDC	XI	23	05	03	17.9	37.7N	20.8E	0	3.7b		**¶97xi4039**	
NEIC	XI	23	05	03	21.3	37.63N	20.00E	33				
THE	XI	23	05	03	21.9	37.4N	20.9E	10	3.2L			
NEIC	Poor solution.											
ISC	**XI**	**23**	**05**	**46**	**38**±2.1	**37.5N**±.12	**21.3E**±.22	**10**			**15**	**1-4**
THE	XI	23	05	46	34.5	37.1N	21.0E	10	3.4L		**¶97xi4049**	
ATH	XI	23	05	46	34.7	37.35N	20.84E	5	3.4D			
ISC	**XI**	**23**	**06**	**07**	**17**±2.4	**37.6N**±.13	**21.2E**±.25	**5**			**10**	**1-4**
ATH	XI	23	06	07	11.2	37.36N	20.60E	5	3.1D		**¶97xi4051**	
ISC	**XI**	**23**	**07**	**02**	**44**±1.9	**37.5N**±.11	**21.5E**±.22	**5**			**11**	**0-4**
ATH	XI	23	07	02	38.2	37.31N	20.87E	5	3.3D		**¶97xi4059**	
ISC	**XI**	**23**	**09**	**34**	**54**±3.3	**37.3N**±.18	**21.3E**±.30	**5**			**8**	**1-5**
ATH	XI	23	09	34	46.5	37.16N	20.53E	5	3.6L		**¶97xi4087**	
ISC	**XI**	**23**	**10**	**30**	**09**±3.1	**37.4N**±.15	**21.1E**±.23	**10**±16			**9**	**1-5**
ATH	XI	23	10	30	09.3	37.34N	21.00E	5	3.5L		**¶97xi4094**	
ISC	**XI**	**23**	**10**	**40**	**11**±2.4	**37.5N**±.13	**21.0E**±.22	**5**			**16**	**1-5**
ATH	XI	23	10	40	08.4	37.41N	20.80E	5	3.5L		**¶97xi4097**	
ATH	**XI**	**23**	**11**	**13**	**24.0**	**37.09N**	**21.13E**	**5**	**2.8D**		**¶97xi4103**	
ISC	**XI**	**23**	**15**	**28**	**30**±2.9	**37.6N**±.11	**21.2E**±.24	**7**±14			**11**	**1-4**
THE	XI	23	15	28	26.6	37.2N	21.0E	10			**¶97xi4141**	
ATH	XI	23	15	28	27.0	37.41N	20.74E	5	3.1D			
ISC	**XI**	**23**	**18**	**29**	**35**±6.2	**37.6N**±.21	**21.2E**±.67	**5**			**5**	**1-2**
ATH	XI	23	18	29	38.5	37.71N	21.51E	5	3.2L		**¶97xi4171**	
ISC	**XI**	**23**	**21**	**43**	**27**±1.6	**37.52N**±.094	**21.3E**±.16	**5**			**13**	**1-4**
ATH	XI	23	21	43	29.3	37.53N	21.39E	5	3.2L		**¶97xi4203**	
ATH	**XI**	**23**	**21**	**46**	**52.4**	**37.56N**	**21.31E**	**10**	**2.8D**		**¶97xi4204**	
ISC	**XI**	**23**	**21**	**52**	**52.7**±.74	**37.11N**±.066	**21.11E**±.047	**55**±7.1	**3.7b**		**55**	**1-70**
THE	XI	23	21	52	50.4	37.0N	21.1E	10	3.7L		**¶97xi4206**	
NEIC	XI	23	21	52	51.6	37.16N	21.19E	33	4.1b			
ATH	XI	23	21	52	57.4	37.39N	21.67E	5	3.5L			
EIDC	XI	23	21	52	58.4	37.4N	21.2E	74	3.6b,3.8L			
ATH	**XI**	**23**	**22**	**16**	**31.5**	**37.18N**	**21.19E**	**5**	**2.9D**		**¶97xi4208**	
ISC	**XI**	**23**	**22**	**18**	**44**±1.4	**37.56N**±.077	**21.6E**±.15	**5**			**16**	**0-4**
ATH	XI	23	22	18	44.3	37.47N	21.39E	5	3.3L		**¶97xi4209**	
ATH	**XI**	**23**	**22**	**23**	**24.7**	**37.43N**	**21.48E**	**10**	**2.9D**		**¶97xi4212**	
ATH	**XI**	**23**	**22**	**49**	**14.6**	**37.35N**	**21.68E**	**10**	**3.0D**		**¶97xi4216**	
ATH	**XI**	**23**	**23**	**35**	**49.6**	**37.54N**	**21.50E**	**5**	**3.0D**		**¶97xi4226**	
ISC	**XI**	**24**	**00**	**46**	**02**±3.3	**37.3N**±.16	**21.5E**±.28	**5**			**5**	**0-2**
ATH	XI	24	00	45	58.1	37.22N	21.11E	5	3.3L		**¶97xi4236**	
ATH	**XI**	**24**	**01**	**56**	**49.5**	**37.16N**	**22.05E**	**34**	**2.4D**		**¶97xi4243**	
ISC	**XI**	**24**	**02**	**19**	**07**±1.3	**37.52N**±.068	**21.7E**±.17	**5**			**13**	**0-4**
ATH	XI	24	02	19	08.4	37.57N	21.84E	5	3.1L		**¶97xi4246**	
ISC	**XI**	**24**	**02**	**26**	**51**±8.0	**37.6N**±.29	**21.4E**±.98	**10**			**4**	**1-2**
ATH	XI	24	02	26	51.5	37.57N	21.29E	10			**¶97xi4250**	
ISC	Poorly determined											
ATH	**XI**	**24**	**04**	**01**	**04.3**	**37.46N**	**21.53E**	**10**	**2.9D**		**¶97xi4259**	
ATH	**XI**	**24**	**04**	**15**	**48.9**	**37.53N**	**21.35E**	**10**	**2.9D**		**¶97xi4262**	
ATH	**XI**	**24**	**04**	**37**	**17.7**	**37.34N**	**21.64E**	**10**	**2.9D**		**¶97xi4267**	
ISC	**XI**	**24**	**05**	**30**	**35.9**±.58	**37.39N**±.041	**21.06E**±.037	**41**±6.3	**4.2b,3.8s**		**129**	**1-122**
EIDC	XI	24	05	30	32.0	37.4N	21.1E	0	4.3b,4.0s		**¶97xi4270**	
THE	XI	24	05	30	34.0	37.3N	21.0E	10	4.2L			
NEIC	XI	24	05	30	34.5	37.31N	21.26E	33	4.4b			
PDG	XI	24	05	30	35.1	37.3N	19.9E	14	4.1L			
ATH	XI	24	05	30	39.9	37.50N	21.53E	5	4.1L			
BJI	XI	24	05	30	40.5	37.30N	21.30E	33				
ATH	**XI**	**24**	**06**	**32**	**58.5**	**37.41N**	**21.59E**	**10**	**2.9D**		**¶97xi4272**	
ISC	**XI**	**24**	**06**	**45**	**47**±2.1	**37.5N**±.11	**21.2E**±.18	**23**±12			**20**	**1-4**
THE	XI	24	06	45	44.4	37.3N	21.3E	10	3.4L		**¶97xi4273**	
ATH	XI	24	06	45	46.6	37.47N	21.15E	5	3.4L			
ISC	**XI**	**24**	**06**	**49**	**41**±8.1	**37.4N**±.35	**21.4E**±.89	**5**			**4**	**0-2**
ATH	XI	24	06	49	42.7	37.40N	21.40E	5	2.8D		**¶97xi4275**	
ISC	Poorly determined											
ISC	**XI**	**24**	**08**	**20**	**04**±2.4	**37.5N**±.16	**21.7E**±.40	**5**			**4**	**0-1**
ATH	XI	24	08	20	04.8	37.43N	21.61E	5	2.9D		**¶97xi4284**	
ISC	Poorly determined											
ATH	**XI**	**24**	**10**	**01**	**59.3**	**37.63N**	**21.80E**	**10**			**¶97xi4294**	
ISC	**XI**	**24**	**10**	**29**	**37**±3.6	**37.6N**±.20	**21.6E**±.42	**17**±29			**5**	**0-2**
ATH	XI	24	10	29	37.4	37.59N	21.55E	19	3.1D		**¶97xi4300**	
ISC	Poorly determined											
ISC	**XI**	**24**	**10**	**35**	**28**±1.3	**37.8N**±.10	**21.3E**±.12	**82**±11	**3.5b**		**23**	**1-69**
ATH	XI	24	10	35	27.5	37.78N	21.39E	10	3.3D		**¶97xi4301**	
NEIC	XI	24	10	35	31.2	37.98N	21.70E	100				
EIDC	XI	24	10	35	38.6	38.5N	22.0E	130	3.3b			
NEIC	Poor solution.											
ISC	**XI**	**24**	**11**	**39**	**51**±8.1	**37.4N**±.35	**21.4E**±.96	**5**			**4**	**0-2**
ATH	XI	24	11	39	53.7	37.47N	21.62E	5	3.0D		**¶97xi4311**	
ISC	Poorly determined											
ISC	**XI**	**24**	**11**	**46**	**22**±1.0	**36.94N**±.087	**21.25E**±.056	**45**±7.5	**3.8b**		**49**	**1-80**
NEIC	XI	24	11	46	20.5	36.88N	21.25E	33	3.8b		**¶97xi4313**	
THE	XI	24	11	46	22.6	37.0N	21.3E	10	3.7L			
ATH	XI	24	11	46	27.9	37.38N	21.71E	5	3.5L			
EIDC	XI	24	11	46	29.3	37.2N	21.3E	80	3.6b,4.3L			
NEIC	Poor solution.											
ISC	**XI**	**24**	**14**	**22**	**44**±2.0	**37.5N**±.13	**21.0E**±.15	**5**			**19**	**1-4**
ATH	XI	24	14	22	46.9	37.49N	21.14E	5	3.5L		**¶97xi4329**	
ATH	**XI**	**24**	**15**	**01**	**40.7**	**37.18N**	**21.86E**	**10**	**2.8D**		**¶97xi4332**	
ATH	**XI**	**24**	**15**	**12**	**35.9**	**37.63N**	**21.38E**	**10**			**¶97xi4336**	
ATH	**XI**	**24**	**16**	**14**	**22.8**	**37.62N**	**21.38E**	**5**	**2.9D**		**¶97xi4349**	
ATH	**XI**	**24**	**17**	**14**	**08.4**	**37.52N**	**21.53E**	**10**	**2.8D**		**¶97xi4354**	
ISC	**XI**	**24**	**18**	**41**	**00**±9.1	**37.3N**±.41	**21.4E**±.91	**5**			**5**	**0-2**
ATH	XI	24	18	40	59.3	37.22N	21.17E	5	3.1D		**¶97xi4360**	
ATH	**XI**	**24**	**19**	**18**	**58.8**	**37.30N**	**21.69E**	**10**	**2.9D**		**¶97xi4368**	
ISC	**XI**	**24**	**19**	**51**	**31**±1.9	**37.6N**±.11	**21.5E**±.26	**10**			**9**	**1-4**
ATH	XI	24	19	51	33.1	37.56N	21.60E	10	3.3L		**¶97xi4377**	
ATH	**XI**	**24**	**23**	**16**	**08.5**	**37.46N**	**21.40E**	**10**			**¶97xi4404**	
ISC	**XI**	**25**	**00**	**08**	**55**±3.4	**37.4N**±.20	**21.4E**±.41	**5**			**6**	**0-4**
ATH	XI	25	00	08	56.6	37.52N	21.47E	5	3.1D		**¶97xi4413**	
ISC	**XI**	**25**	**03**	**15**	**55**±6.9	**37.4N**±.23	**21.1E**±.48	**8**±28			**6**	**1-2**
ATH	XI	25	03	15	57.8	37.47N	21.24E	5	3.1D		**¶97xi4436**	
ATH	**XI**	**25**	**05**	**27**	**10.1**	**37.49N**	**21.43E**	**10**			**¶97xi4451**	
ISC	**XI**	**25**	**08**	**10**	**56**±2.1	**37.59N**±.085	**21.4E**±.17	**2**±13			**17**	**0-4**
ATH	XI	25	08	10	57.2	37.60N	21.33E	5	3.3D		**¶97xi4469**	
ATH	**XI**	**25**	**08**	**53**	**00.5**	**37.53N**	**21.35E**	**10**			**¶97xi4476**	
ATH	**XI**	**25**	**09**	**14**	**31.4**	**37.49N**	**21.42E**	**10**			**¶97xi4480**	
ISC	**XI**	**25**	**09**	**41**	**23**±1.6	**37.6N**±.10	**21.4E**±.20	**5**			**10**	**1-4**
ATH	XI	25	09	41	25.3	37.60N	21.42E	5	3.2D		**¶97xi4482**	
ATH	**XI**	**25**	**12**	**44**	**35.0**	**37.62N**	**21.39E**	**15**			**¶97xi4511**	
ISC	**XI**	**25**	**13**	**11**	**01**±3.1	**37.5N**±.17	**21.4E**±.43	**5**			**5**	**1-2**
ATH	XI	25	13	11	02.2	37.57N	21.48E	5			**¶97xi4518**	
ISC	**XI**	**25**	**13**	**57**	**27**±3.8	**37.6N**±.18	**21.7E**±.36	**14**±32			**6**	**0-3**
ATH	XI	25	13	57	27.3	37.51N	21.62E	5	3.1D		**¶97xi4529**	
ATH	**XI**	**25**	**15**	**21**	**46.8**	**37.58N**	**21.31E**	**5**			**¶97xi4539**	
ATH	**XI**	**25**	**17**	**19**	**15.7**	**37.49N**	**21.39E**	**15**			**¶97xi4552**	
ISC	**XI**	**25**	**17**	**59**	**34.5**±.66	**37.09N**±.061	**21.15E**±.044	**47**±7.4	**3.7b**		**53**	**1-70**
EIDC	XI	25	17	59	27.2	36.8N	20.7E	0	3.8b,3.8L		**¶97xi4556**	
NEIC	XI	25	17	59	33.0	37.03N	21.24E	33	4.0b			
THE	XI	25	17	59	33.7	37.1N	21.2E	10	3.7L			
ATH	XI	25	17	59	40.2	37.48N	21.85E	5	3.5L			
ATH	**XI**	**25**	**20**	**54**	**13.8**	**37.65N**	**21.38E**	**5**			**¶97xi4576**	
ATH	**XI**	**25**	**20**	**55**	**05.4**	**37.51N**	**21.49E**	**5**			**¶97xi4577**	
ATH	**XI**	**25**	**21**	**10**	**05.2**	**37.28N**	**22.02E**	**10**			**¶97xi4581**	
ISC	**XI**	**25**	**22**	**38**	**56**±4.3	**37.5N**±.22	**21.1E**±.46	**10**			**4**	**1-2**
ATH	XI	25	22	38	57.2	37.59N	21.24E	10			**¶97xi4592**	
ISC	Poorly determined											
ISC	**XI**	**26**	**01**	**36**	**53**±2.4	**37.5N**±.10	**21.2E**±.15	**4**±18			**23**	**1-5**
ATH	XI	26	01	36	53.1	37.45N	20.95E	5	3.5L		**¶97xi4608**	
THE	XI	26	01	36	53.3	37.4N	21.1E	10	3.4L			
ISC	**XI**	**26**	**01**	**52**	**24**±4.8	**37.2N**±.40	**21.2E**±.47	**74**			**4**	**1-3**
ATH	XI	26	01	52	24.4	37.17N	21.23E	74			**¶97xi4610**	
ISC	Poorly determined											
ISC	**XI**	**26**	**01**	**59**	**32**±5.5	**37.5N**±.36	**21.2E**±.68	**5**			**4**	**1-2**
ATH	XI	26	01	59	29.7	37.37N	20.81E	5			**¶97xi4612**	
ISC	Poorly determined											
ISC	**XI**	**26**	**03**	**31**	**51**±2.0	**37.6N**±.10	**21.4E**±.20	**5**			**9**	**1-4**
ATH	XI	26	03	31	52.1	37.59N	21.34E	5	3.3L		**¶97xi4621**	
ATH	**XI**	**26**	**07**	**32**	**50.4**	**37.53N**	**21.34E**	**10**			**¶97xi4648**	
ISC	**XI**	**26**	**13**	**16**	**56**±1.7	**37.60N**±.076	**21.4E**±.13	**7**±12			**21**	**0-4**
ATH	XI	26	13	16	57.1	37.61N	21.38E	5	3.3D		**¶97xi4687**	
ATH	**XI**	**26**	**13**	**20**	**24.9**	**37.59N**	**21.11E**	**10**	**3.0D**		**¶97xi4688**	
ATH	**XI**	**26**	**14**	**37**	**28.4**	**37.62N**	**21.35E**	**10**			**¶97xi4703**	
ISC	**XI**	**26**	**23**	**46**	**25**±5.9	**37.1N**±.43	**21.0E**±.41	**37**			**4**	**1-2**
ATH	XI	26	23	46	24.7	37.05N	21.00E	37	3.0D		**¶97xi4759**	
ISC	Poorly determined											
ATH	**XI**	**27**	**00**	**02**	**04.4**	**37.03N**	**22.45E**	**40**			**¶97xi4763**	
ISC	**XI**	**27**	**03**	**08**	**12**±2.9	**37.4N**±.18	**21.0E**±.28	**5**			**5**	**1-2**
ATH	XI	27	03	08	15.3	37.53N	21.15E	5	3.1D		**¶97xi4786**	
ISC	**XI**	**27**	**04**	**29**	**34.0**±.35	**37.37N**±.027	**21.00E**±.019	**43**±3.3	**4.8b,4.4s**		**329**	**1-147**
EIDC	XI	27	04	29	29.3	37.3N	21.1E	0	4.8b,4.2s		**¶97xi4793**	
BJI	XI	27	04	29	30.8	37.45N	20.99E	27	5.2b			
MOS	XI	27	04	29	31.5	37.2N	21.0E	33	5.4b,4.6s			
PDG	XI	27	04	29	32.2	37.2N	20.1E	11	4.7L,4.5D			
NEIC	XI	27	04	29	32.7	37.31N	21.00E	33	4.6b,4.2s			
THE	XI	27	04	29	33.7	37.3N	21.0E	10	4.5L			
ATH	XI	27	04	29	33.8	37.32N	21.01E	14	4.7L			
ISC	**XI**	**27**	**07**	**53**	**47**±3.2	**37.2N**±.20	**21.2E**±.26	**5**			**4**	**1-2**
ATH	XI	27	07	53	48.7	37.21N	21.17E	5	2.9D		**¶97xi4828**	
ISC	Poorly determined											
ISC	**XI**	**27**	**08**	**41**	**20**±1.2	**37.52N**±.064	**21.8E**±.19	**5**			**9**	**0-3**
ATH	XI	27	08	41	10.7	37.15N	20.77E	5	3.2D		**¶97xi4833**	
ISC	**XI**	**27**	**13**	**05**	**30.7**±.89	**37.52N**±.051	**22.1E**±.16	**5**			**13**	**0-4**
ATH	XI	27	13	05	23.0	37.16N	20.95E	5	3.0D		**¶97xi4861**	
ISC	**XI**	**27**	**14**	**30**	**27**±2.1	**37.5N**±.10	**21.2E**±.22	**10**			**11**	**1-4**
THE	XI	27	14	30	22.9	37.2N	21.0E	10	3.1L		**¶97xi4875**	
ATH	XI	27	14	30	23.3	37.43N	20.78E	5	3.1D			
ISC	**XI**	**27**	**14**	**47**	**26**±2.0	**37.5N**±.10	**21.1E**±.21	**5**			**13**	**1-4**
ATH	XI	27	14	47	21.5	37.43N	20.70E	5	3.1D		**¶97xi4879**	

ISC	**XI**	**27 17 13 43.9**±.58	**37.15N**±.054	**21.12E**±.044	**50**±6.3	**3.9b**	**54**	**1-80**	
NEIC	XI	27 17 13 41.4	37.01N	21.27E	33	3.8b			¶97xi4905
THE	XI	27 17 13 42.2	37.1N	21.1E	10	3.6L			
ATH	XI	27 17 13 42.6	37.17N	21.09E	5	3.8L			
EIDC	XI	27 17 13 52.5	37.4N	21.3E	98	3.7b			
ISC	**XI**	**27 19 50 58**±2.3	**37.2N**±.13	**21.3E**±.17	**5**		**14**	**1-4**	
ATH	XI	27 19 50 57.5	37.17N	21.09E	5	3.4D			¶97xi4925
ISC	**XI**	**27 20 42 46**±2.7	**37.4N**±.27	**21.2E**±.39	**1**±34		**5**	**1-2**	
ATH	XI	27 20 42 47.3	37.47N	21.15E	5	2.9D			¶97xi4935
ISC	Poorly determined								
ISC	**XI**	**27 22 59 30**±1.6	**37.5N**±.11	**21.3E**±.17	**5**		**5**	**1-2**	
ATH	XI	27 22 59 31.2	37.52N	21.33E	5	3.2D			¶97xi4956
ATH	**XI**	**28 00 37 49.9**	**37.67N**	**21.29E**	**10**				¶97xi4973
ATH	**XI**	**28 01 28 11.2**	**36.98N**	**21.51E**	**5**	**3.3L**			¶97xi4988
ATH	**XI**	**28 05 24 30.5**	**37.28N**	**21.23E**	**3**	**3.1D**			¶97xi5018
ISC	**XI**	**28 05 57 22.5**±.40	**37.29N**±.032	**21.05E**±.028	**46**±4.6	**4.4b**	**147**	**1-122**	
BJI	XI	28 05 57 18.6	37.12N	21.14E	33	5.0b			¶97xi5020
ATH	XI	28 05 57 19.6	37.15N	20.94E	5	4.4L			
NEIC	XI	28 05 57 21.3	37.24N	21.09E	33	4.3b			
THE	XI	28 05 57 22.1	37.2N	21.1E	10	4.1L			
EIDC	XI	28 05 57 22.4	37.3N	21.1E	27	4.2b,4.2L			
PDG	XI	28 05 57 23.2	37.3N	19.9E	12	4.4L			
ISC	**XI**	**28 06 12 16**±2.2	**37.4N**±.13	**21.4E**±.24	**5**		**13**	**0-4**	
ATH	XI	28 06 12 10.1	37.49N	20.91E	5	3.2D			¶97xi5025
ISC	**XI**	**28 07 57 41**±12	**37.5N**±.89	**21.3E**±.36	**33**		**5**	**2-3**	
									¶97xi5033
ISC	**XI**	**28 10 22 14.2**±.76	**37.33N**±.041	**21.02E**±.041	**30**±6.8	**3.9b**,3.8s	**69**	**1-122**	
THE	XI	28 10 22 13.2	37.3N	21.0E	10	3.8L			¶97xi5062
ATH	XI	28 10 22 13.9	37.31N	20.98E	5	3.8L			
NEIC	XI	28 10 22 13.9	37.35N	21.09E	33	4.1b			
EIDC	XI	28 10 22 19.6	37.6N	20.8E	61	3.7b,4.1L			
ISC	**XI**	**28 10 38 21**±2.1	**37.3N**±.13	**21.2E**±.18	**7**±11		**15**	**1-4**	
ATH	XI	28 10 38 22.2	37.31N	21.14E	5	3.2D			¶97xi5065
THE	XI	28 10 38 28.3	37.6N	21.5E	119				
ISC	**XI**	**28 11 33 15**±1.7	**37.5N**±.15	**21.3E**±.22	**5**		**5**	**1-2**	
ATH	XI	28 11 33 16.4	37.53N	21.29E	5				¶97xi5075
ISC	**XI**	**28 13 04 44**±1.4	**37.48N**±.093	**21.1E**±.11	**10**		**20**	**1-4**	
THE	XI	28 13 04 41.6	37.1N	21.2E	10	3.4L			¶97xi5087
ATH	XI	28 13 04 43.5	37.33N	20.93E	5	3.6L			
ISC	**XI**	**28 14 35 22**±1.5	**37.60N**±.071	**21.3E**±.11	**1**±10	3.8b	**27**	**0-25**	
ATH	XI	28 14 35 24.1	37.65N	21.29E	5	3.3L			¶97xi5101
THE	XI	28 14 35 26.2	37.5N	21.5E	19	3.3L			
ATH	**XI**	**28 17 29 57.0**	**37.54N**	**21.35E**	**10**	**2.9D**			¶97xi5119
ISC	**XI**	**28 20 32 56**±1.5	**37.69N**±.097	**21.4E**±.18	**5**		**4**	**0-1**	
ATH	XI	28 20 32 56.9	37.69N	21.39E	5	3.1D			¶97xi5140
ISC	Poorly determined								
ISC	**XI**	**28 20 51 19**±3.3	**37.3N**±.18	**21.1E**±.26	**5**		**5**	**1-2**	
ATH	XI	28 20 51 19.2	37.18N	20.96E	5	3.1D			¶97xi5142
ISC	**XI**	**29 00 08 47**±2.7	**37.2N**±.17	**21.2E**±.23	**5**		**5**	**1-2**	
ATH	XI	29 00 08 48.0	37.11N	21.23E	5	3.2D			¶97xi5161
ISC	**XI**	**29 04 29 05**±2.0	**37.3N**±.13	**21.2E**±.16	**5**		**15**	**1-4**	
ATH	XI	29 04 29 07.0	37.22N	21.13E	5	3.4D			¶97xi5197
THE	XI	29 04 29 07.7	37.4N	21.1E	10				
ISC	**XI**	**29 04 46 08**±2.3	**37.3N**±.13	**21.0E**±.20	**5**		**8**	**1-4**	
ATH	XI	29 04 46 08.9	37.27N	20.98E	5				¶97xi5201
ISC	**XI**	**29 05 54 02**±3.3	**37.3N**±.20	**21.1E**±.27	**5**		**4**	**1-2**	
ATH	XI	29 05 54 03.1	37.19N	21.01E	5	2.9D			¶97xi5206
ISC	Poorly determined								
ATH	**XI**	**29 08 20 39.6**	**36.98N**	**21.11E**	**5**	**2.9D**			¶97xi5223
ISC	**XI**	**29 12 48 09**±2.0	**37.4N**±.15	**21.3E**±.22	**5**		**4**	**1-2**	
ATH	XI	29 12 48 10.2	37.35N	21.22E	5	2.9D			¶97xi5269
ISC	Poorly determined								
ISC	**XI**	**29 13 39 36**±1.8	**37.4N**±.11	**21.1E**±.14	**5**		**14**	**1-5**	
ATH	XI	29 13 39 39.5	37.42N	21.17E	5	3.4L			¶97xi5274
ISC	**XI**	**29 13 49 50**±3.5	**37.0N**±.20	**21.1E**±.25	**5**		**6**	**1-2**	
ATH	XI	29 13 49 51.7	37.10N	21.19E	5	3.0D			¶97xi5275
ISC	**XI**	**29 14 25 26**±2.9	**37.4N**±.17	**21.0E**±.26	**5**		**4**	**1-2**	
ATH	XI	29 14 25 27.3	37.37N	20.95E	5	3.0D			¶97xi5279
ISC	Poorly determined								
ISC	**XI**	**29 22 39 58**±3.0	**37.4N**±.18	**21.1E**±.26	**5**		**4**	**1-2**	
ATH	XI	29 22 40 00.4	37.38N	21.11E	5	3.2D			¶97xi5334
ISC	Poorly determined								
ATH	**XI**	**30 00 00 37.0**	**36.63N**	**23.74E**	**31**	**2.8D**			¶97xi5343
ATH	**XI**	**30 07 01 26.0**	**37.09N**	**21.06E**	**5**				¶97xi5378
ISC	**XI**	**30 17 29 28**±3.4	**37.6N**±.12	**21.1E**±.29	**1**±15		**12**	**1-5**	
ATH	XI	30 17 29 29.8	37.57N	21.10E	5	3.4L			¶97xi5441
ISC	**XI**	**30 21 50 48**±3.0	**37.3N**±.19	**21.1E**±.26	**5**		**4**	**1-2**	
ATH	XI	30 21 50 48.4	37.19N	20.99E	5	3.4D			¶97xi5466
ISC	Poorly determined								
ISC	**XI**	**30 22 11 33**±3.8	**37.1N**±.23	**21.1E**±.27	**5**		**4**	**1-2**	
ATH	XI	30 22 11 34.4	37.08N	21.09E	5	3.1D			¶97xi5470
ISC	Poorly determined								
ISC	**XII**	**01 11 14 31**±2.2	**37.8N**±.13	**21.2E**±.24	**12**		**7**	**1-3**	
ATH	XII	01 11 14 20.0	37.56N	19.85E	12	3.2D			¶97xii0073
ISC	**XII**	**01 19 37 32**±2.8	**37.1N**±.17	**21.0E**±.26	**5**		**7**	**1-4**	
ATH	XII	01 19 37 33.5	37.04N	21.04E	5	3.4D			¶97xii0135
ISC	**XII**	**01 20 39 29**±2.4	**37.5N**±.12	**21.0E**±.11	**7**±12		**25**	**1-4**	
THE	XII	01 20 39 25.2	37.2N	20.8E	5	3.4L			¶97xii0143
ATH	XII	01 20 39 30.1	37.45N	21.00E	5	3.5L			
ISC	**XII**	**02 00 23 10.2**±.63	**37.37N**±.054	**21.01E**±.047	**60**±5.9	**3.9b**	**59**	**1-78**	
EIDC	XII	02 00 23 05.2±1.12	37.4N	21.2E	0	4.0b,4.1L			¶97xii0162
NEIC	XII	02 00 23 07.6	37.33N	21.16E	33	4.4b			
THE	XII	02 00 23 09.0	37.3N	21.1E	10	3.6L			
ATH	XII	02 00 23 11.1	37.40N	21.14E	17	3.6L			
EIDC	Error ellipse is semi-major=28.0km semi-minor=19.2km azimuth=70								
ISC	**XII**	**02 06 54 06**±2.4	**37.5N**±.14	**21.1E**±.23	**5**		**12**	**1-4**	
ATH	XII	02 06 54 01.3	37.28N	20.66E	5	3.4D			¶97xii0198
ATH	**XII**	**02 10 59 46.4**	**37.86N**	**21.15E**	**10**				¶97xii0230
ISC	**XII**	**02 15 10 12**±1.7	**37.6N**±.19	**21.2E**±.22	**51**±10	**3.7b**	**12**	**1-59**	
EIDC	XII	02 15 10 05.6±6.27	37.4N	21.1E	0	3.8b			¶97xii0268
ATH	XII	02 15 10 09.6	37.33N	21.04E	5	3.6L			
EIDC	Error ellipse is semi-major=121.2km semi-minor=38.4km azimuth=19								
ISC	**XII**	**03 11 33 50**±2.6	**37.5N**±.16	**21.0E**±.25	**5**		**4**	**1-2**	
ATH	XII	03 11 33 50.8	37.42N	20.94E	5	3.0D			¶97xii0410
ISC	Poorly determined								
ISC	**XII**	**03 14 39 58**±1.5	**37.47N**±.092	**21.1E**±.13	**15**		**20**	**1-5**	
THE	XII	03 14 39 54.1	37.1N	20.9E	15	3.5L			¶97xii0445
ATH	XII	03 14 39 55.6	37.30N	20.88E	5	3.7L			
ATH	**XII**	**03 14 50 54.9**	**37.63N**	**21.23E**	**10**	**2.6D**			¶97xii0447
ATH	**XII**	**03 16 16 51.5**	**37.49N**	**21.17E**	**10**	**2.7D**			¶97xii0458
ISC	**XII**	**04 23 13 01**±2.0	**37.6N**±.11	**21.2E**±.21	**5**		**16**	**1-4**	
ATH	XII	04 23 12 56.4	37.38N	20.55E	5	3.6D			¶97xii0716
ISC	**XII**	**05 08 26 06**±1.5	**37.55N**±.072	**21.6E**±.19	**2**		**18**	**0-4**	
ATH	XII	05 08 26 07.1	37.47N	21.54E	2	3.2D			¶97xii0811
ISC	**XII**	**05 18 11 41**±1.2	**37.8N**±.10	**21.5E**±.16	**10**		**5**	**1-2**	
ATH	XII	05 18 11 42.7	37.80N	21.41E	10	3.0D			¶97xii1007
ISC	**XII**	**06 11 04 04**±1.4	**37.9N**±.11	**21.3E**±.13	**6**±16		**5**	**0-1**	
ATH	XII	06 11 04 05.1	37.93N	21.29E	5	3.2D			¶97xii1374
ISC	Poorly determined								
ISC	**XII**	**06 16 55 14**±1.1	**37.93N**±.082	**21.3E**±.11	**17**		**14**	**1-4**	
ATH	XII	06 16 55 15.8	37.89N	21.32E	17	3.5D			¶97xii1468
ISC	**XII**	**06 18 02 07**±1.9	**37.4N**±.15	**21.6E**±.21	**10**		**4**	**1-2**	
ATH	XII	06 18 02 07.7	37.42N	21.54E	10	3.2D			¶97xii1486
ISC	Poorly determined								
ISC	**XII**	**07 07 22 48**±2.3	**37.5N**±.12	**21.1E**±.22	**5**		**10**	**1-4**	
THE	XII	07 07 22 46.6	37.4N	20.8E	5				¶97xii1648
ATH	XII	07 07 22 47.5	37.54N	20.85E	5	3.3D			
ISC	**XII**	**07 16 55 37**±1.6	**37.7N**±.13	**21.2E**±.20	**5**		**5**	**1-2**	
ATH	XII	07 16 55 39.5	37.69N	21.19E	5	3.0D			¶97xii1743
ISC	**XII**	**08 02 57 45**±3.0	**37.4N**±.20	**21.1E**±.26	**5**		**4**	**1-2**	
ATH	XII	08 02 57 44.2	37.32N	20.93E	5	2.8D			¶97xii1848
ISC	Poorly determined								
ISC	**XII**	**08 15 23 59**±4.0	**36.9N**±.25	**21.9E**±.26	**11**±16		**6**	**0-2**	
ATH	XII	08 15 23 59.0	36.86N	21.88E	8	3.3D			¶97xii1947
ISC	**XII**	**08 17 07 09**±2.2	**37.4N**±.13	**21.2E**±.20	**5**		**6**	**1-2**	
ATH	XII	08 17 07 11.0	37.43N	21.14E	5	3.1D			¶97xii1968
ISC	**XII**	**08 17 28 15**±1.4	**37.1N**±.15	**22.4E**±.25	**49**		**4**	**0-2**	
ATH	XII	08 17 28 15.0	37.18N	22.43E	49				¶97xii1973
ISC	Poorly determined								
ATH	**XII**	**08 18 31 31.0**	**37.57N**	**21.17E**	**15**				¶97xii1985
ISC	**XII**	**08 22 26 26**±5.4	**36.4N**±.35	**22.1E**±.19	**3**		**4**	**1-3**	
ATH	XII	08 22 26 26.5	36.33N	22.06E	3	3.0D			¶97xii2028
ISC	Poorly determined								
ISC	**XII**	**09 02 00 01**±1.4	**37.5N**±.11	**21.6E**±.22	**5**		**4**	**0-1**	
ATH	XII	09 02 00 02.9	37.51N	21.52E	5				¶97xii2074
ISC	Poorly determined								
ISC	**XII**	**09 07 28 01**±2.0	**37.5N**±.12	**21.0E**±.17	**5**		**6**	**1-2**	
ATH	XII	09 07 27 59.8	37.44N	20.92E	5				¶97xii2123
ISC	**XII**	**09 12 14 02**±2.8	**37.6N**±.14	**21.3E**±.20	**10**±32		**5**	**1-2**	
ATH	XII	09 12 14 03.5	37.61N	21.25E	10	2.9D			¶97xii2165
ISC	Poorly determined								
ISC	**XII**	**10 04 11 36**±1.0	**37.87N**±.072	**21.8E**±.14	**5**		**5**	**1-1**	
ATH	XII	10 04 11 36.9	37.90N	21.75E	5	2.6D			¶97xii2287
ATH	**XII**	**10 06 20 01.7**	**37.43N**	**21.48E**	**10**	**3.0D**			¶97xii2306
ATH	**XII**	**10 10 02 06.7**	**37.54N**	**21.60E**	**10**	**2.9D**			¶97xii2329
ISC	**XII**	**10 12 55 07**±2.6	**37.5N**±.12	**21.0E**±.28	**13**		**7**	**1-4**	
ATH	XII	10 12 55 10.1	37.52N	21.27E	13	3.1D			¶97xii2355
ISC	**XII**	**10 15 48 03.9**±.67	**36.36N**±.056	**21.99E**±.045	**56**±6.0	**4.0b**	**71**	**1-121**	
NEIC	XII	10 15 48 01.7	36.31N	22.14E	33	3.5b			¶97xii2382
ATH	XII	10 15 48 04.7	36.37N	22.10E	18	3.7L			
EIDC	XII	10 15 48 04.9±1.93	36.4N	22.5E	42±7.1	3.8b			
PDG	XII	10 15 48 07.1	36.5N	21.0E	11	4.6L			
EIDC	Error ellipse is semi-major=43.5km semi-minor=24.5km azimuth=34								
ISC	**XII**	**10 21 18 51**±3.7	**37.2N**±.22	**21.1E**±.28	**5**		**4**	**1-2**	
ATH	XII	10 21 18 52.1	37.16N	21.02E	5	3.1D			¶97xii2427
ISC	Poorly determined								
ATH	**XII**	**10 21 28 14.4**	**37.36N**	**21.00E**	**15**				¶97xii2428
ISC	**XII**	**11 07 40 17**±2.7	**37.5N**±.15	**21.1E**±.29	**10**		**6**	**1-3**	
ATH	XII	11 07 40 18.7	37.59N	21.30E	10	3.0D			¶97xii2517
ATH	**XII**	**11 09 14 47.6**	**37.59N**	**21.38E**	**5**				¶97xii2530
ATH	**XII**	**11 09 16 42.5**	**37.50N**	**21.45E**	**5**				¶97xii2531
ISC	**XII**	**11 15 02 11**±4.3	**37.0N**±.25	**21.1E**±.29	**5**		**4**	**1-2**	
ATH	XII	11 15 02 14.0	37.09N	21.20E	5	3.0D			¶97xii2588
ISC	Poorly determined								
ATH	**XII**	**12 00 09 15.1**	**37.53N**	**21.35E**	**10**				¶97xii2664
ATH	**XII**	**12 00 27 06.7**	**37.59N**	**21.33E**	**10**	**3.1D**			¶97xii2669
ATH	**XII**	**12 02 17 19.0**	**37.94N**	**21.41E**	**10**				¶97xii2681
ISC	**XII**	**12 10 59 11**±3.0	**37.1N**±.17	**21.1E**±.22	**5**		**12**	**1-4**	
ATH	XII	12 10 59 11.1	37.12N	21.00E	5	3.5D			¶97xii2735
ISC	**XII**	**12 14 01 08**±3.4	**37.2N**±.18	**21.1E**±.26	**5**		**8**	**1-3**	
ATH	XII	12 14 01 04.0	37.07N	20.62E	5	3.2D			¶97xii2759
ISC	**XII**	**12 14 41 25**±2.2	**37.5N**±.17	**21.2E**±.25	**10**		**4**	**1-2**	
ATH	XII	12 14 41 26.0	37.56N	21.10E	10	2.8D			¶97xii2763
ISC	Poorly determined								
ISC	**XII**	**13 17 21 47**±2.4	**37.1N**±.15	**21.5E**±.15	**5**		**8**	**0-4**	
ATH	XII	13 17 21 47.8	37.03N	21.47E	5	3.5L			¶97xii2983
ISC	**XII**	**14 06 16 24**±1.5	**37.61N**±.078	**21.4E**±.11	**23**±15		**29**	**1-5**	
ATH	XII	14 06 16 23.2	37.47N	21.17E	9	3.4L			¶97xii3099
ISC	**XII**	**14 07 44 03**±6.8	**37.3N**±.36	**21.1E**±.63	**18**±34		**5**	**1-2**	
ATH	XII	14 07 44 03.0	37.21N	21.02E	5	3.2D			¶97xii3113
ISC	Poorly determined								
ISC	**XII**	**14 08 30 21**±2.2	**37.3N**±.15	**21.0E**±.19	**70**±15	**3.5b**	**19**	**1-46**	
EIDC	XII	14 08 30 20.3±5.25	37.3N	21.2E	47±10.0	3.5b			¶97xii3116
ATH	XII	14 08 30 23.6	37.39N	21.46E	5	3.5L			
EIDC	Error ellipse is semi-major=97.3km semi-minor=32.7km azimuth=13								
ISC	**XII**	**15 22 49 03**±3.7	**37.2N**±.27	**21.2E**±.30	**5**		**6**	**1-4**	
ATH	XII	15 22 49 05.0	37.17N	21.24E	5	3.4L			¶97xii3353
ATH	**XII**	**15 23 38 19.1**	**37.66N**	**21.15E**	**10**	**2.8D**			¶97xii3357
ATH	**XII**	**16 00 36 51.6**	**37.14N**	**21.05E**	**5**	**2.7D**			¶97xii3363
ISC	**XII**	**16 02 19 17**±2.3	**37.4N**±.16	**21.3E**±.23	**5**		**6**	**1-3**	
ATH	XII	16 02 19 17.4	37.20N	21.11E	5	3.5D			¶97xii3370
ISC	**XII**	**16 16 27 48**±2.1	**37.3N**±.13	**21.0E**±.16	**5**		**15**	**1-5**	
ATH	XII	16 16 27 47.1	37.20N	20.86E	5	3.6L			¶97xii3476
THE	XII	16 16 27 48.9	37.2N	20.8E	20	3.1L			
ATH	**XII**	**16 20 31 37.5**	**37.47N**	**21.42E**	**10**	**2.9D**			¶97xii3497
ISC	**XII**	**17 15 32 46**±1.3	**37.72N**±.096	**21.1E**±.16	**5**		**13**	**1-4**	
ATH	XII	17 15 32 46.5	37.64N	21.00E	5	3.7D			¶97xii3625
ATH	**XII**	**17 20 34 13.4**	**36.97N**	**21.06E**	**10**				¶97xii3660
ISC	**XII**	**18 18 02 54**±3.5	**37.3N**±.22	**21.0E**±.31	**5**		**5**	**1-2**	
ATH	XII	18 18 02 54.1	37.25N	20.91E	5	3.0D			¶97xii3801
ATH	**XII**	**19 01 09 29.4**	**37.57N**	**21.19E**	**10**				¶97xii3867
ISC	**XII**	**19 09 30 05**±2.8	**37.3N**±.17	**21.0E**±.21	**5**		**6**	**1-2**	
ATH	XII	19 09 30 06.1	37.22N	20.96E	5	3.5L			¶97xii3922
ATH	**XII**	**19 16 46 05.1**	**37.55N**	**21.30E**	**10**	**3.0D**			¶97xii3994
ISC	**XII**	**19 17 36 18**±2.2	**37.6N**±.13	**21.0E**±.19	**5**		**4**	**1-1**	
ATH	XII	19 17 36 18.9	37.60N	20.96E	5	3.0D			¶97xii4005
ISC	Poorly determined								
ISC	**XII**	**19 18 18 24**±3.3	**37.2N**±.21	**21.2E**±.26	**5**		**4**	**1-2**	
ATH	XII	19 18 18 24.9	37.12N	21.12E	5	3.1D			¶97xii4013
ISC	Poorly determined								

Agency	mo	Origin Time d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
ATH	**XII**	**20 01 04 49.3**	**36.62N**	**22.28E**	**5**	**3.1L**	**¶97xii4062**	
ATH	**XII**	**20 01 20 16.1**	**37.97N**	**21.19E**	**10**	**2.5D**	**¶97xii4067**	
ISC	**XII**	**20 21 40 45**±3.2	**37.2N**±.19	**21.1E**±.25	**5**		**5**	**1-2**
ATH	XII	20 21 40 45.5	37.15N	21.02E	5	3.1D	**¶97xii4174**	
ISC	**XII**	**20 22 14 32**±2.8	**37.3N**±.18	**21.2E**±.25	**5**		**4**	**1-2**
ATH	XII	20 22 14 33.6	37.28N	21.19E	5	3.1D	**¶97xii4177**	
ISC		Poorly determined						
ISC	**XII**	**22 02 40 30**±1.4	**37.8N**±.18	**21.2E**±.25	**5**		**4**	**1-2**
ATH	XII	22 02 40 31.4	37.78N	21.10E	5	3.2D	**¶97xii4338**	
ISC		Poorly determined						
ATH	**XII**	**22 06 40 52.3**	**37.49N**	**21.30E**	**5**	**3.2D**	**¶97xii4370**	
ATH	**XII**	**22 07 00 07.9**	**37.25N**	**21.15E**	**5**	**3.1D**	**¶97xii4376**	
ISC	**XII**	**22 19 16 13**±1.8	**37.48N**±.098	**21.3E**±.18	**5**		**14**	**1-5**
ATH	XII	22 19 16 09.3	37.33N	20.87E	5	3.5L	**¶97xii4475**	
THE	XII	22 19 16 16.5	37.6N	20.8E	15			
ISC	**XII**	**23 00 05 46**±1.2	**37.8N**±.10	**21.8E**±.19	**12**		**4**	**1-1**
ATH	XII	23 00 05 46.8	37.77N	21.79E	12	2.9D	**¶97xii4506**	
ISC		Poorly determined						
ISC	**XII**	**23 18 19 52**±1.5	**37.9N**±.12	**21.1E**±.13	**5**		**5**	**0-2**
ATH	XII	23 18 19 52.4	37.85N	21.03E	5		**¶97xii4638**	
ISC	**XII**	**23 22 42 26**±2.8	**37.4N**±.17	**21.0E**±.27	**5**		**5**	**1-2**
ATH	XII	23 22 42 26.1	37.34N	20.96E	5	2.8D	**¶97xii4663**	
ATH	**XII**	**24 00 19 18.5**	**37.63N**	**21.30E**	**10**		**¶97xii4676**	
ATH	**XII**	**24 01 20 45.0**	**37.90N**	**21.05E**	**10**		**¶97xii4682**	
ISC	**XII**	**24 02 02 14**±2.8	**36.6N**±.18	**22.1E**±.27	**40**		**5**	**1-3**
ATH	XII	24 02 02 14.4	36.54N	22.05E	40	3.0L	**¶97xii4687**	
ATH	**XII**	**24 07 16 58.0**	**37.56N**	**21.36E**	**10**		**¶97xii4717**	
ISC	**XII**	**24 08 47 23**±3.7	**37.2N**±.22	**21.1E**±.29	**5**		**4**	**1-2**
ATH	XII	24 08 47 24.4	37.13N	21.05E	5	3.1D	**¶97xii4726**	
ISC		Poorly determined						
ISC	**XII**	**24 09 44 32**±1.4	**37.7N**±.12	**21.4E**±.19	**10**		**4**	**1-2**
ATH	XII	24 09 44 33.4	37.75N	21.29E	10	3.3D	**¶97xii4735**	
ISC		Poorly determined						
ISC	**XII**	**24 11 54 53**±3.3	**37.4N**±.15	**21.2E**±.26	**11**±26		**5**	**1-2**
ATH	XII	24 11 54 53.9	37.41N	21.16E	5	2.9D	**¶97xii4753**	
ISC		Poorly determined						
ISC	**XII**	**25 06 26 16**±3.5	**37.1N**±.22	**21.3E**±.24	**5**		**4**	**0-2**
ATH	XII	25 06 26 18.3	37.07N	21.34E	5	2.9D	**¶97xii4879**	
ISC		Poorly determined						
ISC	**XII**	**25 22 34 20**±3.4	**37.2N**±.20	**21.1E**±.28	**5**		**4**	**1-2**
ATH	XII	25 22 34 21.4	37.23N	21.04E	5		**¶97xii4997**	
ISC		Poorly determined						
ATH	**XII**	**26 04 44 46.9**	**37.49N**	**21.38E**	**10**		**¶97xii5046**	
ATH	**XII**	**26 06 55 48.2**	**36.98N**	**21.00E**	**5**		**¶97xii5071**	
ATH	**XII**	**26 10 27 09.2**	**37.05N**	**21.05E**	**5**		**¶97xii5102**	
ATH	**XII**	**26 14 59 58.7**	**36.63N**	**22.47E**	**10**		**¶97xii5154**	
ATH	**XII**	**26 20 07 40.2**	**37.29N**	**22.62E**	**10**		**¶97xii5193**	
ISC	**XII**	**28 12 32 56**±3.4	**37.3N**±.20	**21.0E**±.29	**5**		**4**	**1-2**
ATH	XII	28 12 32 58.0	37.30N	20.97E	5	3.2D	**¶97xii5452**	
ISC		Poorly determined						
ATH	**XII**	**29 07 03 08.2**	**37.66N**	**21.67E**	**10**	**3.0D**	**¶97xii5555**	
ISC	**XII**	**29 14 08 31**±2.3	**37.3N**±.15	**21.1E**±.20	**5**		**8**	**1-3**
ATH	XII	29 14 08 29.2	37.22N	20.91E	5	3.5D	**¶97xii5593**	
ATH	**XII**	**29 20 26 44.5**	**37.89N**	**21.14E**	**10**	**3.0D**	**¶97xii5634**	
ATH	**XII**	**29 23 06 37.2**	**36.61N**	**21.04E**	**10**	**3.2D**	**¶97xii5651**	
ATH	**XII**	**30 19 48 47.9**	**36.35N**	**22.56E**	**36**	**3.2D**	**¶97xii5780**	
ATH	**XII**	**31 10 53 04.6**	**37.55N**	**21.63E**	**10**	**2.8D**	**¶97xii5882**	
ATH	**XII**	**31 11 49 34.5**	**36.99N**	**21.05E**	**10**	**2.8D**	**¶97xii5890**	

(369) Dodecanese Islands.

ISC	**VII**	**01 10 44 40.5**±.75	**36.86N**±.055	**27.32E**±.076	**5**		**13**	**1-5**
ATH	VII	01 10 44 41.5	36.81N	27.29E	5	3.8D	**¶97vii0070**	
ATH	**VII**	**04 05 54 12.8**	**36.12N**	**27.15E**	**10**	**3.6D**	**¶97vii0512**	
ISC	**VII**	**04 15 55 44**±1.3	**36.7N**±.15	**27.3E**±.11	**5**		**4**	**1-2**
ATH	VII	04 15 55 44.4	36.71N	27.27E	5	3.5D	**¶97vii0589**	
ISC		Poorly determined						
ISC	**VII**	**05 01 18 12**±1.7	**36.86N**±.072	**27.4E**±.11	**4**±18		**7**	**1-5**
ATH	VII	05 01 18 15.0	36.77N	27.41E	5	3.6D	**¶97vii0656**	
ATH	**VII**	**06 12 36 32.6**	**35.54N**	**27.00E**	**10**	**3.4D**	**¶97vii0885**	
ATH	**VII**	**06 19 13 29.8**	**36.00N**	**27.53E**	**35**		**¶97vii0922**	
ATH	**VII**	**06 19 28 28.5**	**36.21N**	**27.36E**	**20**	**3.3D**	**¶97vii0924**	
ISC	**VII**	**06 23 25 34.2**±.29	**36.47N**±.050	**26.56E**±.042	**146**±6.6	**3.7b**	**58**	**1-26**
NEIC	VII	06 23 25 34.2	36.42N	26.61E	150	3.9b	**¶97vii0950**	
ATH	VII	06 23 25 36.8	36.60N	26.63E	122	3.8L		
EIDC	VII	06 23 25 39.3	36.5N	26.2E	162	3.2b		
ISC	**VII**	**10 01 21 33.9**±.84	**35.62N**±.036	**28.00E**±.032	**28**±8.3	**3.8b**	**93**	**1-80**
ISK	VII	10 01 21 28.4	35.48N	27.67E	9	3.8D	**¶97vii1426**	
NEIC	VII	10 01 21 34.3	35.72N	28.12E	33	3.9b		
ATH	VII	10 01 21 35.2	35.84N	27.95E	5	4.0L		
EIDC	VII	10 01 21 38.8	35.8N	28.3E	53	3.6b,4.1L		
ATH	**VII**	**11 00 09 38.8**	**36.01N**	**27.01E**	**10**	**3.6D**	**¶97vii1595**	
ISC	**VII**	**14 18 00 01**±1.4	**35.3N**±.10	**27.88E**±.063	**21**±11	3.6b	**25**	**1-24**
ATH	VII	14 18 00 04.8	35.68N	27.67E	4	3.9D	**¶97vii2185**	
THE	VII	14 18 00 05.0	35.7N	27.7E	5			
ISC	**VII**	**17 12 13 48**±1.0	**36.42N**±.061	**28.1E**±.13	**9**±12		**7**	**0-2**
ATH	VII	17 12 13 49.2	36.31N	28.15E	20		**¶97vii2591**	
ISK	VII	17 12 13 54.2	36.85N	28.62E	33	3.2D		
ISC	**VII**	**17 13 21 01**±1.0	**36.41N**±.048	**28.19E**±.084	**5**±10		**20**	**0-6**
ISK	VII	17 13 20 57.7	36.25N	28.03E	33	3.8D	**¶97vii2600**	
ATH	VII	17 13 21 03.5	36.17N	28.28E	5	4.0D		
ISK	**VII**	**17 20 52 52.3**	**36.90N**	**28.67E**	**33**	**3.1D**	**¶97vii2643**	
ISC	**VII**	**17 23 00 01**±2.2	**35.5N**±.20	**27.9E**±.17	**10**		**5**	**1-2**
ATH	VII	17 23 00 03.8	35.70N	27.69E	10	3.7D	**¶97vii2657**	
ISC	**VII**	**18 01 45 22.5**±.72	**36.25N**±.037	**28.21E**±.043	**29**±7.3	**3.6b**	**62**	**0-30**
ISK	VII	18 01 45 22.2	36.46N	28.02E	9	4.0D	**¶97vii2675**	
NEIC	VII	18 01 45 22.6	36.13N	28.14E	33	3.7b		
THE	VII	18 01 45 23.2	36.4N	28.2E	14			
ATH	VII	18 01 45 23.5	36.34N	28.15E	18	4.1L		
EIDC	VII	18 01 45 25.4	36.2N	28.3E	59	3.4b,4.0L		
ISC	**VII**	**18 09 56 26**±1.7	**36.4N**±.15	**28.1E**±.15	**6**		**5**	**0-2**
ATH	VII	18 09 56 26.7	36.42N	28.12E	6		**¶97vii2722**	
ISC		Poorly determined						
ISC	**VII**	**18 16 06 30**±1.1	**36.47N**±.098	**27.5E**±.13	**35**		**7**	**1-3**
ISK	VII	18 16 06 29.3	37.64N	28.34E	8	3.3D	**¶97vii2766**	
ATH	VII	18 16 06 30.3	36.46N	27.55E	35	3.7D		
ATH	**VII**	**19 19 10 44.3**	**35.80N**	**27.25E**	**10**	**3.6D**	**¶97vii2938**	
ISC	**VII**	**20 03 34 14**±1.1	**36.3N**±.14	**28.3E**±.15	**3**		**8**	**0-3**
ATH	VII	20 03 34 17.4	36.15N	28.15E	3	3.8D	**¶97vii2995**	
ATH	**VII**	**21 04 48 14.0**	**36.43N**	**27.14E**	**10**	**3.6D**	**¶97vii3195**	
ATH	**VII**	**21 12 20 04.2**	**36.75N**	**27.50E**	**10**	**3.6D**	**¶97vii3242**	
ISK	VII	21 12 20 05.5	36.97N	28.08E	10	3.2D		
ATH	**VII**	**24 15 31 04.1**	**35.33N**	**27.55E**	**5**	**3.9D**	**¶97vii3689**	
ISC	**VII**	**27 03 42 22.9**±.59	**36.18N**±.069	**27.72E**±.051	**5**		**15**	**0-8**
ATH	VII	27 03 42 24.8	36.30N	27.64E	5	4.0D	**¶97vii4051**	
ISC	**VII**	**28 01 53 01.5**±.97	**36.3N**±.12	**27.4E**±.13	**58**		**6**	**1-3**
ATH	VII	28 01 53 01.5	36.28N	27.44E	58	3.5D	**¶97vii4195**	
ISC	**VII**	**31 13 20 19**±7.1	**35.8N**±.65	**27.9E**±.82	**10**		**5**	**0-2**
ATH	VII	31 13 20 20.6	35.98N	27.77E	10	3.6D	**¶97vii4735**	
ATH	**VII**	**31 13 24 09.2**	**36.06N**	**28.88E**	**10**	**3.8D**	**¶97vii4736**	
ISC	**VIII**	**04 05 10 47.8**±.78	**36.38N**±.082	**27.13E**±.091	**36**		**10**	**1-3**
ATH	VIII	04 05 10 49.6	36.23N	27.33E	36	3.7D	**¶97viii0461**	
ISC	**VIII**	**04 20 53 33.5**±.84	**36.26N**±.079	**27.1E**±.10	**82**±9.6	**3.8b**	**51**	**1-46**
THE	VIII	04 20 53 29.9	36.6N	27.3E	13	3.9L	**¶97viii0550**	
ATH	VIII	04 20 53 31.3	36.57N	27.35E	39	3.9L		
NEIC	VIII	04 20 53 42.6	36.60N	26.80E	150	4.0b		
EIDC	VIII	04 20 53 43.6	36.6N	27.0E	142	3.6b		
NEIC		Less reliable solution.						
ISC	**VIII**	**05 21 10 37**±1.3	**36.6N**±.14	**25.6E**±.15	**6**		**4**	**0-2**
ATH	VIII	05 21 10 38.1	36.60N	25.56E	6	3.6D	**¶97viii0716**	
ISC		Poorly determined						
ATH	**VIII**	**06 15 29 27.0**	**36.54N**	**25.14E**	**41**		**¶97viii0816**	
ATH	**VIII**	**07 02 07 02.7**	**36.34N**	**28.31E**	**15**		**¶97viii0871**	
ISC	**VIII**	**08 07 52 08.4**±.98	**36.43N**±.098	**27.02E**±.081	**5**		**7**	**1-3**
ATH	VIII	08 07 52 10.1	36.39N	27.00E	5	3.7D	**¶97viii1070**	
ISC	**VIII**	**08 08 33 55.8**±.56	**36.57N**±.068	**27.15E**±.047	**5**		**21**	**1-6**
ISK	VIII	08 08 33 55.0	36.68N	27.09E	33	3.7D	**¶97viii1077**	
ATH	VIII	08 08 33 58.0	36.56N	27.17E	5	4.1L		
ISC	**VIII**	**08 08 40 02.6**±.63	**36.48N**±.067	**26.99E**±.053	**5**	**3.7b**	**26**	**1-57**
ATH	VIII	08 08 40 04.3	36.38N	27.04E	5	4.2L	**¶97viii1078**	
ISK	VIII	08 08 40 04.9	36.80N	27.12E	33	3.7D		
EIDC	VIII	08 08 40 05.1	36.3N	26.3E	0	3.7b,3.6L		
NEIC	VIII	08 08 40 07.8	36.25N	26.41E	33			
NEIC		Less reliable solution.						
ISC	**VIII**	**08 09 17 10.3**±.24	**36.51N**±.031	**27.11E**±.027	**5**	**4.3b,4.0s**	**133**	**1-92**
EIDC	VIII	08 09 17 11.1	36.6N	27.2E	0	4.1b,4.1s	**¶97viii1082**	
ATH	VIII	08 09 17 12.0	36.74N	27.11E	5	4.4L		
ISK	VIII	08 09 17 12.3	36.72N	27.09E	33	4.1D		
THE	VIII	08 09 17 12.3	36.5N	27.0E	1	4.4L		
NEIC	VIII	08 09 17 12.9	36.45N	27.19E	33	4.3b,4.0s		
ISC	**VIII**	**08 09 25 31.9**±.76	**36.50N**±.040	**27.08E**±.038	**24**±7.4	**3.9b**	**61**	**1-57**
ISK	VIII	08 09 25 32.2	36.78N	26.95E	6	3.8D	**¶97viii1083**	
THE	VIII	08 09 25 32.4	36.7N	27.1E	3	4.5L		
NEIC	VIII	08 09 25 32.6	36.42N	27.07E	33	4.0b		
ATH	VIII	08 09 25 32.9	36.56N	27.08E	5	4.5L		
EIDC	VIII	08 09 25 34.5	36.5N	27.0E	27	3.8b,3.8L		
ISC	**VIII**	**08 09 40 55.4**±.54	**36.56N**±.062	**27.08E**±.049	**10**	**3.8b**,2.9s	**42**	**1-32**
EIDC	VIII	08 09 40 53.9	36.5N	27.4E	0	3.8b,3.8L	**¶97viii1086**	
ISK	VIII	08 09 40 55.2	37.10N	26.90E	10	3.8D		
THE	VIII	08 09 40 56.5	36.3N	27.0E	10	4.0L		
NEIC	VIII	08 09 40 56.8	36.43N	26.67E	33	4.1b		
ATH	VIII	08 09 40 58.8	36.45N	27.20E	22	4.0L		
NEIC		Less reliable solution.						
ISC	**VIII**	**08 09 43 41**±1.2	**36.5N**±.12	**26.91E**±.099	**5**		**5**	**1-3**
ATH	VIII	08 09 43 42.9	36.45N	26.99E	5	3.7D	**¶97viii1087**	
ISC	**VIII**	**08 10 06 13.9**±.99	**36.63N**±.093	**27.18E**±.091	**5**		**7**	**1-3**
ATH	VIII	08 10 06 16.0	36.57N	27.17E	5	3.7D	**¶97viii1091**	
ISC	**VIII**	**08 11 09 21.8**±.94	**36.62N**±.080	**27.34E**±.086	**10**		**12**	**1-5**
ISK	VIII	08 11 09 18.0	36.56N	27.05E	33	3.4D	**¶97viii1104**	
ATH	VIII	08 11 09 22.6	36.49N	27.31E	10	3.9D		
ATH	**VIII**	**08 11 50 48.5**	**36.52N**	**26.98E**	**5**	**3.4D**	**¶97viii1111**	
ATH	**VIII**	**08 12 46 03.7**	**36.50N**	**27.00E**	**10**	**3.4D**	**¶97viii1119**	
ISC	**VIII**	**08 18 09 55.2**±.96	**36.46N**±.080	**27.1E**±.13	**31**		**7**	**1-3**
ATH	VIII	08 18 09 56.5	36.38N	27.06E	31	3.7D	**¶97viii1147**	
ISC	**VIII**	**08 18 46 51**±1.3	**36.6N**±.12	**27.0E**±.13	**5**		**4**	**1-1**
ATH	VIII	08 18 46 52.7	36.54N	27.01E	5	3.5D	**¶97viii1151**	
ISC		Poorly determined						
ISC	**VIII**	**08 22 06 05**±1.3	**36.6N**±.12	**27.0E**±.13	**10**		**4**	**1-1**
ATH	VIII	08 22 06 06.0	36.53N	27.04E	10	3.5D	**¶97viii1170**	
ISC		Poorly determined						
ISC	**VIII**	**08 22 20 56**±1.3	**36.6N**±.12	**27.1E**±.12	**10**		**4**	**1-1**
ATH	VIII	08 22 20 57.7	36.55N	27.04E	10	3.6D	**¶97viii1171**	
ISC		Poorly determined						
ISC	**VIII**	**08 22 25 53**±1.3	**36.6N**±.12	**27.1E**±.13	**10**		**4**	**1-1**
ATH	VIII	08 22 25 54.7	36.50N	27.00E	10	3.5D	**¶97viii1172**	
ISC		Poorly determined						
ISC	**VIII**	**08 23 14 42.6**±.44	**36.00N**±.043	**27.13E**±.044	**46**±7.1	**3.6b**	**60**	**1-42**
NEIC	VIII	08 23 14 41.6	35.97N	27.10E	33	3.8b	**¶97viii1177**	
ISK	VIII	08 23 14 41.8	36.10N	26.79E	10	3.6D		
THE	VIII	08 23 14 42.3	36.1N	27.1E	12	4.0L		
ATH	VIII	08 23 14 43.7	36.04N	27.11E	38	4.0L		
EIDC	VIII	08 23 14 52.7	36.2N	26.9E	120	3.4b		
ISC	**VIII**	**09 06 47 07.7**±.42	**35.91N**±.035	**27.07E**±.038	**51**±6.2	**4.0b**,2.9s	**110**	**1-87**
RYD	VIII	09 06 46 38.2	37.74N	25.24E	38	3.6D	**¶97viii1215**	
NEIC	VIII	09 06 47 03.7	35.96N	27.06E	10	4.0b		
EIDC	VIII	09 06 47 04.3	36.0N	26.9E	0	4.1b,4.2L		
ISK	VIII	09 06 47 08.3	35.97N	26.98E	10	3.7D		
THE	VIII	09 06 47 09.0	36.0N	26.9E	58	4.3L		
ATH	VIII	09 06 47 11.0	36.39N	27.14E	39	4.2L		
ISC	**VIII**	**09 17 04 01**±2.1	**36.66N**±.065	**25.27E**±.068	**22**±17	**3.8b**,2.8s	**53**	**2-32**
ATH	VIII	09 17 03 58.8	36.61N	25.60E	17	4.0L	**¶97viii1289**	
THE	VIII	09 17 04 00.6	36.6N	25.6E	54	4.1L		
NEIC	VIII	09 17 04 02.3	36.62N	25.25E	33	3.8b		
EIDC	VIII	09 17 04 04.8	36.4N	25.3E	47	3.6b,3.4L		
NEIC		Less reliable solution.						
ISC	**VIII**	**10 03 27 23**±1.2	**35.2N**±.11	**27.15E**±.072	**56**±11	**3.5b**,3.1s	**35**	**1-31**
ATH	VIII	10 03 27 19.1	35.07N	27.21E	5	4.0D	**¶97viii1344**	
EIDC	VIII	10 03 27 20.5	35.1N	26.8E	0	3.6b,3.5L		
NEIC	VIII	10 03 27 28.6	35.21N	26.85E	100	3.7b		
NEIC		Less reliable solution.						
ATH	**VIII**	**11 17 02 17.5**	**36.18N**	**26.86E**	**10**	**3.3D**	**¶97viii1592**	
ISC	**VIII**	**12 23 28 40.0**±.78	**35.65N**±.078	**27.18E**±.085	**2**		**8**	**0-3**
ATH	VIII	12 23 28 40.9	35.62N	27.21E	2	3.9D	**¶97viii1821**	
ATH	**VIII**	**13 09 03 54.2**	**36.24N**	**26.60E**	**5**	**3.7L**	**¶97viii1881**	
ISC	**VIII**	**17 02 55 49.7**±.71	**36.65N**±.076	**26.85E**±.075	**39**±13	**3.4b**	**18**	**1-42**
EIDC	VIII	17 02 55 50.0	36.5N	26.1E	0	3.6b	**¶97viii2468**	
ISK	VIII	17 02 55 50.1	37.04N	27.05E	10	3.3D		
ATH	VIII	17 02 55 52.6	36.28N	27.14E	39	4.0L		

ISC	**VIII**	**18**	**12**	**14**	**44**±1.1	**36.66N**±.096	**27.1E**±.10	**9**			**7**	**1-3**
ATH	VIII	18	12	14	48.1	36.53N	27.14E	9	3.6D		¶**97viii2675**	
ISC	**VIII**	**21**	**20**	**29**	**27.7**±.87	**36.45N**±.062	**27.21E**±.050	**17**±9.8	4.2b		**31**	**1-25**
ATH	VIII	21	20	29	28.1	36.43N	27.29E	5	4.2L		¶**97viii3140**	
ISK	VIII	21	20	29	29.2	36.73N	27.41E	33	3.7D			
ISC	**VIII**	**22**	**23**	**20**	**21.2**±.91	**36.36N**±.075	**27.30E**±.091	**10**			**8**	**1-3**
ATH	VIII	22	23	20	21.6	36.38N	27.34E	10	3.5D		¶**97viii3302**	
ISC	**VIII**	**23**	**00**	**32**	**23.1**±.38	**35.96N**±.040	**27.59E**±.043	**5**	**3.7b**		**48**	**1-26**
NEIC	VIII	23	00	32	26.3	36.30N	27.94E	33	3.7b		¶**97viii3310**	
ATH	VIII	23	00	32	33.9	35.72N	28.26E	5	4.0D			
ISK	VIII	23	00	32	34.7	36.56N	27.97E	10	3.5D			
ISC	**VIII**	**25**	**02**	**52**	**43.1**±.73	**36.65N**±.070	**27.17E**±.078	**5**			**11**	**1-5**
ATH	VIII	25	02	52	44.1	36.65N	27.14E	5	3.6D		¶**97viii3629**	
ISC	**VIII**	**25**	**05**	**50**	**18.6**±.51	**36.71N**±.047	**27.18E**±.042	**14**	3.0s		**42**	**1-24**
NEIC	VIII	25	05	50	01.3	35.25N	28.06E	10	3.6b,3.1s		¶**97viii3651**	
ISK	VIII	25	05	50	14.1	36.35N	26.82E	5	3.8D			
ATH	VIII	25	05	50	19.2	36.68N	27.16E	14	4.1L			
NEIC	Poor solution.											
ISC	**VIII**	**25**	**05**	**55**	**22.9**±.65	**36.63N**±.055	**27.09E**±.060	**5**	3.5b		**21**	**1-77**
ISK	VIII	25	05	55	20.1	36.53N	26.80E	5	3.6D		¶**97viii3653**	
ATH	VIII	25	05	55	27.3	36.38N	27.20E	24	4.0L			
ISC	**VIII**	**25**	**06**	**21**	**45**±1.3	**36.52N**±.089	**27.1E**±.12	**21**±20			**7**	**1-3**
ATH	VIII	25	06	21	46.0	36.47N	27.02E	5	3.7D		¶**97viii3656**	
ISC	**VIII**	**25**	**15**	**53**	**56**±1.0	**36.55N**±.098	**27.1E**±.13	**40**			**6**	**1-2**
ATH	VIII	25	15	53	56.6	36.50N	27.05E	40			¶**97viii3708**	
ISC	**VIII**	**26**	**04**	**04**	**16**±1.1	**36.3N**±.10	**27.3E**±.11	**10**			**5**	**1-2**
ATH	VIII	26	04	04	16.8	36.26N	27.26E	10	3.5D		¶**97viii3785**	
ISC	**VIII**	**27**	**03**	**50**	**26.4**±.79	**36.50N**±.028	**27.12E**±.027	**32**±7.6	**4.4b,3.7s**		**153**	**1-90**
ATH	VIII	27	03	50	25.3	36.61N	27.08E	5	4.8L		¶**97viii3935**	
THE	VIII	27	03	50	25.5	36.6N	27.1E	4	4.8L			
NEIC	VIII	27	03	50	26.0	36.48N	27.16E	33	4.4b			
MOS	VIII	27	03	50	27.5	36.5N	27.3E	33	5.0b			
EIDC	VIII	27	03	50	42.4	36.7N	27.0E	161	3.9b,3.8s			
ATH	**VIII**	**27**	**03**	**54**	**56.6**	**36.79N**	**27.59E**	**27**	**3.4D**		¶**97viii3936**	
ISC	**VIII**	**27**	**06**	**56**	**37.7**±.44	**36.60N**±.042	**27.12E**±.037	**35**±6.1	**4.0b**		**86**	**1-117**
NEIC	VIII	27	06	56	35.5	36.26N	27.50E	33	4.0b		¶**97viii3949**	
MOS	VIII	27	06	56	35.6	36.2N	27.5E	33	5.3b			
THE	VIII	27	06	56	36.2	36.6N	27.1E	11	4.8L			
ATH	VIII	27	06	56	38.0	36.53N	27.15E	37	4.9L			
EIDC	VIII	27	06	56	56.4	37.3N	27.5E	159	3.7b			
NEIC	Less reliable solution.											
ISC	**VIII**	**28**	**00**	**39**	**25.2**±.63	**36.65N**±.046	**27.16E**±.060	**5**			**22**	**1-5**
THE	VIII	28	00	39	26.3	36.6N	27.2E	5	3.8L		¶**97viii4062**	
ATH	VIII	28	00	39	26.5	36.53N	27.17E	5	3.8D			
ISC	**VIII**	**28**	**21**	**07**	**45.5**±.95	**36.58N**±.087	**27.23E**±.099	**15**			**7**	**1-3**
ISK	VIII	28	21	07	43.3	36.59N	27.19E	33	3.3D		¶**97viii4183**	
ATH	VIII	28	21	07	46.7	36.57N	27.16E	15	3.6D			
ISC	**VIII**	**28**	**22**	**02**	**49**±1.3	**36.6N**±.12	**27.2E**±.12	**5**			**4**	**1-1**
ATH	VIII	28	22	02	50.6	36.55N	27.18E	5			¶**97viii4188**	
ISC	Poorly determined											
ATH	**VIII**	**28**	**23**	**03**	**53.6**	**36.54N**	**27.27E**	**40**			¶**97viii4196**	
ISC	**VIII**	**29**	**00**	**25**	**42.5**±.93	**36.74N**±.077	**27.15E**±.093	**10**			**7**	**1-2**
ATH	VIII	29	00	25	43.5	36.73N	27.17E	10	3.5D		¶**97viii4208**	
ISK	VIII	29	00	25	47.0	37.20N	27.35E	10	3.1D			
ISC	**VIII**	**29**	**01**	**52**	**56.8**±.84	**36.54N**±.070	**27.18E**±.085	**10**			**13**	**1-6**
ISK	VIII	29	01	52	55.5	36.60N	27.20E	33	3.5D		¶**97viii4217**	
ATH	VIII	29	01	52	57.0	36.61N	27.20E	10	3.7D			
ISC	**VIII**	**29**	**02**	**52**	**49**±11	**35.9N**±.77	**27.9E**±.49	**33**			**5**	**1-3**
ISK	VIII	29	02	52	40.8	35.62N	27.78E	33	3.4D		¶**97viii4225**	
ISC	**VIII**	**29**	**09**	**53**	**22**±1.3	**36.6N**±.14	**27.3E**±.14	**40**			**4**	**1-1**
ATH	VIII	29	09	53	22.0	36.55N	27.23E	40	3.4D		¶**97viii4271**	
ISC	Poorly determined											
ISC	**VIII**	**29**	**10**	**38**	**34**±1.2	**36.5N**±.11	**27.3E**±.12	**10**			**4**	**1-2**
ATH	VIII	29	10	38	34.5	36.44N	27.32E	10	3.4D		¶**97viii4277**	
ISC	Poorly determined											
ISC	**VIII**	**29**	**12**	**57**	**20**±2.6	**35.8N**±.13	**27.9E**±.13	**1**±18			**9**	**0-3**
ISK	VIII	29	12	57	17.5	35.69N	27.68E	9	3.4D		¶**97viii4307**	
ATH	VIII	29	12	57	19.8	35.73N	28.09E	10	3.8D			
ISC	**VIII**	**29**	**14**	**36**	**36.4**±.89	**36.51N**±.080	**27.33E**±.086	**5**			**10**	**1-4**
ATH	VIII	29	14	36	38.0	36.48N	27.20E	5	4.1D		¶**97viii4325**	
ISC	**VIII**	**30**	**01**	**03**	**31.0**±.86	**36.44N**±.066	**27.17E**±.097	**75**±20			**17**	**1-9**
ATH	VIII	30	01	03	29.7	36.60N	27.19E	4	3.9D		¶**97viii4402**	
ISK	VIII	30	01	03	30.2	36.65N	27.27E	33	3.4D			
ISC	**VIII**	**30**	**02**	**38**	**36.9**±.94	**36.57N**±.085	**27.10E**±.096	**10**			**7**	**1-3**
ATH	VIII	30	02	38	36.5	36.69N	27.19E	10	3.5D		¶**97viii4411**	
ISK	VIII	30	02	38	37.6	36.67N	27.25E	33	3.3D			
ISC	**VIII**	**30**	**05**	**48**	**50**±1.1	**36.5N**±.10	**27.0E**±.14	**10**			**5**	**1-2**
ATH	VIII	30	05	48	51.3	36.47N	26.98E	10	3.4D		¶**97viii4433**	
ATH	**VIII**	**31**	**07**	**15**	**07.7**	**36.47N**	**26.81E**	**15**	**3.4D**		¶**97viii4606**	
ISC	**IX**	**06**	**01**	**08**	**29.2**±.91	**36.63N**±.084	**27.17E**±.095	**5**			**7**	**1-2**
ATH	IX	06	01	08	29.9	36.67N	27.21E	5	3.5D		¶**97ix0831**	
ISC	**IX**	**08**	**01**	**17**	**28.2**±.42	**35.27N**±.036	**27.43E**±.035	**59**±5.7	**4.0b,3.2s**		**122**	**0-80**
THE	IX	08	01	17	25.5	35.2N	27.4E	0	3.6L		¶**97ix1149**	
NEIC	IX	08	01	17	26.1	35.22N	27.29E	33	4.0b			
ATH	IX	08	01	17	27.1	35.39N	27.40E	5	4.3L			
EIDC	IX	08	01	17	30.8	35.4N	27.3E	45	3.8b,4.0L			
ISC	**IX**	**08**	**01**	**39**	**37**±3.2	**35.4N**±.17	**27.4E**±.11	**4**±20			**10**	**0-4**
ATH	IX	08	01	39	37.9	35.43N	27.41E	4	3.7D		¶**97ix1152**	
ISC	**IX**	**09**	**17**	**35**	**44**±3.8	**36.0N**±.13	**26.9E**±.40	**121**±25			**11**	**1-9**
ATH	IX	09	17	35	53.8	35.67N	27.74E	10			¶**97ix1417**	
ISC	**IX**	**10**	**21**	**37**	**15.2**±.76	**36.65N**±.065	**27.22E**±.074	**5**			**11**	**1-3**
ATH	IX	10	21	37	18.1	36.51N	27.17E	5	3.7L		¶**97ix1581**	
ISC	**IX**	**11**	**00**	**15**	**01.1**±.81	**36.92N**±.074	**28.90E**±.082	**10**			**9**	**1-2**
ATH	IX	11	00	15	02.7	35.51N	28.87E	10			¶**97ix1598**	
ISC	**IX**	**11**	**00**	**29**	**08**±2.7	**35.3N**±.27	**27.7E**±.12	**5**			**5**	**0-2**
ATH	IX	11	00	29	08.8	35.26N	27.66E	5			¶**97ix1601**	
ISC	**IX**	**11**	**04**	**46**	**16.7**±.74	**36.31N**±.069	**27.27E**±.077	**5**			**9**	**1-3**
ATH	IX	11	04	46	17.2	36.43N	27.33E	5	3.8D		¶**97ix1632**	
ISC	**IX**	**16**	**20**	**45**	**22.6**±.82	**36.69N**±.059	**27.30E**±.080	**4**			**10**	**1-4**
ATH	IX	16	20	45	23.8	36.66N	27.24E	4	3.7D		¶**97ix2427**	
ISC	**IX**	**16**	**22**	**32**	**43**±3.9	**36.6N**±.36	**28.7E**±.21	**33**			**5**	**1-2**
											¶**97ix2435**	
ISC	**IX**	**21**	**16**	**25**	**24.9**±.55	**36.66N**±.046	**27.18E**±.046	**32**±7.0	**4.0b,3.1s**		**67**	**1-65**
ISK	IX	21	16	25	05.2	34.86N	25.81E	10	3.7D		¶**97ix3125**	
EIDC	IX	21	16	25	22.5	36.7N	27.0E	0	4.1b,3.3s			
ATH	IX	21	16	25	24.4	36.72N	27.37E	35	4.1L			
NEIC	IX	21	16	25	25.3	36.71N	27.14E	33	3.9b,3.1s			
NEIC	Less reliable solution.											
ISC	**IX**	**21**	**21**	**27**	**01.5**±.66	**36.66N**±.062	**27.21E**±.061	**5**			**16**	**1-5**
ATH	IX	21	21	27	02.2	36.72N	27.32E	5	3.8D		¶**97ix3164**	
ISC	**IX**	**22**	**13**	**21**	**03**±1.1	**36.6N**±.10	**27.3E**±.13	**35**			**5**	**1-2**
ATH	IX	22	13	21	02.9	36.56N	27.30E	35	3.6D		¶**97ix3286**	
ISC	**IX**	**24**	**15**	**10**	**59.9**±.87	**36.72N**±.037	**27.27E**±.043	**14**±6.7	**3.9b**		**49**	**1-79**
NEIC	IX	24	15	10	58.0	36.61N	27.25E	10	3.9b		¶**97ix3595**	
EIDC	IX	24	15	10	58.8	36.7N	27.1E	0	3.9b,4.3L			
ISK	IX	24	15	10	59.0	36.83N	27.12E	33	3.8D			
ATH	IX	24	15	11	00.4	36.76N	27.34E	6	4.1D			
THE	IX	24	15	11	00.5	36.7N	27.3E	15				
NEIC	Less reliable solution.											
ISC	**IX**	**25**	**11**	**13**	**52.2**±.21	**36.31N**±.030	**26.60E**±.028	**162**±3.1	**4.2b**		**178**	**1-80**
NEIC	IX	25	11	13	51.6	36.18N	26.50E	161	4.5b		¶**97ix3731**	
ATH	IX	25	11	13	54.5	36.43N	26.57E	138	4.2L			
THE	IX	25	11	13	55.6	36.6N	26.5E	10	4.4L			
ISK	IX	25	11	13	55.9	36.47N	26.65E	10	3.8D			
PDG	IX	25	11	13	56.7	35.8N	24.9E	40	4.5L			
EIDC	IX	25	11	13	57.7	36.5N	26.6E	186	3.8b			
ISC	**IX**	**27**	**15**	**20**	**55**±2.4	**35.4N**±.26	**27.2E**±.17	**26**±11			**7**	**0-4**
ATH	IX	27	15	20	56.1	35.57N	27.15E	17	3.5D		¶**97ix4386**	
ISC	**IX**	**28**	**05**	**46**	**08**±1.5	**36.66N**±.086	**27.2E**±.20	**10**			**4**	**1-1**
ATH	IX	28	05	46	09.0	36.70N	27.27E	10	3.6D		¶**97ix4556**	
ISC	Poorly determined											
ISC	**IX**	**30**	**06**	**32**	**32**±1.1	**36.73N**±.066	**27.9E**±.18	**10**			**6**	**1-2**
ATH	IX	30	06	32	32.4	36.75N	27.92E	10	3.6D		¶**97ix5146**	
ISC	**IX**	**30**	**17**	**51**	**01.8**±.87	**37.72N**±.081	**26.9E**±.10	**10**			**8**	**0-3**
ATH	IX	30	17	50	54.7	38.00N	27.30E	10	3.6D		¶**97ix5286**	
ISK	IX	30	17	51	01.1	37.75N	27.02E	10	3.0D			
ISC	**X**	**02**	**20**	**49**	**13**±1.5	**36.69N**±.089	**27.2E**±.16	**5**			**4**	**1-1**
ATH	X	02	20	49	14.4	36.69N	27.23E	5	3.5D		¶**97x0344**	
ISC	Poorly determined											
ISC	**X**	**06**	**02**	**56**	**55**±1.5	**36.93N**±.061	**28.55E**±.073	**7**±13			**16**	**0-8**
ISK	X	06	02	56	53.9	36.91N	28.47E	7	3.4D		¶**97x0973**	
ATH	X	06	02	57	02.8	36.93N	27.85E	5	3.7D			
ISC	**X**	**06**	**15**	**12**	**02**±4.6	**37.0N**±.32	**28.2E**±.31	**18**±19			**6**	**0-3**
ISK	X	06	15	12	01.1	36.98N	28.14E	10	2.8D		¶**97x1066**	
ISC	Poorly determined											
ISC	**X**	**09**	**18**	**26**	**09.1**±.64	**36.34N**±.055	**27.05E**±.059	**7**			**16**	**1-5**
ATH	X	09	18	26	10.8	36.29N	27.08E	7	3.8L		¶**97x1619**	
ISC	**X**	**11**	**07**	**14**	**23**±1.4	**37.87N**±.082	**26.9E**±.16	**5**			**6**	**0-2**
ATH	X	11	07	14	23.4	37.88N	27.03E	5	3.5D		¶**97x1860**	
ISC	**X**	**13**	**01**	**06**	**37.5**±.63	**36.63N**±.053	**25.65E**±.068	**5**			**13**	**0-3**
ATH	X	13	01	06	38.8	36.61N	25.74E	5	3.8L		¶**97x2140**	
ISC	**X**	**15**	**03**	**18**	**51.3**±.95	**36.64N**±.094	**26.34E**±.099	**15**			**9**	**1-4**
ATH	X	15	03	18	52.1	36.66N	26.44E	15	3.7L		¶**97x2554**	
ISC	**X**	**17**	**13**	**00**	**26**±3.9	**35.4N**±.35	**27.2E**±.24	**53**±33			**5**	**0-2**
ATH	X	17	13	00	26.5	35.43N	27.25E	47	3.7D		¶**97x2989**	
ISC	Poorly determined											
ISC	**X**	**17**	**14**	**24**	**03.7**±.93	**35.14N**±.083	**27.42E**±.077	**73**±7.4	**3.9b**		**31**	**0-66**
EIDC	X	17	14	23	56.7	35.1N	27.5E	0	4.1b		¶**97x3003**	
NEIC	X	17	14	23	59.3	35.07N	27.53E	33	4.4b			
ATH	X	17	14	24	06.1	35.20N	27.41E	42	4.0D			
ISC	**X**	**17**	**19**	**31**	**18**±1.3	**36.14N**±.082	**25.7E**±.14	**5**			**5**	**1-2**
ATH	X	17	19	31	18.9	36.15N	25.83E	5	3.6D		¶**97x3049**	
ISC	**X**	**17**	**21**	**12**	**23**±3.0	**36.17N**±.092	**25.9E**±.15	**18**±32			**8**	**1-3**
ATH	X	17	21	12	23.7	36.16N	25.96E	25	3.8L		¶**97x3060**	
EIDC	**X**	**18**	**05**	**37**	**07.9**	**36.4N**	**27.4E**	**0**	**3.9b**		¶**97x3106**	
ISC	**X**	**18**	**07**	**42**	**36.7**±.78	**36.50N**±.069	**27.22E**±.088	**5**			**9**	**1-3**
ATH	X	18	07	42	37.7	36.48N	27.26E	5	4.1L		¶**97x3119**	
ISK	**X**	**19**	**14**	**19**	**28.2**	**36.81N**	**28.21E**	**10**	**3.2D**		¶**97x3357**	
ISC	**X**	**22**	**19**	**48**	**42**±1.3	**36.3N**±.17	**27.5E**±.25	**109**			**4**	**1-2**
ATH	X	22	19	48	41.8	36.28N	27.52E	109			¶**97x3876**	
ISC	Poorly determined											
ISC	**X**	**23**	**00**	**19**	**42.4**±.98	**36.59N**±.074	**27.2E**±.12	**5**			**6**	**1-2**
ATH	X	23	00	19	43.7	36.65N	27.21E	5	3.7D		¶**97x3902**	
ISC	**X**	**23**	**05**	**34**	**44**±2.7	**36.8N**±.28	**28.9E**±.23	**22**±39			**5**	**1-2**
ISK	X	23	05	34	43.2	36.82N	28.84E	10	3.2D		¶**97x3930**	
ISC	Poorly determined											
ISC	**X**	**23**	**17**	**22**	**49.7**±.37	**35.18N**±.039	**27.82E**±.046	**10**	**3.9b**		**56**	**1-41**
ISK	X	23	17	22	43.6	34.89N	27.35E	10	3.8D		¶**97x4034**	
NEIC	X	23	17	22	48.8	35.31N	27.84E	10				
EIDC	X	23	17	22	49.2	35.4N	27.8E	0	4.0b,4.2L			
ATH	X	23	17	22	54.1	35.65N	27.74E	5	4.1D			
THE	X	23	17	22	59.7	35.6N	27.3E	9				
ISC	**X**	**24**	**18**	**19**	**39.8**±.31	**36.46N**±.051	**26.57E**±.047	**155**±5.9	4.2b		**47**	**1-25**
ATH	X	24	18	19	41.5	36.53N	26.53E	135	3.8L		¶**97x4209**	
ISC	**X**	**26**	**16**	**43**	**51**±1.4	**35.8N**±.14	**27.34E**±.082	**5**			**13**	**2-5**
ISK	X	26	16	43	52.0	35.80N	27.50E	5	3.5D		¶**97x4499**	
ATH	X	26	16	43	52.5	35.82N	27.44E	25	4.0D			
ISC	**X**	**30**	**03**	**36**	**07**±3.2	**35.2N**±.22	**27.0E**±.12	**21**±20			**10**	**0-5**
ATH	X	30	03	36	05.7	35.03N	27.13E	22	4.0D		¶**97x4984**	
ISC	**X**	**31**	**16**	**58**	**25**±1.0	**37.74N**±.086	**26.9E**±.14	**10**			**5**	**0-2**
ATH	X	31	16	58	26.0	37.69N	26.89E	10	3.6D		¶**97x5207**	
ISC	**XI**	**03**	**06**	**38**	**15.8**±.99	**37.31N**±.078	**26.84E**±.080	**10**			**11**	**0-4**
ISK	XI	03	06	38	11.4	37.17N	26.57E	10	3.3D		¶**97xi0423**	
ATH	XI	03	06	38	14.2	37.11N	27.00E	5	3.8D			
ISC	**XI**	**03**	**06**	**40**	**13**±4.1	**37.2N**±.15	**26.8E**±.16	**4**±33			**5**	**0-2**
ATH	XI	03	06	40	14.9	37.17N	26.80E	10	3.7D		¶**97xi0424**	
ISC	Poorly determined											
ISC	**XI**	**04**	**04**	**04**	**24**±2.4	**36.5N**±.17	**26.7E**±.14	**28**±44			**7**	**1-2**
ATH	XI	04	04	04	24.8	36.49N	26.75E	24	3.9D		¶**97xi0572**	
ATH	**XI**	**06**	**16**	**51**	**59.8**	**36.72N**	**25.76E**	**10**			¶**97xi1003**	
ATH	**XI**	**06**	**20**	**09**	**35.2**	**35.30N**	**27.01E**	**10**			¶**97xi1025**	
ISC	**XI**	**06**	**22**	**04**	**15**±1.6	**36.6N**±.11	**26.4E**±.21	**10**			**4**	**1-2**
ATH	XI	06	22	04	15.8	36.62N	26.48E	10			¶**97xi1040**	
ISC	Poorly determined											
ISC	**XI**	**07**	**04**	**28**	**34**±3.8	**35.3N**±.18	**27.17E**±.097	**27**±33	**3.2b**		**14**	**1-27**
EIDC	XI	07	04	28	31.5	35.2N	26.9E	0	3.5b,3.8L		¶**97xi1072**	
ATH	XI	07	04	28	34.6	35.36N	27.21E	33	4.1D			
NEIC	XI	07	04	28	34.6	35.33N	27.14E	33				
NEIC	Less reliable solution.											
ISC	**XI**	**09**	**17**	**42**	**47.0**±.67	**35.37N**±.063	**27.71E**±.067	**5**	3.7b		**24**	**1-31**
ISK	XI	09	17	42	45.0	35.26N	27.85E	33	3.6D		¶**97xi1483**	
EIDC	XI	09	17	42	48.5	35.3N	27.5E	0	3.5L,3.9b			
NEIC	XI	09	17	42	49.8	35.39N	27.78E	33				
ATH	XI	09	17	42	55.1	35.89N	26.96E	5	4.0D			
ISC	**XI**	**10**	**11**	**03**	**30**±2.7	**35.2N**±.13	**27.75E**±.079	**6**±17			**14**	**1-6**
ISK	XI	10	11	03	29.0	35.03N	27.80E	5	3.7D		¶**97xi1605**	
NEIC	XI	10	11	03	31.1	35.21N	27.80E	10				
ATH	XI	10	11	03	39.2	35.74N	27.23E	5	4.0D			
NEIC	Less reliable solution.											
ISC	**XI**	**10**	**12**	**02**	**54**±2.4	**35.34N**±.047	**27.76E**±.042	**2**±17	**3.9b**		**54**	**1-80**
ISK	XI	10	12	02	48.1	34.80N	27.14E	10	4.1D		¶**97xi1609**	
NEIC	XI	10	12	02	55.2	35.36N	27.78E	10	4.2b			

Agency		Origin Time			φ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
EIDC	XI	10	12 02	55.7	35.4N	27.7E	0	3.9b,4.2L		
ATH	XI	10	12 02	56.0	35.37N	27.72E	5	4.3L		
ISC	**XI**	**10**	**20 50**	**36**±6.3	**35.2N**±.29	**27.6E**±.26	**13**±25		**7**	**0-3**
ATH	XI	10	20 50	36.2	35.20N	27.70E	5	4.0D		¶97xi1670
NEIC	XI	10	20 50	36.9	35.24N	27.66E	10			
NEIC	Less reliable solution.									
ISC	**XI**	**11**	**01 33**	**53**±1.3	**35.7N**±.11	**27.1E**±.14	**10**		**4**	**0-2**
NEIC	XI	11	01 33	53.3	35.72N	27.11E	10			¶97xi1706
ATH	XI	11	01 33	55.0	35.61N	27.18E	11			
ISC	Poorly determined									
NEIC	Poor solution.									
ISC	**XI**	**11**	**23 36**	**35**±1.2	**36.9N**±.12	**27.6E**±.12	**21**±39		**6**	**1-2**
NEIC	XI	11	23 36	34.2	36.93N	27.59E	10			¶97xi1894
ATH	XI	11	23 36	34.3	36.97N	27.64E	10	3.5D		
NEIC	Less reliable solution.									
ISC	**XI**	**11**	**23 49**	**07.5**±.86	**36.83N**±.068	**27.50E**±.090	**10**		**7**	**1-3**
NEIC	XI	11	23 49	07.4	36.90N	27.58E	10			¶97xi1897
ATH	XI	11	23 49	10.1	36.71N	27.42E	5	3.6D		
NEIC	Less reliable solution.									
ISC	**XI**	**12**	**00 26**	**24.5**±.73	**36.85N**±.054	**27.52E**±.079	**10**		**11**	**1-3**
NEIC	XI	12	00 26	24.5	36.91N	27.57E	10			¶97xi1906
ISK	XI	12	00 26	24.7	37.05N	27.56E	10	3.2D		
ATH	XI	12	00 26	26.9	36.73N	27.42E	5	3.6D		
NEIC	Single network solution.									
ISC	**XI**	**12**	**02 45**	**30.5**±.37	**36.20N**±.052	**27.59E**±.049	**104**±5.7	**3.8b**	**43**	**0-46**
NEIC	XI	12	02 45	30.3	36.23N	27.62E	102	3.8b		¶97xi1922
EIDC	XI	12	02 45	31.1	36.3N	27.6E	74	3.6b,3.8L		
ISK	XI	12	02 45	31.6	36.33N	27.50E	10	3.4D		
ATH	XI	12	02 45	34.0	36.32N	27.38E	35	3.8D		
ISC	**XI**	**12**	**22 57**	**53.3**±.67	**36.86N**±.055	**27.43E**±.065	**9**		**17**	**1-5**
ISK	XI	12	22 57	48.2	36.57N	27.04E	9	3.6D		¶97xi2045
ATH	XI	12	22 57	53.4	36.88N	27.59E	5	3.9D		
ISK	**XI**	**14**	**00 46**	**41.5**	**36.13N**	**28.79E**	**33**	**3.3b**		**¶97xi2213**
ISC	**XI**	**14**	**05 57**	**01**±2.3	**36.7N**±.22	**28.9E**±.15	**21**±27		**8**	**1-4**
NEIC	XI	14	05 56	58.6	36.64N	28.91E	10			¶97xi2249
ISK	XI	14	05 57	01.8	36.97N	28.97E	15	3.2D		
NEIC	Poor solution.									
ISC	**XI**	**15**	**05 57**	**00**±4.1	**36.8N**±.28	**28.7E**±.57	**162**		**4**	**1-3**
ATH	XI	15	05 57	00.6	36.79N	28.55E	162			¶97xi2426
ISC	Poorly determined									
ISC	**XI**	**17**	**18 28**	**43.1**±.89	**35.27N**±.042	**27.75E**±.035	**16**±8.0	**4.2b,3.3s**	**92**	**1-80**
NEIC	XI	17	18 28	44.4	35.22N	27.75E	33	4.1b		¶97xi2845
ATH	XI	17	18 28	45.8	35.54N	27.60E	5	4.2L		
EIDC	XI	17	18 28	54.5	35.6N	27.6E	79	3.8b,3.5s		
ISC	**XI**	**18**	**02 25**	**22**±1.2	**36.65N**±.092	**26.5E**±.13	**10**		**5**	**1-2**
ATH	XI	18	02 25	23.1	36.69N	26.51E	10	3.7D		¶97xi2900
ISC	**XI**	**19**	**02 14**	**09**±8.4	**37.4N**±.40	**27.0E**±.66	**10**		**6**	**1-3**
ISK	XI	19	02 14	13.8	37.70N	27.58E	10	3.1D		¶97xi3112
NEIC	XI	19	02 14	14.1	37.68N	27.57E	10			
NEIC	Poor solution.									
ATH	**XI**	**22**	**01 41**	**38.9**	**36.40N**	**26.90E**	**10**	**3.7D**		**¶97xi3776**
ISC	**XI**	**22**	**21 49**	**27**±4.9	**37.1N**±.36	**25.3E**±.25	**10**		**11**	**2-10**
ATH	XI	22	21 49	34.5	36.70N	25.09E	10	3.6D		¶97xi3967
ATH	**XI**	**23**	**02 25**	**38.5**	**36.33N**	**26.44E**	**35**	**3.6D**		**¶97xi4007**
ATH	**XI**	**24**	**22 58**	**10.9**	**36.76N**	**27.57E**	**114**			**¶97xi4401**
ATH	**XI**	**25**	**17 45**	**08.9**	**36.14N**	**25.78E**	**10**			**¶97xi4555**
ISC	**XI**	**26**	**01 49**	**55**±1.0	**36.6N**±.10	**27.2E**±.13	**39**		**5**	**1-1**
ATH	XI	26	01 49	55.3	36.54N	27.20E	39	3.6D		¶97xi4609
ATH	**XI**	**26**	**03 32**	**39.0**	**36.53N**	**27.22E**	**85**			**¶97xi4622**
ISC	**XII**	**08**	**09 24**	**54.2**±.44	**36.44N**±.060	**26.49E**±.045	**146**±7.3	**3.7b**	**43**	**1-32**
ATH	XII	08	09 24	55.8	36.54N	26.56E	135	3.9L		¶97xii1901
EIDC	XII	08	09 24	57.1	36.5N	26.4E	141±133.2	3.5b		
EIDC	Origin time error = 12.73Error ellipse is semi−major=55.5km semi−minor=25.2km azimuth=98									
ISC	**XII**	**11**	**09 30**	**41**±7.6	**36.3N**±.56	**28.7E**±.29	**10**		**4**	**1-2**
NEIC	XII	11	09 30	40.1	36.22N	28.72E	10			¶97xii2534
ISK	XII	11	09 30	43.1	36.46N	28.80E	12	3.2D		
ISC	Poorly determined									
NEIC	Poor solution.									
ISC	**XII**	**17**	**19 21**	**40.0**±.33	**36.25N**±.055	**26.74E**±.049	**139**±8.0		**43**	**1-20**
NEIC	XII	17	19 21	39.4	36.17N	26.69E	131	3.9b		¶97xii3651
ATH	XII	17	19 21	42.6	36.31N	26.80E	110			
JSO	XII	17	19 23	01.1	32.74N	32.76E	5	4.6L		
ATH	**XII**	**18**	**15 07**	**58.4**	**36.74N**	**27.34E**	**10**	**3.9D**		**¶97xii3786**
ISC	**XII**	**22**	**08 23**	**27**±1.2	**36.8N**±.10	**26.8E**±.14	**10**		**4**	**1-1**
ATH	XII	22	08 23	28.3	36.76N	26.76E	10	3.7D		¶97xii4385
ISC	Poorly determined									
ISC	**XII**	**22**	**08 41**	**37**±1.0	**36.82N**±.074	**26.8E**±.12	**5**		**6**	**1-2**
ATH	XII	22	08 41	38.4	36.76N	26.77E	5	3.8D		¶97xii4386
ATH	**XII**	**22**	**08 43**	**20.2**	**36.79N**	**26.70E**	**10**	**3.8D**		**¶97xii4387**
ATH	**XII**	**23**	**19 11**	**01.6**	**36.63N**	**27.32E**	**10**	**3.7D**		**¶97xii4645**
ISC	**XII**	**24**	**22 15**	**30.6**±.77	**35.96N**±.083	**27.20E**±.079	**31**		**13**	**0-5**
ATH	XII	24	22 15	28.7	35.96N	27.46E	31	3.9D		¶97xii4834
ISC	**XII**	**25**	**17 59**	**05.3**±.83	**36.09N**±.071	**27.06E**±.088	**5**		**7**	**1-2**
ATH	XII	25	17 59	06.4	36.07N	27.11E	5	3.8D		¶97xii4968
ISC	**XII**	**25**	**22 43**	**48.4**±.57	**35.98N**±.061	**27.61E**±.054	**5**		**20**	**0-6**
ATH	XII	25	22 43	48.6	36.12N	27.59E	5	4.1D		¶97xii4999
ISK	XII	25	22 43	54.8	36.31N	28.37E	33	3.3D		
NEIC	XII	25	22 43	56.9	35.98N	28.17E	33			
NEIC	M_L3.4(CSS), Less reliable solution.									
ISC	**XII**	**26**	**23 59**	**10.9**±.68	**36.90N**±.065	**27.80E**±.077	**31**		**12**	**0-5**
ATH	XII	26	23 59	11.9	36.84N	27.71E	31	3.9D		¶97xii5209
ISC	**XII**	**27**	**02 50**	**06**±1.1	**35.6N**±.11	**27.03E**±.097	**5**		**5**	**0-2**
ATH	XII	27	02 50	08.5	35.64N	27.21E	5	3.8D		¶97xii5232
ISC	**XII**	**27**	**03 24**	**29.8**±.42	**36.02N**±.047	**28.69E**±.048	**40**		**26**	**0-8**
ATH	XII	27	03 24	31.4	36.22N	28.64E	40	3.8D		¶97xii5237
ISC	**XII**	**27**	**06 33**	**29**±1.0	**35.6N**±.10	**27.2E**±.10	**5**		**6**	**0-2**
ATH	XII	27	06 33	30.5	35.58N	27.22E	5	3.6D		¶97xii5264
ISC	**XII**	**27**	**18 43**	**02.2**±.64	**36.69N**±.054	**27.10E**±.069	**5**		**15**	**1-5**
ATH	XII	27	18 43	03.7	36.67N	27.25E	5	3.9D		¶97xii5332
ISC	**XII**	**27**	**18 46**	**26.4**±.85	**36.68N**±.081	**27.06E**±.099	**39**		**10**	**1-3**
ATH	XII	27	18 46	27.0	36.74N	27.13E	39	3.9D		¶97xii5334
ISC	**XII**	**27**	**19 10**	**33**±1.3	**36.67N**±.041	**27.15E**±.051	**3**±9.7	**3.8b**	**47**	**1-77**
ATH	XII	27	19 10	34.5	36.67N	27.17E	5	3.8D		¶97xii5335
NEIC	XII	27	19 10	36.4	36.66N	27.23E	33	4.0b		
ISK	XII	27	19 10	38.3	37.04N	27.42E	8	3.6D		
EIDC	XII	27	19 10	45.5±1.90	36.6N	27.0E	98±15.8	3.6b		
EIDC	Error ellipse is semi−major=34.5km semi−minor=18.6km azimuth=108									
ISC	**XII**	**27**	**19 17**	**52.8**±.57	**36.56N**±.026	**27.16E**±.025	**17**±5.1	**4.3b,4.1s**	**177**	**1-117**
EIDC	XII	27	19 17	51.8±.59	36.6N	27.1E	0	4.3b,4.0s		¶97xii5337
THE	XII	27	19 17	52.9	36.6N	27.2E	6			
ATH	XII	27	19 17	53.4	36.66N	27.14E	9	4.3L		
BJI	XII	27	19 17	54.0	37.19N	27.27E	12	4.7b		
NEIC	XII	27	19 17	54.2	36.52N	27.22E	33	4.4b		
EIDC	Error ellipse is semi−major=16.0km semi−minor=13.7km azimuth=108									
ISC	**XII**	**27**	**19 40**	**26.8**±.76	**36.74N**±.074	**27.21E**±.095	**36**		**9**	**1-2**
ATH	XII	27	19 40	26.7	36.76N	27.17E	36	3.7D		¶97xii5339
ISC	**XII**	**27**	**19 45**	**21.3**±.30	**36.53N**±.036	**27.26E**±.043	**33**	**4.0b**	**56**	**1-57**
ISK	XII	27	19 44	57.9	35.24N	26.45E	6	3.8D		¶97xii5340
EIDC	XII	27	19 45	19.5±.99	36.5N	27.1E	0	4.1b,3.9L		
ATH	XII	27	19 45	19.6	36.69N	27.16E	5	3.9L		
NEIC	XII	27	19 45	20.7	36.49N	27.23E	33	4.1b		
EIDC	Error ellipse is semi−major=26.3km semi−minor=17.4km azimuth=98									
ISC	**XII**	**28**	**01 06**	**36**±1.2	**36.72N**±.082	**27.8E**±.15	**10**		**4**	**1-1**
ATH	XII	28	01 06	37.8	36.69N	27.77E	10	2.7D		¶97xii5373
ISC	Poorly determined									
ISC	**XII**	**28**	**04 35**	**58.4**±.92	**36.58N**±.087	**27.1E**±.11	**37**		**8**	**1-3**
ATH	XII	28	04 35	57.9	36.64N	27.18E	37	3.8D		¶97xii5397
ISC	**XII**	**31**	**04 16**	**10**±1.2	**36.4N**±.12	**28.4E**±.13	**44**±32		**6**	**0-3**
ATH	XII	31	04 16	09.6	36.46N	28.43E	39	3.4D		¶97xii5835
ISC	**XII**	**31**	**17 40**	**25.8**±.97	**36.43N**±.095	**27.11E**±.087	**5**		**6**	**1-3**
ATH	XII	31	17 40	27.6	36.43N	27.09E	5	3.7D		¶97xii5934

(370) Crete.

ISC	**VII**	**02**	**10 51**	**41**±3.8	**34.9N**±.11	**25.31E**±.074	**15**±22	**3.7b**	**32**	**0-118**
ATH	VII	02	10 51	40.0	34.92N	25.34E	5	3.9D		¶97vii0227
THE	VII	02	10 51	42.7	34.8N	25.4E	30	3.7L		
EIDC	VII	02	10 51	42.8	35.1N	25.2E	15	3.6b,4.1L		
NEIC	VII	02	10 51	43.4	35.19N	25.27E	33	3.7b		
NEIC	Less reliable solution.									
ATH	**VII**	**03**	**00 23**	**13.4**	**35.22N**	**25.30E**	**10**	**3.8D**		**¶97vii0327**
ATH	**VII**	**05**	**21 27**	**01.1**	**35.76N**	**25.90E**	**10**	**3.9D**		**¶97vii0794**
ISC	**VII**	**06**	**02 47**	**03**±1.4	**35.5N**±.30	**26.3E**±.18	**10**		**4**	**1-2**
ATH	VII	06	02 47	03.1	35.71N	26.20E	10	3.9D		¶97vii0829
ISC	Poorly determined									
ATH	**VII**	**09**	**09 41**	**16.6**	**35.97N**	**26.23E**	**10**			**¶97vii1313**
ISC	**VII**	**10**	**23 56**	**45.6**±.46	**35.74N**±.038	**26.86E**±.041	**47**±6.5	**3.9b**	**85**	**1-81**
ATH	VII	10	23 56	43.2	35.89N	26.88E	2	3.8L		¶97vii1593
THE	VII	10	23 56	43.8	35.8N	26.8E	1	3.2L		
NEIC	VII	10	23 56	45.4	35.76N	26.97E	33	3.8b		
EIDC	VII	10	23 57	00.0	36.0N	26.5E	156	3.6b		
ISC	**VII**	**11**	**02 59**	**12.8**±.62	**34.91N**±.058	**24.49E**±.052	**64**±12	**3.4b**	**55**	**1-30**
EIDC	VII	11	02 59	06.8	35.2N	26.3E	0	3.7b,4.1L		¶97vii1619
NEIC	VII	11	02 59	15.9	35.15N	24.95E	70			
ATH	VII	11	02 59	19.2	35.40N	24.52E	39	3.7L		
ISC	**VII**	**15**	**10 11**	**46**±2.7	**34.2N**±.27	**26.4E**±.12	**84**±34		**9**	**1-6**
ATH	VII	15	10 11	49.5	34.43N	26.43E	39	4.0D		¶97vii2289
ATH	**VII**	**15**	**20 43**	**41.9**	**35.95N**	**24.84E**	**5**	**3.5D**		**¶97vii2348**
ATH	**VII**	**16**	**05 10**	**20.9**	**34.91N**	**26.45E**	**26**	**3.5D**		**¶97vii2390**
ATH	**VII**	**16**	**05 11**	**36.7**	**35.33N**	**26.41E**	**27**	**3.6D**		**¶97vii2391**
ISC	**VII**	**20**	**01 45**	**42**±3.5	**35.3N**±.40	**23.1E**±.27	**112**±14	**3.3b**	**12**	**1-80**
ATH	VII	20	01 45	46.9	36.56N	23.96E	37	3.3D		¶97vii2986
EIDC	VII	20	01 45	53.8	35.9N	23.3E	178	3.2b,3.8L		
ISC	**VII**	**20**	**07 45**	**32**±1.2	**35.7N**±.16	**24.8E**±.12	**34**		**6**	**1-3**
ATH	VII	20	07 45	32.3	35.71N	24.80E	34	3.4D		¶97vii3040
ISC	**VII**	**21**	**03 59**	**01**±3.3	**35.4N**±.48	**26.9E**±.22	**5**		**4**	**0-3**
ATH	VII	21	03 59	02.1	35.42N	26.92E	5	3.5D		¶97vii3187
ISC	Poorly determined									
ATH	**VII**	**23**	**15 15**	**25.7**	**35.24N**	**24.87E**	**40**	**3.6D**		**¶97vii3550**
ATH	**VII**	**26**	**18 10**	**35.8**	**35.17N**	**23.75E**	**5**	**3.4D**		**¶97vii3989**
ISC	**VII**	**29**	**02 14**	**34.2**±.96	**35.5N**±.11	**26.13E**±.075	**5**		**7**	**0-4**
ATH	VII	29	02 14	35.3	35.58N	26.16E	5	3.6D		¶97vii4365
ISC	**VII**	**31**	**07 28**	**05.8**±.97	**35.7N**±.11	**24.9E**±.13	**33**	**3.4b**	**7**	**1-27**
EIDC	VII	31	07 27	52.1	34.6N	26.1E	0	3.8b,4.4L		¶97vii4698
ATH	VII	31	07 28	08.1	35.52N	24.87E	10	3.4D		
ISC	**VIII**	**03**	**22 43**	**52**±1.4	**35.4N**±.28	**26.1E**±.10	**15**		**5**	**0-3**
ATH	VIII	03	22 43	53.6	35.32N	26.05E	15	3.5D		¶97viii0423
ISC	**VIII**	**04**	**20 02**	**46**±2.9	**34.12N**±.071	**25.74E**±.072	**8**±19	**3.9b**	**31**	**1-81**
NEIC	VIII	04	20 02	49.2	34.16N	25.85E	33			¶97viii0541
EIDC	VIII	04	20 02	56.6	34.2N	25.5E	78	3.6b		
ATH	VIII	04	20 02	58.8	34.95N	25.61E	45	3.9D		
ISC	**VIII**	**05**	**13 25**	**52**±1.4	**34.76N**±.098	**24.0E**±.11	**71**±12	**3.6b**	**20**	**2-81**
THE	VIII	05	13 25	47.2	34.4N	23.8E	98	3.8L		¶97viii0672
ATH	VIII	05	13 25	49.7	34.47N	23.87E	35	3.9D		
EIDC	VIII	05	13 25	53.9	34.8N	23.9E	71	3.5b,2.8s		
NEIC	VIII	05	13 25	55.1	34.72N	24.08E	100			
NEIC	Less reliable solution.									
ISC	**VIII**	**07**	**17 55**	**10**±1.5	**34.7N**±.11	**24.7E**±.11	**75**±14	**3.5b**	**15**	**1-67**
ATH	VIII	07	17 55	11.8	35.22N	24.82E	5	3.7D		¶97viii0981
NEIC	VIII	07	17 55	12.0	34.66N	24.82E	100			
EIDC	VIII	07	17 55	15.6	34.7N	24.8E	122	3.3b		
NEIC	Single network solution.									
ATH	**VIII**	**08**	**11 40**	**51.8**	**35.80N**	**26.64E**	**10**	**3.4D**		**¶97viii1110**
ATH	**VIII**	**09**	**00 59**	**28.0**	**35.12N**	**23.46E**	**10**	**3.3D**		**¶97viii1188**
EIDC	**VIII**	**09**	**09 09**	**56.0**	**34.4N**	**25.1E**	**0**	3.8b,4.0L		**17-28**
										¶97viii1230
ATH	**VIII**	**14**	**03 24**	**22.6**	**35.96N**	**23.63E**	**10**	**2.9D**		**¶97viii1996**
ISC	**VIII**	**17**	**01 14**	**40**±1.4	**34.5N**±.11	**26.36E**±.079	**60**±13	**3.6b**	**21**	**1-64**
NEIC	VIII	17	01 14	37.9	34.46N	26.46E	33			¶97viii2448
EIDC	VIII	17	01 14	40.7	34.4N	26.5E	44	3.6b,3.6L		
ATH	VIII	17	01 14	42.0	34.61N	26.35E	76			
NEIC	Less reliable solution.									
ISC	**VIII**	**17**	**11 02**	**29.0**±.22	**34.04N**±.031	**26.17E**±.023	**10**	**4.5b,3.7s**	**210**	**2-117**
EIDC	VIII	17	11 02	29.7	34.2N	26.1E	0	4.5b,3.7s		¶97viii2528
ISK	VIII	17	11 02	31.1	34.08N	26.11E	10	4.2D		
MOS	VIII	17	11 02	31.3	34.0N	26.0E	33	5.1b		
NEIC	VIII	17	11 02	32.2	34.21N	26.30E	33	4.3b,3.7s		
BJI	VIII	17	11 02	33.6	34.05N	26.01E	47	4.7b		
ATH	**VIII**	**23**	**18 21**	**44.7**	**35.63N**	**26.65E**	**49**			**¶97viii3435**
ISC	**VIII**	**28**	**22 55**	**01**±3.4	**35.1N**±.52	**25.5E**±.13	**25**		**4**	**0-3**
ATH	VIII	28	22 55	00.5	35.04N	25.55E	25	3.6D		¶97viii4194
ISC	Poorly determined									
ATH	**VIII**	**29**	**11 23**	**07.1**	**35.81N**	**23.61E**	**10**	**3.3D**		**¶97viii4286**
ATH	**VIII**	**30**	**04 05**	**50.7**	**35.87N**	**24.18E**	**10**	**3.2D**		**¶97viii4423**
ISC	**IX**	**01**	**09 09**	**42**±2.1	**35.5N**±.13	**26.11E**±.086	**29**±26		**9**	**0-6**
ATH	IX	01	09 09	41.9	35.61N	26.14E	20	3.6D		¶97ix0080
ATH	**IX**	**03**	**01 39**	**41.5**	**34.41N**	**23.76E**	**10**	**3.2D**		**¶97ix0365**

ISC	**IX**	**03 04 36 17.4**±.83	**34.28N**±.075	**25.31E**±.067	**49**±10	**4.1b,**3.0s	**69**	**1-64**
NEIC	IX	03 04 36 17.8	34.34N	25.40E	50	3.9b		**¶97ix0379**
EIDC	IX	03 04 36 19.5	34.3N	25.2E	52	3.9b,4.6L		
ATH	**IX**	**04 17 16 06.9**	**35.55N**	**23.64E**	**5**	**3.2D**		**¶97ix0615**
ISC	**IX**	**06 03 31 54**±1.8	**34.2N**±.16	**25.1E**±.13	**53**±14	**3.4b**	**13**	**1-81**
EIDC	IX	06 03 31 52.0	34.6N	25.4E	0	3.7b,4.4L		**¶97ix0854**
ATH	IX	06 03 31 59.7	34.60N	25.06E	36	3.7D		
ISC	**IX**	**08 21 49 07**±1.2	**34.1N**±.12	**25.4E**±.15	**5**		**12**	**1-9**
ATH	IX	08 21 49 09.6	34.28N	25.34E	5	3.6D		**¶97ix1286**
ISC	**IX**	**09 02 03 36**±1.7	**35.4N**±.16	**26.70E**±.088	**14**±17		**7**	**0-2**
ATH	IX	09 02 03 36.8	35.36N	26.73E	14	3.6D		**¶97ix1311**
ISC	**IX**	**15 05 16 41**±4.7	**34.7N**±.45	**24.7E**±.17	**39**		**5**	**2-3**
ATH	IX	15 05 16 42.2	34.75N	24.77E	39	3.7D		**¶97ix2203**
ISC	**IX**	**16 08 09 39**±1.2	**34.8N**±.11	**26.46E**±.068	**5**	**4.0b**	**22**	**1-48**
EIDC	IX	16 08 09 43.1	35.5N	25.1E	0	4.0b		**¶97ix2350**
ATH	IX	16 08 09 44.1	35.23N	26.39E	5	3.9D		
THE	IX	16 08 09 45.9	35.1N	26.4E	28	3.5L		
ISC	**IX**	**16 08 35 48**±1.1	**34.88N**±.083	**26.50E**±.063	**50**±9.4	**4.0b,**3.2s	**44**	**2-81**
THE	IX	16 08 35 46.4	35.0N	26.4E	10	3.7L		**¶97ix2354**
ATH	IX	16 08 35 47.7	34.91N	26.34E	37	4.1L		
NEIC	IX	16 08 35 53.0	34.92N	26.46E	100			
EIDC	IX	16 08 35 56.1	35.0N	26.4E	110	3.7b,3.2s		
NEIC	Less reliable solution.							
ISC	**IX**	**19 02 50 14**±1.9	**35.6N**±.36	**23.9E**±.38	**5**		**4**	**0-2**
ATH	IX	19 02 50 13.3	35.44N	23.82E	5	3.2D		**¶97ix2744**
ISC	Poorly determined							
ISC	**IX**	**20 02 28 45.0**±.53	**35.50N**±.083	**26.39E**±.068	**114**		**17**	**1-9**
ATH	IX	20 02 28 46.9	35.65N	26.34E	114	3.8L		**¶97ix2884**
THE	IX	20 02 28 48.4	36.0N	26.2E	10			
ISC	**IX**	**24 00 15 05.6**±.72	**34.61N**±.056	**23.33E**±.049	**37**±6.9	**4.1b,3.3s**	**90**	**1-81**
MOS	IX	24 00 15 00.1	33.9N	23.1E	33	5.1b		**¶97ix3501**
NEIC	IX	24 00 15 05.8	34.62N	23.42E	33	4.1b		
EIDC	IX	24 00 15 08.4	35.5N	24.1E	0	4.0b,3.5s		
THE	IX	24 00 15 09.7	34.9N	23.2E	71	3.8L		
ATH	IX	24 00 15 11.9	34.95N	23.39E	35	4.0L		
ISC	**IX**	**24 10 07 39**±1.3	**35.0N**±.11	**24.61E**±.078	**51**±11	**4.0b**	**35**	**1-80**
NEIC	IX	24 10 07 36.2	34.78N	24.92E	33	4.0b		**¶97ix3565**
ATH	IX	24 10 07 36.6	34.89N	24.52E	5	3.8L		
EIDC	IX	24 10 07 45.8	34.9N	24.7E	99	3.9b		
NEIC	Less reliable solution.							
ISC	**IX**	**25 02 24 56**±1.3	**35.5N**±.19	**26.6E**±.10	**6**		**5**	**0-2**
ATH	IX	25 02 24 57.4	35.51N	26.61E	6	3.6D		**¶97ix3665**
ISC	**IX**	**28 16 48 50**±1.3	**34.8N**±.13	**23.6E**±.11	**33**	**3.7b**	**27**	**1-68**
THE	IX	28 16 48 48.2	34.5N	23.0E	107			**¶97ix4706**
EIDC	IX	28 16 48 48.4	34.9N	23.8E	0	3.8b,3.7L		
ATH	IX	28 16 48 50.8	34.90N	23.29E	5	3.8L		
NEIC	IX	28 16 48 52.8	35.24N	23.82E	33	3.5b		
NEIC	Less reliable solution.							
ISC	**X**	**04 16 02 43**±1.3	**34.46N**±.032	**26.79E**±.032	**6**±9.0	**4.3b,**4.7s	**151**	**1-117**
RYD	X	04 16 02 32.9	36.78N	27.33E	34	3.9D		**¶97x0680**
BJI	X	04 16 02 41.6	34.18N	26.29E	10	4.5b,5.4s		
NEIC	X	04 16 02 43.4	34.61N	26.89E	10	4.2b		
EIDC	X	04 16 02 45.1	34.8N	26.8E	0	4.3b,4.2L		
ATH	X	04 16 02 50.7	34.90N	26.75E	4	4.1L		
THE	X	04 16 02 52.4	35.0N	26.7E	5			
ISC	**X**	**04 21 46 06**±4.0	**34.9N**±.31	**25.76E**±.097	**2**±23		**5**	**0-3**
ATH	X	04 21 46 10.0	35.04N	25.68E	5	3.6D		**¶97x0739**
ISC	Poorly determined							
ISC	**X**	**05 10 09 05.3**±.64	**34.51N**±.048	**26.82E**±.053	**47**±7.5	**4.0b,3.8s**	**78**	**1-97**
ISK	X	05 10 08 57.2	34.22N	26.41E	14	4.1D		**¶97x0848**
ATH	X	05 10 08 59.7	34.22N	26.80E	5	4.3L		
EIDC	X	05 10 09 03.2	34.8N	27.0E	0	3.9b,4.0L		
NEIC	X	05 10 09 05.0	34.79N	27.00E	33	4.0b,3.8s		
ISC	**X**	**07 02 20 15.1**±.63	**34.49N**±.056	**26.93E**±.051	**62**±7.2	**3.8b**	**57**	**1-130**
ISK	X	07 02 20 10.5	34.45N	26.79E	9	4.0D		**¶97x1158**
EIDC	X	07 02 20 11.5	34.7N	26.9E	0	3.9b,3.8L		
NEIC	X	07 02 20 13.5	34.66N	26.96E	33	4.0b		
ATH	X	07 02 20 17.7	34.72N	26.87E	18	4.0L		
ISC	**X**	**07 11 32 56**±2.7	**35.2N**±.26	**26.8E**±.16	**5**		**5**	**0-3**
ATH	X	07 11 32 57.7	35.26N	26.67E	5	3.8D		**¶97x1238**
ATH	**X**	**07 13 27 11.4**	**35.69N**	**26.72E**	**10**	**3.4b**		**¶97x1257**
ISC	**X**	**10 05 42 01**±4.8	**35.1N**±.50	**25.5E**±.22	**36**		**4**	**0-3**
ATH	X	10 05 41 57.3	34.70N	25.59E	36	3.7D		**¶97x1697**
ISC	Poorly determined							
ATH	**X**	**12 11 59 26.5**	**35.75N**	**24.45E**	**5**	**3.3D**		**¶97x2036**
ISC	**X**	**12 22 22 18**±2.0	**35.6N**±.19	**23.5E**±.17	**5**		**6**	**1-3**
ATH	X	12 22 22 16.9	35.40N	23.35E	5	3.5D		**¶97x2116**
ISC	**X**	**13 17 42 06**±2.1	**35.4N**±.25	**25.7E**±.16	**4**±37		**6**	**0-3**
ATH	X	13 17 42 07.4	35.34N	25.69E	5	3.8D		**¶97x2260**
ATH	**X**	**16 19 33 03.5**	**35.28N**	**25.66E**	**10**	**3.3b**		**¶97x2873**
ISC	**X**	**21 15 02 54**±1.4	**35.9N**±.14	**23.6E**±.14	**5**		**5**	**1-3**
ATH	X	21 15 02 54.9	35.81N	23.41E	5	3.1D		**¶97x3668**
ATH	**X**	**22 14 25 24.6**	**34.44N**	**25.07E**	**5**	**3.7D**		**¶97x3833**
ISC	**X**	**22 23 46 07**±3.3	**35.2N**±.59	**24.8E**±.19	**25**		**4**	**1-2**
ATH	X	22 23 46 08.9	35.38N	24.87E	25	3.6D		**¶97x3898**
ISC	Poorly determined							
ISC	**X**	**24 01 46 03.5**±.97	**35.68N**±.093	**26.58E**±.085	**13**		**7**	**1-3**
ATH	X	24 01 46 04.0	35.74N	26.65E	13	3.5D		**¶97x4092**
ISC	**X**	**24 22 32 45.1**±.73	**34.49N**±.072	**26.26E**±.075	**51**±9.4	**3.7b**	**33**	**1-66**
EIDC	X	24 22 32 46.8	35.2N	26.9E	0	3.8b,3.8L		**¶97x4229**
NEIC	X	24 22 32 47.7	34.96N	26.84E	33			
ATH	X	24 22 32 49.5	34.81N	26.16E	68			
NEIC	Less reliable solution.							
ATH	**X**	**26 13 12 31.2**	**35.85N**	**26.85E**	**15**	**3.8D**		**¶97x4466**
ISC	**X**	**26 14 04 54**±1.4	**34.5N**±.14	**23.8E**±.15	**33**	**3.7b,**4.7s	**13**	**1-80**
EIDC	X	26 14 04 49.6	34.3N	23.9E	0	3.8b,3.7L		**¶97x4473**
NEIC	X	26 14 04 55.0	34.61N	23.77E	33			
ATH	X	26 14 05 07.9	35.33N	23.90E	5			
NEIC	Poor solution.							
ATH	**X**	**29 06 40 52.9**	**34.46N**	**24.27E**	**35**			**¶97x4867**
ISC	**X**	**29 16 00 58**±1.6	**35.3N**±.33	**25.5E**±.11	**12**±22		**7**	**0-3**
ATH	X	29 16 00 59.0	35.32N	25.48E	5	3.9D		**¶97x4926**
ISC	**X**	**29 18 04 14.7**±.73	**35.66N**±.072	**26.15E**±.066	**9**		**16**	**1-7**
ISK	X	29 18 04 13.0	35.67N	25.93E	9	3.7D		**¶97x4934**
ATH	X	29 18 04 16.1	35.62N	26.18E	33	3.9L		
ISC	**XI**	**03 19 22 20**±1.9	**35.2N**±.19	**26.11E**±.091	**5**		**7**	**0-3**
ATH	XI	03 19 22 20.9	35.17N	26.16E	5	3.8D		**¶97xi0507**
ISC	**XI**	**05 10 33 02**±1.4	**34.8N**±.13	**25.4E**±.53	**33**	**3.7b**	**7**	**17-35**
EIDC	XI	05 10 32 59.6	34.8N	25.3E	0	4.1b,4.1L		**¶97xi0773**
ISC	**XI**	**05 12 22 51**±1.2	**34.66N**±.028	**23.96E**±.019	**5**±7.4	**5.3b,4.7s**	**436**	**1-145**
EIDC	XI	05 12 22 52.3	34.8N	24.1E	0	5.2b,5.0L		**¶97xi0797**
THE	XI	05 12 22 53.3	34.5N	23.9E	20	4.9L		
BJI	XI	05 12 22 55.3	34.74N	23.71E	46	5.5b,4.8s		
MOS	XI	05 12 22 55.4	34.8N	24.1E	33	6.0b,4.8s		
NEIC	XI	05 12 22 55.4	34.77N	23.98E	33	5.1b		
ATH	XI	05 12 22 58.4	34.91N	24.02E	15	4.7L		
HRVD	XI	05 12 22 58.4±.7	34.61N±.09	23.62E±.14	40±7.7			
PDG	XI	05 12 23 01.5	35.5N	23.6E	11	5.1L		
NEIC	Mw5.4(HRV)							
NEIC	Felt strongly on Gavdhos. Felt in many parts of Crete and on the Dodecanese Islands.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c23; Half duration: 1$1. Moment tensor: Scale 10^{17}Nm; M_{rr}0.63±.11; $M_{\theta\theta}$−0.18±.09; $M_{\phi\phi}$−0.45±.17; $M_{r\theta}$1.19±.17; $M_{r\phi}$0.14±.24; $M_{\theta\phi}$0.71±.13. Principal Axes: T 1.62,Plg49°,Azm337°; N −0.28, Plg31°,Azm110°; P −1.34,Plg24°,Azm215°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S350°,δ34°,λ154°. NP2:ϕ_S101°,δ76°,λ58°.							
ISC	**XI**	**05 23 15 34.6**±.84	**35.16N**±.085	**26.88E**±.061	**5**	**3.8b**	**26**	**0-47**
NEIC	XI	05 23 15 35.5	35.11N	26.88E	10	3.9b		**¶97xi0879**
ATH	XI	05 23 15 37.1	35.24N	26.87E	5	4.0D		
EIDC	XI	05 23 15 46.2	35.2N	26.7E	93	3.5b,3.9L		
ISC	**XI**	**06 15 17 33**±1.4	**35.9N**±.13	**26.5E**±.11	**5**		**6**	**1-4**
ATH	XI	06 15 17 33.6	35.80N	26.46E	5	3.8D		**¶97xi0995**
NEIC	XI	06 15 17 35.8	35.81N	26.49E	33			
NEIC	Single network solution.							
ISC	**XI**	**06 18 30 11**±7.4	**35.0N**±.43	**24.3E**±.21	**7**±29		**5**	**0-3**
NEIC	XI	06 18 30 11.7	35.05N	24.28E	10			**¶97xi1011**
ATH	XI	06 18 30 13.3	35.12N	24.27E	11	3.6D		
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**XI**	**06 22 55 42**±4.0	**34.7N**±.27	**23.4E**±.15	**5**		**6**	**1-9**
ATH	XI	06 22 55 42.8	34.69N	23.30E	5			**¶97xi1046**
ISC	**XI**	**12 09 36 39**±2.9	**35.5N**±.26	**23.4E**±.24	**5**		**5**	**1-2**
ATH	XI	12 09 36 39.6	35.60N	23.38E	5	3.2D		**¶97xi1962**
ISC	**XI**	**13 02 16 02**±1.4	**34.57N**±.066	**24.06E**±.067	**33**±11	**3.7b**	**37**	**1-46**
NEIC	XI	13 02 16 01.8	34.66N	24.15E	33			**¶97xi2066**
ATH	XI	13 02 16 09.3	35.09N	24.12E	32	3.8L		
EIDC	XI	13 02 16 15.3	34.8N	24.0E	154	3.5b,4.2L		
NEIC	Less reliable solution.							
ATH	**XI**	**13 03 21 14.2**	**35.35N**	**24.42E**	**10**			**¶97xi2072**
ISC	**XI**	**20 22 23 41**±2.4	**35.3N**±.29	**26.6E**±.13	**6**		**4**	**1-2**
ATH	XI	20 22 23 42.6	35.41N	26.59E	6			**¶97xi3542**
ISC	Poorly determined							
ATH	**XI**	**29 05 33 23.5**	**35.91N**	**26.40E**	**70**			**¶97xi5204**
ISC	**XII**	**01 14 16 07**±1.6	**34.06N**±.071	**24.26E**±.055	**30**±14	**4.0b**	**51**	**3-80**
NEIC	XII	01 14 16 14.4	34.88N	25.11E	33	4.1b		**¶97xii0099**
ATH	XII	01 14 16 18.7	34.82N	24.48E	36	4.1D		
EIDC	XII	01 14 16 25.9±8.39	35.3N	24.7E	106±76.2	3.8b,4.3L		
EIDC	Error ellipse is semi−major=37.3km semi−minor=20.5km azimuth=137							
ISC	**XII**	**04 20 13 20**±1.6	**34.1N**±.14	**24.4E**±.53	**33**	**3.6b**	**8**	**17-77**
EIDC	XII	04 20 13 16.0±1.95	34.2N	24.9E	0	3.9b,4.0L		**¶97xii0684**
EIDC	Error ellipse is semi−major=100.4km semi−minor=23.7km azimuth=87							
ISC	**XII**	**14 10 01 33**±1.5	**34.40N**±.095	**23.6E**±.14	**66**±16	**3.7b**	**17**	**1-49**
EIDC	XII	14 10 01 26.3±1.31	34.3N	23.9E	0	3.9b,4.0L		**¶97xii3129**
NEIC	XII	14 10 01 29.0	34.34N	23.80E	33			
ATH	XII	14 10 01 45.0	35.03N	24.42E	5	3.9D		
EIDC	Error ellipse is semi−major=47.9km semi−minor=18.0km azimuth=102							
NEIC	Less reliable solution.							
ISC	**XII**	**16 13 33 21**±1.7	**35.2N**±.16	**24.2E**±.12	**83**±9.3	**3.8b**	**27**	**0-60**
EIDC	XII	16 13 33 05.9	34.6N	26.0E	0	4.2b,4.2L		**¶97xii3457**
ATH	XII	16 13 33 22.7	35.27N	24.25E	29	3.8L		
EIDC	Origin time error = 12.87Error ellipse is semi−major=260.2km semi−minor=50.1km azimuth=26							
ISC	**XII**	**17 09 40 08.8**±.96	**34.87N**±.035	**23.22E**±.027	**26**±7.0	**4.7b,4.4s**	**210**	**2-145**
PDG	XII	17 09 40 07.6	34.7N	22.5E	16	4.6L		**¶97xii3586**
MOS	XII	17 09 40 07.7	34.8N	23.2E	29	5.4b		
THE	XII	17 09 40 09.0	34.9N	23.0E	0	4.5L		
NEIC	XII	17 09 40 09.6	34.94N	23.30E	33	4.7b		
EIDC	XII	17 09 40 10.6±.41	35.0N	23.3E	26±2.8	4.5b,4.5s		
ATH	XII	17 09 40 11.6	34.85N	23.22E	33	4.5L		
EIDC	Error ellipse is semi−major=15.2km semi−minor=11.4km azimuth=98							
ISC	**XII**	**20 10 35 40**±1.1	**34.38N**±.040	**24.21E**±.034	**33**±8.8	**4.2b,4.0s**	**118**	**1-119**
EIDC	XII	20 10 35 37.8±.77	34.6N	24.3E	0	4.1b,4.0s		**¶97xii4107**
NEIC	XII	20 10 35 40.2	34.46N	24.26E	33	4.2b		
THE	XII	20 10 35 46.9	34.9N	24.1E	0	3.7L		
ATH	XII	20 10 35 49.0	34.91N	24.41E	39	4.1L		
EIDC	Error ellipse is semi−major=21.6km semi−minor=16.6km azimuth=89							
ATH	**XII**	**22 22 58 48.9**	**35.86N**	**26.90E**	**37**	**3.5D**		**¶97xii4498**
ISC	**XII**	**27 15 30 08**±3.7	**34.4N**±.29	**25.1E**±.12	**2**	3.7b	**7**	**1-28**
EIDC	XII	27 15 29 49.8	32.9N	25.4E	0	3.8b,4.2L		**¶97xii5311**
ATH	XII	27 15 30 08.5	34.35N	25.13E	2	3.7D		
EIDC	Origin time error = 16.45Error ellipse is semi−major=294.6km semi−minor=112.6km azimuth=22							
ISC	**XII**	**29 13 41 52**±1.0	**35.4N**±.13	**23.1E**±.15	**33**	**3.6b**	**13**	**1-77**
EIDC	XII	29 13 41 44.0±1.26	35.5N	26.0E	0	3.9b,4.4L		**¶97xii5588**
NEIC	XII	29 13 41 46.7	35.48N	25.94E	33	3.3b		
ATH	XII	29 13 41 58.7	35.81N	23.67E	5	3.7D		
EIDC	Error ellipse is semi−major=45.1km semi−minor=23.1km azimuth=87							
NEIC	Less reliable solution.							

(371) Eastern Mediterranean Sea.

ISC	**VII**	**12 12 16 28**±2.7	**33.0N**±.16	**34.8E**±.20	**30**±8.0		**17**	**0-3**
IPRG	VII	12 12 16 28.7±.17	33.0N	34.9E	20±2.7	2.4L		**¶97vii1813**
ISC	**VII**	**17 23 19 01.8**±.54	**33.87N**±.055	**28.34E**±.057	**58**±8.5	**3.8b**	**72**	**2-79**
ISK	VII	17 23 18 45.6	32.93N	27.62E	9	3.8D		**¶97vii2660**
NEIC	VII	17 23 19 00.6	34.10N	28.43E	33	3.9b		
RYD	VII	17 23 19 02.8	33.97N	27.75E	30	4.4D		
ATH	VII	17 23 19 26.8	35.44N	26.86E	33	3.9D		
EIDC	VII	17 23 19 29.2	37.5N	26.7E	0	3.4b		
ISC	**VII**	**21 11 13 52**±1.8	**35.6N**±.16	**29.5E**±.10	**7**	3.5b	**14**	**1-27**
ISK	VII	21 11 13 52.9	35.72N	29.50E	7	3.6D		**¶97vii3235**
EIDC	VII	21 11 13 58.5	35.8N	28.7E	0	3.6b,4.0L		
ISC	**VII**	**23 12 19 49**±12	**35.5N**±.60	**28.2E**±.86	**5**		**5**	**1-4**
ATH	VII	23 12 19 52.8	35.70N	28.12E	5	3.8D		**¶97vii3526**
ISC	**VIII**	**10 20 43 32.5**±.62	**35.74N**±.070	**30.99E**±.097	**5**		**18**	**1-7**
ISK	VIII	10 20 43 33.6	35.92N	31.12E	5	3.7D		**¶97viii1457**
ATH	**VIII**	**14 14 59 20.5**	**34.86N**	**27.75E**	**38**	**3.9D**		**¶97viii2084**
EIDC	VIII	14 14 59 50.0	35.6N	26.5E	167	3.5b		
IPRG	**VIII**	**16 05 08 35.3**	**32.5N**	**32.2E**	**7**			**¶97viii2317**
ISC	**VIII**	**22 22 55 52**±2.1	**33.78N**±.075	**25.41E**±.056	**29**±17	**4.0b,3.1s**	**59**	**6-64**
NEIC	VIII	22 22 55 53.0	33.81N	25.40E	33	4.1b		**¶97viii3300**
EIDC	VIII	22 22 55 56.7	33.8N	25.6E	45	3.8b,4.0L		

Agency		Origin Time			φ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
ISC	**VIII**	**28**	**18 14**	**36.9±.49**	**33.96N±.036**	**31.41E±.067**	**33**		**42**	**1-6**
ISK	VIII	28	18 14	31.5	33.84N	31.41E	33	3.7D		¶97viii4172
RYD	VIII	28	18 14	36.0	33.69N	30.48E	33	3.6D		
IPRG	**X**	**10**	**12 19**	**59.2±.45**	**33.3N**	**34.7E**	**16±3.1**	**3.0L**		**¶97x1748**
ISC	**X**	**15**	**02 18**	**56±3.2**	**35.75N±.043**	**29.37E±.068**	**6±22**	**4.1b**	**55**	**1-80**
ISK	X	15	02 18	54.0	35.66N	29.34E	33	3.9D		¶97x2539
NEIC	X	15	02 18	56.4	35.80N	29.41E	10	4.2b		
EIDC	X	15	02 18	57.6	35.9N	29.5E	0	4.0b,4.3L		
ISC	**X**	**16**	**02 10**	**17.0±.45**	**35.74N±.043**	**29.58E±.055**	**61±7.9**	**4.1b**	**48**	**1-43**
NEIC	X	16	02 10	07.5	34.98N	29.61E	33	4.2b		¶97x2769
ISK	X	16	02 10	11.6	35.61N	29.46E	33	4.1D		
EIDC	X	16	02 10	14.4	35.8N	29.5E	0	3.8L,4.2b		
ATH	X	16	02 10	23.1	36.16N	28.88E	5	4.2D		
NEIC	Poor solution.									
ISC	**X**	**27**	**11 53**	**03±7.5**	**35.7N±.51**	**28.3E±.48**	**33**		**5**	**1-4**
ISK	X	27	11 53	00.2	35.85N	28.36E	33	3.2D		¶97x4607
ISC	**XI**	**09**	**12 24**	**37±4.0**	**35.8N±.32**	**29.3E±.23**	**10**		**5**	**1-4**
ISK	XI	09	12 24	39.3	35.92N	29.31E	10	3.2D		¶97xi1445
ISK	**XI**	**10**	**23 25**	**54.9**	**35.58N**	**28.52E**	**10**	**3.2D**		**¶97xi1691**
ISK	**XI**	**11**	**01 57**	**04.6**	**35.48N**	**28.50E**	**10**	**3.4D**		**¶97xi1709**
ISC	**XI**	**11**	**22 37**	**13.4±.74**	**35.70N±.047**	**28.61E±.075**	**38±9.5**	**3.9b**	**52**	**1-75**
NEIC	XI	11	22 37	10.4	35.74N	28.63E	10	4.2b		¶97xi1885
ISK	XI	11	22 37	15.1	35.84N	28.62E	10	3.7D		
EIDC	XI	11	22 37	17.1	35.9N	28.8E	36	3.6b,3.6L		
ISC	**XI**	**13**	**23 39**	**50.8±.65**	**35.78N±.058**	**28.75E±.056**	**44±8.1**	**3.6b**	**33**	**1-64**
ATH	XI	13	23 39	47.3	35.85N	28.90E	5	4.1D		¶97xi2206
EIDC	XI	13	23 39	48.1	35.9N	28.9E	0	3.7b,3.9L		
NEIC	XI	13	23 39	49.3	35.77N	28.73E	33	3.8b		
ISK	XI	13	23 39	50.1	36.04N	28.62E	33	3.6D		
ISC	**XII**	**20**	**04 14**	**28±3.5**	**33.5N±.53**	**27.0E±.63**	**33**	**3.8b**	**7**	**8-79**
EIDC	XII	20	04 14	24.8±6.47	33.3N	26.6E	0	3.9b,3.4L		¶97xii4077
EIDC	Error ellipse is semi−major=174.2km semi−minor=32.0km azimuth=43									

(372) Cyprus.

ISC	**VII**	**09**	**19 22**	**20±2.4**	**34.42N±.074**	**32.0E±.29**	**28±20**		**19**	**1-5**
IPRG	VII	09	19 22	24.3±.35	34.3N	32.1E	25	2.8L		¶97vii1381
ISC	**VII**	**11**	**20 50**	**14±2.5**	**34.5N±.12**	**32.1E±.40**	**26±28**		**16**	**0-5**
IPRG	VII	11	20 50	16.6±.53	34.5N	32.2E	25	2.2L		¶97vii1729
ISC	**VII**	**11**	**22 00**	**37±7.6**	**34.4N±.52**	**32.2E±.15**	**23±37**		**6**	**1-4**
ISC	ML2.9 (after CSS)									¶97vii1732
ISC	**VII**	**12**	**11 39**	**28±5.4**	**34.7N±.53**	**32.2E±.17**	**31±16**		**5**	**0-4**
ISC	ML2.7 (after CSS), Poorly determined									¶97vii1808
ISC	**VII**	**21**	**01 56**	**00±3.2**	**35.03N±.093**	**32.2E±.26**	**16±13**	3.6b	**24**	**0-79**
ISK	VII	21	01 56	01.5	34.77N	32.66E	10	3.7D		¶97vii3173
IPRG	VII	21	01 56	04.7±.37	34.9N	32.3E	25	2.8L		
ISC	**VII**	**30**	**09 25**	**37.4±.52**	**34.66N±.045**	**32.18E±.078**	**33**	**3.9b**	**35**	**0-101**
NEIC	VII	30	09 25	35.2	34.61N	31.32E	33			¶97vii4563
EIDC	VII	30	09 25	39.1	34.4N	31.5E	62	3.8b		
NEIC	Less reliable solution.									
ISC	**VII**	**31**	**07 00**	**25.2±.27**	**34.96N±.029**	**33.80E±.050**	**63±4.7**	**3.6b**	**74**	**0-81**
EIDC	VII	31	07 00	19.0	35.1N	34.0E	0	3.9b		¶97vii4692
NEIC	VII	31	07 00	23.0	35.10N	33.79E	33	4.2b		
MOS	VII	31	07 00	24.1	34.9N	33.5E	33	4.3b		
RYD	VII	31	07 00	34.2	33.77N	31.33E	16	4.0D		
ISC	ML3.9 (after CSS) ML4.1 (after FAM)									
NEIC	$M_{L4.0}$(JER).									
ISC	**VIII**	**02**	**14 37**	**19.8±.81**	**34.51N±.070**	**32.0E±.11**	**9**		**16**	**2-20**
ISK	VIII	02	14 37	22.9	34.78N	32.08E	9	3.7D		¶97viii0225
IPRG	VIII	02	14 37	26.3±.57	34.4N	32.2E	25±4.2	3.1L		
ISC	**VIII**	**10**	**05 23**	**32.5±.44**	**34.31N±.034**	**32.12E±.058**	**54±7.7**	**4.0b**	**82**	**2-80**
RYD	VIII	10	05 23	27.5	34.48N	38.67E	38	3.7D		¶97viii1353
ISK	VIII	10	05 23	30.1	34.25N	32.12E	15	4.0D		
EIDC	VIII	10	05 23	30.8	34.5N	32.3E	16	3.9b,4.5L		
IPRG	VIII	10	05 23	35.8±.31	34.2N	32.2E	25±2.1	4.1L,4.2b		
NEIC	VIII	10	05 23	36.3	34.56N	32.09E	79	3.9b		
ISC	**VIII**	**13**	**05 42**	**26±2.2**	**34.37N±.084**	**32.1E±.30**	**28±24**		**13**	**1-5**
IPRG	VIII	13	05 42	28.2±.89	34.4N	32.1E	25	2.8L		¶97viii1857
ISC	**VIII**	**30**	**01 17**	**05.7±.52**	**34.43N±.046**	**32.13E±.086**	**49±13**	3.7b	**42**	**1-29**
RYD	VIII	30	01 16	51.2	35.88N	36.01E	10	3.5D		¶97viii4403
ISK	VIII	30	01 16	59.3	34.22N	32.05E	33	3.7D		
EIDC	VIII	30	01 17	07.6	35.2N	32.4E	0	3.9b,4.0L		
IPRG	VIII	30	01 17	07.9±.30	34.4N	32.2E	25±2.5	3.5L		
NEIC	VIII	30	01 17	08.3	34.97N	32.20E	33			
NEIC	Poor solution.									
ISC	**IX**	**08**	**23 19**	**36±2.0**	**34.33N±.052**	**32.1E±.25**	**25**		**16**	**1-5**
IPRG	IX	08	23 19	41.1±.59	34.2N	32.3E	25	2.6L		¶97ix1296
ISC	**IX**	**10**	**23 03**	**48.7±.53**	**34.47N±.042**	**32.04E±.080**	**48±11**	**3.9b**	**46**	**0-35**
IPRG	IX	10	23 03	50.0±.17	34.4N	32.2E	9±4.0	3.4L		¶97ix1594
EIDC	IX	10	23 03	52.5	35.3N	31.9E	0	4.1b,4.2L		
ISC	**IX**	**12**	**00 03**	**54±1.2**	**34.42N±.039**	**32.14E±.065**	**33±11**	**3.8b**	**57**	**0-35**
ISK	IX	12	00 03	47.7	34.10N	32.11E	9	3.9D		¶97ix1749
EIDC	IX	12	00 03	51.4	34.2N	31.8E	0	4.1L,3.9b		
NEIC	IX	12	00 03	53.5	34.43N	32.12E	33	3.7b		
IPRG	IX	12	00 03	55.6±.25	34.3N	32.4E	9±4.6	3.8L,4.1b		
ISC	**IX**	**13**	**02 01**	**21±1.2**	**34.52N±.079**	**31.6E±.14**	**33**		**13**	**1-20**
IPRG	IX	13	02 01	28.8±.47	34.1N	32.5E	0	2.2L		¶97ix1895
ISC	**IX**	**14**	**01 56**	**56.3±.33**	**34.25N±.032**	**32.35E±.053**	**45±7.1**	**4.0b,3.3s**	**93**	**1-81**
NEIC	IX	14	01 56	52.8	34.31N	32.29E	10	4.1b		¶97ix2060
ISK	IX	14	01 56	53.2	33.99N	32.34E	10	4.2D		
IPRG	IX	14	01 56	57.6±.30	34.3N	32.4E	25	4.3L,4.4b		
EIDC	IX	14	01 56	58.7	34.3N	32.4E	42	3.8b,4.6L		
NEIC	$M_{L4.2}$(JER).									
ISC	**IX**	**15**	**19 41**	**33±2.0**	**34.7N±.17**	**32.7E±.14**	**10**		**4**	**1-4**
ISK	IX	15	19 41	33.4	34.70N	32.72E	10	3.6D		¶97ix2277
ISC	Poorly determined									
ISC	**IX**	**16**	**08 33**	**59.0±.41**	**34.35N±.035**	**32.14E±.064**	**64±9.2**	**3.9b**	**58**	**1-35**
ISK	IX	16	08 33	52.0	34.11N	32.12E	5	4.0D		¶97ix2353
NEIC	IX	16	08 33	54.3	34.48N	32.01E	10			
IPRG	IX	16	08 34	01.5±.37	34.3N	32.2E	25	4.1L,4.2b		
EIDC	IX	16	08 34	02.7	34.3N	32.2E	83	4.4L,3.7b		
NEIC	$M_{L4.1}$(JER).									
ISC	**IX**	**19**	**22 33**	**42.6±.35**	**34.49N±.039**	**31.97E±.062**	**33**	**3.8b**	**53**	**0-35**
EIDC	IX	19	22 33	39.4	34.7N	32.4E	0	3.9b,4.1L		¶97ix2857
NEIC	IX	19	22 33	42.1	34.76N	32.30E	33	4.1b		
ISK	IX	19	22 33	42.6	34.78N	32.05E	9	4.0D		
IPRG	IX	19	22 33	45.7±.29	34.3N	32.3E	4	4.1L,4.3b		
NEIC	Less reliable solution.									
ISC	**X**	**05**	**15 09**	**15±1.1**	**34.87N±.083**	**33.1E±.11**	**44±26**		**16**	**0-5**
IPRG	X	05	15 09	19.8±.51	34.7N	33.2E	25	2.2L		¶97x0878
ISC	**X**	**07**	**12 25**	**29±1.4**	**34.25N±.037**	**32.36E±.051**	**28±16**		**44**	**1-8**
ISK	X	07	12 25	23.7	34.00N	32.40E	8	3.9D		¶97x1250
IPRG	X	07	12 25	30.6±.33	34.3N	32.4E	25	4.1L,4.2b		
ISC	**XI**	**08**	**09 38**	**18±1.8**	**35.6N±.22**	**31.5E±.15**	**15**		**7**	**2-3**
ISK	XI	08	09 38	19.0	35.77N	31.66E	15	3.4D		¶97xi1248
ISC	**XI**	**13**	**09 26**	**55±1.8**	**35.3N±.22**	**31.3E±.15**	**5**		**9**	**1-3**
ISK	XI	13	09 26	58.3	35.76N	31.60E	5	3.5D		¶97xi2109
ISC	**XI**	**17**	**00 46**	**45±1.1**	**36.0N±.18**	**31.8E±.15**	**100**		**6**	**1-3**
										¶97xi2718
IPRG	**XI**	**19**	**20 12**	**16.4±.62**	**34.3N**	**32.2E**	**25**	**2.0L**		**¶97xi3305**
ISC	**XI**	**27**	**17 59**	**01±2.3**	**34.38N±.071**	**32.2E±.23**	**17±23**		**16**	**1-5**
NEIC	XI	27	17 59	00.0	34.37N	32.21E	10			¶97xi4912
IPRG	XI	27	17 59	06.2±.48	34.2N	32.3E	25	2.3L		
ISC	**XII**	**14**	**03 12**	**56.0±.73**	**35.46N±.059**	**34.82E±.081**	**10**		**15**	**1-6**
NEIC	XII	14	03 12	56.2	35.44N	34.83E	10			¶97xii3072
ISK	XII	14	03 12	56.6	35.48N	34.76E	14	3.9D		
IPRG	XII	14	03 13	01.3±.62	35.3N	34.8E	25	3.5L		
NEIC	Single network solution.									
ISC	**XII**	**21**	**09 28**	**00±4.4**	**34.0N±.22**	**34.8E±.23**	**0**		**8**	**1-2**
IPRG	XII	21	09 27	59.9±.46	34.1N	34.9E	0±9.5	2.0L		¶97xii4237
ISC	**XII**	**26**	**03 33**	**34±3.8**	**34.45N±.082**	**32.1E±.48**	**25**		**14**	**1-5**
IPRG	XII	26	03 33	36.9±1.17	34.5N	32.2E	25	2.1L		¶97xii5036

(373) Dead Sea region.

RYD	**VII**	**02**	**08 21**	**31.3**	**30.11N**	**36.59E**	**35**	**3.2D**		**¶97vii0203**
RYD	**VII**	**04**	**12 11**	**12.1**	**31.26N**	**36.94E**	**20**	**3.1D**		**¶97vii0558**
RYD	**VII**	**04**	**12 46**	**12.4**	**31.18N**	**35.9E**	**2**	**3.3D**		**¶97vii0562**
RYD	**VII**	**06**	**12 36**	**36.7**	**30.28N**	**36.67E**	**35**	**3.5D**		**¶97vii0886**
RYD	**VII**	**08**	**08 09**	**39.5**	**31.26N**	**35.98E**	**34**	**3.1D**		**¶97vii1152**
RYD	**VII**	**08**	**13 34**	**47.0**	**30.02N**	**36.45E**	**35**	**3.1D**		**¶97vii1197**
RYD	**VII**	**09**	**10 09**	**59.0**	**30.12N**	**36.48E**	**35**	**3.2D**		**¶97vii1319**
RYD	**VII**	**09**	**11 22**	**42.5**	**31.61N**	**36.15E**	**35**	**3.2D**		**¶97vii1327**
RYD	**VII**	**11**	**10 10**	**16.1**	**30.04N**	**36.52E**	**35**	**3.5D**		**¶97vii1665**
RYD	**VII**	**11**	**12 05**	**24.4**	**31.16N**	**36.36E**	**34**	**3.2D**		**¶97vii1684**
RYD	**VII**	**12**	**10 30**	**33.7**	**31.14N**	**36.00E**	**35**	**3.2D**		**¶97vii1802**
RYD	**VII**	**12**	**11 33**	**01.0**	**31.46N**	**36.64E**	**35**	**3.3D**		**¶97vii1807**
RYD	**VII**	**13**	**11 18**	**59.2**	**31.36N**	**36.58E**	**35**	**3.2D**		**¶97vii1962**
RYD	**VII**	**14**	**10 35**	**23.2**	**30.08N**	**36.57E**	**35**	**3.1D**		**¶97vii2107**
RYD	**VII**	**14**	**11 07**	**27.9**	**31.32N**	**36.35E**	**35**	**3.2D**		**¶97vii2112**
RYD	**VII**	**14**	**15 23**	**50.8**	**30.23N**	**36.38E**	**35**	**3.2D**		**¶97vii2162**
ISC	**VII**	**16**	**07 56**	**51±2.6**	**30.84N±.056**	**35.0E±.22**	**12±12**		**11**	**0-2**
										¶97vii2406
ISC	Origin time may be incorrect due to occasional timing problems with Jordanian network									
ISC	**VII**	**16**	**20 05**	**21.6±.46**	**32.07N±.031**	**35.45E±.054**	**7±7.5**		**20**	**0-2**
IPRG	VII	16	20 05	21.6±.54	32.1N	35.5E	2±2.2	2.2L		¶97vii2488
JSO	VII	16	20 05	23.1	32.07N	35.53E	2	2.5L		
ISC	**VII**	**17**	**06 40**	**58±1.1**	**30.19N±.042**	**35.2E±.13**	**2±22**		**11**	**0-2**
IPRG	VII	17	06 40	58.5±4.23	30.2N	35.2E	11	2.1L		¶97vii2557
RYD	**VII**	**18**	**11 46**	**14.8**	**30.11N**	**36.39E**	**35**	**3.1D**		**¶97vii2732**
RYD	**VII**	**18**	**13 00**	**39.1**	**31.43N**	**36.05E**	**7**	**3.6D**		**¶97vii2743**
RYD	**VII**	**19**	**09 56**	**19.4**	**30.14N**	**36.68E**	**35**	**3.3D**		**¶97vii2855**
RYD	**VII**	**19**	**11 05**	**02.5**	**32.13N**	**36E**	**33**	**3.0D**		**¶97vii2860**
RYD	**VII**	**20**	**09 25**	**38.1**	**30.15N**	**36.57E**	**36**	**3.3D**		**¶97vii3057**
RYD	**VII**	**20**	**09 52**	**33.7**	**30.13N**	**35.38E**	**3**	**3.1D**		**¶97vii3063**
RYD	**VII**	**20**	**11 11**	**55.1**	**31.59N**	**36.19E**	**35**	**3.0D**		**¶97vii3078**
RYD	**VII**	**20**	**12 01**	**38.0**	**31.25N**	**36.49E**	**35**	**3.0D**		**¶97vii3086**
ISC	**VII**	**20**	**12 31**	**54±1.0**	**32.03N±.041**	**35.7E±.12**	**8±8.7**		**19**	**0-2**
IPRG	VII	20	12 31	55.9±.23	32.0N	35.6E	9±3.2	2.3L		¶97vii3092
RYD	**VII**	**22**	**12 03**	**51.2**	**31.36N**	**36.72E**	**35**	**3.1D**		**¶97vii3373**
RYD	**VII**	**27**	**08 49**	**40.1**	**31.00N**	**36.08E**	**34**	**3.3D**		**¶97vii4085**
RYD	**VII**	**27**	**09 03**	**25.9**	**30.36N**	**34.83E**	**35**	**3.4D**		**¶97vii4086**
RYD	**VII**	**28**	**11 12**	**44.5**	**31.55N**	**36.46E**	**35**	**3.3D**		**¶97vii4259**
RYD	**VII**	**28**	**11 40**	**01.8**	**30.33N**	**36.77E**	**35**	**3.2D**		**¶97vii4261**
RYD	**VII**	**28**	**11 55**	**20.6**	**31.75N**	**36.71E**	**35**	**3.2D**		**¶97vii4266**
RYD	**VII**	**28**	**12 00**	**35.7**	**31.2N**	**36.19E**	**35**	**3.5D**		**¶97vii4267**
RYD	**VII**	**29**	**08 58**	**21.1**	**30.1N**	**36.6E**	**35**	**3.5D**		**¶97vii4410**
RYD	**VII**	**29**	**11 36**	**02.6**	**31.7N**	**36.02E**	**35**	**3.3D**		**¶97vii4427**
RYD	**VII**	**29**	**11 58**	**27.0**	**31.30N**	**36.45E**	**35**	**3.5D**		**¶97vii4428**
ISC	**VII**	**31**	**17 18**	**06.2±.98**	**30.23N±.035**	**35.2E±.12**	**13±11**		**18**	**0-2**
IPRG	VII	31	17 18	06.7±.14	30.2N	35.3E	7±1.3	2.7L		¶97vii4768
RYD	**VIII**	**02**	**11 30**	**38.4**	**31.57N**	**36.40E**	**1**	**3.1D**		**¶97viii0205**
RYD	**VIII**	**03**	**13 07**	**51.9**	**30.50N**	**36.67E**	**35**	**3.1D**		**¶97viii0365**
RYD	**VIII**	**04**	**10 29**	**24.4**	**31.94N**	**36.31E**	**35**	**3.1D**		**¶97viii0493**
RYD	**VIII**	**04**	**11 17**	**16.3**	**30.95N**	**36.87E**	**34**	**3.0D**		**¶97viii0500**
RYD	**VIII**	**05**	**11 07**	**03.6**	**32.02N**	**34.92E**	**10**	**3.0D**		**¶97viii0657**
RYD	**VIII**	**05**	**11 24**	**18.1**	**31.96N**	**36.40E**	**21**	**3.1D**		**¶97viii0662**
RYD	**VIII**	**06**	**11 06**	**33.7**	**31.73N**	**36.04E**	**34**	**3.0D**		**¶97viii0787**
RYD	**VIII**	**06**	**12 04**	**06.1**	**31.24N**	**36.32E**	**34**	**3.1D**		**¶97viii0796**
RYD	**VIII**	**07**	**11 01**	**09.0**	**31.74N**	**36.47E**	**12**	**3.2D**		**¶97viii0931**
RYD	**VIII**	**08**	**07 28**	**20.7**	**30.19N**	**36.71E**	**20**	**3.2D**		**¶97viii1067**
RYD	**VIII**	**08**	**11 01**	**38.8**	**31.70N**	**36.17E**	**35**	**3.1D**		**¶97viii1099**
RYD	**VIII**	**10**	**13 14**	**07.5**	**32.22N**	**36.33E**	**35**	**3.1D**		**¶97viii1396**
RYD	**VIII**	**11**	**11 09**	**38.9**	**31.74N**	**35.97E**	**36**	**3.1D**		**¶97viii1550**
RYD	**VIII**	**12**	**08 53**	**57.2**	**30.20N**	**36.48E**	**35**	**3.2D**		**¶97viii1705**
RYD	**VIII**	**12**	**11 02**	**52.7**	**31.78N**	**36.20E**	**33**	**3.0D**		**¶97viii1727**
RYD	**VIII**	**13**	**07 32**	**14.4**	**31.43N**	**36.45E**	**35**	**3.0D**		**¶97viii1872**
RYD	**VIII**	**13**	**10 32**	**41.2**	**30.25N**	**36.58E**	**35**	**3.1D**		**¶97viii1891**
RYD	**VIII**	**13**	**11 47**	**24.7**	**31.67N**	**35.82E**	**35**	**3.2D**		**¶97viii1901**
ISC	**VIII**	**14**	**05 30**	**30±1.6**	**32.61N±.085**	**36.6E±.12**	**7±8.8**		**17**	**0-2**
IPRG	VIII	14	05 30	30.0±.30	32.6N	36.7E	9	2.9L		¶97viii2012
JSO	VIII	14	05 30	31.3	32.53N	36.65E	6	3.0L		
RYD	**VIII**	**14**	**13 00**	**57.3**	**31.72N**	**36.30E**	**35**	**3.2D**		**¶97viii2065**
RYD	**VIII**	**15**	**10 05**	**04.5**	**30.1N**	**36.61E**	**33**	**3.1D**		**¶97viii2199**
RYD	**VIII**	**15**	**11 42**	**11.5**	**31.80N**	**36.22E**	**33**	**3.1D**		**¶97viii2214**
ISC	**VIII**	**16**	**10 16**	**52.7±.88**	**30.03N±.033**	**35.45E±.088**	**4**		**18**	**1-2**
RYD	VIII	16	10 16	49.0	30.56N	35.47E	33	3.0D		¶97viii2350
IPRG	VIII	16	10 16	53.0±2.00	30.0N	35.4E	4	2.1L		
RYD	**VIII**	**16**	**11 10**	**47.8**	**31.29N**	**36.18E**	**24**	**3.0D**		**¶97viii2354**
RYD	**VIII**	**19**	**09 19**	**22.7**	**30.30N**	**36.54E**	**30**	**3.0D**		**¶97viii2789**
RYD	**VIII**	**19**	**10 08**	**22.3**	**31.35N**	**36.32E**	**34**	**3.0D**		**¶97viii2793**
RYD	**VIII**	**19**	**11 07**	**09.3**	**31.67N**	**35.86E**	**34**	**3.2D**		**¶97viii2797**
RYD	**VIII**	**19**	**11 30**	**45.5**	**32.41N**	**36.08E**	**35**	**3.1D**		**¶97viii2799**
RYD	**VIII**	**20**	**11 03**	**44.8**	**31.79N**	**36.11E**	**34**	**3.0D**		**¶97viii2948**
RYD	**VIII**	**23**	**10 13**	**56.7**	**30.38N**	**36.50E**	**17**	**3.0D**		**¶97viii3385**
RYD	**VIII**	**26**	**11 31**	**53.6**	**32.36N**	**36.51E**	**38**	**3.1D**		**¶97viii3839**
RYD	**VIII**	**27**	**09 00**	**14.4**	**30.40N**	**36.55E**	**35**	**3.0D**		**¶97viii3961**
RYD	**VIII**	**31**	**11 14**	**50.4**	**32.27N**	**36.70E**	**3**	**3.0D**		**¶97viii4642**

RYD	**IX**	**01 10 56 27.1**	**30.22N**	**36.75E**	**33**	**3.4D**	**¶97ix0096**
RYD	**IX**	**02 11 03 11.9**	**31.77N**	**36.27E**	**35**	**3.0D**	**¶97ix0266**
RYD	**IX**	**02 11 23 24.0**	**31.58N**	**36.3E**	**35**	**3.0D**	**¶97ix0268**
ISC	**IX**	**04 08 20 06**±1.4	**31.41N**±.061	**35.5E**±.15	**28**±7.0		**18 0-2**
IPRG	IX	04 08 20 07.0±.71	31.4N	35.4E	22±1.3	2.9L	**¶97ix0569**
RYD	**IX**	**05 11 13 36.4**	**31.94N**	**36.37E**		**3.0D**	**¶97ix0741**
RYD	**IX**	**06 11 34 04.4**	**31.78N**	**36.46E**	**10**	**3.0D**	**¶97ix0908**
RYD	**IX**	**06 11 57 03.8**	**31.14N**	**36.36E**	**18**	**3.0D**	**¶97ix0911**
RYD	**IX**	**07 09 01 51.4**	**31.32N**	**36.28E**	**21**	**3.2D**	**¶97ix1036**
RYD	**IX**	**07 09 36 43.5**	**30.07N**	**36.41E**	**35**	**3.3D**	**¶97ix1042**
RYD	**IX**	**07 11 16 37.5**	**31.55N**	**36.4E**		**3.0D**	**¶97ix1054**
RYD	**IX**	**07 11 18 30.7**	**31.51N**	**36.36E**	**20**	**3.0D**	**¶97ix1056**
RYD	**IX**	**07 11 23 04.0**	**31.27N**	**36.25E**	**31**	**3.0D**	**¶97ix1057**
ISC	**IX**	**07 23 30 21**±1.1	**32.11N**±.040	**35.7E**±.13	**9**±7.1		**19 0-2**
IPRG	IX	07 23 30 22.0±.17	32.1N	35.6E	14±3.5	2.0L	**¶97ix1142**
RYD	**IX**	**09 10 38 16.0**	**30.0N**	**36.5E**	**35**	**3.1D**	**¶97ix1360**
RYD	**IX**	**14 11 11 23.5**	**30.0N**	**36.6E**	**35**	**3.1D**	**¶97ix2111**
ISC	**IX**	**21 14 53 17**±1.4	**31.43N**±.054	**35.5E**±.14	**15**		**12 0-1**
IPRG	IX	21 14 53 18.2±.13	31.5N	35.4E	15±1.3	2.1L	**¶97ix3115**
ISC	**IX**	**23 02 27 22**±2.2	**31.37N**±.075	**35.6E**±.20	**11**±17		**9 0-2**
IPRG	IX	23 02 27 24.4±.17	31.5N	35.4E	13±5.6	2.0L	**¶97ix3359**
ISC	**IX**	**23 15 23 53**±1.1	**31.43N**±.038	**35.5E**±.13	**9**±7.3		**27 0-3**
IPRG	IX	23 15 23 54.2±.18	31.5N	35.4E	12±2.2	2.6L	**¶97ix3445**
ISC	**IX**	**26 07 06 28**±2.1	**31.45N**±.084	**35.5E**±.21	**13**±8.5		**11 0-1**
IPRG	IX	26 07 06 29.4±.00	31.4N	35.5E	0	2.5L	**¶97ix3902**
RYD	**IX**	**28 10 48 41.5**	**30.1N**	**36.5E**	**35**	**3.1D**	**¶97ix4620**
ISC	**X**	**02 00 45 36**±1.1	**31.44N**±.053	**35.5E**±.13	**14**±8.8		**23 0-2**
IPRG	X	02 00 45 36.9±.19	31.4N	35.5E	11±1.8	2.5L	**¶97x0180**
JSO	X	02 00 47 16.9	31.46N	35.55E	9	2.6L	
ISC	**XI**	**17 10 29 53.7**±.75	**32.04N**±.033	**35.4E**±.11	**2**±8.3		**20 0-2**
IPRG	XI	17 10 29 54.5±.33	32.1N	35.4E	5±1.5	3.3L	**¶97xi2777**
ISC	**XI**	**17 21 27 53**±1.1	**32.68N**±.057	**36.43E**±.081	**4**±7.6		**35 1-10**
RYD	XI	17 21 27 25.9	25.87N	41.97E	34	3.4D	**¶97xi2861**
IPRG	XI	17 21 27 54.0±.33	32.7N	36.5E	5±2.6	3.7L,4.1b	
JSO	XI	17 21 27 54.9	32.70N	36.48E	11	3.6L	
ISC	**XI**	**29 22 11 41**±1.3	**32.04N**±.074	**35.4E**±.16	**4**±19		**5 0-2**
NEIC	XI	29 22 11 40.5	32.05N	35.39E	10		**¶97xi5331**
ISC	Poorly determined						
NEIC	Single network solution.						
RYD	**XII**	**07 12 48 10.9**	**30.24N**	**35.91E**	**22**	**3.1D**	**¶97xii1699**
RYD	**XII**	**22 11 43 23.4**	**30.75N**	**35.83E**	**14**	**3.1D**	**¶97xii4417**
RYD	**XII**	**28 14 37 00.5**	**30.51N**	**36.01E**	**32**	**3.0D**	**¶97xii5464**

(374) Jordan-Syria region.

IPRG	**VII**	**05 17 57 59.1**±1.19	**34.3N**	**36.3E**	**0**	**2.1L**	**¶97vii0763**
ISC	**VII**	**15 02 17 38**±1.3	**33.70N**±.075	**35.5E**±.14	**0**±8.7		**15 0-4**
IPRG	VII	15 02 17 38.4±1.05	33.7N	35.6E	2±3.2	2.2L	**¶97vii2236**
JSO	VII	15 02 17 42.1	33.55N	35.49E	2	3.3L	
ISC	**VII**	**22 23 40 06**±1.2	**33.91N**±.062	**36.1E**±.13	**0**		**15 0-4**
IPRG	VII	22 23 40 06.2±.65	33.9N	36.1E	0±7.3	3.2L	**¶97vii3453**
ISC	**VII**	**23 17 30 12**±1.2	**33.52N**±.064	**35.5E**±.13	**1**		**9 0-2**
IPRG	VII	23 17 30 11.4±.36	33.5N	35.5E	1±.9	2.2L	**¶97vii3560**
ISC	**VIII**	**04 11 29 46.3**±.64	**33.25N**±.040	**35.68E**±.076	**12**±4.8		**33 0-5**
RYD	VIII	04 11 29 22.1	35.28N	37.05E	37	3.8D	**¶97viii0501**
IPRG	VIII	04 11 29 46.5±.23	33.3N	35.7E	10±2.9	4.0L,4.2b	
NEIC	VIII	04 11 29 46.7	33.21N	35.70E	10		
JSO	VIII	04 11 29 49.9	33.02N	35.42E	7	3.7L	
NEIC	M_L4.0(JER), Single network solution.						
RYD	**IX**	**03 08 51 23.7**	**31.0N**	**37.42E**	**35**	**3.0D**	**¶97ix0403**
ISC	**IX**	**12 07 06 58**±1.1	**36.21N**±.083	**36.1E**±.15	**13**±9.3		**7 0-3**
							¶97ix1780
ISC	**IX**	**22 00 28 07**±1.1	**33.57N**±.062	**35.5E**±.14	**3**±13		**10 0-2**
IPRG	IX	22 00 28 08.0±.40	33.5N	35.6E	1±9.3	2.1L	**¶97ix3192**
RYD	**IX**	**29 12 08 59.1**	**31.5N**	**37.1E**	**38**	**3.1D**	**¶97ix4943**
RYD	**IX**	**29 13 50 20.0**	**31.2N**	**40.1E**	**35**	**3.3D**	**¶97ix4960**
ISC	**X**	**02 03 58 48.6**±.99	**36.13N**±.095	**36.1E**±.14	**20**±9.6		**9 0-3**
ISK	X	02 03 58 45.1	35.79N	36.23E	10	3.7D	**¶97x0199**
ISK	**X**	**27 18 13 12.3**	**36.29N**	**36.09E**	**33**	**3.1D**	**¶97x4643**
ISC	**X**	**30 17 34 20.5**±.42	**34.97N**±.030	**35.15E**±.049	**35**±6.2	**4.1b**	**75 1-85**
NEIC	X	30 17 34 17.5	34.92N	35.15E	15	4.2b	**¶97x5073**
ISK	X	30 17 34 19.8	35.12N	35.15E	10	4.2D	
IPRG	X	30 17 34 21.8±.35	35.0N	35.2E	25±9.4	4.2L,4.3b	
EIDC	X	30 17 34 22.4	35.0N	35.2E	33	4.0b,3.8L	
RYD	**XI**	**11 12 08 43.7**	**31.29N**	**37.32E**	**35**	**3.0D**	**¶97xi1783**
RYD	**XI**	**22 12 18 55.7**	**31.37N**	**37.7E**	**35**	**3.0D**	**¶97xi3870**
RYD	**XI**	**29 12 11 12.5**	**31.32N**	**37.34E**	**34**	**3.0D**	**¶97xi5263**
RYD	**XII**	**04 12 10 34.3**	**31.72N**	**38.35E**	**3**	**3.0D**	**¶97xii0608**
RYD	**XII**	**07 09 49 25.4**	**31.81N**	**37.5E**	**4**	**3.0D**	**¶97xii1671**
ISC	**XII**	**12 15 18 54**±9.5	**33.3N**±.34	**35.9E**±.53	**1**		**5 0-1**
IPRG	XII	12 15 18 54.6	33.2N	35.9E	1		**¶97xii2771**
ISC	**XII**	**14 13 45 04**±4.8	**33.7N**±.19	**36.7E**±.33	**1**		**7 1-2**
IPRG	XII	14 13 45 03.0±.54	33.8N	36.7E	1	2.1L	**¶97xii3156**
RYD	**XII**	**25 12 13 15.6**	**33.18N**	**35.76E**	**35**	**3.0D**	**¶97xii4926**

(375) Iraq.

ISC	**XII**	**09 03 16 13.1**±.53	**36.95N**±.039	**42.77E**±.024	**42**±4.9	**4.7b,4.3s**	**253 2-132**
ISK	XII	09 03 16 08.5	36.89N	42.71E	33	4.5D	**¶97xii2087**
MOS	XII	09 03 16 11.0	36.7N	42.8E	33	5.2b,4.3s	
BJI	XII	09 03 16 11.5	36.96N	42.47E	46	5.1b,5.4s	
NEIC	XII	09 03 16 11.8	36.97N	42.82E	33	4.7b,4.1s	
EIDC	XII	09 03 16 17.0±3.18	37.1N	42.8E	58±29.9	4.4b,4.2s	
EIDC	Error ellipse is semi−major=14.8km semi−minor=12.6km azimuth=169						

SEISMIC REGION 31.
WESTERN MEDITERRANEAN AREA.

(376) Portugal.

ISC	**VII**	**01 09 39 42.3**±.96	**37.28N**±.075	**8.55W**±.075	**0**		**6 0-0**
LIS	VII	01 09 39 42	37.32N	8.58W		0.7L	**¶97vii0059**
LIS	**VII**	**02 12 08 19**	**38.41N**	**8.05W**		**1.7L**	**¶97vii0236**
ISC	**VII**	**02 19 03 59**±8.5	**37.0N**±.49	**9.9W**±.58	**0**		**6 1-2**
LIS	VII	02 19 04 10	37.10N	9.28W		2.0L	**¶97vii0287**
LIS	**VII**	**04 15 54 30**	**37.10N**	**9.15W**		**2.0L**	**¶97vii0588**
ISC	**VII**	**05 20 50 17**±1.3	**37.36N**±.090	**8.7W**±.12	**19**±15		**9 0-1**
LIS	VII	05 20 50 17	37.32N	8.67W		2.7L	**¶97vii0788**
LIS	**VII**	**07 04 24 59**	**37.45N**	**7.13W**		**1.7L**	**¶97vii0988**
ISC	**VII**	**07 21 17 57**±1.2	**37.16N**±.097	**8.55W**±.076	**0**		**6 0-0**
LIS	VII	07 21 17 57	37.17N	8.57W		0.9L	**¶97vii1093**
LIS	**VII**	**11 10 57 31**	**37.12N**	**8.08W**		**1.3L**	**¶97vii1678**
LIS	**VII**	**13 13 50 41**	**37.35N**	**8.52W**			**¶97vii1974**
ISC	**VII**	**18 04 05 40.5**±.70	**38.17N**±.045	**8.27W**±.084	**2**		**14 0-3**
LIS	VII	18 04 05 40	38.23N	8.28W		2.1L	**¶97vii2690**
MDD	VII	18 04 05 40.8	38.22N	8.30W	2	3.1	
ISC	**VII**	**18 15 57 36**±1.2	**37.16N**±.099	**8.48W**±.073	**0**		**6 0-0**
LIS	VII	18 15 57 36	37.13N	8.48W		1.0L	**¶97vii2763**
ISC	**VII**	**19 10 46 12.7**±.83	**37.47N**±.044	**7.03W**±.038	**14**±7.8		**33 0-4**
NEIC	VII	19 10 46 08.5	37.37N	7.32W	10		**¶97vii2859**
LIS	VII	19 10 46 14	37.40N	7.05W	12	3.4L	
MDD	VII	19 10 46 14.1	37.44N	7.05W	12	3.4	
NEIC	mbLg3.4(MDD), Single network solution.						
NEIC	Felt I=III MM in the epicentral area.						
MDD	Felt I=III MSK at south Bartolome Torre						
ISC	**VII**	**22 16 57 10**±2.0	**37.1N**±.15	**8.55W**±.081	**0**		**6 0-0**
LIS	VII	22 16 57 09	37.05N	8.57W		1.0L	**¶97vii3398**
ISC	**VII**	**24 15 01 01**±6.5	**38.4N**±.35	**9.2W**±.52	**0**		**7 1-2**
LIS	VII	24 15 01 13	37.90N	8.83W		1.1L	**¶97vii3685**
ISC	**VII**	**26 11 11 51.2**±.89	**41.51N**±.067	**6.8W**±.12	**0**		**7 0-2**
LIS	VII	26 11 11 53	41.35N	6.78W		2.2L	**¶97vii3956**
MDD	VII	26 11 11 53.3	41.49N	6.75W		2.9	
ISC	**VII**	**27 22 05 52**±1.1	**37.19N**±.087	**7.96W**±.086	**0**		**7 0-1**
LIS	VII	27 22 05 51	37.23N	7.87W		0.8L	**¶97vii4171**
LIS	**VII**	**29 18 52 55**	**38.13N**	**9.35W**		**1.6L**	**¶97vii4467**
ISC	**VII**	**31 15 36 54**±1.3	**37.2N**±.12	**8.6W**±.10	**0**		**5 0-0**
LIS	VII	31 15 36 54	37.22N	8.65W		0.9L	**¶97vii4752**
ISC	Poorly determined						
LIS	**VIII**	**01 09 48 17**	**37.73N**	**8.37W**		**1.1L**	**¶97viii0043**
ISC	**VIII**	**03 10 44 47**±1.6	**38.4N**±.10	**7.9W**±.13	**12**		**10 0-1**
MDD	VIII	03 10 44 48.4	38.34N	7.96W	12	2.7	**¶97viii0353**
LIS	VIII	03 10 44 49	38.33N	8.05W		1.7L	
ISC	**VIII**	**06 13 13 22**±1.2	**38.74N**±.097	**7.7W**±.14	**2**		**4 1-2**
LIS	VIII	06 13 12 23	38.75N	7.70W		1.9L	**¶97viii0801**
MDD	VIII	06 13 13 23.3	38.75N	7.70W	2	2.8	
ISC	Poorly determined						
LIS	**VIII**	**06 19 55 43**	**37.38N**	**7.45W**		**1.8L**	**¶97viii0835**
ISC	**VIII**	**07 08 26 45**±1.4	**37.2N**±.19	**7.6W**±.11	**11**±13		**9 0-1**
LIS	VIII	07 08 26 45	37.18N	7.53W	10	1.5L	**¶97viii0909**
MDD	VIII	07 08 26 45.2	37.17N	7.53W	9	3.1	
ISC	**VIII**	**08 01 14 08**±1.0	**37.27N**±.078	**8.55W**±.086	**0**		**5 0-0**
LIS	VIII	08 01 14 08	37.30N	8.58W		0.2L	**¶97viii1034**
LIS	**VIII**	**11 12 51 12**	**38.70N**	**7.43W**		**1.9L**	**¶97viii1565**
MDD	VIII	11 12 51 12.5	38.67N	7.62W		2.8	
ISC	**VIII**	**11 17 21 23**±4.0	**37.1N**±.23	**8.5W**±.20	**0**		**6 0-0**
LIS	VIII	11 17 21 23	37.15N	8.47W		0.9L	**¶97viii1595**
ISC	**VIII**	**14 11 10 51**±1.3	**37.36N**±.081	**8.7W**±.13	**0**		**4 0-0**
LIS	VIII	14 11 10 51	37.35N	8.67W		0.5L	**¶97viii2047**
ISC	Poorly determined						
ISC	**VIII**	**15 00 10 51**±1.4	**37.2N**±.10	**8.6W**±.11	**0**		**4 0-0**
LIS	VIII	15 00 10 51	37.18N	8.57W			**¶97viii2135**
ISC	Poorly determined						
ISC	**VIII**	**19 20 17 44**±10	**38.2N**±.40	**9.3W**±.70	**0**		**5 1-1**
LIS	VIII	19 20 17 53	37.88N	8.93W		1.5L	**¶97viii2867**
ISC	Poorly determined						
ISC	**VIII**	**20 06 11 02**±1.3	**38.21N**±.069	**8.05W**±.095	**1**±14		**12 0-2**
LIS	VIII	20 06 11 03	38.22N	8.05W	3	2.0L	**¶97viii2920**
MDD	VIII	20 06 11 03.2	38.22N	8.05W	3	3.0	
LIS	**VIII**	**20 21 38 35**	**37.25N**	**8.92W**		**1.3L**	**¶97viii3019**
ISC	**VIII**	**22 15 25 58**±9.3	**37.9N**±.54	**8.4W**±.22	**10**		**8 0-1**
LIS	VIII	22 15 25 59	37.87N	8.40W		1.7L	**¶97viii3245**
MDD	VIII	22 15 25 59.2	37.88N	8.38W	10	2.9	
ISC	**VIII**	**22 19 41 04**±2.3	**37.4N**±.12	**8.6W**±.12	**20**±26		**7 0-1**
LIS	VIII	22 19 41 04	37.37N	8.58W	19	1.6L	**¶97viii3273**
MDD	VIII	22 19 41 04.3	37.36N	8.58W	17	3.0	
ISC	**VIII**	**27 01 50 13**±13	**38.2N**±.67	**7.9W**±.44	**0**		**7 0-1**
LIS	VIII	27 01 50 15	38.22N	7.85W		1.8L	**¶97viii3926**
ISC	**VIII**	**27 07 53 04**±18	**38.1N**±.82	**8.9W**±.76	**0**		**6 1-1**
LIS	VIII	27 07 53 11	37.87N	8.78W		1.4L	**¶97viii3956**
ISC	Poorly determined						
ISC	**VIII**	**27 14 39 13**±3.3	**39.6N**±.11	**8.8W**±.37	**3**		**9 1-2**
LIS	VIII	27 14 39 15	39.62N	8.75W		2.3L	**¶97viii4004**
MDD	VIII	27 14 39 15.1	39.63N	8.76W	3	2.6	
ISC	**VIII**	**29 20 24 58**±1.0	**37.33N**±.080	**8.45W**±.082	**0**		**5 0-0**
LIS	VIII	29 20 24 58	37.33N	8.47W		1.1L	**¶97viii4375**
ISC	**IX**	**01 21 41 26**±1.3	**37.3N**±.10	**8.5W**±.14	**9**		**4 0-0**
LIS	IX	01 21 41 26.2	37.33N	8.48W	9	0.7L	**¶97ix0169**
ISC	Poorly determined						
ISC	**IX**	**02 15 24 20**±1.3	**37.1N**±.14	**8.5W**±.10	**21**		**6 0-0**
LIS	IX	02 15 24 20.3	37.10N	8.45W	21	1.1L	**¶97ix0293**
LIS	**IX**	**03 16 45 22**	**38.35N**	**9.47W**		**2.2L**	**¶97ix0449**
ISC	**IX**	**04 07 33 04**±1.1	**37.96N**±.037	**9.3W**±.12	**27**		**71 1-14**
NEIC	IX	04 07 33 04.0	38.07N	9.10W	10		**¶97ix0563**
MDD	IX	04 07 33 05.3	37.82N	9.41W	27	3.7	
LDG	IX	04 07 33 05.6	38.1N	9.5W		4.1L	
LIS	IX	04 07 33 06	37.83N	9.38W		3.7L	
NEIC	mbLg3.7(MDD).						
ISC	**IX**	**04 10 43 54**±1.5	**37.2N**±.11	**8.5W**±.10	**0**		**5 0-0**
LIS	IX	04 10 43 53.2	37.13N	8.40W		1.0L	**¶97ix0578**
ISC	Poorly determined						
ISC	**IX**	**05 12 20 53**±2.4	**37.2N**±.14	**8.37W**±.099	**25**±24		**7 0-0**
LIS	IX	05 12 20 53	37.20N	8.37W	24	1.5L	**¶97ix0745**
ISC	**IX**	**08 09 38 13**±3.8	**39.9N**±.18	**8.5W**±.48	**0**		**4 1-2**
LIS	IX	08 09 38 14	39.93N	8.77W			**¶97ix1203**
MDD	IX	08 09 38 16.1	39.85N	8.44W		2.8	
ISC	Poorly determined						
ISC	**IX**	**08 19 56 45**±1.4	**38.50N**±.085	**8.0W**±.15	**0**		**4 0-1**
LIS	IX	08 19 56 46	38.48N	8.07W		1.5L	**¶97ix1272**
ISC	Poorly determined						
ISC	**IX**	**09 14 00 31**±1.5	**37.2N**±.12	**8.47W**±.099	**0**		**4 0-0**
LIS	IX	09 14 00 31	37.15N	8.45W		1.2L	**¶97ix1386**
ISC	Poorly determined						
LIS	**IX**	**09 15 21 13**	**39.68N**	**8.87W**		**2.4L**	**¶97ix1400**
LIS	**IX**	**10 16 12 07.3**	**38.20N**	**8.83W**		**1.6L**	**¶97ix1545**
ISC	**IX**	**11 08 45 54**±1.2	**37.2N**±.11	**8.47W**±.080	**10**		**6 0-0**
LIS	IX	11 08 45 55	37.18N	8.47W	10	1.0L	**¶97ix1652**
ISC	**IX**	**11 19 54 01**±1.8	**37.3N**±.11	**8.7W**±.13	**28**±13		**10 0-2**
MDD	IX	11 19 54 01.7	37.26N	8.65W	25	3.1	**¶97ix1726**
LIS	IX	11 19 54 02	37.27N	8.65W	2	2.1L	

Agency	mo	d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**IX**	**15**	**15**	**13**	**46±3.4**	**41.5N±.15**	**8.8W±.39**	**4**		**6**	**1-2**
MDD	IX	15	15	13	47.6	41.54N	8.80W	4	2.8		¶97ix2258
LIS	IX	15	15	13	49	41.48N	8.75W		2.2L		
ISC	Poorly determined										
ISC	**IX**	**16**	**00**	**23**	**54±1.6**	**41.43N±.069**	**8.9W±.21**	**43±54**		**21**	**1-5**
MDD	IX	16	00	23	54.1	41.48N	8.81W	10	3.4		¶97ix2300
LIS	IX	16	00	23	54.2	41.48N	8.78W	4	2.9L		
MDD	Felt I=II at Agucadoura Port										
ISC	**IX**	**18**	**06**	**36**	**02±3.1**	**37.3N±.11**	**8.6W±.11**	**13±30**		**6**	**0-0**
LIS	IX	18	06	36	02	37.28N	8.57W	10	0.7L		¶97ix2625
ISC	**IX**	**18**	**12**	**28**	**16±1.1**	**40.96N±.073**	**7.3W±.14**	**11±16**		**8**	**0-2**
MDD	IX	18	12	28	18.7	41.11N	7.21W	8	2.5		¶97ix2653
LIS	IX	18	12	28	19	41.10N	7.22W		1.7L		
LIS	**IX**	**19**	**15**	**43**	**34**	**39.92N**	**8.62W**		**1.9L**		¶97ix2810
ISC	**IX**	**22**	**10**	**52**	**40±1.8**	**37.4N±.14**	**8.6W±.17**	**0**		**5**	**0-0**
LIS	IX	22	10	52	40.5	37.35N	8.60W				¶97ix3268
ISC	Poorly determined										
ISC	**IX**	**22**	**12**	**47**	**21±1.4**	**37.3N±.10**	**8.6W±.11**	**0**		**6**	**0-0**
LIS	IX	22	12	47	21	37.30N	8.60W		0.8L		¶97ix3280
ISC	Poorly determined										
ISC	**IX**	**22**	**16**	**29**	**14±2.7**	**41.55N±.077**	**6.7W±.14**	**2±24**		**8**	**0-3**
MDD	IX	22	16	29	16.2	41.53N	6.74W	6	3.3		¶97ix3304
ISC	**IX**	**23**	**15**	**14**	**15±1.7**	**37.88N±.052**	**9.3W±.18**	**26**		**23**	**1-6**
LIS	IX	23	15	14	15.8	37.75N	9.42W		2.5L		¶97ix3441
MDD	IX	23	15	14	16.3	37.81N	9.34W	26	2.9		
ISC	**IX**	**24**	**11**	**17**	**09±1.1**	**37.2N±.11**	**8.08W±.076**	**0**		**6**	**0-0**
LIS	IX	24	11	17	09	37.20N	8.08W		1.2L		¶97ix3571
ISC	**IX**	**25**	**01**	**41**	**42±5.1**	**41.2N±.18**	**8.8W±.42**	**0**		**5**	**1-2**
LIS	IX	25	01	41	45.6	41.20N	8.62W		1.7L		¶97ix3661
ISC	Poorly determined										
ISC	**IX**	**25**	**02**	**22**	**24±1.3**	**37.3N±.22**	**7.5W±.13**	**6±17**		**9**	**0-1**
LIS	IX	25	02	22	24.3	37.25N	7.40W		1.7L		¶97ix3664
MDD	IX	25	02	22	24.5	37.26N	7.42W		2.7		
ISC	**IX**	**25**	**14**	**53**	**47±4.4**	**37.1N±.24**	**8.5W±.22**	**0**		**5**	**0-0**
LIS	IX	25	14	53	46	37.10N	8.55W		1.5L		¶97ix3751
ISC	**IX**	**25**	**17**	**34**	**39±3.8**	**37.2N±.11**	**8.6W±.11**	**10±47**		**5**	**0-0**
LIS	IX	25	17	34	40	37.22N	8.55W	2	0.7L		¶97ix3768
ISC	Poorly determined										
ISC	**IX**	**26**	**07**	**50**	**24±3.3**	**37.0N±.22**	**8.6W±.11**	**0**		**6**	**0-1**
LIS	IX	26	07	50	22	36.92N	8.77W		1.3L		¶97ix3917
ISC	**IX**	**27**	**07**	**14**	**55±1.7**	**37.1N±.19**	**8.14W±.094**	**28±13**		**9**	**0-1**
MDD	IX	27	07	14	56.0	37.12N	8.13W	20	3.0		¶97ix4285
LIS	IX	27	07	14	56.4	37.10N	8.13W		2.0L		
ISC	**IX**	**27**	**17**	**24**	**35±4.6**	**37.9N±.31**	**9.9W±.37**	**0**		**8**	**1-2**
LIS	IX	27	17	24	45	37.72N	9.42W		1.8L		¶97ix4420
ISC	**IX**	**28**	**18**	**17**	**03±1.1**	**41.71N±.068**	**7.7W±.10**	**19±14**		**11**	**1-4**
NEIC	IX	28	18	17	01.7	41.67N	7.69W	10			¶97ix4725
LIS	IX	28	18	17	02.4	41.68N	7.73W		2.1L		
MDD	IX	28	18	17	02.7	41.70N	7.73W	4	2.8		
NEIC	mbLg2.8(MDD).										
ISC	**IX**	**30**	**09**	**28**	**21.9±.85**	**37.22N±.069**	**8.37W±.066**	**0**		**7**	**0-0**
LIS	IX	30	09	28	21	37.23N	8.35W		0.9L		¶97ix5188
ISC	**IX**	**30**	**16**	**55**	**31±1.3**	**37.26N±.091**	**8.6W±.10**	**19±14**		**9**	**0-2**
LIS	IX	30	16	55	31.1	37.25N	8.62W		1.5L		¶97ix5279
MDD	IX	30	16	55	32.0	37.25N	8.61W	12	3.1		
ISC	**X**	**01**	**17**	**29**	**12±1.3**	**37.74N±.058**	**8.7W±.14**	**7±16**		**10**	**0-2**
LIS	X	01	17	29	12	37.70N	8.39W		1.8L		¶97x0127
MDD	X	01	17	29	12.8	37.72N	8.65W	6	2.8		
ISC	**X**	**01**	**21**	**56**	**20±3.9**	**37.0N±.24**	**8.5W±.12**	**0**		**6**	**0-1**
LIS	X	01	21	56	18	36.93N	8.38W		0.8L		¶97x0160
ISC	**X**	**02**	**15**	**41**	**22±1.1**	**37.65N±.059**	**9.0W±.13**	**27±7.5**		**40**	**0-7**
LIS	X	02	15	41	22	37.53N	9.10W		3.3L		¶97x0307
NEIC	X	02	15	41	22.8	37.82N	8.78W	10			
MDD	X	02	15	41	23.0	37.57N	9.06W	19	3.4		
NEIC	mbLg3.2(MDD), Single network solution.										
ISC	**X**	**02**	**15**	**43**	**59±1.9**	**37.60N±.088**	**9.0W±.20**	**25±11**		**18**	**0-4**
LIS	X	02	15	43	59	37.53N	9.08W		2.4L		¶97x0309
MDD	X	02	15	43	59.1	37.57N	9.11W	15	3.0		
ISC	**X**	**02**	**20**	**51**	**42±3.1**	**37.2N±.47**	**7.3W±.24**	**12±23**		**7**	**0-1**
MDD	X	02	20	51	43.3	37.22N	7.31W	10	2.7		¶97x0345
LIS	X	02	20	51	44	37.20N	7.37W		1.5L		
LIS	**X**	**03**	**08**	**11**	**49**	**39.92N**	**8.55W**		**1.5L**		¶97x0421
LIS	**X**	**03**	**14**	**55**	**19**	**37.58N**	**9.08W**		**1.7L**		¶97x0480
LIS	**X**	**07**	**11**	**06**	**36**	**39.47N**	**8.92W**		**1.6L**		¶97x1235
ISC	**X**	**08**	**05**	**21**	**02±4.8**	**37.1N±.25**	**8.4W±.21**	**0**		**5**	**0-1**
LIS	X	08	05	20	56	36.78N	8.08W		1.7L		¶97x1354
ISC	**X**	**09**	**18**	**34**	**43±1.0**	**37.24N±.083**	**8.39W±.091**	**0**		**5**	**0-0**
LIS	X	09	18	34	43	37.18N	8.42W		1.1L		¶97x1622
ISC	**X**	**16**	**09**	**07**	**28.1±.81**	**37.33N±.067**	**8.45W±.087**	**11±11**		**9**	**0-1**
LIS	X	16	09	07	28	37.33N	8.47W	13	1.7L		¶97x2814
MDD	X	16	09	07	28.5	37.33N	8.47W	13	3.0		
ISC	**X**	**20**	**14**	**49**	**53±1.2**	**37.29N±.089**	**8.5W±.11**	**0**		**4**	**0-0**
LIS	X	20	14	49	53	37.32N	8.57W		1.1L		¶97x3519
ISC	Poorly determined										
ISC	**X**	**24**	**10**	**08**	**00±2.3**	**39.9N±.10**	**8.5W±.26**	**0**		**5**	**1-2**
LIS	X	24	10	08	01	39.92N	8.55W		1.6L		¶97x4145
ISC	Poorly determined										
LIS	**X**	**25**	**17**	**30**	**53**	**37.28N**	**8.58W**		**0.7L**		¶97x4349
LIS	**XI**	**01**	**21**	**38**	**24**	**38.88N**	**8.00W**		**1.5L**		¶97xi0143
ISC	**XI**	**10**	**17**	**41**	**27.4±.96**	**40.08N±.047**	**8.9W±.11**	**6**		**25**	**1-5**
MDD	XI	10	17	41	28.8	40.1N	8.9W	6	3.0b		¶97xi1651
LIS	XI	10	17	41	30	40.08N	8.92W		2.8L		
ISC	**XI**	**30**	**19**	**41**	**42.2±.93**	**38.83N±.083**	**8.82W±.097**	**16**		**21**	**0-5**
LIS	XI	30	19	41	42	38.88N	9.47W		2.6L		¶97xi5453
MDD	XI	30	19	41	42.6	38.7N	8.9W	16	2.7b		
ISC	**XII**	**15**	**03**	**21**	**27.4±.93**	**37.48N±.056**	**7.75W±.087**	**0**		**26**	**0-4**
LIS	XII	15	03	21	27	37.32N	7.57W				¶97xii3237
MDD	XII	15	03	21	28.7	37.4N	7.8W	0	2.3b		
ISC	**XII**	**21**	**23**	**38**	**40±2.0**	**41.33N±.076**	**7.3W±.14**	**0±14**		**13**	**0-5**
MDD	XII	21	23	38	43.1	41.3N	7.3W	4	2.7b		¶97xii4321
ISC	**XII**	**23**	**07**	**03**	**19.4±.78**	**40.99N±.056**	**7.91W±.091**	**20±11**		**20**	**0-5**
LIS	XII	23	07	03	20	41N	7.85W	1	2.2L		¶97xii4559
MDD	XII	23	07	03	20.1	41.0N	7.9W	8	2.7b		

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ISC	**VII**	**02**	**02**	**58**	**21.9±.67**	**37.18N±.062**	**3.69W±.057**	**10**		**11**	**0-2**
NEIC	VII	02	02	58	21.7	37.17N	3.70W	10			¶97vii0172
MDD	VII	02	02	58	22.7	37.20N	3.69W	2	2.6		
NEIC	mbLg2.4(MDD), Single network solution.										
ISC	**VII**	**02**	**23**	**43**	**52.5±.98**	**42.79N±.070**	**7.1W±.11**	**21±14**		**10**	**0-3**
NEIC	VII	02	23	43	51.5	42.78N	7.08W	10			¶97vii0324
LIS	VII	02	23	43	53	42.77N	7.15W		2.7L		
MDD	VII	02	23	43	53.2	42.77N	7.16W	10	3.3		
NEIC	mbLg3.3(MDD), Single network solution.										
MDD	Felt I=II MSK at Sarria−Becerrea										
ISC	**VII**	**03**	**19**	**09**	**46.7±.80**	**37.22N±.094**	**3.73W±.077**	**13±11**		**9**	**0-2**
NEIC	VII	03	19	09	46.5	37.25N	3.72W	10			¶97vii0440
MDD	VII	03	19	09	47.4	37.22N	3.66W	16	2.3		
NEIC	mbLg2.3(MDD), Single network solution.										
ISC	**VII**	**05**	**22**	**33**	**10.6±.98**	**37.18N±.082**	**3.72W±.087**	**5±15**		**7**	**0-2**
NEIC	VII	05	22	33	10.6	37.17N	3.73W	10			¶97vii0801
MDD	VII	05	22	33	11.4	37.17N	3.71W	4	2.6		
NEIC	mbLg2.3(MDD), Single network solution.										
ISC	**VII**	**07**	**20**	**49**	**47±1.9**	**42.79N±.093**	**7.2W±.24**	**12**		**4**	**0-1**
MDD	VII	07	20	49	47.7	42.76N	7.19W	12	3.3		¶97vii1090
ISC	Poorly determined										
ISC	**VII**	**08**	**04**	**21**	**36±1.9**	**42.82N±.093**	**7.2W±.24**	**10**		**4**	**0-1**
NEIC	VII	08	04	21	35.6	42.83N	7.15W	10			¶97vii1139
MDD	VII	08	04	21	36.9	42.82N	7.22W	5	3.1		
ISC	Poorly determined										
NEIC	mbLg3.1(MDD). Poor solution.										
MDD	Felt I=II MSK at Sarria−Becerrea										
ISC	**VII**	**08**	**17**	**41**	**11±1.7**	**39.49N±.089**	**2.2W±.35**	**13**		**4**	**1-2**
MDD	VII	08	17	41	12.5	39.48N	2.30W	13	2.8		¶97vii1214
ISC	Poorly determined										
MDD	**VII**	**10**	**04**	**16**	**32.5**	**42.81N**	**7.25W**	**20**	**2.8**		¶97vii1448
ISC	**VII**	**10**	**19**	**57**	**33±1.2**	**37.74N±.092**	**3.9W±.12**	**12±16**		**5**	**0-1**
NEIC	VII	10	19	57	33.3	37.74N	3.86W	10			¶97vii1555
MDD	VII	10	19	57	34.3	37.76N	3.89W	11	2.4		
ISC	Poorly determined										
NEIC	mbLg2.3(MDD), Single network solution.										
ISC	**VII**	**11**	**00**	**54**	**33±2.1**	**37.1N±.16**	**1.9W±.20**	**9±17**		**10**	**0-3**
NEIC	VII	11	00	54	33.4	37.17N	1.92W	5			¶97vii1600
MDD	VII	11	00	54	34.4	37.14N	1.92W	3	2.8		
NEIC	mbLg3.0(MDD).										
MDD	**VII**	**12**	**01**	**17**	**08.2**	**42.81N**	**7.22W**	**12**	**2.8**		¶97vii1755
ISC	**VII**	**12**	**02**	**44**	**47±1.1**	**37.60N±.081**	**3.5W±.11**	**26±20**		**7**	**0-1**
NEIC	VII	12	02	44	46.9	37.63N	3.55W	10			¶97vii1765
MDD	VII	12	02	44	48.1	37.61N	3.52W	26	2.6		
NEIC	mbLg2.4(MDD), Single network solution.										
MDD	**VII**	**12**	**09**	**53**	**26.2**	**43.15N**	**7.21W**	**12**	**2.8**		¶97vii1800
ISC	**VII**	**12**	**23**	**43**	**11±4.6**	**37.0N±.26**	**4.0W±.24**	**40±54**		**6**	**0-1**
MDD	VII	12	23	43	11.9	37.07N	3.96W	37	2.4		¶97vii1889
NEIC	VII	12	23	43	12.3	37.16N	3.86W	10			
NEIC	mbLg2.1(MDD), Less reliable solution.										
ISC	**VII**	**13**	**10**	**35**	**19±1.1**	**37.20N±.077**	**3.75W±.089**	**15±10**		**9**	**0-2**
NEIC	VII	13	10	35	18.5	37.22N	3.76W	10			¶97vii1958
MDD	VII	13	10	35	19.1	37.18N	3.74W	12	2.5		
NEIC	mbLg2.4(MDD), Single network solution.										
MDD	**VII**	**13**	**23**	**46**	**42.7**	**42.81N**	**7.18W**	**16**	**2.7**		¶97vii2040
MDD	**VII**	**14**	**00**	**18**	**42.7**	**42.78N**	**7.18W**	**14**	**2.7**		¶97vii2048
ISC	**VII**	**14**	**11**	**53**	**43±2.3**	**37.3N±.13**	**2.1W±.31**	**45**		**4**	**0-2**
MDD	VII	14	11	53	43.4	37.25N	2.03W	45	2.9		¶97vii2122
ISC	Poorly determined										
ISC	**VII**	**15**	**05**	**00**	**59±2.8**	**44.0N±.14**	**3.3W±.27**	**5**		**13**	**2-6**
NEIC	VII	15	05	01	00.1	44.04N	3.23W	5			¶97vii2257
LDG	VII	15	05	01	02.7	44.0N	3.2W		2.6L		
NEIC	Single network solution.										
ISC	**VII**	**15**	**12**	**24**	**00±1.7**	**37.2N±.16**	**3.8W±.11**	**0**		**4**	**0-0**
MDD	VII	15	12	24	00.2	37.23N	3.71W		2.2		¶97vii2302
ISC	Poorly determined										
ISC	**VII**	**15**	**13**	**13**	**34±1.3**	**37.01N±.094**	**3.73W±.094**	**5±18**		**6**	**0-1**
NEIC	VII	15	13	13	33.9	37.00N	3.74W	10			¶97vii2308
MDD	VII	15	13	13	34.6	36.98N	3.75W	5	2.5		
NEIC	mbLg2.6(MDD), Single network solution.										
ISC	**VII**	**15**	**22**	**54**	**08±2.5**	**43.56N±.062**	**2.8W±.13**	**12±19**		**15**	**1-5**
LDG	VII	15	22	54	09.4	43.5N	2.8W		2.5L		¶97vii2364
NEIC	VII	15	22	54	09.7	43.75N	2.52W	5			
MDD	VII	15	22	54	09.9	43.51N	2.77W	12	2.8		
NEIC	Single network solution.										
ISC	**VII**	**17**	**04**	**31**	**45±2.7**	**39.0N±.13**	**2.8W±.12**	**5±31**		**6**	**0-2**
NEIC	VII	17	04	31	45.4	38.97N	2.77W	10			¶97vii2546
MDD	VII	17	04	31	45.9	38.99N	2.84W	3	2.9		
NEIC	mbLg2.8(MDD), Poor solution.										
ISC	**VII**	**17**	**23**	**33**	**53±1.3**	**38.8N±.11**	**3.1W±.12**	**2**		**4**	**0-2**
NEIC	VII	17	23	33	53.2	38.84N	3.01W	10			¶97vii2661
MDD	VII	17	23	33	54.2	38.86N	3.03W	2	3.1		
ISC	Poorly determined										
NEIC	mbLg2.9(MDD), Poor solution.										
ISC	**VII**	**19**	**07**	**32**	**40±1.2**	**37.2N±.10**	**3.71W±.098**	**10**		**5**	**0-0**
NEIC	VII	19	07	32	39.5	37.20N	3.71W	10			¶97vii2842
MDD	VII	19	07	32	40.1	37.21N	3.70W	9	2.4		
NEIC	mbLg2.1(MDD), Single network solution.										
ISC	**VII**	**19**	**12**	**04**	**08±1.6**	**42.81N±.091**	**7.3W±.18**	**10**		**4**	**0-1**
NEIC	VII	19	12	04	08.0	42.81N	7.28W	10			¶97vii2869
MDD	VII	19	12	04	08.4	42.80N	7.21W	16	3.3		
ISC	Poorly determined										
NEIC	mbLg3.2(MDD), Poor solution.										
ISC	**VII**	**19**	**12**	**30**	**23±1.1**	**37.7N±.28**	**6.5W±.13**	**11**		**10**	**0-2**
MDD	VII	19	12	30	24.5	37.74N	6.51W	11	2.9		¶97vii2874
LIS	VII	19	12	30	25	37.85N	6.70W		2.2L		
ISC	**VII**	**20**	**02**	**54**	**45±2.2**	**39.4N±.12**	**0.3E±.25**	**10**		**6**	**1-2**
NEIC	VII	20	02	54	44.9	39.39N	0.29E	10			¶97vii2991
MDD	VII	20	02	54	45.9	39.42N	0.26E		3.0		
NEIC	mbLg3.0(MDD), Poor solution.										
ISC	**VII**	**24**	**03**	**50**	**38.6±.96**	**37.1N±.10**	**3.9W±.10**	**9±16**		**6**	**0-1**
NEIC	VII	24	03	50	38.5	37.12N	3.85W	10			¶97vii3608
MDD	VII	24	03	50	39.7	37.13N	3.85W	5	2.3		
NEIC	mbLg2.4(MDD), Single network solution.										
ISC	**VII**	**24**	**08**	**17**	**49±1.8**	**39.32N±.094**	**0.1E±.20**	**18**		**6**	**1-3**
NEIC	VII	24	08	17	47.8	39.32N	0.08E	10			¶97vii3645
MDD	VII	24	08	17	49.5	39.32N	0.11E	18	3.0		
NEIC	mbLg3.2(MDD), Single network solution.										
ISC	**VII**	**24**	**15**	**31**	**32±1.2**	**37.23N±.088**	**2.4W±.13**	**10**		**6**	**0-1**
NEIC	VII	24	15	31	31.7	37.23N	2.36W	10			¶97vii3691
MDD	VII	24	15	31	32.4	37.14N	2.13W	30	2.7		
NEIC	mbLg2.5(MDD), Single network solution.										

ISC	**VII**	**25 01 39 39**±1.2	**37.08N**±.098	**3.8W**±.12	**10**		**4**	**0-0**	
NEIC	VII	25 01 39 39.3	37.08N	3.76W	10				¶97vii3752
MDD	VII	25 01 39 39.7	37.09N	3.78W	12	2.0			
ISC	Poorly determined								
NEIC	mbLg1.8(MDD), Poor solution.								
ISC	**VII**	**26 08 30 21**±1.0	**37.13N**±.073	**3.6W**±.14	**10**		**5**	**0-1**	
NEIC	VII	26 08 30 21.5	37.12N	3.60W	10				¶97vii3941
MDD	VII	26 08 30 22.4	37.15N	3.62W		2.3			
NEIC	mbLg2.2(MDD), Single network solution.								
ISC	**VII**	**26 08 40 22**±2.4	**37.3N**±.14	**2.9W**±.23	**10**		**4**	**0-1**	
NEIC	VII	26 08 40 21.8	37.27N	2.93W	10				¶97vii3942
MDD	VII	26 08 40 24.1	37.34N	3.01W	9	2.4			
ISC	Poorly determined								
NEIC	mbLg2.2(MDD), Poor solution.								
ISC	**VII**	**27 02 35 39**±1.0	**42.83N**±.078	**7.1W**±.13	**10**		**7**	**0-3**	
NEIC	VII	27 02 35 38.5	42.82N	7.11W	10				¶97vii4047
MDD	VII	27 02 35 40.2	42.83N	7.21W	12	3.0			
NEIC	mbLg3.0(MDD), Single network solution.								
MDD	Felt I=II MSK at Sarria−Becerrea								
ISC	**VII**	**27 12 28 41**±6.2	**37.1N**±.23	**4.4W**±.43	**0**		**4**	**0-1**	
MDD	VII	27 12 28 41.5	37.06N	4.39W		2.2			¶97vii4109
ISC	Poorly determined								
ISC	**VII**	**29 14 40 38.2**±.70	**37.61N**±.096	**6.19W**±.057	**3**		**11**	**0-2**	
MDD	VII	29 14 40 39.2	37.66N	6.20W	3	2.6			¶97vii4443
LIS	VII	29 14 40 40	37.35N	5.93W		2.3L			
ISC	**VII**	**30 01 14 32**±1.1	**37.22N**±.084	**3.85W**±.095	**10**		**5**	**0-0**	
NEIC	VII	30 01 14 32.4	37.22N	3.84W	10				¶97vii4513
MDD	VII	30 01 14 33.2	37.23N	3.80W		2.1			
NEIC	mbLg1.7(MDD), Single network solution.								
ISC	**VII**	**30 15 38 27.5**±.84	**37.12N**±.071	**3.74W**±.086	**6**±12		**8**	**0-2**	
NEIC	VII	30 15 38 27.4	37.10N	3.74W	10				¶97vii4596
MDD	VII	30 15 38 28.3	37.11N	3.72W	8	3.1			
NEIC	mbLg2.9(MDD), Single network solution.								
ISC	**VIII**	**03 08 51 12**±1.6	**39.13N**±.085	**0.6W**±.21	**10**		**7**	**1-3**	
MDD	VIII	03 08 51 11.5	39.20N	0.50W		2.7			¶97viii0338
NEIC	VIII	03 08 51 11.6	39.12N	0.78W	10				
NEIC	mbLg2.7(MDD), Single network solution.								
MDD	**VIII**	**05 11 20 39.9**	**42.84N**	**7.21W**	**3**	**3.0**			¶97viii0660
ISC	**VIII**	**05 13 52 11**±1.5	**42.81N**±.078	**7.2W**±.13	**4**±16		**8**	**0-3**	
MDD	VIII	05 13 52 12.9	42.77N	7.22W	2	3.2			¶97viii0675
MDD	Felt I=II MSK at Sarria−Becerrea								
MDD	**VIII**	**05 13 54 22.4**	**42.76N**	**7.21W**	**9**	**2.9**			¶97viii0676
MDD	**VIII**	**05 19 28 00.0**	**42.76N**	**7.20W**	**11**	**3.0**			¶97viii0699
ISC	**VIII**	**05 22 30 41**±2.2	**42.86N**±.094	**7.1W**±.27	**12**		**4**	**0-1**	
MDD	VIII	05 22 30 43.0	42.81N	7.21W	12	3.1			¶97viii0728
ISC	Poorly determined								
ISC	**VIII**	**06 14 14 54**±2.0	**42.2N**±.13	**6.8W**±.18	**12**±15		**6**	**0-3**	
MDD	VIII	06 14 14 54.8	42.22N	6.93W	9	3.1			¶97viii0806
MDD	**VIII**	**06 20 01 32.4**	**42.77N**	**7.20W**	**11**	**2.7**			¶97viii0837
MDD	Felt I=II MSK at Sarria−Becerrea								
MDD	**VIII**	**06 23 56 51.7**	**38.09N**	**0.65W**	**20**	**2.8**			¶97viii0857
MDD	**VIII**	**07 05 52 37.1**	**42.79N**	**7.22W**	**10**	**3.1**			¶97viii0891
MDD	**VIII**	**07 05 54 23.1**	**42.80N**	**7.22W**	**13**	**3.6**			¶97viii0892
MDD	**VIII**	**07 05 54 48.6**	**42.79N**	**7.22W**	**10**	**3.1**			¶97viii0893
LIS	**VIII**	**07 13 41 41**	**37.83N**	**6.92W**		**1.6L**			¶97viii0948
MDD	**VIII**	**08 12 19 42.4**	**42.83N**	**7.19W**	**26**	**2.4**			¶97viii1117
ISC	**VIII**	**10 12 03 27**±3.5	**37.2N**±.18	**2.6W**±.26	**3**		**6**	**1-1**	
NEIC	VIII	10 12 03 27.4	37.15N	2.59W	10				¶97viii1389
MDD	VIII	10 12 03 29.0	37.21N	2.60W	3	2.7			
NEIC	mbLg2.4(MDD), Single network solution.								
MDD	**VIII**	**11 17 12 16.4**	**42.79N**	**7.23W**	**16**	**3.1**			¶97viii1593
ISC	**VIII**	**11 18 11 27**±1.2	**38.6N**±.11	**1.3W**±.10	**0**		**4**	**1-1**	
MDD	VIII	11 18 11 29.1	38.62N	1.22W		2.4			¶97viii1601
ISC	Poorly determined								
MDD	**VIII**	**11 23 11 11.7**	**42.79N**	**7.22W**	**12**	**3.2**			¶97viii1642
ISC	**VIII**	**15 02 38 43.4**±.79	**37.03N**±.054	**4.15W**±.059	**3**±9.0		**16**	**0-4**	
NEIC	VIII	15 02 38 43.1	37.01N	4.13W	10				¶97viii2151
MDD	VIII	15 02 38 44.5	37.02N	4.18W	1	2.9			
NEIC	mbLg3.1(MDD), Single network solution.								
ISC	**VIII**	**15 02 39 50.7**±.91	**37.00N**±.065	**4.20W**±.083	**10**		**10**	**0-2**	
NEIC	VIII	15 02 39 50.7	37.01N	4.20W	10				¶97viii2152
MDD	VIII	15 02 39 51.4	37.01N	4.18W	4	2.5			
NEIC	mbLg2.1(MDD), Single network solution.								
ISC	**VIII**	**15 11 28 53.8**±.85	**37.50N**±.057	**4.53W**±.055	**1**±10		**13**	**0-3**	
NEIC	VIII	15 11 28 54.2	37.52N	4.53W	10				¶97viii2210
MDD	VIII	15 11 28 55.4	37.50N	4.52W	2	2.6			
NEIC	mbLg2.6(MDD), Single network solution.								
ISC	**VIII**	**15 14 33 33**±1.4	**37.01N**±.098	**4.2W**±.12	**1**±29		**5**	**0-1**	
NEIC	VIII	15 14 33 32.9	36.98N	4.15W	10				¶97viii2231
MDD	VIII	15 14 33 33.9	36.98N	4.17W	8	2.2			
ISC	Poorly determined								
NEIC	mbLg2.1(MDD), Single network solution.								
ISC	**VIII**	**19 16 27 32.6**±.43	**43.23N**±.035	**3.20W**±.055	**10**		**40**	**1-7**	
NEIC	VIII	19 16 27 32.6	43.21N	3.20W	10				¶97viii2836
MDD	VIII	19 16 27 34.0	43.15N	3.14W	3	3.5			
LDG	VIII	19 16 27 35.7	43.2N	3.2W		3.3L			
STR	VIII	19 16 27 38.4	42.90N	2.93W	11	3.7L			
NEIC	Single network solution.								
ISC	**VIII**	**19 17 00 37**±1.1	**42.27N**±.071	**7.99W**±.090	**6**±16		**10**	**1-2**	
LIS	VIII	19 17 00 38	42.23N	8.02W		2.2L			¶97viii2842
MDD	VIII	19 17 00 38.2	42.24N	8.01W	2	3.3			
ISC	**VIII**	**20 05 25 24**±1.1	**37.76N**±.058	**3.6W**±.11	**10**±12		**8**	**0-3**	
NEIC	VIII	20 05 25 23.5	37.76N	3.55W	10				¶97viii2914
MDD	VIII	20 05 25 25.0	37.77N	3.57W	6	2.9			
NEIC	mbLg2.5(MDD), Single network solution.								
MDD	**VIII**	**22 17 14 16.0**	**42.80N**	**7.23W**	**12**	**2.7**			¶97viii3253
ISC	**VIII**	**22 21 47 55**±1.3	**37.27N**±.094	**3.6W**±.10	**54**±18		**15**	**0-3**	
MDD	VIII	22 21 47 56.7	37.27N	3.58W	46	3.2			¶97viii3293
MDD	**VIII**	**23 05 07 09.3**	**42.81N**	**7.23W**	**13**	**2.6**			¶97viii3341
MDD	**VIII**	**23 05 14 05.2**	**42.80N**	**7.22W**	**12**	**2.7**			¶97viii3342
ISC	**VIII**	**25 06 22 47.7**±.95	**38.03N**±.041	**4.43W**±.040	**5**±8.2		**34**	**0-6**	
NEIC	VIII	25 06 22 48.1	38.00N	4.44W	10				¶97viii3657
LIS	VIII	25 06 22 49	37.97N	4.24W		3.3L			
MDD	VIII	25 06 22 49.4	37.97N	4.40W	3	3.7			
NEIC	mbLg3.9(MDD), Single network solution.								
MDD	Felt I=III MSK at Pedro Abad								
ISC	**VIII**	**25 13 04 21**±4.3	**37.6N**±.48	**6.2W**±.26	**0**		**9**	**1-3**	
LIS	VIII	25 13 04 22	37.22N	6.10W		2.2L			¶97viii3690
ISC	**VIII**	**27 12 54 05**±11	**37.8N**±.22	**6.4W**±.91	**0**		**8**	**1-2**	
LIS	VIII	27 12 54 08	37.72N	6.55W		1.7L			¶97viii3984
ISC	**VIII**	**28 02 56 26.2**±.81	**37.08N**±.058	**3.99W**±.054	**3**±9.9		**14**	**0-4**	
NEIC	VIII	28 02 56 26.2	37.05N	4.01W	10				¶97viii4078
MDD	VIII	28 02 56 27.3	37.05N	4.01W	2	3.0			
NEIC	mbLg3.1(MDD), Single network solution.								
LIS	**VIII**	**29 12 52 19**	**37.62N**	**6.27W**		**1.9L**			¶97viii4306
ISC	**VIII**	**30 04 01 07.5**±.25	**43.27N**±.025	**2.34W**±.034	**18**		**84**	**1-10**	
NEIC	VIII	30 04 01 06.9	43.25N	2.33W	10				¶97viii4422
STR	VIII	30 04 01 09.1	43.27N	2.20W	9	4.2L			
MDD	VIII	30 04 01 10.3	43.22N	2.27W	18	3.5			
LDG	VIII	30 04 01 10.6	43.3N	2.3W		4.0L			
LIS	VIII	30 04 01 12	43.10N	2.38W					
NEIC	mbLg3.6(MDD)								
NEIC	Felt I=IV MM in the epicentral area.								
MDD	Felt I=IV MSK at Azpeitia								
ISC	**VIII**	**30 04 12 18**±1.1	**43.28N**±.032	**2.32W**±.045	**8**±8.5		**59**	**1-7**	
NEIC	VIII	30 04 12 18.0	43.24N	2.29W	10				¶97viii4425
STR	VIII	30 04 12 19.9	43.24N	2.20W	11	3.9L			
LDG	VIII	30 04 12 20.3	43.3N	2.3W		3.7L			
MDD	VIII	30 04 12 21.0	43.25N	2.25W	18	3.4			
NEIC	mbLg3.5(MDD).								
NEIC	Felt I=III MM in the epicentral area.								
MDD	Felt I=III MSK at Azpeitia								
ISC	**VIII**	**30 13 44 03**±2.5	**37.2N**±.21	**3.3W**±.15	**5**		**5**	**0-2**	
NEIC	VIII	30 13 44 02.8	37.14N	3.29W	5				¶97viii4492
MDD	VIII	30 13 44 03.8	37.16N	3.33W	5	2.5			
NEIC	mbLg2.2(MDD), Poor solution.								
ISC	**VIII**	**31 08 04 41.7**±.92	**37.19N**±.074	**3.68W**±.082	**10**		**6**	**0-1**	
NEIC	VIII	31 08 04 41.5	37.24N	3.68W	10				¶97viii4613
MDD	VIII	31 08 04 42.4	37.21N	3.68W	5	2.4			
NEIC	mbLg2.1(MDD), Single network solution.								
MDD	**VIII**	**31 15 57 55.4**	**43.05N**	**6.99W**	**13**	**2.8**			¶97viii4676
ISC	**IX**	**03 13 12 22**±1.3	**37.41N**±.071	**2.4W**±.18	**5**		**5**	**0-1**	
NEIC	IX	03 13 12 21.5	37.41N	2.37W	5				¶97ix0427
MDD	IX	03 13 12 22.1	37.39N	2.39W	5	2.8			
NEIC	mbLg2.8(MDD), Single network solution.								
ISC	**IX**	**03 15 47 44.9**±.99	**37.05N**±.084	**4.04W**±.080	**2**±17		**7**	**0-2**	
NEIC	IX	03 15 47 44.7	37.04N	4.04W	10				¶97ix0444
MDD	IX	03 15 47 45.8	37.04N	4.04W	3	2.7			
NEIC	mbLg2.7(MDD), Single network solution.								
ISC	**IX**	**03 17 51 56.0**±.68	**43.30N**±.048	**2.37W**±.076	**10**		**28**	**1-6**	
NEIC	IX	03 17 51 56.1	43.34N	2.30W	5				¶97ix0459
LDG	IX	03 17 51 58.3	43.3N	2.3W		3.1L			
MDD	IX	03 17 51 58.5	43.20N	2.20W	10	2.8			
NEIC	mbLg3.1(MDD).								
NEIC	ML 2.9 (STR).								
ISC	**IX**	**05 03 23 07**±1.8	**37.68N**±.099	**1.4W**±.13	**10**±13		**8**	**0-3**	
NEIC	IX	05 03 23 07.2	37.68N	1.45W	10				¶97ix0678
MDD	IX	05 03 23 08.1	37.68N	1.44W	2	2.9			
NEIC	mbLg2.6(MDD), Single network solution.								
ISC	**IX**	**07 11 37 55**±1.3	**37.40N**±.090	**2.1W**±.16	**0**		**4**	**0-2**	
MDD	IX	07 11 37 55.9	37.39N	2.02W		2.6			¶97ix1058
ISC	Poorly determined								
ISC	**IX**	**08 03 26 36**±1.4	**43.31N**±.086	**2.26W**±.090	**6**±15		**21**	**1-6**	
NEIC	IX	08 03 26 35.5	43.33N	2.30W	5				¶97ix1164
MDD	IX	08 03 26 37.3	43.29N	2.26W	3	3.0			
LDG	IX	08 03 26 38.9	43.3N	2.2W		2.9L			
NEIC	mbLg3.0(MDD)								
NEIC	Felt I=II MM in the Azpeitia area.								
MDD	Felt I=II at south Zumaia								
ISC	**IX**	**09 16 08 27**±1.1	**37.5N**±.44	**6.4W**±.18	**0**		**8**	**1-2**	
MDD	IX	09 16 08 28.6	37.41N	6.35W		2.9			¶97ix1405
LIS	IX	09 16 08 30	37.30N	6.20W		2.1L			
ISC	**IX**	**10 07 06 35**±1.8	**43.1N**±.11	**6.5W**±.12	**19**±24		**11**	**1-4**	
NEIC	IX	10 07 06 34.5	43.12N	6.47W	10				¶97ix1487
MDD	IX	10 07 06 35.7	43.10N	6.48W	3	2.9			
NEIC	mbLg3.0(MDD), Single network solution.								
ISC	**IX**	**10 07 28 25**±1.2	**42.8N**±.13	**5.5W**±.11	**10**		**8**	**1-3**	
NEIC	IX	10 07 28 25.4	42.83N	5.53W	10				¶97ix1490
MDD	IX	10 07 28 25.8	42.88N	5.61W	3	3.1			
NEIC	mbLg3.2(MDD), Single network solution.								
ISC	**IX**	**12 21 51 37.9**±.86	**37.16N**±.075	**3.64W**±.088	**5**±15		**7**	**0-1**	
NEIC	IX	12 21 51 36.6	37.11N	3.63W	10				¶97ix1878
MDD	IX	12 21 51 38.6	37.14N	3.62W	3	2.1			
NEIC	mbLg2.1(MDD), Single network solution.								
ISC	**IX**	**13 01 37 16**±2.0	**42.79N**±.085	**7.1W**±.24	**7**		**4**	**0-1**	
MDD	IX	13 01 37 17.3	42.78N	7.19W	7	2.6			¶97ix1893
ISC	Poorly determined								
ISC	**IX**	**13 19 23 02**±1.1	**37.25N**±.083	**3.7W**±.11	**24**±16		**7**	**0-1**	
NEIC	IX	13 19 23 00.9	37.28N	3.73W	10				¶97ix2024
MDD	IX	13 19 23 02.3	37.23N	3.72W	25	2.1			
NEIC	mbLg2.1(MDD), Single network solution.								
ISC	**IX**	**16 01 19 34.3**±.82	**37.64N**±.053	**3.51W**±.078	**6**±11		**10**	**0-2**	
MDD	IX	16 01 19 35.4	37.65N	3.53W	5	2.7			¶97ix2304
ISC	**IX**	**16 03 15 33**±1.1	**41.14N**±.073	**2.1W**±.16	**11**		**11**	**0-3**	
MDD	IX	16 03 15 34.3	41.14N	2.03W	11	2.6			¶97ix2321
ISC	**IX**	**16 11 32 02**±2.6	**42.8N**±.10	**6.7W**±.38	**0**		**4**	**0-2**	
MDD	IX	16 11 32 04.2	42.79N	6.75W		2.9			¶97ix2377
ISC	Poorly determined								
STR	**IX**	**19 12 54 14.3**	**42.82N**	**2.56W**	**6**	**3.4L**			¶97ix2792
ISC	**IX**	**19 16 52 38**±1.4	**37.0N**±.10	**3.7W**±.16	**10**		**4**	**0-0**	
NEIC	IX	19 16 52 35.9	37.05N	3.73W	10				¶97ix2817
MDD	IX	19 16 52 38.0	37.07N	3.74W	13	1.9			
ISC	Poorly determined								
NEIC	mbLg1.9(MDD), Poor solution.								
ISC	**IX**	**20 00 29 23.8**±.66	**37.47N**±.080	**3.73W**±.079	**29**±11		**13**	**0-2**	
NEIC	IX	20 00 29 22.3	37.52N	3.75W	10				¶97ix2875
MDD	IX	20 00 29 24.5	37.47N	3.71W	22	2.4			
NEIC	mbLg2.4(MDD), Single network solution.								
ISC	**IX**	**21 12 35 01**±1.3	**41.14N**±.077	**1.9W**±.13	**21**±17		**15**	**0-5**	
NEIC	IX	21 12 35 00.1	41.17N	1.95W	10				¶97ix3100
MDD	IX	21 12 35 01.9	41.14N	1.92W	10	2.8			
LDG	IX	21 12 35 02.8	41.2N	1.8W		2.6L			
NEIC	mbLg2.8(MDD)								
ISC	**IX**	**22 00 24 38.4**±.64	**37.21N**±.058	**3.71W**±.067	**5**		**11**	**0-2**	
NEIC	IX	22 00 24 35.7	37.22N	3.76W	5				¶97ix3191
MDD	IX	22 00 24 39.4	37.22N	3.71W	2	2.2			
NEIC	mbLg2.2(MDD), Single network solution.								
ISC	**IX**	**23 02 31 56**±1.0	**37.10N**±.074	**3.89W**±.091	**4**		**6**	**0-1**	
MDD	IX	23 02 31 56.4	37.08N	3.90W	4	2.1			¶97ix3361
ISC	**IX**	**23 03 18 10**±1.0	**41.07N**±.095	**2.3W**±.14	**18**		**5**	**0-2**	
MDD	IX	23 03 18 10.0	41.08N	2.01W	18	2.6			¶97ix3367

Agency		Origin Time			ϕ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
ISC	**IX**	**23**	**12 40**	**26.3**±.60	**37.09N**±.052	**3.70W**±.052	**8**±6.1		**19**	**0-4**
NEIC	IX	23	12 40	24.1	37.08N	3.70W	10			¶97ix3421
MDD	IX	23	12 40	27.2	37.08N	3.69W	4	3.1		
NEIC	mbLg3.1(MDD), Single network solution.									
NEIC	Felt I=II MM in the Alhendin area.									
MDD	Felt I=II at east Mala									
ISC	**IX**	**24**	**11 10**	**50**±1.6	**37.27N**±.086	**3.0W**±.12	**11**±19		**7**	**0-1**
NEIC	IX	24	11 10	50.0	37.28N	3.01W	10			¶97ix3570
MDD	IX	24	11 10	51.2	37.25N	3.01W	9	2.4		
NEIC	mbLg2.3(MDD), Single network solution.									
ISC	**IX**	**28**	**03 21**	**37**±1.6	**39.79N**±.065	**4.0W**±.14	**4**±15		**8**	**0-2**
MDD	IX	28	03 21	37.2	39.73N	4.02W	2	2.6		¶97ix4527
LDG	**IX**	**29**	**11 14**	**56.0**	**41.2N**	**1.2E**		**2.8L**		¶97ix4934
MDD	IX	29	11 15	00.7	41.27N	1.20E	4	2.8		
ISC	**IX**	**30**	**00 35**	**48**±6.2	**42.8N**±.21	**8.9W**±.58	**4**		**4**	**0-1**
MDD	IX	30	00 35	49.4	42.78N	8.81W	4	2.4		¶97ix5076
ISC	Poorly determined									
ISC	**IX**	**30**	**15 12**	**55**±1.5	**42.8N**±.11	**7.2W**±.20	**18**±25		**6**	**0-3**
NEIC	IX	30	15 12	54.8	42.78N	7.21W	10			¶97ix5256
MDD	IX	30	15 12	55.7	42.77N	7.20W	9	3.0		
ISC	Poorly determined									
NEIC	mbLg3.0(MDD). Single network solution.									
MDD	Felt I=II at Sarria−Becerrea									
ISC	**IX**	**30**	**15 13**	**21**±1.8	**42.79N**±.093	**7.2W**±.23	**10**		**4**	**0-1**
NEIC	IX	30	15 13	20.5	42.79N	7.17W	10			¶97ix5257
LIS	IX	30	15 13	21	42.27N	7.33W				
MDD	IX	30	15 13	21.3	42.79N	7.16W	9	2.7		
ISC	Poorly determined									
NEIC	mbLg2.5(MDD). Poor solution.									
MDD	Felt I=II at Sarria−Becerrea									
ISC	**IX**	**30**	**15 13**	**59**±1.6	**42.8N**±.11	**7.1W**±.21	**20**±22		**6**	**0-3**
NEIC	IX	30	15 13	58.8	42.78N	7.16W	10			¶97ix5259
MDD	IX	30	15 14	00.0	42.78N	7.23W	9	2.9		
ISC	Poorly determined									
NEIC	mbLg2.9(MDD). Single network solution.									
MDD	Felt I=II at Sarria−Becerrea									
ISC	**X**	**04**	**22 11**	**02**±3.4	**37.26N**±.093	**2.1W**±.47	**10**		**4**	**0-2**
NEIC	X	04	22 11	02.0	37.29N	2.15W	10			¶97x0746
MDD	X	04	22 11	02.8	37.22N	2.01W	14	2.8		
ISC	Poorly determined									
NEIC	mbLg2.7(MDD), Poor solution.									
ISC	**X**	**05**	**10 56**	**33**±1.2	**37.45N**±.077	**3.5W**±.26	**10**		**4**	**0-1**
MDD	X	05	10 56	33.2	37.33N	3.67W	21	2.4		¶97x0853
NEIC	X	05	10 56	33.3	37.45N	3.48W	10			
ISC	Poorly determined									
NEIC	mbLg2.3(MDD), Poor solution.									
ISC	**X**	**06**	**14 26**	**30.4**±.50	**42.85N**±.034	**7.59W**±.067	**8**		**41**	**1-11**
NEIC	X	06	14 26	32.2	42.69N	7.62W	10			¶97x1061
LDG	X	06	14 26	32.8	42.8N	7.8W		3.7L		
MDD	X	06	14 26	33.6	42.75N	7.68W	8	3.7		
LIS	X	06	14 26	34	42.70N	7.68W		3.6L		
NEIC	mbLg3.9(MDD)									
NEIC	Felt I=III MSK in the Taboada area.									
MDD	I=III−IV at Porto Marin, Luxumbourg									
LDG	**X**	**08**	**09 17**	**31.7**	**41.3N**	**1.2E**		**2.9L**		¶97x1381
ISC	**X**	**09**	**18 41**	**31**±1.5	**38.2N**±.12	**0.2E**±.13	**27**		**9**	**1-3**
NEIC	X	09	18 41	29.0	38.15N	0.21E	10			¶97x1623
MDD	X	09	18 41	38.0	38.41N	0.43W	27	2.7		
NEIC	mbLg3.1(MDD), Single network solution.									
ISC	**X**	**11**	**01 28**	**01**±1.5	**39.5N**±.14	**1.1W**±.24	**5**		**4**	**0-2**
NEIC	X	11	01 28	00.7	39.49N	1.06W	5			¶97x1823
MDD	X	11	01 28	02.0	39.50N	0.99W	8	2.6		
ISC	Poorly determined									
NEIC	mbLg2.4(MDD), Poor solution.									
ISC	**X**	**11**	**02 39**	**12**±2.4	**39.3N**±.12	**0.2E**±.26	**54**±57		**9**	**1-4**
NEIC	X	11	02 39	09.8	39.31N	0.16E	10			¶97x1831
MDD	X	11	02 39	11.9	39.35N	0.14E	17	3.1		
NEIC	mbLg3.0(MDD), Single network solution.									
MDD	**X**	**11**	**10 54**	**07.1**	**40.01N**	**6.08W**	**2**	**2.9**		¶97x1882
LIS	X	11	10 54	08	39.83N	6.10W		1.7L		
ISC	**X**	**11**	**19 23**	**59**±1.9	**38.86N**±.095	**0.4W**±.25	**21**		**5**	**0-3**
MDD	X	11	19 23	58.8	38.88N	0.27W	21	2.8		¶97x1926
NEIC	X	11	19 23	59.7	38.81N	0.60W	10			
MDD	I=II−III at Villa Longa									
NEIC	mbLg2.8(MDD). Poor solution.									
NEIC	Felt I=II MM in the Gandia area.									
ISC	**X**	**14**	**08 41**	**32**±20	**42.0N**±.92	**2.4W**±.88	**0**		**4**	**1-2**
LDG	X	14	08 41	46.1	42.6N	1.8W		2.4L		¶97x2363
MDD	X	14	08 41	47.6	42.68N	1.84W		2.1		
ISC	Poorly determined									
ISC	**X**	**16**	**00 41**	**38.2**±.66	**37.66N**±.055	**3.55W**±.078	**26**±11		**14**	**0-3**
NEIC	X	16	00 41	37.4	37.68N	3.57W	10			¶97x2758
MDD	X	16	00 41	39.1	37.64N	3.54W	18	3.1		
NEIC	mbLg2.7(MDD), Single network solution.									
ISC	**X**	**18**	**15 08**	**53**±1.3	**37.51N**±.072	**2.37W**±.097	**5**±16		**7**	**0-2**
NEIC	X	18	15 08	53.5	37.53N	2.34W	5			¶97x3183
MDD	X	18	15 08	54.2	37.52N	2.36W	2	2.6		
NEIC	mbLg2.6(MDD), Single network solution.									
ISC	**X**	**18**	**19 54**	**30**±1.2	**41.44N**±.065	**0.4E**±.16	**0**		**8**	**1-4**
LDG	X	18	19 54	30.8	41.4N	0.4E		2.7L		¶97x3222
ISC	**X**	**21**	**02 09**	**35.1**±.76	**42.13N**±.056	**7.0W**±.13	**4**		**11**	**0-3**
LIS	X	21	02 09	34	42.17N	6.75W	4	1.7L		¶97x3587
MDD	X	21	02 09	36.6	42.14N	6.98W	3	2.8		
ISC	**X**	**21**	**16 21**	**40**±1.6	**42.79N**±.091	**7.3W**±.18	**10**		**4**	**0-1**
NEIC	X	21	16 21	39.6	42.79N	7.28W	10			¶97x3677
MDD	X	21	16 21	40.4	42.78N	7.27W	9	3.0		
ISC	Poorly determined									
NEIC	mbLg3.1(MDD), Poor solution.									
ISC	**X**	**22**	**02 30**	**09.1**±.84	**37.82N**±.049	**4.59W**±.060	**14**±11		**18**	**1-4**
NEIC	X	22	02 30	09.0	37.77N	4.61W	10			¶97x3737
MDD	X	22	02 30	09.7	37.77N	4.61W	9	3.1		
NEIC	mbLg3.1(MDD), Single network solution.									
ISC	**X**	**22**	**03 00**	**16**±1.5	**37.69N**±.067	**4.64W**±.069	**11**±15		**12**	**1-3**
NEIC	X	22	03 00	15.9	37.70N	4.63W	10			¶97x3744
MDD	X	22	03 00	16.7	37.70N	4.61W	3	2.7		
NEIC	mbLg2.5(MDD), Single network solution.									
LDG	**X**	**22**	**09 05**	**22.0**	**41.4N**	**0.4W**		**2.5L**		¶97x3780
ISC	**X**	**24**	**03 05**	**27**±8.4	**38.1N**±.19	**2.1W**±.88	**10**		**4**	**0-1**
NEIC	X	24	03 05	27.0	38.09N	2.10W	10			¶97x4099
MDD	X	24	03 05	27.7	38.06N	2.05W	5	2.8		
ISC	Poorly determined									
NEIC	mbLg2.8(MDD), Poor solution.									
ISC	**X**	**25**	**11 49**	**42**±11	**44.0N**±.53	**2.9W**±.80	**0**		**6**	**1-4**
MDD	X	25	11 49	48.1	43.75N	2.76W		3.2		¶97x4319
LDG	X	25	11 49	50.0	44.0N	2.3W		2.3L		
ISC	**X**	**25**	**17 58**	**55.8**±.96	**37.67N**±.051	**2.22W**±.061	**7**±9.0		**23**	**0-5**
NEIC	X	25	17 58	56.5	37.68N	2.22W	10			¶97x4351
MDD	X	25	17 58	56.9	37.65N	2.20W	1	3.1		
NEIC	mbLg3.3(MDD), Single network solution.									
ISC	**X**	**26**	**03 42**	**39.6**±.92	**37.10N**±.080	**2.73W**±.066	**5**		**10**	**0-2**
NEIC	X	26	03 42	39.6	37.09N	2.75W	5			¶97x4409
MDD	X	26	03 42	40.4	37.09N	2.73W	2	2.6		
NEIC	mbLg2.6(MDD), Single network solution.									
ISC	**X**	**28**	**00 43**	**05.5**±.70	**37.09N**±.058	**3.60W**±.063	**9**±7.0		**13**	**0-3**
NEIC	X	28	00 43	05.5	37.09N	3.60W	10			¶97x4677
MDD	X	28	00 43	06.4	37.10N	3.60W	5	2.7		
NEIC	mbLg2.7(MDD). Felt, Single network solution.									
NEIC	Felt at Cajar, Gojar and Ogijares.									
ISC	**X**	**28**	**15 57**	**53.9**±.93	**37.23N**±.084	**3.75W**±.088	**10**		**6**	**0-1**
NEIC	X	28	15 57	53.9	37.23N	3.75W	10			¶97x4787
MDD	X	28	15 57	54.6	37.19N	3.73W	9	2.7		
NEIC	mbLg2.7(MDD), Single network solution.									
ISC	**X**	**29**	**00 20**	**24.8**±.69	**37.19N**±.069	**3.75W**±.065	**9**±10		**10**	**0-2**
NEIC	X	29	00 20	24.7	37.19N	3.75W	10			¶97x4833
MDD	X	29	00 20	25.6	37.19N	3.73W	1	2.7		
NEIC	mbLg2.4(MDD), Single network solution.									
ISC	**X**	**30**	**14 10**	**12**±5.3	**37.9N**±.20	**2.3W**±.50	**10**		**4**	**0-1**
NEIC	X	30	14 10	11.5	37.93N	2.29W	10			¶97x5050
MDD	X	30	14 10	13.1	37.96N	2.37W	4	2.9		
ISC	Poorly determined									
NEIC	mbLg3.0(MDD), Poor solution.									
ISC	**XI**	**01**	**17 51**	**17.8**±.62	**37.73N**±.039	**3.39W**±.064	**0**		**12**	**0-2**
NEIC	XI	01	17 50	22.3	37.71N	3.39W	10			¶97xi0113
MDD	XI	01	17 51	19.7	37.7N	3.4W	0	1.9b		
NEIC	mbLg2.7(MDD).									
ISC	**XI**	**03**	**05 08**	**30**±2.2	**37.0N**±.17	**4.0W**±.15	**4**		**4**	**0-0**
MDD	XI	03	05 08	30.5	37.0N	4.0W	4	1.8b		¶97xi0410
ISC	Poorly determined									
LDG	**XI**	**04**	**12 14**	**52.8**	**43.1N**	**2.3W**		**2.5L**		¶97xi0630
ISC	**XI**	**06**	**22 17**	**48.6**±.54	**38.19N**±.036	**2.29W**±.053	**0**		**18**	**0-3**
MDD	XI	06	22 17	50.8	38.1N	2.3W	0	2.6b		¶97xi1044
ISC	**XI**	**10**	**08 23**	**22.1**±.66	**37.27N**±.053	**3.73W**±.063	**4**±12		**13**	**0-2**
MDD	XI	10	08 23	23.2	37.2N	3.7W	0	2.3b		¶97xi1581
ISC	**XI**	**10**	**17 09**	**20.6**±.97	**37.90N**±.056	**1.30W**±.068	**5**±6.5		**24**	**0-5**
MDD	XI	10	17 09	22.1	37.9N	1.3W	4	3.0b		¶97xi1646
ISC	Felt I=III MM in the Murcia area									
LDG	**XI**	**11**	**11 22**	**51.1**	**41.2N**	**1.1E**		**2.5L**		¶97xi1776
ISC	**XI**	**11**	**14 32**	**38.7**±.50	**37.14N**±.038	**5.25W**±.049	**0**		**19**	**0-4**
MDD	XI	11	14 32	40.5	37.1N	5.3W	0	2.8b		¶97xi1807
ISC	**XI**	**11**	**15 31**	**38**±1.6	**42.80N**±.082	**7.3W**±.16	**6**		**6**	**0-3**
MDD	XI	11	15 31	38.7	42.8N	7.2W	6	2.7b		¶97xi1814
ISC	Poorly determined									
ISC	**XI**	**11**	**16 15**	**29**±3.9	**37.1N**±.14	**3.9W**±.13	**14**±40		**5**	**0-0**
MDD	XI	11	16 15	29.2	37.1N	3.9W	5	2.0b		¶97xi1820
ISC	Poorly determined									
ISC	**XI**	**12**	**04 24**	**02**±1.7	**37.1N**±.12	**4.1W**±.11	**0**		**6**	**0-1**
MDD	XI	12	04 24	02.3	37.0N	4.2W	0	1.8b		¶97xi1935
ISC	**XI**	**13**	**00 24**	**46**±1.1	**38.19N**±.068	**2.8W**±.12	**13**±18		**6**	**0-2**
MDD	XI	13	00 24	46.9	38.2N	2.8W	10	2.0b		¶97xi2055
ISC	**XI**	**14**	**00 50**	**36.5**±.47	**37.53N**±.033	**3.40W**±.050	**0**		**21**	**0-3**
MDD	XI	14	00 50	38.5	37.5N	3.4W	0	2.2b		¶97xi2215
ISC	**XI**	**15**	**22 35**	**43.8**±.45	**37.28N**±.036	**3.70W**±.040	**0**		**24**	**0-4**
MDD	XI	15	22 35	45.0	37.2N	3.7W	0	2.6b		¶97xi2552
ISC	**XI**	**15**	**23 13**	**47.5**±.61	**37.27N**±.043	**3.71W**±.050	**0**		**12**	**0-2**
MDD	XI	15	23 13	48.6	37.2N	3.7W	0	2.1b		¶97xi2558
ISC	**XI**	**17**	**01 38**	**28.1**±.63	**37.23N**±.056	**4.43W**±.051	**0**		**11**	**0-2**
MDD	XI	17	01 38	29.5	37.2N	4.4W	0	1.7b		¶97xi2725
ISC	**XI**	**17**	**07 38**	**07**±1.2	**42.79N**±.092	**7.2W**±.14	**19**±19		**7**	**0-4**
MDD	XI	17	07 38	07.2	42.8N	7.3W	7	2.7b		¶97xi2759
ISC	**XI**	**17**	**21 02**	**14.0**±.81	**37.13N**±.064	**3.71W**±.085	**4**±13		**8**	**0-2**
MDD	XI	17	21 02	14.9	37.1N	3.7W	0	1.7b		¶97xi2859
ISC	**XI**	**18**	**17 30**	**26**±1.5	**42.77N**±.082	**7.3W**±.16	**3**		**4**	**0-1**
MDD	XI	18	17 30	27.0	42.8N	7.2W	3	2.1b		¶97xi3018
ISC	Poorly determined									
MDD	**XI**	**18**	**17 33**	**58.9**	**42.8N**	**7.1W**	**5**	**1.9b**		**0-1**
										¶97xi3020
MDD	**XI**	**18**	**17 34**	**19.9**	**42.7N**	**7.2W**	**8**	**2.0b**		**0-1**
										¶97xi3021
ISC	**XI**	**18**	**17 35**	**56**±1.5	**42.76N**±.083	**7.3W**±.15	**0**		**4**	**0-1**
MDD	XI	18	17 35	56.6	42.8N	7.3W	0	1.9b		¶97xi3022
ISC	Poorly determined									
ISC	**XI**	**18**	**17 36**	**11.4**±.79	**42.73N**±.058	**7.21W**±.085	**0**		**11**	**0-4**
MDD	XI	18	17 36	13.2	42.8N	7.2W	0	3.0b		¶97xi3023
ISC	**XI**	**18**	**17 36**	**50**±1.5	**42.76N**±.084	**7.3W**±.16	**11**		**4**	**0-1**
MDD	XI	18	17 36	50.9	42.8N	7.2W	11	2.9b		¶97xi3024
ISC	Poorly determined									
ISC	**XI**	**18**	**17 38**	**47**±1.6	**42.79N**±.082	**7.3W**±.16	**5**		**4**	**0-1**
MDD	XI	18	17 38	48.2	42.8N	7.2W	5	2.2b		¶97xi3027
ISC	Poorly determined									
ISC	**XI**	**18**	**17 39**	**09**±1.3	**42.78N**±.084	**7.5W**±.17	**14**		**4**	**0-2**
MDD	XI	18	17 39	09.5	42.7N	7.4W	14	2.0b		¶97xi3028
ISC	Poorly determined									
ISC	**XI**	**18**	**18 24**	**53.0**±.43	**42.93N**±.033	**7.15W**±.057	**9**		**54**	**1-10**
NEIC	XI	18	18 24	55.1	42.80N	7.19W	10			¶97xi3035
LIS	XI	18	18 24	56	42.82N	7.12W		3.6L		
MDD	XI	18	18 24	56.3	42.8N	7.2W	9	3.5b		
LDG	XI	18	18 24	56.5	43.0N	7.2W		3.7L		
NEIC	mbLg3.6(MDD)									
NEIC	Felt I=IV MSK at Baralla, Becerrea, Samos and Sarria; II MSK at Lugo.									
ISC	**XI**	**19**	**12 13**	**08**±1.5	**42.77N**±.084	**7.3W**±.15	**9**		**4**	**0-1**
MDD	XI	19	12 13	08.3	42.8N	7.3W	9	2.3b		¶97xi3216
ISC	Poorly determined									
MDD	**XI**	**19**	**16 44**	**44.0**	**42.8N**	**7.2W**	**3**	**2.4b**		**0-3**
										¶97xi3260
ISC	**XI**	**19**	**16 45**	**46**±1.5	**42.79N**±.083	**7.3W**±.15	**7**		**4**	**0-1**
MDD	XI	19	16 45	47.2	42.8N	7.2W	7	2.4b		¶97xi3261
ISC	Poorly determined									
MDD	**XI**	**20**	**14 06**	**02.7**	**37.2N**	**3.7W**	**0**	1.6b		**0-0**
										¶97xi3474

ISC	**XI**	**21 09 51 24**±1.3	**42.75N**±.073	**7.3W**±.13	**10**		**5**	**0-3**	
MDD	XI	21 09 51 26.4	42.8N	7.3W	10	2.2b	**¶97xi3633**		
ISC	**XI**	**22 02 18 52**±2.0	**42.47N**±.087	**8.7W**±.23	**4**±21		**6**	**0-3**	
MDD	XI	22 02 18 52.5	42.5N	8.8W	0	1.9b	**¶97xi3783**		
ISC	Poorly determined								
ISC	**XI**	**22 10 29 45**±1.3	**37.1N**±.13	**3.9W**±.12	**16**		**4**	**0-1**	
MDD	XI	22 10 29 44.5	37.0N	3.9W	16	1.3b	**¶97xi3856**		
ISC	Poorly determined								
ISC	**XI**	**24 11 02 41**±1.1	**42.77N**±.075	**7.0W**±.11	**4**		**6**	**0-3**	
MDD	XI	24 11 02 44.2	42.8N	7.2W	4	2.4b	**¶97xi4303**		
ISC	**XI**	**24 19 05 49.5**±.58	**37.27N**±.041	**3.72W**±.053	**0**		**14**	**0-2**	
MDD	XI	24 19 05 51.0	37.2N	3.7W	0	2.5b	**¶97xi4364**		
ISC	**XI**	**24 20 34 18**±1.1	**37.23N**±.078	**3.71W**±.089	**1**		**5**	**0-1**	
MDD	XI	24 20 34 18.0	37.2N	3.7W	1	1.6b	**¶97xi4383**		
ISC	**XI**	**25 05 35 29**±2.6	**37.5N**±.16	**1.2W**±.23	**22**±20		**5**	**0-2**	
MDD	XI	25 05 35 28.5	37.5N	1.1W	13	2.1b	**¶97xi4452**		
ISC	Poorly determined								
MDD	**XI**	**25 09 51 35.1**	**37.2N**	**4.3W**	**0**	**2.1b**		**0-1**	
								¶97xi4483	
ISC	**XI**	**26 09 36 51.5**±.71	**37.20N**±.052	**3.72W**±.064	**0**		**9**	**0-2**	
MDD	XI	26 09 36 52.3	37.2N	3.7W	0	2.2b	**¶97xi4665**		
ISC	**XI**	**28 08 31 23**±1.0	**37.04N**±.081	**5.43W**±.099	**15**		**7**	**0-2**	
MDD	XI	28 08 31 23.3	37.1N	5.4W	15	2.1b	**¶97xi5039**		
ISC	**XI**	**28 08 51 50.4**±.49	**37.09N**±.038	**5.32W**±.038	**6**±6.2		**38**	**0-7**	
LIS	XI	28 08 51 52	37.03N	5.37W		2.9L	**¶97xi5043**		
MDD	XI	28 08 51 52.4	37.1N	5.3W	10	3.1b			
ISC	**XI**	**28 09 07 54.6**±.51	**37.08N**±.041	**5.34W**±.044	**7**±6.8		**28**	**0-5**	
LIS	XI	28 09 07 56	37.03N	5.42W		2.4L	**¶97xi5045**		
MDD	XI	28 09 07 56.4	37.0N	5.4W	0	2.7b			
ISC	**XI**	**28 09 10 08.5**±.63	**37.07N**±.050	**5.38W**±.056	**13**±7.0		**18**	**0-5**	
MDD	XI	28 09 10 09.4	37.0N	5.4W	10	2.7b	**¶97xi5047**		
ISC	**XI**	**28 09 17 59.2**±.64	**37.05N**±.057	**5.38W**±.060	**14**±8.5		**18**	**0-3**	
MDD	XI	28 09 18 01.1	37.0N	5.4W	11	2.4b	**¶97xi5050**		
ISC	**XI**	**28 09 30 38.9**±.57	**37.04N**±.051	**5.38W**±.058	**10**±7.9		**18**	**0-3**	
MDD	XI	28 09 30 40.7	37.1N	5.4W	10	2.6b	**¶97xi5053**		
ISC	**XI**	**28 11 23 50.6**±.48	**37.09N**±.038	**5.35W**±.040	**8**±5.9		**34**	**0-7**	
MDD	XI	28 11 23 52.2	37.0N	5.4W	1	3.2b	**¶97xi5071**		
ISC	**XI**	**28 17 49 52.8**±.67	**37.06N**±.050	**5.41W**±.066	**0**		**11**	**0-3**	
MDD	XI	28 17 49 54.3	37.0N	5.4W	0	2.0b	**¶97xi5121**		
ISC	**XI**	**28 19 06 08.8**±.82	**38.22N**±.073	**1.90W**±.091	**15**		**11**	**1-2**	
MDD	XI	28 19 06 07.7	38.3N	2.0W	15	2.2b	**¶97xi5127**		
ISC	**XI**	**29 03 02 46.3**±.48	**37.10N**±.032	**5.36W**±.035	**3**±5.5		**43**	**0-5**	
MDD	XI	29 03 02 47.9	37.0N	5.4W	3	3.2b	**¶97xi5183**		
ISC	**XI**	**29 03 07 44.8**±.82	**37.05N**±.056	**5.39W**±.069	**0**		**11**	**0-3**	
MDD	XI	29 03 07 46.3	37.0N	5.4W	0	2.0b	**¶97xi5184**		
ISC	**XI**	**29 03 10 05.5**±.84	**37.03N**±.055	**5.45W**±.079	**0**		**13**	**0-3**	
MDD	XI	29 03 10 06.9	37.0N	5.4W	0	2.0b	**¶97xi5185**		
ISC	**XI**	**29 03 42 58**±1.1	**37.06N**±.074	**5.44W**±.091	**4**±15		**7**	**1-2**	
MDD	XI	29 03 42 59.4	37.0N	5.4W	8	2.1b	**¶97xi5191**		
ISC	**XI**	**29 04 10 50.6**±.52	**37.07N**±.039	**5.36W**±.054	**6**±7.5		**23**	**0-4**	
MDD	XI	29 04 10 52.3	37.0N	5.4W	0	2.5b	**¶97xi5194**		
ISC	**XI**	**29 06 05 37**±1.8	**37.0N**±.12	**4.1W**±.11	**0**		**8**	**0-1**	
MDD	XI	29 06 05 37.8	37.0N	4.1W	0	1.6b	**¶97xi5208**		
ISC	**XII**	**01 04 19 41.2**±.93	**38.23N**±.055	**1.05W**±.082	**12**		**13**	**0-3**	
MDD	XII	01 04 19 43.6	38.2N	1.0W	12	2.2b	**¶97xii0032**		
ISC	**XII**	**02 23 26 37**±1.2	**42.69N**±.094	**7.7W**±.11	**0**		**4**	**1-1**	
MDD	XII	02 23 26 38.4	42.7N	7.7W	0	2.2b	**¶97xii0326**		
ISC	Poorly determined								
ISC	**XII**	**04 03 49 31.5**±.91	**37.23N**±.063	**3.74W**±.089	**0**		**6**	**0-1**	
MDD	XII	04 03 49 32.3	37.2N	3.7W	0	1.4b	**¶97xii0550**		
MDD	**XII**	**05 02 57 58.5**	**38.6N**	**0.8W**	**0**	**2.3b**		**0-1**	
								¶97xii0767	
ISC	**XII**	**05 07 12 58.4**±.83	**37.11N**±.064	**5.20W**±.063	**9**±9.0		**14**	**1-3**	
MDD	XII	05 07 13 00.3	37.1N	5.2W	11	2.4b	**¶97xii0800**		
ISC	**XII**	**07 18 50 18.3**±.64	**37.90N**±.045	**2.46W**±.054	**0**		**14**	**0-2**	
MDD	XII	07 18 50 20.3	37.8N	2.5W	0	1.9b	**¶97xii1765**		
ISC	**XII**	**08 19 40 28**±1.3	**38.64N**±.063	**0.25W**±.090	**7**±8.6		**20**	**0-4**	
MDD	XII	08 19 40 29.0	38.5N	0.2W	16	2.4b	**¶97xii2003**		
ISC	**XII**	**08 22 20 36.5**±.47	**38.60N**±.033	**6.08W**±.050	**8**		**31**	**1-7**	
MDD	XII	08 22 20 38.4	38.6N	6.1W	8	2.9b	**¶97xii2025**		
NEIC	Felt I=III MSK Ribera del Fresno, Villafranca de los Barros, Hornachos (after EHOR)								
ISC	**XII**	**09 03 24 38.4**±.64	**37.06N**±.047	**4.27W**±.059	**10**±11		**16**	**0-3**	
MDD	XII	09 03 24 39.9	37.0N	4.3W	2	2.3b	**¶97xii2090**		
MDD	**XII**	**09 18 24 37.7**	**42.8N**	**7.2W**	**21**	**2.4b**		**0-4**	
								¶97xii2214	
ISC	**XII**	**10 01 04 46.0**±.54	**37.07N**±.042	**3.91W**±.046	**11**±6.7		**18**	**0-3**	
MDD	XII	10 01 04 47.3	37.1N	3.9W	5	2.1b	**¶97xii2273**		
ISC	**XII**	**10 22 21 47.3**±.89	**39.47N**±.045	**0.84W**±.089	**7**±7.8		**17**	**0-4**	
MDD	XII	10 22 21 49.1	39.5N	0.8W	11	2.3b	**¶97xii2437**		
ISC	**XII**	**10 22 26 50.7**±.88	**38.28N**±.049	**1.16W**±.076	**2**±13		**13**	**0-3**	
MDD	XII	10 22 26 52.5	38.2N	1.1W	10	2.2b	**¶97xii2438**		
ISC	**XII**	**12 02 53 31.9**±.76	**40.41N**±.054	**1.41W**±.069	**6**		**11**	**1-2**	
MDD	XII	12 02 53 35.0	40.4N	1.5W	7	1.9b	**¶97xii2683**		
ISC	**XII**	**12 05 09 01.2**±.69	**37.09N**±.059	**5.30W**±.060	**8**±9.3		**17**	**0-4**	
MDD	XII	12 05 09 02.5	37.1N	5.3W	4	2.1b	**¶97xii2698**		
ISC	**XII**	**13 08 14 56**±1.2	**39.39N**±.068	**0.15E**±.090	**11**±9.4		**13**	**1-4**	
MDD	XII	13 08 14 57.5	39.4N	0.2E	10	2.3b	**¶97xii2917**		
ISC	**XII**	**14 00 21 09**±1.3	**37.12N**±.099	**3.8W**±.11	**3**		**4**	**0-0**	
MDD	XII	14 00 21 09.1	37.1N	3.8W	3	1.4b	**¶97xii3044**		
ISC	Poorly determined								
ISC	**XII**	**15 06 35 23.9**±.66	**37.91N**±.039	**2.62W**±.064	**0**±17		**15**	**0-3**	
MDD	XII	15 06 35 26.4	37.8N	2.6W	0	2.0b	**¶97xii3251**		
ISC	**XII**	**16 07 26 00.9**±.74	**37.03N**±.064	**5.28W**±.068	**11**±9.7		**11**	**0-2**	
MDD	XII	16 07 26 02.4	37.0N	5.3W	8	1.9b	**¶97xii3404**		
ISC	**XII**	**16 07 57 09.7**±.72	**37.14N**±.053	**5.28W**±.061	**5**±12		**13**	**0-3**	
MDD	XII	16 07 57 11.6	37.1N	5.3W	4	2.3b	**¶97xii3411**		
ISC	**XII**	**18 19 45 58.6**±.55	**41.85N**±.042	**2.81E**±.050	**12**		**36**	**0-5**	
NEIC	XII	18 19 45 58.9	41.78N	3.08E	5		**¶97xii3812**		
LDG	XII	18 19 45 59.1	41.8N	2.8E		2.9L			
MDD	XII	18 19 46 01.0	41.8N	2.8E	12	2.6b			
NEIC	Single network solution.								
ISC	**XII**	**19 01 41 32.6**±.81	**38.23N**±.045	**4.32W**±.094	**9**±13		**12**	**0-2**	
MDD	XII	19 01 41 34.4	38.2N	4.3W	10	2.2b	**¶97xii3871**		
ISC	**XII**	**19 04 35 21**±1.0	**37.08N**±.079	**3.90W**±.083	**0**		**6**	**0-1**	
MDD	XII	19 04 35 21.0	37.0N	4.0W	0	1.9b	**¶97xii3892**		
ISC	**XII**	**19 23 44 28**±1.1	**37.42N**±.065	**2.04W**±.088	**4**		**9**	**0-2**	
MDD	XII	19 23 44 29.1	37.4N	2.0W	4	1.9b	**¶97xii4050**		
ISC	**XII**	**21 19 15 27.4**±.64	**37.25N**±.051	**3.69W**±.054	**1**±17		**12**	**0-2**	
MDD	XII	21 19 15 28.1	37.2N	3.7W	0	2.6b	**¶97xii4295**		
ISC	**XII**	**21 19 38 36.2**±.69	**37.16N**±.049	**5.20W**±.072	**14**		**15**	**0-4**	
MDD	XII	21 19 38 38.0	37.2N	5.2W	14	2.5b	**¶97xii4296**		
LDG	**XII**	**22 03 52 33.0**	**42.7N**	**2.2W**		**2.1L**	**¶97xii4348**		
ISC	**XII**	**22 10 25 34**±1.4	**37.18N**±.060	**4.1W**±.13	**0**		**7**	**0-1**	
MDD	XII	22 10 25 33.9	37.1N	4.2W	0	2.1b	**¶97xii4402**		
LDG	**XII**	**22 11 23 24.5**	**41.3N**	**1.2E**		**2.9L**	**¶97xii4414**		
ISC	**XII**	**23 04 56 54**±1.2	**37.23N**±.091	**3.8W**±.10	**0**		**5**	**0-1**	
MDD	XII	23 04 56 54.4	37.2N	3.8W	0	1.2b	**¶97xii4544**		
ISC	**XII**	**23 08 51 54**±4.8	**37.3N**±.31	**4.1W**±.25	**17**		**4**	**0-1**	
MDD	XII	23 08 51 52.4	37.4N	4.2W	17	2.0b	**¶97xii4572**		
ISC	Poorly determined								
ISC	**XII**	**27 11 10 46**±1.9	**37.8N**±.10	**6.47W**±.090	**1**±18		**7**	**1-3**	
MDD	XII	27 11 10 49.6	37.7N	6.4W	2	2.2b	**¶97xii5284**		
ISC	**XII**	**28 04 11 15**±1.1	**37.42N**±.062	**1.99W**±.079	**3**±9.5		**12**	**0-3**	
MDD	XII	28 04 11 16.2	37.4N	2.0W	6	2.3b	**¶97xii5391**		

(378) Pyrenees.

ISC	**VII**	**02 03 20 02.8**±.53	**42.72N**±.025	**0.71E**±.024	**14**±4.4	3.5b	**104**	**0-24**	
NEIC	VII	02 03 20 02.0	42.71N	0.73E	10		**¶97vii0174**		
EIDC	VII	02 03 20 02.1	42.6N	0.5E	0	4.0L,3.6b			
FBR	VII	02 03 20 02.7	42.66N	0.67E	3	3.5D			
STR	VII	02 03 20 02.9	42.63N	0.67E	0	3.9L			
MDD	VII	02 03 20 03.7	42.69N	0.69E	1	3.4			
LDG	VII	02 03 20 05.4	42.7N	0.6E		4.0L			
PIST	Felt I=III–IV MSK in the eastern Pyrenees, II in north east Spain								
FBR	Felt I=IV MSK Vielha								
MDD	Felt I=IV MSK at northeast Benasque								
ISC	**VII**	**02 03 54 15**±3.8	**42.1N**±.29	**0.8E**±.18	**4**		**6**	**1-3**	
MDD	VII	02 03 54 22.0	42.67N	0.70E	4	2.4	**¶97vii0176**		
LDG	VII	02 03 54 22.4	42.6N	0.7E		2.3L			
ISC	**VII**	**02 04 14 37**±2.1	**42.3N**±.15	**0.7E**±.11	**5**		**8**	**0-3**	
MDD	VII	02 04 14 42.0	42.68N	0.69E	5	2.2	**¶97vii0178**		
LDG	VII	02 04 14 42.7	42.6N	0.7E		2.6L			
ISC	**VII**	**02 12 01 12.4**±.66	**42.69N**±.054	**0.64E**±.046	**5**±6.9		**26**	**0-5**	
NEIC	VII	02 12 01 13.1	42.72N	0.66E	10		**¶97vii0234**		
MDD	VII	02 12 01 13.3	42.67N	0.67E	2	3.3			
LDG	VII	02 12 01 13.5	42.6N	0.7E		3.0L			
NEIC	mbLg3.2(MDD)								
NEIC	ML 2.7 (STR).								
ISC	**VII**	**02 12 15 54**±1.0	**42.7N**±.10	**0.70E**±.071	**5**		**9**	**0-2**	
LDG	VII	02 12 15 54.8	42.5N	0.8E		2.7L	**¶97vii0237**		
MDD	VII	02 12 15 55.2	42.68N	0.70E	5	2.6			
LDG	**VII**	**02 15 22 47.3**	**42.6N**	**0.7E**		**2.4L**	**¶97vii0259**		
LDG	**VII**	**02 18 22 23.4**	**42.7N**	**0.7E**		**2.4L**	**¶97vii0279**		
LDG	**VII**	**02 18 25 45.4**	**42.7N**	**0.8E**		**2.2L**	**¶97vii0280**		
MDD	**VII**	**04 10 47 50.9**	**42.71N**	**0.77E**		**2.2**	**¶97vii0540**		
ISC	**VII**	**05 04 32 25.7**±.55	**43.22N**±.050	**0.30W**±.054	**5**		**15**	**0-4**	
MDD	VII	05 04 32 23.3	43.44N	0.21W		2.8	**¶97vii0677**		
LDG	VII	05 04 32 25.1	43.0N	0.5W		2.8L			
NEIC	VII	05 04 32 27.3	43.05N	0.43W	5				
NEIC	$M_{D2.8}$(STR)								
ISC	**VII**	**07 14 01 04**±1.6	**42.34N**±.075	**1.09E**±.069	**4**±13		**19**	**0-4**	
LDG	VII	07 14 01 04.6	42.2N	1.3E		2.7L	**¶97vii1053**		
STR	VII	07 14 01 04.8	42.32N	1.09E	5	3.0L			
MDD	VII	07 14 01 04.9	42.30N	1.08E	2	3.0			
NEIC	VII	07 14 01 06.1	42.45N	1.01E	10				
NEIC	Less reliable solution.								
ISC	**VII**	**07 22 57 43**±3.2	**42.5N**±.26	**0.7E**±.19	**3**		**5**	**0-3**	
MDD	VII	07 22 57 42.8	42.37N	0.65E	3	2.4	**¶97vii1103**		
LDG	VII	07 22 57 43.1	42.3N	0.7E		2.0L			
ISC	**VII**	**08 13 31 08**±1.7	**42.9N**±.12	**1.0W**±.12	**0**		**6**	**0-1**	
MDD	VII	08 13 31 08.6	42.90N	0.97W		2.5	**¶97vii1196**		
ISC	**VII**	**12 19 50 26.8**±.65	**43.15N**±.078	**0.54W**±.060	**10**		**12**	**0-4**	
LDG	VII	12 19 50 27.1	43.0N	0.6W		2.3L	**¶97vii1863**		
NEIC	VII	12 19 50 27.4	43.05N	0.61W	10				
NEIC	$M_{L2.0}$(STR).								
ISC	**VII**	**15 20 35 41.8**±.36	**43.16N**±.033	**0.33W**±.041	**15**±6.2		**49**	**0-6**	
NEIC	VII	15 20 35 40.9	43.25N	0.35W	5		**¶97vii2347**		
LDG	VII	15 20 35 41.9	43.1N	0.3W		3.3L			
MDD	VII	15 20 35 42.0	43.14N	0.30W	2	3.5			
STR	VII	15 20 35 42	43.00N	0.36W	5	3.0L			
PIST	Felt I=III MSK in the Bearn region								
NEIC	mbLg3.4(MDD).								
MDD	Felt I=III MSK at northwest Argeles Gazost								
ISC	**VII**	**16 01 11 28**±1.3	**42.54N**±.095	**1.02E**±.076	**5**±12		**12**	**0-4**	
LDG	VII	16 01 11 29.5	42.5N	1.1E		2.4L	**¶97vii2373**		
MDD	VII	16 01 11 29.6	42.55N	1.03E	3	2.3			
NEIC	VII	16 01 11 33.2	42.87N	1.06E	10				
NEIC	Poor solution.								
ISC	**VII**	**22 04 10 24**±1.6	**43.2N**±.16	**0.5W**±.13	**0**		**4**	**1-3**	
LDG	VII	22 04 10 25.5	43.2N	0.5W		2.3L	**¶97vii3325**		
ISC	Poorly determined								
ISC	**VII**	**22 10 43 42.3**±.58	**42.96N**±.037	**1.75E**±.051	**5**±9.0		**25**	**0-5**	
LDG	VII	22 10 43 44.2	42.8N	1.7E		2.8L	**¶97vii3361**		
MDD	VII	22 10 43 44.5	42.78N	1.69E	9	3.0			
ISC	**VII**	**22 22 51 28**±1.1	**42.8N**±.11	**0.51E**±.075	**3**		**7**	**0-2**	
MDD	VII	22 22 51 28.0	42.75N	0.46E	3	2.2	**¶97vii3444**		
LDG	VII	22 22 51 29.8	42.8N	0.5E		2.3L			
ISC	**VII**	**23 03 47 44.4**±.62	**42.76N**±.037	**0.47E**±.033	**0**±5.8		**48**	**0-6**	
NEIC	VII	23 03 47 44.7	42.76N	0.49E	5		**¶97vii3479**		
STR	VII	23 03 47 45	42.77N	0.46E	5	3.2L			
MDD	VII	23 03 47 46.0	42.75N	0.45E	2	3.4			
LDG	VII	23 03 47 48.4	42.8N	0.5E		3.3L			
NEIC	mbLg3.4(MDD)								
NEIC	ML 3.2 (STR).								
ISC	**VII**	**30 03 20 51.7**±.54	**43.27N**±.042	**0.55W**±.054	**3**		**17**	**0-4**	
LDG	VII	30 03 20 52.5	43.1N	0.6W		2.4L	**¶97vii4525**		
MDD	VII	30 03 20 53.6	43.13N	0.59W	3	3.6			
ISC	**VII**	**31 03 00 44.9**±.69	**42.83N**±.058	**0.81E**±.062	**4**		**12**	**0-4**	
MDD	VII	31 03 00 46.0	42.73N	0.81E	4	2.5	**¶97vii4669**		
LDG	VII	31 03 00 46.8	42.8N	0.9E		2.2L			
ISC	**VIII**	**03 08 12 22.1**±.63	**43.17N**±.057	**0.27W**±.058	**5**		**15**	**0-4**	
LDG	VIII	03 08 12 23.0	43.1N	0.3W		2.4L	**¶97viii0333**		
MDD	VIII	03 08 12 23.7	43.07N	0.33W	5	2.4			
NEIC	VIII	03 08 12 24.2	43.03N	0.45W	10				
NEIC	$M_{L2.0}$(STR).								
ISC	**VIII**	**05 21 54 30**±2.7	**42.8N**±.24	**0.2E**±.11	**0**		**5**	**0-2**	
LDG	VIII	05 21 54 31.6	42.9N	0.2E		1.8L	**¶97viii0720**		
ISC	Poorly determined								
ISC	**VIII**	**07 20 15 42.3**±.54	**42.60N**±.034	**2.83E**±.030	**11**±4.9		**85**	**0-8**	
NEIC	VIII	07 20 15 42.2	42.59N	2.86E	10		**¶97viii0996**		
FBR	VIII	07 20 15 43.3	42.57N	2.78E	6	3.2D			

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
MDD	VIII 07 20 15 43.5	42.59N	2.80E	4	3.2		
LDG	VIII 07 20 15 43.9	42.6N	2.8E		3.7L		
STR	VIII 07 20 15 44.1	42.49N	2.76E	7	3.6L		
NEIC	mbLg 3.2 (MDD). Felt I=IV MM in the southeastern Pyrenees.						
MDD	Felt I=III MSK at Perpignan, France						
ISC	**VIII 07 20 36 01.3**±.46	**42.68N**±.036	**2.93E**±.047	**10**		**30**	**0-5**
NEIC	VIII 07 20 36 01.6	42.61N	2.91E	10			¶97viii1000
MDD	VIII 07 20 36 03.0	42.59N	2.82E	5	3.3		
LDG	VIII 07 20 36 03.4	42.6N	2.8E		2.8L		
NEIC	mbLg3.3(MDD)						
MDD	Felt I=II MSK at Perpignan, France						
ISC	**VIII 08 13 48 20**±1.8	**42.57N**±.081	**2.8E**±.17	**0**		**6**	**0-1**
MDD	VIII 08 13 48 20.5	42.57N	2.81E		2.9		¶97viii1123
ISC	**VIII 09 03 03 41.5**±.64	**43.25N**±.059	**0.44W**±.061	**13**		**14**	**0-4**
LDG	VIII 09 03 03 43.0	43.1N	0.5W		2.0L		¶97viii1193
MDD	VIII 09 03 03 43.6	43.12N	0.49W	13	2.6		
NEIC	VIII 09 03 03 44.2	43.03N	0.40W	5			
NEIC	Poor solution.						
ISC	**VIII 10 00 54 06.6**±.94	**42.65N**±.046	**2.80E**±.094	**4**		**13**	**0-4**
MDD	VIII 10 00 54 08.2	42.60N	2.84E	4	2.7		¶97viii1328
LDG	VIII 10 00 54 08.4	42.6N	2.8E		2.1L		
ISC	**VIII 10 02 08 39.9**±.83	**43.16N**±.070	**0.72W**±.073	**10**		**10**	**0-2**
NEIC	VIII 10 02 08 40.3	43.08N	0.75W	10			¶97viii1338
LDG	VIII 10 02 08 41.3	43.1N	0.7W		1.8L		
NEIC	$M_{L1.4}$(STR).						
LDG	**VIII 11 20 34 58.4**	**43.0N**	**0.3W**		**2.1L**		¶97viii1624
ISC	**VIII 13 12 37 58.2**±.85	**42.71N**±.065	**0.84E**±.072	**4**±15		**11**	**0-4**
MDD	VIII 13 12 37 58.5	42.65N	0.85E	3	2.5		¶97viii1907
LDG	VIII 13 12 38 00.0	42.7N	0.9E		2.6L		
NEIC	VIII 13 12 38 01.0	42.96N	0.80E	10			
NEIC	Poor solution.						
LDG	**VIII 14 23 48 02.7**	**43.1N**	**0.8W**		**1.7L**		¶97viii2131
ISC	**VIII 15 01 47 10**±1.7	**43.17N**±.084	**0.5W**±.17	**0**		**5**	**0-3**
LDG	VIII 15 01 47 11.3	43.1N	0.5W		1.9L		¶97viii2142
NEIC	VIII 15 01 47 12.7	42.88N	0.41W	5			
NEIC	Single network solution.						
LDG	**VIII 16 19 54 08.0**	**42.9N**	**0.2W**		**2.0L**		¶97viii2413
LDG	**VIII 18 19 44 32.7**	**43.6N**	**0.2W**		**2.2L**		¶97viii2708
LDG	**VIII 18 21 48 31.1**	**43.7N**	**0.3W**		**2.0L**		¶97viii2715
ISC	**VIII 20 14 34 15.1**±.75	**43.09N**±.055	**0.32W**±.061	**0**		**14**	**0-4**
LDG	VIII 20 14 34 16.0	43.1N	0.4W		2.5L		¶97viii2973
LDG	**VIII 23 02 11 53.3**	**43.2N**	**0.3W**		**1.8L**		¶97viii3326
MDD	**VIII 25 14 11 53.0**	**42.80N**	**2.66E**		**1.8**		¶97viii3698
ISC	**VIII 30 14 37 05**±1.5	**43.47N**±.097	**0.6W**±.13	**4**±19		**9**	**0-2**
LDG	VIII 30 14 37 07.3	43.4N	0.6W		2.1L		¶97viii4498
LDG	**VIII 30 15 38 24.1**	**42.8N**	**1.8E**		**2.2L**		¶97viii4508
ISC	**VIII 30 23 15 18.8**±.78	**42.98N**±.070	**0.17W**±.057	**9**		**15**	**0-4**
LDG	VIII 30 23 15 18.8	42.9N	0.3W		2.2L		¶97viii4551
MDD	VIII 30 23 15 19.5	42.88N	0.23W	9	2.4		
MDD	**VIII 31 22 51 56.9**	**42.97N**	**0.11W**	**22**	**2.0**		¶97viii4723
ISC	**IX 03 00 39 44.2**±.71	**42.94N**±.066	**0.20W**±.056	**10**		**15**	**0-4**
LDG	IX 03 00 39 44.7	42.8N	0.2W		2.5L		¶97ix0356
NEIC	IX 03 00 39 44.7	42.92N	0.27W	10			
MDD	IX 03 00 39 44.8	42.86N	0.23W	4	2.6		
NEIC	$M_{L1.9}$(STR).						
ISC	**IX 03 05 07 36.6**±.63	**42.83N**±.039	**2.55E**±.088	**11**±7.4		**17**	**0-4**
LDG	IX 03 05 07 37.1	42.8N	2.5E		2.7L		¶97ix0382
MDD	IX 03 05 07 37.9	42.81N	2.56E	3	2.9		
NEIC	IX 03 05 07 38.1	42.92N	2.56E	10			
STR	IX 03 05 07 39.1	42.84N	2.57E	10	3.0L		
PIST	Felt I=II–III MSK at Saint Paul de Fenouillet						
ISC	**IX 03 19 57 27**±1.4	**42.81N**±.060	**2.6E**±.16	**13**±11		**9**	**0-3**
MDD	IX 03 19 57 28.6	42.78N	2.67E	8	2.3		¶97ix0471
LDG	IX 03 19 57 28.6	42.8N	2.7E		2.1L		
ISC	**IX 05 15 27 38**±1.1	**43.11N**±.088	**1.59W**±.087	**9**±6.6		**20**	**0-5**
NEIC	IX 05 15 27 38.0	43.21N	1.74W	10			¶97ix0761
MDD	IX 05 15 27 39.7	43.12N	1.61W	2	3.1		
LDG	IX 05 15 27 40.2	43.2N	1.7W		2.7L		
NEIC	mbLg3.2(MDD), Less reliable solution.						
ISC	**IX 05 21 58 59.9**±.79	**42.27N**±.056	**1.76E**±.054	**9**±6.7		**27**	**0-5**
NEIC	IX 05 21 58 57.5	42.07N	1.71E	10			¶97ix0802
MDD	IX 05 21 59 00.3	42.23N	1.70E	2	2.7		
LDG	IX 05 21 59 02.2	42.3N	1.8E		2.5L		
NEIC	Single network solution.						
ISC	**IX 08 17 41 14.2**±.61	**43.12N**±.072	**0.60W**±.051	**12**±6.7		**17**	**0-4**
MDD	IX 08 17 41 15.5	43.09N	0.63W	2	2.7		¶97ix1255
LDG	IX 08 17 41 16.4	43.1N	0.5W		2.6L		
ISC	**IX 11 19 19 53**±1.3	**43.2N**±.16	**1.03W**±.085	**5**±19		**7**	**0-1**
MDD	IX 11 19 19 53.4	43.15N	1.02W	9	2.6		¶97ix1724
ISC	**IX 13 23 30 31**±8.6	**43.0N**±.36	**0.3W**±.51	**0**		**10**	**0-5**
LDG	IX 13 23 30 37.7	43.0N	0.0E		2.6L		¶97ix2048
ISC	**IX 17 13 44 42.7**±.74	**42.68N**±.071	**2.06E**±.071	**13**		**9**	**0-1**
MDD	IX 17 13 44 43.5	42.69N	2.03E	13	2.8		¶97ix2515
LDG	**IX 17 23 17 00.4**	**42.9N**	**2.1E**		**2.1L**		¶97ix2575
ISC	**IX 21 23 07 53**±1.1	**42.75N**±.068	**0.7E**±.10	**5**		**9**	**0-2**
MDD	IX 21 23 07 53.5	42.73N	0.61E	5	2.4		¶97ix3180
LDG	IX 21 23 07 53.6	42.8N	0.6E		2.1L		
ISC	**IX 22 06 20 46.5**±.59	**42.48N**±.040	**1.53E**±.032	**2**±4.9		**52**	**0-7**
NEIC	IX 22 06 20 45.4	42.28N	1.42E	10			¶97ix3230
FBR	IX 22 06 20 47.0	42.44N	1.47E	4	2.6D		
MDD	IX 22 06 20 47.7	42.45N	1.47E	1	3.0		
STR	IX 22 06 20 49.3	42.58N	1.45E	5	3.5L		
LDG	IX 22 06 20 49.4	42.5N	1.5E		3.3L		
PIST	Felt I=I MSK in the Eastern Pyrenees						
NEIC	mbLg 3.0 (MDD).						
FBR	Felt I=III MSK Seu d'Urgell						
ISC	**IX 26 00 35 59**±1.1	**43.2N**±.11	**0.70W**±.055	**4**±11		**13**	**0-3**
MDD	IX 26 00 35 59.8	43.11N	0.71W	5	3.3		¶97ix3815
LDG	**IX 29 21 21 40.1**	**42.7N**	**2.1E**		**1.9L**		¶97ix5027
ISC	**X 01 02 54 19**±3.6	**43.0N**±.22	**1.8E**±.19	**0**		**4**	**0-2**
LDG	X 01 02 54 17.7	42.8N	2.0E		1.9L		¶97x0012
ISC	Poorly determined						
ISC	**X 08 12 17 49**±3.2	**43.4N**±.25	**1.6W**±.15	**10**		**11**	**0-2**
NEIC	X 08 12 17 48.5	43.37N	1.63W	10			¶97x1416
MDD	X 08 12 17 50.8	43.27N	1.66W	1	3.1		
NEIC	mbLg3.1(MDD), M_L2.5(STR), Less reliable solution.						
ISC	**X 09 02 38 55.9**±.40	**43.13N**±.039	**0.65W**±.051	**19**±4.8		**32**	**0-5**
NEIC	X 09 02 38 55.3	43.22N	0.63W	10			¶97x1510
LDG	X 09 02 38 56.3	43.1N	0.6W		3.0L		
MDD	X 09 02 38 56.8	43.15N	0.65W	6	3.0		
NEIC	mbLg3.0(MDD)						
NEIC	ML 2.8 (STR).						
ISC	**X 10 15 12 18.4**±.81	**42.96N**±.078	**0.21W**±.047	**0**		**13**	**0-3**
LDG	X 10 15 12 18.6	42.9N	0.3W		2.3L		¶97x1766
ISC	**X 11 07 39 03**±2.4	**42.8N**±.25	**0.2E**±.12	**0**		**4**	**0-2**
LDG	X 11 07 39 05.0	43.0N	0.2E		2.1L		¶97x1861
ISC	Poorly determined						
ISC	**X 12 03 40 57.1**±.56	**42.20N**±.045	**0.99E**±.053	**10**		**28**	**0-5**
NEIC	X 12 03 40 56.8	42.19N	0.97E	10			¶97x1982
LDG	X 12 03 40 57.0	42.1N	1.0E		2.8L		
MDD	X 12 03 40 57.7	42.18N	0.95E	1	3.0		
NEIC	mbLg3.0(MDD)						
NEIC	ML 2.8 (STR).						
ISC	**X 15 20 38 20.6**±.53	**42.93N**±.042	**0.18E**±.045	**5**		**20**	**0-6**
NEIC	X 15 20 38 20.1	42.88N	0.13E	5			¶97x2713
LDG	X 15 20 38 20.5	43.0N	0.1E		2.3L		
MDD	X 15 20 38 21.1	43.01N	9.70W	2	2.9		
PIST	Felt I=III MSK Ossau Valley						
NEIC	Single network solution.						
ISC	**X 15 21 01 16**±1.0	**43.16N**±.092	**0.35W**±.091	**0**		**8**	**0-4**
LDG	X 15 21 01 17.3	43.1N	0.4W		2.2L		¶97x2719
ISC	**X 15 21 06 12**±1.6	**43.2N**±.17	**0.4W**±.10	**0**		**6**	**0-2**
LDG	X 15 21 06 13.1	43.1N	0.4W		1.7L		¶97x2720
ISC	Poorly determined						
MDD	**X 17 00 30 35.3**	**43.09N**	**0.84W**	**19**	**2.3**		¶97x2908
ISC	**X 17 19 24 12**±1.0	**43.12N**±.094	**0.37W**±.091	**0**		**6**	**0-3**
LDG	X 17 19 24 13.3	43.0N	0.4W		2.2L		¶97x3047
PIST	Felt I=III MSK Castet/Ossau						
ISC	**X 19 22 31 46.6**±.84	**43.14N**±.075	**0.67W**±.060	**11**±12		**12**	**0-3**
NEIC	X 19 22 31 46.9	43.09N	0.70W	10			¶97x3398
LDG	X 19 22 31 47.7	43.1N	0.7W		2.1L		
NEIC	$M_{L2.0}$(STR).						
ISC	**X 21 09 28 12**±1.7	**43.2N**±.21	**0.08W**±.094	**0**		**4**	**0-2**
LDG	X 21 09 28 13.3	43.0N	0.1W		2.3L		¶97x3630
ISC	Poorly determined						
ISC	**X 22 15 16 01**±13	**42.2N**±.77	**1.6E**±.43	**0**		**5**	**1-3**
LDG	X 22 15 16 07.4	42.6N	1.5E		2.2L		¶97x3837
ISC	Poorly determined						
ISC	**X 23 07 38 04.9**±.63	**42.65N**±.045	**1.95E**±.055	**10**±7.6		**19**	**0-4**
LDG	X 23 07 38 05.9	42.5N	1.9E		2.6L		¶97x3946
MDD	X 23 07 38 06.6	42.58N	1.95E	4	2.6		
LDG	**X 23 08 58 09.1**	**42.6N**	**1.8W**		**2.4L**		¶97x3953
ISC	**X 24 09 49 28**±1.1	**43.0N**±.10	**1.57W**±.086	**4**±22		**12**	**0-1**
LDG	X 24 09 49 27.2	43.2N	1.7W		2.9L		¶97x4144
MDD	X 24 09 49 29.2	43.05N	1.64W	3	3.0		
NEIC	**X 25 08 43 12.3**	**42.99N**	**0.39W**	**5**			**0-3**
LDG	X 25 08 43 11.9	43.0N	0.4W		2.3L		¶97x4298
NEIC	Single network solution.						
MDD	**X 27 04 19 23.0**	**43.63N**	**0.50W**		**2.4**		¶97x4568
ISC	**X 29 08 50 59.4**±.96	**43.46N**±.068	**0.57W**±.075	**8**±13		**14**	**0-2**
MDD	X 29 08 51 00.3	43.45N	0.58W	9	2.5		¶97x4884
NEIC	X 29 08 51 00.8	43.35N	0.54W	5			
LDG	X 29 08 51 01.0	43.4N	0.6W		2.4L		
NEIC	Single network solution.						
ISC	**X 30 05 07 43.0**±.63	**42.73N**±.051	**0.15E**±.047	**8**±6.9		**23**	**0-4**
NEIC	X 30 05 07 42.8	42.68N	0.14E	5			¶97x4994
LDG	X 30 05 07 43.7	42.8N	0.2E		2.8L		
MDD	X 30 05 07 43.9	42.75N	0.58W	4	2.7		
PIST	Felt I=I MSK Cauterets						
NEIC	$M_{L2.2}$(STR).						
ISC	**X 30 14 33 33.8**±.94	**42.9N**±.11	**0.33E**±.062	**5**		**12**	**0-2**
NEIC	X 30 14 33 34.3	42.89N	0.30E	5			¶97x5054
LDG	X 30 14 33 34.7	42.9N	0.3E		2.3L		
NEIC	$M_{L2.1}$(STR).						
ISC	**X 31 03 36 47**±1.1	**43.21N**±.086	**0.50W**±.096	**0**		**6**	**0-3**
LDG	X 31 03 36 48.5	43.1N	0.5W		2.0L		¶97x5121
LDG	**X 31 11 46 48.7**	**42.6N**	**1.9W**		**2.2L**		¶97x5173
ISC	**X 31 23 06 42**±1.5	**43.1N**±.14	**0.5W**±.10	**0**		**6**	**0-3**
LDG	X 31 23 06 43.6	43.1N	0.6W		1.9L		¶97x5237
ISC	Poorly determined						
ISC	**XI 01 18 43 14.7**±.78	**42.83N**±.054	**2.61E**±.069	**10**		**17**	**0-5**
LDG	XI 01 18 43 17.6	42.9N	2.5E		2.4L		¶97xi0123
NEIC	XI 01 18 43 22.5	42.90N	2.41E	10			
NEIC	Single network solution.						
ISC	**XI 02 16 55 35.9**±.75	**42.65N**±.056	**1.95E**±.064	**1**		**13**	**0-3**
MDD	XI 02 16 55 37.7	42.5N	1.9E	1	2.0b		¶97xi0301
LDG	XI 02 16 55 38.2	42.6N	1.9E		2.4L		
ISC	**XI 06 00 25 27.0**±.66	**43.15N**±.061	**0.06W**±.058	**5**		**10**	**0-2**
NEIC	XI 06 00 25 27.9	43.06N	0.14W	5			¶97xi0887
LDG	XI 06 00 25 28.0	43.1N	0.1W		2.0L		
NEIC	Poor solution.						
ISC	**XI 09 20 53 31**±5.9	**42.4N**±.44	**1.0E**±.16	**0**		**6**	**1-3**
LDG	XI 09 20 53 32.9	42.5N	1.0E		2.2L		¶97xi1509
ISC	Poorly determined						
ISC	**XI 16 03 04 18.0**±.73	**43.05N**±.070	**0.53W**±.068	**10**		**11**	**0-3**
LDG	XI 16 03 04 17.8	43.2N	0.5W		2.0L		¶97xi2588
NEIC	XI 16 03 04 18.2	43.05N	0.56W	10			
ISC	**XI 18 03 43 42.3**±.77	**43.13N**±.086	**0.45W**±.059	**10**		**10**	**0-2**
LDG	XI 18 03 43 40.9	42.7N	0.5W		2.2L		¶97xi2906
NEIC	XI 18 03 43 42.4	43.11N	0.47W	10			
NEIC	$M_{L1.5}$(STR).						
LDG	**XI 18 17 09 21.5**	**42.8N**	**0.5W**		**2.0L**		¶97xi3014
ISC	**XI 19 03 46 26**±1.1	**42.35N**±.073	**1.09E**±.096	**0**		**6**	**0-2**
MDD	XI 19 03 46 26.9	42.4N	1.1E	0	2.3b		¶97xi3130
ISC	**XI 20 12 26 01.5**±.74	**43.39N**±.064	**0.18W**±.091	**5**±18		**12**	**0-2**
NEIC	XI 20 12 26 02.4	43.30N	0.21W	5			¶97xi3463
LDG	XI 20 12 26 02.7	43.3N	0.2W		2.5L		
NEIC	Single network solution.						
ISC	**XI 22 12 26 37.1**±.59	**42.98N**±.040	**3.00E**±.054	**10**		**23**	**0-4**
LDG	XI 22 12 26 38.4	42.8N	2.9E		2.6L		¶97xi3872
NEIC	XI 22 12 26 42.4	42.70N	2.77E	10			
STR	XI 22 12 26 43.0	42.65N	2.77E	6	3.5L		
ISC	**XI 22 23 24 18**±1.9	**42.9N**±.15	**0.7E**±.10	**0**		**6**	**0-2**
LDG	XI 22 23 24 19.2	42.7N	0.7E		2.1L		¶97xi3982
ISC	**XI 24 10 07 34**±1.8	**43.1N**±.11	**0.77W**±.082	**11**±17		**9**	**0-1**
NEIC	XI 24 10 07 34.4	43.13N	0.77W	10			¶97xi4295
LDG	XI 24 10 07 35.0	42.9N	0.9W		1.9L		
NEIC	$M_{L1.8}$(STR).						

ISC XI 24 19 34 42±3.7 **43.3N**±.30 **0.8W**±.16 **5** **5 0-1**
MDD XI 24 19 34 44.0 43.1N 0.9W 5 2.2b **¶97xi4373**
NEIC XI 27 02 06 32.0 42.41N 0.16E 5 **1-2**
LDG XI 27 02 06 28.0 42.1N 0.3E 1.8L **¶97xi4779**
NEIC Poor solution.
ISC XII 01 02 01 54.7±.68 **42.85N**±.060 **0.76W**±.050 **10** **20 0-4**
NEIC XII 01 02 01 55.3 42.87N 0.79W 10 **¶97xii0011**
LDG XII 01 02 01 55.5 43.0N 0.7W 2.4L
MDD XII 01 02 01 55.9 42.9N 0.8W 11 2.7b
NEIC M_{L}2.1(STR).
ISC XII 03 03 10 21.0±.61 **43.18N**±.048 **0.66W**±.050 **13**±9.6 **22 0-4**
LDG XII 03 03 10 22.6 43.1N 0.7W 2.8L **¶97xii0355**
MDD XII 03 03 10 22.8 43.1N 0.7W 2 2.6b
ISC XII 04 22 51 45.5±.37 **43.50N**±.023 **0.65W**±.031 **12**±2.8 **97 0-8**
NEIC XII 04 22 51 44.8 43.54N 0.68W 5 **¶97xii0712**
MDD XII 04 22 51 47.2 43.5N 0.6W 1 3.4b
LDG XII 04 22 51 47.2 43.4N 0.7W 4.1L
STR XII 04 22 51 47.4 43.44N 0.63W 1 3.8L
NEIC Felt I=IV MM in the Lacq Oilfield area, France.
ISC XII 06 03 46 36.1±.82 **43.07N**±.096 **0.71W**±.060 **10**±9.5 **10 0-2**
LDG XII 06 03 46 36.9 43.0N 0.7W **¶97xii1233**
MDD XII 06 03 46 37.3 43.1N 0.7W 2 1.6b
ISC XII 06 20 32 58.8±.39 **43.51N**±.027 **0.61W**±.035 **11**±3.5 **78 0-8**
NEIC XII 06 20 32 58.8 43.53N 0.63W 10 **¶97xii1517**
MDD XII 06 20 33 00.3 43.5N 0.6W 0 3.0b
STR XII 06 20 33 00.7 43.44N 0.63W 3 3.5L
LDG XII 06 20 33 01.0 43.4N 0.7W 3.4L
PIST Felt I=III MSK at Lacq, oilfield induced
ISC XII 07 10 06 54.4±.61 **43.05N**±.061 **0.73W**±.048 **0** **13 0-2**
MDD XII 07 10 06 55.0 43.1N 0.7W 0 1.8b **¶97xii1672**
LDG XII 07 10 06 55.1 43.0N 0.7W 1.9L
ISC XII 07 22 48 05±2.2 **43.4N**±.14 **1.5W**±.11 **3** **11 0-3**
LDG XII 07 22 48 06.7 43.0N 1.5W 2.1L **¶97xii1802**
MDD XII 07 22 48 07.9 43.2N 1.4W 3 1.9b
ISC XII 08 03 16 21.3±.61 **43.14N**±.068 **0.66W**±.052 **10** **13 0-2**
LDG XII 08 03 16 21.9 43.0N 0.7W 2.1L **¶97xii1850**
NEIC XII 08 03 16 21.9 43.06N 0.69W 10
MDD XII 08 03 16 22.7 43.1N 0.7W 2 1.8b
NEIC M_{L}1.6(STR).
ISC XII 09 16 42 37.4±.91 **43.11N**±.084 **0.58W**±.068 **0** **11 0-3**
LDG XII 09 16 42 38.5 43.0N 0.6W 2.1L **¶97xii2203**
ISC XII 10 04 45 19.6±.51 **43.13N**±.045 **0.19W**±.039 **3**±8.9 **22 0-3**
NEIC XII 10 04 45 20.7 43.05N 0.23W 5 **¶97xii2292**
LDG XII 10 04 45 20.8 43.1N 0.2W 2.3L
MDD XII 10 04 45 21.2 43.1N 0.2W 2 2.1b
NEIC M_{L}1.9(STR).
ISC XII 13 00 36 10.2±.60 **43.53N**±.039 **0.57W**±.061 **5** **27 0-5**
MDD XII 13 00 36 12.1 43.5N 0.5W 0 2.3b **¶97xii2849**
LDG XII 13 00 36 12.1 43.4N 0.6W 2.8L
NEIC XII 13 00 36 12.4 43.41N 0.54W 5
NEIC M_{L}2.3(STR).
ISC XII 17 17 05 46.4±.41 **43.17N**±.033 **0.41W**±.039 **11**±4.1 **45 0-6**
NEIC XII 17 17 05 46.3 43.21N 0.41W 5 **¶97xii3636**
STR XII 17 17 05 47.4 43.1N 0.42W 5 3.6L
LDG XII 17 17 05 47.7 43.1N 0.4W 3.6L
MDD XII 17 17 05 48.0 43.1N 0.4W 1 3.0b
NEIC Felt I=III MM in the Ossau Valley, France.
ISC XII 18 11 19 27±4.5 **42.3N**±.27 **0.11W**±.098 **0** **10 1-3**
LDG XII 18 11 19 26.8 42.2N 0.2W 2.7L **¶97xii3755**
LDG XII 18 15 54 14.4 42.6N 0.5E 2.2L **¶97xii3790**
ISC XII 19 12 27 30.7±.83 **43.00N**±.072 **1.47W**±.075 **10**±9.6 **13 0-3**
NEIC XII 19 12 27 27.8 42.99N 1.69W 5 **¶97xii3958**
LDG XII 19 12 27 31.5 43.0N 1.5W 2.6L
NEIC M_{L}2.4(STR), Poor solution.
ISC XII 20 07 16 13±1.2 **42.81N**±.080 **2.1E**±.11 **0** **6 0-2**
LDG XII 20 07 16 14.2 42.8N 2.2E 2.3L **¶97xii4094**
ISC XII 21 13 48 55.2±.44 **42.85N**±.040 **0.68E**±.034 **6**±7.1 **34 0-5**
LDG XII 21 13 48 56.1 42.7N 0.6E 2.8L **¶97xii4259**
NEIC XII 21 13 48 56.4 42.83N 0.65E 5
MDD XII 21 13 48 56.8 42.7N 0.7E 0 2.6b
NEIC M_{L}2.4(STR).
LDG XII 21 15 55 16.0 42.7N 0.6E 1.9L **¶97xii4271**
LDG XII 21 15 57 16.7 42.7N 0.6E 1.9L **¶97xii4273**
ISC XII 22 04 22 24±1.1 **43.44N**±.073 **0.6W**±.11 **10**±14 **10 0-2**
NEIC XII 22 04 22 23.3 43.47N 0.61W 5 **¶97xii4352**
LDG XII 22 04 22 25.2 43.4N 0.6W 2.3L
NEIC Single network solution.
ISC XII 31 17 50 03.3±.56 **42.45N**±.048 **1.47E**±.040 **2** **28 0-4**
MDD XII 31 17 50 05.1 42.5N 1.5E 2 2.5b **¶97xii5936**
LDG XII 31 17 50 05.6 42.5N 1.5E 2.9L
NEIC XII 31 17 50 08.3 42.87N 1.34E 5
NEIC M_{L}2.9(LDG), M_{L}2.8(STR), Less reliable solution.

(379) Near south coast of France.

ISC VII 01 10 36 15±2.0 **43.1N**±.15 **5.98E**±.080 **0** **13 0-1**
NEIC VII 01 10 36 16.8 43.20N 5.92E 10 **¶97vii0068**
NEIC M_{L}2.7(STR), Single network solution.
NEIC Mining induced event in the Gardanne area.
ISC VII 01 18 15 17.9±.78 **43.44N**±.052 **5.48E**±.069 **0** **17 0-2**
NEIC VII 01 18 15 17.7 43.42N 5.40E 10 **¶97vii0123**
STR VII 01 18 15 18.4 43.41N 5.46E 1 3.0L
NEIC Single network solution.
NEIC Mining induced event in the Gardanne area.
ISC VII 02 16 25 47.6±.75 **43.46N**±.052 **5.50E**±.070 **0** **15 0-2**
NEIC VII 02 16 25 47.4 43.45N 5.43E 10 **¶97vii0266**
NEIC M_{L}2.6(STR), Single network solution.
NEIC Mining induced event in the Gardanne area.
ISC VII 04 12 08 38.7±.41 **43.97N**±.031 **7.32E**±.046 **7**±4.3 **40 0-4**
ROM VII 04 12 08 37.8 44.0N 7.3E 5 2.8D **¶97vii0557**
NEIC VII 04 12 08 38.7 43.96N 7.35E 10
STR VII 04 12 08 39.5 43N 7.31E 1 3.1L
LDG VII 04 12 08 39.8 43.9N 7.3E 2.9L
ISC VII 07 17 30 42.5±.82 **43.43N**±.054 **5.48E**±.080 **1**±7.6 **20 0-2**
STR VII 07 17 30 42.7 43.43N 5.41E 1 3.0L **¶97vii1070**
ISC VII 08 02 34 33±4.0 **43.7N**±.45 **7.3E**±.54 **0** **4 0-1**
LDG VII 08 02 34 33.7 43.8N 7.3E 2.5L **¶97vii1128**
ISC Poorly determined
LDG VII 08 17 31 58.6 43.9N 7.8E 1.7L **¶97vii1213**
ISC VII 08 18 45 39.8±.67 **43.74N**±.044 **7.55E**±.052 **14**±4.3 **34 0-2**
NEIC VII 08 18 45 38.2 43.72N 7.75E 5 **¶97vii1219**
LDG VII 08 18 45 39.2 43.7N 7.7E 2.4L
NEIC M_{D}2.2(STR), Single network solution.
LDG VII 09 02 03 04.8 43.9N 7.6E 1.4L **¶97vii1273**
STR VII 09 02 03 05.7 43.91N 7.49E 7 0.5L
ISC VII 10 14 17 58.3±.34 **43.94N**±.033 **7.27E**±.035 **14**±3.9 **39 0-4**
ROM VII 10 14 17 58.6 44.0N 7.3E 10 2.4D **¶97vii1521**
NEIC VII 10 14 17 58.7 43.96N 7.32E 10
LDG VII 10 14 17 59.0 43.9N 7.3E 2.7L
NEIC M_{L}2.7(STR)
ISC VII 12 09 00 09±1.4 **43.41N**±.082 **5.4E**±.13 **9**±6.5 **15 0-2**
STR VII 12 09 00 10.2 43.41N 5.46E 1 3.0L **¶97vii1796**
ISC VII 15 22 31 49.9±.93 **43.62N**±.053 **7.86E**±.077 **5** **14 0-1**
NEIC VII 15 22 31 50.5 43.58N 7.86E 5 **¶97vii2361**
LDG VII 15 22 31 51.3 43.6N 7.8E 1.7L
NEIC Single network solution.
ISC VII 18 03 27 56.9±.67 **43.81N**±.065 **7.04E**±.078 **0** **11 0-1**
LDG VII 18 03 27 57.4 43.8N 7.1E 2.1L **¶97vii2688**
LDG VII 22 23 54 08.2 43.9N 6.3E 2.0L **¶97vii3454**
ISC VII 28 07 36 03±1.1 **43.85N**±.063 **7.3E**±.10 **5** **7 0-2**
LDG VII 28 07 36 01.4 43.8N 7.6E 2.3L **¶97vii4230**
NEIC VII 28 07 36 03.4 43.81N 7.38E 5
NEIC Single network solution.
LDG VIII 03 08 56 44.6 43.9N 3.2E 2.0L **¶97viii0341**
ISC VIII 04 12 26 26±2.4 **43.59N**±.099 **3.8E**±.16 **1**±27 **14 1-4**
NEIC VIII 04 12 26 26.8 43.59N 3.88E 5 **¶97viii0507**
MDD VIII 04 12 26 28.4 43.54N 3.84E 8 2.2
LDG VIII 04 12 26 28.5 43.5N 3.8E 2.6L
NEIC Single network solution.
ISC VIII 05 06 03 18±1.6 **43.44N**±.094 **5.5E**±.13 **9**±7.2 **14 0-2**
¶97viii0622
ISC VIII 08 08 44 04±1.5 **43.46N**±.092 **5.5E**±.13 **10**±6.3 **17 0-2**
STR VIII 08 08 44 04.7 43.46N 5.46E 1 3.1L **¶97viii1080**
ISC VIII 11 00 13 53±1.1 **43.5N**±.10 **4.29E**±.081 **11**±15 **11 1-3**
NEIC VIII 11 00 13 54.6 43.37N 4.47E 10 **¶97viii1480**
LDG VIII 11 00 13 54.8 43.6N 4.3E 2.0L
NEIC M_{L}2.1(STR)
ISC VIII 13 08 21 43±1.6 **43.46N**±.090 **5.4E**±.12 **7**±7.0 **16 0-2**
¶97viii1877
ISC VIII 14 00 55 36.3±.50 **43.99N**±.032 **7.26E**±.047 **11**±6.9 **24 0-2**
NEIC VIII 14 00 55 36.7 43.98N 7.29E 5 **¶97viii1989**
LDG VIII 14 00 55 36.8 44.0N 7.3E 1.6L
NEIC M_{L}2.1(GEN)
ISC VIII 16 07 21 55±1.3 **43.51N**±.090 **7.21E**±.089 **5** **17 0-1**
NEIC VIII 16 07 21 55.4 43.55N 7.19E 5 **¶97viii2329**
LDG VIII 16 07 21 56.3 43.5N 7.2E 2.1L
ISC VIII 16 11 20 14.3±.49 **43.91N**±.036 **7.74E**±.044 **10**±3.7 **49 0-5**
LDG VIII 16 11 20 14.7 43.8N 7.8E 2.9L **¶97viii2356**
NEIC VIII 16 11 20 14.7 43.93N 7.76E 5
STR VIII 16 11 20 16.0 43.91N 7.67E 2 3.1L
NEIC M_{L}3.1(GEN)
ISC VIII 16 11 27 29.5±.64 **43.93N**±.045 **7.69E**±.060 **5** **13 0-1**
NEIC VIII 16 11 27 29.6 43.94N 7.71E 5 **¶97viii2357**
LDG VIII 16 11 27 30.3 43.9N 7.7E 1.5L
NEIC M_{L}2.1(GEN)
ISC VIII 17 01 47 42.5±.78 **43.90N**±.065 **7.68E**±.070 **13**±8.2 **13 0-1**
LDG VIII 17 01 47 42.8 43.9N 7.7E 1.4L **¶97viii2452**
NEIC VIII 17 01 47 42.9 43.93N 7.69E 5
NEIC M_{L}1.8(GEN)
ISC VIII 18 09 01 52±1.2 **43.83N**±.065 **7.4E**±.12 **5** **9 0-2**
NEIC VIII 18 09 01 51.4 43.74N 7.49E 5 **¶97viii2650**
LDG VIII 18 09 01 51.5 43.8N 7.5E 2.3L
NEIC Poor solution.
ISC VIII 21 08 20 44±5.7 **43.8N**±.15 **7.4E**±.48 **8**±38 **8 0-2**
NEIC VIII 21 08 20 44.0 43.77N 7.43E 5 **¶97viii3070**
LDG VIII 21 08 20 44.2 43.8N 7.5E 2.3L
NEIC Single network solution.
ISC VIII 21 08 55 06±1.7 **43.4N**±.12 **5.5E**±.15 **13**±7.0 **14 0-2**
¶97viii3076
ISC VIII 23 18 54 52.7±.82 **43.92N**±.047 **6.8E**±.11 **5** **8 0-2**
NEIC VIII 23 18 54 53.6 43.86N 6.83E 5 **¶97viii3440**
LDG VIII 23 18 54 53.7 43.9N 6.8E 1.9L
NEIC Single network solution.
ISC VIII 23 23 44 44.3±.59 **43.74N**±.043 **7.00E**±.053 **8**±6.8 **22 0-2**
NEIC VIII 23 23 44 44.3 43.69N 7.06E 5 **¶97viii3465**
LDG VIII 23 23 44 44.7 43.7N 7.1E 2.0L
ISC VIII 27 08 20 48±1.1 **43.50N**±.064 **7.47E**±.079 **11**±8.0 **18 0-2**
LDG VIII 27 08 20 48.4 43.5N 7.5E 2.2L **¶97viii3958**
ISC VIII 27 09 57 55±3.4 **43.1N**±.16 **5.3E**±.23 **0** **12 0-2**
STR VIII 27 09 58 00.9 43.48N 5.54E 1 3.1L **¶97viii3971**
ISC Possible rockburst (after LDG)
LDG VIII 31 20 56 09.9 43.7N 7.6E 1.5L **¶97viii4707**
STR IX 02 15 15 43.5 43.46N 5.44E 1 3.2L **¶97ix0292**
ISC IX 05 08 57 17.5±.57 **43.83N**±.036 **7.79E**±.041 **8**±3.6 **59 0-5**
NEIC IX 05 08 57 16.6 43.79N 7.81E 5 **¶97ix0718**
LDG IX 05 08 57 17.8 43.7N 7.8E 3.4L
STR IX 05 08 57 19.0 43.87N 7.72E 2 3.3L
ROM IX 05 08 57 20.2 44.1N 7.7E 5 2.9D
NEIC M_{L}3.3(GEN).
LDG IX 05 10 20 44.5 43.8N 7.8E 1.6L **¶97ix0733**
ISC IX 09 15 01 43±4.6 **43.8N**±.33 **7.8E**±.13 **14**±8.0 **9 0-1**
NEIC IX 09 15 01 42.4 43.75N 7.76E 10 **¶97ix1397**
NEIC M_{L}2.3(GEN), Single network solution.
ISC IX 11 14 01 00±2.2 **43.7N**±.13 **7.9E**±.11 **10**±6.3 **20 0-1**
NEIC IX 11 14 01 00.1 43.72N 7.88E 10 **¶97ix1687**
NEIC M_{L}2.6(GEN), M_{L}2.0(STR).
ISC IX 16 13 10 31±1.7 **43.9N**±.10 **7.9E**±.13 **5** **6 0-2**
NEIC IX 16 13 10 30.9 43.86N 7.93E 5 **¶97ix2388**
LDG IX 16 13 10 31.7 43.9N 7.9E 2.1L
NEIC Single network solution.
ISC IX 19 10 44 40±7.0 **43.9N**±.83 **7.3E**±.32 **0** **5 0-1**
LDG IX 19 10 44 38.7 43.9N 7.4E 1.6L **¶97ix2780**
ISC Poorly determined
ISC IX 19 14 25 26.0±.82 **43.61N**±.092 **3.77E**±.074 **10** **14 1-3**
NEIC IX 19 14 25 27.1 43.43N 3.89E 10 **¶97ix2800**
LDG IX 19 14 25 27.4 43.6N 3.8E 2.6L
NEIC M_{L}2.4(STR).
STR IX 19 23 55 51.5 43.48N 5.48E 1 3.0L **¶97ix2872**
ISC IX 21 06 27 33.6±.42 **43.77N**±.037 **6.64E**±.043 **8**±7.1 **24 0-2**
NEIC IX 21 06 27 33.8 43.70N 6.67E 10 **¶97ix3051**
LDG IX 21 06 27 34.1 43.7N 6.7E 2.3L
NEIC M_{L}2.1(STR).

Agency		Origin Time			ϕ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
ISC	**IX**	**26**	**12 23**	**12**±1.2	**43.91N**±.051	**7.95E**±.098	**5**		**23**	**0-3**
LDG	IX	26	12 23	13.2	43.9N	7.9E		2.7L		¶97ix3989
NEIC	IX	26	12 23	13.4	43.81N	7.87E	5			
NEIC	$M_{L2.5}$(STR).									
ISC	**IX**	**26**	**15 08**	**15**±1.2	**43.92N**±.050	**7.94E**±.099	**5**		**24**	**0-3**
LDG	IX	26	15 08	16.3	43.8N	7.9E		2.7L		¶97ix4053
NEIC	IX	26	15 08	16.7	43.83N	7.87E	5			
NEIC	$M_{L2.6}$(STR).									
LDG	**IX**	**29**	**18 25**	**35.1**	**43.8N**	**7.6E**		**1.8L**		¶97ix5003
NEIC	IX	29	18 25	34.3	43.72N	7.61E	5			
NEIC	Poor solution.									
ISC	**IX**	**29**	**23 53**	**56**±7.3	**43.3N**±.47	**6.6E**±.15	**5**		**4**	**0-1**
LDG	IX	29	23 53	55.7	43.2N	6.6E		2.0L		¶97ix5066
NEIC	IX	29	23 53	55.9	43.25N	6.63E	5			
ISC	Poorly determined									
NEIC	Poor solution.									
ISC	**IX**	**30**	**01 23**	**07**±8.4	**43.2N**±.52	**6.6E**±.16	**5**		**4**	**0-1**
LDG	IX	30	01 23	07.5	43.2N	6.6E		2.1L		¶97ix5087
NEIC	IX	30	01 23	07.5	43.24N	6.65E	5			
ISC	Poorly determined									
NEIC	Poor solution.									
ISC	**X**	**06**	**16 17**	**53.6**±.58	**43.97N**±.036	**7.78E**±.055	**5**		**18**	**0-2**
NEIC	X	06	16 17	52.0	43.98N	7.96E	5			¶97x1078
LDG	X	06	16 17	53.3	44.0N	7.9E		2.2L		
NEIC	Single network solution.									
ISC	**X**	**09**	**20 45**	**12.8**±.64	**43.96N**±.057	**7.49E**±.072	**14**±8.1		**13**	**0-1**
LDG	X	09	20 45	09.9	44.2N	7.6E		2.0L		¶97x1640
NEIC	X	09	20 45	13.1	43.98N	7.51E	10			
NEIC	$M_{L2.0}$(GEN).									
STR	**X**	**10**	**02 23**	**52.9**	**43.43N**	**5.43E**	**1**	**3.0L**		¶97x1678
ISC	**X**	**23**	**22 22**	**45.9**±.87	**43.70N**±.054	**7.67E**±.072	**12**±6.7		**21**	**0-2**
NEIC	X	23	22 22	45.9	43.69N	7.75E	10			¶97x4074
LDG	X	23	22 22	46.2	43.8N	7.7E		2.2L		
NEIC	$M_{L2.3}$(GEN)									
STR	**XI**	**03**	**09 58**	**38.6**	**43.37N**	**5.42E**	**1**	**3.0L**		¶97xi0450
ISC	**XI**	**05**	**19 54**	**55**±1.2	**44.00N**±.049	**7.8E**±.10	**5**		**15**	**0-2**
NEIC	XI	05	19 54	56.0	43.88N	7.73E	5			¶97xi0853
LDG	XI	05	19 54	56.4	43.9N	7.7E		2.1L		
NEIC	Single network solution.									
ISC	**XI**	**13**	**08 14**	**02**±5.9	**43.9N**±.30	**7.6E**±.19	**23**±54		**8**	**0-1**
NEIC	XI	13	08 14	02.8	43.97N	7.59E	10			¶97xi2098
NEIC	M_L2.0(GEN), Single network solution.									
ISC	**XI**	**19**	**09 39**	**28**±2.0	**43.79N**±.097	**7.4E**±.19	**5**		**6**	**0-2**
LDG	XI	19	09 39	26.3	43.7N	7.6E		2.2L		¶97xi3185
NEIC	XI	19	09 39	27.1	43.75N	7.50E	5			
NEIC	Poor solution.									
ISC	**XI**	**28**	**15 02**	**00.5**±.95	**43.42N**±.054	**5.45E**±.094	**0**		**8**	**0-1**
NEIC	XI	28	15 02	00.2	43.41N	5.44E	5			¶97xi5105
NEIC	M_L2.5(STR), Single network solution.									
NEIC	Mining induced event in the Gardanne area.									
ISC	**XII**	**02**	**15 58**	**52.8**±.84	**43.43N**±.053	**5.46E**±.077	**0**		**13**	**0-2**
NEIC	XII	02	15 58	52.6	43.42N	5.44E	5			¶97xii0277
NEIC	M_L2.7(STR), Single network solution.									
NEIC	Mining induced event in the Gardanne area.									
ISC	**XII**	**10**	**21 36**	**57.0**±.57	**43.77N**±.040	**7.58E**±.045	**13**±3.4		**59**	**0-5**
NEIC	XII	10	21 36	56.7	43.79N	7.59E	10			¶97xii2431
LDG	XII	10	21 36	57.0	43.7N	7.6E		3.2L		
STR	XII	10	21 36	58.1	43.78N	7.5E	9	3.3L		
ROM	XII	10	21 36	58.6	43.9N	7.6E	5	2.8D		
NEIC	$M_{L3.3}$(GEN).									
ISC	**XII**	**26**	**21 19**	**21**±1.2	**43.32N**±.066	**7.34E**±.059	**4**±7.2		**31**	**0-2**
NEIC	XII	26	21 19	21.7	43.31N	7.36E	10			¶97xii5199
LDG	XII	26	21 19	22.5	43.4N	7.3E		2.3L		
NEIC	$M_{L2.5}$(STR)									
ISC	**XII**	**30**	**09 00**	**19.4**±.97	**43.82N**±.057	**7.4E**±.10	**5**		**9**	**0-2**
LDG	XII	30	09 00	18.2	43.8N	7.6E		2.0L		¶97xii5708
NEIC	XII	30	09 00	18.6	43.74N	7.49E	5			
NEIC	Poor solution.									
ISC	**XII**	**30**	**23 48**	**44**±4.5	**43.7N**±.27	**7.8E**±.28	**25**±11		**11**	**0-2**
NEIC	XII	30	23 48	44.7	43.69N	7.80E	20			¶97xii5798
NEIC	M_L2.2(GEN), M_L1.7(STR), Less reliable solution.									

(380) Corsica.

LDG	**VIII**	**16**	**22 03**	**14.6**	**41.9N**	**9.7E**		**2.2L**		¶97viii2424
ISC	**VIII**	**24**	**05 34**	**16**±1.4	**43.2N**±.15	**8.1E**±.15	**10**		**5**	**1-1**
NEIC	VIII	24	05 34	17.0	43.30N	8.15E	10			¶97viii3485
LDG	VIII	24	05 34	17.3	43.3N	8.1E		1.6L		
NEIC	Single network solution.									
ISC	**IX**	**03**	**11 33**	**22**±6.3	**42.3N**±.48	**8.7E**±.31	**0**		**7**	**0-6**
LDG	IX	03	11 33	23.5	42.2N	8.9E		2.0L		¶97ix0421
LDG	**IX**	**12**	**05 29**	**37.2**	**43.7N**	**8.8E**		**2.2L**		¶97ix1775
ISC	**X**	**31**	**06 31**	**18**±1.5	**43.31N**±.061	**8.22E**±.099	**5**±9.3		**27**	**1-3**
NEIC	X	31	06 31	18.9	43.37N	8.21E	10			¶97x5145
LDG	X	31	06 31	20.2	43.3N	8.1E		2.2L		
NEIC	$M_{L2.5}$(GEN)									
NEIC	ML 2.2 (STR).									
ISC	**XI**	**05**	**19 56**	**04**±12	**43.9N**±.13	**8.3E**±.84	**5**		**10**	**1-1**
NEIC	XI	05	19 56	10.3	43.95N	7.82E	5			¶97xi0854
LDG	XI	05	19 56	12.5	44.0N	7.7E		1.9L		
NEIC	Poor solution.									
ISC	**XII**	**07**	**23 20**	**57**±3.9	**43.9N**±.22	**8.3E**±.23	**12**±10		**10**	**0-1**
NEIC	XII	07	23 20	57.2	43.87N	8.27E	10			¶97xii1807
NEIC	M_L2.1(GEN), Single network solution.									
ISC	**XII**	**08**	**05 06**	**35**±4.7	**43.8N**±.26	**8.3E**±.27	**14**±11		**10**	**0-1**
NEIC	XII	08	05 06	35.2	43.85N	8.29E	10			¶97xii1871
NEIC	M_L2.0(GEN), Single network solution.									

(381) Central Italy.

ROM	**VII**	**01**	**03 29**	**59.3**	**43.4N**	**12.5E**	**16**	**2.1D**		¶97vii0023
ISC	**VII**	**02**	**10 19**	**37**±2.0	**42.5N**±.11	**13.4E**±.23	**13**±17		**5**	**0-1**
ROM	VII	02	10 19	36.1	42.6N	13.5E	10	2.3D		¶97vii0224
ISC	Poorly determined									
ROM	**VII**	**02**	**20 19**	**41.0**	**43.4N**	**12.5E**	**5**	**2.3D**		¶97vii0296
ISC	**VII**	**03**	**02 49**	**12**±1.8	**42.62N**±.088	**12.7E**±.22	**5**		**4**	**0-1**
ROM	VII	03	02 49	12.2	42.6N	12.7E	5	2.4D		¶97vii0346
ISC	Poorly determined									
ISC	**VII**	**04**	**01 51**	**56**±1.5	**43.9N**±.25	**11.8E**±.11	**19**±18		**6**	**0-2**
ROM	VII	04	01 51	55.6	43.9N	11.8E	14	2.5D		¶97vii0480
ISC	**VII**	**05**	**04 42**	**19**±2.0	**42.76N**±.074	**12.5E**±.25	**1**±20		**6**	**0-1**
ROM	VII	05	04 42	19.0	42.8N	12.5E	5	2.6D		¶97vii0679
ISC	**VII**	**06**	**16 14**	**59**±1.4	**42.96N**±.069	**13.2E**±.17	**6**±14		**9**	**0-3**
ROM	VII	06	16 14	59.4	43.0N	13.2E	5	2.7D		¶97vii0903
ISC	**VII**	**06**	**16 15**	**48**±1.3	**42.98N**±.068	**13.3E**±.17	**2**		**6**	**0-1**
ROM	VII	06	16 15	47.3	43.0N	13.3E	2	2.8D		¶97vii0904
ISC	**VII**	**06**	**23 59**	**36**±1.6	**42.0N**±.13	**13.0E**±.25	**32**±28		**5**	**0-1**
ROM	VII	06	23 59	36.5	42.0N	13.1E	10	2.4D		¶97vii0954
ISC	Poorly determined									
ISC	**VII**	**07**	**00 04**	**14**±1.2	**43.01N**±.067	**13.7E**±.13	**5**		**6**	**1-3**
ROM	VII	07	00 04	12.1	43.0N	13.9E	5	2.6D		¶97vii0955
ISC	**VII**	**07**	**00 07**	**29**±1.3	**43.01N**±.070	**13.8E**±.15	**5**		**6**	**1-3**
ROM	VII	07	00 07	27.5	43.1N	13.9E	5	2.7D		¶97vii0957
ISC	**VII**	**07**	**00 35**	**13.3**±.99	**42.48N**±.066	**12.8E**±.14	**7**±19		**6**	**0-1**
ROM	VII	07	00 35	13.0	42.5N	12.8E	5	2.2D		¶97vii0959
ISC	**VII**	**07**	**01 22**	**44.9**±.99	**42.96N**±.058	**14.0E**±.12	**5**		**10**	**1-3**
ROM	VII	07	01 22	44.8	43.0N	14.0E	5	2.9D		¶97vii0963
ISC	**VII**	**07**	**15 19**	**45**±1.4	**43.11N**±.088	**13.7E**±.17	**10**		**6**	**1-3**
ROM	VII	07	15 19	37.0	43.3N	14.4E	10	2.6D		¶97vii1060
ISC	**VII**	**07**	**23 37**	**48**±7.9	**42.9N**±.16	**12.1E**±.93	**30**		**4**	**0-2**
ROM	VII	07	23 37	49.6	42.9N	12.3E	30	2.3D		¶97vii1105
ISC	Poorly determined									
ISC	**VII**	**09**	**05 41**	**39**±1.3	**42.4N**±.12	**13.0E**±.13	**9**±19		**5**	**0-1**
ROM	VII	09	05 41	38.0	42.4N	13.0E	10	2.3D		¶97vii1286
ISC	Poorly determined									
ISC	**VII**	**13**	**01 48**	**03**±1.1	**43.36N**±.061	**12.6E**±.13	**12**±12		**10**	**0-3**
ROM	VII	13	01 48	02.7	43.4N	12.6E	8	2.7D		¶97vii1907
ROM	**VII**	**13**	**01 49**	**07.8**	**43.4N**	**12.5E**	**10**	**2.5D**		¶97vii1908
ROM	**VII**	**13**	**02 33**	**40.5**	**43.4N**	**12.6E**	**10**	**2.3D**		¶97vii1912
ISC	**VII**	**14**	**00 25**	**07**±2.1	**42.63N**±.091	**12.7E**±.29	**10**		**4**	**0-1**
ROM	VII	14	00 25	06.2	42.7N	12.6E	10	2.3D		¶97vii2049
ISC	Poorly determined									
ROM	**VII**	**14**	**10 04**	**29.4**	**43.5N**	**12.4E**	**10**	**2.3D**		¶97vii2102
ISC	**VII**	**15**	**08 51**	**11.5**±.95	**43.01N**±.037	**12.93E**±.087	**4**±9.5		**24**	**0-5**
ROM	VII	15	08 51	11.3	43.0N	12.9E	7	3.2D		¶97vii2278
ROM	**VII**	**15**	**21 27**	**40.5**	**42.1N**	**13.5E**	**7**	**2.2D**		¶97vii2355
ISC	**VII**	**16**	**02 22**	**14**±1.2	**42.74N**±.054	**12.7E**±.21	**5**		**6**	**0-1**
ROM	VII	16	02 22	13.1	42.7N	12.5E	5	2.7D		¶97vii2381
ISC	**VII**	**16**	**15 49**	**58**±1.3	**43.06N**±.071	**13.2E**±.16	**5**		**6**	**0-1**
ROM	VII	16	15 49	57.4	43.1N	13.2E	5	2.8D		¶97vii2460
ISC	**VII**	**16**	**21 25**	**19**±1.5	**43.07N**±.083	**13.2E**±.17	**5**		**5**	**0-1**
ROM	VII	16	21 25	18.6	43.1N	13.2E	5	2.6D		¶97vii2497
ISC	**VII**	**16**	**23 49**	**31.0**±.82	**43.12N**±.030	**13.19E**±.046	**29**±8.9		**63**	**0-8**
ROM	VII	16	23 49	30.3	43.1N	13.2E	5	3.5D		¶97vii2519
LDG	VII	16	23 49	30.7	43.2N	13.3E		3.1L		
NEIC	VII	16	23 49	30.9	43.23N	12.99E	10			
NEIC	Less reliable solution.									
ISC	**VII**	**17**	**01 52**	**23**±1.4	**43.03N**±.053	**13.2E**±.12	**10**±13		**11**	**0-3**
ROM	VII	17	01 52	22.1	43.1N	13.2E	5	3.1D		¶97vii2530
ISC	**VII**	**17**	**04 10**	**09**±1.5	**43.04N**±.082	**13.2E**±.17	**5**		**5**	**0-1**
ROM	VII	17	04 10	08.6	43.1N	13.2E	5	2.5D		¶97vii2541
ISC	**VII**	**17**	**12 14**	**33**±1.7	**43.5N**±.13	**12.9E**±.24	**21**		**4**	**0-1**
ROM	VII	17	12 14	32.5	43.5N	12.9E	21	2.4D		¶97vii2592
ISC	Poorly determined									
ISC	**VII**	**19**	**08 29**	**27**±1.5	**42.75N**±.075	**12.5E**±.24	**11**±14		**6**	**0-1**
ROM	VII	19	08 29	26.4	42.8N	12.6E	6	2.7D		¶97vii2849
ISC	**VII**	**19**	**10 29**	**51**±1.0	**42.44N**±.090	**13.1E**±.11	**8**		**5**	**0-1**
ROM	VII	19	10 29	50.9	42.5N	13.1E	8	2.4D		¶97vii2858
ISC	**VII**	**21**	**15 30**	**10**±2.0	**42.84N**±.077	**12.9E**±.34	**5**		**4**	**0-1**
ROM	VII	21	15 30	09.6	42.8N	12.8E	5	2.4D		¶97vii3255
ISC	Poorly determined									
ISC	**VII**	**21**	**17 13**	**34**±1.1	**43.04N**±.069	**12.8E**±.15	**5**		**5**	**0-2**
ROM	VII	21	17 13	33.5	43.1N	12.8E	5	2.6D		¶97vii3265
ISC	**VII**	**21**	**18 50**	**38.6**±.81	**43.02N**±.059	**12.8E**±.14	**5**		**7**	**0-2**
ROM	VII	21	18 50	38.5	43.0N	12.8E	5	2.9D		¶97vii3277
ISC	**VII**	**22**	**19 18**	**04**±2.7	**43.8N**±.18	**10.3E**±.21	**5**		**4**	**0-1**
ROM	VII	22	19 18	04.3	43.8N	10.3E	5	2.2D		¶97vii3418
ISC	Poorly determined									
ISC	**VII**	**23**	**02 51**	**24**±1.0	**43.39N**±.066	**12.6E**±.15	**10**		**5**	**0-1**
ROM	VII	23	02 51	23.2	43.4N	12.6E	10	2.5D		¶97vii3471
ISC	**VII**	**23**	**10 11**	**21**±4.3	**43.40N**±.094	**13.1E**±.49	**5**		**5**	**0-1**
ROM	VII	23	10 11	20.2	43.4N	13.1E	5	2.6D		¶97vii3514
ISC	**VII**	**23**	**12 23**	**12.8**±.94	**42.79N**±.046	**12.5E**±.16	**5**		**9**	**0-3**
ROM	VII	23	12 23	12.5	42.8N	12.5E	5	3.1D		¶97vii3527
ISC	**VII**	**24**	**01 54**	**41**±2.2	**42.72N**±.080	**12.6E**±.37	**10**		**4**	**0-1**
ROM	VII	24	01 54	40.3	42.8N	12.5E	10	2.2D		¶97vii3599
ISC	Poorly determined									
ISC	**VII**	**24**	**06 03**	**43.6**±.90	**42.85N**±.054	**12.7E**±.18	**5**		**6**	**0-1**
ROM	VII	24	06 03	43.1	42.8N	12.6E	5	2.7D		¶97vii3630
ISC	**VII**	**25**	**00 14**	**31**±1.3	**43.41N**±.089	**12.6E**±.16	**10**		**4**	**0-1**
ROM	VII	25	00 14	30.6	43.4N	12.6E	10	2.3D		¶97vii3743
ISC	Poorly determined									
ISC	**VII**	**25**	**07 59**	**10**±1.0	**42.94N**±.065	**12.8E**±.20	**6**±15		**6**	**0-1**
ROM	VII	25	07 59	09.9	42.9N	12.7E	10	2.6D		¶97vii3800
ISC	**VII**	**25**	**11 43**	**42**±1.4	**42.85N**±.073	**12.7E**±.34	**5**		**4**	**0-1**
ROM	VII	25	11 43	41.6	42.8N	12.8E	5	2.4D		¶97vii3822
ISC	Poorly determined									
ISC	**VII**	**25**	**18 52**	**13**±1.7	**42.74N**±.086	**13.3E**±.20	**10**		**4**	**0-1**
ROM	VII	25	18 52	13.3	42.7N	13.2E	10	2.1D		¶97vii3862
ISC	Poorly determined									
ISC	**VII**	**26**	**04 27**	**56.6**±.35	**42.73N**±.030	**12.47E**±.038	**10**	3.3b	**88**	**0-22**
LDG	VII	26	04 27	54.1	42.6N	13.0E		3.5L		¶97vii3915
NEIC	VII	26	04 27	56.6	42.72N	12.39E	10			
ROM	VII	26	04 27	56.7	42.7N	12.6E	5	3.7D		
STR	VII	26	04 28	04.9	43.23N	12.23E	10	4.0L		
EIDC	VII	26	04 28	05.2	43.3N	12.5E	0	3.8L,3.2b		
NEIC	$M_{L3.7}$(VIE)).									
ISC	**VII**	**26**	**05 26**	**38**±1.1	**43.38N**±.067	**12.5E**±.14	**5**		**5**	**0-1**
ROM	VII	26	05 26	37.2	43.4N	12.5E	5	2.6D		¶97vii3921
ISC	**VII**	**26**	**05 48**	**25.1**±.48	**42.73N**±.043	**12.44E**±.058	**5**		**25**	**0-7**
LDG	VII	26	05 48	24.9	42.7N	12.7E		3.0L		¶97vii3924
ROM	VII	26	05 48	26.5	42.8N	12.6E	5	3.4D		
ISC	**VII**	**26**	**11 44**	**04.3**±.43	**42.73N**±.039	**12.45E**±.055	**10**		**29**	**0-7**
ROM	VII	26	11 44	04.6	42.7N	12.7E	5	3.3D		¶97vii3960
NEIC	VII	26	11 44	04.6	42.81N	12.44E	10			
LDG	VII	26	11 44	05.7	42.7N	12.5E		3.1L		
NEIC	Poor solution.									
ISC	**VII**	**27**	**05 13**	**37**±1.5	**43.6N**±.10	**11.2E**±.13	**23**±12		**16**	**1-6**
NEIC	VII	27	05 13	34.3	43.55N	11.33E	10			¶97vii4063
ROM	VII	27	05 13	37.1	43.6N	11.2E	5	2.5D		

LDG VII 27 05 13 40.7 43.6N 10.9E 2.6L
NEIC Single network solution.
ISC VII 27 10 23 42±1.4 **42.76N**±.069 **12.5E**±.21 **5** **6 0-1**
ROM VII 27 10 23 42.6 42.8N 12.5E 5 2.9D **¶97vii4094**
ISC VII 27 12 01 21.5±.82 **42.97N**±.028 **12.56E**±.042 **7**±6.9 **3.9b** **81 0-41**
ROM VII 27 12 01 22.0 42.9N 12.7E 5 3.7D **¶97vii4104**
NEIC VII 27 12 01 22.0 42.99N 12.52E 10
EIDC VII 27 12 01 22.2 43.1N 12.9E 0 3.8b,3.8L
LDG VII 27 12 01 23.3 43.0N 12.7E 3.4L
STR VII 27 12 01 30.4 43.33N 12.00E 10 4.1L
NEIC ML3.7(VIE)
ISC VII 28 11 04 40.6±.87 **42.74N**±.060 **12.9E**±.15 **5** **7 0-3**
ROM VII 28 11 04 40.2 42.7N 12.9E 5 2.7D **¶97vii4258**
ISC VII 29 00 06 15.9±.82 **43.38N**±.028 **12.42E**±.036 **6**±7.1 **99 0-8**
NEIC VII 29 00 06 15.1 43.30N 12.48E 10 **¶97vii4349**
LDG VII 29 00 06 15.5 43.3N 12.7E 3.3L
ROM VII 29 00 06 16.5 43.4N 12.5E 5 3.8D
STR VII 29 00 06 22.8 43.65N 12.08E 10 3.7L
NEIC ML3.6(GRF).
NEIC ML 3.5 (VIE).
ISC VII 29 03 24 13±1.3 **43.42N**±.090 **12.6E**±.16 **10** **4 0-1**
ROM VII 29 03 24 12.7 43.4N 12.5E 10 2.3D **¶97vii4374**
ISC Poorly determined
ISC VII 31 05 06 52±1.1 **42.77N**±.061 **12.7E**±.19 **5** **6 0-1**
ROM VII 31 05 06 51.8 42.8N 12.6E 5 2.7D **¶97vii4678**
ISC VII 31 22 03 11±1.2 **43.39N**±.067 **12.6E**±.18 **12**±16 **6 0-1**
ROM VII 31 22 03 10.1 43.4N 12.6E 12 2.7D **¶97vii4792**
ISC VII 31 23 01 43±1.6 **43.8N**±.25 **12.0E**±.13 **7**±29 **6 0-1**
ROM VII 31 23 01 42.8 43.8N 12.0E 13 2.5D **¶97vii4798**
ROM VIII 01 04 18 09.1 **43.6N** **11.2E** **10** **2.4D** **¶97viii0024**
ISC VIII 01 20 43 53±1.5 **43.04N**±.099 **12.7E**±.38 **29** **4 0-1**
ROM VIII 01 20 43 52.0 43.1N 12.5E 29 2.3D **¶97viii0110**
ISC Poorly determined
ISC VIII 02 07 14 03±2.4 **43.7N**±.25 **11.2E**±.10 **10** **5 0-1**
ROM VIII 02 07 14 02.4 43.6N 11.2E 10 2.4D **¶97viii0185**
ISC VIII 03 02 45 26±1.4 **43.47N**±.097 **12.4E**±.17 **10** **4 0-1**
ROM VIII 03 02 45 25.9 43.5N 12.5E 10 2.3D **¶97viii0288**
ISC Poorly determined
ROM VIII 03 03 59 29.2 **43.5N** **12.5E** **10** **2.2D** **¶97viii0294**
ISC VIII 03 17 42 45±1.4 **42.78N**±.083 **13.1E**±.19 **10** **4 0-1**
ROM VIII 03 17 42 45.4 42.8N 13.1E 10 2.5D **¶97viii0388**
ISC Poorly determined
ISC VIII 04 01 38 52±2.7 **43.2N**±.18 **10.61E**±.097 **23**±26 **12 1-3**
ROM VIII 04 01 38 53.0 43.4N 10.9E 5 2.9D **¶97viii0440**
ISC VIII 04 11 04 56±1.2 **43.40N**±.082 **12.4E**±.16 **3**±21 **6 0-1**
ROM VIII 04 11 04 55.9 43.4N 12.5E 7 2.5D **¶97viii0498**
ISC VIII 05 05 51 34±2.3 **43.7N**±.12 **10.32E**±.098 **4**±20 **11 0-3**
ROM VIII 05 05 51 35.8 43.9N 10.4E 13 2.5D **¶97viii0621**
ISC VIII 05 19 40 23±1.4 **43.40N**±.084 **12.5E**±.25 **10**±25 **5 0-1**
ROM VIII 05 19 40 23.6 43.4N 12.5E 10 2.5D **¶97viii0701**
ISC Poorly determined
ISC VIII 05 22 46 22±1.3 **43.35N**±.088 **12.6E**±.16 **10** **4 0-1**
ROM VIII 05 22 46 21.7 43.4N 12.6E 10 2.5D **¶97viii0730**
ISC Poorly determined
ISC VIII 07 23 14 41±1.0 **42.79N**±.050 **12.5E**±.17 **5** **8 0-1**
ROM VIII 07 23 14 40.5 42.8N 12.5E 5 2.8D **¶97viii1012**
ISC VIII 08 16 14 15±1.3 **43.37N**±.089 **12.5E**±.16 **2**±34 **5 0-1**
ROM VIII 08 16 14 14.2 43.4N 12.5E 10 2.3D **¶97viii1131**
ISC Poorly determined
ROM VIII 08 20 52 54.0 **43.5N** **12.6E** **10** **2.2D** **¶97viii1164**
ISC VIII 09 06 10 05±1.3 **42.75N**±.071 **12.7E**±.21 **8**±13 **6 0-1**
ROM VIII 09 06 10 05.0 42.8N 12.6E 5 2.8D **¶97viii1210**
ISC VIII 09 08 21 28±4.0 **43.3N**±.14 **13.5E**±.38 **11**±26 **5 0-1**
ROM VIII 09 08 21 27.4 43.3N 13.5E 10 2.5D **¶97viii1222**
ISC Poorly determined
ISC VIII 09 08 56 35.5±.94 **43.69N**±.076 **11.99E**±.098 **5** **6 0-1**
ROM VIII 09 08 56 35.5 43.7N 12.0E 5 2.7D **¶97viii1228**
ISC VIII 09 23 16 17±1.3 **43.39N**±.090 **12.5E**±.16 **2**±34 **5 0-1**
ROM VIII 09 23 16 17.1 43.4N 12.6E 10 2.4D **¶97viii1317**
ISC Poorly determined
ISC VIII 11 01 46 31±1.3 **43.39N**±.086 **12.6E**±.16 **10** **4 0-1**
ROM VIII 11 01 46 29.9 43.4N 12.5E 10 2.2D **¶97viii1489**
ISC Poorly determined
ISC VIII 12 13 14 46±1.0 **42.03N**±.066 **13.5E**±.10 **12**±12 **9 0-2**
ROM VIII 12 13 14 45.2 42.1N 13.6E 3 3.2D **¶97viii1757**
ISC VIII 13 19 59 24±1.5 **43.35N**±.095 **12.4E**±.27 **5** **4 1-2**
ROM VIII 13 19 59 23.3 43.3N 12.5E 5 2.4D **¶97viii1951**
ISC Poorly determined
ISC VIII 13 22 21 58±1.0 **43.42N**±.068 **12.5E**±.14 **10** **5 0-1**
ROM VIII 13 22 21 57.4 43.4N 12.5E 10 2.5D **¶97viii1968**
ROM VIII 14 23 53 48.1 **43.8N** **12.0E** **17** **2.2D** **¶97viii2133**
ISC VIII 15 13 12 36±3.0 **42.7N**±.16 **12.5E**±.31 **10** **4 0-1**
ROM VIII 15 13 12 36.1 42.7N 12.5E 10 2.5D **¶97viii2224**
ISC Poorly determined
ROM VIII 15 14 32 57.6 **42.2N** **13.4E** **8** **2.2D** **¶97viii2230**
ISC VIII 16 07 56 47±1.3 **43.42N**±.088 **12.6E**±.15 **5** **4 0-1**
ROM VIII 16 07 56 46.6 43.4N 12.6E 5 2.3D **¶97viii2333**
ISC Poorly determined
ISC VIII 16 21 53 04±1.3 **43.40N**±.089 **12.5E**±.16 **10** **4 0-1**
ROM VIII 16 21 53 03.3 43.4N 12.6E 10 2.5D **¶97viii2423**
ISC Poorly determined
ISC VIII 17 02 45 10.7±.82 **43.09N**±.051 **12.9E**±.12 **5** **8 0-2**
ROM VIII 17 02 45 10.6 43.1N 12.9E 5 2.9D **¶97viii2462**
ISC VIII 17 03 10 31±1.1 **43.38N**±.080 **12.5E**±.16 **4**±21 **6 0-1**
ROM VIII 17 03 10 30.4 43.4N 12.5E 5 2.5D **¶97viii2470**
ISC VIII 17 03 11 12.4±.86 **43.09N**±.055 **12.9E**±.13 **5** **7 0-2**
ROM VIII 17 03 11 11.8 43.1N 12.9E 5 2.9D **¶97viii2471**
ISC VIII 17 03 12 57.7±.86 **43.09N**±.056 **12.9E**±.13 **5** **7 0-2**
ROM VIII 17 03 12 56.9 43.1N 12.9E 5 2.7D **¶97viii2473**
ISC VIII 17 04 37 08±1.3 **43.38N**±.085 **12.6E**±.16 **10** **4 0-1**
ROM VIII 17 04 37 07.9 43.4N 12.6E 10 2.4D **¶97viii2484**
ISC Poorly determined
ISC VIII 18 04 15 25±1.3 **43.41N**±.089 **12.6E**±.16 **10** **4 0-1**
ROM VIII 18 04 15 24.8 43.4N 12.6E 10 2.3D **¶97viii2618**
ISC Poorly determined
ISC VIII 19 07 32 31±1.3 **43.42N**±.091 **12.6E**±.16 **10** **4 0-1**
ROM VIII 19 07 32 31.2 43.4N 12.6E 10 2.5D **¶97viii2775**
ISC Poorly determined
ISC VIII 21 14 55 29±1.2 **43.36N**±.075 **12.6E**±.22 **9**±23 **5 0-1**
ROM VIII 21 14 55 28.8 43.4N 12.6E 10 2.6D **¶97viii3108**
ISC Poorly determined
ISC VIII 23 10 35 35.9±.96 **43.09N**±.045 **12.9E**±.11 **5**±10 **15 0-7**
ROM VIII 23 10 35 35.2 43.1N 12.9E 3 3.2D **¶97viii3389**
ISC VIII 23 19 53 12±1.3 **43.39N**±.086 **12.6E**±.16 **10** **4 0-1**
ROM VIII 23 19 53 11.6 43.4N 12.6E 10 2.5D **¶97viii3449**
ISC Poorly determined
ROM VIII 24 09 13 09.3 **43.3N** **12.6E** **10** **2.6D** **¶97viii3508**
ISC VIII 24 12 53 01±1.2 **43.4N**±.10 **12.4E**±.32 **10** **4 0-1**
ROM VIII 24 12 53 00.7 43.3N 12.5E 10 2.6D **¶97viii3536**
ISC Poorly determined
ISC VIII 25 06 46 07±1.0 **43.08N**±.059 **12.9E**±.14 **5** **6 0-1**
ROM VIII 25 06 46 06.0 43.1N 12.9E 5 2.9D **¶97viii3661**
ISC VIII 28 01 13 14±1.4 **43.5N**±.10 **12.4E**±.18 **3**±36 **5 0-1**
ROM VIII 28 01 13 13.7 43.5N 12.4E 10 2.5D **¶97viii4066**
ISC Poorly determined
ISC VIII 28 01 48 02±3.8 **42.5N**±.30 **13.1E**±.13 **10** **4 0-1**
ROM VIII 28 01 48 01.5 42.5N 13.1E 10 2.6D **¶97viii4074**
ISC Poorly determined
ISC VIII 29 04 34 39±2.1 **43.47N**±.081 **12.3E**±.26 **9** **4 0-1**
ROM VIII 29 04 34 38.3 43.5N 12.3E 9 2.6D **¶97viii4234**
ISC Poorly determined
ISC VIII 31 13 43 03±1.4 **42.82N**±.074 **12.6E**±.32 **5** **4 0-1**
ROM VIII 31 13 43 02.3 42.8N 12.7E 5 2.2D **¶97viii4662**
ISC Poorly determined
ISC IX 02 21 45 43.0±.88 **44.0N**±.12 **11.02E**±.079 **5** **7 0-1**
ROM IX 02 21 45 42.1 44.0N 11.0E 5 2.5D **¶97ix0335**
ISC IX 03 01 22 04±1.4 **43.09N**±.095 **12.8E**±.16 **5** **4 0-2**
ROM IX 03 01 22 04.5 43.1N 12.8E 5 2.7D **¶97ix0361**
ISC Poorly determined
ISC IX 03 01 46 27±1.7 **42.4N**±.19 **13.2E**±.37 **5** **4 0-1**
ROM IX 03 01 46 26.1 42.4N 13.1E 5 2.3D **¶97ix0366**
ISC Poorly determined
ISC IX 03 22 07 28.1±.76 **43.05N**±.018 **12.87E**±.018 **3**±5.8 **4.6b,3.9s** **261 0-128**
NEIC IX 03 22 07 29.1 43.04N 12.83E 10 4.7b **¶97ix0498**
BJI IX 03 22 07 29.5 42.86N 12.22E 37 4.8b
EIDC IX 03 22 07 29.7 43.0N 13.0E 0 4.3b,3.9s
LDG IX 03 22 07 30.1 43.0N 13.0E 4.2L
ROM IX 03 22 07 30.3 43.1N 12.8E 5 4.4D
PDG IX 03 22 07 30.7 42.8N 12.9E 10 4.5L
STR IX 03 22 07 32.6 43.10N 12.96E 10 4.6L
NEIC ML4.6(VIE).
ROM IX 04 00 05 52.1 **42.3N** **12.9E** **5** **2.4D** **¶97ix0515**
ISC IX 04 10 14 53.0±.89 **42.84N**±.077 **12.8E**±.21 **9** **6 0-1**
ROM IX 04 10 14 53.0 42.9N 12.8E 9 2.8D **¶97ix0576**
ISC IX 05 04 40 09±1.4 **43.09N**±.096 **12.9E**±.16 **5** **4 0-2**
ROM IX 05 04 40 09.0 43.1N 12.8E 5 2.5D **¶97ix0695**
ISC Poorly determined
ISC IX 05 09 00 49.0±.69 **42.96N**±.048 **12.9E**±.12 **5** **9 0-3**
ROM IX 05 09 00 48.0 43.0N 12.9E 5 2.9D **¶97ix0720**
ISC IX 05 09 36 35±4.9 **43.2N**±.16 **12.3E**±.46 **9** **4 0-2**
ROM IX 05 09 36 35.9 43.2N 12.5E 9 2.7D **¶97ix0727**
ISC Poorly determined
ISC IX 05 20 28 46±1.1 **43.01N**±.050 **13.0E**±.13 **3**±13 **9 0-3**
ROM IX 05 20 28 45.7 43.0N 12.9E 5 2.8D **¶97ix0796**
ISC IX 05 22 23 06.8±.85 **43.00N**±.059 **12.9E**±.14 **5** **7 0-1**
ROM IX 05 22 23 06.3 43.0N 12.9E 5 2.8D **¶97ix0805**
ISC IX 05 23 52 15.0±.85 **43.00N**±.058 **12.9E**±.14 **5** **7 0-1**
ROM IX 05 23 52 14.4 43.0N 12.9E 5 2.7D **¶97ix0818**
ISC IX 06 02 15 16±1.3 **43.07N**±.081 **12.9E**±.17 **5** **4 0-2**
ROM IX 06 02 15 15.1 43.1N 12.9E 5 2.5D **¶97ix0842**
ISC Poorly determined
ISC IX 06 02 28 14.6±.83 **42.98N**±.058 **12.9E**±.14 **5** **8 0-3**
ROM IX 06 02 28 14.1 43.0N 12.9E 5 2.9D **¶97ix0843**
ISC IX 06 02 49 36±1.1 **43.00N**±.066 **12.9E**±.17 **5** **5 0-1**
ROM IX 06 02 49 35.9 43.0N 12.9E 5 2.5D **¶97ix0850**
ISC IX 07 04 01 02.4±.81 **42.96N**±.053 **12.7E**±.18 **7** **7 0-1**
ROM IX 07 04 01 01.9 43.0N 12.7E 7 2.8D **¶97ix1007**
ISC IX 07 15 10 54±1.1 **42.97N**±.067 **12.7E**±.20 **4**±15 **6 0-2**
ROM IX 07 15 10 54.0 43.0N 12.7E 8 2.7D **¶97ix1090**
ISC IX 07 23 28 05.9±.52 **43.02N**±.021 **12.83E**±.021 **17**±5.9 **4.0b** **183 0-75**
LDG IX 07 23 28 00.3 42.9N 13.6E 3.9L **¶97ix1140**
EIDC IX 07 23 28 04.1 42.9N 12.9E 0 3.9b,4.0L
NEIC IX 07 23 28 05.0 43.01N 12.84E 10 4.0b
ROM IX 07 23 28 06.4 43.0N 12.8E 5 3.7D
SZGRF IX 07 23 28 09.9 43.3N 13.3E 10 4.3L
PDG IX 07 23 28 11.3 42.5N 13.3E 10 3.8L
STR IX 07 23 28 21.6 43.56N 11.60E 10 4.0L
NEIC ML4.2(VIE)
ISC IX 08 01 56 22.1±.50 **42.96N**±.037 **12.79E**±.095 **5** **19 0-6**
ROM IX 08 01 56 20.9 43.0N 12.9E 5 3.0D **¶97ix1154**
ISC IX 08 03 17 00±1.3 **43.43N**±.094 **12.5E**±.16 **10** **4 0-1**
ROM IX 08 03 16 59.3 43.4N 12.5E 10 2.6D **¶97ix1161**
ISC Poorly determined
ROM IX 08 03 22 30.8 **43.4N** **12.5E** **5** **2.3D** **¶97ix1163**
ISC IX 08 05 06 03±1.3 **43.41N**±.089 **12.5E**±.15 **5** **4 0-1**
ROM IX 08 05 06 02.2 43.4N 12.5E 5 2.3D **¶97ix1177**
ISC Poorly determined
ISC IX 09 03 52 26±1.3 **43.05N**±.080 **12.9E**±.17 **5** **4 0-2**
ROM IX 09 03 52 25.3 43.1N 12.9E 5 2.7D **¶97ix1319**
ISC Poorly determined
ISC IX 09 16 54 47.7±.75 **43.02N**±.030 **12.69E**±.046 **8**±6.2 **52 0-7**
ROM IX 09 16 54 47.4 43.0N 12.8E 5 3.6D **¶97ix1411**
NEIC IX 09 16 54 47.6 42.99N 12.66E 5
NEIC ML3.5(VIE), ML3.2(LDG).
ISC IX 09 17 01 07.9±.86 **42.99N**±.058 **13.0E**±.14 **5** **8 0-3**
ROM IX 09 17 01 07.4 43.0N 12.9E 5 2.8D **¶97ix1412**
ISC IX 09 19 05 56±1.5 **43.09N**±.084 **12.9E**±.15 **1**±20 **5 0-2**
ROM IX 09 19 05 56.2 43.1N 12.8E 10 2.6D **¶97ix1431**
ISC Poorly determined
ISC IX 09 20 22 05.4±.81 **42.96N**±.060 **12.8E**±.15 **5** **7 0-1**
ROM IX 09 20 22 04.8 43.0N 12.8E 5 2.8D **¶97ix1436**
ISC IX 09 21 27 28.8±.96 **43.01N**±.065 **12.9E**±.14 **5** **6 0-1**
ROM IX 09 21 27 28.1 43.0N 12.9E 5 2.6D **¶97ix1441**
ISC IX 10 06 46 50.4±.85 **43.05N**±.027 **12.87E**±.035 **2**±7.1 3.4b **78 0-71**
NEIC IX 10 06 46 51.2 43.02N 12.84E 10 **¶97ix1484**
STR IX 10 06 46 51.3 42.80N 13.00E 10 3.9L
LDG IX 10 06 46 51.3 42.8N 13.0E 3.5L
EIDC IX 10 06 46 51.3 43.0N 13.4E 0 4.1L,3.3b
ROM IX 10 06 46 51.5 43.0N 12.9E 5 3.4D
NEIC ML3.8(VIE)

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
ISC	**IX**	**10 06 58 02.7**±.61		**42.99N**±.038	**12.78E**±.066	**17**±7.8		**27**	**0-7**
LDG	IX	10 06 58 01.1		42.9N	13.1E		3.3L		¶97ix1485
ROM	IX	10 06 58 01.2		43.0N	12.9E	5	2.8D		
NEIC	IX	10 06 58 05.2		43.27N	12.51E	10			
ISC	**IX**	**10 06 59 40.2**±.50		**42.99N**±.039	**12.85E**±.073	**10**		**22**	**0-7**
NEIC	IX	10 06 59 30.4		42.65N	13.72E	10			¶97ix1486
ROM	IX	10 06 59 39.8		43.0N	12.9E	6	2.6D		
LDG	IX	10 06 59 46.3		43.0N	12.4E		3.3L		
NEIC	ML3.3(VIE), Poor solution.								
ISC	**IX**	**10 08 17 05**±1.0		**43.01N**±.049	**12.8E**±.12	**6**±11		**10**	**0-3**
ROM	IX	10 08 17 03.9		43.0N	12.9E	7	2.8D		¶97ix1495
ISC	**IX**	**10 09 17 21**±1.1		**43.00N**±.067	**12.6E**±.15	**10**±9.6		**9**	**0-3**
ROM	IX	10 09 17 21.0		43.1N	12.8E	10	2.9D		¶97ix1504
ISC	**IX**	**10 15 31 26**±1.3		**43.03N**±.084	**12.9E**±.19	**10**		**4**	**0-1**
ROM	IX	10 15 31 25.8		43.0N	12.9E	10	2.6D		¶97ix1543
ISC	Poorly determined								
ISC	**IX**	**10 15 38 32.5**±.93		**43.01N**±.064	**12.9E**±.14	**8**		**7**	**0-3**
ROM	IX	10 15 38 32.4		43.0N	12.9E	8	2.7D		¶97ix1544
ISC	**IX**	**10 23 31 57**±4.9		**42.5N**±.15	**12.4E**±.50	**5**		**4**	**0-1**
ROM	IX	10 23 31 58.3		42.6N	12.5E	5	2.3D		¶97ix1597
ISC	Poorly determined								
ISC	**IX**	**11 03 51 50.7**±.47		**42.90N**±.036	**12.68E**±.071	**6**		**30**	**0-7**
LDG	IX	11 03 50 17.3		39.0N	20.6E		3.7L		¶97ix1629
ROM	IX	11 03 51 49.5		43.0N	12.9E	6	3.1D		
NEIC	IX	11 03 51 51.1		42.91N	12.69E	10			
ISC	**IX**	**11 05 01 43.5**±.92		**43.05N**±.046	**13.0E**±.11	**1**±12		**10**	**0-4**
ROM	IX	11 05 01 44.7		43.0N	12.8E	8	2.9D		¶97ix1634
ISC	**IX**	**11 16 34 00**±2.1		**43.00N**±.082	**12.9E**±.25	**5**		**4**	**0-1**
ROM	IX	11 16 33 59.4		43.0N	12.9E	5	2.6D		¶97ix1700
ISC	Poorly determined								
ROM	**IX**	**11 20 04 17.8**		**43.0N**	**12.9E**	**15**	**2.4D**		¶97ix1728
ISC	**IX**	**12 13 17 21.9**±.80		**43.00N**±.048	**12.9E**±.13	**5**		**10**	**0-4**
ROM	IX	12 13 17 21.5		43.0N	12.9E	5	3.0D		¶97ix1817
ISC	**IX**	**13 00 49 37**±1.1		**42.80N**±.069	**13.0E**±.16	**5**		**5**	**0-1**
ROM	IX	13 00 49 36.9		42.8N	13.0E	5	2.7D		¶97ix1889
ISC	**IX**	**13 03 46 27**±1.0		**43.03N**±.075	**12.9E**±.16	**10**		**5**	**0-2**
ROM	IX	13 03 46 26.7		43.0N	12.8E	10	2.5D		¶97ix1911
ISC	**IX**	**13 17 00 35**±2.2		**42.88N**±.099	**13.3E**±.26	**10**		**4**	**1-1**
ROM	IX	13 17 00 35.5		42.9N	13.3E	10	2.6D		¶97ix1997
ISC	Poorly determined								
ISC	**IX**	**13 17 25 59.4**±.78		**42.93N**±.039	**13.26E**±.072	**26**±8.8		**33**	**0-7**
NEIC	IX	13 17 25 57.7		42.96N	13.24E	10			¶97ix2001
ROM	IX	13 17 25 59.2		42.9N	13.2E	5	3.2D		
LDG	IX	13 17 25 59.2		42.9N	13.4E		3.5L		
NEIC	Less reliable solution.								
ISC	**IX**	**13 19 32 34**±1.0		**43.04N**±.075	**12.8E**±.16	**10**		**5**	**0-2**
ROM	IX	13 19 32 34.3		43.0N	12.8E	10	2.4D		¶97ix2025
ISC	**IX**	**13 19 38 19**±1.3		**43.00N**±.070	**13.0E**±.15	**2**±18		**6**	**0-1**
ROM	IX	13 19 38 18.3		43.0N	12.9E	5	2.8D		¶97ix2027
ISC	**IX**	**14 02 35 44**±1.6		**42.87N**±.057	**13.3E**±.17	**3**±14		**9**	**1-2**
ROM	IX	14 02 35 44.5		42.9N	13.2E	5	3.0D		¶97ix2062
ISC	**IX**	**14 04 31 46**±1.3		**43.01N**±.056	**12.9E**±.16	**7**±14		**8**	**0-1**
ROM	IX	14 04 31 46.3		43.0N	12.9E	8	2.8D		¶97ix2069
ISC	**IX**	**14 15 39 57**±4.8		**43.2N**±.14	**12.5E**±.60	**15**±24		**5**	**0-2**
ROM	IX	14 15 39 58.6		43.1N	12.8E	10	2.5D		¶97ix2142
ISC	Poorly determined								
ISC	**IX**	**14 15 59 54**±1.3		**43.01N**±.081	**13.0E**±.18	**4**±24		**5**	**0-1**
ROM	IX	14 15 59 54.1		43.0N	12.9E	5	2.6D		¶97ix2144
ISC	Poorly determined								
ISC	**IX**	**14 22 34 59**±1.0		**44.0N**±.10	**11.00E**±.091	**9**±8.5		**11**	**0-3**
ROM	IX	14 22 34 57.7		44.2N	11.0E	10	2.4D		¶97ix2173
LDG	IX	14 22 34 59.1		43.8N	11.2E		2.3L		
ROM	**IX**	**16 01 26 07.9**		**43.7N**	**10.4E**	**10**	**2.3D**		¶97ix2305
ISC	**IX**	**17 09 21 40.1**±.91		**42.98N**±.037	**12.80E**±.074	**6**±7.8		**28**	**0-7**
LDG	IX	17 09 21 34.3		42.5N	13.5E		2.9L		¶97ix2492
ROM	IX	17 09 21 38.8		43.0N	12.9E	5	3.1D		
NEIC	IX	17 09 21 38.8		42.85N	12.87E	10			
NEIC	Less reliable solution.								
ISC	**IX**	**17 11 15 02.1**±.89		**43.00N**±.035	**12.79E**±.069	**6**±7.6		**32**	**0-7**
LDG	IX	17 11 14 54.1		42.8N	13.8E		2.9L		¶97ix2504
ROM	IX	17 11 15 01.1		43.0N	12.9E	5	3.2D		
NEIC	IX	17 11 15 01.8		42.86N	12.76E	10			
NEIC	Poor solution.								
ISC	**IX**	**17 11 20 06.5**±.94		**43.04N**±.064	**12.9E**±.13	**5**		**6**	**0-1**
ROM	IX	17 11 20 05.9		43.1N	12.9E	5	2.8D		¶97ix2505
ISC	**IX**	**17 16 00 11.7**±.87		**43.00N**±.052	**12.9E**±.13	**5**		**10**	**0-3**
ROM	IX	17 16 00 10.4		43.0N	13.0E	5	2.9D		¶97ix2529
ROM	**IX**	**17 21 02 01.2**		**43.4N**	**12.5E**	**5**	**2.2D**		¶97ix2556
ISC	**IX**	**18 22 50 33**±1.8		**42.91N**±.084	**13.2E**±.21	**5**		**4**	**0-1**
ROM	IX	18 22 50 31.5		42.9N	13.3E	5	2.3D		¶97ix2722
ISC	Poorly determined								
ISC	**IX**	**19 01 32 52.6**±.96		**43.09N**±.052	**12.9E**±.13	**5**		**8**	**0-1**
ROM	IX	19 01 32 52.1		43.1N	12.9E	5	2.8D		¶97ix2732
ISC	**IX**	**19 01 58 57.6**±.96		**43.30N**±.057	**12.8E**±.13	**12**±10		**8**	**0-2**
ROM	IX	19 01 58 56.9		43.3N	12.7E	5	2.6D		¶97ix2737
ISC	**IX**	**19 10 35 04**±2.5		**42.88N**±.083	**13.0E**±.31	**5**		**4**	**0-1**
ROM	IX	19 10 35 03.8		42.9N	12.9E	5	2.3D		¶97ix2779
ISC	Poorly determined								
ISC	**IX**	**19 20 15 30**±1.3		**42.74N**±.076	**13.1E**±.18	**5**		**4**	**0-1**
ROM	IX	19 20 15 29.0		42.7N	13.0E	5	2.5D		¶97ix2839
ISC	Poorly determined								
ISC	**IX**	**20 23 51 54**±1.7		**42.73N**±.067	**12.6E**±.65	**8**±22		**5**	**0-1**
ROM	IX	20 23 51 53.3		42.7N	12.6E	5	2.4D		¶97ix3018
ISC	Poorly determined								
ISC	**IX**	**21 01 04 56**±1.0		**43.03N**±.072	**12.7E**±.17	**5**±14		**6**	**0-2**
ROM	IX	21 01 04 55.8		43.0N	12.7E	5	2.5D		¶97ix3023
ISC	**IX**	**21 17 19 57**±1.8		**43.1N**±.12	**12.8E**±.23	**6**±36		**5**	**0-2**
ROM	IX	21 17 19 56.7		43.1N	12.8E	5	2.6D		¶97ix3134
ISC	Poorly determined								
ROM	**IX**	**21 19 32 58.1**		**42.0N**	**14.0E**	**5**	**3.0D**		¶97ix3148
ROM	**IX**	**21 23 23 52.9**		**42.4N**	**13.2E**	**5**	**2.4D**		¶97ix3183
ISC	**IX**	**22 05 53 15**±1.9		**42.99N**±.082	**12.9E**±.23	**5**		**4**	**0-1**
ROM	IX	22 05 53 14.3		43.0N	12.9E	5	2.3D		¶97ix3227
ISC	Poorly determined								
ISC	**IX**	**22 16 43 01**±1.3		**43.04N**±.070	**12.9E**±.16	**6**±16		**6**	**0-1**
ROM	IX	22 16 43 00.4		43.0N	12.9E	5	2.7D		¶97ix3306
ISC	**IX**	**23 08 35 50**±2.0		**42.81N**±.074	**12.6E**±.34	**4**±43		**5**	**0-1**
ROM	IX	23 08 35 49.9		42.8N	12.6E	10	2.4D		¶97ix3403
ISC	Poorly determined								
ISC	**IX**	**23 13 01 10**±3.9		**43.3N**±.10	**13.1E**±.42	**7**		**4**	**0-1**
ROM	IX	23 13 01 08.6		43.3N	13.2E	7	2.3D		¶97ix3423
ISC	Poorly determined								
ISC	**IX**	**23 19 26 52**±1.2		**43.01N**±.071	**12.9E**±.16	**8**		**5**	**0-1**
ROM	IX	23 19 26 51.5		43.0N	12.9E	8	2.8D		¶97ix3464
ROM	**IX**	**25 19 29 08.2**		**43.0N**	**12.9E**	**10**	**2.4D**		¶97ix3782
ISC	**IX**	**26 00 33 12.7**±.10		**43.06N**±.014	**12.89E**±.014	**10**	**5.5b,5.6s**	**571**	**0-150**
PDG	IX	26 00 32 14.9		42.9N	12.9E	10	5.5D		¶97ix3814
BJI	IX	26 00 33 09.5		42.82N	12.72E	3	5.6b,6.0s		
LEDBW	IX	26 00 33 09.6		42.35N	13.59E	10	5.4L		
CSEM	IX	26 00 33 10.1		42.70N	12.75E	10			
ROM	IX	26 00 33 11.8		43.0N	12.9E	8	5.6D		
MOS	IX	26 00 33 12.0		43.0N	12.9E	10	5.8b,5.7s		
NEIC	IX	26 00 33 12.2		43.05N	12.88E	10	5.5b,5.6s		
EIDC	IX	26 00 33 12.4		43.0N	12.8E	0	5.2b,4.8L		
LDG	IX	26 00 33 12.6		42.9N	13.0E		5.2L		
THE	IX	26 00 33 17.7		42.9N	12.8E		5.5L		
STR	IX	26 00 33 18.9		43.26N	12.53E	10	5.7L		
HRVD	IX	26 00 33 18.9±.2		43.01N±.02	12.86E±.03	15			
PIST	Felt I=I MSK in the Western Pyrenees								
LEDBW	Felt I=VIII MSK								
CSEM	Mw5.9. M_o=7.3×10^{17}Nm. Fault plane solution NP1:ϕ_S166°,δ36°,λ−47°. NP2:ϕ_S297°,δ65°, λ−116°. Principal Axes: T Plg16°,Azm46°; N Plg24°,Azm309°; P Plg61°,Azm166°.								
NEIC	ML5.9(VIE), Mw5.7(HRV). Casualties I=VIII MM.								
NEIC	Radiated energy from the P−wave first−motion solution: 7.6±2.3×10^{12}Nm/11								
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S195°,δ55°,λ−25°. NP2:ϕ_S300°,δ70°, λ−142°. Principal axes: T Plg9°,Azm65°; P Plg41°,Azm163°. Depth from synthetics of broadband displacement seismograms.								
NEIC	Mw 5.6 (GS). Me 5.7 (GS). ML 5.6 (FUR). Casualties and damage in the Marche and Umbria regions are included in the comment for the event at 09:40:26 UTC on September 26. Maximum intensity I=VIII MM in the epicentral area. Damage to the Basilica of St. Francis at Assisi.								
NEIC	Moment tensor solution: s5, scale 10^{17}Nm; M_{rr}−3.13; $M_{\theta\theta}$0.29; $M_{\phi\phi}$2.84; $M_{r\theta}$0.20; $M_{r\phi}$−0.36; $M_{\theta\phi}$−1.44. Depth 7km; Principal axes: T 3.52,Plg4°,Azm66°; N −0.36,Plg1°, Azm336°; P −3.16,Plg86°,Azm234°. Best double couple: $M_0$3.3×10^{17}Nm; NP1:ϕ_S157°,δ41°, λ−89°. NP2:ϕ_S335°,δ49°,λ−91°.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c75; Mantle waves: s21,c27; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−3.11±.10; $M_{\theta\theta}$0.85±.08; $M_{\phi\phi}$2.26±.10; $M_{r\theta}$1.05±.24; $M_{r\phi}$−0.53±.29; $M_{\theta\phi}$−2.45±.10. Principal Axes: T 4.26,Plg8°,Azm52°; N −0.89,Plg12°,Azm320°; P −3.38,Plg75°,Azm176°. Best double couple: $M_0$3.8×10^{17}Nm, NP1:ϕ_S156°,δ38°,λ−71°. NP2:ϕ_S312°,δ54°,λ−105°.								
ISC	**IX**	**26 00 39 44.0**±.95		**43.08N**±.056	**12.7E**±.10	**10**±6.8		**23**	**0-9**
ROM	IX	26 00 39 42.2		43.1N	12.4E	5	3.0D		¶97ix3817
LDG	IX	26 00 39 42.7		42.8N	13.2E		3.3L		
ISC	**IX**	**26 00 55 17**±2.3		**43.01N**±.084	**13.0E**±.26	**6**		**4**	**0-1**
ROM	IX	26 00 55 16.5		43.0N	13.0E	6	2.6D		¶97ix3819
ISC	Poorly determined								
ISC	**IX**	**26 00 56 31.2**±.85		**43.00N**±.066	**12.7E**±.14	**24**±8.9		**27**	**0-8**
LDG	IX	26 00 56 29.3		42.9N	13.0E		3.0L		¶97ix3820
ROM	IX	26 00 56 31.0		42.9N	12.6E	5	2.9D		
ISC	**IX**	**26 00 59 22.4**±.99		**43.06N**±.041	**12.83E**±.077	**14**±7.2		**29**	**0-8**
ROM	IX	26 00 59 23.6		42.9N	12.6E	5	2.8D		¶97ix3821
ISC	**IX**	**26 01 13 28**±4.2		**43.1N**±.13	**12.4E**±.43	**12**		**4**	**0-1**
ROM	IX	26 01 13 30.0		43.0N	12.8E	12	2.0D		¶97ix3823
ISC	Poorly determined								
ISC	**IX**	**26 01 17 54**±1.2		**42.99N**±.075	**12.9E**±.16	**10**		**5**	**0-1**
ROM	IX	26 01 17 53.7		43.0N	12.9E	10	2.2D		¶97ix3825
ROM	**IX**	**26 01 26 00.5**		**43.0N**	**13.0E**	**5**	**2.0D**		¶97ix3826
ROM	**IX**	**26 01 26 46.9**		**43.0N**	**12.9E**	**10**	**2.5D**		¶97ix3827
ROM	**IX**	**26 01 28 04.8**		**43.0N**	**13.0E**	**5**	**2.3D**		¶97ix3828
ROM	**IX**	**26 01 29 35.9**		**43.0N**	**12.9E**	**10**	**2.2D**		¶97ix3829
ISC	**IX**	**26 01 31 09**±1.2		**43.05N**±.091	**12.9E**±.16	**5**		**4**	**0-2**
ROM	IX	26 01 31 08.8		43.0N	12.9E	5	2.3D		¶97ix3830
ISC	Poorly determined								
ISC	**IX**	**26 01 31 38**±1.3		**43.10N**±.079	**12.9E**±.16	**5**		**4**	**0-1**
ROM	IX	26 01 31 37.7		43.1N	12.9E	5	2.5D		¶97ix3831
ISC	Poorly determined								
ISC	**IX**	**26 01 35 10**±1.1		**42.79N**±.078	**13.1E**±.13	**10**		**21**	**3-9**
LDG	IX	26 01 35 12.6		42.8N	13.1E		3.0L		¶97ix3832
NEIC	IX	26 01 35 13.4		43.03N	12.84E	10			
NEIC	MD3.3(ROM), Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**IX**	**26 01 42 39**±2.5		**43.1N**±.15	**13.1E**±.28	**17**		**4**	**0-1**
ROM	IX	26 01 42 39.8		43.0N	13.0E	17	2.3D		¶97ix3833
ISC	Poorly determined								
ISC	**IX**	**26 01 45 06.4**±.83		**43.01N**±.031	**12.62E**±.049	**3**±7.2	**3.9b**	**55**	**0-71**
ROM	IX	26 01 45 04.7		43.1N	12.9E	6	2.8D		¶97ix3834
LDG	IX	26 01 45 04.8		42.8N	13.1E		3.0L		
NEIC	IX	26 01 45 07.2		42.98N	12.60E	10			
EIDC	IX	26 01 45 16.5		43.7N	12.8E	0	3.8b,3.4L		
ISC	**IX**	**26 01 53 10.8**±.90		**43.00N**±.066	**12.8E**±.14	**5**		**6**	**0-2**
ROM	IX	26 01 53 10.5		43.0N	12.8E	5	2.8D		¶97ix3835
ISC	**IX**	**26 01 53 53.8**±.86		**43.01N**±.032	**12.96E**±.044	**4**±7.2	3.8b	**92**	**0-27**
ROM	IX	26 01 53 53.4		43.0N	13.0E	6	3.4D		¶97ix3836
NEIC	IX	26 01 53 54.3		42.97N	12.94E	10			
LDG	IX	26 01 53 55.0		42.9N	13.1E		3.4L		
STR	IX	26 01 54 03.5		43.35N	12.37E	10	3.8L		
EIDC	IX	26 01 54 04.0		43.7N	13.3E	0	3.9L,4.0b		
NEIC	ML3.9(VIE)								
NEIC	Felt I=V MCS in the epicentral area.								
ISC	**IX**	**26 02 03 36**±1.3		**43.03N**±.083	**12.9E**±.18	**10**		**4**	**0-1**
ROM	IX	26 02 03 35.9		43.0N	12.9E	10	2.2D		¶97ix3837
ISC	Poorly determined								
ISC	**IX**	**26 02 06 00**±1.0		**42.99N**±.062	**12.9E**±.15	**5**		**6**	**0-6**
ROM	IX	26 02 05 58.7		43.0N	13.0E	5	2.5D		¶97ix3838
ISC	**IX**	**26 02 07 16.6**±.92		**43.00N**±.032	**12.82E**±.035	**8**±7.0	4.0b	**90**	**0-27**
LDG	IX	26 02 07 15.7		42.9N	13.1E		3.6L		¶97ix3839
NEIC	IX	26 02 07 16.9		42.97N	12.80E	10			
ROM	IX	26 02 07 17.7		43.1N	12.8E	5	3.6D		
STR	IX	26 02 07 24.0		43.32N	12.38E	10	4.0L		
EIDC	IX	26 02 07 24.1		43.6N	12.8E	0	4.0L,4.2b		
NEIC	ML4.2(VIE)								
NEIC	Felt I=V MCS in the epicentral area.								
ISC	**IX**	**26 02 09 22**±4.7		**42.8N**±.17	**13.2E**±.43	**5**		**10**	**0-7**
LDG	IX	26 02 09 27.3		42.9N	13.1E		2.8L		¶97ix3840
ROM	IX	26 02 09 28.9		43.1N	12.8E	5	2.6D		
ISC	**IX**	**26 02 16 09**±1.3		**43.05N**±.083	**12.9E**±.18	**10**		**4**	**0-1**
ROM	IX	26 02 16 08.4		43.0N	12.9E	10	1.9D		¶97ix3841
ISC	Poorly determined								

ISC IX 26 02 18 47±1.2 **43.06N**±.079 **12.8E**±.16 **5** **4 0-1**
ROM IX 26 02 18 46.6 43.1N 12.8E 5 2.0D **¶97ix3842**
ISC Poorly determined
ISC IX 26 02 28 13±1.3 **43.03N**±.080 **12.9E**±.18 **6**±24 **5 0-1**
ROM IX 26 02 28 12.5 43.0N 12.9E 5 2.0D **¶97ix3844**
ISC Poorly determined
ROM IX 26 02 31 09.7 43.0N 12.9E 10 2.0D ¶97ix3845
ISC IX 26 02 35 09±1.2 **43.00N**±.066 **12.9E**±.13 **10**±10 **12 0-7**
ROM IX 26 02 35 08.4 43.0N 13.0E 5 2.8D **¶97ix3846**
LDG IX 26 02 35 10.4 42.8N 13.0E 3.0L
ISC IX 26 02 39 52±1.1 **43.13N**±.050 **12.91E**±.093 **12**±7.6 **24 0-8**
NEIC IX 26 02 39 47.3 42.91N 13.23E 10 **¶97ix3847**
LDG IX 26 02 39 50.7 42.9N 13.1E 3.2L
ROM IX 26 02 39 51.7 43.1N 12.9E 5 3.0D
NEIC Less reliable solution.
ISC IX 26 02 51 29±1.2 **43.02N**±.048 **12.86E**±.097 **13**±8.9 **21 0-7**
ROM IX 26 02 51 27.5 43.0N 12.9E 5 2.7D **¶97ix3849**
LDG IX 26 02 51 28.8 42.9N 13.1E 3.2L
NEIC IX 26 02 51 29.6 43.13N 12.74E 10
NEIC M_L3.3(VIE), Less reliable solution.
ISC IX 26 02 54 22.0±.92 **43.01N**±.034 **12.86E**±.045 **10**±6.8 4.1b **70 0-72**
ROM IX 26 02 54 21.1 43.0N 13.0E 5 3.0D **¶97ix3850**
NEIC IX 26 02 54 22.0 43.02N 12.84E 10
LDG IX 26 02 54 23.4 43.0N 13.0E 3.5L
EIDC IX 26 02 54 25.5 43.4N 13.4E 0 3.7L,4.0b
STR IX 26 02 54 33.0 43.42N 12.05E 10 3.9L
NEIC $M_{L4.2}$(VIE)
ROM IX 26 03 02 12.6 43.1N 12.9E 5 2.2D ¶97ix3851
ISC IX 26 03 04 30±1.3 **43.05N**±.093 **12.9E**±.16 **5** **4 0-1**
ROM IX 26 03 04 30.2 43.1N 12.9E 5 2.4D **¶97ix3852**
ISC Poorly determined
ROM IX 26 03 10 29.0 43.0N 12.9E 10 2.2D ¶97ix3853
ISC IX 26 03 24 53.4±.99 **43.04N**±.064 **12.8E**±.14 **7** **7 0-3**
ROM IX 26 03 24 52.7 43.1N 12.8E 7 2.6D **¶97ix3855**
ISC IX 26 03 26 07±1.2 **43.01N**±.060 **13.0E**±.14 **3**±13 **9 0-6**
ROM IX 26 03 26 06.3 43.0N 13.0E 5 2.5D **¶97ix3857**
ROM IX 26 03 28 38.6 43.0N 12.3E 6 2.1D ¶97ix3858
ROM IX 26 03 40 42.1 43.0N 12.9E 10 2.0D ¶97ix3861
ROM IX 26 03 45 19.9 43.1N 13.0E 5 1.8D ¶97ix3862
ISC IX 26 03 52 30±1.0 **43.03N**±.064 **12.9E**±.14 **5** **6 0-1**
ROM IX 26 03 52 28.7 43.0N 12.9E 5 2.4D **¶97ix3865**
ISC IX 26 03 53 40.9±.95 **43.08N**±.075 **12.9E**±.13 **5** **6 0-2**
ROM IX 26 03 53 40.7 43.1N 12.9E 5 2.6D **¶97ix3866**
ISC IX 26 04 11 57.6±.83 **43.02N**±.065 **12.82E**±.085 **10** **17 0-7**
NEIC IX 26 04 11 55.5 43.00N 13.06E 10 **¶97ix3870**
ROM IX 26 04 11 56.3 43.0N 12.8E 5 3.1D
LDG IX 26 04 11 56.4 42.8N 13.2E 3.4L
NEIC Less reliable solution.
ISC IX 26 04 14 14.4±.79 **43.02N**±.026 **12.77E**±.028 **1**±6.5 **117 0-20**
LDG IX 26 04 14 14.0 42.9N 13.1E 3.8L **¶97ix3871**
ROM IX 26 04 14 14.3 43.0N 12.8E 5 3.3D
NEIC IX 26 04 14 16.0 43.03N 12.70E 10
EIDC IX 26 04 14 19.1 43.2N 13.5E 0 4.0L
STR IX 26 04 14 20.8 43.25N 12.48E 10 4.1L
PDG IX 26 04 14 21.5 42.4N 13.2E 10 3.8L
NEIC $M_{L4.2}$(VIE)
ISC IX 26 04 20 12±2.1 **42.99N**±.091 **12.9E**±.25 **10** **4 0-1**
ROM IX 26 04 20 12.4 43.0N 12.9E 10 1.9D **¶97ix3873**
ISC Poorly determined
ISC IX 26 04 21 34±1.1 **42.98N**±.066 **12.9E**±.16 **5** **6 0-1**
ROM IX 26 04 21 33.5 43.0N 12.9E 5 2.3D **¶97ix3874**
ISC IX 26 04 23 14.8±.67 **43.00N**±.040 **12.76E**±.064 **18**±7.1 **39 0-8**
LDG IX 26 04 23 11.9 42.9N 13.3E 3.5L **¶97ix3875**
ROM IX 26 04 23 13.7 43.0N 12.9E 7 2.9D
NEIC IX 26 04 23 15.2 43.07N 12.64E 10
NEIC M_L3.7(VIE), Less reliable solution.
ISC IX 26 04 28 52±1.2 **43.01N**±.064 **12.75E**±.095 **14**±7.7 **20 0-7**
ROM IX 26 04 28 49.8 43.0N 12.9E 4 2.8D **¶97ix3877**
LDG IX 26 04 28 49.8 42.9N 13.2E 3.1L
NEIC IX 26 04 28 53.9 43.20N 12.56E 10
NEIC Less reliable solution.
ISC IX 26 04 38 47±1.0 **43.03N**±.048 **12.88E**±.096 **11**±8.4 **22 0-7**
ROM IX 26 04 38 46.1 43.0N 12.9E 7 3.0D **¶97ix3879**
LDG IX 26 04 38 49.2 42.9N 12.8E 3.2L
ISC IX 26 04 44 24.9±.56 **43.03N**±.043 **12.66E**±.093 **5** **15 1-5**
ROM IX 26 04 44 23.1 43.0N 12.9E 5 2.2D **¶97ix3880**
ISC IX 26 04 44 44.0±.32 **42.97N**±.037 **12.91E**±.031 **10** 3.7b **98 1-71**
NEIC IX 26 04 44 36.8 42.55N 13.38E 10 **¶97ix3881**
LDG IX 26 04 44 44.7 42.9N 13.1E 3.8L
EIDC IX 26 04 44 45.8 43.1N 13.7E 0 4.1L,3.4s
PDG IX 26 04 44 48.4 44.0N 13.4E 10 3.6L
STR IX 26 04 44 49.2 43.20N 12.72E 10 4.2L
NEIC $M_{L4.4}$(VIE)
NEIC MD 3.7 (ROM). Felt I=V MCS in the epicentral area.
ISC IX 26 04 52 00±1.9 **43.01N**±.087 **12.9E**±.23 **7**±19 **5 0-1**
ROM IX 26 04 52 00.9 43.0N 12.8E 9 2.5D **¶97ix3882**
ISC Poorly determined
ISC IX 26 05 28 26.2±.91 **43.07N**±.052 **13.0E**±.10 **4**±13 **9 0-6**
ROM IX 26 05 28 25.9 43.0N 13.0E 3 2.7D **¶97ix3884**
ISC IX 26 05 37 43±1.2 **43.01N**±.073 **13.0E**±.16 **5**±19 **6 0-1**
ROM IX 26 05 37 42.9 43.0N 12.9E 6 2.7D **¶97ix3885**
ISC IX 26 05 38 39±1.2 **43.03N**±.053 **12.9E**±.10 **15**±8.8 **20 0-7**
LDG IX 26 05 38 37.2 42.9N 13.3E 3.4L **¶97ix3886**
ROM IX 26 05 38 38.3 43.0N 13.0E 5 2.9D
ISC IX 26 05 59 25±1.9 **43.01N**±.087 **12.9E**±.23 **6**±19 **5 0-1**
ROM IX 26 05 59 24.6 43.0N 12.9E 4 2.4D **¶97ix3890**
ISC Poorly determined
ROM IX 26 06 10 25.2 43.0N 12.9E 5 2.1D ¶97ix3892
ISC IX 26 06 19 52.3±.93 **43.03N**±.072 **12.9E**±.15 **13** **7 0-1**
ROM IX 26 06 19 51.2 43.0N 12.9E 13 2.5D **¶97ix3893**
ISC IX 26 06 30 46±1.3 **43.02N**±.077 **12.9E**±.17 **5** **4 0-1**
ROM IX 26 06 30 44.8 43.0N 12.9E 5 2.3D **¶97ix3894**
ISC Poorly determined
ROM IX 26 06 34 17.4 43.0N 12.9E 5 1.9D ¶97ix3895
ISC IX 26 06 34 53±1.1 **43.00N**±.066 **12.9E**±.15 **5** **6 0-4**
ROM IX 26 06 34 52.5 43.0N 13.0E 5 2.4D **¶97ix3896**
ROM IX 26 06 42 39.4 43.0N 12.9E 10 2.1D ¶97ix3898
ROM IX 26 06 46 30.1 43.0N 12.9E 5 1.8D ¶97ix3899
ISC IX 26 07 05 05.9±.96 **43.03N**±.037 **12.90E**±.056 **11**±7.1 3.7b **45 0-71**
ROM IX 26 07 05 05.0 43.0N 13.0E 5 3.0D **¶97ix3901**
NEIC IX 26 07 05 05.1 42.97N 12.88E 10
EIDC IX 26 07 05 08.8 43.3N 13.7E 0 4.0L,3.7b
NEIC $M_{L3.9}$(VIE).
ROM IX 26 07 11 27.3 43.0N 12.9E 10 2.3D ¶97ix3904
ISC IX 26 07 25 55±1.3 **42.96N**±.077 **12.9E**±.18 **5** **4 0-1**
ROM IX 26 07 25 54.1 43.0N 12.9E 5 2.0D **¶97ix3907**
ISC Poorly determined
ISC IX 26 07 31 06±1.3 **43.03N**±.079 **12.9E**±.16 **2**±29 **5 0-1**
ROM IX 26 07 31 05.1 43.0N 12.9E 5 2.1D **¶97ix3910**
ISC Poorly determined
ISC IX 26 07 31 48±1.1 **43.02N**±.065 **12.9E**±.14 **6**±11 **8 0-2**
ROM IX 26 07 31 47.1 43.0N 12.9E 3 2.6D **¶97ix3911**
ISC IX 26 07 35 36.3±.80 **42.97N**±.037 **12.73E**±.057 **9**±6.5 **48 0-18**
NEIC IX 26 07 35 34.3 42.82N 12.80E 10 **¶97ix3912**
ROM IX 26 07 35 35.5 43.0N 12.9E 6 3.0D
LDG IX 26 07 35 36.0 43.0N 13.0E 3.5L
NEIC M_L4.0(VIE), Less reliable solution.
ROM IX 26 07 46 23.6 43.0N 12.9E 5 1.9D ¶97ix3915
ROM IX 26 07 50 00.5 43.1N 12.8E 5 2.4D ¶97ix3916
ISC IX 26 08 05 38±1.2 **43.04N**±.074 **12.9E**±.14 **9**±13 **7 0-2**
ROM IX 26 08 05 37.6 43.1N 12.9E 8 2.2D **¶97ix3920**
ISC IX 26 08 12 02.4±.96 **42.98N**±.037 **12.78E**±.059 **15**±7.6 **41 0-8**
LDG IX 26 08 12 01.1 42.9N 13.1E 3.4L **¶97ix3921**
ROM IX 26 08 12 01.4 43.0N 12.9E 7 3.0D
NEIC IX 26 08 12 01.6 42.96N 12.76E 10
NEIC M_L3.7(VIE), Less reliable solution.
ISC IX 26 08 30 14.0±.88 **42.97N**±.036 **12.90E**±.050 **4**±7.0 3.8b **46 0-75**
ROM IX 26 08 30 13.6 43.0N 13.0E 5 3.2D **¶97ix3923**
NEIC IX 26 08 30 14.3 42.93N 12.84E 10
LDG IX 26 08 30 14.8 43.0N 13.1E 3.4L
EIDC IX 26 08 30 16.2 43.0N 13.3E 0 3.9L,3.8b
NEIC M_L4.0(VIE)
ISC IX 26 08 40 36±1.5 **43.0N**±.12 **12.8E**±.30 **7** **4 0-1**
ROM IX 26 08 40 34.7 43.0N 12.9E 7 2.5D **¶97ix3924**
ISC Poorly determined
ROM IX 26 09 14 05.2 43.0N 12.9E 10 2.1D ¶97ix3931
ROM IX 26 09 19 27.1 43.0N 12.8E 5 2.2D ¶97ix3933
ROM IX 26 09 19 55.4 43.1N 12.8E 10 1.9D ¶97ix3934
ISC IX 26 09 24 10±1.2 **43.03N**±.066 **12.9E**±.14 **2**±15 **7 0-1**
ROM IX 26 09 24 09.9 43.0N 12.9E 8 2.8D **¶97ix3935**
ISC IX 26 09 33 48.2±.74 **43.04N**±.022 **12.79E**±.025 **9**±5.5 **4.2b 153 0-87**
ROM IX 26 09 33 47.1 43.0N 12.9E 6 3.8D **¶97ix3937**
NEIC IX 26 09 33 48.3 43.04N 12.78E 10 4.4b
LDG IX 26 09 33 48.5 43.0N 12.9E 4.1L
PDG IX 26 09 33 55.1 42.8N 13.3E 10 4.2L
EIDC IX 26 09 33 56.9 43.2N 12.7E 53 3.8b,4.4L
STR IX 26 09 33 57.5 43.40N 12.17E 10 4.5L
NEIC $M_{L4.7}$(VIE)
ISC IX 26 09 40 25.3±.50 **43.09N**±.013 **12.82E**±.013 **0**±3.4 **5.7b,6.1s 642 0-150**
ROM IX 26 09 40 24.9 43.0N 12.9E 6 5.8D **¶97ix3938**
BJI IX 26 09 40 25.7 43.06N 12.79E 10 6.0b,6.4s
MOS IX 26 09 40 26.2 43.1N 12.9E 10 6.4b,6.0s
NEIC IX 26 09 40 26.3 43.08N 12.81E 10 5.7b,6.0s
CSEM IX 26 09 40 27.0 43.09N 12.96E 10
LDG IX 26 09 40 27.8 42.9N 12.8E 5.6L
LEDBW IX 26 09 40 28.8 42.49N 12.76E 10 6.0L
PDG IX 26 09 40 28.9 42.6N 12.9E 10 5.8D
EIDC IX 26 09 40 29.5 43.0N 12.7E 18 5.2b,6.0s
THE IX 26 09 40 32.1 43.0N 12.7E
HRVD IX 26 09 40 33.3±.1 43.08N±.01 12.78E±.02 15
STR IX 26 09 40 34.2 43.33N 12.33E 10 6.0L
ISC Felt I=IV−V MSK in Log pri Brezovici (after CEY)
NEIC M_L6.4(VIE), Me6.1(GS). Casualties I=X MM.
NEIC Radiated energy from the P−wave first−motion solution: 2.9±0.7×10^{13}Nm/18
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S200°,δ55°,λ−30°. NP2:ϕ_S308°,δ66°, λ−141°. Principal axes: T Plg7°,Azm72°; P Plg44°,Azm168°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s26, scale 10^{17}Nm; M_{rr}−9.90; $M_{\theta\theta}$3.10; $M_{\phi\phi}$6.70; $M_{r\theta}$1.00; $M_{r\phi}$−0.70; $M_{\theta\phi}$−5.70. Depth 3km; Principal axes: T 11.0,Plg3°,Azm54°; N −1.0,Plg2°, Azm324°; P −9.9,Plg86°,Azm199°. Best double couple: $M_0$1.0×10^{18}Nm; NP1:ϕ_S146°,δ42°, λ−87°. NP2:ϕ_S322°,δ48°,λ−93°.
NEIC Mw 6.0 (GS), 6.0 (HRV). ML 6.2 (FUR). Eleven people killed, more than 100 injured and about 80,000 homes destroyed or damaged in the Marche and Umbria regions by this earthquake and the event at 00:33:12 UTC on September 26. Maximum intensity I=X MCS at Serravalle di Chienti and IX MCS at Valtopina. Extensive damage to the Basilica of St. Francis at Assisi. Felt in many parts of central and northern Italy from Bologna and Modena to Rome. Felt IV MSK in western and central Slovenia and III MSK in southern Karnten Province, Austria.
NEIC Felt I=III MSK southern Carinthia (after WTTA)
CSEM Mw6.0. M_0=1.1×10^{18}Nm. Fault plane solution NP1:ϕ_S75°,δ45°,λ−128°. NP2:ϕ_S303°,δ56°, λ−58°. Principal Axes: T Plg6°,Azm11°; N Plg26°,Azm104°; P Plg63°,Azm269°.
LEDBW Felt I=XI MSK
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c100; Mantle waves: s36,c55; Half duration: 2s7. Moment tensor: Scale 10^{18}Nm; M_{rr}−1.07±.01; $M_{\theta\theta}$0.43±.01; $M_{\phi\phi}$0.64±.01; $M_{r\theta}$0.18±.05; $M_{r\phi}$−0.16±.05; $M_{\theta\phi}$−0.61±.01. Principal Axes: T 1.18,Plg6°,Azm50°; N −0.09,Plg2°,Azm320°; P −1.09,Plg84°,Azm214°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S142°,δ39°,λ−87°. NP2:ϕ_S318°,δ51°,λ−92°.
ISC IX 26 09 47 38.5±.22 **43.16N**±.027 **12.80E**±.032 **10** **4.6b**,5.6s **118 1-143**
BJI IX 26 09 47 37.6 43.93N 12.45E 5 5.2b **¶97ix3939**
EIDC IX 26 09 47 38.3 43.1N 12.9E 0 4.4b,4.5L
MOS IX 26 09 47 38.5 43.1N 12.8E 10 5.0b
NEIC IX 26 09 47 38.6 43.16N 12.75E 10 4.7b
LDG IX 26 09 47 40.1 43.1N 12.8E 4.7L
PDG IX 26 09 47 46.8 42.7N 13.5E 11 4.6L
NEIC $M_{L5.3}$(VIE), $M_{L4.7}$(ROM)
NEIC Additional damage I=VII MCS to buildings in the epicentral area.
ISC IX 26 09 53 43±1.3 **42.95N**±.063 **12.89E**±.095 **11**±8.4 4.0b **28 0-67**
LDG IX 26 09 53 42.1 42.8N 13.2E 3.6L **¶97ix3940**
ROM IX 26 09 53 42.2 43.0N 13.0E 5 2.8D
NEIC IX 26 09 53 43.8 43.00N 12.83E 10
EIDC IX 26 09 53 45.1 43.0N 13.3E 0 4.0L,3.8b
NEIC Less reliable solution.
ISC IX 26 10 00 37±3.7 **42.9N**±.15 **13.0E**±.31 **5** **13 0-7**
ROM IX 26 10 00 38.7 43.1N 12.9E 5 2.8D **¶97ix3941**
LDG IX 26 10 00 40.0 42.9N 13.0E 3.4L
ISC IX 26 10 02 31.5±.93 **43.02N**±.069 **12.8E**±.13 **20**±9.5 **20 0-7**
ROM IX 26 10 02 30.8 43.1N 12.9E 4 2.5D **¶97ix3942**
LDG IX 26 10 02 31.9 42.9N 12.9E 3.4L
ROM IX 26 10 09 40.8 43.1N 12.9E 6 2.1D ¶97ix3943
ISC IX 26 10 16 05±1.6 **43.07N**±.080 **12.8E**±.17 **4** **4 0-1**
ROM IX 26 10 16 04.6 43.1N 12.8E 4 2.0D **¶97ix3944**
ISC Poorly determined

Agency		Origin Time	φ	λ	h	Mag	n	Δ-Rng
		mo d h m s	°	°	km			°
ISC	**IX**	**26 10 18 04**±1.1	**43.00N**±.052	**12.77E**±.081	**13**±7.9		**23**	**0-7**
LDG	IX	26 10 18 02.3	42.8N	13.1E		3.3L		¶97ix3945
ROM	IX	26 10 18 03.1	43.1N	12.9E	5	2.7D		
NEIC	IX	26 10 18 04.8	42.97N	12.63E	10			
NEIC	M_L3.7(VIE), Poor solution.							
ISC	**IX**	**26 10 20 46.3**±.89	**43.07N**±.067	**12.8E**±.14	**20**±11		**11**	**0-7**
LDG	IX	26 10 20 44.5	42.9N	13.1E		3.4L		¶97ix3946
NEIC	IX	26 10 20 46.0	43.13N	12.75E	10			
ROM	IX	26 10 20 46.1	43.0N	12.9E	10	2.6D		
NEIC	Poor solution.							
ISC	**IX**	**26 10 23 25**±2.0	**43.09N**±.075	**12.9E**±.19	**13**±10		**10**	**0-7**
ROM	IX	26 10 23 24.5	43.1N	12.9E	6	2.8D		¶97ix3947
ISC	**IX**	**26 10 25 46.0**±.81	**43.04N**±.062	**12.8E**±.10	**10**		**16**	**1-7**
LDG	IX	26 10 25 44.8	42.9N	13.1E		3.2L		¶97ix3948
ROM	IX	26 10 25 45.3	43.0N	12.9E	5	2.6D		
NEIC	IX	26 10 25 48.3	43.20N	12.58E	10			
NEIC	Less reliable solution.							
ISC	**IX**	**26 10 31 07**±1.7	**43.07N**±.083	**12.8E**±.19	**4**		**4**	**0-1**
ROM	IX	26 10 31 05.9	43.1N	12.9E	4	2.5D		¶97ix3949
ISC	Poorly determined							
ROM	**IX**	**26 10 39 57.5**	**43.1N**	**12.9E**	**5**	**2.4D**		**¶97ix3951**
ISC	**IX**	**26 10 40 44**±1.2	**43.12N**±.071	**12.8E**±.16	**18**±11		**18**	**0-7**
LDG	IX	26 10 40 42.2	42.9N	13.1E		3.5L		¶97ix3952
ROM	IX	26 10 40 43.9	43.1N	12.8E	10	2.6D		
ISC	**IX**	**26 10 41 13**±1.5	**43.23N**±.091	**12.6E**±.21	**15**±15		**6**	**0-3**
ROM	IX	26 10 41 12.0	43.2N	12.6E	15	3.1D		¶97ix3953
ISC	Poorly determined							
ISC	**IX**	**26 10 43 04.3**±.91	**43.08N**±.059	**12.9E**±.13	**21**±9.4		**18**	**0-7**
ROM	IX	26 10 43 03.6	43.1N	12.9E	5	2.9D		¶97ix3954
LDG	IX	26 10 43 04.9	42.9N	12.9E		3.5L		
ROM	**IX**	**26 10 45 13.9**	**43.0N**	**13.0E**	**5**	**2.2D**		**¶97ix3955**
ISC	**IX**	**26 10 47 50**±1.0	**43.0N**±.12	**12.9E**±.11	**10**		**15**	**3-7**
LDG	IX	26 10 47 49.4	42.8N	13.1E		3.5L		¶97ix3957
NEIC	IX	26 10 47 49.6	42.98N	12.84E	10			
NEIC	Single network solution.							
ISC	**IX**	**26 10 53 39**±1.6	**43.02N**±.063	**13.2E**±.24	**5**±20		**6**	**1-3**
ROM	IX	26 10 53 39.7	43.0N	13.0E	5	2.8D		¶97ix3958
ISC	**IX**	**26 10 59 30**±1.3	**43.02N**±.068	**12.9E**±.15	**9**±13		**7**	**0-1**
ROM	IX	26 10 59 29.6	43.0N	12.9E	6	2.5D		¶97ix3961
ISC	**IX**	**26 11 03 21.7**±.78	**43.06N**±.049	**12.9E**±.11	**2**		**11**	**0-5**
ROM	IX	26 11 03 20.6	43.1N	12.9E	2	2.5D		¶97ix3963
ISC	**IX**	**26 11 04 19.6**±.66	**43.02N**±.047	**12.82E**±.059	**18**±7.1	3.1b	**39**	**0-71**
LDG	IX	26 11 04 18.0	42.8N	13.1E		3.5L		¶97ix3965
ROM	IX	26 11 04 18.7	43.1N	12.9E	7	3.0D		
NEIC	IX	26 11 04 19.2	43.07N	12.77E	10			
EIDC	IX	26 11 04 21.2	43.1N	13.4E	0	4.1L,3.3b		
ISC	**IX**	**26 11 11 48.8**±.75	**43.14N**±.027	**12.74E**±.032	**7**±6.0	**3.9b**	**89**	**0-87**
ROM	IX	26 11 11 48.2	43.1N	12.8E	8	3.6D		¶97ix3968
LDG	IX	26 11 11 48.5	43.0N	13.0E		3.5L		
NEIC	IX	26 11 11 49.9	43.13N	12.58E	10			
PDG	IX	26 11 11 51.9	42.7N	12.9E	10	3.8L		
EIDC	IX	26 11 11 52.3	43.3N	12.9E	0	4.0L,3.8b		
ROM	**IX**	**26 11 13 38.7**	**43.0N**	**12.8E**	**9**	**1.9D**		**¶97ix3970**
ISC	**IX**	**26 11 15 30**±1.6	**43.12N**±.089	**12.8E**±.21	**10**		**4**	**0-1**
ROM	IX	26 11 15 30.2	43.1N	12.8E	10	2.5D		¶97ix3972
ISC	Poorly determined							
ISC	**IX**	**26 11 24 47.2**±.92	**42.97N**±.037	**12.70E**±.060	**14**±7.2	3.4b	**48**	**0-71**
ROM	IX	26 11 24 45.8	43.0N	12.9E	5	2.7D		¶97ix3974
LDG	IX	26 11 24 46.3	42.9N	13.0E		3.4L		
EIDC	IX	26 11 24 48.6	43.0N	12.9E	0	3.8L,3.4b		
NEIC	IX	26 11 24 48.7	43.05N	12.50E	10			
STR	IX	26 11 24 49.7	43.05N	12.53E	10	3.9L		
NEIC	M_L3.8(VIE), Less reliable solution.							
ISC	**IX**	**26 11 27 00.5**±.67	**43.08N**±.054	**12.7E**±.10	**18**±8.8		**22**	**0-8**
LDG	IX	26 11 26 58.2	42.9N	13.0E		3.4L		¶97ix3975
ROM	IX	26 11 26 59.2	43.1N	12.9E	3	2.5D		
NEIC	IX	26 11 27 00.3	43.04N	12.59E	10			
ISC	**IX**	**26 11 42 26**±1.5	**43.1N**±.11	**12.8E**±.21	**5**		**5**	**0-1**
ROM	IX	26 11 42 25.7	43.1N	12.8E	5	2.2D		¶97ix3977
ISC	**IX**	**26 11 52 24**±1.8	**43.04N**±.082	**12.9E**±.21	**4**		**4**	**0-1**
ROM	IX	26 11 52 22.6	43.0N	12.9E	4	2.0D		¶97ix3978
ISC	Poorly determined							
ROM	**IX**	**26 11 52 48.4**	**43.1N**	**12.8E**	**2**	**2.2D**		**¶97ix3979**
ISC	**IX**	**26 12 05 40**±4.4	**43.2N**±.15	**12.5E**±.72	**33**±13		**5**	**0-2**
ROM	IX	26 12 05 40.9	43.1N	12.8E	8	2.3D		¶97ix3983
ISC	Poorly determined							
ISC	**IX**	**26 12 13 46.8**±.84	**43.05N**±.088	**12.7E**±.21	**15**±11		**11**	**0-4**
ROM	IX	26 12 13 46.0	43.1N	12.8E	10	2.6D		¶97ix3985
ISC	**IX**	**26 12 16 28**±1.1	**42.95N**±.090	**12.7E**±.23	**5**±14		**6**	**0-1**
ROM	IX	26 12 16 27.4	42.9N	12.6E	5	2.4D		¶97ix3986
ISC	**IX**	**26 12 19 32**±1.1	**42.98N**±.074	**12.6E**±.16	**5**		**5**	**0-1**
ROM	IX	26 12 19 31.3	43.0N	12.5E	5	2.2D		¶97ix3988
ISC	**IX**	**26 12 24 45**±1.4	**43.15N**±.085	**12.8E**±.22	**10**		**4**	**0-1**
ROM	IX	26 12 24 43.9	43.1N	12.8E	10	2.0D		¶97ix3990
ISC	Poorly determined							
ISC	**IX**	**26 12 25 41.5**±.63	**43.03N**±.039	**12.79E**±.078	**16**±7.7		**28**	**0-7**
LDG	IX	26 12 25 39.7	42.8N	13.1E		3.0L		¶97ix3991
ROM	IX	26 12 25 40.3	43.1N	12.9E	7	2.5D		
NEIC	IX	26 12 25 42.3	43.08N	12.60E	10			
NEIC	Less reliable solution.							
ISC	**IX**	**26 12 31 10.8**±.88	**43.02N**±.053	**12.77E**±.096	**9**±7.7		**14**	**0-7**
ROM	IX	26 12 31 10.2	43.1N	12.9E	5	2.6D		¶97ix3994
ROM	**IX**	**26 12 36 30.4**	**43.1N**	**12.9E**	**5**	**2.0D**		**¶97ix3995**
ISC	**IX**	**26 12 41 11**±1.2	**43.16N**±.069	**12.7E**±.19	**2**±30		**5**	**0-1**
ROM	IX	26 12 41 10.4	43.2N	12.7E	5	1.9D		¶97ix3996
ISC	Poorly determined							
ISC	**IX**	**26 12 45 01**±5.1	**43.2N**±.12	**13.6E**±.46	**5**		**5**	**1-1**
ROM	IX	26 12 45 03.4	43.1N	13.3E	5	2.2D		¶97ix3997
ROM	**IX**	**26 12 50 39.6**	**43.1N**	**12.7E**	**10**	**2.1D**		**¶97ix3998**
ROM	**IX**	**26 12 51 33.8**	**43.1N**	**13.2E**	**5**	**2.0D**		**¶97ix3999**
ROM	**IX**	**26 12 52 56.6**	**43.0N**	**12.9E**	**5**	**2.4D**		**¶97ix4000**
ROM	**IX**	**26 12 54 48.7**	**43.1N**	**12.5E**	**5**	**2.0D**		**¶97ix4002**
ISC	**IX**	**26 12 59 12**±1.3	**42.81N**±.073	**12.7E**±.28	**6**±18		**5**	**0-1**
ROM	IX	26 12 59 12.1	42.8N	12.7E	7	1.8D		¶97ix4005
ISC	Poorly determined							
ISC	**IX**	**26 13 00 04**±1.3	**43.01N**±.079	**12.9E**±.18	**7**		**4**	**0-1**
ROM	IX	26 13 00 03.4	43.0N	12.9E	7	2.0D		¶97ix4006
ISC	Poorly determined							
ISC	**IX**	**26 13 02 56.2**±.75	**43.01N**±.054	**12.9E**±.12	**5**		**11**	**0-4**
ROM	IX	26 13 02 55.4	43.0N	12.9E	5	2.5D		¶97ix4007
ISC	**IX**	**26 13 08 09**±1.1	**42.99N**±.098	**12.7E**±.25	**7**±12		**6**	**0-2**
ROM	IX	26 13 08 07.8	43.1N	12.8E	7	2.1D		¶97ix4010
ISC	**IX**	**26 13 10 12.7**±.73	**43.13N**±.028	**12.71E**±.040	**12**±5.8	3.7b	**71**	**0-71**
STR	IX	26 13 10 07.3	42.79N	13.35E	10	4.2L		¶97ix4012
EIDC	IX	26 13 10 08.6	42.7N	13.4E	0	3.6b,4.1L		
LDG	IX	26 13 10 08.8	42.9N	13.2E		3.5L		
NEIC	IX	26 13 10 11.9	43.06N	12.70E	10	3.8b		
ROM	IX	26 13 10 12.1	43.1N	12.8E	4	3.2D		
NEIC	M_L4.2(VIE)							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	**IX**	**26 13 13 50**±1.1	**42.93N**±.086	**12.7E**±.23	**5**±15		**6**	**0-1**
ROM	IX	26 13 13 50.0	42.9N	12.6E	5	2.0D		¶97ix4013
ISC	**IX**	**26 13 18 05**±1.4	**43.05N**±.070	**12.9E**±.16	**7**±15		**6**	**0-1**
ROM	IX	26 13 18 04.1	43.1N	12.9E	5	2.2D		¶97ix4014
ISC	**IX**	**26 13 21 04**±1.4	**43.07N**±.074	**12.9E**±.15	**9**±14		**6**	**0-1**
ROM	IX	26 13 21 02.8	43.1N	12.9E	5	2.1D		¶97ix4015
ROM	**IX**	**26 13 23 57.2**	**43.1N**	**12.7E**	**10**	**2.0D**		**¶97ix4018**
ISC	**IX**	**26 13 26 59**±1.1	**42.99N**±.053	**12.75E**±.079	**8**±7.5		**58**	**0-20**
LDG	IX	26 13 26 58.1	42.9N	13.1E		3.5L		¶97ix4019
NEIC	IX	26 13 26 58.9	42.94N	12.79E	10			
STR	IX	26 13 27 04.4	43.27N	12.57E	10	3.9L		
EIDC	IX	26 13 27 04.7	43.3N	12.8E	0	4.0L		
NEIC	M_L3.1(ROM).							
ISC	**IX**	**26 13 30 51.9**±.72	**43.04N**±.021	**12.92E**±.022	**8**±5.5	**4.2b**,3.9s	**184**	**0-128**
ROM	IX	26 13 30 50.9	43.0N	13.0E	5	3.7D		¶97ix4020
MOS	IX	26 13 30 51.8	43.0N	13.0E	10	5.0b		
NEIC	IX	26 13 30 51.8	43.03N	12.94E	10	4.7b		
BJI	IX	26 13 30 52.2	42.48N	13.74E	5	4.9b		
EIDC	IX	26 13 30 52.3	43.0N	13.0E	0	4.0b,4.3L		
LDG	IX	26 13 30 53.6	43.0N	13.0E		4.1L		
PDG	IX	26 13 30 56.3	43.2N	13.2E	10	4.1L		
STR	IX	26 13 30 59.0	43.32N	12.51E	10	4.5L		
NEIC	Felt I=VI MCS in the epicentral area.							
ROM	**IX**	**26 13 38 22.0**	**43.1N**	**12.9E**	**10**	**2.4D**		**¶97ix4022**
ISC	**IX**	**26 13 43 42.3**±.61	**43.05N**±.041	**12.70E**±.084	**17**±7.5		**24**	**0-7**
LDG	IX	26 13 43 40.9	42.8N	12.9E		3.3L		¶97ix4023
ROM	IX	26 13 43 41.3	43.1N	12.9E	5	2.8D		
ISC	**IX**	**26 13 46 29.3**±.95	**43.04N**±.035	**12.86E**±.066	**9**±7.1	**3.5b**	**36**	**0-71**
ROM	IX	26 13 46 28.4	43.1N	12.9E	5	3.7D		¶97ix4025
NEIC	IX	26 13 46 28.4	42.92N	12.88E	10			
LDG	IX	26 13 46 29.7	42.8N	13.0E		3.4L		
EIDC	IX	26 13 46 30.7	43.1N	12.9E	0	3.8L,3.4b		
NEIC	Less reliable solution.							
ISC	**IX**	**26 13 52 53.7**±.84	**43.02N**±.029	**12.87E**±.044	**2**±6.9	**3.8b**	**75**	**0-75**
ROM	IX	26 13 52 53.6	43.0N	12.9E	5	3.1D		¶97ix4027
EIDC	IX	26 13 52 54.5	42.9N	13.2E	0	3.9L,3.7b		
NEIC	IX	26 13 52 54.8	43.01N	12.85E	10	3.9b		
LDG	IX	26 13 52 55.5	42.9N	12.9E		3.6L		
STR	IX	26 13 53 00.5	43.29N	12.59E	10	3.9L		
NEIC	M_L4.1(VIE)							
ISC	**IX**	**26 14 09 22.5**±.87	**43.13N**±.056	**12.8E**±.11	**5**		**7**	**0-2**
ROM	IX	26 14 09 21.9	43.1N	12.8E	5	2.1D		¶97ix4032
ISC	**IX**	**26 14 11 51**±1.5	**42.9N**±.11	**12.7E**±.34	**9**±14		**5**	**0-1**
ROM	IX	26 14 11 50.9	42.9N	12.8E	5	2.2D		¶97ix4033
ISC	Poorly determined							
ISC	**IX**	**26 14 12 27.8**±.71	**43.12N**±.041	**12.71E**±.061	**18**±8.3		**35**	**0-8**
NEIC	IX	26 14 12 26.2	43.06N	12.72E	10			¶97ix4035
LDG	IX	26 14 12 27.4	43.0N	12.9E		3.4L		
ROM	IX	26 14 12 28.5	43.0N	12.6E	5	2.9D		
ISC	**IX**	**26 14 15 48**±1.4	**42.94N**±.097	**12.8E**±.29	**6**		**6**	**0-1**
ROM	IX	26 14 15 48.2	42.9N	12.7E	6	2.5D		¶97ix4036
ROM	**IX**	**26 14 25 15.8**	**43.2N**	**12.7E**	**16**	**1.9D**		**¶97ix4039**
ISC	**IX**	**26 14 26 19**±1.2	**42.93N**±.086	**12.7E**±.23	**4**±15		**6**	**0-1**
ROM	IX	26 14 26 18.7	42.9N	12.7E	5	2.1D		¶97ix4040
ISC	**IX**	**26 14 34 52**±2.1	**43.02N**±.076	**13.0E**±.23	**5**		**5**	**0-1**
ROM	IX	26 14 34 52.3	43.1N	12.9E	5	2.1D		¶97ix4042
ISC	**IX**	**26 14 43 19**±2.1	**42.7N**±.11	**12.5E**±.39	**24**±19		**5**	**0-1**
ROM	IX	26 14 43 19.4	42.7N	12.5E	12	2.0D		¶97ix4043
ISC	Poorly determined							
ISC	**IX**	**26 14 44 37**±1.1	**43.04N**±.068	**12.9E**±.14	**5**		**5**	**0-1**
ROM	IX	26 14 44 36.2	43.1N	12.9E	5	2.1D		¶97ix4045
ISC	**IX**	**26 14 53 53.8**±.93	**43.08N**±.061	**12.7E**±.13	**23**±8.6		**23**	**0-7**
ROM	IX	26 14 53 53.7	43.1N	12.8E	10	2.4D		¶97ix4051
ISC	**IX**	**26 14 54 27.2**±.72	**43.02N**±.021	**12.90E**±.023	**9**±5.6	**4.2b**	**183**	**0-143**
BJI	IX	26 14 54 23.8	43.54N	11.97E	10	5.0b		¶97ix4052
ROM	IX	26 14 54 25.9	43.0N	13.0E	4	3.7D		
LDG	IX	26 14 54 26.0	42.9N	13.3E		4.0L		
EIDC	IX	26 14 54 26.4	42.8N	13.0E	0	3.9b,4.2L		
NEIC	IX	26 14 54 27.8	43.07N	12.85E	10	4.0b		
PDG	IX	26 14 54 28.0	43.6N	13.0E	11	4.4L		
MOS	IX	26 14 54 28.9	43.2N	13.1E	10	5.0b		
STR	IX	26 14 54 48.9	43.90N	11.08E	10	4.1L		
NEIC	M_L4.6(VIE)							
NEIC	Felt I=V MKS in the epicentral area.							
ISC	**IX**	**26 15 16 49**±1.4	**43.12N**±.067	**12.8E**±.16	**4**±18		**6**	**0-2**
ROM	IX	26 15 16 49.0	43.1N	12.8E	7	2.1D		¶97ix4054
ISC	**IX**	**26 15 19 13.8**±.78	**43.04N**±.051	**12.9E**±.11	**18**±8.9		**20**	**0-7**
ROM	IX	26 15 19 13.3	43.0N	12.9E	8	2.8D		¶97ix4055
LDG	IX	26 15 19 21.5	43.2N	12.3E		2.9L		
NEIC	IX	26 15 19 23.6	43.49N	11.88E	10			
NEIC	Less reliable solution.							
ROM	**IX**	**26 15 25 30.4**	**43.2N**	**12.7E**	**5**	**2.3D**		**¶97ix4057**
ISC	**IX**	**26 15 32 43.0**±.81	**43.10N**±.066	**12.6E**±.15	**8**		**7**	**0-2**
ROM	IX	26 15 32 42.7	43.1N	12.7E	8	2.4D		¶97ix4059
ISC	**IX**	**26 15 34 30**±1.7	**43.09N**±.090	**12.8E**±.20	**8**		**4**	**0-1**
ROM	IX	26 15 34 29.8	43.1N	12.8E	8	1.9D		¶97ix4060
ISC	Poorly determined							
ISC	**IX**	**26 15 40 09**±1.1	**43.08N**±.062	**12.8E**±.12	**1**±17		**7**	**0-2**
ROM	IX	26 15 40 09.0	43.1N	12.8E	7	2.3D		¶97ix4061
ISC	**IX**	**26 15 43 31.6**±.89	**43.18N**±.058	**12.8E**±.12	**5**		**7**	**0-2**
ROM	IX	26 15 43 31.1	43.2N	12.8E	5	2.3D		¶97ix4063
ISC	**IX**	**26 15 46 56**±1.7	**43.0N**±.11	**13.0E**±.22	**7**		**5**	**0-1**
ROM	IX	26 15 46 55.4	43.1N	13.0E	7	2.1D		¶97ix4064
ISC	**IX**	**26 15 53 26**±1.1	**43.05N**±.054	**13.0E**±.13	**6**±12		**9**	**0-1**
ROM	IX	26 15 53 25.1	43.1N	13.0E	5	2.3D		¶97ix4066
ISC	**IX**	**26 16 01 43**±2.2	**42.93N**±.086	**12.9E**±.28	**7**±20		**5**	**0-1**
ROM	IX	26 16 01 41.5	42.9N	13.0E	5	1.9D		¶97ix4068
ISC	Poorly determined							

ISC	**IX**	**26 16 03 49.1**±.74	**43.13N**±.049	**12.9E**±.10	**5**		**9**	**0-4**	
ROM	IX	26 16 03 49.1	43.1N	12.9E	5	2.7D			¶97ix4069
ISC	**IX**	**26 16 10 27**±1.7	**43.04N**±.085	**12.9E**±.17	**3**±15		**9**	**0-2**	
ROM	IX	26 16 10 26.4	43.1N	12.9E	5	2.7D			¶97ix4070
ISC	**IX**	**26 16 17 53**±1.3	**43.03N**±.079	**12.9E**±.17	**4**±26		**5**	**0-1**	
ROM	IX	26 16 17 52.9	43.0N	12.9E	5	2.0D			¶97ix4072
ISC	Poorly determined								
ISC	**IX**	**26 16 18 38.3**±.58	**43.03N**±.032	**12.88E**±.044	**26**±6.7		**65**	**0-8**	
LDG	IX	26 16 18 37.0	42.9N	13.1E		3.5L			¶97ix4073
NEIC	IX	26 16 18 37.3	43.08N	12.88E	10				
ROM	IX	26 16 18 38.6	42.9N	12.8E	7	3.2D			
STR	IX	26 16 18 43.4	43.29N	12.49E	10	4.0L			
NEIC	$M_{L4.0}$(VIE)								
NEIC	ML 3.5 (LDG). Felt I=V MCS in the epicentral area.								
ISC	**IX**	**26 16 21 47**±1.2	**43.04N**±.059	**12.9E**±.14	**7**±13		**8**	**0-2**	
ROM	IX	26 16 21 45.9	43.1N	12.9E	5	2.6D			¶97ix4074
ISC	**IX**	**26 16 29 22**±1.4	**43.06N**±.096	**12.8E**±.36	**15**±33		**5**	**0-2**	
ROM	IX	26 16 29 21.8	43.0N	12.8E	10	2.0D			¶97ix4075
ISC	Poorly determined								
ISC	**IX**	**26 16 30 05**±1.4	**42.99N**±.097	**12.8E**±.33	**20**±31		**5**	**0-1**	
ROM	IX	26 16 30 05.2	43.0N	12.9E	10	2.4D			¶97ix4076
ISC	Poorly determined								
ISC	**IX**	**26 16 39 00**±1.1	**43.06N**±.073	**12.8E**±.15	**10**		**5**	**0-1**	
ROM	IX	26 16 38 59.9	43.1N	12.8E	10	2.2D			¶97ix4078
ROM	**IX**	**26 16 46 33.4**	**43.0N**	**12.4E**	**25**	**2.1D**			¶97ix4081
ISC	**IX**	**26 16 49 57**±1.1	**43.12N**±.084	**12.7E**±.17	**18**±10		**15**	**0-7**	
ROM	IX	26 16 49 56.1	43.1N	12.8E	5	2.6D			¶97ix4083
ROM	**IX**	**26 16 52 05.6**	**43.2N**	**12.9E**	**5**	**2.0D**			¶97ix4084
ISC	**IX**	**26 16 58 00**±1.1	**43.02N**±.066	**12.9E**±.14	**3**±14		**7**	**0-1**	
ROM	IX	26 16 57 59.9	43.1N	12.9E	5	2.2D			¶97ix4085
ISC	**IX**	**26 17 03 56**±1.5	**43.01N**±.071	**12.9E**±.17	**3**±16		**6**	**0-1**	
ROM	IX	26 17 03 55.7	43.0N	12.9E	5	2.3D			¶97ix4086
ISC	**IX**	**26 17 05 01**±1.7	**43.08N**±.090	**12.8E**±.20	**8**		**4**	**0-1**	
ROM	IX	26 17 05 00.8	43.1N	12.8E	8	2.2D			¶97ix4087
ISC	Poorly determined								
ISC	**IX**	**26 17 10 17.4**±.74	**43.02N**±.051	**12.9E**±.10	**20**±8.8		**22**	**0-8**	
ROM	IX	26 17 10 16.2	43.0N	13.0E	5	2.8D			¶97ix4089
LDG	IX	26 17 10 16.3	42.8N	13.1E		3.2L			
NEIC	IX	26 17 10 19.8	43.18N	12.53E	10				
NEIC	Less reliable solution.								
ISC	**IX**	**26 17 13 00**±2.1	**43.16N**±.086	**12.9E**±.15	**13**±13		**14**	**0-8**	
LDG	IX	26 17 12 58.3	42.9N	13.3E		3.1L			¶97ix4090
ROM	IX	26 17 13 02.1	42.9N	12.6E	5	2.6D			
ISC	**IX**	**26 17 20 25**±1.1	**43.02N**±.066	**12.9E**±.14	**3**±15		**7**	**0-1**	
ROM	IX	26 17 20 24.9	43.0N	12.9E	5	2.6D			¶97ix4092
ISC	**IX**	**26 17 26 31**±2.3	**43.04N**±.095	**12.9E**±.24	**10**±16		**5**	**0-1**	
ROM	IX	26 17 26 29.8	43.1N	13.0E	5	2.2D			¶97ix4093
ISC	Poorly determined								
ISC	**IX**	**26 17 32 13**±4.6	**43.2N**±.15	**12.4E**±.47	**5**		**4**	**0-2**	
ROM	IX	26 17 32 13.4	43.2N	12.5E	5	2.0D			¶97ix4094
ISC	Poorly determined								
ISC	**IX**	**26 17 41 51**±1.0	**43.18N**±.057	**12.7E**±.14	**1**±15		**7**	**0-2**	
ROM	IX	26 17 41 50.3	43.2N	12.7E	5	2.3D			¶97ix4095
ROM	**IX**	**26 17 55 01.3**	**43.0N**	**12.9E**	**5**	**2.0D**			¶97ix4096
ISC	**IX**	**26 17 56 30**±1.4	**43.13N**±.066	**12.8E**±.17	**5**		**5**	**0-1**	
ROM	IX	26 17 56 28.9	43.1N	12.8E	5	2.1D			¶97ix4097
ISC	**IX**	**26 18 00 36**±1.0	**43.04N**±.057	**12.8E**±.11	**11**±7.8		**18**	**0-7**	
ROM	IX	26 18 00 35.7	43.1N	12.9E	6	2.4D			¶97ix4099
NEIC	IX	26 18 00 36.0	43.04N	12.77E	10				
NEIC	Single network solution.								
ISC	**IX**	**26 18 02 19**±1.0	**43.05N**±.057	**13.0E**±.12	**16**±13		**16**	**0-7**	
ROM	IX	26 18 02 18.0	43.0N	13.1E	10	2.4D			¶97ix4100
ISC	**IX**	**26 18 11 07**±1.8	**43.05N**±.083	**12.9E**±.21	**5**		**4**	**0-1**	
ROM	IX	26 18 11 06.2	43.1N	12.9E	5	1.9D			¶97ix4102
ISC	Poorly determined								
ISC	**IX**	**26 18 22 21**±1.5	**43.03N**±.079	**13.0E**±.17	**10**±16		**6**	**0-1**	
ROM	IX	26 18 22 20.9	43.0N	13.0E	5	2.3D			¶97ix4106
ISC	**IX**	**26 18 25 26.9**±.98	**43.06N**±.065	**12.8E**±.12	**12**±11		**7**	**0-4**	
ROM	IX	26 18 25 26.0	43.1N	12.9E	6	2.4D			¶97ix4107
ISC	**IX**	**26 18 44 45.0**±.58	**43.03N**±.034	**12.77E**±.047	**18**±6.6		**57**	**0-8**	
LDG	IX	26 18 44 43.6	42.9N	13.1E		3.4L			¶97ix4111
ROM	IX	26 18 44 43.8	43.1N	12.9E	7	3.0D			
NEIC	IX	26 18 44 44.0	43.03N	12.73E	10				
STR	IX	26 18 44 52.0	43.31N	12.35E	10	3.9L			
NEIC	$M_{L4.0}$(VIE)								
ISC	**IX**	**26 19 05 55**±1.0	**42.92N**±.062	**12.8E**±.15	**2**±14		**8**	**0-1**	
ROM	IX	26 19 05 54.9	42.9N	12.9E	3	2.3D			¶97ix4115
ISC	**IX**	**26 19 09 00**±1.4	**43.01N**±.076	**13.1E**±.20	**6**±16		**6**	**0-1**	
ROM	IX	26 19 08 59.1	43.0N	13.1E	3	1.8D			¶97ix4117
ISC	**IX**	**26 19 11 28.4**±.72	**43.02N**±.052	**12.7E**±.12	**17**±9.0		**17**	**0-7**	
ROM	IX	26 19 11 27.5	43.1N	12.9E	5	2.3D			¶97ix4119
ISC	**IX**	**26 19 16 20.4**±.81	**43.02N**±.032	**12.75E**±.056	**11**±6.5		**55**	**0-8**	
LDG	IX	26 19 16 19.2	42.9N	13.1E		3.3L			¶97ix4120
ROM	IX	26 19 16 20.0	43.0N	12.8E	9	2.9D			
NEIC	IX	26 19 16 21.5	43.03N	12.57E	10				
NEIC	$M_{L3.9}$(VIE)								
ISC	**IX**	**26 19 28 43.2**±.82	**43.02N**±.039	**12.72E**±.070	**11**±6.6		**39**	**0-8**	
ROM	IX	26 19 28 42.4	43.0N	12.8E	5	2.4D			¶97ix4121
LDG	IX	26 19 28 43.9	42.9N	12.8E		3.3L			
NEIC	IX	26 19 28 44.0	43.01N	12.57E	10				
ISC	**IX**	**26 19 34 06.2**±.76	**43.04N**±.032	**12.69E**±.049	**11**±6.0		**51**	**0-8**	
LDG	IX	26 19 34 03.3	42.9N	13.2E		3.3L			¶97ix4122
ROM	IX	26 19 34 04.3	43.0N	12.9E	4	2.9D			
NEIC	IX	26 19 34 06.3	43.03N	12.65E	10				
NEIC	$M_{L3.6}$(VIE)								
ISC	**IX**	**26 19 42 57**±1.3	**43.12N**±.057	**12.8E**±.14	**2**±17		**7**	**0-2**	
ROM	IX	26 19 42 57.0	43.1N	12.8E	5	2.2D			¶97ix4124
ISC	**IX**	**26 19 46 32**±1.1	**43.07N**±.069	**12.8E**±.13	**1**±27		**6**	**0-1**	
ROM	IX	26 19 46 31.4	43.1N	12.8E	6	1.9D			¶97ix4125
LDG	**IX**	**26 19 50 43.9**	**43.0N**	**12.8E**		**3.0L**			¶97ix4126
ISC	**IX**	**26 20 01 28**±1.1	**43.01N**±.071	**12.7E**±.18	**6**±12		**6**	**0-2**	
ROM	IX	26 20 01 27.4	43.1N	12.8E	8	2.0D			¶97ix4128
ISC	**IX**	**26 20 04 46**±1.0	**42.89N**±.066	**12.8E**±.16	**3**±14		**7**	**0-1**	
ROM	IX	26 20 04 45.7	42.9N	12.8E	10	2.1D			¶97ix4129
ISC	**IX**	**26 20 13 33**±2.0	**42.98N**±.093	**13.0E**±.21	**2**±16		**8**	**0-2**	
ROM	IX	26 20 13 32.5	42.9N	12.9E	5	2.1D			¶97ix4132
ISC	**IX**	**26 20 20 29.4**±.88	**43.06N**±.049	**12.75E**±.078	**11**±6.6		**25**	**0-8**	
LDG	IX	26 20 20 27.3	42.9N	13.2E		3.0L			¶97ix4133
ROM	IX	26 20 20 28.9	43.1N	12.8E	7	2.8D			
ISC	**IX**	**26 20 23 25.9**±.97	**43.01N**±.043	**13.02E**±.092	**10**±8.8		**23**	**0-7**	
ROM	IX	26 20 23 26.0	43.0N	13.0E	5	2.8D			¶97ix4134
LDG	IX	26 20 23 26.0	42.9N	13.3E		3.0L			
NEIC	IX	26 20 23 31.9	43.21N	12.43E	10				
NEIC	Less reliable solution.								
ISC	**IX**	**26 20 29 47**±2.3	**43.02N**±.085	**13.0E**±.25	**5**		**4**	**0-1**	
ROM	IX	26 20 29 46.3	43.0N	13.0E	5	2.0D			¶97ix4135
ISC	Poorly determined								
ISC	**IX**	**26 20 48 29**±1.0	**43.03N**±.064	**12.9E**±.14	**5**		**6**	**0-1**	
ROM	IX	26 20 48 28.5	43.0N	12.9E	5	2.1D			¶97ix4139
ISC	**IX**	**26 20 51 41.8**±.93	**43.11N**±.062	**12.7E**±.14	**19**±9.0		**19**	**0-7**	
LDG	IX	26 20 51 40.6	43.0N	13.0E		2.8L			¶97ix4140
ROM	IX	26 20 51 40.7	43.1N	12.8E	7	2.4D			
ISC	**IX**	**26 21 01 32**±1.2	**43.04N**±.054	**12.87E**±.085	**15**±8.6		**21**	**0-7**	
ROM	IX	26 21 01 30.4	43.0N	13.0E	5	2.4D			¶97ix4142
LDG	IX	26 21 01 31.5	42.9N	13.1E		3.0L			
NEIC	IX	26 21 01 33.3	43.19N	12.69E	10				
NEIC	Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**IX**	**26 21 02 18**±1.5	**43.07N**±.070	**13.0E**±.16	**13**±15		**7**	**0-4**	
ROM	IX	26 21 02 17.7	43.0N	13.0E	5	2.7D			¶97ix4143
ISC	**IX**	**26 21 12 43**±2.1	**43.04N**±.088	**12.8E**±.30	**14**±19		**5**	**0-2**	
ROM	IX	26 21 12 42.2	43.0N	12.9E	5	1.9D			¶97ix4144
ISC	Poorly determined								
ISC	**IX**	**26 21 24 43**±1.1	**43.03N**±.068	**12.9E**±.14	**3**±18		**7**	**0-1**	
ROM	IX	26 21 24 42.0	43.1N	12.9E	5	2.1D			¶97ix4146
ISC	**IX**	**26 21 33 34**±1.7	**43.1N**±.12	**12.8E**±.21	**5**		**4**	**0-1**	
ROM	IX	26 21 33 33.3	43.2N	12.8E	5	2.2D			¶97ix4149
ISC	Poorly determined								
ISC	**IX**	**26 21 39 19.4**±.77	**43.02N**±.051	**12.9E**±.12	**5**		**9**	**0-1**	
ROM	IX	26 21 39 18.8	43.0N	12.9E	5	2.4D			¶97ix4151
ISC	**IX**	**26 21 44 50**±1.2	**43.03N**±.071	**12.9E**±.15	**0**±29		**6**	**0-1**	
ROM	IX	26 21 44 48.9	43.0N	12.9E	5	2.0D			¶97ix4152
ISC	**IX**	**26 21 50 27**±1.1	**42.99N**±.064	**13.0E**±.15	**5**		**7**	**0-4**	
ROM	IX	26 21 50 26.6	43.0N	13.0E	5	2.6D			¶97ix4153
ROM	**IX**	**26 21 52 31.7**	**43.0N**	**12.9E**	**5**	**2.1D**			¶97ix4154
ISC	**IX**	**26 21 56 49.9**±.88	**43.04N**±.057	**12.8E**±.13	**21**±9.1		**18**	**0-7**	
ROM	IX	26 21 56 48.8	43.0N	12.9E	5	2.6D			¶97ix4155
LDG	IX	26 21 56 50.1	42.9N	12.9E		2.9L			
ISC	**IX**	**26 22 03 01**±1.1	**42.98N**±.042	**12.83E**±.081	**12**±8.7		**25**	**0-7**	
ROM	IX	26 22 03 00.2	43.0N	12.9E	6	2.9D			¶97ix4157
LDG	IX	26 22 03 04.4	42.9N	12.7E		2.9L			
NEIC	IX	26 22 03 07.5	43.20N	12.19E	10				
NEIC	Less reliable solution.								
ISC	**IX**	**26 22 14 45**±1.0	**43.08N**±.073	**12.8E**±.18	**11**		**5**	**0-2**	
ROM	IX	26 22 14 44.6	43.1N	12.6E	11	2.4D			¶97ix4160
ISC	**IX**	**26 22 30 51**±1.1	**43.06N**±.050	**12.9E**±.10	**11**±8.3		**19**	**0-7**	
ROM	IX	26 22 30 50.0	43.0N	12.9E	5	2.8D			¶97ix4163
LDG	IX	26 22 30 51.2	43.0N	13.1E		2.9L			
ISC	**IX**	**26 22 38 57**±1.2	**43.12N**±.061	**12.8E**±.13	**5**±13		**7**	**0-2**	
ROM	IX	26 22 38 56.9	43.1N	12.8E	5	2.3D			¶97ix4164
ROM	**IX**	**26 22 40 02.2**	**43.0N**	**13.0E**	**5**	**2.2D**			¶97ix4165
ISC	**IX**	**26 22 42 32**±1.8	**43.0N**±.11	**12.8E**±.29	**6**±14		**7**	**0-2**	
ROM	IX	26 22 42 30.6	43.1N	12.8E	5	2.4D			¶97ix4166
ISC	**IX**	**26 22 52 14**±1.4	**43.15N**±.074	**12.7E**±.19	**5**		**4**	**0-1**	
ROM	IX	26 22 52 13.4	43.2N	12.7E	5	2.0D			¶97ix4168
ISC	Poorly determined								
ISC	**IX**	**26 22 54 43**±1.0	**42.98N**±.075	**12.9E**±.17	**11**		**5**	**0-1**	
ROM	IX	26 22 54 43.6	43.0N	12.8E	11	2.0D			¶97ix4169
ISC	**IX**	**26 22 56 04**±6.0	**43.0N**±.25	**12.9E**±.69	**6**±43		**5**	**0-1**	
ROM	IX	26 22 56 05.0	42.9N	12.8E	10	2.3D			¶97ix4170
ISC	Poorly determined								
ISC	**IX**	**26 22 57 10**±1.2	**43.17N**±.075	**12.7E**±.13	**12**±8.6		**20**	**0-7**	
LDG	IX	26 22 57 08.2	43.0N	13.1E		2.8L			¶97ix4171
ROM	IX	26 22 57 10.8	43.1N	12.6E	10	2.5D			
NEIC	IX	26 22 57 12.3	43.30N	12.47E	10				
NEIC	Less reliable solution.								
ISC	**IX**	**26 23 01 05.7**±.99	**43.15N**±.053	**12.65E**±.086	**11**±8.7		**22**	**0-7**	
LDG	IX	26 23 01 04.3	43.0N	13.0E		3.0L			¶97ix4172
ROM	IX	26 23 01 05.9	43.1N	12.7E	9	2.9D			
NEIC	IX	26 23 01 08.6	43.32N	12.39E	10				
NEIC	Less reliable solution.								
ISC	**IX**	**26 23 04 05**±1.0	**43.08N**±.078	**12.8E**±.19	**20**		**5**	**0-1**	
ROM	IX	26 23 04 04.9	43.0N	12.8E	20	2.1D			¶97ix4175
ISC	**IX**	**26 23 08 28**±1.0	**43.05N**±.060	**12.9E**±.13	**4**±13		**8**	**0-2**	
ROM	IX	26 23 08 28.1	43.1N	12.9E	5	1.8D			¶97ix4176
ISC	**IX**	**26 23 16 45**±1.1	**43.02N**±.046	**12.8E**±.10	**13**±8.3		**27**	**0-8**	
ROM	IX	26 23 16 44.1	43.0N	12.9E	4	2.6D			¶97ix4177
LDG	IX	26 23 16 44.1	42.8N	13.1E		3.0L			
ISC	**IX**	**26 23 20 55**±1.3	**43.02N**±.077	**12.9E**±.16	**5**		**4**	**0-1**	
ROM	IX	26 23 20 53.9	43.0N	12.9E	5	2.0D			¶97ix4178
ISC	Poorly determined								
ISC	**IX**	**26 23 22 02.9**±.86	**43.19N**±.043	**12.70E**±.093	**10**±8.4		**25**	**0-7**	
LDG	IX	26 23 22 01.4	43.0N	13.1E		3.0L			¶97ix4179
ROM	IX	26 23 22 02.6	43.2N	12.8E	5	2.4D			
NEIC	IX	26 23 22 03.9	43.30N	12.59E	10				
NEIC	Less reliable solution.								
ROM	**IX**	**26 23 23 38.4**	**43.1N**	**12.9E**	**7**	**2.2D**			¶97ix4180
ISC	**IX**	**26 23 34 18**±1.2	**42.97N**±.069	**12.9E**±.17	**5**		**5**	**0-1**	
ROM	IX	26 23 34 17.8	43.0N	12.9E	5	2.0D			¶97ix4181
ISC	**IX**	**26 23 43 38**±2.2	**43.02N**±.085	**13.0E**±.25	**5**		**4**	**0-1**	
ROM	IX	26 23 43 37.9	43.0N	12.9E	5	2.0D			¶97ix4184
ISC	Poorly determined								
ISC	**IX**	**26 23 46 55.2**±.93	**43.10N**±.062	**12.8E**±.12	**5**		**6**	**0-2**	
ROM	IX	26 23 46 54.8	43.1N	12.8E	5	2.0D			¶97ix4185
ISC	**IX**	**26 23 53 18**±1.3	**43.06N**±.075	**12.8E**±.16	**10**±13		**6**	**0-1**	
ROM	IX	26 23 53 16.7	43.1N	12.9E	5	2.1D			¶97ix4186
ISC	**IX**	**26 23 54 19.3**±.78	**42.97N**±.039	**12.70E**±.091	**10**±7.5		**26**	**0-8**	
ROM	IX	26 23 54 18.2	43.0N	12.9E	5	2.7D			¶97ix4187
NEIC	IX	26 23 54 19.6	43.04N	12.69E	10				
LDG	IX	26 23 54 20.7	43.0N	12.8E		3.1L			
NEIC	Less reliable solution.								
ISC	**IX**	**26 23 58 18.6**±.70	**43.01N**±.044	**12.81E**±.081	**17**±7.8		**28**	**0-8**	
ROM	IX	26 23 58 17.3	43.0N	12.9E	3	2.7D			¶97ix4188
LDG	IX	26 23 58 17.4	42.9N	13.1E		3.1L			
NEIC	IX	26 23 58 19.8	43.17N	12.65E	10				
NEIC	Less reliable solution.								
ROM	**IX**	**27 00 04 26.3**	**43.0N**	**13.0E**	**5**	**2.0D**			¶97ix4190
ROM	**IX**	**27 00 05 18.7**	**43.1N**	**12.8E**	**7**	**1.9D**			¶97ix4191
ISC	**IX**	**27 00 13 59**±1.8	**43.02N**±.094	**12.9E**±.24	**13**		**4**	**0-1**	
ROM	IX	27 00 13 58.4	43.0N	12.9E	13	2.0D			¶97ix4192
ISC	Poorly determined								

Agency	mo	Origin Time d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**IX**	**27 00 15 15**±2.2	**43.01N**±.091	**13.0E**±.25	**10**		**4**	**0-1**
ROM	IX	27 00 15 15.3	43.0N	12.9E	10	1.9D		¶97ix4193
ISC		Poorly determined						
ISC	**IX**	**27 00 21 23.8**±.86	**43.05N**±.061	**12.8E**±.12	**4**		**7**	**0-2**
ROM	IX	27 00 21 22.8	43.1N	12.9E	4	2.1D		¶97ix4195
ISC	**IX**	**27 00 27 31.2**±.75	**43.04N**±.051	**12.8E**±.12	**6**		**9**	**0-2**
ROM	IX	27 00 27 30.3	43.1N	12.9E	6	2.5D		¶97ix4196
ISC	**IX**	**27 00 28 44**±2.8	**43.01N**±.096	**13.1E**±.30	**10**		**4**	**0-1**
ROM	IX	27 00 28 44.3	43.0N	13.1E	10	2.0D		¶97ix4197
ISC		Poorly determined						
ISC	**IX**	**27 00 29 35**±1.5	**42.99N**±.094	**12.5E**±.19	**10**		**4**	**0-1**
ROM	IX	27 00 29 35.0	43.0N	12.5E	10	2.1D		¶97ix4198
ISC		Poorly determined						
ISC	**IX**	**27 00 36 05**±1.1	**43.15N**±.065	**12.8E**±.15	**5**		**5**	**0-2**
ROM	IX	27 00 36 03.1	43.1N	12.9E	5	2.0D		¶97ix4199
ISC	**IX**	**27 00 38 01**±1.5	**43.16N**±.075	**12.8E**±.19	**5**		**4**	**0-1**
ROM	IX	27 00 38 00.4	43.2N	12.7E	5	1.9D		¶97ix4200
ISC		Poorly determined						
ISC	**IX**	**27 00 43 21.0**±.95	**43.04N**±.065	**12.9E**±.13	**5**		**6**	**0-2**
ROM	IX	27 00 43 19.9	43.0N	12.9E	5	2.3D		¶97ix4202
ROM	**IX**	**27 00 45 39.4**	**43.0N**	**12.9E**	**6**	**1.9D**		¶97ix4203
ISC	**IX**	**27 01 00 59.0**±.74	**43.04N**±.047	**12.9E**±.12	**5**		**10**	**0-2**
ROM	IX	27 01 00 58.5	43.1N	12.9E	5	2.5D		¶97ix4204
ISC	**IX**	**27 01 01 57**±1.1	**43.05N**±.079	**12.7E**±.19	**8**±14		**5**	**0-1**
ROM	IX	27 01 01 56.4	43.1N	12.8E	5	2.4D		¶97ix4205
ISC		Poorly determined						
ISC	**IX**	**27 01 04 52.4**±.94	**43.08N**±.065	**12.8E**±.12	**5**		**6**	**0-2**
ROM	IX	27 01 04 51.4	43.1N	12.9E	5	2.1D		¶97ix4206
ISC	**IX**	**27 01 07 49**±1.3	**42.98N**±.080	**13.0E**±.19	**3**±24		**5**	**0-1**
ROM	IX	27 01 07 48.1	43.0N	12.9E	5	1.6D		¶97ix4207
ISC		Poorly determined						
ISC	**IX**	**27 01 10 40**±1.1	**43.11N**±.082	**12.8E**±.20	**20**		**5**	**0-2**
ROM	IX	27 01 10 40.2	43.1N	12.8E	20	2.0D		¶97ix4208
ISC	**IX**	**27 01 22 26**±1.3	**43.4N**±.11	**12.5E**±.14	**10**±17		**5**	**0-2**
ROM	IX	27 01 22 25.9	43.4N	12.5E	5	2.3D		¶97ix4210
ISC		Poorly determined						
ROM	**IX**	**27 01 27 06.7**	**43.1N**	**12.9E**	**5**	**1.9D**		¶97ix4213
ISC	**IX**	**27 01 38 45.0**±.68	**43.04N**±.046	**12.9E**±.11	**5**		**11**	**0-4**
ROM	IX	27 01 38 44.7	43.1N	12.8E	5	2.5D		¶97ix4214
ISC	**IX**	**27 01 49 09.7**±.64	**43.00N**±.042	**12.9E**±.10	**5**		**12**	**0-3**
ROM	IX	27 01 49 08.7	43.0N	12.9E	5	2.6D		¶97ix4215
ROM	**IX**	**27 01 49 42.7**	**42.9N**	**13.0E**	**5**	**2.9D**		¶97ix4216
ISC	**IX**	**27 01 54 13**±2.0	**43.03N**±.084	**12.9E**±.23	**5**		**4**	**0-1**
ROM	IX	27 01 54 13.4	43.1N	12.9E	5	2.4D		¶97ix4218
ISC		Poorly determined						
ISC	**IX**	**27 02 02 22.2**±.98	**43.03N**±.058	**12.9E**±.14	**5**		**7**	**0-1**
ROM	IX	27 02 02 21.0	43.0N	12.9E	5	2.1D		¶97ix4220
ISC	**IX**	**27 02 12 25.4**±.81	**43.02N**±.038	**12.78E**±.076	**9**±6.9		**26**	**0-7**
NEIC	IX	27 02 12 18.9	42.86N	13.36E	10			¶97ix4222
ROM	IX	27 02 12 24.6	43.0N	12.9E	5	3.0D		
LDG	IX	27 02 12 26.3	42.9N	12.9E		3.1L		
NEIC		Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**IX**	**27 02 17 24.3**±.76	**43.10N**±.024	**12.85E**±.027	**13**±5.9	**4.2b**	**121**	**0-71**
EIDC	IX	27 02 17 23.5	43.1N	13.2E	0	4.0L,4.1b		¶97ix4223
LDG	IX	27 02 17 23.6	43.0N	13.1E		3.7L		
NEIC	IX	27 02 17 24.0	43.09N	12.78E	10			
ROM	IX	27 02 17 24.5	43.1N	12.9E	5	3.5D		
STR	IX	27 02 17 25.6	43.04N	12.81E	10	4.1L		
PDG	IX	27 02 17 29.3	42.8N	13.3E	11	3.8L		
NEIC		$M_{L4.2}$(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ROM	**IX**	**27 02 23 36.1**	**43.1N**	**12.8E**	**5**	**2.0D**		¶97ix4224
ISC	**IX**	**27 02 32 05**±1.7	**43.06N**±.083	**12.8E**±.19	**5**		**4**	**0-1**
ROM	IX	27 02 32 03.6	43.1N	12.8E	5	2.0D		¶97ix4225
ISC		Poorly determined						
ISC	**IX**	**27 02 40 23.0**±.85	**43.04N**±.048	**12.9E**±.13	**5**		**9**	**0-2**
ROM	IX	27 02 40 22.4	43.1N	12.9E	5	2.4D		¶97ix4227
ISC	**IX**	**27 02 46 33**±1.5	**43.05N**±.093	**12.8E**±.19	**8**±16		**5**	**0-2**
ROM	IX	27 02 46 33.6	43.1N	12.8E	10	2.0D		¶97ix4228
ISC		Poorly determined						
ISC	**IX**	**27 02 52 35.8**±.78	**43.01N**±.052	**12.9E**±.13	**5**		**9**	**0-1**
ROM	IX	27 02 52 35.0	43.0N	12.9E	5	2.3D		¶97ix4229
ISC	**IX**	**27 03 03 21.2**±.78	**43.05N**±.025	**12.79E**±.029	**11**±6.2		**97**	**0-20**
ROM	IX	27 03 03 20.3	43.1N	12.9E	4	3.6D		¶97ix4232
NEIC	IX	27 03 03 21.0	43.03N	12.77E	10			
LDG	IX	27 03 03 22.3	43.0N	12.9E		3.5L		
PDG	IX	27 03 03 26.4	42.8N	13.2E	10	3.8L		
STR	IX	27 03 03 28.0	43.28N	12.31E	10	3.9L		
EIDC	IX	27 03 03 29.9	43.7N	13.2E	0	3.7L		
NEIC		$M_{L4.1}$(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	**IX**	**27 03 13 14**±1.8	**43.06N**±.090	**12.9E**±.22	**10**		**4**	**0-1**
ROM	IX	27 03 13 15.0	43.1N	12.8E	10	2.3D		¶97ix4234
ISC		Poorly determined						
ISC	**IX**	**27 03 16 29**±2.1	**43.03N**±.091	**13.0E**±.24	**10**		**4**	**0-1**
ROM	IX	27 03 16 29.3	43.0N	13.0E	10	2.0D		¶97ix4235
ISC		Poorly determined						
ISC	**IX**	**27 03 18 47**±1.0	**43.04N**±.054	**12.8E**±.16	**7**±12		**8**	**0-2**
ROM	IX	27 03 18 46.3	43.0N	12.8E	5	2.4D		¶97ix4236
ISC	**IX**	**27 03 26 37.7**±.80	**43.08N**±.054	**12.8E**±.12	**5**		**8**	**0-2**
ROM	IX	27 03 26 37.2	43.1N	12.8E	5	2.3D		¶97ix4237
ISC	**IX**	**27 03 37 52**±1.0	**43.02N**±.062	**12.9E**±.14	**5**		**6**	**0-1**
ROM	IX	27 03 37 50.7	43.0N	12.9E	5	2.5D		¶97ix4238
ISC	**IX**	**27 03 40 27.3**±.83	**43.10N**±.056	**12.8E**±.13	**5**		**7**	**0-2**
ROM	IX	27 03 40 27.1	43.2N	12.8E	5	2.2D		¶97ix4239
ROM	**IX**	**27 03 47 06.0**	**43.1N**	**12.9E**	**10**	**2.1D**		¶97ix4240
ISC	**IX**	**27 03 51 28**±1.4	**43.1N**±.10	**12.7E**±.16	**5**		**4**	**0-2**
ROM	IX	27 03 51 27.5	43.1N	12.8E	5	2.2D		¶97ix4241
ISC		Poorly determined						
ISC	**IX**	**27 03 56 04.0**±.93	**43.03N**±.063	**12.9E**±.13	**5**		**7**	**0-1**
ROM	IX	27 03 56 03.2	43.1N	13.0E	5	2.3D		¶97ix4242
ROM	**IX**	**27 04 03 32.4**	**43.1N**	**12.8E**	**10**	**1.8D**		¶97ix4244
ISC	**IX**	**27 04 10 51**±1.1	**43.07N**±.069	**12.8E**±.14	**5**		**5**	**0-1**
ROM	IX	27 04 10 49.7	43.1N	12.8E	5	2.1D		¶97ix4245
ISC	**IX**	**27 04 17 37**±2.7	**43.03N**±.095	**13.1E**±.29	**10**		**4**	**0-1**
ROM	IX	27 04 17 36.9	43.0N	13.0E	10	2.0D		¶97ix4246
ISC		Poorly determined						
ISC	**IX**	**27 04 57 15.3**±.79	**43.00N**±.026	**12.77E**±.034	**12**±6.0	**3.9b**	**118**	**0-71**
LDG	IX	27 04 57 13.9	42.9N	13.1E		3.8L		¶97ix4249
ROM	IX	27 04 57 14.3	43.0N	12.9E	5	3.7D		
STR	IX	27 04 57 14.6	42.92N	12.97E	10	4.2L		
EIDC	IX	27 04 57 14.7	42.9N	12.8E	0	3.8b,4.0L		
NEIC	IX	27 04 57 15.6	43.04N	12.72E	10	4.0b		
NEIC		$M_{L4.2}$(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ROM	**IX**	**27 05 10 10.6**	**43.0N**	**12.9E**	**9**	**1.9D**		¶97ix4252
ISC	**IX**	**27 05 11 36**±2.4	**42.99N**±.093	**13.0E**±.27	**10**		**4**	**0-1**
ROM	IX	27 05 11 36.6	43.0N	12.9E	10	2.0D		¶97ix4253
ISC		Poorly determined						
ISC	**IX**	**27 05 19 47.7**±.89	**42.94N**±.064	**12.9E**±.14	**5**		**7**	**0-1**
ROM	IX	27 05 19 47.5	43.0N	12.9E	5	2.4D		¶97ix4254
ROM	**IX**	**27 05 24 36.8**	**43.1N**	**12.8E**	**6**	**2.0D**		¶97ix4257
ROM	**IX**	**27 05 25 58.5**	**43.1N**	**12.9E**	**6**	**1.9D**		¶97ix4258
ROM	**IX**	**27 05 34 01.2**	**43.1N**	**12.8E**	**7**	**2.1D**		¶97ix4260
ISC	**IX**	**27 05 41 27**±1.5	**43.06N**±.096	**13.1E**±.22	**21**		**4**	**0-1**
ROM	IX	27 05 41 27.1	43.0N	13.0E	21	2.3D		¶97ix4261
ISC		Poorly determined						
ISC	**IX**	**27 05 51 24.7**±.59	**43.06N**±.039	**13.02E**±.081	**5**		**16**	**0-20**
ROM	IX	27 05 51 24.9	43.0N	12.9E	5	2.8D		¶97ix4264
EIDC	IX	27 05 51 44.9	44.6N	13.5E	0	3.2L		
ISC	**IX**	**27 05 52 57**±1.1	**43.04N**±.041	**13.02E**±.066	**11**±8.3	3.4b	**29**	**0-71**
NEIC	IX	27 05 52 56.3	43.03N	13.03E	10			¶97ix4265
ROM	IX	27 05 52 56.9	43.0N	12.9E	5	3.3D		
EIDC	IX	27 05 52 59.0	43.2N	13.3E	0	3.8L,3.3b		
NEIC		Felt I=V MCS in the epicentral area.						
ISC	**IX**	**27 06 03 03.2**±.77	**43.05N**±.024	**12.72E**±.026	**15**±6.0	**4.0b**	**133**	**0-71**
LDG	IX	27 06 03 01.1	42.9N	13.1E		3.9L		¶97ix4267
ROM	IX	27 06 03 02.1	43.1N	12.8E	5	3.9D		
NEIC	IX	27 06 03 02.7	43.07N	12.69E	10	4.0b		
EIDC	IX	27 06 03 06.2	43.3N	13.3E	0	3.9L,3.9b		
PDG	IX	27 06 03 06.8	42.7N	13.0E	10	4.2L		
STR	IX	27 06 03 10.5	43.31N	12.12E	10	4.1L		
NEIC		$M_{L4.2}$(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	**IX**	**27 06 09 48.0**±.82	**42.94N**±.039	**12.81E**±.072	**10**±6.8		**25**	**0-7**
ROM	IX	27 06 09 47.8	43.0N	12.9E	5	2.9D		¶97ix4269
LDG	IX	27 06 09 47.9	42.8N	13.0E		3.0L		
NEIC	IX	27 06 09 48.6	42.90N	12.69E	10			
ISC	**IX**	**27 06 23 54**±1.2	**42.94N**±.071	**12.9E**±.16	**0**±18		**6**	**0-1**
ROM	IX	27 06 23 53.5	43.0N	12.9E	5	2.7D		¶97ix4271
ISC	**IX**	**27 06 30 10**±1.6	**43.11N**±.083	**12.8E**±.20	**6**		**4**	**0-1**
ROM	IX	27 06 30 10.0	43.1N	12.8E	6	2.1D		¶97ix4272
ISC		Poorly determined						
ISC	**IX**	**27 06 36 14**±2.2	**43.03N**±.092	**13.0E**±.25	**10**		**4**	**0-1**
ROM	IX	27 06 36 13.7	43.0N	13.0E	10	1.9D		¶97ix4273
ISC		Poorly determined						
ISC	**IX**	**27 06 43 12**±1.8	**43.07N**±.090	**12.9E**±.22	**9**		**4**	**0-1**
ROM	IX	27 06 43 12.0	43.1N	12.8E	9	2.1D		¶97ix4275
ISC		Poorly determined						
ISC	**IX**	**27 06 47 33.9**±.82	**43.15N**±.049	**12.64E**±.094	**8**±8.4		**17**	**0-7**
NEIC	IX	27 06 47 33.4	43.17N	12.68E	10			¶97ix4276
ROM	IX	27 06 47 33.8	43.2N	12.7E	5	2.4D		
LDG	IX	27 06 47 35.1	43.0N	12.8E		2.9L		
NEIC		Poor solution.						
ISC	**IX**	**27 06 51 04.5**±.64	**43.04N**±.042	**13.06E**±.091	**10**		**29**	**0-7**
NEIC	IX	27 06 51 03.4	43.02N	13.15E	10			¶97ix4277
ROM	IX	27 06 51 03.6	43.0N	12.9E	5	3.0D		
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**IX**	**27 06 58 54.5**±.97	**43.00N**±.058	**12.6E**±.14	**3**±14		**10**	**0-4**
ROM	IX	27 06 58 54.2	43.1N	12.8E	8	2.6D		¶97ix4278
ISC	**IX**	**27 07 04 19**±1.0	**42.96N**±.095	**13.0E**±.18	**5**		**5**	**0-1**
ROM	IX	27 07 04 18.8	43.0N	13.0E	5	2.2D		¶97ix4280
ISC	**IX**	**27 07 06 07.2**±.82	**43.09N**±.057	**12.8E**±.12	**16**±9.8		**16**	**0-7**
NEIC	IX	27 07 06 00.7	42.96N	13.31E	10			¶97ix4281
LDG	IX	27 07 06 05.4	42.9N	13.1E		3.0L		
ROM	IX	27 07 06 06.8	43.1N	12.8E	5	2.7D		
NEIC		Poor solution.						
ISC	**IX**	**27 07 20 13.6**±.90	**43.03N**±.062	**12.9E**±.13	**5**		**7**	**0-1**
ROM	IX	27 07 20 13.1	43.1N	12.9E	5	2.1D		¶97ix4286
ISC	**IX**	**27 07 24 48**±1.2	**42.98N**±.079	**12.9E**±.18	**2**±28		**5**	**0-1**
ROM	IX	27 07 24 47.7	43.0N	12.9E	10	2.0D		¶97ix4288
ISC		Poorly determined						
ISC	**IX**	**27 07 31 32**±1.5	**43.08N**±.071	**12.8E**±.17	**4**		**5**	**0-1**
ROM	IX	27 07 31 31.7	43.1N	12.9E	4	2.1D		¶97ix4290
ISC	**IX**	**27 07 50 33.2**±.90	**43.06N**±.035	**12.88E**±.052	**3**±7.7		**44**	**0-8**
ROM	IX	27 07 50 32.4	43.0N	13.0E	4	2.9D		¶97ix4294
NEIC	IX	27 07 50 33.9	43.06N	12.88E	10			
LDG	IX	27 07 50 34.8	42.9N	13.0E		3.4L		
ISC	**IX**	**27 07 54 35**±1.2	**42.93N**±.078	**12.9E**±.19	**5**±26		**5**	**0-1**
ROM	IX	27 07 54 35.5	42.9N	12.9E	10	2.6D		¶97ix4295
ISC		Poorly determined						
ISC	**IX**	**27 07 58 59**±1.4	**43.03N**±.067	**12.9E**±.10	**11**±10		**16**	**0-8**
NEIC	IX	27 07 58 53.1	42.86N	13.43E	10			¶97ix4296
LDG	IX	27 07 58 58.6	42.8N	13.2E		3.2L		
NEIC		Poor solution.						
ISC	**IX**	**27 08 08 07.5**±.71	**43.11N**±.020	**12.78E**±.022	**9**±5.3	**4.3b**	**192**	**0-128**
ROM	IX	27 08 08 06.9	43.1N	12.8E	7	4.3D		¶97ix4298
EIDC	IX	27 08 08 07.3	43.0N	13.0E	0	4.1b,4.4L		
BJI	IX	27 08 08 07.6	43.10N	12.70E	10	4.8b		
NEIC	IX	27 08 08 07.6	43.13N	12.77E	10	4.4b		
LDG	IX	27 08 08 10.0	43.1N	12.8E		4.3L		
PDG	IX	27 08 08 10.3	42.7N	12.9E	10	4.5L		
STR	IX	27 08 08 15.7	43.33N	12.15E	10	4.6L		
NEIC		$M_{L4.8}$(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ROM	**IX**	**27 08 33 21.2**	**43.0N**	**12.9E**	**10**	**2.0D**		¶97ix4301
ISC	**IX**	**27 08 33 46.5**±.91	**43.14N**±.048	**12.75E**±.095	**9**±7.9		**20**	**0-7**
LDG	IX	27 08 33 45.8	43.0N	13.0E		3.2L		¶97ix4302
ROM	IX	27 08 33 45.9	43.1N	12.8E	6	2.8D		
NEIC	IX	27 08 33 46.8	43.18N	12.72E	10			
NEIC		Less reliable solution.						
ISC	**IX**	**27 08 39 59.9**±.88	**43.10N**±.048	**12.78E**±.076	**12**±6.8		**24**	**0-7**
NEIC	IX	27 08 39 59.0	43.15N	12.86E	10			¶97ix4303
ROM	IX	27 08 39 59.4	43.1N	12.9E	10	3.0D		
LDG	IX	27 08 39 59.7	43.0N	13.0E		3.3L		
NEIC		Less reliable solution.						

ISC	**IX**	**27 08 46 40**±2.0	**43.02N**±.091	**12.9E**±.24	**10**		**4**	**0-1**	
ROM	IX	27 08 46 39.5	43.0N	12.9E	10	2.1D			¶97ix4306
ISC		Poorly determined							
ISC	**IX**	**27 08 50 29**±1.8	**43.05N**±.074	**12.9E**±.20	**6**		**5**	**0-1**	
ROM	IX	27 08 50 28.6	43.1N	12.9E	6	2.1D			¶97ix4308
ROM	**IX**	**27 09 23 56.5**	**43.1N**	**12.9E**	**10**	**1.9D**			¶97ix4314
ROM	**IX**	**27 09 38 25.7**	**43.0N**	**12.8E**	**5**	**2.0D**			¶97ix4316
ISC	**IX**	**27 09 58 10.1**±.89	**43.48N**±.068	**12.4E**±.11	**5**		**6**	**0-1**	
ROM	IX	27 09 58 09.2	43.5N	12.4E	5	2.2D			¶97ix4320
ROM	**IX**	**27 10 05 35.9**	**42.9N**	**12.9E**	**10**	**2.0D**			¶97ix4322
ISC	**IX**	**27 10 08 19**±1.1	**43.04N**±.052	**12.9E**±.12	**12**±8.5		**15**	**0-7**	
LDG	IX	27 10 08 17.2	42.9N	13.2E		3.1L			¶97ix4323
ROM	IX	27 10 08 18.0	43.0N	13.0E	5	2.7D			
ISC	**IX**	**27 10 13 56**±1.4	**43.12N**±.095	**12.4E**±.17	**10**		**4**	**0-1**	
ROM	IX	27 10 13 55.9	43.1N	12.4E	10	2.0D			¶97ix4326
ISC		Poorly determined							
ISC	**IX**	**27 10 21 49**±1.9	**43.07N**±.090	**12.9E**±.21	**4**±22		**5**	**0-1**	
ROM	IX	27 10 21 48.3	43.1N	12.9E	5	2.1D			¶97ix4331
ISC		Poorly determined							
ISC	**IX**	**27 10 29 15**±1.2	**42.97N**±.068	**12.9E**±.19	**10**±16		**6**	**0-1**	
ROM	IX	27 10 29 14.6	43.0N	12.9E	10	2.6D			¶97ix4332
ISC	**IX**	**27 10 40 09**±1.0	**43.05N**±.052	**12.86E**±.092	**12**±7.8		**17**	**0-7**	
NEIC	IX	27 10 40 05.5	43.07N	13.15E	10				¶97ix4333
LDG	IX	27 10 40 06.9	42.9N	13.3E		3.3L			
ROM	IX	27 10 40 07.4	43.1N	12.9E	3	3.0D			
NEIC	Poor solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**IX**	**27 10 46 48**±2.0	**43.01N**±.090	**12.9E**±.24	**10**		**4**	**0-1**	
ROM	IX	27 10 46 47.9	43.0N	12.9E	10	2.0D			¶97ix4336
ISC		Poorly determined							
ISC	**IX**	**27 10 49 55.0**±.76	**43.04N**±.042	**12.91E**±.082	**15**±9.5		**29**	**0-8**	
NEIC	IX	27 10 49 48.2	42.84N	13.44E	10				¶97ix4338
ROM	IX	27 10 49 53.5	43.1N	13.0E	3	3.1D			
NEIC	Poor solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ROM	**IX**	**27 11 09 49.6**	**43.1N**	**12.9E**	**10**	**1.9D**			¶97ix4339
ISC	**IX**	**27 11 16 28**±1.1	**43.06N**±.050	**12.86E**±.080	**14**±8.6		**24**	**0-8**	
LDG	IX	27 11 16 25.3	42.8N	13.3E		3.3L			¶97ix4340
ROM	IX	27 11 16 27.5	43.1N	12.9E	9	3.0D			
ROM	**IX**	**27 11 19 32.4**	**43.0N**	**12.9E**	**5**	**2.1D**			¶97ix4343
ISC	**IX**	**27 11 26 58.5**±.88	**43.11N**±.037	**12.81E**±.067	**11**±7.0		**32**	**0-8**	
ROM	IX	27 11 26 57.6	43.1N	12.9E	3	3.1D			¶97ix4345
LDG	IX	27 11 26 57.6	43.0N	13.1E		3.4L			
NEIC	IX	27 11 26 57.7	43.11N	12.85E	10				
NEIC	Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ROM	**IX**	**27 11 49 34.3**	**43.0N**	**12.9E**	**10**	**2.0D**			¶97ix4347
ISC	**IX**	**27 12 14 26**±2.2	**43.04N**±.092	**13.0E**±.25	**10**		**4**	**0-1**	
ROM	IX	27 12 14 25.5	43.0N	13.0E	10	2.2D			¶97ix4352
ISC		Poorly determined							
ISC	**IX**	**27 12 32 48**±1.2	**43.02N**±.056	**13.0E**±.15	**3**±16		**8**	**0-1**	
ROM	IX	27 12 32 48.1	43.0N	13.0E	5	2.7D			¶97ix4355
ISC	**IX**	**27 12 42 38**±3.9	**43.1N**±.12	**12.6E**±.58	**17**±18		**5**	**0-2**	
ROM	IX	27 12 42 38.8	43.1N	12.8E	10	2.2D			¶97ix4356
ISC		Poorly determined							
ROM	**IX**	**27 13 00 12.3**	**43.1N**	**12.8E**	**5**	**1.9D**			¶97ix4358
ISC	**IX**	**27 13 05 05.8**±.89	**42.99N**±.062	**12.8E**±.17	**8**		**6**	**0-2**	
ROM	IX	27 13 05 05.8	43.0N	12.8E	8	2.2D			¶97ix4359
ROM	**IX**	**27 13 17 25.4**	**43.1N**	**12.8E**	**10**	**1.9D**			¶97ix4361
ROM	**IX**	**27 13 21 38.5**	**43.0N**	**12.9E**	**10**	**2.0D**			¶97ix4362
ISC	**IX**	**27 13 23 47.4**±.77	**42.94N**±.024	**12.85E**±.027	**10**±6.3		**117**	**0-21**	
ROM	IX	27 13 23 46.1	42.9N	13.0E	5	3.9D			¶97ix4363
NEIC	IX	27 13 23 47.5	42.94N	12.82E	10				
LDG	IX	27 13 23 48.4	42.9N	13.0E		3.8L			
PDG	IX	27 13 23 54.2	42.5N	13.4E	10	3.6L			
STR	IX	27 13 24 01.8	43.52N	11.69E	10	3.9L			
NEIC	Felt I=V MCS in the epicentral area.								
ISC	**IX**	**27 13 35 05.1**±.89	**42.94N**±.043	**12.82E**±.061	**9**±7.1		**32**	**0-20**	
ROM	IX	27 13 35 04.6	42.9N	12.7E	14	3.4D			¶97ix4364
NEIC	IX	27 13 35 05.5	42.91N	12.78E	10	3.7b			
LDG	IX	27 13 35 05.9	42.8N	13.0E		3.5L			
NEIC	M_{L}3.7(VIE)								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**IX**	**27 13 39 24**±1.1	**43.09N**±.074	**12.8E**±.13	**5**		**6**	**0-1**	
ROM	IX	27 13 39 23.4	43.1N	12.8E	5	2.4D			¶97ix4366
ISC	**IX**	**27 14 04 24**±1.2	**43.08N**±.065	**12.9E**±.13	**1**±15		**7**	**0-2**	
ROM	IX	27 14 04 23.3	43.1N	12.9E	5	2.3D			¶97ix4370
ISC	**IX**	**27 14 08 45.0**±.95	**43.15N**±.053	**12.8E**±.13	**1**±21		**7**	**0-2**	
ROM	IX	27 14 08 44.6	43.2N	12.7E	5	2.4D			¶97ix4371
ISC	**IX**	**27 14 15 12**±1.0	**43.07N**±.059	**12.9E**±.14	**5**		**6**	**0-1**	
ROM	IX	27 14 15 11.6	43.1N	12.9E	5	2.2D			¶97ix4372
ISC	**IX**	**27 14 22 17**±1.2	**42.95N**±.077	**12.8E**±.20	**10**		**4**	**0-1**	
ROM	IX	27 14 22 16.9	42.9N	12.8E	10	2.1D			¶97ix4373
ISC		Poorly determined							
ISC	**IX**	**27 14 25 31**±1.1	**43.10N**±.072	**12.8E**±.14	**8**		**5**	**0-1**	
ROM	IX	27 14 25 30.3	43.1N	12.8E	8	2.2D			¶97ix4374
ISC	**IX**	**27 14 29 53**±1.3	**43.07N**±.083	**12.9E**±.18	**10**		**4**	**0-1**	
ROM	IX	27 14 29 53.0	43.1N	12.9E	10	2.1D			¶97ix4375
ISC		Poorly determined							
ROM	**IX**	**27 14 36 41.7**	**43.0N**	**12.8E**	**7**	**2.0D**			¶97ix4376
ISC	**IX**	**27 14 51 05**±1.2	**42.96N**±.070	**12.9E**±.17	**5**		**5**	**0-1**	
ROM	IX	27 14 51 04.4	43.0N	12.9E	5	2.1D			¶97ix4380
ISC	**IX**	**27 14 56 24.8**±.99	**42.96N**±.045	**12.9E**±.12	**11**±8.5		**17**	**0-7**	
ROM	IX	27 14 56 24.1	42.9N	13.0E	5	2.7D			¶97ix4381
LDG	IX	27 14 56 24.3	42.8N	13.1E		3.0L			
ROM	**IX**	**27 15 07 16.0**	**43.1N**	**12.9E**	**10**	**2.1D**			¶97ix4383
ROM	**IX**	**27 15 08 30.8**	**42.9N**	**12.9E**	**5**	**2.1D**			¶97ix4384
ROM	**IX**	**27 15 33 48.1**	**43.1N**	**12.9E**	**10**	**2.0D**			¶97ix4389
ISC	**IX**	**27 15 38 08**±1.0	**43.01N**±.059	**12.9E**±.14	**5**		**7**	**0-1**	
ROM	IX	27 15 38 07.4	43.0N	12.9E	5	2.4D			¶97ix4390
ROM	**IX**	**27 15 39 26.1**	**42.9N**	**12.9E**	**5**	**2.2D**			¶97ix4391
ISC	**IX**	**27 15 41 17**±3.2	**42.82N**±.087	**13.1E**±.36	**5**		**5**	**0-1**	
ROM	IX	27 15 41 16.7	42.8N	13.0E	5	2.3D			¶97ix4392
ISC	**IX**	**27 15 44 38.0**±.92	**43.03N**±.056	**12.8E**±.12	**16**±10		**14**	**0-7**	
ROM	IX	27 15 44 37.6	43.0N	12.8E	10	2.5D			¶97ix4394
ROM	**IX**	**27 15 51 07.2**	**43.0N**	**12.9E**	**7**	**2.1D**			¶97ix4396
ISC	**IX**	**27 16 08 32**±2.1	**43.03N**±.091	**13.0E**±.24	**10**		**4**	**0-1**	
ROM	IX	27 16 08 31.7	43.0N	12.9E	10	2.0D			¶97ix4403
ISC		Poorly determined							
ISC	**IX**	**27 16 13 57**±1.7	**43.08N**±.083	**12.8E**±.20	**7**		**4**	**0-1**	
ROM	IX	27 16 13 56.4	43.1N	12.8E	7	2.0D			¶97ix4405
ISC		Poorly determined							
ISC	**IX**	**27 16 39 58.6**±.89	**42.92N**±.059	**12.9E**±.14	**5**		**7**	**0-1**	
ROM	IX	27 16 39 57.9	42.9N	12.9E	5	2.7D			¶97ix4409
ISC	**IX**	**27 16 43 03.2**±.80	**42.97N**±.036	**12.86E**±.058	**1**±7.3		**26**	**0-7**	
ROM	IX	27 16 43 02.7	43.0N	12.9E	5	3.0D			¶97ix4410
NEIC	IX	27 16 43 04.6	43.03N	12.84E	10				
LDG	IX	27 16 43 05.3	42.9N	13.0E		3.3L			
ISC	**IX**	**27 16 55 50.0**±.79	**43.04N**±.054	**12.8E**±.11	**19**±9.1		**21**	**0-7**	
NEIC	IX	27 16 55 43.6	42.92N	13.28E	10				¶97ix4415
ROM	IX	27 16 55 49.0	43.1N	12.8E	8	2.9D			
LDG	IX	27 16 55 49.1	42.9N	13.0E		3.3L			
NEIC	Poor solution.								
ISC	**IX**	**27 16 58 19**±1.1	**43.01N**±.056	**12.8E**±.11	**14**±8.2		**14**	**0-7**	
ROM	IX	27 16 58 17.7	43.1N	12.9E	5	2.8D			¶97ix4416
LDG	IX	27 16 58 23.6	43.0N	12.4E		3.0L			
NEIC	IX	27 16 58 24.0	43.23N	12.17E	10				
NEIC	Poor solution.								
ISC	**IX**	**27 17 13 03.3**±.79	**43.02N**±.023	**12.82E**±.026	**12**±6.2	**4.1b**	**138**	**0-71**	
ROM	IX	27 17 13 02.1	43.0N	12.9E	5	4.0D			¶97ix4417
NEIC	IX	27 17 13 02.8	43.02N	12.83E	10	4.5b			
LDG	IX	27 17 13 04.1	42.9N	12.9E		3.8L			
STR	IX	27 17 13 05.1	42.99N	12.74E	10	4.3L			
EIDC	IX	27 17 13 08.5	43.4N	13.3E	0	4.0L,3.7b			
PDG	IX	27 17 13 10.3	42.7N	13.4E	10	3.8L			
NEIC	ML 4.3 (VIE). Felt I=V MCS in the epicentral area.								
ISC	**IX**	**27 17 17 31.0**±.94	**43.02N**±.059	**12.9E**±.13	**5**		**7**	**0-1**	
ROM	IX	27 17 17 30.3	43.0N	12.9E	5	2.2D			¶97ix4419
ROM	**IX**	**27 17 30 40.1**	**43.0N**	**12.8E**	**10**	**1.9D**			¶97ix4421
ISC	**IX**	**27 17 47 02**±1.6	**43.07N**±.083	**12.8E**±.19	**4**		**4**	**0-1**	
ROM	IX	27 17 47 02.6	43.1N	12.8E	4	2.3D			¶97ix4423
ISC		Poorly determined							
ISC	**IX**	**27 17 51 15.0**±.81	**43.08N**±.064	**12.8E**±.11	**22**±9.3		**13**	**0-7**	
ROM	IX	27 17 51 14.6	43.1N	13.0E	10	2.4D			¶97ix4424
LDG	IX	27 17 51 14.6	42.9N	12.9E		2.9L			
NEIC	IX	27 17 51 18.0	43.13N	12.38E	10				
NEIC	Poor solution.								
ISC	**IX**	**27 18 10 41.2**±.86	**43.08N**±.049	**12.74E**±.082	**8**±7.0		**21**	**0-8**	
ROM	IX	27 18 10 39.8	43.1N	12.9E	6	2.9D			¶97ix4426
LDG	IX	27 18 10 42.0	43.0N	12.9E		3.0L			
ROM	**IX**	**27 18 17 48.1**	**43.0N**	**13.0E**	**10**	**2.0D**			¶97ix4427
ISC	**IX**	**27 18 43 04**±2.2	**43.01N**±.092	**13.0E**±.25	**11**		**4**	**0-1**	
ROM	IX	27 18 43 04.7	43.0N	12.9E	11	2.1D			¶97ix4434
ISC		Poorly determined							
ISC	**IX**	**27 18 45 53.8**±.64	**43.13N**±.048	**12.73E**±.081	**17**±8.0		**23**	**0-7**	
LDG	IX	27 18 45 52.3	43.0N	13.0E		2.9L			¶97ix4435
ROM	IX	27 18 45 53.1	43.1N	12.8E	10	2.7D			
ISC	**IX**	**27 19 12 14**±2.1	**42.97N**±.075	**13.0E**±.24	**5**		**5**	**0-1**	
ROM	IX	27 19 12 13.6	43.0N	13.0E	5	2.0D			¶97ix4437
ISC	**IX**	**27 19 32 59**±1.2	**43.11N**±.069	**12.8E**±.15	**8**±12		**6**	**0-1**	
ROM	IX	27 19 32 58.8	43.1N	12.8E	8	2.3D			¶97ix4438
ISC	**IX**	**27 19 45 16**±1.1	**43.00N**±.069	**12.9E**±.15	**5**		**5**	**0-1**	
ROM	IX	27 19 45 15.7	43.0N	12.9E	5	2.1D			¶97ix4439
ISC	**IX**	**27 19 47 27.4**±.90	**43.16N**±.052	**12.8E**±.10	**12**±7.6		**17**	**0-7**	
ROM	IX	27 19 47 27.0	43.1N	12.8E	7	2.4D			¶97ix4440
LDG	IX	27 19 47 29.5	43.2N	12.8E		2.9L			
ISC	**IX**	**27 19 56 43.2**±.68	**43.06N**±.021	**12.77E**±.023	**11**±5.2	**3.9b,3.7s**	**172**	**0-128**	
LDG	IX	27 19 56 40.8	42.9N	13.2E		3.9L			¶97ix4442
ROM	IX	27 19 56 41.7	43.0N	12.9E	5	4.0D			
NEIC	IX	27 19 56 42.9	43.06N	12.77E	10	4.5b			
STR	IX	27 19 56 47.7	43.23N	12.54E	10	4.3L			
EIDC	IX	27 19 56 49.7	43.2N	13.0E	34	4.0L,3.8s			
PDG	IX	27 19 56 51.4	43.0N	13.5E	11	3.9L			
NEIC	ML 4.3 (VIE), 4.2 (FUR). Felt I=V MCS in the epicentral area.								
ISC	**IX**	**27 20 05 52**±1.0	**42.99N**±.057	**13.0E**±.15	**5**		**6**	**0-1**	
ROM	IX	27 20 05 51.4	43.0N	13.0E	5	2.3D			¶97ix4445
ISC	**IX**	**27 20 07 20**±1.0	**43.02N**±.060	**12.9E**±.14	**5**		**6**	**0-1**	
ROM	IX	27 20 07 19.1	43.1N	12.9E	5	2.5D			¶97ix4446
ISC	**IX**	**27 20 16 27.0**±.57	**42.97N**±.044	**12.67E**±.072	**10**		**22**	**0-7**	
LDG	IX	27 20 16 25.6	42.9N	13.1E		2.9L			¶97ix4448
ROM	IX	27 20 16 26.7	43.0N	12.7E	10	2.6D			
ISC	**IX**	**27 20 19 33.5**±.78	**43.04N**±.040	**12.72E**±.074	**11**±6.5		**32**	**0-7**	
ROM	IX	27 20 19 31.9	43.0N	12.9E	4	2.6D			¶97ix4449
LDG	IX	27 20 19 32.3	42.9N	13.0E		3.0L			
NEIC	IX	27 20 19 33.2	43.04N	12.71E	10				
ISC	**IX**	**27 20 27 34.2**±.96	**43.13N**±.058	**12.8E**±.13	**5**		**6**	**0-1**	
ROM	IX	27 20 27 33.5	43.1N	12.8E	5	2.1D			¶97ix4450
ROM	**IX**	**27 20 44 39.6**	**43.1N**	**12.8E**	**4**	**1.9D**			¶97ix4454
ISC	**IX**	**27 21 35 11**±1.2	**43.03N**±.073	**12.9E**±.15	**6**±18		**6**	**0-1**	
ROM	IX	27 21 35 10.7	43.0N	12.9E	5	2.2D			¶97ix4458
ISC	**IX**	**27 21 47 54**±2.5	**42.97N**±.093	**13.0E**±.28	**10**		**4**	**0-1**	
ROM	IX	27 21 47 53.7	43.0N	13.0E	10	1.9D			¶97ix4463
ISC		Poorly determined							
ISC	**IX**	**27 22 03 45**±1.2	**42.92N**±.087	**12.6E**±.24	**5**		**4**	**0-1**	
ROM	IX	27 22 03 44.1	42.9N	12.6E	5	2.0D			¶97ix4466
ISC		Poorly determined							
ISC	**IX**	**27 22 14 57**±1.1	**43.04N**±.064	**12.9E**±.14	**5**		**6**	**0-1**	
ROM	IX	27 22 14 56.1	43.1N	12.9E	5	2.0D			¶97ix4467
ISC	**IX**	**27 22 20 21**±1.3	**43.03N**±.079	**12.9E**±.16	**3**±28		**5**	**0-1**	
ROM	IX	27 22 20 20.7	43.0N	12.9E	3	2.3D			¶97ix4468
ISC		Poorly determined							
ISC	**IX**	**27 22 23 48.6**±.94	**43.15N**±.060	**12.8E**±.14	**5**		**6**	**0-2**	
ROM	IX	27 22 23 48.0	43.2N	12.8E	5	2.2D			¶97ix4469
ISC	**IX**	**27 22 30 41**±1.4	**43.02N**±.079	**12.9E**±.19	**6**±19		**5**	**0-1**	
ROM	IX	27 22 30 41.1	43.0N	12.9E	8	2.1D			¶97ix4471
ISC		Poorly determined							
ISC	**IX**	**27 22 34 28.5**±.97	**43.04N**±.052	**12.90E**±.083	**11**±7.9		**18**	**0-7**	
LDG	IX	27 22 34 27.3	42.9N	13.2E		2.8L			¶97ix4472
ROM	IX	27 22 34 28.0	43.1N	12.9E	5	2.7D			
ISC	**IX**	**27 22 57 04**±1.6	**42.82N**±.089	**13.1E**±.23	**5**		**4**	**1-1**	
ROM	IX	27 22 57 02.6	42.8N	13.1E	5	2.3D			¶97ix4474
ISC		Poorly determined							
ISC	**IX**	**27 23 10 34**±1.1	**43.04N**±.055	**12.9E**±.14	**6**±15		**8**	**0-1**	
ROM	IX	27 23 10 33.4	43.1N	12.9E	3	2.4D			¶97ix4475
ISC	**IX**	**27 23 19 33**±1.4	**43.04N**±.077	**13.0E**±.17	**5**		**4**	**0-1**	
ROM	IX	27 23 19 31.6	43.0N	13.0E	5	2.1D			¶97ix4476
ISC		Poorly determined							
ISC	**IX**	**27 23 22 03**±1.1	**42.96N**±.065	**12.9E**±.17	**5**		**5**	**0-1**	
ROM	IX	27 23 22 02.5	43.0N	12.9E	5	2.2D			¶97ix4477
ISC	**IX**	**27 23 29 22**±1.7	**42.99N**±.069	**12.9E**±.20	**5**		**6**	**0-1**	
ROM	IX	27 23 29 21.6	43.0N	12.9E	5	2.2D			¶97ix4480

Agency		Origin Time			φ	λ	h	Mag	n	Δ-Rng
		mo	d	h m s	°	°	km			°
ISC	**IX**	**27**	**23**	**36 31.9**±.48	**42.97N**±.036	**12.85E**±.070	**6**		**29**	**0-7**
ROM	IX	27	23	36 30.5	43.0N	13.0E	6	2.6D		¶97ix4483
NEIC	IX	27	23	36 32.6	42.96N	12.83E	10			
LDG	IX	27	23	36 34.8	42.9N	12.9E		3.0L		
NEIC	Felt I=V MCS in the epicentral area.									
ISC	**IX**	**27**	**23**	**37 34**±1.1	**43.12N**±.065	**12.8E**±.13	**5**		**5**	**0-1**
ROM	IX	27	23	37 32.9	43.1N	12.8E	5	2.1D		¶97ix4484
ROM	**IX**	**27**	**23**	**38 25.9**	**43.1N**	**12.9E**	**10**	**2.2D**		¶97ix4485
ROM	**IX**	**27**	**23**	**39 05.0**	**43.0N**	**12.9E**	**10**	**1.7D**		¶97ix4486
ISC	**IX**	**27**	**23**	**57 33**±1.6	**43.11N**±.089	**12.8E**±.21	**10**		**4**	**0-1**
ROM	IX	27	23	57 32.9	43.1N	12.8E	10	1.9D		¶97ix4487
ISC	Poorly determined									
ROM	**IX**	**28**	**00**	**12 16.8**	**43.1N**	**13.0E**	**5**	**1.8D**		¶97ix4489
ISC	**IX**	**28**	**00**	**12 27**±1.9	**42.97N**±.081	**12.9E**±.24	**5**		**4**	**0-1**
ROM	IX	28	00	12 26.3	43.0N	12.9E	5	1.9D		¶97ix4490
ISC	Poorly determined									
ROM	**IX**	**28**	**00**	**22 44.9**	**43.0N**	**12.9E**	**5**	**1.9D**		¶97ix4492
ROM	**IX**	**28**	**00**	**28 48.2**	**43.0N**	**12.3E**	**5**	**2.0D**		¶97ix4493
ISC	**IX**	**28**	**00**	**31 59**±1.1	**43.05N**±.061	**12.8E**±.13	**1**±15		**7**	**0-2**
ROM	IX	28	00	31 58.7	43.1N	12.8E	5	2.4D		¶97ix4494
ISC	**IX**	**28**	**00**	**40 17**±5.0	**43.2N**±.15	**12.4E**±.48	**10**		**4**	**0-1**
ROM	IX	28	00	40 18.9	43.2N	12.6E	10	2.3D		¶97ix4495
ISC	Poorly determined									
ROM	**IX**	**28**	**00**	**44 39.3**	**43.0N**	**12.9E**	**4**	**1.9D**		¶97ix4496
ISC	**IX**	**28**	**00**	**54 05.9**±.84	**43.11N**±.034	**12.80E**±.054	**11**±6.7		**43**	**0-8**
ROM	IX	28	00	54 05.2	43.1N	12.9E	6	2.8D		¶97ix4498
LDG	IX	28	00	54 05.2	43.0N	13.1E		2.9L		
NEIC	IX	28	00	54 05.8	43.11N	12.77E	10			
ISC	**IX**	**28**	**01**	**02 34.7**±.74	**43.00N**±.054	**12.82E**±.097	**23**±8.1		**24**	**0-7**
NEIC	IX	28	01	02 32.2	43.05N	12.94E	10			¶97ix4501
LDG	IX	28	01	02 33.6	42.9N	13.1E		2.7L		
ROM	IX	28	01	02 33.9	43.0N	13.0E	9	2.6D		
NEIC	Poor solution.									
ISC	**IX**	**28**	**01**	**15 48**±1.7	**43.03N**±.086	**12.8E**±.21	**2**±20		**5**	**0-1**
ROM	IX	28	01	15 46.8	43.0N	12.9E	5	1.9D		¶97ix4504
ISC	Poorly determined									
ISC	**IX**	**28**	**01**	**28 15**±1.9	**43.09N**±.082	**12.9E**±.22	**6**		**4**	**0-1**
ROM	IX	28	01	28 15.5	43.1N	12.8E	6	2.1D		¶97ix4506
ISC	Poorly determined									
ISC	**IX**	**28**	**01**	**35 58**±1.0	**43.03N**±.059	**12.9E**±.14	**5**		**7**	**0-47**
ROM	IX	28	01	35 57.8	43.0N	12.9E	5	2.3D		¶97ix4507
ISC	**IX**	**28**	**01**	**46 47.6**±.83	**43.00N**±.036	**12.81E**±.060	**11**±7.0		**30**	**0-7**
ROM	IX	28	01	46 46.6	43.0N	12.9E	5	2.8D		¶97ix4509
NEIC	IX	28	01	46 48.6	43.08N	12.71E	10			
LDG	IX	28	01	46 49.1	42.9N	12.9E		2.6L		
NEIC	Less reliable solution.									
ISC	**IX**	**28**	**01**	**58 11**±6.4	**43.2N**±.20	**12.0E**±.55	**8**		**4**	**1-1**
ROM	IX	28	01	58 14.0	43.1N	12.3E	8	2.1D		¶97ix4510
ISC	Poorly determined									
ISC	**IX**	**28**	**02**	**03 21.0**±.81	**43.16N**±.041	**12.68E**±.073	**10**±7.5		**31**	**0-8**
ROM	IX	28	02	03 20.7	43.2N	12.8E	5	2.9D		¶97ix4511
LDG	IX	28	02	03 20.7	43.0N	12.9E		2.8L		
NEIC	IX	28	02	03 28.2	43.42N	11.99E	10			
NEIC	Less reliable solution.									
NEIC	Felt I=IV MCS in the epicentral area.									
ROM	**IX**	**28**	**02**	**15 06.8**	**43.1N**	**12.9E**	**6**	**2.0D**		¶97ix4513
ISC	**IX**	**28**	**02**	**18 34.1**±.72	**43.04N**±.048	**12.9E**±.10	**18**±8.2		**24**	**0-7**
NEIC	IX	28	02	18 31.0	43.05N	13.06E	10			¶97ix4514
LDG	IX	28	02	18 31.8	42.9N	13.2E		3.0L		
ROM	IX	28	02	18 32.7	43.0N	12.9E	3	3.0D		
NEIC	Poor solution.									
NEIC	Felt I=IV MCS in the epicentral area.									
ISC	**IX**	**28**	**02**	**39 40**±1.1	**43.04N**±.071	**12.8E**±.15	**5**		**5**	**0-2**
ROM	IX	28	02	39 39.0	43.1N	12.8E	5	2.2D		¶97ix4516
ISC	**IX**	**28**	**02**	**47 48.2**±.84	**43.12N**±.035	**12.77E**±.057	**11**±6.6		**41**	**0-8**
NEIC	IX	28	02	47 47.0	43.02N	12.81E	10			¶97ix4517
ROM	IX	28	02	47 47.4	43.1N	12.8E	4	3.2D		
LDG	IX	28	02	47 48.8	43.0N	12.9E		3.1L		
NEIC	M_L3.7(VIE), Less reliable solution.									
NEIC	Felt I=V MCS in the epicentral area.									
ISC	**IX**	**28**	**03**	**01 00.9**±.97	**42.92N**±.061	**12.9E**±.15	**5**		**7**	**0-1**
ROM	IX	28	03	01 00.1	42.9N	12.9E	5	2.8D		¶97ix4521
ISC	**IX**	**28**	**03**	**03 22**±1.8	**43.07N**±.090	**12.9E**±.22	**4**±22		**5**	**0-1**
ROM	IX	28	03	03 21.4	43.1N	12.9E	3	2.4D		¶97ix4523
ISC	Poorly determined									
ISC	**IX**	**28**	**03**	**12 00**±1.0	**42.98N**±.060	**13.0E**±.15	**5**		**7**	**0-1**
ROM	IX	28	03	12 00.3	43.0N	13.0E	5	2.6D		¶97ix4525
ISC	**IX**	**28**	**03**	**24 23**±1.1	**42.95N**±.066	**13.0E**±.16	**5**		**6**	**0-1**
ROM	IX	28	03	24 22.4	43.0N	13.0E	5	2.8D		¶97ix4528
ISC	**IX**	**28**	**03**	**30 12.8**±.90	**42.90N**±.081	**12.8E**±.20	**5**		**6**	**0-1**
ROM	IX	28	03	30 12.3	42.9N	12.8E	5	2.4D		¶97ix4529
ISC	**IX**	**28**	**03**	**32 19.9**±.90	**42.92N**±.083	**12.8E**±.21	**5**		**6**	**0-1**
ROM	IX	28	03	32 19.4	42.9N	12.8E	5	2.7D		¶97ix4530
ROM	**IX**	**28**	**03**	**36 19.2**	**43.0N**	**12.9E**	**5**	**2.4D**		¶97ix4531
ISC	**IX**	**28**	**03**	**51 33.1**±.74	**43.06N**±.024	**12.77E**±.032	**12**±5.7	3.6b	**124**	**0-71**
ROM	IX	28	03	51 32.2	43.1N	12.9E	9	3.7D		¶97ix4532
NEIC	IX	28	03	51 33.1	43.08N	12.74E	10			
LDG	IX	28	03	51 33.2	43.0N	12.9E		3.7L		
STR	IX	28	03	51 35.1	43.06N	12.72E	10	4.2L		
EIDC	IX	28	03	51 38.2	43.7N	12.2E	0	3.7L,3.7b		
NEIC	$M_{L4.2}$(VIE)									
NEIC	Felt I=V MCS in the epicentral area.									
ISC	**IX**	**28**	**03**	**56 30**±1.2	**43.07N**±.085	**12.7E**±.26	**9**±11		**5**	**0-1**
ROM	IX	28	03	56 30.1	43.1N	12.7E	8	2.4D		¶97ix4533
ISC	Poorly determined									
ISC	**IX**	**28**	**04**	**02 51**±1.1	**43.08N**±.068	**12.8E**±.14	**5**		**5**	**0-1**
ROM	IX	28	04	02 50.4	43.1N	12.8E	5	2.4D		¶97ix4534
ISC	**IX**	**28**	**04**	**19 20**±1.3	**43.11N**±.080	**12.9E**±.17	**5**		**4**	**0-1**
ROM	IX	28	04	19 20.2	43.1N	12.9E	5	2.4D		¶97ix4536
ISC	Poorly determined									
ROM	**IX**	**28**	**04**	**24 07.1**	**43.1N**	**12.6E**	**5**	**2.5D**		¶97ix4537
ISC	**IX**	**28**	**04**	**26 45.6**±.90	**43.05N**±.063	**12.8E**±.12	**17**±11		**17**	**0-7**
LDG	IX	28	04	26 44.4	42.9N	13.1E		2.7L		¶97ix4539
ROM	IX	28	04	26 45.3	43.0N	12.9E	5	2.7D		
NEIC	IX	28	04	26 46.9	43.15N	12.65E	10			
NEIC	Poor solution.									
ISC	**IX**	**28**	**04**	**43 39.5**±.62	**43.02N**±.038	**12.80E**±.055	**18**±7.0		**35**	**0-8**
NEIC	IX	28	04	43 38.0	42.99N	12.82E	10			¶97ix4540
ROM	IX	28	04	43 38.8	43.0N	12.9E	8	3.1D		
LDG	IX	28	04	43 39.7	43.0N	13.0E		3.1L		
NEIC	Felt I=IV MCS in the epicentral area.									
ISC	**IX**	**28**	**04**	**45 28.2**±.90	**43.00N**±.060	**12.8E**±.14	**5**		**7**	**0-1**
ROM	IX	28	04	45 28.0	43.0N	12.8E	5	2.7D		¶97ix4541
ISC	**IX**	**28**	**04**	**55 24**±1.0	**42.97N**±.050	**12.9E**±.13	**1**±12		**10**	**0-1**
ROM	IX	28	04	55 23.4	43.0N	12.9E	5	3.2D		¶97ix4544
ISC	**IX**	**28**	**05**	**09 43**±1.1	**43.02N**±.037	**12.91E**±.062	**15**±8.8		**30**	**0-7**
LDG	IX	28	05	09 40.9	42.8N	13.2E		3.1L		¶97ix4546
ROM	IX	28	05	09 41.5	43.0N	13.0E	5	3.1D		
NEIC	IX	28	05	09 42.1	43.11N	12.92E	10			
NEIC	Felt I=IV MCS in the epicentral area.									
ISC	**IX**	**28**	**05**	**17 32**±1.3	**43.00N**±.083	**12.9E**±.19	**10**		**4**	**0-1**
ROM	IX	28	05	17 32.3	43.0N	12.9E	10	2.1D		¶97ix4547
ISC	Poorly determined									
ISC	**IX**	**28**	**05**	**25 53**±2.1	**43.01N**±.084	**12.9E**±.23	**5**		**4**	**0-1**
ROM	IX	28	05	25 52.5	43.0N	12.9E	5	2.3D		¶97ix4551
ISC	Poorly determined									
ROM	**IX**	**28**	**05**	**52 38.7**	**43.0N**	**12.9E**	**10**	**2.2D**		¶97ix4557
ISC	**IX**	**28**	**06**	**28 59**±1.3	**43.09N**±.086	**12.8E**±.17	**10**±16		**5**	**0-1**
ROM	IX	28	06	28 58.7	43.1N	12.8E	9	2.4D		¶97ix4564
ISC	Poorly determined									
ISC	**IX**	**28**	**06**	**59 50**±1.3	**42.99N**±.062	**13.0E**±.13	**10**±9.5		**21**	**0-7**
ROM	IX	28	06	59 50.2	43.0N	12.9E	10	3.0D		¶97ix4568
LDG	IX	28	06	59 53.2	42.9N	13.0E		2.9L		
NEIC	IX	28	07	00 02.7	43.49N	11.91E	10			
NEIC	Less reliable solution.									
ISC	**IX**	**28**	**07**	**14 05.3**±.92	**42.97N**±.060	**12.8E**±.15	**6**		**7**	**0-1**
ROM	IX	28	07	14 04.9	43.0N	12.9E	6	3.0D		¶97ix4572
ROM	**IX**	**28**	**07**	**15 37.6**	**43.1N**	**12.8E**	**5**	**2.1D**		¶97ix4574
ISC	**IX**	**28**	**07**	**33 33.9**±.94	**43.11N**±.055	**12.8E**±.12	**2**±16		**9**	**0-6**
ROM	IX	28	07	33 33.7	43.1N	12.8E	6	3.0D		¶97ix4577
ISC	**IX**	**28**	**07**	**44 23**±1.6	**43.08N**±.073	**12.9E**±.19	**5**		**5**	**0-1**
ROM	IX	28	07	44 23.0	43.1N	12.9E	5	2.4D		¶97ix4580
ISC	**IX**	**28**	**07**	**56 07.6**±.72	**43.07N**±.046	**12.86E**±.092	**18**±8.2		**22**	**0-7**
ROM	IX	28	07	56 06.8	43.1N	12.9E	6	3.1D		¶97ix4582
LDG	IX	28	07	56 07.1	42.9N	13.1E		2.8L		
NEIC	IX	28	07	56 07.5	43.17N	12.80E	10			
NEIC	Less reliable solution.									
NEIC	Felt I=IV MCS in the epicentral area.									
ISC	**IX**	**28**	**08**	**01 52.8**±.80	**42.90N**±.038	**12.87E**±.082	**8**±7.7		**27**	**0-7**
ROM	IX	28	08	01 52.2	42.9N	12.9E	5	3.0D		¶97ix4585
NEIC	IX	28	08	01 54.1	43.02N	12.77E	10			
LDG	IX	28	08	01 58.4	42.9N	12.6E		2.8L		
NEIC	Less reliable solution.									
NEIC	Felt I=IV MCS in the epicentral area.									
ROM	**IX**	**28**	**08**	**27 11.3**	**43.1N**	**12.9E**	**5**	**2.1D**		¶97ix4593
ROM	**IX**	**28**	**08**	**30 33.5**	**43.1N**	**12.9E**	**5**	**2.1D**		¶97ix4594
ISC	**IX**	**28**	**08**	**37 07**±1.7	**43.05N**±.083	**12.8E**±.20	**5**		**4**	**0-1**
ROM	IX	28	08	37 06.4	43.0N	12.9E	5	2.3D		¶97ix4595
ISC	Poorly determined									
ROM	**IX**	**28**	**08**	**42 55.8**	**43.1N**	**12.8E**	**8**	**2.1D**		¶97ix4597
ISC	**IX**	**28**	**09**	**09 58**±1.0	**43.00N**±.062	**12.9E**±.15	**6**		**6**	**0-1**
ROM	IX	28	09	09 57.8	43.0N	12.9E	6	2.6D		¶97ix4601
ISC	**IX**	**28**	**09**	**19 19.2**±.94	**43.05N**±.058	**12.8E**±.13	**5**		**7**	**0-1**
ROM	IX	28	09	19 18.5	43.1N	12.8E	5	2.7D		¶97ix4604
ROM	**IX**	**28**	**09**	**35 16.1**	**43.0N**	**12.9E**	**10**	**2.3D**		¶97ix4606
ISC	**IX**	**28**	**09**	**37 55**±1.2	**43.01N**±.068	**13.0E**±.12	**2**±17		**8**	**0-3**
ROM	IX	28	09	37 54.4	43.0N	12.9E	5	3.0D		¶97ix4607
ISC	**IX**	**28**	**09**	**43 38**±1.8	**43.02N**±.081	**12.9E**±.22	**5**		**4**	**0-1**
ROM	IX	28	09	43 37.3	43.0N	12.9E	5	2.3D		¶97ix4608
ISC	Poorly determined									
ISC	**IX**	**28**	**09**	**50 42**±1.3	**43.00N**±.079	**12.9E**±.17	**2**±29		**5**	**0-1**
ROM	IX	28	09	50 41.5	43.0N	12.8E	13	2.4D		¶97ix4610
ISC	Poorly determined									
ISC	**IX**	**28**	**10**	**11 17**±1.8	**43.10N**±.083	**12.9E**±.21	**5**		**4**	**0-1**
ROM	IX	28	10	11 15.8	43.1N	12.9E	5	2.3D		¶97ix4612
ISC	Poorly determined									
ISC	**IX**	**28**	**10**	**18 45**±1.0	**43.00N**±.065	**12.9E**±.14	**5**		**6**	**0-1**
ROM	IX	28	10	18 44.7	43.0N	12.9E	5	2.5D		¶97ix4613
ISC	**IX**	**28**	**10**	**36 13.7**±.79	**43.09N**±.053	**12.8E**±.11	**5**		**8**	**0-2**
ROM	IX	28	10	36 13.1	43.1N	12.8E	5	2.7D		¶97ix4617
ISC	**IX**	**28**	**10**	**42 08**±1.7	**43.08N**±.083	**12.8E**±.19	**5**		**4**	**0-1**
ROM	IX	28	10	42 07.7	43.1N	12.8E	5	2.3D		¶97ix4618
ISC	Poorly determined									
ISC	**IX**	**28**	**10**	**45 04**±1.5	**43.15N**±.077	**12.8E**±.19	**5**		**4**	**0-1**
ROM	IX	28	10	45 02.8	43.1N	12.8E	5	2.2D		¶97ix4619
ISC	Poorly determined									
ROM	**IX**	**28**	**10**	**53 06.9**	**43.1N**	**12.9E**	**5**	**2.0D**		¶97ix4622
ISC	**IX**	**28**	**11**	**03 42.3**±.60	**43.10N**±.039	**12.73E**±.070	**17**±7.2		**29**	**0-7**
ROM	IX	28	11	03 41.0	43.1N	12.9E	4	3.3D		¶97ix4624
LDG	IX	28	11	03 41.3	43.0N	13.0E		2.9L		
NEIC	IX	28	11	03 45.0	43.35N	12.43E	10			
NEIC	Less reliable solution.									
ISC	**IX**	**28**	**11**	**10 15**±3.2	**43.1N**±.21	**12.8E**±.17	**5**		**6**	**0-3**
ROM	IX	28	11	10 14.2	43.1N	12.9E	5	2.5D		¶97ix4625
ROM	**IX**	**28**	**11**	**23 02.6**	**43.0N**	**12.9E**	**10**	**2.3D**		¶97ix4627
ISC	**IX**	**28**	**11**	**24 31.3**±.82	**42.96N**±.026	**12.81E**±.033	**8**±6.5	3.7b	**108**	**0-71**
ROM	IX	28	11	24 30.4	43.0N	12.9E	5	3.7D		¶97ix4629
STR	IX	28	11	24 31.3	42.93N	13.05E	10	4.2L		
LDG	IX	28	11	24 31.5	42.9N	13.0E		3.6L		
NEIC	IX	28	11	24 31.6	42.97N	12.79E	10			
EIDC	IX	28	11	24 33.0	43.0N	13.3E	0	3.9L,3.3s		
NEIC	$M_{L4.2}$(VIE)									
NEIC	Felt I=VI MCS in the epicentral area.									
ISC	**IX**	**28**	**11**	**45 03.9**±.91	**42.92N**±.058	**12.9E**±.12	**4**±17		**8**	**0-3**
ROM	IX	28	11	45 03.5	42.9N	12.9E	7	2.5D		¶97ix4634
ISC	**IX**	**28**	**11**	**45 40**±1.8	**43.04N**±.083	**12.9E**±.21	**4**		**4**	**0-1**
ROM	IX	28	11	45 39.6	43.0N	12.9E	4	2.4D		¶97ix4636
ISC	Poorly determined									
ISC	**IX**	**28**	**11**	**46 46.4**±.80	**43.08N**±.052	**12.9E**±.10	**20**±8.6		**23**	**0-8**
LDG	IX	28	11	46 44.2	42.9N	13.2E		2.9L		¶97ix4637
ROM	IX	28	11	46 45.5	43.1N	12.9E	6	3.1D		
NEIC	IX	28	11	46 49.3	43.29N	12.54E	10			
NEIC	Less reliable solution.									
ISC	**IX**	**28**	**11**	**51 57**±1.9	**43.06N**±.077	**13.0E**±.19	**10**±13		**7**	**0-6**
ROM	IX	28	11	51 57.0	43.1N	12.9E	9	2.8D		¶97ix4639
ROM	**IX**	**28**	**11**	**59 08.3**	**43.1N**	**13.0E**	**10**	**2.5D**		¶97ix4641
ISC	**IX**	**28**	**12**	**13 32.6**±.68	**43.02N**±.044	**12.9E**±.11	**5**		**11**	**0-6**
ROM	IX	28	12	13 32.1	43.0N	12.9E	5	3.0D		¶97ix4646

ROM	**IX**	**28 12 32 43.8**	**43.2N**	**12.7E**	**5**	**1.9D**	**¶97ix4647**
ISC	**IX**	**28 12 33 54**±1.8	**43.08N**±.078	**12.9E**±.20	**11**±12		**6 0-1**
ROM	IX	28 12 33 53.6	43.1N	12.9E	7	2.5D	**¶97ix4648**
ROM	**IX**	**28 12 46 24.8**	**43.0N**	**12.9E**	**5**	**2.3D**	**¶97ix4651**
ISC	**IX**	**28 12 48 54**±2.8	**43.15N**±.091	**13.0E**±.28	**5**±20		**5 0-1**
ROM	IX	28 12 48 54.0	43.1N	13.0E	5	2.4D	**¶97ix4652**
ISC		Poorly determined					
ISC	**IX**	**28 13 03 41**±1.2	**42.97N**±.046	**12.87E**±.076	**13**±9.1		**24 0-7**
ROM	IX	28 13 03 41.0	43.0N	12.9E	5	3.1D	**¶97ix4655**
NEIC	IX	28 13 03 41.5	43.08N	12.85E	10		
LDG	IX	28 13 03 42.2	42.9N	13.0E		2.7L	
NEIC		Less reliable solution.					
ISC	**IX**	**28 14 01 41.0**±.79	**43.06N**±.056	**12.8E**±.12	**6**		**8 0-2**
ROM	IX	28 14 01 40.3	43.1N	12.8E	6	2.6D	**¶97ix4661**
ISC	**IX**	**28 14 06 55**±1.0	**43.03N**±.060	**12.9E**±.14	**5**		**7 0-1**
ROM	IX	28 14 06 54.2	43.1N	12.9E	5	2.3D	**¶97ix4663**
ROM	**IX**	**28 14 19 00.8**	**43.0N**	**13.1E**	**5**	**2.3D**	**¶97ix4665**
ROM	**IX**	**28 14 28 19.3**	**43.0N**	**13.0E**	**5**	**2.5D**	**¶97ix4666**
ROM	**IX**	**28 14 35 14.7**	**43.1N**	**12.9E**	**5**	**2.2D**	**¶97ix4669**
ROM	**IX**	**28 14 46 14.3**	**43.2N**	**12.8E**	**5**	**2.3D**	**¶97ix4670**
ISC	**IX**	**28 15 12 55**±1.1	**43.05N**±.070	**12.8E**±.16	**8**		**5 0-2**
ROM	IX	28 15 12 55.0	43.1N	12.9E	8	2.4D	**¶97ix4676**
ROM	**IX**	**28 15 16 09.7**	**43.0N**	**13.0E**	**5**	**2.5D**	**¶97ix4677**
ROM	**IX**	**28 15 17 37.3**	**43.1N**	**12.6E**	**5**	**2.3D**	**¶97ix4678**
ROM	**IX**	**28 15 23 23.5**	**43.1N**	**12.9E**	**5**	**2.2D**	**¶97ix4681**
ISC	**IX**	**28 15 30 20.4**±.84	**43.10N**±.035	**12.81E**±.064	**8**±7.1		**30 0-7**
NEIC	IX	28 15 30 19.6	43.06N	12.82E	10		**¶97ix4684**
ROM	IX	28 15 30 20.4	43.1N	12.9E	5	3.0D	
LDG	IX	28 15 30 21.5	42.9N	12.9E		3.0L	
NEIC		Less reliable solution.					
ROM	**IX**	**28 15 32 46.3**	**42.9N**	**12.8E**	**5**	**2.2D**	**¶97ix4685**
ISC	**IX**	**28 15 39 21**±1.4	**43.14N**±.084	**12.8E**±.18	**5**		**5 0-2**
ROM	IX	28 15 39 20.6	43.2N	12.7E	5	2.7D	**¶97ix4686**
ISC	**IX**	**28 15 41 24.0**±.97	**43.14N**±.074	**12.7E**±.15	**13**±9.4		**7 0-3**
ROM	IX	28 15 41 23.7	43.1N	12.8E	8	2.9D	**¶97ix4687**
ROM	**IX**	**28 15 52 42.1**	**43.0N**	**12.9E**	**10**	**2.6D**	**¶97ix4689**
ROM	**IX**	**28 15 56 19.4**	**43.0N**	**12.8E**	**5**	**2.3D**	**¶97ix4690**
ISC	**IX**	**28 16 01 17**±1.3	**43.02N**±.070	**12.8E**±.17	**6**±14		**6 0-2**
ROM	IX	28 16 01 16.6	43.1N	12.9E	7	2.4D	**¶97ix4694**
ISC	**IX**	**28 16 04 46.0**±.97	**43.05N**±.033	**12.82E**±.058	**15**±7.6		**42 0-8**
NEIC	IX	28 16 04 45.2	43.04N	12.82E	10		**¶97ix4695**
ROM	IX	28 16 04 46.7	43.1N	12.8E	6	3.6D	
NEIC	$M_{L3.6}$(VIE)						
NEIC	Felt I=IV MCS in the epicentral area.						
ISC	**IX**	**28 16 08 05.4**±.86	**43.09N**±.051	**12.70E**±.086	**9**±6.8		**18 0-7**
ROM	IX	28 16 08 05.2	43.1N	12.8E	5	3.0D	**¶97ix4696**
LDG	IX	28 16 08 07.0	43.1N	12.8E		3.0L	
ISC	**IX**	**28 16 15 36**±1.7	**43.05N**±.083	**12.8E**±.20	**5**		**4 0-1**
ROM	IX	28 16 15 35.0	43.1N	12.9E	5	2.4D	**¶97ix4698**
ISC		Poorly determined					
ISC	**IX**	**28 16 18 27**±2.5	**42.99N**±.086	**13.0E**±.27	**8**		**4 0-1**
ROM	IX	28 16 18 27.4	43.0N	13.0E	8	2.5D	**¶97ix4699**
ISC		Poorly determined					
ISC	**IX**	**28 16 21 02**±1.6	**43.10N**±.072	**12.9E**±.19	**6**		**5 0-1**
ROM	IX	28 16 21 02.1	43.1N	12.9E	6	2.4D	**¶97ix4700**
ISC	**IX**	**28 16 22 35.7**±.92	**42.93N**±.058	**12.8E**±.17	**5**		**7 0-6**
ROM	IX	28 16 22 34.8	43.0N	12.9E	5	2.7D	**¶97ix4701**
ISC	**IX**	**28 16 35 30**±1.3	**43.06N**±.089	**12.8E**±.23	**16**±31		**5 0-1**
ROM	IX	28 16 35 29.4	43.1N	12.9E	8	2.5D	**¶97ix4702**
ISC		Poorly determined					
ROM	**IX**	**28 16 37 21.6**	**43.0N**	**12.4E**	**5**	**2.2D**	**¶97ix4704**
ISC	**IX**	**28 16 55 43**±2.9	**42.89N**±.087	**13.1E**±.32	**5**		**4 0-1**
ROM	IX	28 16 55 42.7	42.9N	13.0E	5	2.5D	**¶97ix4708**
ISC		Poorly determined					
ISC	**IX**	**28 17 06 03**±2.5	**42.96N**±.086	**13.0E**±.28	**5**		**4 0-1**
ROM	IX	28 17 06 01.2	43.0N	13.1E	5	2.4D	**¶97ix4711**
ISC		Poorly determined					
ISC	**IX**	**28 17 15 23.1**±.88	**43.04N**±.037	**12.81E**±.066	**10**±7.4		**28 0-7**
LDG	IX	28 17 15 21.0	42.9N	13.3E		3.0L	**¶97ix4713**
ROM	IX	28 17 15 22.6	43.0N	12.9E	5	3.2D	
NEIC	IX	28 17 15 31.7	43.45N	12.02E	10		
NEIC		Less reliable solution.					
ISC	**IX**	**28 17 16 46**±1.6	**43.11N**±.082	**12.8E**±.19	**5**		**4 0-1**
ROM	IX	28 17 16 46.0	43.1N	12.8E	5	2.4D	**¶97ix4714**
ISC		Poorly determined					
ISC	**IX**	**28 17 40 04.3**±.77	**43.08N**±.051	**12.90E**±.098	**6**		**8 0-3**
ROM	IX	28 17 40 04.2	43.1N	12.9E	6	2.9D	**¶97ix4717**
ISC	**IX**	**28 17 46 03**±1.1	**43.05N**±.060	**12.9E**±.13	**2**±14		**8 0-1**
ROM	IX	28 17 46 03.0	43.1N	12.9E	5	2.7D	**¶97ix4719**
ISC	**IX**	**28 17 47 16.7**±.75	**43.09N**±.037	**12.76E**±.071	**6**±6.8		**24 0-7**
LDG	IX	28 17 47 13.6	42.8N	13.3E		2.9L	**¶97ix4720**
ROM	IX	28 17 47 16.8	43.1N	12.8E	5	3.2D	
NEIC	IX	28 17 47 18.7	43.17N	12.56E	10		
NEIC		Less reliable solution.					
ROM	**IX**	**28 17 56 30.8**	**43.0N**	**12.9E**	**5**	**2.1D**	**¶97ix4723**
ISC	**IX**	**28 17 58 46.7**±.77	**43.09N**±.047	**12.89E**±.099	**17**±8.8		**20 0-7**
LDG	IX	28 17 58 44.0	42.8N	13.3E		2.8L	**¶97ix4724**
ROM	IX	28 17 58 45.6	43.1N	12.9E	3	3.0D	
ROM	**IX**	**28 18 31 57.2**	**42.9N**	**12.9E**	**5**	**2.3D**	**¶97ix4730**
ROM	**IX**	**28 18 39 00.3**	**43.0N**	**12.9E**	**5**	**2.3D**	**¶97ix4732**
ISC	**IX**	**28 18 48 32**±1.4	**43.14N**±.081	**12.7E**±.21	**9**±13		**5 0-1**
ROM	IX	28 18 48 31.7	43.1N	12.8E	7	2.5D	**¶97ix4734**
ISC		Poorly determined					
ROM	**IX**	**28 19 04 07.3**	**43.1N**	**12.3E**	**19**	**2.2D**	**¶97ix4737**
ISC	**IX**	**28 19 05 14.2**±.95	**42.95N**±.066	**12.9E**±.15	**5**		**6 0-1**
ROM	IX	28 19 05 13.5	43.0N	12.9E	5	2.5D	**¶97ix4738**
ISC	**IX**	**28 19 12 13**±1.0	**42.95N**±.063	**12.7E**±.16	**6**		**8 0-6**
ROM	IX	28 19 12 10.6	43.0N	13.0E	6	2.8D	**¶97ix4741**
ISC	**IX**	**28 19 19 00.1**±.94	**43.16N**±.046	**12.79E**±.092	**9**±8.0		**20 0-7**
LDG	IX	28 19 18 58.7	42.9N	13.1E		2.9L	**¶97ix4742**
ROM	IX	28 19 18 59.9	43.2N	12.8E	5	2.7D	
ROM	**IX**	**28 19 29 18.4**	**43.1N**	**12.5E**	**24**	**2.0D**	**¶97ix4743**
ISC	**IX**	**28 19 31 51**±2.4	**43.04N**±.094	**12.8E**±.31	**6**		**4 0-1**
ROM	IX	28 19 31 50.0	43.1N	12.9E	6	2.4D	**¶97ix4744**
ISC		Poorly determined					
ISC	**IX**	**28 19 34 12**±6.3	**43.0N**±.48	**12.7E**±.41	**16**		**4 0-1**
ROM	IX	28 19 34 12.1	43.1N	12.6E	16	2.5D	**¶97ix4745**
ISC		Poorly determined					
ISC	**IX**	**28 19 44 52.2**±.79	**43.11N**±.044	**12.72E**±.083	**12**±6.6		**24 0-7**
LDG	IX	28 19 44 51.2	43.0N	13.0E		2.7L	**¶97ix4747**
ROM	IX	28 19 44 51.8	43.1N	12.8E	5	3.0D	
NEIC	IX	28 19 44 53.6	43.23N	12.58E	10		
NEIC		Less reliable solution.					
ISC	**IX**	**28 20 04 08**±1.5	**43.08N**±.072	**12.9E**±.18	**5**		**5 0-1**
ROM	IX	28 20 04 07.2	43.1N	12.8E	5	2.5D	**¶97ix4749**
ISC	**IX**	**28 20 17 33**±1.0	**43.09N**±.049	**12.8E**±.12	**3**±11		**11 0-6**
ROM	IX	28 20 17 32.3	43.1N	12.8E	4	3.1D	**¶97ix4751**
ROM	**IX**	**28 20 19 22.9**	**43.1N**	**12.7E**	**5**	**2.1D**	**¶97ix4752**
ISC	**IX**	**28 20 41 22**±2.1	**43.01N**±.084	**13.0E**±.24	**5**		**4 0-1**
ROM	IX	28 20 41 21.9	43.0N	12.9E	5	2.2D	**¶97ix4754**
ISC		Poorly determined					
ROM	**IX**	**28 20 47 41.5**	**43.0N**	**12.9E**	**10**	**2.0D**	**¶97ix4756**
ISC	**IX**	**28 20 56 32.5**±.87	**43.06N**±.061	**12.6E**±.13	**7**		**8 0-3**
ROM	IX	28 20 56 32.0	43.1N	12.7E	7	2.7D	**¶97ix4758**
ISC	**IX**	**28 21 10 32.5**±.92	**43.08N**±.055	**12.8E**±.12	**4**		**8 0-6**
ROM	IX	28 21 10 32.2	43.1N	12.8E	4	2.9D	**¶97ix4759**
ISC	**IX**	**28 21 15 42.9**±.82	**43.08N**±.039	**12.81E**±.072	**9**±7.2		**24 0-7**
ROM	IX	28 21 15 42.6	43.1N	12.9E	5	3.0D	**¶97ix4761**
NEIC	IX	28 21 15 43.6	43.16N	12.72E	10		
LDG	IX	28 21 15 44.1	43.0N	12.9E		2.8L	
NEIC		Less reliable solution.					
ISC	**IX**	**28 21 32 03**±1.3	**42.99N**±.096	**12.7E**±.54	**26**		**4 0-1**
ROM	IX	28 21 32 03.1	43.0N	12.8E	26	2.1D	**¶97ix4762**
ISC		Poorly determined					
ISC	**IX**	**28 21 34 52**±1.2	**43.01N**±.086	**12.7E**±.26	**11**±15		**5 0-1**
ROM	IX	28 21 34 52.0	43.0N	12.8E	10	2.3D	**¶97ix4764**
ISC		Poorly determined					
ROM	**IX**	**28 22 26 05.1**	**43.1N**	**12.5E**	**5**	**2.3D**	**¶97ix4770**
ISC	**IX**	**28 22 32 19**±1.1	**43.01N**±.081	**12.6E**±.19	**10**		**5 0-1**
ROM	IX	28 22 32 18.7	43.0N	12.6E	10	2.5D	**¶97ix4773**
ROM	**IX**	**28 22 46 29.5**	**43.2N**	**12.4E**	**10**	**2.2D**	**¶97ix4776**
ISC	**IX**	**28 22 53 30.1**±.66	**43.08N**±.046	**12.74E**±.093	**16**±8.0		**20 0-7**
LDG	IX	28 22 53 27.6	42.9N	13.2E		3.0L	**¶97ix4777**
ROM	IX	28 22 53 29.7	43.1N	12.8E	10	2.9D	
NEIC	IX	28 22 53 35.1	43.36N	12.20E	10		
NEIC		Less reliable solution.					
ISC	**IX**	**28 22 54 28**±1.0	**43.20N**±.059	**12.8E**±.13	**8**±11		**8 0-2**
ROM	IX	28 22 54 27.2	43.2N	12.7E	3	2.9D	**¶97ix4778**
ROM	**IX**	**28 23 00 12.1**	**43.1N**	**12.8E**	**10**	**2.3D**	**¶97ix4780**
ISC	**IX**	**28 23 06 12**±1.9	**43.12N**±.083	**12.9E**±.22	**5**		**4 0-1**
ROM	IX	28 23 06 11.2	43.2N	12.9E	5	2.3D	**¶97ix4781**
ISC		Poorly determined					
ISC	**IX**	**28 23 07 47**±1.2	**43.03N**±.078	**12.8E**±.16	**10**±12		**6 0-1**
ROM	IX	28 23 07 46.7	43.0N	12.8E	7	2.7D	**¶97ix4782**
ROM	**IX**	**28 23 08 21.6**	**43.1N**	**12.9E**	**5**	**2.2D**	**¶97ix4783**
ISC	**IX**	**28 23 36 07**±5.1	**43.1N**±.12	**12.9E**±.52	**9**±28		**5 0-1**
ROM	IX	28 23 36 06.8	43.1N	12.9E	5	2.5D	**¶97ix4792**
ISC		Poorly determined					
ISC	**IX**	**28 23 37 06**±2.6	**43.1N**±.10	**12.8E**±.31	**5**±25		**8 0-2**
ROM	IX	28 23 37 05.5	43.1N	12.8E	6	2.7D	**¶97ix4793**
ROM	**IX**	**28 23 53 38.9**	**43.0N**	**12.8E**	**10**	**2.2D**	**¶97ix4797**
ROM	**IX**	**28 23 55 39.8**	**42.9N**	**13.0E**	**10**	**2.2D**	**¶97ix4798**
ISC	**IX**	**28 23 57 54.1**±.78	**43.10N**±.037	**12.72E**±.052	**10**±6.3		**46 0-8**
LDG	IX	28 23 57 51.3	43.0N	13.2E		3.1L	**¶97ix4800**
NEIC	IX	28 23 57 52.9	42.99N	12.75E	10		
ROM	IX	28 23 57 54.3	43.1N	12.8E	5	3.6D	
NEIC	$M_{L3.8}$(VIE)						
ISC	**IX**	**28 23 59 03**±1.5	**43.27N**±.095	**12.3E**±.17	**5**		**4 0-1**
ROM	IX	28 23 59 02.8	43.3N	12.4E	5	2.7D	**¶97ix4801**
ISC		Poorly determined					
ISC	**IX**	**29 00 08 39.1**±.74	**43.03N**±.045	**12.88E**±.097	**16**±8.8		**23 0-7**
ROM	IX	29 00 08 37.9	43.0N	13.0E	5	3.0D	**¶97ix4802**
NEIC	IX	29 00 08 38.0	43.07N	12.90E	10		
LDG	IX	29 00 08 39.4	42.9N	13.0E		3.1L	
NEIC		Less reliable solution.					
ISC	**IX**	**29 00 17 47.0**±.91	**43.11N**±.054	**12.7E**±.13	**5**		**7 0-2**
ROM	IX	29 00 17 47.0	43.2N	12.7E	5	2.6D	**¶97ix4805**
ISC	**IX**	**29 00 34 18.2**±.63	**43.07N**±.042	**12.8E**±.10	**6**		**11 0-3**
ROM	IX	29 00 34 17.6	43.1N	12.8E	6	2.7D	**¶97ix4809**
ISC	**IX**	**29 00 40 13**±1.1	**43.04N**±.059	**12.9E**±.13	**3**±14		**8 0-1**
ROM	IX	29 00 40 13.3	43.0N	12.9E	4	2.6D	**¶97ix4810**
ISC	**IX**	**29 00 46 47.7**±.73	**42.92N**±.048	**12.9E**±.13	**5**		**11 0-2**
ROM	IX	29 00 46 47.1	42.9N	12.9E	5	3.0D	**¶97ix4811**
ROM	**IX**	**29 00 54 11.6**	**43.1N**	**12.9E**	**6**	**2.1D**	**¶97ix4812**
ISC	**IX**	**29 01 07 12**±1.7	**43.10N**±.077	**12.9E**±.21	**10**		**5 0-1**
ROM	IX	29 01 07 11.8	43.1N	12.9E	10	2.3D	**¶97ix4816**
ISC	**IX**	**29 01 10 58**±1.3	**43.07N**±.086	**12.9E**±.15	**5**		**5 0-2**
ROM	IX	29 01 10 57.8	43.1N	12.9E	5	2.5D	**¶97ix4818**
ISC	**IX**	**29 01 15 23**±1.4	**42.97N**±.099	**12.8E**±.24	**5**		**5 0-1**
ROM	IX	29 01 15 22.7	43.0N	12.8E	5	2.6D	**¶97ix4820**
ISC	**IX**	**29 01 31 30.8**±.73	**42.85N**±.058	**12.7E**±.17	**21**±15		**9 0-1**
ROM	IX	29 01 31 30.5	42.9N	12.7E	13	2.7D	**¶97ix4822**
ISC	**IX**	**29 01 43 58**±1.1	**43.07N**±.073	**12.9E**±.15	**10**		**5 0-1**
ROM	IX	29 01 43 58.1	43.1N	12.9E	10	2.2D	**¶97ix4824**
ISC	**IX**	**29 01 50 44**±1.1	**43.07N**±.058	**12.8E**±.14	**7**±12		**8 0-2**
ROM	IX	29 01 50 43.2	43.1N	12.8E	3	2.5D	**¶97ix4826**
ISC	**IX**	**29 01 54 15**±1.9	**43.11N**±.090	**12.9E**±.22	**8**		**4 0-1**
ROM	IX	29 01 54 15.5	43.1N	12.9E	8	2.3D	**¶97ix4827**
ISC		Poorly determined					
ISC	**IX**	**29 02 02 36.8**±.76	**43.02N**±.048	**12.9E**±.12	**5**		**11 0-3**
ROM	IX	29 02 02 36.2	43.0N	12.9E	5	2.8D	**¶97ix4828**
ISC	**IX**	**29 02 11 48**±2.0	**43.10N**±.092	**12.9E**±.23	**5**±22		**5 0-1**
ROM	IX	29 02 11 48.2	43.1N	12.9E	9	2.2D	**¶97ix4829**
ISC		Poorly determined					
ISC	**IX**	**29 02 14 47**±1.0	**43.02N**±.061	**12.9E**±.13	**7**±13		**8 0-1**
ROM	IX	29 02 14 47.0	43.1N	12.9E	7	2.2D	**¶97ix4830**
ISC	**IX**	**29 02 24 08.8**±.90	**42.92N**±.062	**12.9E**±.16	**5**		**6 0-1**
ROM	IX	29 02 24 08.3	42.9N	12.9E	5	2.1D	**¶97ix4833**
ROM	**IX**	**29 02 29 12.4**	**43.0N**	**12.9E**	**10**	**1.9D**	**¶97ix4836**
ISC	**IX**	**29 02 36 16.8**±.80	**43.02N**±.056	**12.9E**±.12	**3**		**8 0-1**
ROM	IX	29 02 36 16.1	43.0N	12.9E	3	2.6D	**¶97ix4838**
ISC	**IX**	**29 02 51 51.8**±.75	**43.04N**±.037	**12.68E**±.074	**11**±6.7		**35 0-7**
LDG	IX	29 02 51 48.7	42.8N	13.2E		3.0L	**¶97ix4841**
ROM	IX	29 02 51 51.0	43.1N	12.9E	5	2.9D	
NEIC	IX	29 02 51 51.8	43.06N	12.68E	10		
ISC	**IX**	**29 02 56 01**±1.2	**43.05N**±.071	**12.9E**±.15	**2**±21		**6 0-1**
ROM	IX	29 02 56 00.8	43.1N	12.9E	10	2.5D	**¶97ix4843**
ISC	**IX**	**29 02 58 42.6**±.96	**43.01N**±.041	**12.78E**±.079	**15**±7.7		**23 0-7**
NEIC	IX	29 02 58 39.2	42.93N	13.02E	10		**¶97ix4844**
ROM	IX	29 02 58 42.8	43.0N	12.8E	9	2.9D	
LDG	IX	29 02 58 44.7	42.9N	12.7E		2.8L	
NEIC		Less reliable solution.					

Agency		Origin Time		φ	λ	h	Mag	*n*	Δ-Rng
		mo d h m s		°	°	km			°
ISC	**IX**	**29 03 03 00.8**±.77		**43.06N**±.039	**12.70E**±.071	**12**±6.2		**26**	**0-7**
LDG	IX	29 03 02 57.8		42.9N	13.2E		3.0L		¶97ix4845
ROM	IX	29 03 02 59.9		43.1N	12.9E	5	2.8D		
NEIC	IX	29 03 03 00.7		43.06N	12.68E	10			
NEIC	M_L3.2(VIE) Less reliable solution.								
ISC	**IX**	**29 03 18 45**±1.7		**43.07N**±.083	**12.8E**±.20	**5**		**4**	**0-1**
ROM	IX	29 03 18 43.9		43.1N	12.8E	5	2.1D		¶97ix4850
ISC	Poorly determined								
ISC	**IX**	**29 03 22 08**±1.8		**43.04N**±.083	**12.9E**±.21	**5**		**4**	**0-1**
ROM	IX	29 03 22 07.4		43.0N	12.9E	5	2.1D		¶97ix4853
ISC	Poorly determined								
ISC	**IX**	**29 03 40 17.1**±.86		**43.11N**±.058	**12.8E**±.12	**5**		**7**	**0-2**
ROM	IX	29 03 40 16.7		43.1N	12.8E	5	2.4D		¶97ix4856
ISC	**IX**	**29 03 52 36.5**±.88		**43.04N**±.033	**12.84E**±.061	**10**±7.2		**35**	**0-7**
LDG	IX	29 03 52 34.9		42.8N	13.2E		3.2L		¶97ix4860
ROM	IX	29 03 52 36.0		43.1N	12.9E	5	3.1D		
NEIC	IX	29 03 52 36.3		43.03N	12.80E	10			
NEIC	M_L3.3(VIE) Less reliable solution.								
ISC	**IX**	**29 03 59 31**±1.9		**43.06N**±.091	**12.9E**±.23	**10**		**4**	**0-1**
ROM	IX	29 03 59 30.5		43.1N	12.9E	10	2.1D		¶97ix4862
ISC	Poorly determined								
ROM	**IX**	**29 04 25 45.6**		**43.1N**	**12.9E**	**8**	**2.0D**		¶97ix4866
ISC	**IX**	**29 04 30 32**±2.6		**42.99N**±.094	**13.1E**±.29	**10**		**4**	**0-1**
ROM	IX	29 04 30 32.3		43.0N	13.0E	10	2.0D		¶97ix4867
ISC	Poorly determined								
ISC	**IX**	**29 04 48 26**±1.3		**43.03N**±.072	**13.0E**±.16	**4**±17		**6**	**0-1**
ROM	IX	29 04 48 25.5		43.0N	13.0E	5	2.4D		¶97ix4869
ISC	**IX**	**29 05 04 14.5**±.77		**43.09N**±.053	**12.8E**±.11	**5**		**9**	**0-3**
ROM	IX	29 05 04 14.0		43.1N	12.8E	5	2.7D		¶97ix4871
ISC	**IX**	**29 05 26 35.4**±.94		**43.15N**±.061	**12.8E**±.12	**5**		**6**	**0-2**
ROM	IX	29 05 26 35.0		43.2N	12.8E	5	2.3D		¶97ix4873
ISC	**IX**	**29 05 29 35**±1.7		**43.11N**±.085	**12.8E**±.21	**11**±13		**5**	**0-1**
ROM	IX	29 05 29 34.4		43.1N	12.8E	9	2.2D		¶97ix4874
ISC	Poorly determined								
ISC	**IX**	**29 05 37 49.2**±.95		**43.00N**±.038	**12.76E**±.066	**14**±7.6		**29**	**0-7**
ROM	IX	29 05 37 48.5		43.0N	12.9E	8	3.1D		¶97ix4875
NEIC	IX	29 05 37 49.0		42.99N	12.69E	10			
LDG	IX	29 05 37 49.1		42.9N	12.9E		3.3L		
NEIC	M_L3.5(VIE), Less reliable solution.								
ISC	**IX**	**29 05 45 04**±1.8		**43.05N**±.083	**12.9E**±.21	**5**		**4**	**0-1**
ROM	IX	29 05 45 03.2		43.1N	12.9E	5	2.0D		¶97ix4877
ISC	Poorly determined								
ROM	**IX**	**29 05 49 33.6**		**43.1N**	**12.5E**	**8**	**2.2D**		¶97ix4879
ISC	**IX**	**29 06 05 14**±1.6		**43.09N**±.083	**12.8E**±.19	**5**		**4**	**0-1**
ROM	IX	29 06 05 12.9		43.1N	12.8E	5	2.2D		¶97ix4881
ISC	Poorly determined								
ROM	**IX**	**29 06 06 54.8**		**43.0N**	**12.9E**	**6**	**1.9D**		¶97ix4882
ROM	**IX**	**29 06 18 11.4**		**43.1N**	**12.8E**	**6**	**2.0D**		¶97ix4884
ROM	**IX**	**29 06 22 29.5**		**43.1N**	**12.9E**	**5**	**2.2D**		¶97ix4885
ISC	**IX**	**29 06 23 07**±1.1		**43.03N**±.066	**12.9E**±.14	**5**±13		**7**	**0-1**
ROM	IX	29 06 23 07.1		43.1N	12.9E	6	2.8D		¶97ix4886
ROM	**IX**	**29 06 34 29.2**		**43.1N**	**12.8E**	**7**	**2.1D**		¶97ix4888
ROM	**IX**	**29 06 35 00.3**		**42.9N**	**12.9E**	**10**	**2.1D**		¶97ix4889
ROM	**IX**	**29 06 52 49.7**		**43.1N**	**12.6E**	**5**	**2.3D**		¶97ix4892
ROM	**IX**	**29 07 10 14.7**		**43.1N**	**12.8E**	**7**	**2.1D**		¶97ix4895
ISC	**IX**	**29 07 19 24.0**±.96		**43.06N**±.042	**12.78E**±.075	**14**±7.6		**23**	**0-8**
ROM	IX	29 07 19 23.1		43.1N	12.8E	5	3.1D		¶97ix4896
NEIC	IX	29 07 19 24.0		43.13N	12.73E	10			
LDG	IX	29 07 19 25.0		43.0N	12.9E		3.2L		
NEIC	Less reliable solution.								
ROM	**IX**	**29 07 25 54.9**		**43.0N**	**12.9E**	**8**	**2.2D**		¶97ix4897
ISC	**IX**	**29 07 44 53**±1.3		**43.07N**±.060	**12.9E**±.15	**1**±16		**8**	**0-3**
ROM	IX	29 07 44 53.0		43.1N	12.8E	5	2.8D		¶97ix4901
ISC	**IX**	**29 07 50 26**±1.1		**43.03N**±.065	**12.9E**±.14	**5**		**6**	**0-2**
ROM	IX	29 07 50 26.3		43.1N	12.9E	5	2.6D		¶97ix4902
ISC	**IX**	**29 08 01 32.9**±.99		**43.04N**±.037	**12.83E**±.059	**15**±8.0		**31**	**0-7**
LDG	IX	29 08 01 31.0		42.9N	13.2E		3.3L		¶97ix4904
ROM	IX	29 08 01 31.2		43.0N	12.9E	2	3.3D		
NEIC	IX	29 08 01 33.1		43.10N	12.76E	10			
NEIC	M_L3.6(VIE)								
NEIC	MD 3.2 (ROM). Felt I=IV MCS in the epicentral area.								
ISC	**IX**	**29 08 13 16.4**±.83		**43.15N**±.055	**12.7E**±.12	**5**		**7**	**0-2**
ROM	IX	29 08 13 15.8		43.2N	12.7E	5	2.8D		¶97ix4905
ISC	**IX**	**29 08 18 59**±1.1		**43.04N**±.065	**12.9E**±.13	**4**±14		**7**	**0-1**
ROM	IX	29 08 18 58.8		43.1N	12.9E	3	2.5D		¶97ix4906
ISC	**IX**	**29 08 19 44**±1.3		**43.06N**±.056	**12.9E**±.11	**13**±10		**12**	**0-7**
ROM	IX	29 08 19 43.2		43.1N	12.9E	5	2.8D		¶97ix4907
ISC	**IX**	**29 08 20 51**±1.2		**42.99N**±.071	**12.8E**±.17	**11**±11		**7**	**0-6**
ROM	IX	29 08 20 51.3		43.0N	12.8E	10	2.9D		¶97ix4909
ISC	**IX**	**29 08 38 20**±2.0		**43.04N**±.091	**12.9E**±.23	**10**		**4**	**0-1**
ROM	IX	29 08 38 19.3		43.0N	12.9E	10	2.2D		¶97ix4914
ISC	Poorly determined								
ISC	**IX**	**29 08 52 59**±1.5		**43.07N**±.076	**12.9E**±.19	**6**±18		**5**	**0-2**
ROM	IX	29 08 52 58.4		43.1N	12.8E	6	2.5D		¶97ix4916
ISC	Poorly determined								
ISC	**IX**	**29 09 14 17.7**±.99		**43.15N**±.058	**12.8E**±.13	**5**		**6**	**0-2**
ROM	IX	29 09 14 17.2		43.2N	12.7E	5	2.5D		¶97ix4918
ISC	**IX**	**29 09 34 47.4**±.92		**43.05N**±.065	**12.8E**±.13	**7**		**6**	**0-2**
ROM	IX	29 09 34 46.9		43.1N	12.8E	7	2.6D		¶97ix4920
ROM	**IX**	**29 09 56 45.3**		**43.0N**	**12.9E**	**5**	**2.2D**		¶97ix4922
ISC	**IX**	**29 10 05 48**±1.8		**43.02N**±.074	**12.9E**±.21	**4**		**5**	**0-1**
ROM	IX	29 10 05 46.9		43.0N	12.9E	4	2.1D		¶97ix4924
ISC	**IX**	**29 11 02 49**±1.1		**43.07N**±.064	**12.9E**±.14	**5**		**6**	**0-2**
ROM	IX	29 11 02 48.5		43.1N	12.8E	5	2.3D		¶97ix4932
ISC	**IX**	**29 11 08 22**±1.8		**43.05N**±.090	**12.9E**±.22	**9**		**4**	**0-1**
ROM	IX	29 11 08 21.6		43.1N	12.9E	9	2.1D		¶97ix4933
ISC	Poorly determined								
ROM	**IX**	**29 11 23 57.6**		**43.1N**	**12.8E**	**10**	**2.0D**		¶97ix4936
ISC	**IX**	**29 11 42 52**±1.6		**43.07N**±.090	**12.8E**±.21	**9**		**4**	**0-1**
ROM	IX	29 11 42 51.4		43.1N	12.8E	9	2.2D		¶97ix4938
ISC	Poorly determined								
ISC	**IX**	**29 11 45 20**±1.9		**43.00N**±.086	**12.9E**±.24	**8**±18		**5**	**0-1**
ROM	IX	29 11 45 19.2		43.0N	12.9E	4	2.4D		¶97ix4939
ISC	Poorly determined								
ISC	**IX**	**29 12 11 45**±1.2		**43.09N**±.078	**12.8E**±.14	**9**±11		**6**	**0-3**
ROM	IX	29 12 11 43.9		43.1N	12.8E	6	2.5D		¶97ix4944
ISC	**IX**	**29 13 14 10**±2.1		**43.14N**±.075	**10.77E**±.061	**10**±15		**21**	**1-6**
ROM	IX	29 13 14 11.7		43.3N	10.9E	5	2.8D		¶97ix4955
NEIC	IX	29 13 14 13.7		43.27N	10.41E	10			
LDG	IX	29 13 14 15.0		43.2N	10.4E		2.9L		
NEIC	Less reliable solution.								
ISC	**IX**	**29 13 29 15.5**±.89		**43.03N**±.035	**12.81E**±.064	**10**±7.4		**30**	**0-8**
ROM	IX	29 13 29 14.4		43.0N	12.9E	4	3.3D		¶97ix4956
LDG	IX	29 13 29 14.5		42.8N	13.1E		3.3L		
NEIC	IX	29 13 29 15.6		43.10N	12.80E	10			
NEIC	Less reliable solution.								
NEIC	ML 3.1 (VIE). Felt I=IV MCS in the epicentral area.								
ISC	**IX**	**29 13 47 52**±2.1		**43.05N**±.093	**12.9E**±.24	**13**±14		**5**	**0-1**
ROM	IX	29 13 47 50.3		43.0N	13.0E	5	2.1D		¶97ix4958
ISC	Poorly determined								
ISC	**IX**	**29 14 04 31**±1.1		**43.00N**±.063	**13.0E**±.14	**7**±13		**8**	**0-1**
ROM	IX	29 14 04 30.8		43.0N	13.0E	5	2.9D		¶97ix4962
ISC	**IX**	**29 14 34 24**±1.9		**43.02N**±.075	**13.0E**±.21	**5**		**5**	**0-1**
ROM	IX	29 14 34 23.8		43.0N	12.9E	5	2.5D		¶97ix4964
ISC	**IX**	**29 15 02 25.5**±.86		**43.00N**±.078	**12.7E**±.18	**17**±16		**7**	**0-2**
ROM	IX	29 15 02 25.2		43.0N	12.8E	10	2.5D		¶97ix4969
ISC	**IX**	**29 15 30 36**±1.1		**43.03N**±.066	**12.9E**±.15	**5**		**6**	**0-1**
ROM	IX	29 15 30 34.9		43.0N	12.9E	5	2.6D		¶97ix4972
ISC	**IX**	**29 16 00 16.9**±.98		**43.05N**±.053	**12.8E**±.11	**6**±11		**11**	**0-4**
ROM	IX	29 16 00 16.5		43.1N	12.8E	9	3.0D		¶97ix4977
ISC	**IX**	**29 16 01 24**±1.7		**43.08N**±.083	**12.9E**±.20	**5**		**4**	**0-1**
ROM	IX	29 16 01 23.0		43.1N	12.9E	5	2.6D		¶97ix4978
ISC	Poorly determined								
ROM	**IX**	**29 16 06 13.0**		**43.0N**	**12.9E**	**10**	**2.1D**		¶97ix4979
ISC	**IX**	**29 16 14 32**±1.8		**43.05N**±.083	**12.9E**±.20	**3**		**4**	**0-1**
ROM	IX	29 16 14 30.7		43.1N	12.9E	3	2.1D		¶97ix4980
ISC	Poorly determined								
ROM	**IX**	**29 16 20 12.2**		**43.0N**	**12.9E**	**5**	**2.0D**		¶97ix4981
ISC	**IX**	**29 16 46 02**±1.8		**43.11N**±.091	**12.9E**±.22	**6**±20		**5**	**0-1**
ROM	IX	29 16 46 00.9		43.1N	12.9E	6	2.3D		¶97ix4982
ISC	Poorly determined								
ISC	**IX**	**29 16 49 37.3**±.87		**43.01N**±.059	**12.9E**±.13	**4**		**7**	**0-1**
ROM	IX	29 16 49 36.3		43.0N	12.9E	4	2.9D		¶97ix4984
ROM	**IX**	**29 16 59 44.6**		**43.1N**	**12.8E**	**3**	**2.0D**		¶97ix4985
ISC	**IX**	**29 17 33 36**±1.6		**43.08N**±.073	**12.8E**±.18	**6**		**5**	**0-1**
ROM	IX	29 17 33 35.5		43.1N	12.8E	6	2.2D		¶97ix4992
ROM	**IX**	**29 17 38 56.6**		**43.1N**	**12.8E**	**5**	**2.0D**		¶97ix4994
ROM	**IX**	**29 17 45 55.0**		**43.0N**	**12.9E**	**5**	**2.2D**		¶97ix4997
ISC	**IX**	**29 17 51 26**±1.2		**43.03N**±.071	**12.9E**±.15	**5**		**5**	**0-1**
ROM	IX	29 17 51 25.8		43.0N	12.9E	5	2.3D		¶97ix4999
ISC	**IX**	**29 18 10 12.6**±.75		**43.06N**±.026	**12.82E**±.033	**7**±6.2		**89**	**0-8**
LDG	IX	29 18 10 09.9		42.8N	13.3E		3.4L		¶97ix5001
ROM	IX	29 18 10 11.8		43.0N	12.9E	7	3.6D		
NEIC	IX	29 18 10 13.0		43.06N	12.80E	10			
NEIC	M_L3.6(VIE)								
ISC	**IX**	**29 18 49 58**±1.6		**43.07N**±.083	**12.9E**±.19	**4**±19		**6**	**0-1**
ROM	IX	29 18 49 57.2		43.1N	12.9E	7	2.5D		¶97ix5005
ISC	**IX**	**29 19 15 28**±2.0		**43.08N**±.084	**12.9E**±.22	**5**		**4**	**0-1**
ROM	IX	29 19 15 27.8		43.1N	12.9E	5	2.0D		¶97ix5008
ISC	Poorly determined								
ISC	**IX**	**29 20 25 53**±1.3		**43.07N**±.076	**12.8E**±.16	**9**±12		**6**	**0-2**
ROM	IX	29 20 25 53.0		43.1N	12.8E	8	2.4D		¶97ix5015
ISC	**IX**	**29 20 38 41**±1.5		**43.06N**±.063	**12.9E**±.15	**4**±15		**7**	**0-2**
ROM	IX	29 20 38 41.1		43.1N	12.9E	4	2.3D		¶97ix5017
ISC	**IX**	**29 21 09 24**±1.2		**43.09N**±.057	**12.8E**±.14	**2**±17		**7**	**0-2**
ROM	IX	29 21 09 23.5		43.1N	12.8E	5	2.3D		¶97ix5022
ISC	**IX**	**29 21 11 37.9**±.78		**42.99N**±.052	**12.9E**±.13	**5**		**10**	**0-3**
ROM	IX	29 21 11 37.1		43.0N	12.9E	5	2.5D		¶97ix5023
ISC	**IX**	**29 21 15 33**±1.7		**43.11N**±.083	**12.8E**±.20	**5**		**4**	**0-1**
ROM	IX	29 21 15 32.4		43.1N	12.9E	5	2.0D		¶97ix5025
ISC	Poorly determined								
ISC	**IX**	**29 21 26 00**±1.3		**42.97N**±.070	**12.9E**±.15	**10**±13		**8**	**0-1**
ROM	IX	29 21 25 59.7		43.0N	12.9E	9	2.3D		¶97ix5028
ISC	**IX**	**29 21 40 08**±1.7		**43.07N**±.083	**12.8E**±.21	**8**		**4**	**0-1**
ROM	IX	29 21 40 08.3		43.1N	12.8E	8	2.2D		¶97ix5030
ISC	Poorly determined								
ISC	**IX**	**29 21 52 40.2**±.85		**43.06N**±.037	**12.82E**±.063	**8**±7.2		**31**	**0-8**
LDG	IX	29 21 52 38.4		42.9N	13.3E		3.2L		¶97ix5035
ROM	IX	29 21 52 39.6		43.1N	12.9E	5	3.1D		
NEIC	IX	29 21 52 42.8		43.17N	12.59E	10			
NEIC	M_L3.4(VIE)								
ISC	**IX**	**29 22 13 02.0**±.73		**43.10N**±.049	**12.8E**±.11	**4**		**9**	**0-4**
ROM	IX	29 22 13 01.4		43.1N	12.8E	4	2.7D		¶97ix5042
ISC	**IX**	**29 22 51 46.2**±.73		**43.12N**±.032	**12.69E**±.046	**12**±6.0		**45**	**0-8**
ROM	IX	29 22 51 45.4		43.1N	12.8E	5	3.2D		¶97ix5045
NEIC	IX	29 22 51 45.5		43.08N	12.70E	10			
LDG	IX	29 22 51 46.1		43.0N	12.9E		3.3L		
NEIC	M_L3.4(VIE)								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**IX**	**29 23 00 45**±1.2		**42.99N**±.072	**13.0E**±.16	**4**±16		**6**	**0-1**
ROM	IX	29 23 00 44.9		43.0N	13.0E	5	2.1D		¶97ix5049
ISC	**IX**	**29 23 12 40**±1.8		**43.10N**±.090	**12.9E**±.22	**10**		**4**	**0-1**
ROM	IX	29 23 12 39.8		43.1N	12.8E	10	2.1D		¶97ix5051
ISC	Poorly determined								
ROM	**IX**	**29 23 37 29.4**		**43.1N**	**12.8E**	**10**	**2.1D**		¶97ix5058
ISC	**IX**	**29 23 41 14**±1.1		**43.05N**±.069	**12.8E**±.14	**5**		**5**	**0-1**
ROM	IX	29 23 41 13.4		43.1N	12.8E	5	2.2D		¶97ix5060
ISC	**IX**	**29 23 48 16**±1.1		**43.04N**±.069	**12.9E**±.14	**5**±17		**7**	**0-1**
ROM	IX	29 23 48 15.5		43.1N	12.9E	5	2.3D		¶97ix5063
ISC	**IX**	**29 23 50 53**±1.1		**43.09N**±.068	**12.9E**±.14	**2**±19		**7**	**0-1**
ROM	IX	29 23 50 52.6		43.1N	12.9E	4	2.5D		¶97ix5064
ISC	**IX**	**29 23 55 58**±2.0		**43.0N**±.14	**12.9E**±.26	**5**		**4**	**0-1**
ROM	IX	29 23 55 56.0		43.0N	13.0E	5	2.2D		¶97ix5067
ISC	Poorly determined								
ISC	**IX**	**30 00 01 24.2**±.85		**43.07N**±.055	**12.8E**±.12	**5**		**8**	**0-2**
ROM	IX	30 00 01 23.9		43.1N	12.8E	5	2.7D		¶97ix5069
ROM	**IX**	**30 00 20 54.9**		**43.1N**	**12.9E**	**5**	**1.8D**		¶97ix5073
ISC	**IX**	**30 00 26 55.0**±.74		**43.11N**±.049	**12.8E**±.11	**5**		**10**	**0-3**
ROM	IX	30 00 26 54.7		43.1N	12.8E	5	2.6D		¶97ix5074
ISC	**IX**	**30 00 33 06.6**±.78		**42.94N**±.050	**12.9E**±.13	**5**		**9**	**0-1**
ROM	IX	30 00 33 06.1		42.9N	12.9E	5	2.5D		¶97ix5075
ROM	**IX**	**30 00 38 34.9**		**42.9N**	**12.9E**	**5**	**2.0D**		¶97ix5078
ROM	**IX**	**30 00 52 00.1**		**43.1N**	**12.9E**	**5**	**1.9D**		¶97ix5080
ROM	**IX**	**30 00 53 18.7**		**43.1N**	**12.9E**	**5**	**1.9D**		¶97ix5082
ISC	**IX**	**30 01 05 35**±1.9		**42.96N**±.080	**13.0E**±.24	**10**		**5**	**0-1**
ROM	IX	30 01 05 34.7		43.0N	12.9E	10	2.3D		¶97ix5084
ISC	**IX**	**30 01 09 29.4**±.79		**43.04N**±.060	**12.8E**±.13	**9**		**8**	**0-2**
ROM	IX	30 01 09 28.9		43.1N	12.9E	9	2.2D		¶97ix5085

ROM	**IX**	**30 01 42 18.4**	**43.0N**	**12.9E**	**5**	**2.1D**	**¶97ix5091**
ISC	**IX**	**30 01 43 49**±1.3	**43.06N**±.072	**12.9E**±.14	**9**±13		**7**	**0-2**	**¶97ix5268**
ROM	IX	30 01 43 48.2	43.1N	12.9E	8	2.4D	**¶97ix5092**
ISC	**IX**	**30 02 25 52**±1.4	**43.01N**±.065	**13.0E**±.17	**8**±13		**7**	**0-1**
ROM	IX	30 02 25 51.1	43.0N	12.9E	4	2.3D	**¶97ix5101**
ISC	**IX**	**30 02 33 01**±1.8	**43.03N**±.083	**12.9E**±.22	**8**		**4**	**0-1**
ROM	IX	30 02 33 00.8	43.0N	12.9E	8	2.1D	**¶97ix5103**
ISC		Poorly determined					
ROM	**IX**	**30 03 38 06.7**	**43.1N**	**12.8E**	**8**	**2.0D**	**¶97ix5112**
ROM	**IX**	**30 03 45 41.2**	**43.0N**	**12.9E**	**10**	**2.0D**	**¶97ix5116**
ISC	**IX**	**30 04 24 20.7**±.72	**43.08N**±.035	**12.66E**±.057	**11**±6.1		**38**	**0-8**
ROM	IX	30 04 24 19.8	43.1N	12.8E	4	3.2D	**¶97ix5123**
NEIC	IX	30 04 24 20.2	42.97N	12.67E	10		
NEIC		M_L3.5(VIE), Less reliable solution.					
NEIC		Felt I=IV MCS in the epicentral area.					
ISC	**IX**	**30 04 38 56.1**±.84	**43.09N**±.059	**12.7E**±.15	**7**±8.7		**8**	**0-2**
ROM	IX	30 04 38 55.6	43.1N	12.7E	6	2.4D	**¶97ix5127**
ROM	**IX**	**30 04 54 34.5**	**43.0N**	**12.9E**	**3**	**2.0D**	**¶97ix5129**
ISC	**IX**	**30 04 59 17**±1.1	**43.01N**±.067	**12.9E**±.15	**9**±12		**7**	**0-1**
ROM	IX	30 04 59 16.8	43.0N	12.9E	7	2.4D	**¶97ix5131**
ROM	**IX**	**30 05 27 55.8**	**43.1N**	**13.1E**	**10**	**2.1D**	**¶97ix5133**
ISC	**IX**	**30 05 33 14**±2.7	**43.0N**±.11	**12.3E**±.38	**29**		**4**	**0-1**
ROM	IX	30 05 33 15.4	43.0N	12.5E	29	2.1D	**¶97ix5134**
ISC		Poorly determined					
ISC	**IX**	**30 05 49 52.5**±.92	**43.02N**±.063	**12.9E**±.13	**5**		**7**	**0-1**
ROM	IX	30 05 49 51.9	43.0N	12.9E	5	2.4D	**¶97ix5135**
ISC	**IX**	**30 05 51 00**±1.1	**42.99N**±.065	**13.0E**±.15	**5**		**6**	**0-1**
ROM	IX	30 05 50 59.6	43.0N	13.0E	5	2.6D	**¶97ix5136**
ISC	**IX**	**30 05 52 52.2**±.89	**43.00N**±.041	**12.79E**±.073	**11**±7.6		**27**	**0-8**
NEIC	IX	30 05 52 50.3	42.97N	12.95E	10		**¶97ix5137**
LDG	IX	30 05 52 50.6	42.8N	13.1E		3.0L	
ROM	IX	30 05 52 51.1	43.0N	12.9E	5	2.9D	
NEIC		Less reliable solution.					
ISC	**IX**	**30 06 01 15**±1.7	**43.07N**±.083	**12.8E**±.19	**5**		**4**	**0-1**
ROM	IX	30 06 01 14.2	43.1N	12.8E	5	2.2D	**¶97ix5139**
ISC		Poorly determined					
ISC	**IX**	**30 06 07 01**±1.8	**43.09N**±.087	**12.8E**±.21	**9**±14		**5**	**0-1**
ROM	IX	30 06 07 00.2	43.1N	12.8E	5	2.5D	**¶97ix5140**
ISC		Poorly determined					
ISC	**IX**	**30 06 16 46.5**±.79	**43.04N**±.039	**12.68E**±.059	**10**±6.4		**31**	**0-7**
ROM	IX	30 06 16 45.7	43.1N	12.9E	4	3.1D	**¶97ix5143**
LDG	IX	30 06 16 47.2	42.9N	12.9E		3.3L	
NEIC	IX	30 06 16 48.1	43.14N	12.54E	10		
NEIC		M_L3.4(VIE), Less reliable solution.					
NEIC		Felt I=IV MCS in the epicentral area.					
ISC	**IX**	**30 07 12 22**±1.0	**43.01N**±.069	**12.8E**±.15	**5**±15		**6**	**0-1**
ROM	IX	30 07 12 21.5	43.0N	12.8E	5	2.7D	**¶97ix5154**
ISC	**IX**	**30 07 30 05.3**±.80	**43.04N**±.055	**12.9E**±.12	**5**		**9**	**0-3**
ROM	IX	30 07 30 04.3	43.0N	12.9E	5	2.7D	**¶97ix5160**
ISC	**IX**	**30 07 41 04**±1.1	**43.10N**±.061	**12.9E**±.12	**1**±16		**7**	**0-2**
ROM	IX	30 07 41 04.3	43.1N	12.8E	8	2.5D	**¶97ix5162**
ISC	**IX**	**30 07 44 38.8**±.89	**43.08N**±.059	**12.9E**±.12	**4**		**7**	**0-2**
ROM	IX	30 07 44 38.1	43.1N	12.9E	4	2.3D	**¶97ix5165**
ROM	**IX**	**30 08 10 42.5**	**43.1N**	**12.7E**	**20**	**2.2D**	**¶97ix5168**
ISC	**IX**	**30 08 15 24**±1.4	**43.14N**±.075	**12.8E**±.19	**5**		**4**	**0-1**
ROM	IX	30 08 15 23.8	43.1N	12.8E	5	2.0D	**¶97ix5171**
ISC		Poorly determined					
ISC	**IX**	**30 08 26 29**±1.5	**43.09N**±.089	**12.8E**±.20	**8**		**4**	**0-1**
ROM	IX	30 08 26 29.2	43.1N	12.8E	8	2.2D	**¶97ix5173**
ISC		Poorly determined					
ROM	**IX**	**30 08 48 51.3**	**43.1N**	**12.8E**	**5**	**2.0D**	**¶97ix5181**
ISC	**IX**	**30 08 59 05.6**±.96	**43.14N**±.056	**12.8E**±.11	**7**±12		**8**	**0-3**
ROM	IX	30 08 59 04.9	43.2N	12.8E	4	2.6D	**¶97ix5183**
ISC	**IX**	**30 09 45 02**±2.4	**42.97N**±.092	**13.0E**±.28	**10**		**4**	**0-1**
ROM	IX	30 09 45 01.8	43.0N	12.9E	10	2.4D	**¶97ix5192**
ISC		Poorly determined					
ISC	**IX**	**30 09 51 24**±1.2	**43.03N**±.060	**12.9E**±.14	**6**±13		**8**	**0-1**
ROM	IX	30 09 51 24.2	43.1N	12.9E	6	2.8D	**¶97ix5194**
ISC	**IX**	**30 10 14 15**±2.3	**43.01N**±.092	**13.0E**±.26	**10**		**4**	**0-1**
ROM	IX	30 10 14 14.4	43.0N	13.0E	10	2.1D	**¶97ix5197**
ISC		Poorly determined					
ISC	**IX**	**30 10 15 13**±2.0	**43.03N**±.091	**12.9E**±.23	**10**		**4**	**0-1**
ROM	IX	30 10 15 12.4	43.0N	12.9E	10	2.1D	**¶97ix5198**
ISC		Poorly determined					
ISC	**IX**	**30 10 27 38**±2.1	**43.02N**±.089	**12.9E**±.24	**5**±21		**5**	**0-1**
ROM	IX	30 10 27 37.8	43.0N	12.9E	10	2.3D	**¶97ix5202**
ISC		Poorly determined					
ISC	**IX**	**30 10 31 17**±1.1	**43.01N**±.067	**12.9E**±.14	**5**±14		**7**	**0-1**
ROM	IX	30 10 31 16.6	43.0N	13.0E	2	2.5D	**¶97ix5204**
ISC	**IX**	**30 10 51 37**±2.1	**43.00N**±.091	**13.0E**±.25	**10**		**4**	**0-1**
ROM	IX	30 10 51 37.0	43.0N	12.9E	10	2.2D	**¶97ix5207**
ISC		Poorly determined					
ROM	**IX**	**30 10 58 37.7**	**43.0N**	**12.9E**	**5**	**2.1D**	**¶97ix5209**
ISC	**IX**	**30 11 09 20.2**±.79	**42.92N**±.059	**12.9E**±.14	**5**		**8**	**0-1**
ROM	IX	30 11 09 19.6	42.9N	12.9E	5	2.6D	**¶97ix5211**
ISC	**IX**	**30 11 37 54**±1.7	**42.97N**±.077	**12.9E**±.21	**1**±22		**5**	**0-1**
ROM	IX	30 11 37 53.5	43.0N	12.9E	5	2.5D	**¶97ix5218**
ISC		Poorly determined					
ISC	**IX**	**30 12 10 33**±1.4	**43.15N**±.081	**12.7E**±.19	**4**±25		**5**	**0-1**
ROM	IX	30 12 10 32.0	43.2N	12.7E	5	2.1D	**¶97ix5222**
ISC		Poorly determined					
ISC	**IX**	**30 12 34 39**±2.1	**43.01N**±.091	**13.0E**±.25	**10**		**4**	**0-1**
ROM	IX	30 12 34 39.5	43.0N	12.9E	10	2.2D	**¶97ix5225**
ISC		Poorly determined					
ISC	**IX**	**30 12 48 15**±1.6	**43.09N**±.083	**12.8E**±.19	**5**		**4**	**0-1**
ROM	IX	30 12 48 14.3	43.1N	12.8E	5	2.1D	**¶97ix5229**
ISC		Poorly determined					
ROM	**IX**	**30 13 34 59.1**	**42.9N**	**13.0E**	**5**	**2.0D**	**¶97ix5238**
ISC	**IX**	**30 14 04 49**±1.2	**43.09N**±.063	**12.8E**±.13	**6**±13		**7**	**0-2**
ROM	IX	30 14 04 48.5	43.1N	12.9E	4	2.7D	**¶97ix5244**
ISC	**IX**	**30 15 13 40.3**±.84	**43.01N**±.057	**12.9E**±.13	**3**		**8**	**0-1**
ROM	IX	30 15 13 39.5	43.0N	13.0E	3	2.7D	**¶97ix5258**
ISC	**IX**	**30 15 27 10**±1.8	**43.10N**±.076	**12.9E**±.18	**1**±22		**5**	**0-2**
ROM	IX	30 15 27 10.1	43.1N	12.8E	5	2.2D	**¶97ix5262**
ISC		Poorly determined					
ISC	**IX**	**30 15 33 14**±1.5	**43.14N**±.079	**12.8E**±.22	**5**		**4**	**0-1**
ROM	IX	30 15 33 13.6	43.1N	12.8E	5	2.2D	**¶97ix5264**
ISC		Poorly determined					
ISC	**IX**	**30 15 41 10**±1.3	**43.21N**±.096	**12.5E**±.18	**8**±20		**5**	**0-1**
ROM	IX	30 15 41 09.5	43.2N	12.5E	10	2.1D	**¶97ix5267**
ISC		Poorly determined					
ISC	**IX**	**30 15 41 29**±1.3	**43.02N**±.083	**12.9E**±.18	**10**		**4**	**0-1**
ROM	IX	30 15 41 28.6	43.0N	12.9E	10	2.6D	**¶97ix5268**
ISC		Poorly determined					
ISC	**IX**	**30 15 44 14**±1.6	**43.14N**±.071	**12.9E**±.19	**5**		**5**	**0-1**
ROM	IX	30 15 44 13.1	43.1N	12.8E	5	2.2D	**¶97ix5270**
ISC	**IX**	**30 16 42 06**±1.1	**42.97N**±.059	**12.9E**±.14	**3**±14		**8**	**0-1**
ROM	IX	30 16 42 05.3	43.0N	12.9E	5	2.7D	**¶97ix5276**
ISC	**IX**	**30 16 46 19**±1.1	**43.03N**±.060	**12.9E**±.13	**0**±15		**8**	**0-1**
ROM	IX	30 16 46 18.5	43.1N	12.9E	5	2.7D	**¶97ix5278**
ISC	**IX**	**30 17 04 01**±2.1	**43.01N**±.084	**13.0E**±.24	**5**		**4**	**0-1**
ROM	IX	30 17 04 00.4	43.0N	13.0E	5	2.1D	**¶97ix5281**
ISC		Poorly determined					
ISC	**IX**	**30 17 26 55**±1.0	**42.95N**±.055	**12.9E**±.14	**6**±12		**9**	**0-1**
ROM	IX	30 17 26 54.5	43.0N	13.0E	2	2.7D	**¶97ix5283**
ROM	**IX**	**30 17 30 07.3**	**43.0N**	**12.9E**	**10**	**2.2D**	**¶97ix5284**
ISC	**IX**	**30 17 41 11**±1.2	**43.12N**±.056	**12.8E**±.13	**5**±13		**8**	**0-2**
ROM	IX	30 17 41 10.6	43.1N	12.9E	5	2.7D	**¶97ix5285**
ROM	**IX**	**30 18 20 37.7**	**43.1N**	**12.9E**	**6**	**1.9D**	**¶97ix5288**
ISC	**IX**	**30 18 49 00.7**±.92	**43.10N**±.052	**12.8E**±.11	**3**±15		**9**	**0-3**
ROM	IX	30 18 49 00.5	43.1N	12.8E	8	2.6D	**¶97ix5292**
ISC	**IX**	**30 18 49 41**±1.0	**43.08N**±.062	**12.9E**±.11	**0**±14		**11**	**0-6**
ROM	IX	30 18 49 40.6	43.1N	12.9E	4	2.7D	**¶97ix5293**
ISC	**IX**	**30 19 07 12**±1.2	**43.08N**±.057	**12.8E**±.13	**4**±13		**8**	**0-2**
ROM	IX	30 19 07 11.9	43.1N	12.8E	9	2.4D	**¶97ix5297**
ISC	**IX**	**30 19 27 41**±1.1	**43.00N**±.055	**13.0E**±.13	**3**±13		**9**	**0-1**
ROM	IX	30 19 27 41.3	43.0N	13.0E	5	2.8D	**¶97ix5300**
ISC	**IX**	**30 19 49 07**±1.7	**43.08N**±.090	**12.8E**±.20	**5**±20		**5**	**0-1**
ROM	IX	30 19 49 07.0	43.1N	12.8E	7	2.1D	**¶97ix5302**
ISC		Poorly determined					
ISC	**IX**	**30 20 02 13**±1.1	**43.08N**±.057	**12.8E**±.13	**6**±12		**8**	**0-2**
ROM	IX	30 20 02 12.7	43.1N	12.8E	5	2.7D	**¶97ix5303**
ROM	**IX**	**30 20 21 00.2**	**43.1N**	**12.7E**	**5**	**2.1D**	**¶97ix5305**
ROM	**IX**	**30 21 02 40.0**	**43.1N**	**12.8E**	**10**	**1.9D**	**¶97ix5310**
ISC	**IX**	**30 21 15 47.2**±.97	**43.09N**±.054	**12.8E**±.12	**1**±16		**8**	**0-2**
ROM	IX	30 21 15 46.8	43.1N	12.8E	3	2.5D	**¶97ix5311**
ROM	**IX**	**30 21 26 38.0**	**42.9N**	**12.9E**	**10**	**2.0D**	**¶97ix5315**
ISC	**IX**	**30 22 10 58**±1.2	**43.00N**±.070	**13.0E**±.16	**5**		**5**	**0-1**
ROM	IX	30 22 10 57.4	43.0N	13.0E	5	2.2D	**¶97ix5320**
ISC	**IX**	**30 22 18 32**±1.0	**42.94N**±.051	**13.0E**±.14	**5**±10		**10**	**0-1**
ROM	IX	30 22 18 31.3	43.0N	13.0E	5	2.4D	**¶97ix5322**
ISC	**IX**	**30 22 18 49.1**±.76	**43.12N**±.035	**12.72E**±.057	**13**±6.2		**41**	**0-7**
LDG	IX	30 22 18 46.6	42.9N	13.1E		2.9L	**¶97ix5323**
ROM	IX	30 22 18 48.7	43.1N	12.7E	10	3.0D	
NEIC	IX	30 22 18 48.8	43.13N	12.70E	10		
NEIC		M_L3.3(VIE)					
ISC	**IX**	**30 22 27 27**±1.2	**43.04N**±.060	**12.9E**±.15	**7**±13		**8**	**0-1**
ROM	IX	30 22 27 26.8	43.1N	12.9E	7	2.4D	**¶97ix5325**
ISC	**IX**	**30 22 55 52**±1.3	**43.11N**±.059	**12.9E**±.13	**7**±13		**8**	**0-2**
ROM	IX	30 22 55 51.3	43.1N	12.9E	6	2.3D	**¶97ix5328**
ISC	**IX**	**30 23 10 26.7**±.79	**43.08N**±.053	**12.8E**±.11	**4**		**8**	**0-2**
ROM	IX	30 23 10 26.1	43.1N	12.8E	4	2.5D	**¶97ix5330**
ISC	**IX**	**30 23 40 16.9**±.75	**43.07N**±.035	**12.71E**±.057	**10**±6.1		**35**	**0-7**
ROM	IX	30 23 40 15.9	43.1N	12.8E	5	2.9D	**¶97ix5333**
NEIC	IX	30 23 40 15.9	43.00N	12.74E	10		
LDG	IX	30 23 40 17.0	42.8N	12.9E		2.8L	
NEIC		M_L3.2(VIE), Less reliable solution.					
ISC	**IX**	**30 23 41 04**±1.2	**43.18N**±.075	**12.8E**±.18	**4**		**5**	**0-2**
ROM	IX	30 23 41 03.1	43.2N	12.8E	4	2.4D	**¶97ix5334**
ISC	**IX**	**30 23 52 57**±1.0	**43.11N**±.057	**12.8E**±.13	**9**±10		**9**	**0-3**
ROM	IX	30 23 52 56.1	43.1N	12.8E	8	2.5D	**¶97ix5336**
ISC	**X**	**01 02 51 04.4**±.90	**43.06N**±.040	**12.78E**±.071	**11**±6.9		**28**	**0-7**
ROM	X	01 02 51 03.5	43.1N	12.9E	5	3.2D	**¶97x0011**
NEIC	X	01 02 51 04.1	43.05N	12.79E	10		
LDG	X	01 02 51 04.6	42.9N	13.0E		3.0L	
ISC	**X**	**01 03 00 06.8**±.89	**43.09N**±.043	**12.80E**±.080	**12**±7.0		**21**	**0-7**
LDG	X	01 03 00 05.4	43.0N	13.2E		3.0L	**¶97x0015**
ROM	X	01 03 00 06.0	43.1N	12.9E	4	3.1D	
NEIC	X	01 03 00 08.2	43.24N	12.65E	10		
NEIC		Less reliable solution.					
ISC	**X**	**01 04 54 08**±1.2	**43.07N**±.061	**12.8E**±.11	**14**±7.7		**17**	**0-7**
NEIC	X	01 04 54 06.3	43.05N	12.85E	10		**¶97x0030**
LDG	X	01 04 54 06.9	42.9N	13.0E		3.1L	
ROM	X	01 04 54 07.3	43.1N	12.8E	5	3.1D	
NEIC		Poor solution.					
NEIC		Felt I=III MCS in the epicentral area.					
ISC	**X**	**01 06 13 26.1**±.86	**42.94N**±.032	**12.89E**±.055	**9**±7.1		**42**	**0-7**
STR	X	01 06 13 24.5	42.80N	13.30E	10	3.5L	**¶97x0038**
LDG	X	01 06 13 24.5	42.8N	13.3E		3.5L	
ROM	X	01 06 13 25.3	43.0N	12.9E	4	3.5D	
NEIC	X	01 06 13 26.9	43.03N	12.79E	10		
NEIC		M_L3.8(VIE)					
NEIC		Felt I=IV MCS in the epicentral area.					
ISC	**X**	**01 06 36 25.3**±.86	**42.94N**±.034	**12.90E**±.061	**10**±7.1		**37**	**0-7**
ROM	X	01 06 36 24.8	42.9N	12.9E	6	3.6D	**¶97x0042**
LDG	X	01 06 36 24.8	42.8N	13.1E		3.4L	
NEIC	X	01 06 36 27.4	43.12N	12.71E	10		
STR	X	01 06 36 36.7	43.29N	12.05E	10	3.2L	
NEIC		M_L3.6(VIE), Less reliable solution.					
NEIC		Felt I=IV MCS in the epicentral area.					
ISC	**X**	**01 07 05 41.8**±.94	**42.98N**±.032	**12.89E**±.050	**10**±7.1	3.3b	**53**	**0-71**
ROM	X	01 07 05 41.3	43.0N	12.9E	6	3.5D	**¶97x0046**
LDG	X	01 07 05 42.5	42.9N	13.1E		3.3L	
NEIC	X	01 07 05 43.0	43.09N	12.80E	10		
EIDC	X	01 07 05 43.9	43.1N	13.3E	0	3.8L,3.7b	
NEIC		M_L3.6(VIE)					
NEIC		MD 3.2 (ROM) Felt I=IV MCS in the epicentral area.					
ISC	**X**	**01 09 15 43.5**±.78	**43.08N**±.053	**12.8E**±.11	**3**		**8**	**0-2**
ROM	X	01 09 15 43.0	43.1N	12.8E	3	3.0D	**¶97x0063**
ISC	**X**	**01 13 13 26.0**±.84	**43.07N**±.063	**12.7E**±.10	**26**±13		**12**	**1-7**
ROM	X	01 13 13 25.1	43.1N	12.8E	10	3.0D	**¶97x0090**
NEIC	X	01 13 13 26.8	43.30N	12.50E	10		
NEIC		Less reliable solution.					
NEIC		Felt I=III MCS in the epicentral area.					
ISC	**X**	**01 17 19 13.1**±.98	**43.01N**±.049	**12.9E**±.11	**4**±11		**15**	**0-7**
ROM	X	01 17 19 12.6	43.0N	12.9E	7	3.2D	**¶97x0125**
ISC	**X**	**01 18 07 08.8**±.81	**43.02N**±.034	**12.86E**±.064	**7**±7.3		**27**	**0-7**
LDG	X	01 18 07 07.3	42.8N	13.2E		3.2L	**¶97x0131**
ROM	X	01 18 07 08.4	43.0N	12.9E	5	3.0D	
NEIC	X	01 18 07 09.6	43.04N	12.75E	10		
NEIC		M_L3.1(VIE), Less reliable solution.					
NEIC		Felt I=III MCS in the epicentral area.					

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**01 18 27 10.9**±.80	**42.89N**±.031	**12.86E**±.066	**7**±7.1		**40**	**0-7**
ROM	X	01 18 27 10.0	42.9N	12.9E	4	3.2D		¶97x0134
NEIC	X	01 18 27 11.1	42.90N	12.88E	10			
LDG	X	01 18 27 11.6	42.8N	13.0E		3.3L		
NEIC		M_L3.6(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**01 18 37 46**±1.1	**42.96N**±.036	**12.81E**±.067	**11**±8.9		**31**	**0-7**
ROM	X	01 18 37 44.1	43.0N	13.0E	5	3.2D		¶97x0137
NEIC	X	01 18 37 46.8	43.04N	12.70E	10			
LDG	X	01 18 37 47.5	43.0N	12.9E		3.0L		
NEIC		M_L3.2(VIE), Less reliable solution.						
ISC	**X**	**01 20 05 20.3**±.47	**43.06N**±.039	**12.86E**±.058	**10**		**42**	**0-7**
NEIC	X	01 20 05 19.1	42.94N	12.87E	10			¶97x0148
LDG	X	01 20 05 20.3	42.9N	13.0E		3.1L		
ROM	X	01 20 05 21.0	43.1N	12.8E	17	3.1D		
NEIC		M_L3.4(VIE)						
NEIC		Felt I=III MCS in the epicentral area.						
ISC	**X**	**01 20 28 29.5**±.87	**43.03N**±.037	**12.76E**±.074	**8**±7.0		**27**	**0-7**
NEIC	X	01 20 28 26.1	42.77N	13.00E	10			¶97x0149
ROM	X	01 20 28 28.7	43.1N	12.9E	8	3.1D		
LDG	X	01 20 28 29.3	42.8N	12.9E		3.0L		
NEIC		Less reliable solution.						
ISC	**X**	**01 21 08 47.2**±.83	**43.06N**±.033	**12.79E**±.056	**11**±6.6		**39**	**0-7**
LDG	X	01 21 08 45.8	42.9N	13.1E		3.1L		¶97x0151
ROM	X	01 21 08 46.2	43.1N	12.9E	5	3.4D		
NEIC	X	01 21 08 47.7	43.10N	12.71E	10			
NEIC		M_L3.6(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**01 21 17 38**±1.0	**43.06N**±.058	**12.9E**±.13	**3**		**7**	**0-3**
ROM	X	01 21 17 37.5	43.1N	12.9E	3	3.0D		¶97x0154
ISC	**X**	**01 22 07 46.4**±.80	**43.03N**±.037	**12.86E**±.066	**8**±7.0		**26**	**0-7**
NEIC	X	01 22 07 44.5	42.85N	12.95E	10			¶97x0164
ROM	X	01 22 07 45.7	43.0N	12.9E	2	3.4D		
NEIC		M_L3.0(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**02 03 39 20.2**±.84	**43.02N**±.035	**12.82E**±.062	**8**±6.9		**36**	**0-7**
LDG	X	02 03 39 18.4	42.8N	13.2E		2.9L		¶97x0197
ROM	X	02 03 39 19.1	43.0N	12.9E	2	3.1D		
NEIC	X	02 03 39 20.1	43.03N	12.84E	10			
NEIC		M_L3.0(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**02 05 35 48.4**±.92	**42.94N**±.030	**12.87E**±.048	**1**±8.1		**51**	**0-7**
ROM	X	02 05 35 47.6	42.9N	13.0E	5	3.6D		¶97x0216
LDG	X	02 05 35 47.8	42.8N	13.3E		3.4L		
NEIC	X	02 05 35 50.0	42.91N	12.79E	10			
NEIC		M_L3.7(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	**X**	**02 06 58 31**±1.0	**43.00N**±.036	**12.82E**±.071	**14**±8.2		**28**	**0-7**
LDG	X	02 06 58 27.8	42.8N	13.2E		3.2L		¶97x0228
ROM	X	02 06 58 29.4	43.0N	12.9E	5	3.5D		
NEIC	X	02 06 58 30.4	43.03N	12.76E	10			
NEIC		M_L3.4(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**02 07 29 20**±1.1	**43.02N**±.043	**12.80E**±.088	**13**±8.4		**18**	**0-7**
ROM	X	02 07 29 18.6	43.0N	12.9E	5	3.3D		¶97x0232
LDG	X	02 07 29 19.6	42.9N	13.0E		3.1L		
NEIC	X	02 07 29 21.0	43.12N	12.65E	10			
NEIC		Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**02 07 38 44.5**±.93	**42.96N**±.060	**13.0E**±.14	**5**		**7**	**0-1**
ROM	X	02 07 38 44.2	43.0N	12.9E	5	3.2D		¶97x0234
ISC	**X**	**02 10 31 04**±1.2	**42.93N**±.045	**12.9E**±.10	**13**±10		**18**	**0-7**
ROM	X	02 10 31 02.7	42.9N	13.0E	5	3.2D		¶97x0261
LDG	X	02 10 31 04.5	42.8N	12.9E		3.2L		
NEIC	X	02 10 31 05.9	43.04N	12.58E	10			
NEIC		Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**02 10 59 55.5**±.66	**43.07N**±.021	**12.74E**±.021	**6**±5.1	**4.2b**,3.6s	**204**	**0-117**
ROM	X	02 10 59 55.4	43.1N	12.8E	10	4.0D		¶97x0265
EIDC	X	02 10 59 55.8	42.9N	12.9E	0	4.1b,4.0L		
NEIC	X	02 10 59 56.2	43.08N	12.70E	10	4.4b		
LDG	X	02 10 59 57.3	43.0N	12.8E		4.0L		
PDG	X	02 11 00 04.1	43.0N	13.4E	20	4.1L		
STR	X	02 11 00 06.2	43.48N	12.00E	10	4.3L		
NEIC		M_L4.4(VIE)						
NEIC		ML 4.1 (FUR). Felt I=VI MCS in the Sansepolcro area. Felt as far as Florence.						
ISC	**X**	**02 19 38 02.0**±.58	**43.64N**±.019	**12.15E**±.018	**9**±4.4	**4.3b,3.9s**	**231**	**0-129**
BJI	X	02 19 38 01.2	43.60N	12.10E	10	4.7b		¶97x0330
ROM	X	02 19 38 01.9	43.6N	12.2E	5	4.1D		
NEIC	X	02 19 38 02.2	43.64N	12.14E	10	4.5b		
EIDC	X	02 19 38 02.5	43.6N	12.2E	0	4.1b,3.9s		
LDG	X	02 19 38 03.9	43.5N	12.2E		4.2L		
PDG	X	02 19 38 04.7	43.3N	12.3E	8	4.2L		
STR	X	02 19 38 09.6	43.84N	11.59E	10	4.6L		
NEIC		M_L4.5(FUR).						
NEIC		ML 4.4 (VIE)						
ISC	**X**	**02 21 07 02.3**±.90	**43.59N**±.049	**12.07E**±.062	**10**±7.1		**25**	**0-6**
NEIC	X	02 21 07 01.0	43.47N	12.12E	10			¶97x0346
ROM	X	02 21 07 01.5	43.7N	12.2E	5	3.2D		
LDG	X	02 21 07 02.1	43.5N	12.3E		2.9L		
NEIC		M_L2.9(VIE), Less reliable solution.						
ISC	**X**	**02 21 38 42.3**±.60	**43.62N**±.020	**12.13E**±.019	**9**±4.6	**4.1b**,3.6s	**205**	**0-129**
ROM	X	02 21 38 42.2	43.6N	12.2E	4	4.0D		¶97x0348
NEIC	X	02 21 38 42.5	43.64N	12.12E	10	4.3b		
EIDC	X	02 21 38 42.6	43.4N	12.2E	0	4.1L,3.8s		
LDG	X	02 21 38 44.3	43.5N	12.2E		4.0L		
PDG	X	02 21 38 45.6	43.0N	12.2E	5	4.2L		
STR	X	02 21 38 49.9	43.84N	11.57E	10	4.4L		
NEIC		M_L4.3(FUR).						
NEIC		ML 4.1 (VIE)						
ISC	**X**	**03 03 03 17.5**±.86	**43.61N**±.058	**12.13E**±.059	**10**±6.9		**22**	**0-6**
LDG	X	03 03 03 18.1	43.5N	12.3E		2.7L		¶97x0375
ISC	**X**	**03 06 35 03.0**±.78	**43.04N**±.032	**12.72E**±.055	**10**±6.3		**44**	**0-8**
LDG	X	03 06 35 00.5	42.9N	13.2E		3.3L		¶97x0409
ROM	X	03 06 35 01.3	43.0N	12.9E	6	3.4D		
NEIC	X	03 06 35 03.0	43.03N	12.70E	10			
NEIC		M_L3.6(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**03 06 36 52.4**±.65	**43.11N**±.048	**12.76E**±.094	**18**±8.9		**19**	**0-8**
ROM	X	03 06 36 52.0	43.1N	12.8E	5	3.1D		¶97x0411
ISC	**X**	**03 07 44 04.5**±.99	**43.08N**±.060	**12.8E**±.13	**3**±11		**9**	**0-6**
ROM	X	03 07 44 03.8	43.1N	12.8E	6	3.3D		¶97x0418
ISC	**X**	**03 07 50 27.0**±.79	**43.62N**±.043	**12.11E**±.047	**14**±4.9		**67**	**0-8**
STR	X	03 07 50 25.5	43.50N	12.50E	10	3.7L		¶97x0419
LDG	X	03 07 50 25.5	43.5N	12.5E		3.4L		
NEIC	X	03 07 50 26.2	43.58N	12.10E	10			
ROM	X	03 07 50 26.6	43.6N	12.2E	8	3.4D		
NEIC		M_L3.5(VIE)						
ISC	**X**	**03 08 55 20.7**±.52	**43.07N**±.014	**12.81E**±.015	**2**±3.7	**5.1b,5.0s**	**470**	**0-150**
LEDBW	X	03 08 55 19.3	42.37N	13.47E	10	5.1L		¶97x0431
ROM	X	03 08 55 20.6	43.0N	12.9E	5	4.7D		
LDG	X	03 08 55 21.1	42.9N	13.0E		4.9L		
BJI	X	03 08 55 21.1	43.21N	12.91E	4	5.3b,5.4s		
MOS	X	03 08 55 21.4	43.1N	12.8E	10	5.7b,5.0s		
NEIC	X	03 08 55 21.5	43.08N	12.79E	10	5.1b,4.9s		
EIDC	X	03 08 55 22.5	43.1N	12.9E	0	4.8b,5.0s		
HRVD	X	03 08 55 25.9±.4	43.01N±.05	12.66E±.07	15			
STR	X	03 08 55 28.9	43.34N	12.37E	10	5.2L		
PDG	X	03 08 55 30.8	42.6N	13.6E	15	4.9L,5.1D		
NEIC		M_L5.5(VIE), Mw5.3(HRV)						
NEIC		ML 5.4 (FUR). About 20 people injured and additional damage I=VII MCS in the Marche and Umbria regions. Additional damage to the Basilica of St. Francis at Assisi. Felt at Rome.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c47; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−8.55±.62; $M_{\theta\theta}$6.86±.56; $M_{\phi\phi}$1.69±.64; $M_{r\theta}$0.20±1.76; $M_{r\phi}$−3.42±1.55; $M_{\theta\phi}$−4.90±.66. Principal Axes: T 10.0,Plg6°,Azm33°; N −0.3, Plg19°,Azm125°; P −9.7,Plg70°,Azm285°. Best double couple: $M_0$9.9×10^{16}Nm, NP1: ϕ_S103°,δ42°,λ−118°. NP2:ϕ_S319°,δ54°,λ−67°.					
ISC	**X**	**03 09 14 07.1**±.78	**43.69N**±.053	**12.13E**±.063	**15**±6.4		**24**	**0-6**
LDG	X	03 09 14 02.0	43.5N	12.8E		3.0L		¶97x0436
NEIC	X	03 09 14 07.9	43.78N	11.98E	10			
NEIC		Less reliable solution.						
ISC	**X**	**03 10 09 42.0**±.85	**43.02N**±.034	**12.85E**±.062	**8**±7.1		**36**	**0-7**
ROM	X	03 10 09 41.3	43.0N	12.9E	7	3.4D		¶97x0446
NEIC	X	03 10 09 42.2	42.99N	12.82E	10			
LDG	X	03 10 09 42.7	42.9N	13.0E		3.2L		
NEIC		M_L3.6(VIE), Less reliable solution.						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	**X**	**03 11 08 16.9**±.89	**42.99N**±.034	**12.79E**±.060	**11**±7.2		**42**	**0-7**
ROM	X	03 11 08 16.4	43.0N	12.9E	10	3.4D		¶97x0450
LDG	X	03 11 08 16.9	42.9N	13.0E		3.2L		
NEIC	X	03 11 08 18.1	43.01N	12.64E	10			
NEIC		M_L3.8(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	**X**	**03 11 17 36**±1.2	**42.89N**±.036	**12.86E**±.070	**12**±9.6		**30**	**0-7**
ROM	X	03 11 17 35.0	42.9N	12.9E	5	3.3D		¶97x0453
LDG	X	03 11 17 37.3	42.9N	13.0E		3.0L		
NEIC	X	03 11 17 38.2	43.01N	12.64E	10			
NEIC		M_L3.4(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**03 11 44 52**±1.4	**43.09N**±.061	**13.0E**±.15	**6**±13		**9**	**0-6**
ROM	X	03 11 44 51.6	43.1N	12.9E	5	3.1D		¶97x0455
ISC	**X**	**03 12 16 24.7**±.78	**43.07N**±.043	**12.70E**±.075	**9**±6.4		**25**	**0-7**
NEIC	X	03 12 16 21.1	42.96N	13.02E	10			¶97x0460
LDG	X	03 12 16 21.3	42.8N	13.2E		3.2L		
ROM	X	03 12 16 23.8	43.1N	12.8E	5	3.3D		
NEIC		Poor solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**03 12 48 44.9**±.79	**43.08N**±.034	**12.74E**±.060	**10**±6.3		**45**	**0-8**
LDG	X	03 12 48 43.8	42.9N	13.0E		3.3L		¶97x0465
ROM	X	03 12 48 44.0	43.1N	12.8E	5	3.5D		
NEIC	X	03 12 48 44.9	43.09N	12.72E	10			
NEIC		M_L3.8(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	**X**	**03 13 27 04.7**±.69	**43.65N**±.037	**12.16E**±.042	**14**±5.2		**51**	**0-7**
LDG	X	03 13 26 57.7	43.0N	12.8E		3.4L		¶97x0471
STR	X	03 13 27 02.5	43.48N	12.52E	10	3.7L		
NEIC	X	03 13 27 03.8	43.62N	12.17E	10			
ROM	X	03 13 27 04.1	43.6N	12.2E	4	3.5D		
NEIC		M_L3.4(VIE), Less reliable solution.						
ISC	**X**	**03 14 03 45.1**±.69	**43.05N**±.050	**12.79E**±.095	**18**±8.0		**20**	**0-7**
LDG	X	03 14 03 43.8	42.9N	13.1E		3.1L		¶97x0474
ROM	X	03 14 03 44.4	43.0N	12.8E	6	3.2D		
NEIC	X	03 14 03 45.0	43.18N	12.72E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**03 17 07 43.8**±.85	**43.03N**±.052	**12.79E**±.077	**15**±8.6		**24**	**0-7**
ROM	X	03 17 07 42.4	43.0N	12.9E	8	3.4D		¶97x0495
LDG	X	03 17 07 43.1	42.9N	13.0E		3.1L		
NEIC	X	03 17 07 46.0	43.17N	12.51E	10			
NEIC		M_L3.4(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**03 18 33 05.3**±.75	**42.97N**±.066	**12.7E**±.10	**5**		**15**	**1-7**
LDG	X	03 18 33 03.3	42.9N	13.2E		3.0L		¶97x0507
ROM	X	03 18 33 04.2	43.1N	12.9E	5	3.0D		
ISC	**X**	**03 19 02 36.0**±.92	**43.05N**±.049	**12.76E**±.085	**9**±7.2		**23**	**0-7**
ROM	X	03 19 02 35.5	43.1N	12.8E	8	3.0D		¶97x0514
LDG	X	03 19 02 35.6	42.9N	13.0E		2.9L		
NEIC	X	03 19 02 37.3	43.08N	12.63E	10			
NEIC		Less reliable solution.						
ISC	**X**	**03 21 18 33.2**±.67	**42.94N**±.041	**12.83E**±.072	**15**±8.7		**26**	**0-7**
NEIC	X	03 21 18 29.6	42.84N	13.06E	10			¶97x0526
ROM	X	03 21 18 32.0	43.0N	13.0E	5	3.2D		
LDG	X	03 21 18 33.6	42.9N	13.0E		3.0L		
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	**X**	**03 22 16 06.6**±.66	**43.65N**±.066	**12.07E**±.073	**18**±8.0		**22**	**0-9**
LDG	X	03 22 16 05.2	43.4N	12.3E		2.8L		¶97x0533
NEIC	X	03 22 16 05.7	43.63N	12.03E	10			
NEIC		Less reliable solution.						
ISC	**X**	**03 22 20 00.4**±.96	**43.65N**±.073	**12.12E**±.089	**14**±6.8		**17**	**0-6**
LDG	X	03 22 19 51.9	43.0N	12.9E		2.8L		¶97x0534
ISC	**X**	**03 22 45 30.7**±.67	**42.99N**±.047	**12.8E**±.11	**5**		**10**	**0-3**
ROM	X	03 22 45 29.7	43.0N	12.9E	5	3.0D		¶97x0539
ISC	**X**	**04 00 10 35.5**±.81	**43.62N**±.074	**12.18E**±.085	**6**±15		**8**	**0-1**
ROM	X	04 00 10 35.1	43.6N	12.2E	5	3.0D		¶97x0551
ISC	**X**	**04 00 41 28.0**±.94	**42.98N**±.032	**12.78E**±.047	**13**±7.3	3.6b	**66**	**0-71**
NEIC	X	04 00 41 26.2	42.87N	12.83E	10			¶97x0552
ROM	X	04 00 41 26.9	43.0N	12.9E	3	3.5D		
LDG	X	04 00 41 27.8	42.9N	13.0E		3.3L		

EIDC X 04 00 41 29.9 43.2N 13.5E 0 3.8L,3.5b
NEIC Felt I=IV MCS in the epicentral area.
ISC X 04 00 47 42.5±.84 **42.93N**±.028 **12.91E**±.031 **10**±6.7 4.1b **99 0-71**
ROM X 04 00 47 41.6 42.9N 13.0E 5 3.7D **¶97x0553**
NEIC X 04 00 47 42.3 42.95N 12.90E 10
LDG X 04 00 47 44.1 42.9N 13.0E 3.4L
STR X 04 00 47 50.0 43.18N 12.51E 10 3.7L
EIDC X 04 00 47 51.1 43.5N 13.5E 0 3.8L,3.4b
NEIC ML4.1(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 04 03 26 49.9±.77 **43.65N**±.057 **12.11E**±.061 **13**±6.2 **21 0-6**
LDG X 04 03 26 42.6 43.1N 12.9E 2.7L **¶97x0570**
NEIC X 04 03 26 47.0 43.59N 12.33E 10
NEIC Poor solution.
ISC X 04 03 28 09.6±.75 **43.60N**±.034 **12.16E**±.034 **13**±5.5 **102 0-20**
NEIC X 04 03 28 05.9 43.36N 12.30E 10 **¶97x0571**
ROM X 04 03 28 09.2 43.6N 12.2E 6 3.7D
LDG X 04 03 28 10.4 43.5N 12.1E 3.4L
STR X 04 03 28 12.3 43.67N 12.03E 6 3.7L
NEIC ML3.8(VIE)
ISC X 04 03 37 49.9±.65 **43.67N**±.053 **12.12E**±.058 **20**±8.6 **31 0-8**
NEIC X 04 03 37 48.5 43.65N 12.12E 10 **¶97x0573**
LDG X 04 03 37 49.1 43.5N 12.3E 3.0L
ROM X 04 03 37 49.5 43.7N 12.2E 5 3.1D
ISC X 04 03 50 46.2±.64 **43.65N**±.028 **12.11E**±.031 **13**±4.8 **107 0-8**
ROM X 04 03 50 45.5 43.6N 12.2E 5 3.6D **¶97x0576**
LDG X 04 03 50 46.3 43.5N 12.2E 3.4L
NEIC X 04 03 50 46.4 43.64N 12.00E 10
STR X 04 03 50 49.4 43.74N 11.89E 6 3.8L
NEIC ML3.7(VIE)
ISC X 04 03 55 54.8±.64 **43.64N**±.056 **12.14E**±.061 **17**±8.0 **27 0-7**
NEIC X 04 03 55 54.9 43.65N 12.03E 10 **¶97x0577**
LDG X 04 03 55 55.0 43.5N 12.3E 2.8L
NEIC Less reliable solution.
ISC X 04 04 20 54.8±.67 **43.63N**±.031 **12.12E**±.033 **12**±4.9 3.6b **90 0-71**
NEIC X 04 04 20 53.8 43.57N 12.13E 10 **¶97x0580**
ROM X 04 04 20 54.0 43.6N 12.2E 4 3.5D
LDG X 04 04 20 55.0 43.5N 12.3E 3.3L
EIDC X 04 04 20 56.0 43.7N 12.2E 0 3.7L,3.6b
STR X 04 04 21 01.4 43.85N 11.63E 6 3.7L
NEIC ML3.7(VIE)
ISC X 04 06 04 29.0±.79 **42.93N**±.025 **12.86E**±.025 **3**±6.4 **3.9b 135 0-75**
STR X 04 06 04 27.7 42.79N 13.14E 6 4.1L **¶97x0591**
LDG X 04 06 04 27.9 42.8N 13.3E 3.8L
ROM X 04 06 04 28.4 42.9N 13.0E 5 3.9D
NEIC X 04 06 04 30.0 42.97N 12.88E 10
EIDC X 04 06 04 32.6 43.0N 13.4E 0 4.0L,3.8b
PDG X 04 06 04 38.1 42.5N 13.6E 15 3.8L
NEIC ML4.4(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 04 06 13 35±1.1 **43.09N**±.061 **12.8E**±.12 **1**±17 **7 0-2**
ROM X 04 06 13 34.8 43.1N 12.8E 3 3.0D **¶97x0593**
ISC X 04 06 38 34.1±.82 **43.66N**±.062 **12.14E**±.068 **11**±7.1 **18 0-6**
NEIC X 04 06 38 30.4 43.51N 12.43E 10 **¶97x0596**
LDG X 04 06 38 33.7 43.5N 12.4E 2.9L
NEIC Poor solution.
ISC X 04 06 45 01±1.0 **43.02N**±.039 **12.82E**±.071 **14**±8.0 **26 0-7**
ROM X 04 06 45 00.1 43.0N 12.9E 5 3.3D **¶97x0599**
LDG X 04 06 45 01.5 42.9N 12.9E 3.1L
NEIC X 04 06 45 01.9 43.16N 12.70E 10
NEIC Less reliable solution.
ISC X 04 06 49 58.5±.74 **42.91N**±.022 **12.92E**±.022 **4**±5.8 **3.9b,3.8s 182 0-81**
ROM X 04 06 49 58.0 42.9N 12.9E 5 4.1D **¶97x0600**
MOS X 04 06 49 59.1 42.9N 13.0E 10 4.7b
NEIC X 04 06 49 59.1 42.90N 12.90E 10 4.5b
EIDC X 04 06 49 59.2 42.8N 13.3E 0 3.9b,3.9s
LDG X 04 06 49 59.4 42.8N 13.1E 4.1L
STR X 04 06 50 02.2 43.02N 12.79E 6 4.3L
NEIC ML4.6(VIE)
NEIC Felt I=VI MCS in the epicentral area.
ISC X 04 07 11 55±1.0 **42.92N**±.054 **12.9E**±.14 **4**±12 **9 0-6**
ROM X 04 07 11 54.7 42.9N 12.9E 10 3.0D **¶97x0603**
ISC X 04 07 18 14.2±.82 **43.66N**±.062 **12.17E**±.068 **13**±6.9 **19 0-6**
NEIC X 04 07 18 10.2 43.57N 12.50E 10 **¶97x0604**
LDG X 04 07 18 15.8 43.6N 12.2E 2.6L
NEIC Poor solution.
ISC X 04 07 41 07.9±.97 **42.98N**±.046 **12.79E**±.087 **11**±8.0 **23 0-7**
ROM X 04 07 41 06.7 43.0N 12.9E 3 3.1D **¶97x0606**
NEIC X 04 07 41 13.8 43.17N 12.19E 10
LDG X 04 07 41 17.7 43.1N 12.0E 2.7L
NEIC Poor solution.
ISC X 04 08 31 19±1.1 **43.14N**±.049 **12.8E**±.11 **6**±8.7 **17 0-7**
ROM X 04 08 31 18.3 43.2N 12.9E 5 3.1D **¶97x0612**
LDG X 04 08 31 19.5 43.0N 12.9E 2.8L
ISC X 04 09 58 00.3±.62 **42.90N**±.043 **12.9E**±.10 **5** **12 0-6**
ROM X 04 09 57 59.4 42.9N 13.0E 5 3.1D **¶97x0622**
ISC X 04 10 06 17.7±.60 **42.90N**±.038 **12.80E**±.070 **18**±8.2 **31 0-7**
LDG X 04 10 06 14.6 42.8N 13.3E 3.1L **¶97x0623**
ROM X 04 10 06 16.3 42.9N 12.9E 5 3.2D
NEIC X 04 10 06 19.9 43.15N 12.57E 10
NEIC Less reliable solution.
ISC X 04 10 38 16±1.1 **42.95N**±.088 **12.8E**±.20 **5** **7 0-1**
ROM X 04 10 38 16.0 43.0N 12.8E 5 3.0D **¶97x0628**
ISC X 04 11 19 58.2±.69 **42.98N**±.043 **12.86E**±.082 **17**±8.3 **21 0-7**
ROM X 04 11 19 57.1 43.0N 12.9E 5 3.2D **¶97x0635**
NEIC X 04 11 20 00.6 43.24N 12.58E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 04 12 13 16.4±.78 **42.95N**±.050 **12.9E**±.12 **5** **9 0-3**
ROM X 04 12 13 15.9 43.0N 12.9E 5 3.0D **¶97x0636**
ISC X 04 12 27 30±2.2 **43.8N**±.13 **10.2E**±.17 **1**±31 **6 0-1**
ROM X 04 12 27 29.6 43.9N 10.2E 5 2.3D **¶97x0640**
ISC X 04 12 43 12±1.2 **42.92N**±.037 **12.90E**±.069 **13**±9.3 **30 0-7**
ROM X 04 12 43 11.0 42.9N 12.9E 5 3.4D **¶97x0646**
LDG X 04 12 43 12.2 42.9N 13.1E 3.3L
NEIC X 04 12 43 13.1 43.11N 12.78E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 04 13 30 17.3±.81 **43.66N**±.075 **12.13E**±.074 **5** **7 0-1**
ROM X 04 13 30 16.9 43.7N 12.1E 5 3.0D **¶97x0653**
ISC X 04 15 07 20.4±.74 **42.94N**±.021 **12.87E**±.021 **6**±5.9 **3.9b**,3.4s **196 0-84**
ROM X 04 15 07 19.4 42.9N 13.0E 4 4.1D **¶97x0668**
NEIC X 04 15 07 20.7 42.93N 12.86E 10
LDG X 04 15 07 21.0 42.8N 13.1E 4.0L
PDG X 04 15 07 22.4 42.7N 12.8E 20 4.2L
MOS X 04 15 07 23.0 43.2N 13.0E 10 4.6b
EIDC X 04 15 07 24.2 43.2N 13.0E 0 4.0L,3.9b
STR X 04 15 07 26.5 43.14N 12.51E 10 4.4L
NEIC ML4.6(VIE)
NEIC Felt I=VI MCS in the epicentral area.
ISC X 04 15 14 42±1.0 **42.91N**±.057 **13.0E**±.15 **9**±13 **7 0-6**
ROM X 04 15 14 41.9 42.9N 12.9E 9 3.0D **¶97x0671**
ISC X 04 15 33 02±1.2 **42.94N**±.067 **13.0E**±.17 **6**±18 **6 0-1**
ROM X 04 15 33 01.9 42.9N 12.9E 5 3.0D **¶97x0675**
ISC X 04 15 44 03±1.0 **42.90N**±.037 **12.73E**±.066 **15**±8.4 **36 0-8**
ROM X 04 15 44 01.1 42.9N 13.0E 4 3.5D **¶97x0677**
LDG X 04 15 44 01.6 42.8N 13.1E 3.2L
ISC X 04 16 13 31.6±.68 **42.96N**±.019 **12.88E**±.020 **1**±5.1 **4.5b,4.8s 231 0-128**
LDG X 04 16 13 31.2 42.8N 13.2E 4.3L **¶97x0682**
ROM X 04 16 13 31.4 42.9N 13.0E 4 4.3D
NEIC X 04 16 13 32.8 42.96N 12.83E 10 4.2b
PDG X 04 16 13 35.2 42.3N 13.1E 15 4.6L,4.5D
BJI X 04 16 13 35.5 43.81N 13.32E 5 4.8b,5.0s
STR X 04 16 13 39.5 43.19N 12.44E 10 4.6L
EIDC X 04 16 13 39.7 43.0N 12.9E 41 4.0b,4.4L
NEIC ML4.7(FUR)
NEIC Felt I=VI MCS in the epicentral area.
ISC X 04 16 18 34±1.3 **42.93N**±.054 **12.9E**±.11 **12**±10 **18 0-7**
NEIC X 04 16 18 30.6 42.80N 13.15E 10 **¶97x0684**
ROM X 04 16 18 33.3 42.9N 12.9E 5 3.3D
LDG X 04 16 18 34.7 42.8N 13.0E 3.1L
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 04 16 31 16.8±.90 **42.90N**±.046 **12.9E**±.12 **7**±10 **11 0-3**
ROM X 04 16 31 16.1 42.9N 12.9E 5 3.1D **¶97x0686**
ISC X 04 17 09 02.9±.78 **42.91N**±.048 **13.0E**±.13 **5** **10 0-1**
ROM X 04 17 09 02.3 42.9N 13.0E 5 3.2D **¶97x0693**
ISC X 04 17 30 18.7±.82 **42.91N**±.043 **12.9E**±.11 **6**±11 **11 0-6**
ROM X 04 17 30 18.1 42.9N 12.9E 7 3.3D **¶97x0695**
ISC X 04 18 47 47.4±.74 **42.93N**±.021 **12.90E**±.022 **10**±5.7 **4.2b**,3.7s **190 0-75**
ROM X 04 18 47 46.6 42.9N 13.0E 5 4.3D **¶97x0705**
LDG X 04 18 47 46.9 43.0N 13.3E 3.9L
NEIC X 04 18 47 47.3 42.93N 12.90E 10
EIDC X 04 18 47 48.4 42.9N 13.2E 0 4.0b,4.2L
PDG X 04 18 47 49.5 42.5N 13.0E 15 4.1L
STR X 04 18 47 53.9 43.14N 12.47E 10 4.3L
NEIC ML4.5(VIE)
NEIC Felt I=VI MCS in the epicentral area.
ISC X 04 19 12 37.5±.65 **43.05N**±.038 **12.81E**±.066 **17**±7.4 **33 0-8**
ROM X 04 19 12 36.2 43.1N 12.9E 5 3.5D **¶97x0709**
NEIC X 04 19 12 37.1 43.13N 12.78E 10
LDG X 04 19 12 39.8 43.0N 12.7E 2.9L
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 04 19 39 45.6±.67 **42.99N**±.042 **12.84E**±.073 **16**±8.5 **25 0-7**
ROM X 04 19 39 44.1 43.0N 13.0E 5 3.3D **¶97x0713**
LDG X 04 19 39 44.3 42.8N 13.1E 3.1L
NEIC X 04 19 39 46.5 43.10N 12.70E 10
NEIC Less reliable solution.
ISC X 04 20 05 32.6±.92 **43.10N**±.042 **12.75E**±.075 **15**±7.2 **27 0-8**
LDG X 04 20 05 28.1 42.8N 13.3E 3.1L **¶97x0716**
ROM X 04 20 05 31.7 43.1N 12.8E 5 3.1D
NEIC X 04 20 05 33.4 43.20N 12.60E 10
NEIC Less reliable solution.
ISC X 04 21 59 30.9±.62 **42.91N**±.040 **13.0E**±.11 **5** **13 0-6**
ROM X 04 21 59 30.0 42.9N 13.0E 5 3.2D **¶97x0743**
ISC X 04 23 09 48.1±.66 **42.95N**±.041 **12.85E**±.079 **16**±8.3 **25 0-7**
LDG X 04 23 09 46.3 42.8N 13.2E 2.8L **¶97x0757**
ROM X 04 23 09 46.6 42.9N 12.9E 4 3.3D
NEIC X 04 23 09 49.9 43.16N 12.65E 10
NEIC Less reliable solution.
ISC X 04 23 22 05±1.1 **42.90N**±.052 **13.0E**±.14 **1**±15 **9 0-1**
ROM X 04 23 22 04.3 42.9N 13.0E 5 3.2D **¶97x0760**
ISC X 04 23 50 58±1.2 **43.08N**±.058 **12.8E**±.14 **8**±12 **8 0-1**
ROM X 04 23 50 58.1 43.1N 12.8E 8 3.0D **¶97x0763**
ISC X 04 23 52 06±1.1 **42.95N**±.036 **12.89E**±.063 **14**±8.6 **39 0-8**
NEIC X 04 23 52 04.2 42.88N 13.01E 10 **¶97x0764**
ROM X 04 23 52 05.1 43.0N 13.0E 4 3.6D
LDG X 04 23 52 06.7 42.9N 13.0E 2.9L
NEIC Less reliable solution.
ISC X 05 00 18 33.9±.66 **42.93N**±.042 **12.80E**±.085 **17**±9.0 **24 0-7**
ROM X 05 00 18 32.5 42.9N 13.0E 4 3.4D **¶97x0766**
LDG X 05 00 18 33.2 42.9N 13.1E 3.0L
NEIC X 05 00 18 36.2 43.21N 12.56E 10
NEIC Less reliable solution.
ISC X 05 01 05 05±1.0 **43.04N**±.058 **12.9E**±.14 **5** **7 0-1**
ROM X 05 01 05 05.0 43.1N 12.9E 5 3.0D **¶97x0773**
ISC X 05 01 31 03.4±.60 **42.99N**±.041 **12.9E**±.10 **5** **14 0-6**
ROM X 05 01 31 02.5 43.0N 12.9E 5 3.2D **¶97x0779**
ISC X 05 02 50 32.7±.78 **43.63N**±.057 **12.16E**±.064 **13**±6.5 **26 0-7**
NEIC X 05 02 50 27.3 43.47N 12.61E 10 **¶97x0784**
LDG X 05 02 50 31.7 43.4N 12.4E 2.5L
ROM X 05 02 50 32.4 43.6N 12.2E 5 3.1D
NEIC Poor solution.
ISC X 05 02 59 06±1.1 **43.61N**±.087 **12.18E**±.078 **11**±7.6 **17 0-6**
NEIC X 05 02 59 00.9 43.51N 12.62E 10 **¶97x0785**
LDG X 05 02 59 01.0 43.3N 12.9E 2.6L
NEIC Poor solution.
ISC X 05 03 12 43.5±.66 **43.04N**±.041 **12.84E**±.077 **16**±8.1 **28 0-8**
ROM X 05 03 12 42.2 43.1N 12.9E 5 3.3D **¶97x0786**
LDG X 05 03 12 43.3 42.8N 13.0E 2.8L
NEIC X 05 03 12 45.2 43.10N 12.58E 10
NEIC Less reliable solution.
ISC X 05 03 19 17.8±.84 **43.64N**±.061 **12.18E**±.068 **12**±7.0 **20 0-6**
NEIC X 05 03 19 12.8 43.55N 12.63E 10 **¶97x0788**
LDG X 05 03 19 18.3 43.5N 12.3E 2.5L
NEIC Poor solution.
ISC X 05 05 29 02.9±.73 **43.58N**±.039 **12.12E**±.041 **12**±5.2 **66 0-8**
NEIC X 05 05 29 01.1 43.46N 12.19E 10 **¶97x0807**
ROM X 05 05 29 02.6 43.6N 12.2E 5 3.3D
LDG X 05 05 29 02.7 43.5N 12.3E 3.2L
NEIC ML3.2(VIE).

Agency		Origin Time mo d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**05 05 32 30.5**±.68	**43.03N**±.052	**12.8E**±.11	**19**±8.4		**21**	**0-7**
NEIC	X	05 05 32 25.0	42.99N	13.21E	10			¶**97x0809**
LDG	X	05 05 32 28.3	42.9N	13.1E		2.8L		
ROM	X	05 05 32 29.8	43.0N	12.8E	5	3.2D		
NEIC	Poor solution.							
ISC	**X**	**05 05 46 20.0**±.66	**43.64N**±.061	**12.15E**±.076	**16**±8.9		**19**	**0-6**
NEIC	X	05 05 46 17.6	43.59N	12.27E	10			¶**97x0810**
LDG	X	05 05 46 20.9	43.5N	12.2E		2.5L		
NEIC	Poor solution.							
ISC	**X**	**05 06 50 05.6**±.66	**42.90N**±.043	**12.86E**±.089	**18**±9.4		**25**	**0-7**
ROM	X	05 06 50 03.8	42.9N	13.0E	5	3.4D		¶**97x0820**
LDG	X	05 06 50 04.5	42.9N	13.2E		3.0L		
NEIC	X	05 06 50 07.1	43.13N	12.68E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	**X**	**05 08 30 03.8**±.68	**42.94N**±.042	**12.87E**±.084	**18**±8.1		**25**	**0-7**
LDG	X	05 08 30 01.4	42.8N	13.3E		3.0L		¶**97x0833**
ROM	X	05 08 30 02.6	42.9N	12.9E	5	3.6D		
NEIC	X	05 08 30 05.4	43.15N	12.68E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	**X**	**05 08 54 39.2**±.79	**42.91N**±.036	**12.88E**±.073	**8**±7.3		**27**	**0-7**
ROM	X	05 08 54 38.5	42.9N	13.0E	5	3.4D		¶**97x0838**
LDG	X	05 08 54 38.8	42.9N	13.3E		3.0L		
NEIC	X	05 08 54 42.3	43.13N	12.64E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	**X**	**05 09 01 57**±1.2	**42.99N**±.064	**13.0E**±.15	**0**±16		**7**	**0-1**
ROM	X	05 09 01 56.8	43.0N	13.0E	5	3.1D		¶**97x0839**
ISC	**X**	**05 09 36 20.3**±.68	**43.02N**±.040	**12.83E**±.074	**17**±7.7		**28**	**0-7**
LDG	X	05 09 36 18.3	42.8N	13.1E		3.2L		¶**97x0844**
ROM	X	05 09 36 19.2	43.0N	12.9E	7	3.5D		
NEIC	X	05 09 36 19.4	43.03N	12.81E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	**X**	**05 10 10 21**±1.0	**43.04N**±.057	**12.9E**±.13	**1**±14		**8**	**0-3**
ROM	X	05 10 10 20.7	43.1N	12.9E	6	3.0D		¶**97x0849**
ISC	**X**	**05 10 22 12.8**±.65	**43.65N**±.029	**12.17E**±.033	**10**±5.0	4.0b	**90**	**0-71**
NEIC	X	05 10 22 10.7	43.47N	12.27E	10			¶**97x0850**
ROM	X	05 10 22 12.7	43.6N	12.2E	4	3.5D		
STR	X	05 10 22 13.6	43.59N	12.28E	10	3.9L		
LDG	X	05 10 22 13.6	43.5N	12.3E		3.5L		
EIDC	X	05 10 22 16.1	43.9N	12.4E	0	3.6L,3.8b		
NEIC	M_{L}3.7(VIE)							
ISC	**X**	**05 10 47 42.4**±.97	**42.93N**±.037	**12.86E**±.063	**6**±8.0		**35**	**0-7**
ROM	X	05 10 47 40.9	42.9N	13.0E	4	3.6D		¶**97x0852**
LDG	X	05 10 47 42.1	42.8N	13.2E		3.0L		
NEIC	X	05 10 47 43.4	43.03N	12.84E	10			
NEIC	Felt I=V MCS in the epicentral area.							
ISC	**X**	**05 11 56 09.6**±.86	**43.08N**±.054	**12.9E**±.11	**6**		**7**	**0-3**
ROM	X	05 11 56 09.4	43.1N	12.8E	6	3.0D		¶**97x0862**
ISC	**X**	**05 13 25 57.2**±.67	**42.97N**±.046	**12.9E**±.11	**5**		**11**	**0-4**
ROM	X	05 13 25 56.7	43.0N	12.9E	5	3.2D		¶**97x0870**
ISC	**X**	**05 15 28 05.0**±.83	**42.94N**±.025	**12.88E**±.029	**4**±6.8	3.5b	**109**	**0-71**
ROM	X	05 15 28 03.8	42.9N	13.0E	4	3.9D		¶**97x0881**
LDG	X	05 15 28 05.0	42.8N	13.1E		3.5L		
NEIC	X	05 15 28 05.6	42.92N	12.85E	10			
EIDC	X	05 15 28 08.3	43.1N	13.2E	0	3.8L,3.4b		
PDG	X	05 15 28 11.1	42.4N	13.4E	15	3.6L		
STR	X	05 15 28 21.6	43.55N	11.63E	10	3.7L		
NEIC	M_{L}4.1(VIE)							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	**X**	**05 15 38 05**±1.2	**43.02N**±.038	**12.91E**±.073	**14**±9.0		**28**	**0-7**
LDG	X	05 15 38 03.7	42.9N	13.2E		3.1L		¶**97x0882**
ROM	X	05 15 38 04.4	43.0N	12.9E	8	3.6D		
NEIC	X	05 15 38 05.8	43.13N	12.82E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	**X**	**05 17 58 42.9**±.65	**42.89N**±.042	**13.0E**±.11	**5**		**11**	**0-3**
ROM	X	05 17 58 42.2	42.9N	13.0E	5	3.1D		¶**97x0900**
ISC	**X**	**05 20 09 13.4**±.87	**42.91N**±.034	**12.92E**±.054	**3**±7.8		**38**	**0-8**
ROM	X	05 20 09 12.6	42.9N	13.0E	5	3.5D		¶**97x0924**
NEIC	X	05 20 09 14.0	42.88N	12.95E	10			
LDG	X	05 20 09 14.4	42.9N	13.3E		3.2L		
NEIC	M_{L}3.5(VIE), Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	**X**	**05 21 13 32**±1.3	**42.98N**±.049	**12.90E**±.086	**13**±9.6		**20**	**0-7**
ROM	X	05 21 13 31.6	43.0N	12.9E	5	3.2D		¶**97x0936**
LDG	X	05 21 13 32.4	42.9N	13.2E		2.7L		
NEIC	X	05 21 13 35.0	43.20N	12.68E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=III MCS in the epicentral area.							
ISC	**X**	**06 01 21 28.7**±.83	**42.90N**±.054	**13.0E**±.14	**5**		**9**	**0-6**
ROM	X	06 01 21 28.1	42.9N	13.0E	5	3.0D		¶**97x0962**
ISC	**X**	**06 01 51 13.8**±.82	**42.95N**±.034	**12.78E**±.061	**3**±7.3		**36**	**0-8**
ROM	X	06 01 51 12.9	42.9N	13.0E	5	3.3D		¶**97x0966**
LDG	X	06 01 51 13.2	42.8N	13.2E		2.9L		
NEIC	X	06 01 51 14.4	42.94N	12.79E	10			
NEIC	Felt I=III MCS in the epicentral area.							
ISC	**X**	**06 03 34 37.9**±.88	**42.99N**±.042	**12.82E**±.078	**9**±7.3		**23**	**0-7**
ROM	X	06 03 34 36.8	43.0N	12.9E	4	3.3D		¶**97x0977**
LDG	X	06 03 34 39.8	42.9N	12.9E		3.1L		
NEIC	X	06 03 34 40.2	43.06N	12.60E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=III MCS in the epicentral area.							
ISC	**X**	**06 04 23 03**±1.2	**43.01N**±.064	**13.0E**±.14	**3**±15		**7**	**0-1**
ROM	X	06 04 23 02.6	43.0N	12.9E	5	3.1D		¶**97x0986**
ROM	**X**	**06 05 22 51.7**	**42.0N**	**13.9E**	**10**	**2.2D**		¶**97x0999**
ISC	**X**	**06 06 11 13.4**±.82	**42.99N**±.055	**12.9E**±.12	**5**		**8**	**0-3**
ROM	X	06 06 11 12.7	43.0N	12.9E	5	3.2D		¶**97x1003**
ISC	**X**	**06 08 53 14**±1.1	**43.02N**±.061	**12.9E**±.13	**7**±13		**8**	**0-1**
ROM	X	06 08 53 13.1	43.0N	12.9E	2	3.2D		¶**97x1022**
ISC	**X**	**06 11 07 43**±1.1	**43.00N**±.062	**12.9E**±.14	**3**±14		**8**	**0-1**
ROM	X	06 11 07 42.3	43.0N	12.9E	3	3.0D		¶**97x1032**
ISC	**X**	**06 16 48 41.8**±.61	**42.92N**±.035	**12.88E**±.056	**16**±8.1		**37**	**0-8**
ROM	X	06 16 48 40.3	42.9N	13.0E	4	3.4D		¶**97x1083**
LDG	X	06 16 48 41.3	42.8N	13.1E		3.1L		
NEIC	X	06 16 48 41.3	42.95N	12.84E	10			
NEIC	M_{L}3.6(VIE)							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	**X**	**06 20 08 12.9**±.60	**42.93N**±.041	**12.93E**±.099	**5**		**13**	**0-5**
ROM	X	06 20 08 12.0	42.9N	13.0E	5	3.4D		¶**97x1113**
ISC	**X**	**06 23 24 52.1**±.51	**43.05N**±.014	**12.83E**±.014	**4**±3.6	**5.2b,5.3s**	**535**	**0-150**
LDG	X	06 23 24 51.2	42.9N	13.2E		5.1L		¶**97x1132**
ROM	X	06 23 24 51.5	43.0N	12.9E	3	5.4D		
LEDBW	X	06 23 24 51.6	42.49N	13.55E	10	5.3L		
BJI	X	06 23 24 52.4	42.95N	12.76E	12	5.4b,5.7s		
NEIC	X	06 23 24 52.5	43.05N	12.84E	10	5.3b,5.2s		
EIDC	X	06 23 24 52.5	43.0N	12.9E	0	4.9b,5.3s		
MOS	X	06 23 24 52.6	43.0N	12.8E	10	5.9b,5.2s		
STR	X	06 23 24 57.5	43.17N	12.64E	10	5.6L		
HRVD	X	06 23 24 58.1±.4	42.90N±.06	12.55E±.09	15			
PDG	X	06 23 25 04.6	42.8N	14.0E	15	5.2L,5.2D		
NEIC	M_{L}5.8(VIE), Mw5.5(HRV). Casualties I=VIII MSK.							
NEIC	ML 5.5 (FUR), 5.3 (FBB). Four people injured and additional damage I=VIII MCS in the Assisi, Foligno, Gualdo Tadino and Nocera Umbra areas. Felt from Arezzo to parts of Lazio.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c45; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.52±.10; $M_{\theta\theta}$0.63±.09; $M_{\phi\phi}$0.90±.11; $M_{r\theta}$1.30±.31; $M_{r\phi}$−1.00±.38; $M_{\theta\phi}$−0.98±.12. Principal Axes: T 2.41,Plg22°,Azm46°; N −0.19, Plg7°,Azm313°; P −2.22,Plg67°,Azm207°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S149°,δ23°,λ−73°. NP2:ϕ_S310°,δ68°,λ−97°.							
ISC	**X**	**06 23 29 05**±1.1	**43.03N**±.062	**12.9E**±.15	**8**		**6**	**0-1**
ROM	X	06 23 29 04.8	43.0N	12.9E	8	3.3D		¶**97x1133**
ISC	**X**	**06 23 29 58**±1.1	**43.02N**±.062	**12.9E**±.15	**5**±15		**7**	**0-1**
ROM	X	06 23 29 57.0	43.0N	12.9E	3	3.4D		¶**97x1134**
ISC	**X**	**06 23 34 05**±1.0	**42.99N**±.069	**12.8E**±.16	**5**		**5**	**0-1**
ROM	X	06 23 34 04.3	43.0N	12.8E	5	3.1D		¶**97x1135**
ISC	**X**	**06 23 45 54.8**±.60	**43.00N**±.036	**12.81E**±.058	**19**±7.0		**47**	**0-8**
ROM	X	06 23 45 53.5	43.0N	12.9E	6	3.3D		¶**97x1138**
LDG	X	06 23 45 53.5	42.9N	13.1E		3.3L		
NEIC	X	06 23 45 53.8	43.11N	12.82E	10			
NEIC	M_{L}3.8(VIE), Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	**X**	**06 23 56 27.3**±.77	**43.00N**±.029	**12.64E**±.044	**8**±6.5		**69**	**0-8**
LDG	X	06 23 56 23.3	42.8N	13.3E		3.2L		¶**97x1139**
ROM	X	06 23 56 26.6	43.0N	12.8E	9	3.3D		
NEIC	X	06 23 56 28.1	43.01N	12.67E	10			
NEIC	M_{L}3.5(VIE)							
ISC	**X**	**07 00 28 44.8**±.78	**43.01N**±.044	**13.0E**±.12	**5**		**11**	**0-6**
ROM	X	07 00 28 44.4	43.0N	12.9E	5	3.3D		¶**97x1144**
ISC	**X**	**07 00 32 23.7**±.58	**43.00N**±.035	**12.79E**±.058	**17**±6.9		**44**	**0-8**
LDG	X	07 00 32 21.0	43.0N	13.3E		3.2L		¶**97x1145**
ROM	X	07 00 32 22.4	43.0N	12.9E	5	3.5D		
NEIC	X	07 00 32 23.0	42.93N	12.73E	10			
NEIC	M_{L}3.6(VIE), Less reliable solution.							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	**X**	**07 01 18 02**±1.1	**42.95N**±.039	**12.79E**±.064	**14**±8.3		**34**	**0-8**
ROM	X	07 01 18 00.5	43.0N	12.9E	6	3.1D		¶**97x1151**
NEIC	X	07 01 18 00.7	42.84N	12.78E	10			
LDG	X	07 01 18 01.0	42.7N	13.0E		3.0L		
NEIC	Felt I=III MCS in the epicentral area.							
ISC	**X**	**07 01 24 33.7**±.70	**42.99N**±.020	**12.82E**±.021	**9**±5.4	**4.2b**,3.5s	**198**	**0-81**
ROM	X	07 01 24 32.6	43.0N	12.9E	4	3.9D		¶**97x1153**
LDG	X	07 01 24 33.3	42.9N	13.1E		4.0L		
MOS	X	07 01 24 33.5	43.0N	12.9E	10	5.0b		
NEIC	X	07 01 24 33.9	43.01N	12.78E	10	4.4b		
EIDC	X	07 01 24 34.7	43.0N	13.0E	0	4.1b,4.1L		
PDG	X	07 01 24 35.1	42.7N	12.7E	15	4.2L		
STR	X	07 01 24 36.8	43.05N	12.72E	10	4.5L		
NEIC	M_{L}4.6(VIE), M_{L}4.2(FUR)							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	**X**	**07 01 58 10.0**±.81	**42.99N**±.034	**12.82E**±.066	**6**±7.3		**34**	**0-8**
ROM	X	07 01 58 09.5	43.0N	12.9E	5	3.2D		¶**97x1155**
LDG	X	07 01 58 09.5	42.8N	13.1E		3.0L		
NEIC	X	07 01 58 11.0	42.96N	12.72E	10			
ISC	**X**	**07 02 30 27**±1.2	**42.97N**±.055	**13.0E**±.14	**1**±14		**9**	**0-1**
ROM	X	07 02 30 26.7	43.0N	12.9E	5	3.1D		¶**97x1159**
ISC	**X**	**07 02 39 15.3**±.79	**43.01N**±.028	**12.88E**±.032	**5**±6.7		**101**	**0-9**
LDG	X	07 02 39 14.2	42.8N	13.2E		3.5L		¶**97x1161**
ROM	X	07 02 39 14.7	43.0N	12.9E	6	3.7D		
NEIC	X	07 02 39 14.9	42.96N	12.97E	10			
STR	X	07 02 39 15.9	42.93N	13.19E	11	4.1L		
NEIC	M_{L}4.2(VIE)							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	**X**	**07 03 01 36.0**±.81	**43.03N**±.039	**12.86E**±.065	**8**±7.1		**26**	**0-7**
NEIC	X	07 03 01 34.0	42.95N	13.02E	10			¶**97x1163**
ROM	X	07 03 01 35.8	43.0N	12.9E	5	3.3D		
LDG	X	07 03 01 37.0	42.9N	13.0E		2.8L		
NEIC	Poor solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	**X**	**07 03 05 10.1**±.79	**42.99N**±.058	**12.9E**±.13	**4**		**8**	**0-1**
ROM	X	07 03 05 09.1	43.0N	12.9E	4	3.0D		¶**97x1165**
ISC	**X**	**07 03 30 08.5**±.90	**42.99N**±.039	**12.80E**±.062	**7**±7.4		**33**	**0-8**
ROM	X	07 03 30 07.1	43.0N	13.0E	5	3.3D		¶**97x1169**
NEIC	X	07 03 30 08.8	43.00N	12.80E	10			
LDG	X	07 03 30 09.8	43.0N	13.0E		3.0L		
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	**X**	**07 03 39 54.0**±.92	**43.06N**±.051	**12.9E**±.13	**2**		**8**	**0-1**
ROM	X	07 03 39 53.2	43.1N	12.9E	2	3.0D		¶**97x1171**
ISC	**X**	**07 03 43 45.2**±.78	**42.99N**±.030	**12.85E**±.042	**6**±6.7	4.0b	**64**	**0-27**
NEIC	X	07 03 43 41.3	42.69N	13.06E	10			¶**97x1173**
ROM	X	07 03 43 44.9	43.0N	12.9E	9	3.4D		
LDG	X	07 03 43 46.7	43.0N	13.0E		3.3L		
EIDC	X	07 03 43 53.8	43.6N	13.2E	0	3.7L,4.1b		
NEIC	M_{L}3.8(VIE), Less reliable solution.							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	**X**	**07 04 25 55.0**±.79	**42.98N**±.024	**12.86E**±.028	**9**±6.4		**117**	**0-20**
ROM	X	07 04 25 53.9	43.0N	12.9E	4	3.7D		¶**97x1178**
LDG	X	07 04 25 54.2	42.9N	13.2E		3.6L		
NEIC	X	07 04 25 55.4	42.99N	12.82E	10			
EIDC	X	07 04 25 56.9	43.1N	13.0E	0	4.0L		
STR	X	07 04 26 01.5	43.15N	12.44E	10	4.0L		
NEIC	M_{L}3.9(VIE)							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	**X**	**07 04 53 17.8**±.85	**43.04N**±.029	**12.81E**±.039	**10**±6.8		**72**	**0-9**
NEIC	X	07 04 53 16.3	42.98N	12.82E	10			¶**97x1184**
ROM	X	07 04 53 16.8	43.1N	12.9E	6	3.6D		
STR	X	07 04 53 16.8	42.93N	13.09E	10	4.0L		
LDG	X	07 04 53 18.8	43.0N	12.9E		3.5L		

NEIC M_L3.9(VIE), Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.
ISC X 07 05 09 56.0±.67 43.01N±.020 12.84E±.020 4±5.1 4.5b,4.3s 216 0-87
ROM X 07 05 09 55.4 43.0N 12.9E 5 4.1D ¶97x1186
NEIC X 07 05 09 56.7 43.01N 12.85E 10 4.5b
MOS X 07 05 09 56.8 43.0N 12.9E 10 5.1b,3.7s
BJI X 07 05 09 57.1 43.43N 11.98E 32 5.0b
EIDC X 07 05 09 57.4 43.0N 13.0E 0 4.2b,4.1s
LDG X 07 05 09 58.3 42.9N 12.9E 4.2L
STR X 07 05 09 59.5 42.99N 12.74E 10 4.6L
PDG X 07 05 09 59.6 42.5N 12.8E 15 4.4L
NEIC $M_{L4.8}$(VIE), $M_{L4.7}$(FUR)
NEIC Felt I=VI MCS in the epicentral area.
ISC X 07 05 14 25±1.4 43.03N±.056 12.9E±.15 4±14 8 0-1
ROM X 07 05 14 24.1 43.0N 12.9E 5 3.2D ¶97x1187
ISC X 07 07 37 44±1.1 42.99N±.071 12.9E±.15 6±15 6 0-1
ROM X 07 07 37 43.2 43.0N 12.9E 5 3.0D ¶97x1201
ISC X 07 07 51 15.4±.79 42.97N±.051 12.9E±.12 5 8 0-3
ROM X 07 07 51 14.4 43.0N 13.0E 5 3.0D ¶97x1206
ISC X 07 08 22 23.6±.87 43.02N±.057 12.9E±.13 5 8 0-1
ROM X 07 08 22 23.0 43.0N 12.9E 5 3.0D ¶97x1215
ISC X 07 10 47 05.5±.98 43.10N±.058 12.9E±.10 9±12 9 0-3
ROM X 07 10 47 05.5 43.1N 12.8E 7 3.0D ¶97x1232
ISC X 07 11 46 10.7±.98 43.03N±.049 12.9E±.11 6±11 10 0-3
ROM X 07 11 46 10.0 43.0N 12.9E 4 3.1D ¶97x1239
ISC X 07 19 06 23.4±.87 43.01N±.030 12.81E±.046 6±7.0 59 0-8
LDG X 07 19 06 21.2 42.9N 13.3E 3.4L ¶97x1286
ROM X 07 19 06 22.4 43.0N 12.9E 5 3.5D
NEIC X 07 19 06 23.9 42.99N 12.77E 10
STR X 07 19 06 30.6 43.19N 12.41E 11 3.7L
NEIC $M_{L3.7}$(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 07 19 56 07.9±.83 42.99N±.024 12.87E±.027 8±6.6 3.9b 131 0-75
ROM X 07 19 56 06.5 43.0N 13.0E 3 3.8D ¶97x1292
LDG X 07 19 56 07.0 42.8N 13.2E 3.8L
NEIC X 07 19 56 08.1 42.98N 12.86E 10 4.2b
EIDC X 07 19 56 10.6 43.0N 13.4E 0 3.9L,3.7b
STR X 07 19 56 13.3 43.08N 12.76E 10 4.0L
NEIC $M_{L4.2}$(VIE), $M_{L4.0}$(FUR)
NEIC Felt I=V MCS in the epicentral area.
ISC X 07 20 02 51.4±.90 42.95N±.039 12.75E±.072 7±7.7 26 0-7
LDG X 07 20 02 50.0 42.8N 13.1E 3.3L ¶97x1293
ROM X 07 20 02 50.1 43.0N 12.9E 3 3.3D
NEIC X 07 20 02 51.3 42.89N 12.74E 10
NEIC Poor solution.
NEIC ML 3.2 (VIE). Felt I=IV MCS in the epicentral area.
ISC X 08 02 56 00±1.0 42.99N±.059 12.9E±.14 5±12 8 0-1
ROM X 08 02 55 59.6 43.0N 12.9E 5 3.1D ¶97x1343
ISC X 08 03 29 03±1.2 43.01N±.053 12.85E±.092 13±9.1 15 0-7
ROM X 08 03 29 01.5 43.0N 12.9E 3 3.1D ¶97x1347
NEIC X 08 03 29 02.6 43.09N 12.82E 10
LDG X 08 03 29 04.0 42.9N 12.9E 2.8L
NEIC Poor solution.
ISC X 08 06 15 44.0±.86 42.96N±.059 12.8E±.13 5 7 0-3
ROM X 08 06 15 42.9 43.0N 12.9E 5 3.0D ¶97x1357
ISC X 08 06 47 22.8±.82 42.95N±.027 12.80E±.032 7±6.7 89 0-8
LDG X 08 06 47 20.6 42.8N 13.3E 3.7L ¶97x1360
ROM X 08 06 47 21.5 43.0N 12.9E 5 3.7D
NEIC X 08 06 47 23.3 42.93N 12.75E 10
PDG X 08 06 47 27.3 43.0N 13.0E 20 3.8L
NEIC $M_{L4.0}$(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 08 07 22 09.6±.91 42.96N±.056 12.9E±.14 5 8 0-3
ROM X 08 07 22 08.9 43.0N 12.9E 5 3.0D ¶97x1368
ISC X 08 08 32 34±1.2 42.97N±.073 13.0E±.17 2±23 6 0-1
ROM X 08 08 32 33.8 43.0N 13.0E 5 3.0D ¶97x1375
ISC X 08 10 25 16.3±.47 42.97N±.034 12.91E±.086 10 3.5b 23 0-71
ROM X 08 10 25 15.5 43.0N 12.9E 8 3.3D ¶97x1393
NEIC X 08 10 25 20.1 43.26N 13.30E 10
EIDC X 08 10 25 21.1 43.2N 12.8E 0 3.7L,3.4b
NEIC M_L3.5(VIE), Poor solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 08 17 12 43±1.6 43.07N±.069 13.0E±.15 15±16 7 0-4
ROM X 08 17 12 42.7 43.0N 12.9E 5 3.0D ¶97x1443
ISC X 08 19 41 45.7±.90 43.05N±.040 12.81E±.076 12±7.2 21 0-7
NEIC X 08 19 41 42.4 42.71N 13.02E 10 ¶97x1463
LDG X 08 19 41 44.9 42.8N 13.1E 2.7L
ROM X 08 19 41 45.4 43.1N 12.8E 10 3.0D
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 08 20 31 09.0±.55 42.89N±.037 12.9E±.10 4 16 0-6
ROM X 08 20 31 08.0 42.9N 13.0E 4 3.1D ¶97x1468
ISC X 08 21 05 12.7±.68 43.57N±.040 12.09E±.050 7±6.0 32 0-6
NEIC X 08 21 05 12.5 43.50N 12.08E 10 ¶97x1476
ROM X 08 21 05 12.6 43.6N 12.2E 6 3.2D
LDG X 08 21 05 14.8 43.5N 12.1E 2.8L
NEIC M_L3.0(VIE), Less reliable solution.
ISC X 08 21 18 25.2±.83 42.96N±.048 12.9E±.14 5 10 0-4
ROM X 08 21 18 24.5 43.0N 12.9E 5 3.0D ¶97x1479
ISC X 09 03 46 56.6±.80 42.98N±.056 12.83E±.099 17±10 13 0-7
LDG X 09 03 46 54.1 42.8N 13.2E 3.2L ¶97x1517
ROM X 09 03 46 55.3 43.0N 12.9E 3 3.2D
ISC X 09 05 31 52.2±.89 43.01N±.052 12.9E±.13 3 9 0-6
ROM X 09 05 31 51.4 43.0N 12.9E 3 3.3D ¶97x1532
ISC X 09 05 38 50.7±.80 42.93N±.037 12.82E±.071 6±7.5 26 0-7
ROM X 09 05 38 49.4 43.0N 12.9E 3 3.3D ¶97x1534
NEIC X 09 05 38 52.7 43.07N 12.69E 10
LDG X 09 05 38 54.3 43.0N 12.7E 3.0L
NEIC M_D3.3(ROM), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 09 10 34 17.7±.81 43.14N±.034 12.76E±.057 11±6.6 47 0-7
NEIC X 09 10 34 15.3 42.96N 12.85E 10 ¶97x1570
ROM X 09 10 34 16.9 43.2N 12.8E 7 3.5D
LDG X 09 10 34 18.0 43.1N 12.9E 3.6L
NEIC M_L3.8(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 09 14 58 23.5±.59 43.02N±.043 12.78E±.078 10 18 0-7
ROM X 09 14 58 22.9 43.0N 12.8E 5 3.3D ¶97x1596
NEIC X 09 14 58 30.0 43.27N 12.11E 10
LDG X 09 14 58 31.0 43.1N 12.2E 3.3L
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 09 15 05 36.0±.68 42.92N±.042 12.9E±.12 5 13 0-7
ROM X 09 15 05 35.1 42.9N 13.0E 5 3.3D ¶97x1600
ISC X 09 18 02 49±1.1 42.96N±.041 12.82E±.073 12±8.9 25 0-7
ROM X 09 18 02 47.7 43.0N 12.9E 2 3.4D ¶97x1614
LDG X 09 18 02 47.8 42.8N 13.1E 3.2L
NEIC X 09 18 02 50.3 43.07N 12.68E 10
NEIC M_L3.3(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 09 18 11 30.2±.79 42.89N±.028 12.89E±.034 6±6.5 3.5b 94 0-75
ROM X 09 18 11 29.4 42.9N 12.9E 5 3.8D ¶97x1615
LDG X 09 18 11 30.0 42.8N 13.2E 3.6L
NEIC X 09 18 11 30.2 42.85N 12.87E 10
EIDC X 09 18 11 32.3 42.9N 13.3E 0 3.7b,3.9L
STR X 09 18 11 34.7 42.90N 12.90E 10 3.9L
NEIC $M_{L3.9}$(VIE)
NEIC ML 3.8 (FUR). Felt I=V MCS in the epicentral area.
ISC X 09 19 52 30.8±.96 43.00N±.038 12.78E±.069 15±7.7 25 0-7
ROM X 09 19 52 29.7 43.0N 12.9E 5 3.2D ¶97x1633
NEIC X 09 19 52 30.0 42.98N 12.75E 10
LDG X 09 19 52 30.9 42.9N 12.9E 2.8L
NEIC M_L2.9(VIE), Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.
ISC X 10 01 17 41.3±.62 43.01N±.047 12.68E±.099 17±8.0 23 0-7
LDG X 10 01 17 41.2 42.9N 12.8E 2.7L ¶97x1674
NEIC X 10 01 17 41.6 43.09N 12.56E 10
NEIC M_D2.9(ROM), Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.
ISC X 10 06 40 47.1±.87 42.92N±.055 12.9E±.14 5 8 0-1
ROM X 10 06 40 46.6 42.9N 12.9E 5 3.2D ¶97x1708
ISC X 10 06 44 31.9±.73 43.55N±.045 12.10E±.054 4±6.6 33 0-6
ROM X 10 06 44 31.6 43.6N 12.2E 5 3.3D ¶97x1709
NEIC X 10 06 44 33.1 43.57N 12.01E 10
LDG X 10 06 44 33.8 43.5N 12.2E 3.2L
NEIC M_L3.2(VIE), Less reliable solution.
ISC X 10 08 01 08±1.1 43.02N±.064 12.9E±.13 2±16 8 0-3
ROM X 10 08 01 06.9 43.0N 12.9E 2 3.0D ¶97x1717
ISC X 10 08 11 18.6±.97 42.98N±.049 12.9E±.12 4±12 10 0-3
ROM X 10 08 11 18.2 43.0N 12.9E 5 3.1D ¶97x1718
ISC X 10 14 44 34.2±.77 42.92N±.052 12.9E±.11 5 9 0-3
ROM X 10 14 44 33.3 42.9N 13.0E 5 3.1D ¶97x1763
ISC X 10 22 08 47.0±.84 42.96N±.031 12.86E±.048 8±7.0 51 0-7
NEIC X 10 22 08 44.8 42.78N 12.97E 10 ¶97x1806
LDG X 10 22 08 45.5 42.8N 13.2E 3.6L
ROM X 10 22 08 46.4 43.0N 12.9E 5 3.6D
NEIC Less reliable solution.
NEIC ML 3.6 (VIE). Felt I=V MCS in the epicentral area.
ISC X 10 22 43 54.7±.86 43.00N±.041 12.93E±.094 1±11 12 0-6
ROM X 10 22 43 54.3 43.0N 12.9E 5 3.2D ¶97x1808
ISC X 11 03 20 56.7±.76 43.05N±.027 12.75E±.027 10±6.0 107 0-21
NEIC X 11 03 20 55.6 42.98N 12.79E 10 ¶97x1839
ROM X 11 03 20 56.0 43.1N 12.8E 7 3.8D
LDG X 11 03 20 57.8 43.0N 12.9E 3.9L
PDG X 11 03 21 04.4 42.8N 13.4E 16 3.8L
NEIC $M_{L4.3}$(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 11 05 16 49±1.1 42.93N±.034 12.86E±.061 15±8.7 37 0-8
ROM X 11 05 16 48.3 42.9N 12.9E 5 3.4D ¶97x1853
LDG X 11 05 16 50.7 42.9N 12.9E 3.5L
ISC X 11 05 44 31.0±.81 42.96N±.039 12.83E±.075 5±6.5 25 0-84
ROM X 11 05 44 29.8 43.0N 13.0E 4 3.2D ¶97x1855
NEIC X 11 05 44 31.4 42.96N 12.80E 10
LDG X 11 05 44 31.7 42.8N 13.0E 3.1L
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 11 18 55 13.0±.86 43.08N±.045 12.79E±.084 10±7.1 21 0-7
ROM X 11 18 55 12.5 43.1N 12.9E 4 3.3D ¶97x1922
LDG X 11 18 55 13.8 42.9N 12.9E 3.2L
NEIC X 11 18 55 14.1 43.11N 12.64E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 11 21 26 26.4±.85 43.61N±.067 12.16E±.071 13±7.2 17 0-6
LDG X 11 21 26 28.4 43.5N 12.1E 2.8L ¶97x1943
ISC X 12 09 48 31.5±.98 43.02N±.037 12.91E±.067 12±7.5 28 0-7
ROM X 12 09 48 30.2 43.0N 13.0E 2 3.3D ¶97x2019
NEIC X 12 09 48 31.1 43.03N 12.90E 10
LDG X 12 09 48 31.3 42.9N 13.1E 3.3L
NEIC M_L3.6(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 12 11 08 35.7±.54 42.90N±.014 12.90E±.014 4±3.9 5.1b,5.0s 475 0-150
ROM X 12 11 08 35.3 42.9N 13.0E 5 4.7D ¶97x2028
BJI X 12 11 08 36.3 42.73N 12.48E 27 5.3b,5.4s
NEIC X 12 11 08 36.3 42.90N 12.90E 10 5.2b,4.9s
MOS X 12 11 08 36.5 43.0N 13.0E 10 5.7b,5.0s
LDG X 12 11 08 37.6 42.8N 13.1E 5.0L
HRVD X 12 11 08 41.6±.5 42.31N±.11 13.29E±.11 15
PDG X 12 11 08 41.9 42.7N 13.2E 11 5.1L,5.2D
EIDC X 12 11 08 42.5 43.0N 12.9E 38 4.6b,4.6L
STR X 12 11 08 45.9 43.22N 12.26E 10 5.2L
NEIC Mw5.3(HRV), M_L5.3(VIE)
NEIC ML 5.2 (FUR). Additional damage I=VII MCS in the epicentral area.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c30; Half duration: 1$\hat{0}$. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.63±.69; $M_{\theta\theta}$0.83±.71; $M_{\phi\phi}$4.79±.55; $M_{r\theta}$5.14±1.88; $M_{r\phi}$0.61±2.09; $M_{\theta\phi}$−4.90±.77. Principal Axes: T 8.55,Plg11°,Azm51°; N 0.58, Plg33°,Azm314°; P −9.13,Plg55°,Azm157°. Best double couple: $M_0$8.8×10^{16}Nm, NP1: ϕ_S175°,δ45°,λ−39°. NP2:ϕ_S295°,δ63°,λ−127°.
ISC X 12 11 12 29.8±.88 42.89N±.034 12.84E±.056 9±6.6 4.0b 47 0-81
ROM X 12 11 12 28.9 42.9N 13.0E 4 3.7D ¶97x2030
STR X 12 11 12 30.2 42.80N 13.00E 10 4.4L
LDG X 12 11 12 30.2 42.8N 13.0E 4.4L
NEIC X 12 11 12 30.8 43.01N 12.75E 10 3.9b
EIDC X 12 11 12 34.1 43.1N 13.6E 0 4.0b,4.1L
NEIC Felt I=V MCS in the epicentral area.
ISC X 12 11 14 14.4±.87 42.91N±.046 12.8E±.13 5±10 23 0-8
ROM X 12 11 14 14.2 42.9N 12.9E 5 3.7D ¶97x2031
LDG X 12 11 14 16.5 42.8N 12.8E 4.2L
STR X 12 11 14 25.2 42.96N 12.02E 10 4.4L
ISC X 12 12 08 30.5±.87 42.91N±.042 12.9E±.11 8±9.4 15 0-8
ROM X 12 12 08 30.0 42.9N 12.9E 7 3.2D ¶97x2039

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	X	**12 12 59 58.7**±.93	**42.85N**±.035	**13.10E**±.060	**4**±7.8	**3.9b**	**51**	**0-72**
ROM	X	12 12 59 58.1	42.9N	13.0E	5	3.7D		¶**97x2046**
NEIC	X	12 12 59 59.6	42.86N	13.06E	10			
EIDC	X	12 13 00 02.0	43.0N	13.4E	0	3.8b,3.9L		
NEIC		M_L4.0(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	X	**12 13 04 33**±1.5	**42.93N**±.045	**13.1E**±.10	**11**±11		**22**	**0-7**
ROM	X	12 13 04 32.8	42.9N	13.0E	5	3.0D		¶**97x2047**
LDG	X	12 13 04 32.9	42.9N	13.3E		3.3L		
NEIC	X	12 13 04 37.5	43.24N	12.69E	10			
NEIC		Single network solution.						
ISC	X	**12 17 40 10.2**±.85	**42.96N**±.042	**12.8E**±.10	**0**±12		**11**	**0-6**
ROM	X	12 17 40 09.3	43.0N	12.9E	5	3.0D		¶**97x2078**
ISC	X	**12 18 12 04.4**±.86	**42.91N**±.027	**12.94E**±.037	**3**±7.1	4.1b	**88**	**0-72**
ROM	X	12 18 12 03.3	42.9N	13.0E	2	3.8D		¶**97x2084**
LDG	X	12 18 12 05.1	42.8N	13.1E		3.7L		
NEIC	X	12 18 12 05.1	42.90N	12.95E	10			
EIDC	X	12 18 12 06.3	43.0N	13.1E	0	3.9L,3.5s		
NEIC		M_L4.3(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	X	**12 18 21 43.0**±.64	**42.91N**±.039	**13.1E**±.10	**5**		**12**	**0-6**
ROM	X	12 18 21 42.6	42.9N	13.0E	5	3.0D		¶**97x2085**
ISC	X	**12 19 47 51**±1.0	**42.87N**±.037	**12.91E**±.077	**12**±8.6		**30**	**0-7**
NEIC	X	12 19 47 48.6	42.66N	12.95E	10			¶**97x2091**
ROM	X	12 19 47 49.9	42.9N	13.0E	5	3.4D		
LDG	X	12 19 47 51.1	42.7N	13.0E		3.4L		
NEIC		M_L3.6(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**12 20 15 29.1**±.76	**42.86N**±.030	**12.89E**±.049	**9**±6.1	**4.0b**	**64**	**0-72**
ROM	X	12 20 15 28.3	42.9N	13.0E	5	3.6D		¶**97x2095**
LDG	X	12 20 15 29.0	42.8N	13.1E		3.7L		
NEIC	X	12 20 15 29.1	42.86N	12.87E	10			
EIDC	X	12 20 15 30.5	42.8N	13.3E	0	3.8b,3.6L		
NEIC		M_L4.0(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	X	**12 20 40 09.0**±.86	**42.89N**±.056	**13.0E**±.14	**5**		**9**	**0-6**
ROM	X	12 20 40 08.4	42.9N	13.0E	5	3.1D		¶**97x2100**
ISC	X	**12 21 12 01**±1.2	**42.90N**±.050	**13.1E**±.14	**4**±13		**9**	**0-6**
ROM	X	12 21 12 00.8	42.9N	13.0E	5	3.1D		¶**97x2105**
ISC	X	**12 21 31 07.7**±.67	**42.88N**±.023	**12.93E**±.025	**9**±5.2	**4.1b**,3.4s	**145**	**0-88**
BJI	X	12 21 31 03.6	42.34N	12.29E	20	4.8b		¶**97x2109**
ROM	X	12 21 31 06.5	42.9N	13.0E	5	3.9D		
LDG	X	12 21 31 07.1	42.9N	13.3E		3.9L		
NEIC	X	12 21 31 07.4	42.86N	12.97E	10	4.6b		
EIDC	X	12 21 31 08.6	42.9N	13.3E	0	3.8b,3.5s		
PDG	X	12 21 31 17.8	42.7N	13.7E	10	4.0L		
NEIC		M_L4.5(VIE), M_L4.1(FUR)						
NEIC		Felt I=IV−V MCS in the epicentral area (after KIV)						
ISC	X	**12 21 52 35.2**±.75	**42.93N**±.022	**12.92E**±.026	**4**±6.0	**4.4b**	**144**	**0-75**
ROM	X	12 21 52 34.3	42.9N	13.0E	5	3.8D		¶**97x2112**
LDG	X	12 21 52 34.8	42.8N	13.2E		3.9L		
EIDC	X	12 21 52 35.1	42.8N	12.8E	0	3.7L,3.9b		
NEIC	X	12 21 52 35.6	42.92N	12.92E	10	4.6b		
BJI	X	12 21 52 36.6	43.61N	12.80E	6	4.7b		
PDG	X	12 21 52 37.6	42.7N	12.9E	11	4.1L		
NEIC		M_L4.4(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	X	**12 22 20 57.9**±.67	**42.92N**±.044	**13.0E**±.11	**5**		**11**	**0-6**
ROM	X	12 22 20 57.5	42.9N	13.0E	5	3.1D		¶**97x2115**
ISC	X	**12 22 46 56.2**±.62	**42.91N**±.040	**13.0E**±.11	**5**		**13**	**0-6**
ROM	X	12 22 46 55.6	42.9N	13.0E	5	3.1D		¶**97x2118**
ISC	X	**12 23 33 07**±1.1	**42.90N**±.047	**13.0E**±.14	**1**±14		**9**	**0-6**
ROM	X	12 23 33 06.2	42.9N	13.0E	5	3.1D		¶**97x2125**
ISC	X	**12 23 48 51.8**±.93	**42.93N**±.034	**12.94E**±.071	**9**±7.6		**29**	**0-8**
ROM	X	12 23 48 50.8	42.9N	13.0E	4	3.2D		¶**97x2128**
LDG	X	12 23 48 52.6	42.9N	13.2E		3.1L		
NEIC	X	12 23 48 53.8	43.06N	12.78E	10			
NEIC		M_L3.2(VIE), Less reliable solution.						
NEIC		Felt I=III MCS in the epicentral area.						
ISC	X	**12 23 54 38**±1.0	**42.88N**±.036	**12.91E**±.069	**11**±8.6		**28**	**0-8**
ROM	X	12 23 54 36.6	42.9N	13.0E	5	3.0D		¶**97x2130**
NEIC	X	12 23 54 38.7	42.98N	12.82E	10			
LDG	X	12 23 54 39.6	42.9N	13.0E		3.1L		
NEIC		M_L3.3(VIE) Less reliable solution.						
ISC	X	**13 00 02 18.0**±.94	**42.92N**±.053	**13.0E**±.15	**5**		**9**	**0-6**
ROM	X	13 00 02 17.3	42.9N	13.0E	5	3.0D		¶**97x2132**
ISC	X	**13 00 16 39**±1.0	**42.88N**±.048	**13.0E**±.13	**4**±12		**10**	**0-6**
ROM	X	13 00 16 38.6	42.9N	13.0E	5	3.0D		¶**97x2134**
ISC	X	**13 02 32 34.9**±.84	**42.87N**±.055	**13.0E**±.14	**5**		**9**	**0-6**
ROM	X	13 02 32 34.2	42.9N	13.0E	5	3.1D		¶**97x2146**
ISC	X	**13 03 26 12.1**±.85	**42.97N**±.027	**12.90E**±.044	**2**±7.1	3.5b	**69**	**0-71**
ROM	X	13 03 26 11.0	43.0N	13.0E	3	3.6D		¶**97x2153**
LDG	X	13 03 26 12.3	42.9N	13.2E		3.5L		
NEIC	X	13 03 26 12.7	42.97N	12.88E	10			
EIDC	X	13 03 26 13.9	43.0N	13.5E	0	3.7L,3.4b		
NEIC		M_L4.0(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**13 04 04 47**±1.2	**42.98N**±.067	**13.0E**±.16	**2**±21		**6**	**0-1**
ROM	X	13 04 04 46.4	43.0N	13.0E	2	3.3D		¶**97x2158**
ISC	X	**13 04 17 05.3**±.80	**42.85N**±.032	**12.93E**±.050	**6**±7.3		**62**	**0-8**
ROM	X	13 04 17 04.3	42.9N	13.0E	5	3.6D		¶**97x2159**
LDG	X	13 04 17 05.6	42.9N	13.2E		3.6L		
NEIC	X	13 04 17 05.7	42.87N	12.91E	10			
NEIC		M_L4.0(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**13 06 43 24.7**±.83	**42.86N**±.034	**12.95E**±.063	**6**±7.6		**36**	**0-8**
ROM	X	13 06 43 23.9	42.9N	13.0E	5	3.5D		¶**97x2170**
NEIC	X	13 06 43 25.3	42.87N	12.91E	10			
LDG	X	13 06 43 26.6	42.9N	13.1E		3.4L		
NEIC		M_L3.8(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**13 09 10 21.0**±.43	**42.84N**±.031	**12.90E**±.057	**10**		**49**	**0-7**
ROM	X	13 09 10 19.4	42.9N	13.0E	5	3.5D		¶**97x2195**
LDG	X	13 09 10 21.0	42.8N	13.1E		3.7L		
NEIC	X	13 09 10 21.1	42.86N	12.87E	10			
NEIC		M_L3.8(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**13 11 01 46.3**±.80	**42.92N**±.023	**12.95E**±.023	**3**±6.4	**3.7b**	**163**	**0-128**
ROM	X	13 11 01 44.9	42.9N	13.1E	3	4.0D		¶**97x2205**
LDG	X	13 11 01 46.2	42.8N	13.2E		4.1L		
NEIC	X	13 11 01 46.6	42.90N	13.00E	10	4.2b		
EIDC	X	13 11 01 47.3	43.0N	13.4E	0	4.2L,3.5s		
MOS	X	13 11 01 48.4	43.1N	13.1E	10	5.0b		
PDG	X	13 11 01 50.6	42.5N	13.0E	10	4.1L		
STR	X	13 11 01 54.5	43.27N	12.61E	10	4.3L		
NEIC		M_L4.5(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	X	**13 11 38 09**±1.1	**42.93N**±.061	**13.0E**±.16	**4**		**6**	**0-1**
ROM	X	13 11 38 08.4	42.9N	13.0E	4	3.2D		¶**97x2209**
ISC	X	**13 12 46 36.3**±.94	**42.86N**±.036	**13.05E**±.058	**2**±8.5		**46**	**0-8**
ROM	X	13 12 46 35.9	42.9N	13.0E	5	3.6D		¶**97x2222**
NEIC	X	13 12 46 37.7	42.93N	13.00E	10			
LDG	X	13 12 46 37.9	42.9N	13.2E		3.8L		
NEIC		M_L4.1(VIE), Less reliable solution.						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	X	**13 12 49 42.5**±.64	**42.86N**±.040	**12.91E**±.077	**18**±9.1		**22**	**0-7**
LDG	X	13 12 49 41.0	42.7N	13.2E		3.4L		¶**97x2224**
ROM	X	13 12 49 41.2	42.9N	13.0E	5	3.3D		
NEIC	X	13 12 49 43.6	43.04N	12.75E	10			
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**13 13 09 21.2**±.70	**42.89N**±.022	**12.90E**±.023	**8**±5.4	**4.4b**,4.6s	**166**	**0-84**
BJI	X	13 13 09 18.7	42.94N	12.69E	5	4.6b		¶**97x2228**
ROM	X	13 13 09 19.8	42.9N	13.0E	4	4.0D		
NEIC	X	13 13 09 21.1	42.89N	12.92E	10	4.5b		
EIDC	X	13 13 09 22.4	43.0N	13.3E	0	4.0b,4.2L		
LDG	X	13 13 09 23.0	42.9N	13.1E		4.3L		
STR	X	13 13 09 28.0	43.17N	12.53E	10	4.4L		
PDG	X	13 13 09 28.7	42.6N	13.4E	10	4.0L		
NEIC		M_L4.9(VIE), M_L4.5(FUR)						
NEIC		Additional damage at Foligno. Felt at Rome.						
ISC	X	**13 15 20 25.7**±.84	**42.89N**±.056	**13.0E**±.14	**5**		**9**	**0-6**
ROM	X	13 15 20 25.1	42.9N	13.0E	5	3.0D		¶**97x2242**
ISC	X	**13 17 33 36**±1.2	**43.08N**±.068	**12.8E**±.15	**7**±14		**6**	**0-1**
ROM	X	13 17 33 35.7	43.1N	12.8E	2	3.0D		¶**97x2257**
ISC	X	**13 18 31 26.7**±.82	**42.86N**±.031	**12.95E**±.048	**5**±7.3		**56**	**0-8**
NEIC	X	13 18 31 24.5	42.68N	13.10E	10			¶**97x2264**
ROM	X	13 18 31 26.1	42.9N	13.0E	5	3.8D		
LDG	X	13 18 31 26.4	42.8N	13.2E		3.8L		
NEIC		M_L4.1(VIE), Less reliable solution.						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	X	**13 18 38 01.0**±.89	**42.98N**±.035	**12.77E**±.066	**10**±7.1		**40**	**0-7**
NEIC	X	13 18 37 58.0	42.76N	12.92E	10			¶**97x2265**
ROM	X	13 18 38 00.6	43.0N	12.9E	9	3.4D		
LDG	X	13 18 38 05.7	43.0N	12.5E		3.3L		
NEIC		M_L3.4(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**13 18 47 48.0**±.92	**42.85N**±.030	**12.90E**±.042	**12**±7.3	**3.7b**	**78**	**0-75**
ROM	X	13 18 47 46.9	42.9N	13.0E	5	3.5D		¶**97x2266**
NEIC	X	13 18 47 47.7	42.86N	12.88E	10			
EIDC	X	13 18 47 48.8	42.8N	13.1E	0	3.7b,4.2L		
LDG	X	13 18 47 49.1	42.9N	13.0E		3.7L		
NEIC		M_L4.0(VIE)						
NEIC		Felt I=V MCS in the epicentral area.						
ISC	X	**13 18 57 52**±1.2	**42.89N**±.037	**12.88E**±.069	**14**±9.4		**28**	**0-7**
LDG	X	13 18 57 49.3	42.8N	13.3E		3.3L		¶**97x2267**
ROM	X	13 18 57 50.2	42.9N	13.0E	5	3.4D		
NEIC	X	13 18 57 52.3	42.95N	12.75E	10			
NEIC		M_L3.3(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**13 19 55 06.4**±.72	**42.85N**±.049	**12.9E**±.13	**5**		**10**	**0-6**
ROM	X	13 19 55 05.5	42.9N	13.0E	5	3.0D		¶**97x2274**
ISC	X	**13 21 12 57**±1.1	**42.93N**±.031	**12.86E**±.046	**11**±8.9		**57**	**0-8**
NEIC	X	13 21 12 54.8	42.82N	12.91E	10			¶**97x2286**
ROM	X	13 21 12 55.5	43.0N	12.9E	5	3.5D		
LDG	X	13 21 12 55.7	42.9N	13.2E		3.6L		
NEIC		M_L4.0(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**13 21 25 22**±1.1	**42.93N**±.036	**12.83E**±.058	**9**±9.8		**42**	**1-7**
NEIC	X	13 21 25 20.6	42.83N	12.87E	10			¶**97x2290**
ROM	X	13 21 25 21.2	43.0N	12.9E	6	3.5D		
LDG	X	13 21 25 21.4	42.9N	13.1E		3.6L		
NEIC		M_L3.6(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**13 23 35 21.4**±.84	**42.92N**±.036	**12.80E**±.078	**5**±8.4		**28**	**0-7**
ROM	X	13 23 35 20.7	43.0N	12.9E	5	3.3D		¶**97x2305**
NEIC	X	13 23 35 21.1	42.96N	12.84E	10			
LDG	X	13 23 35 24.9	42.9N	12.7E		2.9L		
NEIC		M_L3.3(VIE)						
NEIC		Felt I=III MCS in the epicentral area.						
ISC	X	**14 01 41 55.3**±.79	**42.87N**±.053	**13.0E**±.13	**5**		**9**	**0-3**
ROM	X	14 01 41 54.7	42.9N	13.0E	5	3.2D		¶**97x2319**
ISC	X	**14 06 37 23.5**±.68	**42.87N**±.045	**12.88E**±.091	**19**±9.3		**19**	**0-7**
ROM	X	14 06 37 22.2	42.9N	13.0E	5	3.3D		¶**97x2348**
NEIC	X	14 06 37 25.4	43.14N	12.66E	10			
LDG	X	14 06 37 28.2	43.0N	12.6E		3.3L		
NEIC		Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**14 06 53 34.2**±.94	**42.90N**±.048	**13.1E**±.11	**2**±15		**9**	**0-4**
ROM	X	14 06 53 34.4	42.9N	13.0E	5	3.3D		¶**97x2351**
ISC	X	**14 07 54 05.7**±.41	**43.01N**±.031	**12.64E**±.055	**7**		**45**	**1-7**
LDG	X	14 07 54 03.4	42.8N	13.1E		3.6L		¶**97x2358**
ROM	X	14 07 54 04.9	43.1N	12.8E	7	3.4D		
NEIC	X	14 07 54 05.7	43.01N	12.66E	10			
NEIC		M_L3.7(VIE)						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**14 09 40 00**±1.0	**42.85N**±.034	**12.93E**±.064	**12**±8.4		**42**	**0-7**
NEIC	X	14 09 39 58.8	42.80N	12.98E	10			¶**97x2368**
ROM	X	14 09 39 59.2	42.9N	13.0E	5	3.3D		
LDG	X	14 09 40 02.3	42.9N	12.9E		3.6L		
NEIC		M_L3.8(VIE), Less reliable solution.						
NEIC		Felt I=IV MCS in the epicentral area.						
ISC	X	**14 12 49 24**±1.1	**42.85N**±.053	**13.0E**±.13	**1**±13		**9**	**0-6**
ROM	X	14 12 49 23.5	42.9N	13.0E	5	3.2D		¶**97x2408**
ISC	X	**14 15 23 09.3**±.53	**42.95N**±.013	**12.90E**±.014	**3**±3.7	**5.3b,5.6s**	**570**	**0-150**
LEDBW	X	14 15 23 08.6	42.21N	13.27E	10	5.3L		¶**97x2426**
ROM	X	14 15 23 09.1	42.9N	13.0E	5	5.5D		
EIDC	X	14 15 23 09.8	42.9N	12.9E	0	5.0b,5.6s		
BJI	X	14 15 23 09.9	43.21N	12.88E	8	5.5b,6.0s		
MOS	X	14 15 23 10.2	43.0N	12.9E	10	5.9b,5.6s		

NEIC X 14 15 23 10.2 42.96N 12.89E 10 5.4b,5.5s
LDG X 14 15 23 11.2 42.9N 13.1E 5.3L
PDG X 14 15 23 15.1 42.8N 13.2E 12 5.4D
STR X 14 15 23 17.3 43.22N 12.51E 10 5.5L
NEIC M_L5.7(VIE), M_L5.6(FUR). Casualties
NEIC One person injured and additional damage I=VIII MCS in the Assisi-Perugia-Foligno area. Slight damage at Rome. Felt as far south as Naples.
ISC X 14 15 34 03.9±.98 **42.86N**±.032 **12.85E**±.053 **10**±8.1 **46 0-7**
ROM X 14 15 34 02.0 42.9N 13.0E 5 3.4D **¶97x2428**
NEIC X 14 15 34 03.2 42.86N 12.90E 10
LDG X 14 15 34 03.8 42.8N 13.1E 3.7L
STR X 14 15 34 10.6 43.18N 12.60E 10 3.8L
NEIC M_L3.7(VIE)
NEIC Felt I=IV MCS in the epicentral area.
ISC X 14 15 41 20±1.2 **42.96N**±.053 **13.1E**±.16 **6**±13 **8 0-6**
ROM X 14 15 41 19.6 42.9N 13.0E 5 3.0D **¶97x2429**
ISC X 14 15 52 52.9±.64 **42.91N**±.036 **12.88E**±.067 **17**±8.6 **48 0-8**
NEIC X 14 15 52 49.8 42.75N 13.01E 10 **¶97x2433**
LDG X 14 15 52 51.7 42.8N 13.1E 3.7L
ROM X 14 15 52 52.2 42.9N 12.9E 8 3.3D
STR X 14 15 53 01 43.20N 12.26E 10 3.8L
NEIC M_L3.9(VIE), Poor solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 14 16 01 36±1.1 **42.94N**±.039 **12.86E**±.080 **14**±8.0 **27 0-7**
ROM X 14 16 01 34.7 42.9N 13.0E 5 3.2D **¶97x2434**
NEIC X 14 16 01 36.9 43.09N 12.72E 10
LDG X 14 16 01 37.3 42.9N 12.9E 3.4L
NEIC M_L3.6(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 14 16 06 21±1.3 **42.90N**±.070 **13.0E**±.17 **0**±23 **9 0-8**
ROM X 14 16 06 20.6 42.9N 13.0E 7 3.1D **¶97x2437**
ISC X 14 16 07 26±1.4 **42.87N**±.062 **12.9E**±.12 **14**±11 **14 0-7**
ROM X 14 16 07 25.0 42.9N 13.0E 5 3.3D **¶97x2438**
LDG X 14 16 07 33.7 42.7N 12.2E 3.5L
ISC X 14 16 10 07±1.3 **42.96N**±.068 **13.0E**±.17 **8 5 0-1**
ROM X 14 16 10 06.4 43.0N 13.0E 8 3.0D **¶97x2440**
ISC X 14 16 15 34±1.0 **42.87N**±.033 **12.95E**±.054 **11**±8.3 **59 0-8**
NEIC X 14 16 15 31.2 42.68N 13.06E 10 **¶97x2442**
ROM X 14 16 15 33.0 42.9N 13.0E 5 3.4D
LDG X 14 16 15 33.6 42.8N 13.2E 3.8L
STR X 14 16 15 38.5 43.08N 12.72E 10 3.9L
NEIC M_L4.2(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 14 16 24 42.0±.74 **42.93N**±.024 **12.80E**±.024 **10**±5.9 3.8b **147 0-75**
BJI X 14 16 24 40.2 42.90N 12.70E 10 **¶97x2444**
ROM X 14 16 24 41.1 42.9N 12.9E 7 3.7D
LDG X 14 16 24 41.8 42.9N 13.0E 4.2L
NEIC X 14 16 24 42.2 42.94N 12.75E 10 3.9b
EIDC X 14 16 24 42.4 42.8N 13.4E 0 4.1L,3.9b
PDG X 14 16 24 45.6 42.4N 13.0E 10 4.1L
STR X 14 16 24 49.1 43.25N 12.36E 10 4.2L
NEIC M_L4.5(VIE)
NEIC ML 4.1 (FUR). Felt I=V MCS in the epicentral area.
ISC X 14 16 36 44.7±.33 **42.92N**±.028 **12.91E**±.043 **5 70 0-8**
ROM X 14 16 36 43.6 42.9N 13.0E 5 3.6D **¶97x2446**
NEIC X 14 16 36 46.3 42.93N 12.79E 10
LDG X 14 16 36 46.9 42.9N 13.0E 3.8L
STR X 14 16 36 54.5 43.26N 12.27E 10 3.8L
NEIC M_L3.9(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 14 16 39 16.2±.68 **42.87N**±.037 **12.93E**±.070 **16**±9.2 **41 0-7**
ROM X 14 16 39 14.8 42.9N 13.0E 5 3.4D **¶97x2447**
NEIC X 14 16 39 15.7 42.87N 12.85E 10
LDG X 14 16 39 16.0 42.8N 13.1E 3.8L
STR X 14 16 39 23.9 43.21N 12.46E 10 3.9L
NEIC M_L4.0(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 14 17 22 28±1.0 **42.88N**±.054 **13.0E**±.14 **5**±13 **8 0-6**
ROM X 14 17 22 27.5 42.9N 13.0E 5 3.0D **¶97x2456**
ISC X 14 17 42 01.2±.60 **42.90N**±.029 **12.88E**±.038 **17**±7.4 **92 0-20**
ROM X 14 17 42 00.1 42.9N 12.9E 8 3.7D **¶97x2460**
LDG X 14 17 42 00.1 42.9N 13.2E 3.7L
NEIC X 14 17 42 00.9 42.97N 12.84E 10
STR X 14 17 42 08.8 43.21N 12.29E 10 4.0L
NEIC M_L4.4(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 14 17 52 32.1±.88 **42.89N**±.053 **13.0E**±.14 **5 10 0-6**
ROM X 14 17 52 31.5 42.9N 13.0E 5 3.0D **¶97x2463**
ISC X 14 18 36 29.5±.99 **42.85N**±.056 **13.0E**±.15 **3 7 0-6**
ROM X 14 18 36 28.3 42.9N 13.0E 3 3.2D **¶97x2468**
ISC X 14 18 56 09.8±.79 **42.93N**±.052 **13.0E**±.13 **5 8 0-6**
ROM X 14 18 56 09.4 42.9N 12.9E 5 3.1D **¶97x2471**
ISC X 14 19 25 12±1.3 **42.88N**±.045 **12.98E**±.099 **13**±10 **22 0-7**
ROM X 14 19 25 11.3 42.9N 13.0E 5 3.0D **¶97x2475**
LDG X 14 19 25 11.9 42.8N 13.2E 3.1L
NEIC X 14 19 25 13.8 42.89N 12.79E 10
NEIC M_L3.1(LDG), Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.
ISC X 14 19 34 19±1.1 **42.86N**±.026 **12.97E**±.033 **13**±9.0 3.8b **112 0-75**
ROM X 14 19 34 17.1 42.9N 13.0E 3 3.7D **¶97x2478**
LDG X 14 19 34 18.0 42.8N 13.3E 3.7L
NEIC X 14 19 34 18.9 42.92N 12.92E 10
EIDC X 14 19 34 19.9 42.9N 13.4E 0 4.0L,3.6b
STR X 14 19 34 23.1 43.03N 12.73E 10 4.1L
NEIC M_L4.2(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 14 19 44 33.3±.82 **42.91N**±.046 **13.0E**±.10 **22**±8.9 **25 0-7**
LDG X 14 19 44 31.9 42.8N 13.3E 3.2L **¶97x2480**
ROM X 14 19 44 32.5 42.9N 13.0E 5 3.2D
NEIC X 14 19 44 33.0 43.07N 13.00E 10
NEIC Poor solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 14 19 53 47±1.0 **42.90N**±.048 **13.0E**±.13 **5**±12 **10 0-6**
ROM X 14 19 53 46.8 42.9N 13.0E 5 3.0D **¶97x2482**
ISC X 14 20 21 37.7±.90 **42.96N**±.042 **12.9E**±.11 **6**±9.8 **14 0-8**
ROM X 14 20 21 37.0 43.0N 12.9E 5 3.2D **¶97x2485**
ISC X 14 20 32 36.2±.63 **42.93N**±.041 **12.9E**±.11 **5 11 0-6**
ROM X 14 20 32 35.3 42.9N 13.0E 5 3.3D **¶97x2489**
ISC X 14 21 07 39±1.1 **42.94N**±.046 **13.0E**±.12 **0**±14 **10 0-6**
ROM X 14 21 07 39.5 42.9N 12.9E 5 3.0D **¶97x2494**
ISC X 14 21 33 30±1.3 **42.89N**±.040 **12.98E**±.084 **12**±11 **25 0-7**
ROM X 14 21 33 29.3 42.9N 13.0E 5 3.3D **¶97x2497**
LDG X 14 21 33 31.3 42.8N 13.1E 3.2L
NEIC X 14 21 33 31.7 43.05N 12.85E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 14 21 41 31±1.3 **42.91N**±.036 **12.98E**±.065 **12**±10 **29 0-7**
LDG X 14 21 41 30.8 42.8N 13.3E 3.3L **¶97x2501**
ROM X 14 21 41 31.0 42.9N 13.0E 5 3.3D
NEIC X 14 21 41 32.2 43.03N 12.95E 10
NEIC M_L3.7(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 14 23 04 47.1±.82 **42.92N**±.034 **12.82E**±.066 **3**±7.9 **30 0-8**
LDG X 14 23 04 46.2 42.8N 13.3E 3.2L **¶97x2509**
ROM X 14 23 04 46.9 42.9N 12.9E 5 3.1D
NEIC X 14 23 04 48.2 42.95N 12.78E 10
NEIC M_L3.4(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 14 23 23 29.7±.54 **42.96N**±.023 **12.82E**±.022 **16**±6.1 **4.4b 167 0-75**
ROM X 14 23 23 28.2 43.0N 12.9E 5 3.9D **¶97x2512**
BJI X 14 23 23 28.4 42.90N 12.90E 10 4.8b
NEIC X 14 23 23 28.4 42.93N 12.86E 10 4.3b
EIDC X 14 23 23 28.6 42.9N 13.0E 0 4.0L,3.9b
PDG X 14 23 23 30.7 43.4N 12.8E 11 4.1L
LDG X 14 23 23 32.8 43.0N 12.7E 4.0L
STR X 14 23 23 36.8 43.27N 12.32E 10 4.3L
NEIC M_L4.7(VIE)
NEIC ML 4.2 (FUR). Felt I=V MCS in the epicentral area.
ISC X 14 23 48 29.5±.83 **42.87N**±.035 **12.96E**±.065 **6**±7.6 **34 0-7**
ROM X 14 23 48 29.0 42.9N 13.0E 5 3.6D **¶97x2515**
NEIC X 14 23 48 30.1 42.90N 12.94E 10
LDG X 14 23 48 31.5 42.9N 13.1E 3.4L
NEIC M_L3.7(VIE), Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.
ISC X 15 00 12 26.8±.93 **42.87N**±.038 **13.01E**±.069 **10**±8.2 **41 0-8**
NEIC X 15 00 12 25.3 42.77N 13.09E 10 **¶97x2518**
ROM X 15 00 12 25.9 42.9N 13.0E 3 3.4D
LDG X 15 00 12 28.5 42.9N 13.1E 3.3L
NEIC M_L3.6(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 15 00 38 36.2±.78 **42.89N**±.047 **13.0E**±.13 **5 9 0-6**
ROM X 15 00 38 35.7 42.9N 13.0E 5 3.0D **¶97x2520**
ISC X 15 01 02 52±1.0 **42.88N**±.034 **12.90E**±.059 **10**±8.3 **45 0-8**
NEIC X 15 01 02 49.8 42.69N 12.98E 10 **¶97x2522**
ROM X 15 01 02 50.9 42.9N 13.0E 4 3.4D
LDG X 15 01 02 53.0 42.8N 13.0E 3.4L
NEIC M_L3.7(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 15 01 08 39±1.1 **42.88N**±.040 **12.99E**±.080 **13**±9.4 **25 0-8**
ROM X 15 01 08 38.0 42.9N 13.0E 5 3.2D **¶97x2525**
LDG X 15 01 08 38.6 42.8N 13.2E 3.1L
NEIC X 15 01 08 40.9 43.06N 12.78E 10
NEIC Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.
ISC X 15 01 52 15.1±.64 **42.96N**±.037 **12.82E**±.065 **18**±8.1 **35 0-8**
ROM X 15 01 52 14.0 43.0N 13.0E 6 3.3D **¶97x2531**
LDG X 15 01 52 15.2 42.9N 13.0E 3.2L
NEIC X 15 01 52 16.0 43.12N 12.69E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 15 02 21 43±1.0 **42.88N**±.063 **13.0E**±.15 **5 6 0-1**
ROM X 15 02 21 43.0 42.9N 13.0E 5 3.0D **¶97x2540**
ISC X 15 03 01 26.7±.71 **42.90N**±.044 **12.91E**±.071 **18**±9.3 **25 0-8**
ROM X 15 03 01 25.4 42.9N 13.0E 5 3.2D **¶97x2548**
NEIC X 15 03 01 26.8 43.03N 12.86E 10
LDG X 15 03 01 27.3 42.9N 13.0E 3.3L
NEIC Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.
ISC X 15 03 09 26.4±.99 **42.89N**±.054 **13.0E**±.15 **8**±11 **9 0-9**
ROM X 15 03 09 26.1 42.9N 13.0E 5 3.1D **¶97x2551**
ISC X 15 04 25 40±1.3 **42.96N**±.080 **12.9E**±.18 **2**±31 **5 0-1**
ROM X 15 04 25 40.0 43.0N 12.9E 5 3.0D **¶97x2564**
ISC Poorly determined
ISC X 15 09 02 01.9±.58 **42.88N**±.037 **12.97E**±.097 **5 13 0-7**
ROM X 15 09 02 01.1 42.9N 13.0E 5 3.3D **¶97x2592**
ISC X 15 09 29 21.7±.80 **42.93N**±.052 **12.9E**±.14 **4 8 0-4**
ROM X 15 09 29 20.8 43.0N 12.9E 4 3.0D **¶97x2596**
ISC X 15 09 41 24±1.1 **42.96N**±.043 **12.85E**±.089 **13**±9.1 **19 0-7**
NEIC X 15 09 41 21.8 42.93N 13.04E 10 **¶97x2601**
ROM X 15 09 41 23.2 43.0N 12.9E 5 3.0D
LDG X 15 09 41 26.2 42.9N 12.9E 3.1L
NEIC Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.
ISC X 15 11 06 38±1.1 **42.93N**±.039 **12.82E**±.077 **13**±9.0 **26 0-7**
LDG X 15 11 06 35.8 42.7N 13.2E 3.4L **¶97x2612**
ROM X 15 11 06 36.8 42.9N 12.9E 5 3.2D
NEIC X 15 11 06 40.3 43.11N 12.61E 10
NEIC Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 15 11 17 57.2±.66 **42.84N**±.040 **12.86E**±.093 **8 21 0-7**
ROM X 15 11 17 56.0 42.9N 13.0E 8 3.0D **¶97x2616**
NEIC X 15 11 17 59.2 42.85N 12.65E 10
LDG X 15 11 18 00.4 42.7N 12.8E 3.2L
NEIC Poor solution.
NEIC Felt I=III MCS in the epicentral area.
ISC X 15 11 51 45.4±.71 **42.96N**±.026 **12.89E**±.024 **4**±5.6 **4.4b 132 0-87**
ROM X 15 11 51 44.8 42.9N 13.0E 3 3.9D **¶97x2622**
LDG X 15 11 51 45.8 42.9N 13.2E 3.9L
BJI X 15 11 51 46.0 43.00N 12.90E 10 4.8b
NEIC X 15 11 51 46.0 42.96N 12.89E 10 4.1b
EIDC X 15 11 51 47.1 42.8N 13.2E 0 3.9b,4.2L
PDG X 15 11 51 48.5 43.1N 13.0E 10 4.1L
STR X 15 11 51 51.9 43.18N 12.55E 10 4.2L
NEIC M_L4.3(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 15 12 05 11±1.1 **42.86N**±.039 **12.91E**±.086 **11**±8.9 **24 0-8**
NEIC X 15 12 05 10.3 42.77N 12.93E 10 **¶97x2626**
ROM X 15 12 05 10.4 42.9N 13.0E 4 3.3D
NEIC M_L3.6(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.

Agency		Origin Time mo d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
ISC	X	**15 14 09 58.8**±.97	**42.88N**±.027	**12.96E**±.034	**13**±7.9		**89**	**0-8**
ROM	X	15 14 09 57.3	42.9N	13.0E	5	3.7D		¶**97x2650**
LDG	X	15 14 09 57.5	42.8N	13.3E		3.5L		
NEIC	X	15 14 09 58.2	42.87N	12.96E	10			
STR	X	15 14 10 04.4	43.11N	12.63E	10	4.0L		
NEIC	ML3.8(VIE)							
NEIC	ML 3.8 (FUR). Felt I=V MCS in the epicentral area.							
ISC	X	**15 14 35 51.2**±.67	**42.88N**±.039	**12.88E**±.075	**22**±8.8		**25**	**0-7**
ROM	X	15 14 35 49.8	42.9N	13.0E	5	3.3D		¶**97x2657**
NEIC	X	15 14 35 52.8	43.12N	12.67E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	X	**15 15 36 14**±1.1	**42.89N**±.030	**12.92E**±.045	**12**±8.9	3.6b	**61**	**0-75**
NEIC	X	15 15 36 12.7	42.85N	12.94E	10			¶**97x2668**
ROM	X	15 15 36 12.8	42.9N	13.0E	6	3.6D		
LDG	X	15 15 36 13.7	42.8N	13.1E		3.8L		
EIDC	X	15 15 36 15.1	42.9N	13.3E	0	3.5b,3.9L		
NEIC	ML3.9(VIE)							
NEIC	ML 3.6 (FUR). Felt I=V MCS in the epicentral area.							
ISC	X	**15 17 15 58**±1.1	**42.92N**±.039	**12.83E**±.076	**14**±8.9		**28**	**0-7**
LDG	X	15 17 15 56.1	42.8N	13.2E		3.3L		¶**97x2682**
ROM	X	15 17 15 56.6	42.9N	12.9E	4	3.4D		
NEIC	X	15 17 15 57.5	42.90N	12.81E	10			
NEIC	Poor solution.							
NEIC	ML 3.2 (VIE). Felt I=IV MCS in the epicentral area.							
ISC	X	**15 17 28 29.2**±.93	**42.86N**±.062	**13.0E**±.15	**5**		**6**	**0-1**
ROM	X	15 17 28 28.5	42.9N	13.0E	5	3.0D		¶**97x2684**
ISC	X	**15 18 18 16**±1.2	**42.86N**±.030	**12.96E**±.039	**15**±9.2		**76**	**0-8**
ROM	X	15 18 18 14.9	42.9N	13.0E	5	3.6D		¶**97x2692**
LDG	X	15 18 18 15.0	42.8N	13.3E		3.5L		
NEIC	X	15 18 18 15.4	42.87N	12.97E	10			
NEIC	ML3.7(VIE)							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	X	**15 18 49 54.4**±.74	**43.01N**±.024	**12.83E**±.030	**7**±6.0	**3.8b**,3.2s	**130**	**0-75**
ROM	X	15 18 49 53.7	43.0N	12.9E	5	3.8D		¶**97x2694**
NEIC	X	15 18 49 54.8	43.02N	12.83E	10			
LDG	X	15 18 49 55.1	42.9N	13.1E		3.6L		
EIDC	X	15 18 49 55.5	43.0N	13.0E	0	3.9L,3.8b		
STR	X	15 18 50 02.2	43.30N	12.36E	10	3.9L		
NEIC	ML3.9(VIE)							
NEIC	ML 3.8 (FUR). Felt I=V MCS in the epicentral area.							
ISC	X	**15 22 09 35.6**±.96	**42.93N**±.035	**12.73E**±.076	**0**±9.5		**31**	**0-7**
NEIC	X	15 22 09 33.9	42.76N	12.90E	10			¶**97x2733**
ROM	X	15 22 09 34.8	43.0N	12.9E	5	3.2D		
LDG	X	15 22 09 38.9	42.8N	12.7E		3.0L		
NEIC	Less reliable solution.							
NEIC	Felt I=III MCS in the epicentral area.							
ISC	X	**15 22 39 50**±1.0	**42.92N**±.047	**12.9E**±.15	**6**±12		**10**	**0-7**
ROM	X	15 22 39 49.5	42.9N	12.9E	5	3.0D		¶**97x2737**
ISC	X	**15 22 53 10.2**±.70	**42.94N**±.021	**12.88E**±.020	**6**±5.4	**4.3b,4.4s**	**190**	**0-80**
BJI	X	15 22 53 07.6	43.58N	12.19E	4	4.8b		¶**97x2740**
ROM	X	15 22 53 09.3	42.9N	13.0E	6	4.1D		
LDG	X	15 22 53 09.3	42.8N	13.2E		3.9L		
NEIC	X	15 22 53 10.4	42.93N	12.89E	10	4.5b		
MOS	X	15 22 53 11.1	43.0N	13.0E	10	5.2b		
EIDC	X	15 22 53 11.1	42.9N	12.9E	0	3.9b,3.9s		
PDG	X	15 22 53 15.8	42.8N	13.3E	12	4.1L		
STR	X	15 22 53 17.3	43.16N	12.51E	10	4.2L		
NEIC	ML4.4(VIE), ML4.4(FUR)							
NEIC	Felt I=VI MCS in the epicentral area.							
ISC	X	**16 00 11 45.1**±.99	**42.87N**±.030	**12.98E**±.038	**11**±8.0		**83**	**0-38**
ROM	X	16 00 11 44.1	42.9N	13.0E	5	3.6D		¶**97x2753**
LDG	X	16 00 11 44.7	42.8N	13.2E		3.5L		
NEIC	X	16 00 11 45.0	42.89N	12.96E	10			
EIDC	X	16 00 11 47.7	43.0N	13.4E	0	3.9L		
NEIC	ML3.7(VIE)							
NEIC	ML 3.6 (FUR). Felt I=V MCS in the epicentral area.							
ISC	X	**16 02 23 37.4**±.79	**42.91N**±.024	**12.90E**±.024	**6**±6.4	3.7b	**142**	**0-75**
ROM	X	16 02 23 36.4	42.9N	13.0E	5	3.9D		¶**97x2772**
NEIC	X	16 02 23 37.6	42.91N	12.92E	10	4.7b		
LDG	X	16 02 23 39.0	42.8N	13.0E		3.7L		
EIDC	X	16 02 23 44.5	43.4N	13.0E	0	3.8L,3.5s		
PDG	X	16 02 23 44.6	43.0N	13.5E	16	4.0L		
STR	X	16 02 23 46.6	43.16N	12.24E	10	3.9L		
NEIC	ML4.1(VIE), ML4.0(FUR)							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	X	**16 04 52 55.1**±.21	**42.98N**±.022	**12.88E**±.024	**4**	**4.1b**,4.0s	**145**	**0-75**
ROM	X	16 04 52 54.9	42.9N	12.9E	4	3.9D		¶**97x2789**
BJI	X	16 04 52 55.6	43.00N	12.90E	10	4.4b		
NEIC	X	16 04 52 55.6	42.98N	12.89E	10	4.2b		
EIDC	X	16 04 52 58.6	43.1N	13.2E	0	3.9L,3.8s		
LDG	X	16 04 52 59.1	43.0N	12.8E		3.9L		
STR	X	16 04 53 02.8	43.19N	12.43E	10	4.1L		
NEIC	ML4.5(VIE), ML4.4(FUR)							
NEIC	Felt I=VI MCS in the epicentral area.							
ISC	X	**16 12 00 30.2**±.72	**43.03N**±.019	**12.86E**±.020	**1**±5.5	**4.4b,4.2s**	**223**	**0-87**
LDG	X	16 12 00 29.8	42.9N	13.2E		4.3L		¶**97x2832**
ROM	X	16 12 00 30.5	43.0N	12.9E	8	4.1D		
BJI	X	16 12 00 31.2	43.00N	12.80E	10	4.7b		
NEIC	X	16 12 00 31.2	43.02N	12.85E	10			
PDG	X	16 12 00 34.2	42.7N	13.0E	10	4.5L		
EIDC	X	16 12 00 36.2	43.1N	13.0E	26	3.9b,4.0s		
STR	X	16 12 00 39.8	43.33N	12.24E	10	4.5L		
NEIC	ML4.8(VIE), ML4.6(FUR)							
NEIC	Felt I=VI MCS in the epicentral area.							
ISC	X	**16 14 04 13**±1.1	**43.05N**±.054	**12.9E**±.12	**2**±13		**11**	**0-6**
ROM	X	16 14 04 12.1	43.1N	12.9E	4	3.0D		¶**97x2848**
ISC	X	**16 17 31 44.6**±.96	**42.87N**±.023	**12.95E**±.023	**14**±7.3	**4.2b**,4.0s	**172**	**0-80**
ROM	X	16 17 31 43.7	42.9N	13.0E	5	3.9D		¶**97x2862**
BJI	X	16 17 31 43.9	42.90N	13.00E	10	4.6b		
NEIC	X	16 17 31 43.9	42.88N	12.97E	10	4.3b		
LDG	X	16 17 31 44.4	42.8N	13.2E		3.7L		
EIDC	X	16 17 31 45.0	42.8N	13.2E	0	4.0b,4.0L		
MOS	X	16 17 31 45.1	43.0N	13.2E	10	5.0b		
STR	X	16 17 31 46.5	42.95N	12.91E	10	4.2L		
PDG	X	16 17 31 48.3	42.6N	13.2E	10	3.8L		
NEIC	ML4.5(VIE)							
NEIC	ML 4.2 (FUR). Felt I=V MCS in the epicentral area.							
ISC	X	**16 20 47 51.3**±.83	**42.95N**±.034	**12.86E**±.059	**10**±7.0		**32**	**0-8**
ROM	X	16 20 47 50.2	43.0N	13.0E	3	3.3D		¶**97x2877**
NEIC	X	16 20 47 51.6	42.98N	12.83E	10			
LDG	X	16 20 47 53.3	43.0N	13.0E		3.0L		
NEIC	ML3.3(VIE)							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	X	**16 22 02 57.3**±.93	**42.94N**±.045	**12.9E**±.12	**5**±11		**10**	**0-3**
ROM	X	16 22 02 57.2	43.0N	12.9E	10	3.0D		¶**97x2886**
ISC	X	**17 00 36 50**±1.0	**42.86N**±.046	**13.0E**±.13	**5**±11		**11**	**0-6**
ROM	X	17 00 36 49.6	42.8N	13.0E	5	3.1D		¶**97x2909**
ISC	X	**17 01 07 30**±1.1	**43.01N**±.054	**12.9E**±.13	**2**±13		**9**	**0-1**
ROM	X	17 01 07 29.9	43.0N	12.9E	4	3.0D		¶**97x2915**
ISC	X	**17 02 03 44.8**±.88	**43.60N**±.099	**12.17E**±.085	**10**±13		**8**	**0-2**
ROM	X	17 02 03 44.6	43.6N	12.2E	9	3.0D		¶**97x2918**
ISC	X	**17 07 52 32.2**±.84	**42.94N**±.063	**12.9E**±.14	**8**		**8**	**0-4**
ROM	X	17 07 52 32.0	42.9N	12.8E	8	3.0D		¶**97x2941**
ISC	X	**17 12 10 25.3**±.96	**42.96N**±.039	**12.75E**±.069	**14**±8.0		**25**	**0-7**
LDG	X	17 12 10 23.3	42.8N	13.2E		3.4L		¶**97x2983**
ROM	X	17 12 10 24.1	43.0N	12.9E	5	3.3D		
NEIC	X	17 12 10 25.2	43.06N	12.72E	10			
NEIC	Single network solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	X	**17 14 06 58.0**±.94	**42.94N**±.067	**12.9E**±.15	**6**		**6**	**0-1**
ROM	X	17 14 06 57.4	42.9N	12.9E	6	3.0D		¶**97x3000**
ISC	X	**17 14 23 45.1**±.83	**42.88N**±.024	**12.92E**±.029	**4**±6.9	3.6b	**128**	**0-72**
ROM	X	17 14 23 44.5	42.9N	13.0E	6	3.8D		¶**97x3002**
LDG	X	17 14 23 45.7	42.8N	13.2E		3.9L		
NEIC	X	17 14 23 45.8	42.89N	12.91E	10			
EIDC	X	17 14 23 50.5	43.2N	12.3E	0	3.8L,3.5b		
STR	X	17 14 23 55.3	43.28N	12.28E	10	4.0L		
NEIC	ML4.5(VIE), ML4.1(FUR)							
NEIC	Felt I=V MCS in the epicentral area.							
ROM	X	**17 14 24 44.4**	**42.9N**	**13.0E**	**5**	**3.6D**		¶**97x3004**
ISC	X	**17 14 28 40.8**±.90	**42.89N**±.059	**12.9E**±.15	**7**		**7**	**0-1**
ROM	X	17 14 28 40.4	42.9N	12.9E	7	3.0D		¶**97x3005**
ISC	X	**17 14 55 59.6**±.86	**42.94N**±.056	**13.0E**±.12	**18**±9.4		**15**	**0-7**
ROM	X	17 14 55 58.9	42.9N	13.0E	5	3.0D		¶**97x3009**
ISC	X	**17 15 11 10.6**±.94	**42.88N**±.035	**12.81E**±.068	**11**±8.0		**33**	**0-7**
ROM	X	17 15 11 09.7	42.9N	12.9E	10	3.3D		¶**97x3015**
LDG	X	17 15 11 10.4	42.8N	13.0E		3.3L		
NEIC	X	17 15 11 10.8	42.88N	12.78E	10			
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	X	**17 16 49 19.3**±.41	**43.83N**±.054	**11.53E**±.051	**34**±20		**33**	**0-7**
NEIC	X	17 16 49 18.7	43.94N	11.38E	10			¶**97x3022**
ROM	X	17 16 49 19.2	43.9N	11.6E	29	3.0D		
LDG	X	17 16 49 20.9	43.9N	11.3E		2.7L		
STR	X	17 16 49 23.0	44.08N	11.10E	10	3.0L		
ISC	X	**17 16 54 12.2**±.78	**43.12N**±.047	**12.71E**±.079	**13**±6.7		**21**	**0-7**
ROM	X	17 16 54 11.3	43.1N	12.8E	7	3.4D		¶**97x3024**
LDG	X	17 16 54 13.3	43.0N	12.8E		2.9L		
NEIC	X	17 16 54 13.3	43.23N	12.58E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ROM	X	**17 18 41 35.9**	**44.0N**	**11.5E**	**10**	**2.3D**		¶**97x3041**
ISC	X	**17 18 55 50.0**±.59	**42.93N**±.038	**12.86E**±.098	**7**		**13**	**0-6**
ROM	X	17 18 55 49.1	43.0N	12.9E	7	3.1D		¶**97x3043**
ISC	X	**17 19 06 33.6**±.78	**42.93N**±.053	**12.8E**±.12	**8**		**11**	**0-6**
ROM	X	17 19 06 32.9	43.0N	12.9E	8	3.1D		¶**97x3045**
ISC	X	**18 00 22 34**±2.4	**43.00N**±.085	**12.9E**±.26	**8**±19		**9**	**0-6**
ROM	X	18 00 22 32.4	43.0N	12.9E	4	3.0D		¶**97x3074**
ISC	X	**18 01 10 11.1**±.64	**42.88N**±.041	**12.90E**±.077	**20**±8.6		**33**	**0-8**
ROM	X	18 01 10 09.6	42.9N	13.0E	5	3.2D		¶**97x3081**
LDG	X	18 01 10 12.2	42.9N	13.0E		3.0L		
NEIC	X	18 01 10 13.1	43.13N	12.69E	10			
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	X	**18 01 48 21**±1.0	**43.03N**±.043	**12.88E**±.072	**12**±7.4		**26**	**0-7**
LDG	X	18 01 48 18.8	42.8N	13.3E		3.0L		¶**97x3085**
ROM	X	18 01 48 20.0	43.0N	13.0E	5	3.3D		
NEIC	X	18 01 48 21.1	43.08N	12.86E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	X	**18 04 46 41.7**±.84	**42.88N**±.050	**13.0E**±.11	**21**±9.7		**21**	**0-7**
ROM	X	18 04 46 40.7	42.9N	13.0E	5	3.0D		¶**97x3100**
LDG	X	18 04 46 41.4	42.8N	13.2E		3.0L		
NEIC	X	18 04 46 42.9	43.08N	12.79E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=III MCS in the epicentral area.							
ISC	X	**18 16 07 01.4**±.71	**42.89N**±.047	**12.9E**±.14	**9**		**11**	**0-6**
ROM	X	18 16 07 01.3	42.9N	12.8E	9	3.0D		¶**97x3192**
ISC	X	**18 17 10 49**±1.0	**42.82N**±.033	**12.94E**±.053	**12**±8.5		**52**	**0-8**
ROM	X	18 17 10 48.0	42.8N	13.0E	5	3.6D		¶**97x3197**
NEIC	X	18 17 10 48.4	42.78N	12.94E	10			
LDG	X	18 17 10 52.3	42.9N	12.9E		3.2L		
NEIC	ML3.7(VIE), Less reliable solution.							
NEIC	Felt I=V MCS in the epicentral area.							
ISC	X	**18 17 14 12.6**±.91	**42.83N**±.058	**13.0E**±.14	**3**		**8**	**0-4**
ROM	X	18 17 14 11.6	42.8N	13.0E	3	3.2D		¶**97x3198**
ISC	X	**18 17 41 47.5**±.49	**42.85N**±.034	**12.86E**±.065	**5**		**27**	**0-7**
ROM	X	18 17 41 47.6	42.8N	13.0E	5	3.3D		¶**97x3202**
LDG	X	18 17 41 50.6	42.8N	12.8E		2.9L		
NEIC	X	18 17 41 50.8	43.08N	12.63E	10			
NEIC	Less reliable solution.							
NEIC	Felt I=IV MCS in the epicentral area.							
ISC	X	**18 18 00 51.1**±.66	**42.98N**±.052	**12.70E**±.090	**19**±8.5		**17**	**0-7**
ROM	X	18 18 00 50.5	43.0N	12.9E	7	3.0D		¶**97x3207**
NEIC	X	18 18 00 55.1	43.18N	12.20E	10			
LDG	X	18 18 00 56.7	43.0N	12.3E		2.7L		
NEIC	Poor solution.							
NEIC	Felt I=III MCS in the epicentral area.							
ISC	X	**18 18 31 32**±1.1	**42.90N**±.051	**13.1E**±.13	**4**±13		**10**	**0-6**
ROM	X	18 18 31 31.7	42.9N	13.0E	5	3.0D		¶**97x3211**
ISC	X	**18 19 12 24.8**±.81	**42.84N**±.059	**13.0E**±.14	**5**		**8**	**0-1**
ROM	X	18 19 12 24.2	42.8N	13.0E	5	3.1D		¶**97x3218**
ISC	X	**18 21 28 35.9**±.89	**43.02N**±.058	**13.0E**±.14	**5**		**7**	**0-1**
ROM	X	18 21 28 35.3	43.0N	12.9E	5	3.0D		¶**97x3238**
ISC	X	**18 23 32 22.8**±.81	**42.99N**±.032	**12.76E**±.053	**3**±7.1		**42**	**0-7**
ROM	X	18 23 32 21.9	43.0N	12.9E	6	3.3D		¶**97x3256**
LDG	X	18 23 32 22.0	42.8N	13.1E		3.1L		
NEIC	X	18 23 32 23.7	43.01N	12.75E	10			
NEIC	Felt I=IV MCS in the epicentral area.							

ISC X 19 00 44 30.6±.92 **42.91N**±.024 **12.91E**±.035 **0**±7.8 **95 0-20**
ROM X 19 00 44 29.9 42.9N 13.0E 5 3.8D **¶97x3266**
LDG X 19 00 44 30.3 42.7N 13.2E 3.6L
NEIC X 19 00 44 31.9 42.92N 12.87E 10
EIDC X 19 00 45 14.3 46.0N 13.7E 0 3.3L
NEIC M_L4.0(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 19 02 41 34.1±.87 **42.96N**±.034 **12.85E**±.059 **8**±7.3 **37 0-7**
NEIC X 19 02 41 32.0 42.80N 12.99E 10 **¶97x3276**
ROM X 19 02 41 33.3 43.0N 12.9E 5 3.5D
LDG X 19 02 41 34.4 42.8N 13.0E 3.3L
NEIC M_L3.5(VIE). Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.
ISC X 19 04 04 17±1.3 **43.06N**±.050 **13.0E**±.14 **11**±12 **11 0-6**
ROM X 19 04 04 17.0 43.0N 13.0E 6 3.2D **¶97x3282**
ISC X 19 04 51 26±1.1 **42.94N**±.030 **12.88E**±.037 **13**±8.5 **74 0-21**
ROM X 19 04 51 24.8 42.9N 12.9E 3 3.8D **¶97x3290**
NEIC X 19 04 51 25.1 42.90N 12.89E 10
LDG X 19 04 51 27.4 42.9N 13.0E 3.5L
NEIC M_L3.8(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 19 08 43 44.0±.74 **42.87N**±.049 **13.0E**±.12 **5** **10 0-6**
ROM X 19 08 43 43.1 42.9N 13.0E 5 3.0D **¶97x3317**
ISC X 19 08 52 22.4±.91 **42.96N**±.059 **12.9E**±.14 **4** **8 0-6**
ROM X 19 08 52 21.9 43.0N 12.9E 4 3.0D **¶97x3319**
ISC X 19 08 59 41.1±.68 **43.01N**±.047 **12.8E**±.11 **5** **12 0-3**
ROM X 19 08 59 40.3 43.0N 12.9E 5 3.0D **¶97x3321**
ISC X 19 09 12 05±1.1 **43.00N**±.067 **12.9E**±.14 **3**±15 **7 0-1**
ROM X 19 09 12 04.3 43.0N 12.9E 5 3.0D **¶97x3323**
ISC X 19 09 56 21±1.1 **42.97N**±.043 **12.86E**±.090 **15**±8.9 **21 0-7**
ROM X 19 09 56 20.3 43.0N 12.9E 10 3.1D **¶97x3326**
LDG X 19 09 56 20.7 42.8N 13.0E 3.0L
ISC X 19 16 00 17.2±.74 **42.98N**±.020 **12.81E**±.021 **8**±5.8 **4.3b 182 0-75**
ROM X 19 16 00 16.4 43.0N 12.9E 8 3.9D **¶97x3365**
BJI X 19 16 00 17.3 43.00N 12.80E 10 4.7b
NEIC X 19 16 00 17.3 42.97N 12.81E 10 4.5b
LDG X 19 16 00 17.8 42.9N 13.0E 3.9L
PDG X 19 16 00 21.1 42.7N 12.9E 13 4.1L
EIDC X 19 16 00 23.8 43.5N 13.0E 0 3.9L,3.9b
STR X 19 16 00 27.3 43.37N 12.15E 10 4.1L
NEIC M_L4.5(VIE), M_L4.1(FUR)
NEIC Felt I=VI MCS in the epicentral area.
ISC X 20 01 27 05.2±.59 **42.96N**±.028 **12.85E**±.033 **17**±6.8 3.0b **94 0-71**
NEIC X 20 01 27 03.6 42.90N 12.89E 10 **¶97x3415**
ROM X 20 01 27 03.7 43.0N 13.0E 5 3.8D
EIDC X 20 01 27 04.4 42.9N 13.2E 0 3.5b,4.1L
LDG X 20 01 27 04.5 42.9N 13.1E 3.4L
NEIC M_L3.9(VIE)
NEIC Felt I=VI MCS in the epicentral area.
ISC X 20 04 29 26±1.0 **42.97N**±.061 **12.9E**±.16 **7** **7 0-1**
ROM X 20 04 29 25.8 43.0N 12.9E 7 3.0D **¶97x3439**
ISC X 20 06 09 31.6±.81 **42.93N**±.028 **12.83E**±.035 **9**±6.4 3.7b **93 0-71**
STR X 20 06 09 27.5 42.65N 13.45E 11 3.9L **¶97x3451**
ROM X 20 06 09 30.5 43.0N 13.0E 4 3.7D
LDG X 20 06 09 30.6 42.8N 13.2E 3.5L
NEIC X 20 06 09 31.9 42.95N 12.80E 10
EIDC X 20 06 09 32.3 42.9N 13.0E 0 4.1L,3.7b
NEIC M_L3.9(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 20 06 14 33.0±.85 **43.01N**±.055 **12.9E**±.13 **5** **10 0-6**
ROM X 20 06 14 32.3 43.0N 12.9E 5 3.1D **¶97x3452**
ISC X 20 10 28 08.4±.93 **42.96N**±.039 **12.9E**±.11 **4**±10 **16 0-5**
ROM X 20 10 28 08.1 43.0N 12.9E 8 3.4D **¶97x3481**
ISC X 20 10 32 02.2±.83 **42.87N**±.059 **13.0E**±.14 **5** **8 0-1**
ROM X 20 10 32 01.7 42.9N 13.0E 5 3.2D **¶97x3482**
ISC X 20 12 17 45±1.1 **42.91N**±.068 **13.0E**±.15 **3**±17 **7 0-1**
ROM X 20 12 17 44.1 42.9N 13.0E 5 3.0D **¶97x3495**
ISC X 21 07 25 43.9±.65 **42.92N**±.042 **12.9E**±.11 **5** **11 0-3**
ROM X 21 07 25 43.1 42.9N 13.0E 5 3.2D **¶97x3621**
ISC X 21 09 43 13.7±.88 **43.06N**±.059 **12.8E**±.11 **3** **7 0-3**
ROM X 21 09 43 12.4 43.1N 12.8E 3 3.0D **¶97x3633**
ISC X 21 17 35 56.1±.88 **42.98N**±.034 **12.87E**±.063 **8**±7.3 **34 0-7**
NEIC X 21 17 35 54.7 42.88N 12.96E 10 **¶97x3687**
ROM X 21 17 35 55.7 43.0N 12.9E 5 3.4D
LDG X 21 17 35 57.4 42.9N 13.0E 3.2L
NEIC M_L3.4(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 22 20 06 45±1.0 **42.83N**±.041 **12.91E**±.056 **11**±8.4 **41 0-7**
ROM X 22 20 06 43.7 42.9N 13.0E 5 3.4D **¶97x3878**
NEIC X 22 20 06 44.1 42.76N 12.91E 10
LDG X 22 20 06 44.5 42.8N 13.2E 3.2L
NEIC M_L3.6(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 22 20 12 16±3.3 **42.82N**±.043 **12.82E**±.064 **15**±28 **32 0-7**
LDG X 22 20 12 14.1 42.7N 13.2E 3.0L **¶97x3879**
ROM X 22 20 12 14.8 42.9N 13.0E 5 3.1D
NEIC X 22 20 12 16.9 43.01N 12.73E 10
NEIC M_L3.2(VIE). Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 22 22 08 00±1.1 **42.87N**±.070 **13.0E**±.15 **6**±17 **7 0-5**
ROM X 22 22 07 59.8 42.9N 13.0E 10 3.0D **¶97x3888**
ISC X 23 03 18 05±1.0 **42.97N**±.049 **12.75E**±.072 **14**±8.0 **23 0-7**
LDG X 23 03 18 04.0 42.9N 13.1E 3.0L **¶97x3918**
NEIC X 23 03 18 08.1 43.28N 12.50E 10
NEIC M_D2.9(ROM). Less reliable solution.
NEIC ML 2.5 (VIE). Felt I=III MCS in the epicentral area.
ISC X 23 08 58 43.7±.83 **43.06N**±.029 **12.88E**±.036 **2**±7.0 **84 0-8**
ROM X 23 08 58 42.8 43.0N 13.0E 5 3.6D **¶97x3954**
LDG X 23 08 58 43.7 42.9N 13.2E 3.9L
NEIC X 23 08 58 45.0 43.09N 12.83E 10
STR X 23 08 58 51.3 43.45N 12.65E 10 4.0L
NEIC M_L4.3(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 23 19 04 54±1.0 **42.98N**±.045 **12.76E**±.056 **15**±7.6 **33 0-7**
ROM X 23 19 04 52.0 43.0N 12.9E 5 3.2D **¶97x4050**
NEIC X 23 19 04 53.1 42.99N 12.72E 10
LDG X 23 19 04 53.9 43.0N 12.9E 3.1L
NEIC M_L3.3(VIE). Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 23 21 39 08.3±.97 **42.87N**±.071 **13.0E**±.14 **3**±25 **6 0-1**
ROM X 23 21 39 07.9 42.9N 13.0E 10 3.1D **¶97x4070**
ISC X 24 02 29 31.7±.63 **42.90N**±.046 **12.91E**±.092 **7** **13 0-6**
ROM X 24 02 29 31.1 42.9N 12.9E 7 3.0D **¶97x4096**
ISC X 25 03 08 05.4±.55 **42.83N**±.019 **13.04E**±.021 **6**±4.2 **4.3b,3.9s 214 0-88**
PDG X 25 03 08 04.7 42.3N 13.0E 11 4.1L **¶97x4261**
ROM X 25 03 08 04.9 42.8N 13.1E 5 4.0D
NEIC X 25 03 08 06.1 42.84N 13.01E 10 4.4b
STR X 25 03 08 06.4 42.78N 13.15E 6 4.5L
LDG X 25 03 08 06.4 42.8N 13.3E 4.0L
EIDC X 25 03 08 09.4 42.8N 13.1E 19 3.9b,3.8s
NEIC M_L4.6(VIE)
NEIC Felt I=VI MCS in the epicentral area.
ISC X 25 03 12 56.9±.66 **42.83N**±.044 **13.1E**±.10 **9**±6.6 **23 0-7**
ROM X 25 03 12 56.5 42.8N 13.1E 8 3.1D **¶97x4262**
LDG X 25 03 12 59.2 42.7N 13.0E 2.9L
ISC X 25 08 49 02.3±.63 **42.90N**±.034 **12.90E**±.066 **6**±6.9 **29 0-7**
ROM X 25 08 49 01.9 42.9N 13.0E 7 3.3D **¶97x4301**
NEIC X 25 08 49 02.3 42.88N 12.91E 10
LDG X 25 08 49 06.0 42.7N 12.8E 3.2L
NEIC Less reliable solution.
NEIC Felt I=V MCS in the epicentral area.
ISC X 25 09 12 47.8±.73 **43.03N**±.052 **12.89E**±.098 **11**±9.4 **10 0-3**
ROM X 25 09 12 47.4 43.0N 12.9E 8 3.2D **¶97x4305**
ISC X 25 19 40 31.9±.75 **42.50N**±.040 **13.27E**±.069 **10**±7.2 **26 0-7**
ROM X 25 19 40 31.4 42.5N 13.3E 3 3.2D **¶97x4364**
LDG X 25 19 40 32.7 42.5N 13.5E 3.1L
ISC X 25 19 48 54.2±.82 **42.50N**±.035 **13.26E**±.046 **2**±7.3 **62 0-8**
ROM X 25 19 48 54.1 42.5N 13.2E 5 3.5D **¶97x4365**
NEIC X 25 19 48 55.4 42.48N 13.19E 10
LDG X 25 19 48 56.0 42.5N 13.4E 3.2L
NEIC M_L3.5(VIE)
ISC X 25 19 57 08.7±.57 **42.46N**±.036 **13.27E**±.060 **18**±7.7 **42 0-7**
NEIC X 25 19 57 07.5 42.48N 13.33E 10 **¶97x4367**
ROM X 25 19 57 08.2 42.5N 13.2E 7 3.5D
LDG X 25 19 57 09.0 42.4N 13.4E 3.2L
ISC X 25 20 02 32.3±.77 **42.47N**±.045 **13.24E**±.071 **13**±7.0 **24 0-7**
LDG X 25 20 02 30.8 42.4N 13.6E 3.0L **¶97x4369**
ROM X 25 20 02 31.7 42.5N 13.2E 5 3.2D
NEIC X 25 20 02 35.2 42.72N 12.99E 10
NEIC Poor solution.
ISC X 27 01 55 50.6±.71 **43.03N**±.047 **12.9E**±.10 **6** **9 0-1**
ROM X 27 01 55 50.0 43.0N 12.9E 6 3.1D **¶97x4553**
ISC X 27 03 17 05.5±.84 **43.09N**±.056 **12.8E**±.11 **6**±14 **7 0-1**
ROM X 27 03 17 05.0 43.1N 12.8E 8 3.0D **¶97x4560**
ISC X 27 04 16 22±1.1 **42.59N**±.048 **13.3E**±.13 **3**±12 **10 0-1**
ROM X 27 04 16 21.5 42.6N 13.3E 10 3.2D **¶97x4566**
ISC X 27 11 14 45.4±.66 **42.92N**±.042 **12.9E**±.10 **5** **12 0-6**
ROM X 27 11 14 44.6 42.9N 12.9E 5 3.1D **¶97x4603**
ISC X 28 00 23 46.7±.71 **42.96N**±.027 **12.73E**±.036 **2**±6.2 **93 0-9**
ROM X 28 00 23 46.5 43.0N 12.8E 9 3.3D **¶97x4675**
LDG X 28 00 23 47.2 42.9N 13.1E 3.4L
NEIC X 28 00 23 47.7 42.97N 12.70E 10
NEIC M_L3.9(VIE)
NEIC Felt I=V MCS in the epicentral area.
ISC X 28 04 08 04.8±.36 **43.14N**±.033 **12.66E**±.051 **10** **42 0-7**
ROM X 28 04 08 04.2 43.2N 12.7E 10 3.3D **¶97x4700**
NEIC X 28 04 08 05.1 43.11N 12.60E 10
LDG X 28 04 08 07.0 43.1N 12.7E 3.1L
NEIC M_L3.6(VIE)
NEIC Felt I=IV MCS in the epicentral area.
ISC X 28 04 49 06.7±.71 **43.09N**±.052 **12.75E**±.098 **10** **12 0-6**
ROM X 28 04 49 05.8 43.2N 12.7E 10 3.0D **¶97x4709**
ISC X 28 07 42 00.6±.68 **42.94N**±.036 **12.92E**±.057 **4**±6.7 **35 0-7**
NEIC X 28 07 41 55.0 42.49N 13.37E 10 **¶97x4726**
ROM X 28 07 42 00.3 43.0N 12.9E 10 3.1D
LDG X 28 07 42 00.7 42.9N 13.3E 3.4L
NEIC M_L3.5(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 28 15 56 52.4±.55 **42.89N**±.040 **13.00E**±.095 **4** **14 0-6**
ROM X 28 15 56 51.7 42.9N 13.0E 4 3.1D **¶97x4786**
ISC X 29 07 35 05.6±.61 **42.89N**±.036 **12.98E**±.069 **8**±6.0 **35 0-7**
LDG X 29 07 35 01.9 42.6N 13.5E 3.4L **¶97x4876**
ROM X 29 07 35 05.3 42.9N 13.0E 7 3.3D
NEIC X 29 07 35 05.7 42.89N 12.98E 10
NEIC Felt I=IV MCS in the epicentral area.
ISC X 30 16 25 29.2±.75 **42.99N**±.044 **12.9E**±.10 **3**±10 **14 0-6**
ROM X 30 16 25 28.8 43.0N 12.9E 6 3.0D **¶97x5066**
ISC X 31 12 48 00.4±.68 **42.98N**±.042 **12.96E**±.090 **7**±7.7 **16 0-5**
ROM X 31 12 47 59.9 43.0N 12.9E 5 3.0D **¶97x5184**
ISC X 31 23 43 38.6±.63 **42.99N**±.032 **12.83E**±.059 **9**±5.8 **33 0-7**
NEIC X 31 23 43 37.7 42.89N 12.84E 10 **¶97x5240**
ROM X 31 23 43 38.4 43.0N 12.9E 8 3.0D
LDG X 31 23 43 39.3 42.9N 13.0E 3.1L
NEIC M_L3.3(VIE), Less reliable solution.
NEIC Felt I=IV MCS in the epicentral area.
ISC X 31 23 44 07.3±.81 **43.14N**±.091 **12.64E**±.084 **0** **9 0-7**
LDG X 31 23 44 10.6 42.9N 12.6E 3.0L **¶97x5241**
ISC XI 01 23 21 56.7±.61 **42.85N**±.032 **12.91E**±.060 **8**±5.9 **37 0-7**
ROM XI 01 23 21 56.2 42.9N 13.0E 5 3.3D **¶97xi0159**
NEIC XI 01 23 21 57.0 42.88N 12.88E 10
LDG XI 01 23 21 58.2 42.9N 13.1E 3.1L
NEIC M_L3.2(VIE), Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.
ISC XI 02 04 14 54.8±.63 **42.95N**±.031 **12.82E**±.056 **6**±6.1 **36 0-7**
NEIC XI 02 04 14 53.5 42.83N 12.91E 10 **¶97xi0193**
ROM XI 02 04 14 54.5 43.0N 12.9E 6 3.1D
LDG XI 02 04 15 00.5 42.9N 12.5E 2.9L
NEIC Less reliable solution.
NEIC Felt I=III MCS in the epicentral area.
ISC XI 02 05 21 30.3±.68 **42.94N**±.032 **12.75E**±.056 **8**±6.2 **34 0-7**
ROM XI 02 05 21 30.1 43.0N 12.9E 8 3.1D **¶97xi0200**
LDG XI 02 05 21 30.4 42.9N 13.0E 2.9L
NEIC XI 02 05 21 32.5 43.16N 12.56E 10
NEIC ML 2.7 (VIE). Felt I=III MCS in the epicentral area.
ISC XI 02 07 19 49.8±.63 **42.94N**±.032 **12.85E**±.057 **6**±6.3 **30 0-7**
ROM XI 02 07 19 49.6 42.9N 12.9E 5 3.1D **¶97xi0214**
NEIC XI 02 07 19 52.2 43.13N 12.69E 10
LDG XI 02 07 19 53.0 43.0N 12.9E 2.9L
NEIC Less reliable solution.
NEIC ML 2.6 (VIE). Felt I=III MCS in the epicentral area.

Agency		Origin Time		ϕ	λ	h	Mag	n	Δ-Rng
		mo d h m s		°	°	km			°
ISC	**XI**	**02 22 18 28.8**±.70		**43.00N**±.039	**12.86E**±.092	**4**±9.1		**13**	**0-3**
ROM	XI	02 22 18 28.3		43.0N	12.9E	7	3.0D		¶97xi0346
ISC	**XI**	**03 01 17 56.3**±.64		**42.94N**±.032	**12.84E**±.060	**9**±6.0		**33**	**0-7**
ROM	XI	03 01 17 56.0		43.0N	12.9E	7	3.3D		¶97xi0371
NEIC	XI	03 01 17 56.7		42.96N	12.78E	10			
LDG	XI	03 01 17 57.8		42.9N	12.9E		3.0L		
NEIC	Less reliable solution.								
NEIC	ML 2.9 (VIE). Felt I=III MCS in the epicentral area.								
ISC	**XI**	**03 03 59 31.5**±.66		**43.02N**±.026	**12.80E**±.037	**6**±5.6		**77**	**0-8**
ROM	XI	03 03 59 31.0		43.0N	12.9E	9	3.4D		¶97xi0398
NEIC	XI	03 03 59 32.1		43.02N	12.77E	10			
LDG	XI	03 03 59 35.2		43.0N	12.7E		3.4L		
STR	XI	03 03 59 44.1		43.32N	12.02E	10	3.6L		
NEIC	M_L3.5(VIE)								
NEIC	MD 3.4 (ROM). Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**03 04 14 17.9**±.79		**42.21N**±.054	**12.95E**±.094	**11**±11		**11**	**0-2**
ROM	XI	03 04 14 17.3		42.2N	12.9E	5	3.0D		¶97xi0404
ISC	**XI**	**03 13 33 51.8**±.85		**42.85N**±.059	**13.0E**±.14	**6**±14		**8**	**0-1**
ROM	XI	03 13 33 51.4		42.9N	13.0E	5	3.1D		¶97xi0471
ISC	**XI**	**04 22 53 58.1**±.75		**42.97N**±.029	**12.70E**±.050	**0**±6.9		**49**	**0-7**
LDG	XI	04 22 53 56.4		42.8N	13.1E		3.3L		¶97xi0701
ROM	XI	04 22 53 58.0		43.0N	12.9E	7	3.3D		
NEIC	XI	04 22 53 58.5		42.94N	12.75E	10			
NEIC	M_L3.4(VIE)								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**05 11 09 10.1**±.86		**42.96N**±.047	**12.83E**±.058	**8**±6.5		**40**	**0-7**
NEIC	XI	05 11 09 03.8		42.42N	13.22E	10			¶97xi0781
ROM	XI	05 11 09 09.7		43.0N	12.9E	4	3.4D		
LDG	XI	05 11 09 10.0		42.8N	13.1E		3.2L		
NEIC	M_L3.4(VIE)								
NEIC	Felt I=V MCS in the epicentral area.								
ROM	**XI**	**05 20 25 53.1**		**42.0N**	**12.8E**	**4**	**3.1D**		**¶97xi0859**
LDG	XI	05 20 25 48.9		40.6N	12.3E		3.0L		
ISC	**XI**	**06 05 38 21**±1.3		**42.03N**±.083	**12.9E**±.16	**10**		**4**	**0-1**
ROM	XI	06 05 38 21.1		42.0N	12.8E	10	2.1D		¶97xi0929
ISC	Poorly determined								
ISC	**XI**	**06 06 52 12**±1.3		**42.02N**±.086	**12.9E**±.15	**10**		**4**	**0-1**
ROM	XI	06 06 52 12.2		42.0N	12.8E	10	2.1D		¶97xi0938
ISC	Poorly determined								
ISC	**XI**	**06 10 50 39**±1.3		**42.03N**±.087	**12.9E**±.15	**10**		**4**	**0-1**
ROM	XI	06 10 50 38.4		42.0N	12.8E	10	2.0D		¶97xi0964
ISC	Poorly determined								
ISC	**XI**	**06 17 55 55**±1.0		**42.01N**±.064	**12.8E**±.15	**10**		**5**	**0-1**
ROM	XI	06 17 55 54.3		42.0N	12.8E	10	2.2D		¶97xi1009
ROM	**XI**	**07 11 47 29.9**		**43.3N**	**11.1E**	**8**	**2.2D**		**¶97xi1121**
ISC	**XI**	**08 00 23 09.7**±.63		**43.12N**±.032	**12.70E**±.055	**9**±5.7		**40**	**0-8**
LDG	XI	08 00 23 09.3		42.9N	12.9E		3.1L		¶97xi1192
ROM	XI	08 00 23 09.6		43.1N	12.8E	9	3.2D		
NEIC	XI	08 00 23 09.8		43.11N	12.65E	10			
NEIC	M_L3.4(VIE), Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**08 00 31 28.7**±.65		**43.13N**±.037	**12.72E**±.067	**9**±6.3		**28**	**0-7**
ROM	XI	08 00 31 28.5		43.1N	12.8E	7	3.0D		¶97xi1193
LDG	XI	08 00 31 28.7		43.0N	12.9E		3.0L		
NEIC	XI	08 00 31 30.1		43.18N	12.53E	10			
NEIC	M_L3.1(VIE), ess reliable solution.								
NEIC	Felt I=III MCS in the epicentral area.								
ISC	**XI**	**08 12 51 28.8**±.77		**42.96N**±.043	**12.9E**±.10	**2**±10		**12**	**0-5**
ROM	XI	08 12 51 28.8		43.0N	12.9E	8	3.0D		¶97xi1282
ISC	**XI**	**08 14 56 32.5**±.64		**43.90N**±.050	**12.45E**±.077	**18**±8.3		**29**	**0-7**
LDG	XI	08 14 56 34.1		43.9N	12.6E		2.8L		¶97xi1296
NEIC	XI	08 14 56 34.2		44.11N	12.26E	10			
NEIC	Single network solution.								
ISC	**XI**	**08 15 31 53.5**±.57		**42.89N**±.020	**12.95E**±.021	**5**±4.4	**4.5b**,5.0s	**202**	**0-83**
LDG	XI	08 15 31 52.2		42.7N	13.3E		4.2L		¶97xi1303
ROM	XI	08 15 31 53.3		42.9N	13.1E	10	4.0D		
BJI	XI	08 15 31 53.9		43.16N	12.53E	15	4.7b,5.2s		
NEIC	XI	08 15 31 54.2		42.90N	12.94E	10	4.4b		
EIDC	XI	08 15 31 54.3		42.9N	12.8E	0	4.2b,3.9L		
STR	XI	08 15 32 00.6		43.15N	12.62E	10	4.6L		
PDG	XI	08 15 32 02.5		41.6N	13.9E	15	4.1L		
NEIC	M_L4.4(FUR)								
NEIC	ML 3.8 (VIE). MD 3.9 (ROM). Felt I=V MCS in the epicentral area.								
ISC	**XI**	**08 15 46 24.7**±.79		**42.87N**±.044	**13.1E**±.13	**5**		**13**	**0-6**
ROM	XI	08 15 46 24.3		42.9N	13.0E	5	3.0D		¶97xi1307
ISC	**XI**	**08 16 03 10.8**±.65		**42.84N**±.034	**12.91E**±.062	**10**±6.3		**36**	**0-20**
NEIC	XI	08 16 03 09.8		42.79N	12.91E	10			¶97xi1313
ROM	XI	08 16 03 10.5		42.9N	13.0E	7	3.5D		
EIDC	XI	08 16 03 25.4		43.7N	13.1E	0	3.6L		
NEIC	M_L3.6(VIE), Less reliable solution.								
NEIC	Felt I=V MCS in the epicentral area.								
ISC	**XI**	**08 21 23 07.0**±.64		**43.86N**±.051	**12.39E**±.078	**15**±9.6		**22**	**0-6**
NEIC	XI	08 21 23 04.3		43.96N	12.65E	10			¶97xi1353
LDG	XI	08 21 23 06.7		43.9N	12.7E		2.7L		
NEIC	Poor solution.								
ISC	**XI**	**09 16 34 48.1**±.61		**42.89N**±.026	**12.93E**±.034	**7**±5.1		**85**	**0-20**
LDG	XI	09 16 34 45.0		42.7N	13.5E		3.8L		¶97xi1472
ROM	XI	09 16 34 47.8		42.9N	13.0E	9	3.8D		
NEIC	XI	09 16 34 48.3		42.89N	12.93E	10			
STR	XI	09 16 34 56.0		43.23N	12.65E	10	4.1L		
EIDC	XI	09 16 35 04.8		44.1N	13.3E	0	3.7L		
NEIC	M_L4.1(STR)								
NEIC	Felt I=V MCS in the epicentral area.								
ISC	**XI**	**09 17 14 10.3**±.55		**42.89N**±.038	**12.97E**±.084	**16**±8.3		**29**	**0-7**
LDG	XI	09 17 14 04.2		42.6N	13.7E		3.2L		¶97xi1477
ROM	XI	09 17 14 10.0		42.9N	13.0E	10	3.1D		
NEIC	XI	09 17 14 11.2		43.05N	12.83E	10			
NEIC	Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**09 19 07 32.4**±.55		**42.88N**±.019	**12.97E**±.019	**4**±4.0	**4.7b,4.8s**	**261**	**0-88**
ROM	XI	09 19 07 32.6		42.9N	13.1E	11	4.6D		¶97xi1498
LDG	XI	09 19 07 32.8		42.7N	13.2E		4.5L		
MOS	XI	09 19 07 33.3		42.9N	13.0E	10	5.3b,4.7s		
NEIC	XI	09 19 07 33.3		42.90N	12.95E	10	4.8b		
EIDC	XI	09 19 07 33.5		42.9N	12.8E	0	4.3b,4.6s		
PDG	XI	09 19 07 33.7		42.2N	12.9E	13	4.7L,4.6D		
BJI	XI	09 19 07 34.3		43.31N	13.13E	5	5.1b,5.1s		
STR	XI	09 19 07 39.5		43.02N	12.81E	10	5.0L		
NEIC	M_L5.0(FUR)								
NEIC	ML 4.7 (FBB). Additional damage I=VII MCS in the Sellano area. Felt as far as Rome and Viterbo.								
ISC	**XI**	**09 20 05 43.9**±.68		**42.87N**±.034	**12.92E**±.061	**10**±6.2		**36**	**0-8**
LDG	XI	09 20 05 40.8		42.7N	13.5E		3.3L		¶97xi1503
ROM	XI	09 20 05 43.9		42.9N	13.0E	10	3.1D		
NEIC	XI	09 20 05 45.9		43.07N	12.77E	10			
NEIC	M_L3.3(VIE). Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**09 21 06 39.8**±.74		**42.83N**±.042	**12.95E**±.050	**11**±6.4		**41**	**0-8**
ROM	XI	09 21 06 39.4		42.8N	13.0E	9	3.4D		¶97xi1511
NEIC	XI	09 21 06 39.8		42.86N	12.89E	10			
NEIC	M_L3.6(VIE), Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**10 06 14 05**±3.6		**43.5N**±.37	**11.2E**±.12	**10**		**4**	**1-1**
ROM	XI	10 06 14 05.1		43.6N	11.2E	10	2.4D		¶97xi1569
ISC	Poorly determined								
ISC	**XI**	**10 12 26 08.5**±.73		**43.12N**±.033	**12.63E**±.062	**1**±7.4		**39**	**0-7**
ROM	XI	10 12 26 08.1		43.2N	12.7E	3	3.0D		¶97xi1612
LDG	XI	10 12 26 10.4		43.0N	12.7E		3.0L		
NEIC	XI	10 12 26 12.8		43.36N	12.40E	10			
NEIC	M_L3.5(VIE)								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**10 17 08 52.1**±.71		**43.05N**±.030	**12.82E**±.043	**10**±5.7	**3.8b**	**55**	**0-81**
LDG	XI	10 17 08 50.3		42.9N	13.2E		3.5L		¶97xi1645
ROM	XI	10 17 08 52.0		43.1N	12.9E	10	3.6D		
NEIC	XI	10 17 08 52.4		43.09N	12.77E	10			
EIDC	XI	10 17 08 55.0		43.2N	13.2E	0	3.8b,3.8L		
NEIC	M_L3.9(VIE)								
NEIC	Felt I=V MCS in the epicentral area.								
ISC	**XI**	**10 19 35 54.4**±.73		**42.82N**±.033	**12.92E**±.058	**4**±7.4		**35**	**0-7**
ROM	XI	10 19 35 53.9		42.8N	13.0E	4	3.5D		¶97xi1663
NEIC	XI	10 19 35 54.3		42.80N	12.93E	10			
NEIC	M_L3.4(VIE). Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**10 22 20 55.9**±.73		**42.88N**±.029	**12.93E**±.038	**10**±6.3		**70**	**0-8**
LDG	XI	10 22 20 53.9		42.8N	13.4E		3.3L		¶97xi1685
ROM	XI	10 22 20 56.0		42.9N	12.9E	10	3.2D		
NEIC	XI	10 22 20 56.0		42.89N	12.91E	10			
STR	XI	10 22 21 03.8		43.40N	12.84E	10	3.9L		
NEIC	M_L3.7(VIE)								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**10 22 22 33.6**±.61		**42.84N**±.029	**12.93E**±.032	**8**±5.0	**4.0b**	**82**	**0-75**
LDG	XI	10 22 22 33.7		42.7N	13.2E		3.5L		¶97xi1686
ROM	XI	10 22 22 33.8		42.8N	13.0E	10	3.7D		
NEIC	XI	10 22 22 34.6		42.91N	12.85E	10	4.1b		
PDG	XI	10 22 22 37.2		41.6N	13.3E	12	4.1L		
EIDC	XI	10 22 22 40.9		42.9N	13.0E	44	3.8L,3.6b		
NEIC	M_L4.2(VIE)								
NEIC	Felt I=V MCS in the epicentral area.								
ISC	**XI**	**10 22 45 40**±1.3		**42.05N**±.085	**12.9E**±.16	**10**		**4**	**0-1**
ROM	XI	10 22 45 40.0		42.0N	12.8E	10	2.2D		¶97xi1687
ISC	Poorly determined								
ISC	**XI**	**11 00 09 20.4**±.72		**42.84N**±.037	**12.94E**±.063	**12**±6.6		**30**	**0-7**
LDG	XI	11 00 09 15.0		42.5N	13.6E		3.2L		¶97xi1694
ROM	XI	11 00 09 20.6		42.8N	13.0E	10	3.2D		
NEIC	XI	11 00 09 20.7		42.80N	12.85E	10			
NEIC	M_L3.4(VIE), Less reliable solution.								
NEIC	ML 3.2 (LDG). Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**12 10 03 21.9**±.68		**42.98N**±.049	**12.9E**±.11	**5**		**10**	**0-6**
ROM	XI	12 10 03 21.4		43.0N	12.9E	5	3.0D		¶97xi1964
ISC	**XI**	**12 12 34 30.4**±.74		**42.98N**±.032	**12.88E**±.054	**9**±6.2		**39**	**0-8**
NEIC	XI	12 12 34 29.5		42.89N	12.87E	10			¶97xi1984
ROM	XI	12 12 34 30.2		43.0N	12.9E	5	3.5D		
LDG	XI	12 12 34 33.8		43.0N	12.8E		3.3L		
NEIC	M_L3.8(VIE)								
NEIC	Felt I=V MCS in the epicentral area.								
ISC	**XI**	**12 15 24 24.1**±.89		**43.01N**±.040	**12.57E**±.085	**8**±8.4		**24**	**0-8**
ROM	XI	12 15 24 23.0		43.1N	12.8E	5	3.3D		¶97xi2003
LDG	XI	12 15 24 23.5		42.9N	12.8E		3.2L		
NEIC	XI	12 15 24 28.2		43.31N	12.15E	10			
NEIC	M_L3.4(VIE), Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**12 16 03 16.5**±.50		**42.99N**±.033	**12.93E**±.082	**5**		**20**	**0-6**
ROM	XI	12 16 03 15.5		43.0N	13.0E	5	3.3D		¶97xi2007
ISC	**XI**	**13 00 14 59.5**±.73		**42.91N**±.034	**12.78E**±.061	**8**±6.8		**32**	**0-7**
ROM	XI	13 00 14 59.0		42.9N	12.9E	6	3.1D		¶97xi2054
NEIC	XI	13 00 14 59.3		42.89N	12.77E	10			
LDG	XI	13 00 15 00.1		42.9N	13.0E		3.1L		
NEIC	M_L3.2(VIE), Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**13 07 57 40.4**±.76		**42.97N**±.039	**12.88E**±.088	**0**±9.1		**18**	**0-6**
ROM	XI	13 07 57 40.1		43.0N	12.9E	5	3.0D		¶97xi2095
ISC	**XI**	**13 23 34 05**±2.0		**43.6N**±.23	**11.19E**±.099	**5**		**4**	**0-1**
ROM	XI	13 23 34 04.2		43.6N	11.2E	5	2.2D		¶97xi2205
ISC	Poorly determined								
ISC	**XI**	**14 00 20 42.1**±.71		**42.94N**±.031	**12.82E**±.052	**11**±6.1		**43**	**0-8**
ROM	XI	14 00 20 41.6		43.0N	12.9E	5	3.2D		¶97xi2209
NEIC	XI	14 00 20 43.4		43.09N	12.70E	10			
LDG	XI	14 00 20 44.6		43.0N	12.8E		3.3L		
NEIC	M_L3.6(VIE)								
NEIC	Felt I=IV MCS in the epicentral area.								
ISC	**XI**	**16 17 27 24**±1.1		**42.79N**±.083	**13.0E**±.13	**5**		**7**	**0-1**
ROM	XI	16 17 27 23.2		42.8N	13.0E	5	3.0D		¶97xi2676
ISC	**XI**	**17 07 42 42.5**±.75		**42.94N**±.041	**12.88E**±.090	**7**±7.6		**19**	**0-6**
ROM	XI	17 07 42 42.1		42.9N	12.9E	5	3.1D		¶97xi2760
ISC	**XI**	**17 11 07 28.0**±.64		**43.09N**±.031	**12.81E**±.042	**10**±5.0	3.8b	**62**	**0-75**
LDG	XI	17 11 07 26.7		42.9N	13.1E		3.5L		¶97xi2783
NEIC	XI	17 11 07 27.3		43.05N	12.79E	10			
ROM	XI	17 11 07 28.5		43.1N	12.8E	5	3.5D		
EIDC	XI	17 11 07 30.8		43.2N	13.4E	0	3.9L,3.8b		
STR	XI	17 11 07 32.8		43.12N	12.43E	10	4.1L		
NEIC	M_L4.0(VIE)								
NEIC	Felt I=V MCS in the epicentral area.								
ISC	**XI**	**17 22 51 57.4**±.65		**43.05N**±.034	**12.83E**±.055	**11**±5.5		**36**	**0-7**
NEIC	XI	17 22 51 56.4		42.99N	12.85E	10			¶97xi2872
LDG	XI	17 22 51 56.5		42.9N	13.1E		3.3L		
ROM	XI	17 22 51 56.8		43.1N	12.9E	10	3.3D		
NEIC	M_L3.6(VIE), Less reliable solution.								
NEIC	Felt I=IV MCS in the epicentral area.								

ISC	**XI**	**19 02 02 49.5**±.85	**42.94N**±.032	**12.73E**±.049	**2**±7.3			**49**	**0-8**	
LDG	XI	19 02 02 49.2	42.8N	13.1E		3.3L		**¶97xi3107**		
ROM	XI	19 02 02 49.4	42.9N	12.9E	5	3.3D				
NEIC	XI	19 02 02 50.7	42.98N	12.69E	10					
STR	XI	19 02 02 57.8	43.12N	12.23E	10	4.0L				
NEIC	M_L3.5(VIE)									
NEIC	Felt I=IV MCS in the epicentral area.									
ISC	**XI**	**19 07 41 44.4**±.80	**42.91N**±.041	**12.83E**±.062	**8**±6.7			**30**	**0-8**	
LDG	XI	19 07 41 43.5	42.8N	13.2E		3.4L		**¶97xi3162**		
ROM	XI	19 07 41 44.3	42.9N	12.9E	10	3.3D				
NEIC	XI	19 07 41 45.8	43.01N	12.74E	10					
NEIC	M_L3.4(VIE). Less reliable solution.									
NEIC	Felt I=IV MCS in the epicentral area.									
ISC	**XI**	**19 14 25 19.5**±.85	**42.96N**±.069	**12.9E**±.13	**8**±12			**9**	**0-1**	
ROM	XI	19 14 25 19.1	43.0N	12.9E	7	3.0D		**¶97xi3237**		
ISC	**XI**	**19 15 09 46.4**±.74	**42.92N**±.027	**12.94E**±.039	**4**±6.3			**75**	**0-8**	
ROM	XI	19 15 09 45.6	42.9N	13.0E	5	3.5D		**¶97xi3245**		
LDG	XI	19 15 09 46.8	42.9N	13.3E		3.6L				
NEIC	XI	19 15 09 47.3	42.95N	12.90E	10					
STR	XI	19 15 09 53.9	43.12N	12.43E	10	4.1L				
NEIC	M_L4.0(VIE)									
NEIC	Felt I=V MCS in the epicentral area.									
ISC	**XI**	**20 03 58 55.6**±.66	**42.85N**±.031	**12.96E**±.043	**7**±5.6			**65**	**0-8**	
NEIC	XI	20 03 58 54.8	42.76N	12.99E	10			**¶97xi3390**		
ROM	XI	20 03 58 55.0	42.9N	12.9E	5	3.5D				
LDG	XI	20 03 58 57.6	42.7N	13.0E		3.6L				
STR	XI	20 03 59 02.8	43.12N	12.70E	10	4.0L				
NEIC	M_L3.9(VIE)									
NEIC	Felt I=IV MCS in the epicentral area.									
ISC	**XI**	**20 22 48 24.5**±.59	**43.03N**±.041	**12.86E**±.095	**8**			**12**	**0-4**	
ROM	XI	20 22 48 23.3	43.1N	12.9E	8	3.0D		**¶97xi3545**		
ISC	**XI**	**21 20 39 11.7**±.69	**42.98N**±.038	**12.78E**±.058	**8**±6.0			**29**	**0-7**	
ROM	XI	21 20 39 11.2	43.0N	12.9E	6	3.0D		**¶97xi3737**		
NEIC	XI	21 20 39 11.9	43.00N	12.73E	10					
LDG	XI	21 20 39 13.5	43.1N	12.9E		3.0L				
NEIC	M_L3.0(VIE)									
NEIC	Felt I=III MCS in the epicentral area.									
ISC	**XI**	**23 00 01 22.7**±.74	**43.07N**±.056	**12.8E**±.11	**19**±9.2			**18**	**0-7**	
NEIC	XI	23 00 01 22.5	43.13N	12.70E	10			**¶97xi3985**		
LDG	XI	23 00 01 24.7	43.0N	12.7E		2.8L				
NEIC	Poor solution.									
ISC	**XI**	**25 13 47 13.9**±.66	**42.97N**±.031	**12.79E**±.049	**7**±5.4	4.0b		**51**	**0-59**	
LDG	XI	25 13 47 12.7	42.8N	13.1E		3.6L		**¶97xi4528**		
ROM	XI	25 13 47 13.7	43.0N	12.8E	7	3.5D				
NEIC	XI	25 13 47 14.1	42.99N	12.74E	10					
EIDC	XI	25 13 47 15.6	43.0N	13.2E	0	3.9b,3.7L				
STR	XI	25 13 47 24.3	43.35N	12.16E	10	3.9L				
NEIC	M_L3.8(VIE)									
NEIC	Felt I=V MCS in the epicentral area.									
ISC	**XI**	**26 01 28 47.7**±.77	**42.80N**±.055	**13.0E**±.12	**6**±13			**9**	**0-3**	
ROM	XI	26 01 28 46.9	42.8N	13.0E	3	3.1D		**¶97xi4606**		
ISC	**XI**	**26 17 50 06.4**±.86	**42.93N**±.059	**12.9E**±.13	**7**±15			**7**	**0-1**	
ROM	XI	26 17 50 05.9	42.9N	12.9E	6	3.0D		**¶97xi4726**		
ISC	**XI**	**27 07 02 35.0**±.61	**42.97N**±.024	**12.91E**±.033	**5**±5.0	**4.1b**		**109**	**0-68**	
ROM	XI	27 07 02 34.4	42.9N	12.9E	4	3.8D		**¶97xi4818**		
EIDC	XI	27 07 02 34.4	42.9N	12.6E	0	4.1b,3.8L				
NEIC	XI	27 07 02 35.5	42.97N	12.87E	10	3.6b				
LDG	XI	27 07 02 36.1	42.8N	13.0E		3.8L				
STR	XI	27 07 02 45.8	43.42N	12.33E	10	4.0L				
NEIC	ML 3.4 (FUR). Felt I=V MCS in the epicentral area.									
ISC	**XI**	**29 03 00 12.7**±.56	**42.93N**±.039	**12.95E**±.096	**7**			**16**	**0-4**	
ROM	XI	29 03 00 12.0	42.9N	12.9E	7	3.4D		**¶97xi5182**		
NEIC	XI	29 03 00 13.2	42.94N	12.93E	10					
NEIC	Felt I=IV MCS in the epicentral area.									
ISC	**XI**	**29 16 00 23.2**±.85	**43.03N**±.054	**13.0E**±.12	**7**±11			**9**	**0-1**	
ROM	XI	29 16 00 22.8	43.0N	13.0E	6	3.1D		**¶97xi5288**		
ISC	**XI**	**29 19 15 16.0**±.65	**43.04N**±.023	**12.86E**±.030	**4**±5.5			**114**	**0-21**	
ROM	XI	29 19 15 15.3	43.0N	13.0E	6	3.8D		**¶97xi5314**		
NEIC	XI	29 19 15 16.5	43.04N	12.84E	10					
LDG	XI	29 19 15 18.5	43.0N	12.9E		3.7L				
STR	XI	29 19 15 23.7	43.17N	12.36E	10	4.0L				
NEIC	M_L3.9(VIE)									
NEIC	ML 3.8 (FUR). Felt I=V MCS in the epicentral area.									
ISC	**XI**	**30 11 24 42.2**±.79	**42.87N**±.022	**12.97E**±.024	**11**±6.3			**157**	**0-21**	
ROM	XI	30 11 24 40.9	42.8N	13.0E	4	3.8D		**¶97xi5407**		
NEIC	XI	30 11 24 42.1	42.88N	12.95E	10	4.1b				
PDG	XI	30 11 24 42.5	42.2N	12.9E	12	4.0L				
LDG	XI	30 11 24 44.3	42.9N	13.1E		4.0L				
STR	XI	30 11 24 50.5	43.22N	12.46E	10	4.4L				
NEIC	M_L4.6(VIE), M_L4.4(STR)									
NEIC	ML 4.3 (FUR). Felt I=V MCS in the epicentral area.									
ISC	**XI**	**30 11 40 37.5**±.80	**42.91N**±.060	**13.1E**±.15	**5**			**10**	**0-6**	
ROM	XI	30 11 40 37.2	42.9N	13.0E	5	3.0D		**¶97xi5409**		
ISC	**XI**	**30 19 47 54.9**±.37	**42.86N**±.031	**12.91E**±.060	**10**			**46**	**0-8**	
ROM	XI	30 19 47 53.2	42.8N	13.0E	5	3.2D		**¶97xi5455**		
NEIC	XI	30 19 47 55.1	42.86N	12.84E	10					
LDG	XI	30 19 47 58.3	42.8N	12.6E		3.2L				
NEIC	M_L3.3(VIE)									
NEIC	Felt I=IV MCS in the epicentral area.									
ISC	**XII**	**01 01 00 44.2**±.75	**43.05N**±.052	**12.9E**±.11	**8**			**8**	**0-1**	
ROM	XII	01 01 00 43.6	43.0N	12.9E	8	2.6D		**¶97xii0007**		
ISC	**XII**	**01 02 49 16.5**±.68	**43.04N**±.046	**12.9E**±.10	**5**			**11**	**0-2**	
ROM	XII	01 02 49 16.0	43.0N	12.9E	5	2.9D		**¶97xii0018**		
ISC	**XII**	**01 05 31 26**±1.3	**43.03N**±.086	**12.9E**±.16	**10**			**4**	**0-1**	
ROM	XII	01 05 31 25.5	43.0N	12.9E	10	2.3D		**¶97xii0037**		
ISC	Poorly determined									
ISC	**XII**	**01 10 16 55**±1.2	**42.94N**±.081	**12.9E**±.17	**12**±14			**5**	**0-1**	
ROM	XII	01 10 16 55.0	42.9N	12.9E	12	2.2D		**¶97xii0068**		
ISC	Poorly determined									
ISC	**XII**	**01 10 26 42**±1.0	**42.99N**±.062	**12.9E**±.14	**8**			**5**	**0-1**	
ROM	XII	01 10 26 41.5	43.0N	12.9E	8	2.5D		**¶97xii0069**		
ISC	**XII**	**01 13 39 44**±1.3	**42.83N**±.085	**13.0E**±.15	**9**			**4**	**0-0**	
ROM	XII	01 13 39 43.1	42.8N	13.0E	9	2.0D		**¶97xii0093**		
ISC	Poorly determined									
ISC	**XII**	**01 16 01 32**±1.2	**43.02N**±.087	**12.8E**±.15	**10**			**4**	**0-1**	
ROM	XII	01 16 01 31.8	43.0N	12.8E	10	2.2D		**¶97xii0110**		
ISC	Poorly determined									
ISC	**XII**	**01 18 43 20**±1.3	**42.81N**±.086	**13.0E**±.15	**9**			**4**	**0-0**	
ROM	XII	01 18 43 20.1	42.8N	13.0E	9	2.3D		**¶97xii0127**		
ISC	Poorly determined									
ISC	**XII**	**01 19 03 53**±1.3	**42.83N**±.085	**13.0E**±.15	**8**			**4**	**0-1**	
ROM	XII	01 19 03 52.4	42.8N	13.0E	8	2.2D		**¶97xii0128**		
ISC	Poorly determined									
ISC	**XII**	**01 22 37 04.5**±.60	**42.86N**±.026	**12.98E**±.037	**6**±5.2			**85**	**0-8**	
ROM	XII	01 22 37 04.2	42.9N	13.0E	10	3.5D		**¶97xii0155**		
NEIC	XII	01 22 37 04.8	42.87N	12.98E	10					
STR	XII	01 22 37 10.3	42.92N	12.45E	6	4.2L				
NEIC	M_L4.1(VIE)									
NEIC	Felt I=V MCS in the epicentral area.									
ISC	**XII**	**02 03 13 52**±1.4	**42.82N**±.089	**13.0E**±.18	**9**			**4**	**0-1**	
ROM	XII	02 03 13 51.4	42.8N	13.0E	9	1.9D		**¶97xii0177**		
ISC	Poorly determined									
ISC	**XII**	**02 06 18 51**±1.3	**43.07N**±.089	**12.8E**±.15	**10**			**4**	**0-0**	
ROM	XII	02 06 18 50.1	43.1N	12.8E	10	2.1D		**¶97xii0193**		
ISC	Poorly determined									
ISC	**XII**	**02 07 34 51**±1.3	**42.81N**±.086	**13.0E**±.16	**10**			**4**	**0-0**	
ROM	XII	02 07 34 51.0	42.8N	13.0E	10	2.1D		**¶97xii0206**		
ISC	Poorly determined									
ISC	**XII**	**02 08 41 51**±1.2	**42.97N**±.081	**12.9E**±.16	**10**			**4**	**0-1**	
ROM	XII	02 08 41 50.6	43.0N	12.9E	10	2.1D		**¶97xii0217**		
ISC	Poorly determined									
ISC	**XII**	**02 09 20 45.6**±.60	**42.86N**±.028	**12.93E**±.039	**8**±5.2			**80**	**0-8**	
ROM	XII	02 09 20 45.2	42.9N	13.0E	5	3.5D		**¶97xii0221**		
NEIC	XII	02 09 20 45.9	42.88N	12.90E	10					
STR	XII	02 09 20 47	42.88N	13E	6	4.0L				
LDG	XII	02 09 20 47.6	42.8N	12.9E		3.7L				
NEIC	M_L4.1(VIE)									
NEIC	Felt I=V MCS in the epicentral area.									
ISC	**XII**	**02 09 23 50**±1.3	**42.84N**±.085	**13.0E**±.16	**10**			**4**	**0-1**	
ROM	XII	02 09 23 49.9	42.9N	13.0E	10	2.0D		**¶97xii0222**		
ISC	Poorly determined									
ISC	**XII**	**02 09 25 51**±1.8	**42.8N**±.10	**13.1E**±.26	**13**			**4**	**0-1**	
ROM	XII	02 09 25 51.2	42.8N	13.0E	13	2.3D		**¶97xii0223**		
ISC	Poorly determined									
ISC	**XII**	**02 11 53 28.5**±.95	**43.02N**±.059	**13.0E**±.13	**9**			**7**	**0-1**	
ROM	XII	02 11 53 27.8	43.0N	12.9E	9	2.3D		**¶97xii0235**		
ISC	**XII**	**02 21 14 54.2**±.92	**43.00N**±.060	**12.8E**±.12	**9**			**6**	**0-1**	
ROM	XII	02 21 14 53.8	43.0N	12.8E	9	2.1D		**¶97xii0312**		
ISC	**XII**	**03 03 50 59**±2.3	**43.10N**±.087	**13.1E**±.49	**10**			**4**	**0-1**	
ROM	XII	03 03 50 58.8	43.1N	13.0E	10	2.3D		**¶97xii0357**		
ISC	Poorly determined									
ISC	**XII**	**03 06 31 56.9**±.74	**43.57N**±.037	**12.07E**±.041	**6**±5.9			**55**	**0-7**	
ROM	XII	03 06 31 56.5	43.7N	12.2E	9	3.2D		**¶97xii0370**		
LDG	XII	03 06 31 57.1	43.5N	12.3E		3.4L				
NEIC	XII	03 06 31 57.4	43.58N	11.99E	10					
STR	XII	03 06 32 00.7	43.62N	11.95E	10	3.7L				
NEIC	M_L3.4(VIE).									
ISC	**XII**	**03 07 16 34.3**±.78	**43.64N**±.057	**12.14E**±.056	**12**±6.7			**22**	**0-7**	
ROM	XII	03 07 16 34.0	43.6N	12.2E	9	3.0D		**¶97xii0376**		
LDG	XII	03 07 16 34.6	43.5N	12.3E		2.9L				
ISC	**XII**	**03 08 20 39.1**±.83	**43.62N**±.090	**12.16E**±.079	**6**±14			**8**	**0-1**	
ROM	XII	03 08 20 38.5	43.6N	12.2E	5	2.6D		**¶97xii0381**		
ISC	**XII**	**03 08 22 15**±1.3	**43.6N**±.18	**12.1E**±.16	**10**			**4**	**0-1**	
ROM	XII	03 08 22 14.4	43.6N	12.2E	10	2.0D		**¶97xii0382**		
ISC	Poorly determined									
ISC	**XII**	**03 11 45 02**±1.4	**43.03N**±.092	**12.9E**±.16	**10**			**4**	**0-0**	
ROM	XII	03 11 45 02.2	43.0N	12.9E	10	2.1D		**¶97xii0414**		
ISC	Poorly determined									
ISC	**XII**	**03 12 11 58**±3.4	**42.8N**±.10	**13.1E**±.39	**10**			**4**	**0-1**	
ROM	XII	03 12 11 58.7	42.8N	13.1E	10	2.3D		**¶97xii0418**		
ISC	Poorly determined									
ISC	**XII**	**03 16 06 33**±1.6	**43.13N**±.061	**12.8E**±.11	**4**±48			**6**	**0-1**	
ROM	XII	03 16 06 33.0	43.1N	12.8E	8	2.2D		**¶97xii0457**		
ISC	**XII**	**03 16 32 08**±1.4	**43.4N**±.12	**12.5E**±.13	**11**±21			**5**	**0-1**	
ROM	XII	03 16 32 08.1	43.4N	12.5E	10	2.0D		**¶97xii0460**		
ISC	Poorly determined									
ROM	**XII**	**03 16 36 34.9**	**43.0N**	**12.9E**	**10**	**2.2D**		**¶97xii0462**		
ISC	**XII**	**03 17 40 21.9**±.61	**42.99N**±.041	**12.90E**±.095	**6**			**13**	**0-6**	
ROM	XII	03 17 40 21.1	43.0N	12.9E	6	2.9D		**¶97xii0470**		
ISC	**XII**	**03 19 09 07**±1.4	**42.97N**±.072	**12.9E**±.25	**10**			**4**	**0-1**	
ROM	XII	03 19 09 07.3	43.0N	12.9E	10	2.3D		**¶97xii0483**		
ISC	Poorly determined									
ISC	**XII**	**03 19 35 15.6**±.81	**43.03N**±.055	**12.8E**±.11	**8**			**8**	**0-1**	
ROM	XII	03 19 35 14.8	43.0N	12.8E	8	2.6D		**¶97xii0490**		
ISC	**XII**	**03 20 17 22**±1.0	**43.01N**±.062	**12.8E**±.13	**5**			**5**	**0-1**	
ROM	XII	03 20 17 21.1	43.0N	12.8E	5	2.4D		**¶97xii0495**		
ISC	**XII**	**03 20 48 45.4**±.87	**42.97N**±.057	**12.9E**±.12	**5**			**7**	**0-1**	
ROM	XII	03 20 48 44.7	43.0N	12.9E	5	2.5D		**¶97xii0500**		
ISC	**XII**	**03 21 26 46**±1.2	**43.03N**±.079	**12.8E**±.17	**14**±12			**5**	**0-1**	
ROM	XII	03 21 26 45.5	43.0N	12.8E	13	1.9D		**¶97xii0505**		
ISC	Poorly determined									
ISC	**XII**	**03 22 19 33**±1.0	**42.84N**±.072	**13.0E**±.15	**14**±11			**6**	**0-1**	
ROM	XII	03 22 19 32.9	42.8N	13.0E	15	2.6D		**¶97xii0511**		
ROM	**XII**	**03 22 46 10.3**	**43.7N**	**12.2E**	**10**	**2.2D**		**¶97xii0515**		
ISC	**XII**	**03 23 56 09.6**±.80	**42.83N**±.050	**13.0E**±.11	**5**			**7**	**0-1**	
ROM	XII	03 23 56 08.9	42.8N	13.0E	5	2.7D		**¶97xii0520**		
ISC	**XII**	**04 02 06 14**±1.2	**43.01N**±.080	**12.8E**±.15	**7**			**4**	**0-1**	
ROM	XII	04 02 06 13.8	43.0N	12.8E	7	2.2D		**¶97xii0533**		
ISC	Poorly determined									
ISC	**XII**	**04 02 16 19**±1.0	**43.04N**±.073	**12.8E**±.13	**9**			**6**	**0-1**	
ROM	XII	04 02 16 17.9	43.1N	12.8E	9	2.1D		**¶97xii0535**		
ISC	**XII**	**04 02 35 27**±1.0	**42.94N**±.064	**12.9E**±.14	**9**			**5**	**0-1**	
ROM	XII	04 02 35 27.0	42.9N	12.9E	9	2.1D		**¶97xii0541**		
ISC	**XII**	**04 03 59 29**±1.2	**42.79N**±.066	**13.1E**±.16	**12**±13			**6**	**0-1**	
ROM	XII	04 03 59 28.9	42.8N	13.0E	10	2.8D		**¶97xii0551**		
ISC	**XII**	**04 04 07 37**±1.1	**42.83N**±.070	**13.0E**±.16	**5**			**5**	**0-1**	
ROM	XII	04 04 07 35.9	42.8N	13.0E	5	2.2D		**¶97xii0553**		
ISC	**XII**	**04 08 31 54**±1.2	**43.04N**±.079	**12.8E**±.17	**14**±12			**5**	**0-1**	
ROM	XII	04 08 31 54.3	43.0N	12.8E	8	2.1D		**¶97xii0582**		
ISC	Poorly determined									
ROM	**XII**	**04 12 38 55.7**	**42.8N**	**12.7E**	**10**	**2.9D**		**¶97xii0614**		
ISC	**XII**	**04 14 35 50.4**±.78	**42.76N**±.052	**13.0E**±.11	**10**			**10**	**0-5**	
ROM	XII	04 14 35 49.7	42.8N	13.0E	10	3.1D		**¶97xii0631**		
ISC	**XII**	**04 16 13 50**±1.3	**43.09N**±.088	**12.8E**±.15	**8**			**4**	**0-0**	
ROM	XII	04 16 13 49.5	43.1N	12.8E	8	2.3D		**¶97xii0646**		
ISC	Poorly determined									
ISC	**XII**	**04 17 03 34.3**±.82	**43.03N**±.053	**12.8E**±.10	**7**			**9**	**0-1**	
ROM	XII	04 17 03 33.5	43.0N	12.9E	7	2.7D		**¶97xii0654**		
ISC	**XII**	**04 17 18 03.1**±.91	**43.01N**±.057	**12.9E**±.12	**8**			**7**	**0-1**	
ROM	XII	04 17 18 02.6	43.0N	12.9E	8	2.5D		**¶97xii0655**		

| Agency | Origin Time | | |

NEIC Less reliable solution.
ISC XII 14 07 25 31±1.0 **43.15N**±.072 **12.8E**±.12 **7** **5 0-1**
ROM XII 14 07 25 30.4 43.2N 12.8E 7 2.3D **¶97xii3111**
ISC XII 14 09 15 38±1.7 **43.2N**±.10 **12.7E**±.24 **14** **4 0-0**
ROM XII 14 09 15 38.0 43.2N 12.7E 14 2.2D **¶97xii3124**
ISC Poorly determined
ISC XII 14 13 16 20±2.9 **43.4N**±.16 **12.7E**±.24 **36**±43 **5 0-1**
ROM XII 14 13 16 19.2 43.4N 12.7E 50 2.1D **¶97xii3154**
ISC Poorly determined
ISC XII 14 18 06 01.0±.85 **43.04N**±.068 **12.81E**±.097 **13**±7.2 **17 0-7**
LDG XII 14 18 06 00.6 43.1N 13.1E 2.6L **¶97xii3175**
ROM XII 14 18 06 00.9 43.1N 12.9E 8 2.9D
ISC XII 14 18 55 56±1.2 **43.4N**±.10 **12.5E**±.11 **10** **5 0-1**
ROM XII 14 18 55 56.1 43.4N 12.5E 10 2.0D **¶97xii3181**
ISC XII 15 00 06 42.1±.86 **43.65N**±.078 **12.18E**±.083 **6**±20 **7 0-1**
ROM XII 15 00 06 41.3 43.6N 12.2E 5 2.5D **¶97xii3211**
ROM XII 15 01 56 07.1 **43.5N** **11.1E** **10** **2.2D** **¶97xii3227**
ISC XII 15 03 04 45.8±.80 **43.02N**±.064 **13.0E**±.13 **5** **7 0-1**
ROM XII 15 03 04 45.4 43.0N 12.9E 5 2.4D **¶97xii3234**
ISC XII 15 04 27 37.7±.81 **42.89N**±.081 **13.0E**±.17 **5** **7 0-1**
ROM XII 15 04 27 37.3 42.9N 13.0E 5 2.4D **¶97xii3241**
ISC XII 15 05 49 40±1.4 **43.00N**±.096 **12.9E**±.17 **10** **4 0-0**
ROM XII 15 05 49 39.6 43.0N 12.9E 10 2.2D **¶97xii3249**
ISC Poorly determined
ISC XII 15 18 53 30±1.3 **43.13N**±.089 **12.8E**±.17 **9** **4 0-0**
ROM XII 15 18 53 29.4 43.1N 12.8E 9 2.2D **¶97xii3324**
ISC Poorly determined
ISC XII 15 19 12 30.2±.71 **42.96N**±.058 **13.0E**±.13 **5** **9 0-1**
ROM XII 15 19 12 29.6 43.0N 12.9E 5 2.7D **¶97xii3328**
ISC XII 15 19 24 20±1.3 **43.05N**±.086 **12.9E**±.16 **10** **4 0-0**
ROM XII 15 19 24 20.0 43.0N 12.9E 10 2.2D **¶97xii3332**
ISC Poorly determined
ISC XII 16 21 35 41.1±.62 **43.67N**±.044 **12.82E**±.092 **5** **13 0-4**
ROM XII 16 21 35 43.0 43.3N 12.4E 5 2.8D **¶97xii3511**
ISC XII 17 02 47 43±1.4 **43.00N**±.086 **13.0E**±.20 **5** **4 0-0**
ROM XII 17 02 47 42.5 43.0N 13.1E 5 2.3D **¶97xii3540**
ISC Poorly determined
ISC XII 17 08 26 27.8±.76 **42.98N**±.043 **12.94E**±.092 **4**±8.0 **18 0-7**
ROM XII 17 08 26 27.6 43.0N 12.9E 5 3.3D **¶97xii3578**
ISC XII 17 09 25 43±1.3 **43.01N**±.092 **12.9E**±.17 **10** **4 0-0**
ROM XII 17 09 25 42.3 43.0N 12.9E 10 2.4D **¶97xii3585**
ISC Poorly determined
ISC XII 17 22 39 32±1.2 **43.13N**±.087 **12.8E**±.18 **14** **4 0-0**
ROM XII 17 22 39 31.9 43.1N 12.8E 14 2.3D **¶97xii3672**
ISC Poorly determined
ISC XII 18 00 56 20.9±.77 **43.04N**±.046 **12.89E**±.099 **8**±7.9 **12 0-5**
ROM XII 18 00 56 20.4 43.0N 12.9E 7 2.8D **¶97xii3687**
ISC XII 18 20 39 23.2±.99 **42.88N**±.094 **13.1E**±.22 **6**±15 **6 0-1**
ROM XII 18 20 39 22.6 42.9N 13.1E 5 2.5D **¶97xii3822**
ISC XII 19 09 50 04±1.9 **42.06N**±.070 **14.1E**±.20 **14** **14 0-7**
ROM XII 19 09 50 04.6 42.1N 14.0E 14 3.2D **¶97xii3926**
ISC XII 19 10 11 46.7±.75 **42.97N**±.029 **12.81E**±.050 **4**±6.5 3.5b **53 0-67**
ROM XII 19 10 11 46.5 43.0N 12.9E 5 2.9D **¶97xii3933**
NEIC XII 19 10 11 46.9 42.97N 12.81E 6 3.5b
LDG XII 19 10 11 47.2 42.7N 13.0E 3.7L
STR XII 19 10 11 57.4 43.3N 12.01E 10 3.8L
NEIC ML 3.6 (TRI).
ISC XII 19 10 13 42±1.5 **43.00N**±.099 **12.9E**±.17 **10** **4 0-0**
ROM XII 19 10 13 42.0 43.0N 12.9E 10 2.3D **¶97xii3934**
ISC Poorly determined
ISC XII 19 10 22 40±2.9 **43.0N**±.14 **12.8E**±.18 **22**±34 **5 0-1**
ROM XII 19 10 22 40.6 43.0N 12.9E 10 2.5D **¶97xii3936**
ISC Poorly determined
ISC XII 19 10 36 08.3±.72 **43.00N**±.047 **12.88E**±.073 **11**±6.8 **26 0-8**
ROM XII 19 10 36 08.1 43.0N 12.9E 7 3.0D **¶97xii3937**
LDG XII 19 10 36 10.1 42.9N 12.9E 3.3L
NEIC XII 19 10 36 19.0 43.37N 11.83E 10
NEIC Less reliable solution.
ISC XII 19 10 40 33.9±.87 **43.00N**±.074 **12.9E**±.13 **8**±11 **8 0-1**
ROM XII 19 10 40 33.3 43.0N 12.9E 6 2.9D **¶97xii3938**
ISC XII 19 12 17 12.4±.81 **42.89N**±.081 **13.0E**±.17 **5** **7 0-1**
ROM XII 19 12 17 12.0 42.9N 13.0E 5 2.8D **¶97xii3957**
ROM XII 19 12 30 59.3 **42.1N** **14.1E** **5** **2.8D** **¶97xii3960**
ISC XII 20 15 45 28±5.5 **43.0N**±.20 **12.7E**±.47 **5** **4 0-1**
ROM XII 20 15 45 27.8 43.0N 12.7E 5 2.2D **¶97xii4135**
ISC Poorly determined
ISC XII 20 18 20 00±1.1 **43.10N**±.074 **12.8E**±.11 **5** **5 0-1**
ROM XII 20 18 19 58.9 43.1N 12.8E 5 2.4D **¶97xii4146**
ISC XII 20 18 44 41.8±.82 **43.02N**±.045 **12.82E**±.093 **6**±7.9 **15 0-7**
ROM XII 20 18 44 41.5 43.0N 12.8E 5 3.0D **¶97xii4152**
ISC XII 21 02 19 52.5±.83 **42.83N**±.038 **12.94E**±.071 **4**±8.5 **29 0-7**
LDG XII 21 02 19 51.6 42.6N 13.3E 3.1L **¶97xii4196**
ROM XII 21 02 19 52.1 42.9N 13.0E 5 3.1D
NEIC XII 21 02 20 00.6 43.15N 12.27E 10
NEIC ML3.2(VIE), Less reliable solution.
ISC XII 21 02 55 25±1.2 **42.9N**±.13 **13.1E**±.24 **5** **4 0-1**
ROM XII 21 02 55 24.3 42.9N 13.1E 5 2.2D **¶97xii4201**
ISC Poorly determined
ISC XII 21 03 13 07.4±.94 **43.07N**±.067 **13.0E**±.13 **7**±13 **7 0-1**
ROM XII 21 03 13 07.1 43.1N 12.9E 5 2.7D **¶97xii4204**
ROM XII 21 03 37 00.7 **42.9N** **13.0E** **5** **2.2D** **¶97xii4205**
ISC XII 21 05 27 52±1.6 **42.8N**±.13 **13.0E**±.23 **11**±14 **5 0-1**
ROM XII 21 05 27 51.5 42.8N 12.9E 9 2.3D **¶97xii4219**
ISC Poorly determined
ISC XII 21 10 27 14±1.2 **43.05N**±.088 **12.8E**±.13 **9**±14 **6 0-1**
ROM XII 21 10 27 13.3 43.0N 12.8E 10 2.6D **¶97xii4240**
ROM XII 21 21 54 38.0 **43.4N** **12.5E** **10** **2.3D** **¶97xii4312**
ISC XII 21 23 43 02±1.8 **43.0N**±.11 **13.2E**±.22 **4**±19 **5 0-1**
ROM XII 21 23 43 01.4 43.0N 13.2E 5 2.7D **¶97xii4322**
ISC Poorly determined
ISC XII 22 03 08 43±3.6 **42.00N**±.094 **14.0E**±.40 **19** **5 0-1**
ROM XII 22 03 08 43.2 42.0N 14.1E 19 2.5D **¶97xii4343**
ISC XII 22 08 48 22±1.5 **43.0N**±.10 **12.9E**±.18 **8** **4 0-1**
ROM XII 22 08 48 20.9 43.0N 12.9E 8 2.3D **¶97xii4388**
ISC Poorly determined
ISC XII 22 10 51 07.5±.84 **42.97N**±.068 **12.8E**±.12 **5** **8 0-1**
ROM XII 22 10 51 07.2 43.0N 12.8E 5 2.8D **¶97xii4407**
ROM XII 22 16 55 27.6 **43.0N** **12.9E** **5** **2.4D** **¶97xii4454**
ISC XII 23 03 38 41±1.5 **43.14N**±.095 **12.8E**±.15 **15**±28 **5 0-1**
ROM XII 23 03 38 41.1 43.1N 12.8E 15 2.4D **¶97xii4535**
ISC Poorly determined
ISC XII 23 06 45 45±1.2 **43.01N**±.089 **12.9E**±.14 **10** **5 0-1**
ROM XII 23 06 45 44.5 43.0N 12.9E 10 2.3D **¶97xii4555**
ISC XII 23 08 15 23±1.1 **43.00N**±.068 **12.81E**±.097 **4**±11 **9 0-4**
ROM XII 23 08 15 22.9 43.0N 12.9E 7 2.9D **¶97xii4567**
ISC XII 23 11 41 48±3.1 **42.9N**±.18 **12.8E**±.21 **19**±36 **5 0-1**
ROM XII 23 11 41 47.7 42.9N 12.8E 15 2.4D **¶97xii4591**
ISC Poorly determined
ISC XII 23 11 56 16±1.2 **43.16N**±.078 **12.8E**±.17 **11**±15 **5 0-1**
ROM XII 23 11 56 15.7 43.2N 12.8E 6 2.3D **¶97xii4594**
ISC Poorly determined
ISC XII 23 18 01 59±1.2 **42.93N**±.081 **12.9E**±.18 **14**±13 **5 0-1**
ROM XII 23 18 01 59.0 42.9N 12.9E 5 2.1D **¶97xii4636**
ISC Poorly determined
ROM XII 23 23 18 12.3 **43.1N** **12.9E** **10** **2.0D** **¶97xii4667**
ISC XII 24 01 41 11.0±.94 **42.98N**±.071 **12.9E**±.13 **2**±14 **8 0-1**
ROM XII 24 01 41 10.7 43.0N 12.9E 7 2.9D **¶97xii4684**
ISC XII 24 15 01 05.2±.92 **43.04N**±.063 **12.8E**±.12 **9** **6 0-1**
ROM XII 24 15 01 04.8 43.0N 12.8E 9 2.4D **¶97xii4777**
ISC XII 24 17 31 42±2.7 **42.82N**±.093 **13.0E**±.36 **10** **4 0-1**
ROM XII 24 17 31 41.7 42.8N 13.0E 10 2.3D **¶97xii4791**
ISC Poorly determined
ISC XII 24 20 04 03±4.6 **42.2N**±.21 **14.2E**±.28 **2**±30 **5 1-2**
ROM XII 24 20 04 03.9 42.1N 14.0E 5 1.7D **¶97xii4816**
ISC Poorly determined
ISC XII 25 02 15 43±1.2 **42.93N**±.079 **12.9E**±.15 **5** **4 0-1**
ROM XII 25 02 15 42.3 42.9N 12.9E 5 2.2D **¶97xii4854**
ISC Poorly determined
ISC XII 25 03 18 45±1.0 **43.07N**±.064 **12.8E**±.13 **8** **5 0-1**
ROM XII 25 03 18 44.9 43.1N 12.8E 8 2.4D **¶97xii4859**
ISC XII 25 05 48 02±1.0 **42.79N**±.065 **13.0E**±.13 **8** **5 0-1**
ROM XII 25 05 48 01.2 42.8N 13.0E 8 2.2D **¶97xii4873**
ISC XII 25 11 37 22±1.5 **42.76N**±.067 **12.6E**±.22 **3**±26 **6 0-17**
ROM XII 25 11 37 22.3 42.8N 12.6E 10 2.4D **¶97xii4918**
ISC XII 25 12 49 51.9±.93 **42.94N**±.056 **12.8E**±.13 **5** **6 0-1**
ROM XII 25 12 49 51.4 42.9N 12.8E 5 2.2D **¶97xii4931**
ISC XII 25 13 13 39.8±.79 **42.95N**±.055 **12.9E**±.12 **9**±9.7 **9 0-1**
ROM XII 25 13 13 39.5 43.0N 12.9E 5 2.7D **¶97xii4934**
ISC XII 25 13 14 42±1.0 **42.95N**±.064 **12.9E**±.14 **9** **5 0-1**
ROM XII 25 13 14 41.6 43.0N 12.9E 9 2.3D **¶97xii4935**
ISC XII 25 15 27 15±3.2 **42.82N**±.098 **13.1E**±.38 **10** **4 0-1**
ROM XII 25 15 27 15.6 42.8N 13.0E 10 2.3D **¶97xii4952**
ISC Poorly determined
ISC XII 25 17 17 52.9±.70 **42.92N**±.036 **12.85E**±.067 **4**±7.3 **25 0-7**
ROM XII 25 17 17 52.7 42.9N 12.9E 5 3.2D **¶97xii4962**
NEIC XII 25 17 17 53.1 42.89N 12.85E 10
NEIC ML3.1(VIE), Less reliable solution.
ISC XII 25 19 49 56±1.2 **43.12N**±.081 **12.9E**±.16 **9** **4 0-0**
ROM XII 25 19 49 55.9 43.1N 12.8E 9 2.1D **¶97xii4982**
ISC Poorly determined
ISC XII 25 19 51 33.1±.68 **42.85N**±.044 **13.0E**±.11 **5**±10 **12 0-1**
ROM XII 25 19 51 33.2 42.8N 13.0E 10 2.8D **¶97xii4983**
ISC XII 25 22 21 03±1.7 **42.83N**±.098 **13.1E**±.24 **17**±23 **5 0-1**
ROM XII 25 22 21 02.1 42.8N 13.1E 20 2.3D **¶97xii4994**
ISC Poorly determined
ISC XII 26 05 10 39±3.2 **43.04N**±.098 **12.8E**±.26 **27**±34 **5 0-1**
ROM XII 26 05 10 38.2 43.1N 12.8E 26 2.5D **¶97xii5054**
ISC Poorly determined
ISC XII 26 11 37 07±1.5 **42.12N**±.094 **14.2E**±.17 **5** **6 1-2**
ROM XII 26 11 37 08.3 42.1N 14.0E 5 2.9D **¶97xii5114**
ISC XII 26 15 04 31±2.2 **43.05N**±.082 **12.7E**±.28 **10** **4 0-1**
ROM XII 26 15 04 31.1 43.0N 12.8E 10 2.2D **¶97xii5155**
ISC Poorly determined
ROM XII 26 15 08 05.4 **42.7N** **12.9E** **5** **2.2D** **¶97xii5157**
ISC XII 26 15 24 27±2.5 **42.92N**±.085 **13.0E**±.31 **10** **4 0-1**
ROM XII 26 15 24 27.1 42.9N 13.0E 10 2.3D **¶97xii5164**
ISC Poorly determined
ISC XII 26 19 16 55.8±.88 **42.87N**±.059 **12.9E**±.12 **3**±23 **7 0-1**
ROM XII 26 19 16 55.1 42.9N 12.9E 5 2.7D **¶97xii5190**
ISC XII 27 00 27 56±1.2 **43.0N**±.12 **12.9E**±.16 **10**±20 **5 0-1**
ROM XII 27 00 27 56.0 43.0N 12.9E 5 2.4D **¶97xii5212**
ISC Poorly determined
ISC XII 27 13 06 08±7.6 **42.8N**±.16 **13.5E**±.66 **11** **4 0-1**
ROM XII 27 13 06 10.9 42.8N 13.2E 11 2.2D **¶97xii5291**
ISC Poorly determined
ISC XII 28 14 23 26±2.1 **42.9N**±.16 **13.0E**±.20 **5** **4 0-1**
ROM XII 28 14 23 25.4 42.9N 13.0E 5 2.2D **¶97xii5461**
ISC Poorly determined
ISC XII 28 19 20 12±1.2 **42.93N**±.085 **12.9E**±.18 **15**±12 **5 0-1**
ROM XII 28 19 20 11.5 42.9N 12.9E 9 2.3D **¶97xii5484**
ISC Poorly determined
ISC XII 28 22 25 12±1.2 **42.90N**±.079 **12.9E**±.15 **5** **4 0-1**
ROM XII 28 22 25 11.3 42.9N 12.8E 5 2.3D **¶97xii5504**
ISC Poorly determined
ISC XII 29 02 20 15±1.5 **42.88N**±.099 **13.1E**±.23 **15** **4 0-1**
ROM XII 29 02 20 14.5 42.9N 13.0E 15 2.4D **¶97xii5534**
ISC Poorly determined
ISC XII 29 06 24 21±1.3 **42.96N**±.081 **13.0E**±.16 **5** **4 0-1**
ROM XII 29 06 24 20.5 43.0N 12.9E 5 2.2D **¶97xii5554**
ISC Poorly determined
ISC XII 29 23 09 16±1.2 **43.00N**±.079 **12.9E**±.15 **5** **4 0-1**
ROM XII 29 23 09 15.2 43.0N 12.9E 5 2.3D **¶97xii5652**
ISC Poorly determined
ISC XII 30 02 40 29±1.2 **43.04N**±.083 **12.8E**±.14 **7** **4 0-1**
ROM XII 30 02 40 29.0 43.0N 12.8E 7 2.0D **¶97xii5673**
ISC Poorly determined
ISC XII 30 03 38 42±8.8 **42.7N**±.15 **13.4E**±.76 **8** **4 0-1**
ROM XII 30 03 38 43.8 42.8N 13.2E 8 2.3D **¶97xii5676**
ISC Poorly determined
ISC XII 30 11 29 21.6±.71 **43.87N**±.088 **10.25E**±.080 **25**±10 **13 0-3**
ROM XII 30 11 29 22.9 43.9N 10.5E 14 2.4D **¶97xii5726**
ISC XII 30 13 15 50±1.8 **42.65N**±.069 **12.6E**±.24 **12**±12 **6 0-1**
ROM XII 30 13 15 49.3 42.6N 12.6E 5 2.5D **¶97xii5737**
ISC XII 30 16 11 05±1.7 **43.9N**±.17 **11.8E**±.13 **9** **4 0-1**
ROM XII 30 16 11 04.0 44.0N 11.9E 9 2.5D **¶97xii5755**
ISC Poorly determined
ISC XII 31 09 25 03.0±.54 **42.90N**±.037 **13.00E**±.091 **5** **14 0-4**
ROM XII 31 09 25 02.3 42.9N 13.0E 5 3.0D **¶97xii5869**
ROM XII 31 09 31 44.9 **42.8N** **13.1E** **15** **2.4D** **¶97xii5871**
ISC XII 31 16 02 14.6±.57 **42.88N**±.018 **13.00E**±.020 **3**±4.2 **4.6b,4.0s 241 0-128**
ROM XII 31 16 02 14.3 42.8N 13.0E 5 4.0D **¶97xii5921**
BJI XII 31 16 02 14.5 42.57N 12.99E 15 4.7b

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
PDG	XII	31 16 02 14.8	42.6N	12.9E	10	4.4L		
NEIC	XII	31 16 02 15.4	42.87N	12.99E	10	4.5b		
EIDC	XII	31 16 02 16.5±.62	42.9N	13.3E	0	4.1b,3.9s		
THE	XII	31 16 02 22.0	42.8N	13.5E	0	4.3L		
LDG	XII	31 16 02 22.1	43.0N	12.6E		4.1L		
STR	XII	31 16 02 24.5	43.19N	12.39E	10	4.5L		
NEIC	M_L4.5(VIE).							
NEIC	ML 4.4 (FUR), 4.1 (LDG).							
EIDC	Error ellipse is semi−major=21.5km semi−minor=13.2km azimuth=88							
ISC	**XII**	**31 16 12 11.7**±.62	**42.83N**±.035	**12.94E**±.057	**10**±6.0		**35**	**0-8**
ROM	XII	31 16 12 11.3	42.9N	12.9E	5	3.0D		¶97xii5923
NEIC	XII	31 16 12 11.5	42.83N	12.91E	10			
LDG	XII	31 16 12 13.0	42.9N	13.1E		3.2L		
NEIC	M_L3.4(VIE) Less reliable solution.							
ISC	**XII**	**31 16 14 29**±7.2	**42.8N**±.25	**13.3E**±.54	**10**		**4**	**0-1**
ROM	XII	31 16 14 29.0	42.8N	13.3E	10	2.6D		¶97xii5924
ISC	Poorly determined							
ISC	**XII**	**31 16 24 17**±1.7	**42.89N**±.093	**13.1E**±.27	**5**		**4**	**0-1**
ROM	XII	31 16 24 16.2	42.9N	13.0E	5	2.3D		¶97xii5925
ISC	Poorly determined							
ISC	**XII**	**31 16 28 05.9**±.57	**42.90N**±.039	**12.99E**±.093	**5**		**13**	**0-3**
ROM	XII	31 16 28 05.4	42.9N	13.0E	5	3.1D		¶97xii5926
ISC	**XII**	**31 16 37 12.3**±.88	**42.86N**±.058	**13.0E**±.12	**5**		**6**	**0-1**
ROM	XII	31 16 37 11.5	42.9N	13.0E	5	2.5D		¶97xii5927
ISC	**XII**	**31 17 03 57.2**±.89	**42.86N**±.058	**13.0E**±.12	**7**		**6**	**0-1**
ROM	XII	31 17 03 56.9	42.9N	13.0E	7	2.6D		¶97xii5931
ISC	**XII**	**31 18 39 12**±1.9	**42.8N**±.10	**13.1E**±.29	**15**		**4**	**0-1**
ROM	XII	31 18 39 11.8	42.8N	13.1E	15	2.1D		¶97xii5946
ISC	Poorly determined							
ISC	**XII**	**31 22 09 24**±1.5	**42.81N**±.091	**13.1E**±.17	**5**		**4**	**0-1**
ROM	XII	31 22 09 23.6	42.8N	13.0E	5	2.3D		¶97xii5982
ISC	Poorly determined							
ISC	**XII**	**31 22 20 42.4**±.89	**42.88N**±.058	**13.0E**±.12	**5**		**6**	**0-1**
ROM	XII	31 22 20 41.8	42.9N	13.0E	5	2.4D		¶97xii5985
ISC	**XII**	**31 22 28 56**±1.2	**42.82N**±.095	**12.9E**±.17	**14**±14		**5**	**0-1**
ROM	XII	31 22 28 55.9	42.8N	12.9E	5	2.4D		¶97xii5988
ISC	Poorly determined							

(382) Adriatic Sea.

ISC	**VII**	**04 15 17 03.2**±.70	**42.96N**±.083	**17.65E**±.082	**10**		**17**	**1-6**
PDG	VII	04 15 17 02.6	43.0N	17.6E	10	3.0L		¶97vii0580
ISC	**VII**	**05 06 36 02.9**±.69	**42.99N**±.081	**17.63E**±.081	**7**		**16**	**1-5**
PDG	VII	05 06 36 03.2	43.0N	17.6E	7	2.7L		¶97vii0692
LJU	**VII**	**18 08 02 47.8**	**45.0N**	**14.9E**	**0**			¶97vii2710
ISC	**VII**	**20 07 36 53.2**±.85	**42.79N**±.077	**17.96E**±.080	**1**		**13**	**0-4**
PDG	VII	20 07 36 51.7	42.9N	17.8E	1	2.6L		¶97vii3039
ISC	**VII**	**21 20 59 22.1**±.25	**42.84N**±.025	**17.91E**±.031	**10**		**113**	**0-20**
PDG	VII	21 20 59 20.2	42.9N	17.8E	10	3.5L,3.6D		¶97vii3289
NEIC	VII	21 20 59 23.6	42.90N	17.74E	10			
LDG	VII	21 20 59 24.6	43.0N	18.0E		3.8L		
EIDC	VII	21 20 59 31.2	43.1N	17.8E	82			
ZAG	Felt in Dubrovnik							
ISC	**VII**	**22 09 27 33**±1.4	**42.81N**±.077	**18.0E**±.11	**6**±13		**13**	**0-4**
PDG	VII	22 09 27 32.1	42.9N	17.8E	11	2.8L		¶97vii3349
ZAG	Felt in Dubrovnik (after HVAR)							
ISC	**VIII**	**11 19 03 17**±1.2	**42.8N**±.10	**17.68E**±.095	**10**		**10**	**1-2**
PDG	VIII	11 19 03 22.1	42.8N	17.9E	10	2.6L		¶97viii1612
ISC	**VIII**	**24 13 56 46.6**±.79	**42.84N**±.065	**17.95E**±.072	**13**		**18**	**0-4**
PDG	VIII	24 13 56 45.0	42.9N	17.8E	13	3.1L		¶97viii3544
ROM	VIII	24 13 56 50.1	42.9N	17.8E	10	3.0D		
ISC	**VIII**	**28 16 02 51.9**±.43	**42.75N**±.045	**17.88E**±.047	**10**		**29**	**1-7**
PDG	VIII	28 16 02 49.6	42.9N	17.7E	10	3.3L,3.3D		¶97viii4155
ROM	VIII	28 16 02 52.3	42.9N	17.7E	5	2.9D		
ISC	**IX**	**01 06 44 32**±1.1	**42.79N**±.080	**18.00E**±.093	**15**		**11**	**0-3**
PDG	IX	01 06 44 30.2	42.8N	17.8E	15	2.5L		¶97ix0061
ISC	**IX**	**19 22 39 33**±1.2	**42.94N**±.091	**17.94E**±.094	**13**		**10**	**0-2**
PDG	IX	19 22 39 32.7	43.0N	17.8E	13	2.3L		¶97ix2860
ISC	**XI**	**15 13 57 23**±1.4	**42.78N**±.085	**17.9E**±.13	**5**		**9**	**0-3**
PDG	XI	15 13 57 21.2	42.8N	17.7E	5	2.6L		¶97xi2486
ROM	**XII**	**06 05 17 45.3**	**42.0N**	**15.5E**	**5**	**2.3D**		¶97xii1259
ISC	**XII**	**25 08 40 03.3**±.89	**42.77N**±.086	**17.72E**±.087	**6**		**17**	**1-6**
ROM	XII	25 08 40 02.0	43.8N	15.4E	10	2.6D		¶97xii4899
PDG	XII	25 08 40 03.0	42.9N	17.7E	6	2.3L		

(383) Northwestern Balkan region.

LJU	**VII**	**01 02 20 11.6**	**46.6N**	**14.6E**	**8**			¶97vii0013
ISC	**VII**	**01 10 54 10.3**±.79	**42.38N**±.056	**18.77E**±.071	**10**		**10**	**0-2**
PDG	VII	01 10 54 10.5	42.4N	18.7E	10	2.3L		¶97vii0071
LJU	**VII**	**01 11 19 44.9**	**46.0N**	**14.2E**	**0**			¶97vii0074
ISC	**VII**	**01 16 36 07.5**±.73	**41.79N**±.045	**22.85E**±.071	**4**±10		**15**	**0-2**
THE	VII	01 16 36 09.6	41.8N	22.8E	10	2.8L		¶97vii0117
ISC	**VII**	**02 04 10 42**±1.1	**42.55N**±.070	**18.4E**±.11	**16**		**10**	**0-2**
PDG	VII	02 04 10 41.1	42.6N	18.3E	16	2.1L		¶97vii0177
ISC	**VII**	**02 11 04 36**±3.2	**46.25N**±.081	**16.0E**±.31	**0**		**6**	**0-1**
LJU	VII	02 11 04 35.7	46.2N	16.0E	0			¶97vii0229
ISC	**VII**	**02 17 39 21**±1.3	**46.63N**±.060	**15.3E**±.16	**0**		**6**	**0-3**
LJU	VII	02 17 39 21.1	46.6N	15.3E	0			¶97vii0274
ISC	**VII**	**03 06 40 39**±1.3	**43.31N**±.088	**19.4E**±.11	**2**		**8**	**0-1**
PDG	VII	03 06 40 39.4	43.4N	19.4E	2	1.7L		¶97vii0369
ISC	**VII**	**03 22 40 57.3**±.43	**44.08N**±.045	**21.21E**±.046	**10**		**34**	**1-6**
PDG	VII	03 22 40 56.5	44.1N	21.2E	9	3.2L		¶97vii0462
NEIC	VII	03 22 40 57.6	43.82N	20.97E	10			
NEIC	Less reliable solution.							
ISC	**VII**	**03 23 23 40**±1.1	**45.88N**±.094	**15.9E**±.15	**14**		**5**	**0-1**
LJU	VII	03 23 23 40.2	45.9N	15.9E	14			¶97vii0465
ISC	**VII**	**04 05 53 09**±1.3	**42.0N**±.11	**21.6E**±.13	**47**±25		**9**	**0-3**
								¶97vii0511
ISC	**VII**	**04 11 14 40**±3.6	**46.2N**±.25	**14.7E**±.17	**0**		**5**	**0-1**
LJU	VII	04 11 14 41.0	46.2N	14.8E	0			¶97vii0549
LJU	**VII**	**04 15 15 36.5**	**46.7N**	**15.1E**	**0**			¶97vii0579
ISC	**VII**	**04 17 19 06.3**±.99	**41.26N**±.076	**21.94E**±.082	**5**±17		**8**	**0-1**
THE	VII	04 17 19 07.5	41.3N	22.0E	9	2.0L		¶97vii0597
ISC	**VII**	**05 00 04 54**±1.4	**42.30N**±.080	**19.38E**±.099	**21**±26		**9**	**0-1**
PDG	VII	05 00 04 54.2	42.3N	19.4E	23	1.8L		¶97vii0643
ISC	**VII**	**05 01 08 26.4**±.69	**42.99N**±.075	**18.19E**±.089	**18**		**14**	**0-3**
PDG	VII	05 01 08 25.7	43.0N	18.2E	18	2.3L		¶97vii0652
ISC	**VII**	**05 01 09 31**±1.2	**43.02N**±.086	**18.26E**±.091	**14**		**9**	**0-1**
PDG	VII	05 01 09 31.1	43.1N	18.1E	14	2.3L		¶97vii0654
ISC	**VII**	**08 08 51 36**±4.5	**42.75N**±.097	**18.3E**±.35	**1**		**8**	**0-1**
PDG	VII	08 08 51 31.9	42.9N	17.9E	1	2.1L		¶97vii1160
ISC	**VII**	**08 20 15 03.0**±.25	**43.06N**±.026	**19.47E**±.032	**10**		**72**	**0-10**
THE	VII	08 20 14 54.2	43.5N	18.7E	10	3.4L		¶97vii1231
ROM	VII	08 20 15 02.4	43.1N	19.9E	10	3.2D		
NEIC	VII	08 20 15 03.4	43.10N	19.40E	10			
ISC	**VII**	**09 13 38 03**±1.4	**41.5N**±.14	**22.3E**±.14	**33**		**6**	**0-2**
								¶97vii1345
LJU	**VII**	**09 15 32 28.2**	**46.0N**	**15.0E**	**0**			¶97vii1358
ISC	**VII**	**10 04 01 43**±2.1	**42.35N**±.078	**18.97E**±.085	**14**±30		**8**	**0-1**
PDG	VII	10 04 01 44.0	42.3N	19.0E	8	1.4L		¶97vii1442
LJU	**VII**	**10 04 14 46.9**	**46.3N**	**15.7E**	**7**			¶97vii1447
ISC	**VII**	**10 11 16 04**±2.3	**46.14N**±.083	**14.8E**±.11	**10**±57		**6**	**0-1**
NEIC	VII	10 11 16 04.2	46.13N	14.79E	10			¶97vii1503
LJU	VII	10 11 16 04.7	46.1N	14.8E	13			
NEIC	Single network solution.							
ISC	**VII**	**10 13 47 57**±1.0	**41.23N**±.084	**22.01E**±.088	**4**±20		**7**	**0-2**
THE	VII	10 13 47 56.6	41.3N	22.0E	0			¶97vii1515
ISC	**VII**	**11 09 25 18**±3.5	**46.2N**±.12	**16.0E**±.29	**0**		**5**	**0-1**
LJU	VII	11 09 25 17.3	46.23N	16.1E	0			¶97vii1654
ISC	**VII**	**11 13 18 37**±1.9	**41.2N**±.13	**22.0E**±.11	**0**		**7**	**0-1**
THE	VII	11 13 18 37.9	41.2N	21.9E	0	1.8L		¶97vii1687
ISC	**VII**	**11 14 16 37**±2.4	**41.1N**±.12	**22.7E**±.12	**20**±40		**6**	**0-1**
THE	VII	11 14 16 38.6	41.0N	22.8E	10	1.9L		¶97vii1695
ISC	**VII**	**11 16 32 04.4**±.62	**42.07N**±.083	**21.28E**±.085	**18**		**19**	**0-3**
SKO	VII	11 16 32 01.3	42.10N	21.25E	18			¶97vii1708
THE	VII	11 16 32 04.1	42.2N	21.3E	10	2.9L		
PDG	VII	11 16 32 05.2	42.2N	21.1E	6	3.0L		
ISC	**VII**	**12 17 00 12**±1.2	**45.66N**±.090	**15.3E**±.10	**0**		**5**	**0-1**
LJU	VII	12 17 00 11.4	45.7N	15.4E	0			¶97vii1843
LJU	**VII**	**14 09 23 21.7**	**46.1N**	**14.46E**	**7**			¶97vii2092
ISC	**VII**	**17 11 48 11**±2.4	**45.7N**±.18	**15.7E**±.22	**17**		**5**	**0-1**
LJU	VII	17 11 48 11.8	45.7N	15.64E	17			¶97vii2588
ISC	**VII**	**18 05 28 32**±1.4	**42.43N**±.076	**18.5E**±.13	**11**		**7**	**0-1**
PDG	VII	18 05 28 32.9	42.4N	18.5E	11	1.6L		¶97vii2698
ISC	**VII**	**19 05 33 57**±2.1	**46.1N**±.16	**14.1E**±.10	**10**		**7**	**0-1**
LJU	VII	19 05 33 56.5	46.2N	14.1E	15			¶97vii2833
NEIC	VII	19 05 33 57.0	46.11N	14.11E	10			
NEIC	Single network solution.							
ISC	**VII**	**20 08 27 11.3**±.65	**42.64N**±.044	**18.99E**±.060	**2**±8.7		**15**	**0-4**
PDG	VII	20 08 27 11.7	42.6N	19.0E	14	2.6L,2.8D		¶97vii3047
LJU	**VII**	**20 14 21 22.8**	**46.5N**	**14.5E**	**1**			¶97vii3100
LJU	**VII**	**20 20 29 59.3**	**45.31N**	**14.6E**	**9**			¶97vii3146
ISC	**VII**	**21 07 31 15**±1.1	**41.9N**±.10	**21.7E**±.12	**33**		**9**	**0-3**
								¶97vii3214
ISC	**VII**	**21 08 17 47.4**±.98	**41.83N**±.074	**21.92E**±.081	**0**		**7**	**0-1**
SOF	VII	21 08 17 47.5	41.80N	21.80E	0	2.9D		¶97vii3217
THE	VII	21 08 17 54.0	40.4N	22.5E	9	2.4L		
LJU	**VII**	**21 11 15 29.7**	**46.3N**	**14.14E**	**7**			¶97vii3236
ISC	**VII**	**21 17 04 54**±1.7	**46.24N**±.057	**16.0E**±.17	**10**		**10**	**0-3**
LJU	VII	21 17 04 53.0	46.2N	16.1E	0			¶97vii3264
NEIC	VII	21 17 04 54.4	46.23N	16.03E	10			
NEIC	M_L2.2(VIE), M_L1.6(LJU), Poor solution.							
LJU	**VII**	**21 20 22 30.4**	**46.15N**	**14.2E**	**16**			¶97vii3285
LJU	**VII**	**22 12 18 33.4**	**45.6N**	**14.0E**	**0**			¶97vii3377
LJU	**VII**	**22 18 34 46.7**	**45.0N**	**14.5E**	**0**			¶97vii3412
ISC	**VII**	**24 00 57 59**±1.1	**45.76N**±.084	**14.8E**±.10	**10**		**5**	**0-1**
NEIC	VII	24 00 57 58.6	45.75N	14.81E	10			¶97vii3595
LJU	VII	24 00 57 58.7	45.8N	14.8E	0			
NEIC	M_L0.9(LJU), Single network solution.							
LJU	**VII**	**24 11 46 45.5**	**46.3N**	**15.6E**	**7**			¶97vii3666
ISC	**VII**	**25 06 34 40.4**±.98	**41.85N**±.081	**21.92E**±.084	**0**		**9**	**0-2**
SOF	VII	25 06 34 41.3	41.87N	21.93E	0	3.0D		¶97vii3781
ISC	**VII**	**25 09 53 55**±1.3	**43.17N**±.086	**19.1E**±.11	**14**		**8**	**0-1**
PDG	VII	25 09 53 55.3	43.2N	19.1E	14	1.9L		¶97vii3813
LJU	**VII**	**25 17 37 57.5**	**46.3N**	**15.5E**	**7**			¶97vii3852
ISC	**VII**	**25 20 06 42**±2.1	**41.1N**±.31	**22.2E**±.22	**26**±27		**5**	**0-1**
THE	VII	25 20 06 42.9	41.1N	22.2E	29	2.0L		¶97vii3872
ISC	Poorly determined							
ISC	**VII**	**25 20 50 54**±1.2	**41.8N**±.10	**21.9E**±.11	**1**		**7**	**0-2**
THE	VII	25 20 50 56.5	41.7N	21.9E	1	2.4L		¶97vii3877
ISC	**VII**	**26 03 22 54**±1.6	**43.13N**±.086	**19.9E**±.10	**5**		**12**	**0-3**
PDG	VII	26 03 22 54.0	43.2N	19.9E	5	2.6L		¶97vii3906
LJU	**VII**	**26 10 00 28.2**	**46.0N**	**14.3E**	**16**			¶97vii3948
ISC	**VII**	**26 15 39 18.6**±.97	**42.21N**±.067	**19.09E**±.077	**9**		**8**	**0-1**
PDG	VII	26 15 39 19.2	42.2N	19.1E	9	1.4L		¶97vii3981
ISC	**VII**	**26 21 15 35.4**±.70	**46.49N**±.045	**14.52E**±.074	**10**		**11**	**0-5**
LJU	VII	26 21 15 35.9	46.5N	14.6E	4			¶97vii4012
NEIC	VII	26 21 15 37.3	46.40N	14.64E	10			
NEIC	M_L2.4(VIE), M_L2.0(LJU).							
ISC	**VII**	**26 22 31 17.1**±.43	**43.16N**±.049	**17.43E**±.052	**10**		**34**	**1-19**
ROM	VII	26 22 31 18.5	43.2N	17.4E	10	3.1D		¶97vii4017
PDG	VII	26 22 31 18.9	43.1N	17.6E	0	3.3L		
EIDC	VII	26 22 31 21.4	43.9N	18.1E	0	3.6L		
ISC	**VII**	**26 22 35 57.8**±.36	**43.11N**±.038	**17.40E**±.042	**8**		**50**	**1-19**
NEIC	VII	26 22 35 46.1	42.29N	18.28E	33			¶97vii4018
PDG	VII	26 22 36 00.6	43.1N	17.5E	8	3.3L,3.3D		
EIDC	VII	26 22 36 02.1	43.8N	18.4E	0	3.7L		
NEIC	Less reliable solution.							
ISC	**VII**	**27 01 22 36.4**±.78	**43.62N**±.058	**22.5E**±.10	**40**		**17**	**1-4**
SOF	VII	27 01 22 34.5	43.60N	22.20E	40	3.3D		¶97vii4037
LJU	**VII**	**28 12 52 26.4**	**46.4N**	**14.2E**	**0**			¶97vii4276
LJU	**VII**	**29 09 56 28.6**	**45.5N**	**15.4E**	**0**			¶97vii4418
ISC	**VII**	**30 00 26 32**±1.3	**43.23N**±.084	**18.56E**±.088	**10**		**10**	**0-2**
PDG	VII	30 00 26 29.4	43.4N	18.3E	10	2.3L		¶97vii4509
ISC	**VII**	**30 16 13 39**±1.2	**46.61N**±.069	**15.1E**±.12	**3**		**7**	**0-1**
LJU	VII	30 16 13 39.6	46.6N	15.1E	3			¶97vii4603
ISC	**VII**	**30 16 28 28**±2.7	**46.2N**±.11	**15.9E**±.22	**0**		**7**	**0-1**
LJU	VII	30 16 28 27.3	46.2N	16.0E	0			¶97vii4604
LJU	**VII**	**31 08 12 00.2**	**45.70N**	**14.2E**	**16**			¶97vii4702
ISC	**VII**	**31 08 18 55.2**±.82	**42.00N**±.063	**20.18E**±.098	**19**		**13**	**1-2**
TIR	VII	31 08 18 50.9	42.04N	20.36E	19	2.3L		¶97vii4704
PDG	VII	31 08 18 53.3	42.0N	20.3E	14	2.3L		
ISC	**VII**	**31 10 41 17.3**±.27	**43.03N**±.027	**20.70E**±.034	**10**	3.4b	**84**	**1-72**
ROM	VII	31 10 41 14.7	42.9N	21.2E	10	3.7D		¶97vii4715
NEIC	VII	31 10 41 17.9	43.09N	20.67E	10			
PDG	VII	31 10 41 18.6	43.0N	20.5E	0	3.6D		
EIDC	VII	31 10 41 21.6	43.4N	20.9E	0	3.4b,3.5L		

SOF	**VIII**	**01 21 13 00.2**	**41.29N**	**21.18E**	**20**	**2.7**D		**¶97viii0114**
ISC	**VIII**	**02 02 43 33**±1.7	**41.85N**±.099	**22.8E**±.17	**9**±17		**5**	**0-1**
SOF	VIII	02 02 43 32.3	41.83N	22.84E	6	2.4D		**¶97viii0159**
ISC	Poorly determined							
ISC	**VIII**	**02 19 50 24**±1.2	**42.05N**±.076	**19.51E**±.078	**13**		**10**	**0-1**
PDG	VIII	02 19 50 21.7	41.8N	19.7E	13	1.9L		**¶97viii0253**
NEIC	**VIII**	**03 18 14 02.2**	**45.82N**	**15.03E**	**10**			**0-3**
NEIC	Poor solution.							**¶97viii0392**
ISC	**VIII**	**04 22 16 32.3**±.83	**42.97N**±.091	**20.47E**±.051	**14**		**16**	**0-3**
PDG	VIII	04 22 16 34.3	43.0N	20.4E	14	2.6L		**¶97viii0561**
ISC	**VIII**	**05 21 43 36**±1.9	**43.82N**±.042	**16.23E**±.056	**7**±15		**32**	**1-5**
PDG	VIII	05 21 43 37.0	43.6N	16.1E	14	3.2L		**¶97viii0718**
ROM	VIII	05 21 43 37.5	43.8N	16.4E	10	3.3D		
ISC	**VIII**	**06 18 34 35**±3.4	**42.0N**±.17	**19.9E**±.20	**14**		**9**	**0-1**
PDG	VIII	06 18 34 31.4	41.8N	20.2E	14	2.3L		**¶97viii0828**
ISC	**VIII**	**08 04 03 59**±1.4	**41.1N**±.15	**22.8E**±.11	**11**		**4**	**0-1**
THE	VIII	08 04 03 59.5	41.1N	22.8E	11	1.4L		**¶97viii1052**
ISC	Poorly determined							
ISC	**VIII**	**08 11 04 38**±1.2	**42.36N**±.098	**19.5E**±.11	**26**±12		**9**	**0-1**
PDG	VIII	08 11 04 37.4	42.4N	19.5E	30	2.1L		**¶97viii1100**
ISC	**VIII**	**09 04 30 35.4**±.96	**42.33N**±.068	**19.95E**±.073	**10**		**9**	**0-1**
PDG	VIII	09 04 30 36.0	42.3N	20.0E	10	2.1L		**¶97viii1204**
ISC	**VIII**	**09 08 21 08**±1.4	**42.4N**±.10	**19.5E**±.11	**28**±15		**8**	**0-1**
PDG	VIII	09 08 21 08.5	42.4N	19.5E	27	1.6L		**¶97viii1221**
ISC	**VIII**	**10 10 48 24.9**±.82	**46.59N**±.040	**16.32E**±.074	**8**±5.8		**47**	**1-8**
NEIC	VIII	10 10 48 24.1	46.49N	16.45E	10			**¶97viii1382**
SZGRF	VIII	10 10 48 26.8	46.5N	16.3E	10	3.6L		
NEIC	M_L3.4(VIE)							
NEIC	ML 3.2 (LJU). Felt I=IV MM in the Lendava-Turnisce area, Slovenia. Also felt at Lenti, Hungary.							
ISC	**VIII**	**13 11 56 03**±15	**41.8N**±.67	**22.3E**±.59	**2**		**6**	**1-2**
THE	VIII	13 11 56 08.1	41.7N	22.4E	2	2.1L		**¶97viii1903**
ISC	**VIII**	**17 03 25 57.8**±.77	**42.37N**±.052	**18.89E**±.070	**0**		**9**	**0-1**
PDG	VIII	17 03 25 58.5	42.3N	18.9E	0	1.7L		**¶97viii2479**
ISC	**VIII**	**19 00 21 48**±1.2	**46.1N**±.12	**14.8E**±.15	**10**		**4**	**0-1**
NEIC	VIII	19 00 21 48.4	46.14N	14.85E	10			**¶97viii2734**
ISC	Poorly determined							
NEIC	M_L1.5(LJU), Poor solution.							
ISC	**VIII**	**19 00 47 57.1**±.67	**41.45N**±.049	**22.66E**±.069	**15**		**12**	**0-2**
SOF	VIII	19 00 47 57.0	41.47N	22.62E	0	3.1D		**¶97viii2737**
SKO	VIII	19 00 47 57.7	41.37N	22.60E	15			
THE	VIII	19 00 47 59.0	41.4N	22.7E	11	2.6L		
SKO	Felt I=III−V MSK at Strumica							
ISC	**VIII**	**20 19 23 44**±1.0	**42.90N**±.069	**18.31E**±.079	**7**		**15**	**0-3**
PDG	VIII	20 19 23 43.6	42.9N	18.2E	7	2.6L		**¶97viii3004**
ROM	VIII	20 19 23 49.7	42.8N	17.9E	10	2.9D		
ISC	**VIII**	**23 13 40 28.9**±.57	**42.39N**±.049	**18.74E**±.060	**12**±6.8		**19**	**0-4**
PDG	VIII	23 13 40 29.8	42.4N	18.7E	9	2.9L,3.0D		**¶97viii3410**
ROM	VIII	23 13 40 30.0	42.3N	18.8E	10	2.8D		
ISC	**VIII**	**24 23 29 47**±1.4	**45.8N**±.12	**15.17E**±.097	**10**		**5**	**0-1**
NEIC	VIII	24 23 29 46.2	45.79N	15.21E	10			**¶97viii3605**
NEIC	M_L1.0(LJU), Poor solution.							
ISC	**VIII**	**26 12 10 13**±13	**41.7N**±.58	**22.3E**±.53	**1**		**7**	**0-2**
THE	VIII	26 12 10 15.6	41.7N	22.4E	1			**¶97viii3843**
ISC	**VIII**	**27 03 42 54**±1.0	**46.14N**±.080	**14.02E**±.094	**10**		**6**	**0-1**
NEIC	VIII	27 03 42 53.2	46.15N	13.87E	10			**¶97viii3934**
NEIC	M_L2.0(LJU), Poor solution.							
ISC	**VIII**	**27 20 34 40.7**±.72	**44.25N**±.097	**21.3E**±.16	**33**		**10**	**1-5**
ISC	ML2.9 (after ARSA)							**¶97viii4034**
ISC	**VIII**	**31 00 58 56.8**±.58	**42.04N**±.045	**20.15E**±.059	**5**		**15**	**0-2**
TIR	VIII	31 00 58 56.5	42.07N	20.20E	5	2.5L		**¶97viii4563**
PDG	VIII	31 00 58 57.2	42.0N	20.2E	10	2.6L		
ISC	**IX**	**01 16 37 51**±1.7	**41.83N**±.097	**22.8E**±.18	**12**		**4**	**0-1**
SOF	IX	01 16 37 52.2	41.89N	22.96E	12	2.6D		**¶97ix0139**
ISC	Poorly determined							
LJU	**IX**	**02 11 55 13.7**	**46.0N**	**14.37E**	**7**			**¶97ix0271**
LJU	**IX**	**03 11 35 51.9**	**46.4N**	**15.5E**	**14**			**¶97ix0422**
LJU	**IX**	**03 19 58 58.0**	**46.0N**	**14.2E**	**7**			**¶97ix0472**
ISC	**IX**	**04 10 51 21**±7.6	**46.3N**±.14	**16.0E**±.69	**0**		**4**	**0-1**
LJU	IX	04 10 51 20.1	46.24N	16.0E	0			**¶97ix0579**
ISC	Poorly determined							
LJU	Quarry blast							
ISC	**IX**	**04 13 18 50.6**±.78	**41.3N**±.12	**22.06E**±.072	**24**		**10**	**0-2**
SKO	IX	04 13 18 49.3	41.20N	21.99E	24			**¶97ix0596**
ISC	**IX**	**04 22 21 12.9**±.34	**46.02N**±.030	**14.19E**±.039	**10**		**44**	**0-8**
NEIC	IX	04 22 21 13.1	45.83N	14.20E	10			**¶97ix0643**
LJU	IX	04 22 21 13.3	45.9N	14.2E	14			
ROM	IX	04 22 21 15.1	45.9N	14.1E	5	3.2D		
LDG	IX	04 22 21 15.1	45.8N	14.3E		2.9L		
NEIC	M_L3.3(GRF), M_L3.1(LJU)							
NEIC	ML 3.0 (VIE). Felt I=IV MM at Logatec, Postojna and Vrhnika, Slovenia.							
LJU	Felt I=V EMS in Planina pri Rakeku, Slovenia.							
LJU	**IX**	**05 10 59 58.6**	**46.1N**	**14.8E**	**0**			**¶97ix0738**
LJU	Quarry blast							
ISC	**IX**	**06 00 11 49**±1.2	**46.19N**±.083	**14.8E**±.12	**0**		**5**	**0-1**
LJU	IX	06 00 11 49.0	46.2N	14.8E	0			**¶97ix0822**
ISC	**IX**	**07 13 53 14.9**±.41	**42.03N**±.035	**20.29E**±.043	**10**		**40**	**0-9**
PDG	IX	07 13 53 15.9	42.0N	20.2E	18	3.3L,3.3D		**¶97ix1077**
TIR	IX	07 13 53 16.5	42.04N	20.10E	5	2.9L		
ROM	IX	07 13 53 18.8	42.0N	20.1E	10	3.1D		
THE	IX	07 13 53 40.3	40.8N	21.7E	10	2.9L		
LJU	**IX**	**08 04 55 49.4**	**46.0N**	**14.3E**	**7**			**¶97ix1175**
ISC	**IX**	**09 08 00 35**±1.1	**42.56N**±.074	**18.97E**±.098	**27**±15		**9**	**0-1**
PDG	IX	09 08 00 34.3	42.6N	19.0E	30	1.8L		**¶97ix1340**
LJU	**IX**	**09 11 41 23.4**	**46.0N**	**14.5E**	**0**			**¶97ix1371**
LJU	Quarry blast							
ISC	**IX**	**09 12 08 25.7**±.65	**42.09N**±.042	**20.07E**±.070	**5**		**14**	**0-1**
TIR	IX	09 12 08 25.5	42.16N	20.10E	5	2.3L		**¶97ix1373**
PDG	IX	09 12 08 26.9	42.1N	20.1E	21	2.5L		
LJU	**IX**	**09 14 41 59.9**	**46.2N**	**15.86E**	**7**			**¶97ix1394**
LJU	**IX**	**09 14 43 30.7**	**45.89N**	**14.2E**	**15**			**¶97ix1395**
ISC	**IX**	**10 00 33 28**±1.7	**45.7N**±.13	**15.9E**±.15	**21**		**7**	**0-1**
LJU	IX	10 00 33 28.4	45.75N	15.74E	21			**¶97ix1461**
ISC	**IX**	**12 00 42 08**±1.2	**45.92N**±.093	**14.2E**±.11	**10**		**6**	**0-1**
LJU	IX	12 00 42 06.9	45.9N	14.2E	20			**¶97ix1755**
NEIC	IX	12 00 42 07.7	45.89N	14.21E	10			
NEIC	M_L1.3(LJU), Single network solution.							
ISC	**IX**	**12 10 46 28.9**±.78	**42.11N**±.065	**19.25E**±.085	**18**		**11**	**0-1**
PDG	IX	12 10 46 29.0	42.1N	19.3E	18	2.1L,2.1D		**¶97ix1805**
ISC	**IX**	**13 03 53 23.8**±.30	**42.14N**±.027	**19.16E**±.035	**10**	3.2b	**50**	**0-28**
EIDC	IX	13 03 53 03.2	40.3N	18.7E	0	3.4b,3.6L		**¶97ix1913**
TIR	IX	13 03 53 22.6	42.12N	19.27E	23	3.0L		
ROM	IX	13 03 53 23.3	42.0N	19.5E	10	3.4D		
PDG	IX	13 03 53 23.8	42.1N	19.2E	17	3.3D		
THE	IX	13 03 53 24.1	42.0N	18.9E	10	3.0L		
ISC	**IX**	**13 12 12 59**±1.2	**46.09N**±.086	**15.1E**±.13	**12**		**4**	**0-1**
LJU	IX	13 12 12 59.5	46.1N	15.1E	12			**¶97ix1968**
ISC	Poorly determined							
ISC	**IX**	**14 11 14 21.2**±.78	**42.36N**±.056	**19.00E**±.067	**6**		**9**	**0-1**
PDG	IX	14 11 14 21.9	42.3N	19.0E	6	1.8L,1.8D		**¶97ix2112**
ISC	**IX**	**15 11 58 31**±9.1	**45.2N**±.49	**14.3E**±.36	**5**		**4**	**0-1**
LJU	IX	15 11 58 32.5	45.3N	14.3E	5			**¶97ix2240**
ISC	Poorly determined							
ZAG	Felt in Rijeka (after RIY)							
ISC	**IX**	**16 15 57 50**±1.3	**42.80N**±.071	**18.1E**±.12	**5**		**10**	**0-3**
PDG	IX	16 15 57 47.9	42.9N	17.8E	5	2.7L		**¶97ix2406**
ISC	**IX**	**16 16 29 17**±1.4	**46.65N**±.076	**15.2E**±.18	**0**		**4**	**0-1**
LJU	IX	16 16 29 17.6	46.7N	15.3E	0			**¶97ix2408**
ISC	ML2.2(after ARSA), ML2.5(after MOA), Poorly determined							
LJU	Quarry blast							
ISC	**IX**	**18 13 18 01**±4.5	**41.3N**±.36	**22.0E**±.17	**11**		**4**	**0-1**
THE	IX	18 13 18 02.7	41.2N	22.0E	11	1.5L		**¶97ix2663**
ISC	Poorly determined							
ISC	**IX**	**19 08 08 12**±1.2	**42.76N**±.059	**18.3E**±.11	**10**		**11**	**0-4**
PDG	IX	19 08 08 09.1	42.8N	18.0E	10	2.6L		**¶97ix2762**
ISC	**IX**	**19 10 57 15**±2.7	**46.24N**±.071	**15.9E**±.28	**0**		**6**	**0-1**
LJU	IX	19 10 57 14.8	46.2N	16.0E	0			**¶97ix2784**
LJU	Quarry blast							
LJU	**IX**	**19 12 41 30.9**	**46.0N**	**14.2E**	**7**			**¶97ix2791**
ISC	**IX**	**21 00 36 33**±3.4	**45.1N**±.22	**14.9E**±.11	**7**		**9**	**0-3**
LJU	IX	21 00 36 30.4	45.0N	14.81E	7			**¶97ix3020**
ISC	$ML_{2.4}$(ARSA), $ML_{2.7}$(MOA)							
ISC	**IX**	**22 05 36 48.5**±.38	**43.75N**±.051	**17.38E**±.057	**5**		**36**	**1-9**
PDG	IX	22 05 36 46.2	43.8N	17.3E	5	3.1L		**¶97ix3223**
LDG	IX	22 05 36 47.9	44.0N	17.8E		3.6L		
ISC	**IX**	**22 07 15 21**±2.0	**42.3N**±.10	**19.5E**±.12	**21**±41		**7**	**0-1**
PDG	IX	22 07 15 20.7	42.3N	19.5E	26	1.7L		**¶97ix3239**
LJU	**IX**	**22 14 31 51.8**	**45.7N**	**15.1E**	**7**			**¶97ix3295**
ISC	**IX**	**23 17 23 47**±2.6	**45.3N**±.18	**14.6E**±.10	**7**		**6**	**0-1**
LJU	IX	23 17 23 46.8	45.2N	14.6E	7			**¶97ix3458**
ISC	**IX**	**24 01 15 47.6**±.82	**43.30N**±.050	**19.82E**±.079	**10**		**19**	**0-5**
PDG	IX	24 01 15 46.8	43.3N	20.0E	10	2.8L		**¶97ix3506**
ISC	**IX**	**24 16 01 26**±1.1	**42.12N**±.080	**19.2E**±.10	**18**		**8**	**0-1**
PDG	IX	24 16 01 25.8	42.1N	19.2E	18	1.7L		**¶97ix3599**
ISC	**IX**	**25 18 36 18**±4.7	**45.6N**±.36	**14.2E**±.22	**15**±28		**6**	**0-1**
LJU	IX	25 18 36 19.1	45.6N	14.3E	12			**¶97ix3771**
PDG	**IX**	**26 06 10 12.2**	**42.4N**	**19.3E**	**23**	**1.4L**		**¶97ix3891**
ISC	**IX**	**27 07 48 13**±1.1	**45.99N**±.086	**14.21E**±.098	**10**		**6**	**0-1**
NEIC	IX	27 07 48 12.0	45.97N	14.12E	10			**¶97ix4293**
LJU	IX	27 07 48 12.9	45.99N	14.2E	9			
NEIC	M_L2.1(LJU), Poor solution.							
NEIC	Felt I=IV MM at Logatec and Petkovec, Slovenia.							
LJU	Felt I=III EMS in Breg pri Brezovici, Zibrse and Rovte, Slovenia							
ISC	**IX**	**29 13 10 18.6**±.98	**41.24N**±.077	**21.99E**±.082	**10**		**6**	**0-1**
THE	IX	29 13 10 20.7	41.2N	22.0E	10	1.5L		**¶97ix4953**
ISC	**IX**	**30 03 38 26**±1.3	**42.26N**±.089	**19.6E**±.11	**20**		**9**	**0-1**
PDG	IX	30 03 38 26.4	42.3N	19.6E	20	2.0L		**¶97ix5113**
LJU	**IX**	**30 08 43 56.7**	**46.3N**	**15.1E**	**7**			**¶97ix5178**
LJU	**IX**	**30 10 25 00.0**	**46.27N**	**16.0E**	**0**			**¶97ix5201**
LJU	Quarry blast							
ISC	**IX**	**30 14 27 07**±1.6	**45.7N**±.11	**15.5E**±.12	**6**		**6**	**0-1**
LJU	IX	30 14 27 07.4	45.7N	15.50E	6			**¶97ix5249**
NEIC	IX	30 14 27 08.4	45.77N	15.55E	10			
NEIC	M_L1.1(LJU), Less reliable solution.							
LJU	**IX**	**30 14 47 18.5**	**46.1N**	**15.6E**	**7**			**¶97ix5252**
ISC	**X**	**01 15 21 23**±4.7	**42.79N**±.095	**18.2E**±.39	**11**		**10**	**0-2**
PDG	X	01 15 21 17.7	42.9N	17.8E	11	2.6L		**¶97x0108**
ISC	**X**	**02 03 21 06**±1.1	**42.09N**±.068	**19.27E**±.093	**10**		**8**	**0-1**
PDG	X	02 03 21 06.4	42.1N	19.3E	10	1.3L		**¶97x0196**
ISC	**X**	**02 04 32 41**±1.2	**42.08N**±.075	**19.29E**±.095	**15**		**8**	**0-1**
PDG	X	02 04 32 41.3	42.1N	19.3E	15	1.4L		**¶97x0205**
ISC	**X**	**02 04 58 32**±1.1	**42.08N**±.069	**19.30E**±.095	**9**		**8**	**0-1**
PDG	X	02 04 58 32.5	42.1N	19.3E	9	1.3L		**¶97x0210**
ISC	**X**	**02 05 34 01**±1.0	**42.08N**±.063	**19.24E**±.092	**5**		**8**	**0-1**
PDG	X	02 05 34 02.0	42.1N	19.2E	5	1.3L		**¶97x0215**
ISC	**X**	**02 06 58 53**±1.0	**42.09N**±.065	**19.24E**±.090	**8**		**8**	**0-1**
PDG	X	02 06 58 53.4	42.1N	19.2E	8	1.4L		**¶97x0229**
ISC	**X**	**02 07 31 56**±1.2	**42.08N**±.071	**19.29E**±.095	**12**		**8**	**0-1**
PDG	X	02 07 31 56.6	42.1N	19.3E	12	1.6L		**¶97x0233**
ISC	**X**	**02 12 59 29**±1.1	**42.10N**±.063	**19.32E**±.092	**4**		**9**	**0-1**
PDG	X	02 12 59 29.8	42.1N	19.3E	4	1.4L		**¶97x0289**
ISC	**X**	**03 03 20 59**±1.2	**42.08N**±.073	**19.32E**±.096	**11**		**8**	**0-1**
PDG	X	03 03 20 59.3	42.1N	19.3E	11	1.7L		**¶97x0376**
ISC	**X**	**03 18 30 02**±1.2	**42.09N**±.077	**19.33E**±.099	**11**		**7**	**0-1**
PDG	X	03 18 30 02.6	42.1N	19.3E	11	1.5L		**¶97x0505**
ISC	**X**	**04 02 47 58**±2.4	**43.2N**±.12	**18.7E**±.15	**6**		**13**	**0-3**
PDG	X	04 02 47 57.6	43.2N	18.6E	6	2.5L		**¶97x0564**
ISC	**X**	**04 15 55 32**±1.4	**43.13N**±.092	**18.99E**±.099	**0**		**7**	**0-1**
PDG	X	04 15 55 33.2	43.1N	19.0E	0	1.8L		**¶97x0679**
ISC	**X**	**05 05 54 16.2**±.55	**46.21N**±.049	**14.53E**±.058	**24**±8.1		**35**	**0-7**
LJU	X	05 05 54 14.7	46.3N	14.6E	22			**¶97x0811**
NEIC	X	05 05 54 15.0	46.25N	14.49E	10			
LDG	X	05 05 54 15.4	46.3N	14.7E		3.0L		
ROM	X	05 05 54 16.0	46.5N	14.5E	5	3.2D		
LJU	Felt I=IV EMS in Smartno, Kamnik, Spodnje Stranje, Lukovica, Logarska Dolina, Ceska koca and Zgornje Jezersko, Slovenia.							
NEIC	M_L3.0(LJU)							
NEIC	ML 2.9 (VIE). Felt I=IV MSK at Kamnik and Predvor and III MSK at Ljubljana, Slovenia.							
ISC	**X**	**06 14 00 12**±2.0	**42.4N**±.12	**19.2E**±.22	**23**		**5**	**0-1**
PDG	X	06 14 00 12.3	42.5N	19.3E	23	1.1L		**¶97x1059**
LJU	**X**	**06 16 01 14.0**	**46.6N**	**15.3E**	**0**			**¶97x1073**
LJU	Quarry blast							
THE	**X**	**07 11 29 43.1**	**41.3N**	**22.5E**	**15**	**1.6L**		**¶97x1237**
ISC	**X**	**08 11 01 37**±2.4	**46.24N**±.068	**15.8E**±.24	**0**		**7**	**0-1**
LJU	X	08 11 01 34.8	46.2N	16.1E	0			**¶97x1400**
LJU	Quarry blast							
LJU	**X**	**08 11 51 16.0**	**46.23N**	**16.1E**	**0**			**¶97x1409**
LJU	Quarry blast							
ISC	**X**	**09 17 56 11.3**±.85	**42.30N**±.061	**19.04E**±.071	**12**		**9**	**0-1**
PDG	X	09 17 56 11.9	42.3N	19.0E	12	1.7L		**¶97x1612**

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**10 07 43 57.0**±.71	**42.02N**±.069	**19.90E**±.086	**30**		**13**	**0-1**
TIR	X	10 07 43 55.7	41.90N	19.84E	30	1.9L		¶97x1716
PDG	X	10 07 43 56.4	42.0N	19.9E	21	1.8L		
LJU	**X**	**10 10 53 37.8**	**46.0N**	**14.1E**	**0**			¶97x1741
LJU		Quarry blast						
ISC	**X**	**11 05 08 31**±1.7	**41.1N**±.11	**22.39E**±.093	**1**±25		**8**	**0-2**
THE	X	11 05 08 32.4	41.1N	22.4E	1	2.0L		¶97x1852
ISC	**X**	**11 09 19 10**±1.5	**41.2N**±.13	**21.98E**±.070	**4**±15		**9**	**0-2**
THE	X	11 09 19 11.1	41.2N	22.0E	1	2.0L		¶97x1872
ISC	**X**	**12 02 12 40**±1.2	**45.81N**±.071	**15.4E**±.16	**9**		**5**	**0-1**
LJU	X	12 02 12 40.4	45.8N	15.4E	9			¶97x1974
ISC	**X**	**13 00 56 34**±1.3	**42.77N**±.058	**18.4E**±.13	**1**		**10**	**0-2**
PDG	X	13 00 56 26.8	42.9N	17.8E	1	2.5L		¶97x2137
ISC	**X**	**15 09 34 01.9**±.57	**43.8N**±.11	**17.1E**±.16	**3**		**23**	**1-6**
PDG	X	15 09 34 04.3	43.7N	17.3E	3	3.3L		¶97x2598
SKO	**X**	**15 12 06 13.6**	**41.77N**	**21.53E**	**16**			¶97x2627
ISC	**X**	**16 01 17 32**±1.4	**46.01N**±.073	**15.3E**±.19	**0**		**4**	**0-1**
LJU	X	16 01 17 31.9	46.0N	15.32E	0			¶97x2760
ISC		Poorly determined						
ISC	**X**	**17 11 52 45.7**±.98	**42.83N**±.072	**18.05E**±.090	**9**		**14**	**0-4**
PDG	X	17 11 52 45.3	42.9N	17.9E	9	2.6L		¶97x2979
ISC	**X**	**17 18 20 22**±1.5	**45.9N**±.13	**14.1E**±.13	**13**		**5**	**0-1**
LJU	X	17 18 20 21.6	45.9N	14.1E	13			¶97x3038
NEIC	X	17 18 20 21.7	45.89N	14.07E	10			
NEIC		M_L1.3(LJU), Poor solution.						
ISC	**X**	**18 13 42 24**±1.5	**41.2N**±.16	**21.94E**±.094	**5**		**6**	**0-5**
SKO	X	18 13 42 24.7	41.18N	21.94E	5			¶97x3167
ISC		Poorly determined						
ISC	**X**	**18 17 26 52.3**±.65	**41.82N**±.043	**22.94E**±.059	**3**		**15**	**0-2**
SOF	X	18 17 26 52.6	41.83N	22.90E	0	2.7D		¶97x3200
THE	X	18 17 26 54.3	41.8N	22.9E	3	2.7L		
ISC	**X**	**21 14 23 54**±1.3	**46.18N**±.088	**14.4E**±.10	**10**±18		**8**	**0-1**
NEIC	X	21 14 23 54.1	46.22N	14.34E	10			¶97x3662
LJU	X	21 14 23 54.3	46.2N	14.4E	15			
NEIC		M_L2.2(LJU), Single network solution.						
LJU	**X**	**22 07 21 14.9**	**46.1N**	**15.3E**	**7**			¶97x3765
ISC	**X**	**22 09 31 23.7**±.68	**41.17N**±.062	**21.96E**±.056	**3**		**12**	**0-2**
THE	X	22 09 31 25.2	41.2N	22.0E	3	2.0L		¶97x3785
ISC	**X**	**22 17 45 07.2**±.29	**42.44N**±.032	**19.70E**±.035	**10**		**52**	**0-8**
TIR	X	22 17 45 04.3	42.54N	19.74E	5	3.0L		¶97x3861
PDG	X	22 17 45 06.2	42.4N	19.7E	16	3.1L,3.3D		
NEIC	X	22 17 45 07.5	42.52N	19.91E	10			
THE	X	22 17 45 25.4	41.8N	21.1E	0	2.8L		
NEIC		Less reliable solution.						
ISC	**X**	**23 16 36 34.7**±.74	**42.38N**±.064	**18.38E**±.080	**20**		**16**	**0-6**
PDG	X	23 16 36 33.3	42.3N	18.3E	20	2.6L		¶97x4028
ISC	**X**	**24 07 36 47.9**±.47	**45.97N**±.043	**14.34E**±.047	**10**		**22**	**0-5**
ROM	X	24 07 36 47.0	46.3N	14.4E	10	3.2D		¶97x4121
LJU	X	24 07 36 47.5	46.0N	14.3E	14			
NEIC	X	24 07 36 48.2	45.95N	14.31E	10			
LJU		Felt I=IV−V EMS in Butajnova, Slovenia						
NEIC		$M_{L3.1}$(VIE), $M_{L2.6}$(LJU)						
NEIC		Felt I=IV MM at Horjul and Vrhnika, Slovenia.						
ISC	**X**	**24 11 10 25**±1.0	**42.65N**±.095	**19.1E**±.10	**14**		**5**	**0-1**
PDG	X	24 11 10 25.0	42.7N	19.1E	14	1.3L		¶97x4154
LJU	**X**	**24 13 04 14.2**	**46.6N**	**15.4E**	**0**			¶97x4168
LJU	**X**	**24 13 57 06.3**	**45.6N**	**14.2E**	**7**			¶97x4178
ISC	**X**	**24 20 55 02.3**±.44	**41.61N**±.035	**22.36E**±.041	**5**		**29**	**0-3**
NEIC	X	24 20 55 02.3	41.64N	22.32E	5			¶97x4222
ATH	X	24 20 55 02.9	41.69N	22.45E	5	3.2D		
SKO	X	24 20 55 03.1	41.57N	22.27E	8			
THE	X	24 20 55 03.5	41.6N	22.4E	3	3.3L		
ISC	**X**	**25 03 39 51.3**±.64	**41.62N**±.044	**22.30E**±.055	**10**		**18**	**0-2**
NEIC	X	25 03 39 51.8	41.64N	22.30E	10			¶97x4266
SKO	X	25 03 39 52.4	41.55N	22.24E	7			
THE	X	25 03 39 52.7	41.6N	22.3E	0	2.5L		
ISC	**X**	**26 09 28 17.3**±.27	**46.29N**±.022	**14.44E**±.032	**10**		**93**	**0-9**
LJU	X	26 09 28 16.9	46.3N	14.5E	17			¶97x4442
NEIC	X	26 09 28 17.0	46.29N	14.38E	10			
ROM	X	26 09 28 17.9	46.5N	14.5E	10	3.5D		
LDG	X	26 09 28 18.0	46.3N	14.7E		3.2L		
SZGRF	X	26 09 28 20.8	46.5N	14.7E	10	3.6L		
LJU		Felt I=IV−V EMS in Potoce, Zgornja Bela Kranju, Slovenia Felt I=IV−V EMS in Potoce, Visoko pri Kranju, Slovenia						
NEIC		$M_{L3.5}$(VIE), $M_{L3.3}$(FUR)						
NEIC		ML 3.3 (LJU). Felt I=IV MM at Domzale, Kranj, Naklo and Trzin; III MM at Ljubljana, Slovenia. Also felt IV MM at Zell Pfarre, Austria.						
ISC	**X**	**26 17 19 36.4**±.51	**46.53N**±.040	**14.42E**±.056	**10**		**19**	**0-64**
LJU	X	26 17 19 37.3	46.5N	14.53E	19			¶97x4501
NEIC	X	26 17 19 39.0	46.44N	14.62E	10			
NEIC		$M_{L2.6}$(LJU), $M_{L2.5}$(VIE).						
ISC	**X**	**26 18 12 46**±1.2	**43.74N**±.053	**16.4E**±.14	**10**		**21**	**1-9**
NEIC	X	26 18 12 43.1	43.67N	16.59E	10			¶97x4508
ROM	X	26 18 12 48.2	43.8N	16.5E	10	3.3D		
LDG	X	26 18 12 52.9	43.6N	16.0E		3.0L		
NEIC		Poor solution.						
ZAG		Felt in Sinj, Muc and Neoric, Croatia (after HVAR)						
ISC	**X**	**27 04 40 53**±1.7	**46.4N**±.10	**14.4E**±.13	**10**		**6**	**0-1**
NEIC	X	27 04 40 52.5	46.36N	14.44E	10			¶97x4572
LJU	X	27 04 40 52.9	46.4N	14.5E	2			
NEIC		M_L1.7(LDG), Single network solution.						
ISC	**X**	**31 10 28 13.6**±.84	**41.26N**±.072	**21.96E**±.063	**1**±18		**10**	**0-1**
THE	X	31 10 28 14.8	41.2N	22.0E	7	2.8L		¶97x5165
LJU	**X**	**31 12 54 38.8**	**45.4N**	**15.7E**	**0**			¶97x5186
ISC	**X**	**31 20 03 09**±5.2	**41.8N**±.13	**22.6E**±.50	**18**±18		**7**	**0-2**
SOF	X	31 20 03 12.7	41.98N	23.11E	3	2.5D		¶97x5223
ISC	**XI**	**01 23 08 25**±1.5	**46.1N**±.13	**14.2E**±.15	**17**		**5**	**0-1**
LJU	XI	01 23 08 24.8	46.1N	14.2E	17			¶97xi0157
ISC		Poorly determined						
SOF	**XI**	**02 07 37 08.5**	**41.85N**	**22.91E**	**18**	**2.4D**		¶97xi0216
ISC	**XI**	**04 05 57 46**±1.2	**46.05N**±.064	**15.4E**±.35	**3**		**4**	**0-1**
LJU	XI	04 05 57 44.8	46.0N	15.3E	3			¶97xi0585
ISC		Poorly determined						
ISC	**XI**	**04 17 02 53**±1.1	**46.09N**±.082	**14.8E**±.11	**10**		**6**	**0-1**
LJU	XI	04 17 02 53.0	46.1N	14.7E	13			¶97xi0665
NEIC	XI	04 17 02 53.0	46.08N	14.78E	10			
NEIC		M_L1.6(LJU), Poor solution.						
LJU	**XI**	**05 09 59 52.0**	**46.1N**	**15.6E**	**7**			¶97xi0765
ISC	**XI**	**05 11 17 06**±3.4	**45.2N**±.22	**14.9E**±.11	**0**		**9**	**0-2**
LJU	XI	05 11 17 04.1	45.0N	15.0E	0			¶97xi0782
LJU	**XI**	**06 11 18 59.2**	**44.8N**	**15.9E**	**2**			¶97xi0967
ISC	**XI**	**06 11 24 06**±3.0	**46.23N**±.077	**15.9E**±.32	**0**		**5**	**0-1**
LJU	XI	06 11 24 04.6	46.2N	16.1E	0			¶97xi0969
LJU		Quarry blast						
ISC	**XI**	**07 04 42 46**±1.6	**46.93N**±.056	**15.6E**±.24	**0**		**7**	**0-3**
LJU	XI	07 04 42 46.7	46.9N	15.5E	0			¶97xi1073
ISC	**XI**	**07 06 32 59.3**±.49	**42.03N**±.044	**20.06E**±.054	**5**		**18**	**0-2**
TIR	XI	07 06 32 59.0	42.00N	20.13E	5	2.4L		¶97xi1088
PDG	XI	07 06 32 59.9	42.0N	20.1E	5	2.8L		
ISC	**XI**	**07 10 19 12**±1.2	**41.2N**±.14	**22.01E**±.073	**4**±28		**7**	**0-1**
THE	XI	07 10 19 11.9	41.2N	22.0E	1	1.9L		¶97xi1113
LJU	**XI**	**07 13 50 46.4**	**45.9N**	**15.4E**	**0**			¶97xi1131
LJU	**XI**	**07 15 10 23.1**	**45.92N**	**15.4E**	**1**			¶97xi1138
LJU	**XI**	**07 16 50 25.9**	**45.9N**	**15.5E**	**7**			¶97xi1147
ISC	**XI**	**09 07 44 57.9**±.63	**46.36N**±.045	**14.48E**±.065	**6**		**11**	**0-2**
LJU	XI	09 07 44 57.9	46.4N	14.48E	6			¶97xi1418
NEIC	XI	09 07 44 57.9	46.34N	14.44E	10			
LJU		Felt I=IV EMS in Preddvor, Slovenia.						
NEIC		$M_{L2.3}$(VIE), $M_{L2.2}$(LJU)						
NEIC		Felt I=III MM at Preddvor, Slovenia.						
ISC	**XI**	**09 18 57 14**±1.2	**42.2N**±.12	**21.4E**±.14	**23**		**13**	**0-2**
SKO	XI	09 18 57 12.4	42.23N	21.33E	23			¶97xi1494
PDG	XI	09 18 57 16.7	42.3N	21.1E	11	2.6L		
ISC	**XI**	**09 20 16 54**±1.2	**45.9N**±.13	**14.1E**±.11	**9**±16		**9**	**0-1**
LJU	XI	09 20 16 53.4	45.9N	14.0E	16			¶97xi1504
NEIC	XI	09 20 16 53.5	45.87N	13.98E	10			
NEIC		M_L1.8(LJU), Single network solution.						
LJU	**XI**	**10 16 10 26.4**	**46.0N**	**15.5E**	**0**			¶97xi1635
LJU	**XI**	**10 21 10 48.7**	**46.0N**	**15.8E**	**7**			¶97xi1677
ISC	**XI**	**11 12 00 37**±13	**41.8N**±.68	**22.7E**±.32	**0**		**5**	**1-2**
THE	XI	11 12 00 40.1	41.7N	22.8E	0	2.2L		¶97xi1781
ISC	**XI**	**13 00 48 45.1**±.65	**43.33N**±.019	**20.37E**±.021	**4**±4.9	**4.3b,3.7s**	**239**	**1-91**
NEIC	XI	13 00 48 45.7	43.31N	20.35E	10	4.3b		¶97xi2058
EIDC	XI	13 00 48 45.9	43.3N	20.5E	0	4.1b,4.3L		
PDG	XI	13 00 48 48.8	43.2N	20.3E	8	4.5L,4.3D		
NEIC		$M_{L4.7}$(THE), $M_{L4.4}$(ROM).						
ISC	**XI**	**13 06 13 19**±8.5	**43.2N**±.27	**20.3E**±.70	**18**		**6**	**0-1**
PDG	XI	13 06 13 19.2	43.2N	20.3E	18	2.3L		¶97xi2088
ISC	**XI**	**13 07 28 10**±6.2	**43.2N**±.24	**20.2E**±.52	**18**		**7**	**0-1**
PDG	XI	13 07 28 11.2	43.1N	20.1E	18	2.3L		¶97xi2094
ISC	**XI**	**13 21 21 40**±1.3	**42.01N**±.081	**19.19E**±.096	**7**		**8**	**0-1**
PDG	XI	13 21 21 40.1	42.0N	19.2E	7	2.1L		¶97xi2193
ISC	**XI**	**14 05 58 31**±1.5	**44.20N**±.070	**15.4E**±.17	**10**		**31**	**1-7**
NEIC	XI	14 05 58 26.8	43.96N	15.64E	10			¶97xi2250
ROM	XI	14 05 58 29.5	44.0N	15.8E	10	3.3D		
LDG	XI	14 05 58 35.7	43.9N	15.1E		3.2L		
NEIC		M_L3.1(VIE), Less reliable solution.						
ISC	**XI**	**15 21 16 46.4**±.95	**41.82N**±.049	**22.82E**±.071	**3**±9.5		**15**	**1-3**
SOF	XI	15 21 16 46.6	41.82N	22.82E	1	2.8D		¶97xi2539
THE	XI	15 21 16 48.6	41.8N	22.8E	4	3.1L		
LJU	**XI**	**16 08 50 28.1**	**46.0N**	**15.5E**	**0**			¶97xi2623
LJU	**XI**	**17 04 19 46.6**	**45.9N**	**16.3E**	**9**			¶97xi2735
ZAG		Felt Blaskovec, Adamovec						
ISC	**XI**	**17 19 30 55.7**±.98	**42.60N**±.050	**18.62E**±.097	**13**		**12**	**0-3**
PDG	XI	17 19 30 56.0	42.6N	18.6E	13	2.3L		¶97xi2852
LJU	**XI**	**20 12 49 41.1**	**45.8N**	**15.1E**	**0**			¶97xi3464
LJU		Quarry Blast						
ISC	**XI**	**20 20 26 28**±7.8	**45.9N**±.12	**16.4E**±.63	**1**		**6**	**0-1**
LJU	XI	20 20 26 29.7	45.9N	16.3E	1			¶97xi3528
ZAG		Felt I=IV MSK Blaskovec, Donga Zelina						
ISC	**XI**	**21 17 36 55**±2.3	**42.1N**±.12	**19.7E**±.15	**6**		**8**	**0-1**
PDG	XI	21 17 36 54.9	42.1N	19.7E	6	1.9L		¶97xi3697
ISC	**XI**	**26 13 49 30**±4.4	**42.4N**±.13	**19.3E**±.33	**28**±35		**5**	**0-1**
PDG	XI	26 13 49 30.0	42.4N	19.3E	26	1.3L		¶97xi4693
ISC		Poorly determined						
ISC	**XI**	**26 19 15 17**±1.5	**44.01N**±.024	**16.58E**±.029	**7**±12	**3.8b**	**132**	**1-89**
PDG	XI	26 19 15 15.2	44.0N	16.2E	14	4.1L,3.9D		¶97xi4735
NEIC	XI	26 19 15 16.6	43.99N	16.54E	10	4.2b		
ROM	XI	26 19 15 17.6	44.0N	16.9E	10	3.5D		
STR	XI	26 19 15 17.7	44.10N	16.80E	6	3.9L		
LDG	XI	26 19 15 17.7	44.1N	16.8E		3.9L		
THE	XI	26 19 15 19.3	43.9N	16.3E	15	4.1L		
EIDC	XI	26 19 15 23.9	44.2N	16.8E	47	3.5b,3.8L		
NEIC		$M_{L3.7}$(VIE).						
ZAG		Felt Sinj (after HVAR)						
LJU	**XI**	**28 10 37 26.4**	**46.1N**	**14.6E**	**7**			¶97xi5064
LJU	**XI**	**28 11 02 06.6**	**46.4N**	**15.5E**	**0**			¶97xi5068
LJU	**XI**	**28 12 08 49.6**	**46.4N**	**14.8E**	**0**			¶97xi5080
LJU	**XI**	**28 15 14 42.7**	**45.1N**	**14.5E**	**0**			¶97xi5108
LJU		Quarry blast						
ISC	**XI**	**29 00 00 39**±1.2	**41.81N**±.057	**22.8E**±.12	**6**±13		**12**	**0-2**
THE	XI	29 00 00 41.4	41.8N	22.8E	7	2.5L		¶97xi5160
ISC	**XI**	**29 17 18 25**±1.6	**45.65N**±.074	**14.1E**±.13	**0**		**7**	**0-1**
LJU	XI	29 17 18 25.0	45.6N	14.2E	0			¶97xi5294
ISC	**XI**	**30 09 35 50**±1.3	**46.14N**±.097	**15.1E**±.18	**20**		**5**	**0-1**
LJU	XI	30 09 35 49.8	46.2N	15.0E	20			¶97xi5394
ISC		Poorly determined						
ISC	**XII**	**01 00 42 57**±1.7	**45.96N**±.085	**16.0E**±.15	**11**		**16**	**0-6**
ZAG	XII	01 00 42 55	45.94N	16.25E	11	3.2L		¶97xii0004
LJU	XII	01 00 42 56.5	46.0N	16.1E	8			
NEIC	XII	01 00 42 57.0	45.92N	16.11E	10			
ZAG		Felt in Kasina						
NEIC		$M_{L3.1}$(VIE), $M_{L2.5}$(LJU)						
ISC	**XII**	**01 01 33 01.1**±.85	**42.31N**±.065	**19.03E**±.070	**9**		**8**	**0-1**
PDG	XII	01 01 33 01.7	42.3N	19.0E	9	1.7L		¶97xii0009
ISC	**XII**	**01 02 28 07**±2.9	**45.95N**±.076	**16.1E**±.31	**10**		**7**	**0-4**
ZAG	XII	01 02 28 06	45.94N	16.22E	10	3.0L		¶97xii0016
LJU	XII	01 02 28 07.2	46.0N	16.1E	0			
NEIC	XII	01 02 28 07.9	45.92N	16.06E	10			
ZAG		Felt in Kasina						
NEIC		M_L2.7(VIE), M_L2.3(LJU). Less reliable solution.						
ISC	**XII**	**01 03 18 21**±6.0	**45.9N**±.13	**16.4E**±.52	**10**		**5**	**0-1**
ZAG	XII	01 03 18 24	45.94N	16.16E	10	2.7L		¶97xii0022
LJU	XII	01 03 18 24.7	45.9N	16.1E	11			
ZAG		Felt in Kasina						
ISC	**XII**	**01 18 04 12**±1.6	**45.93N**±.058	**16.0E**±.15	**10**		**12**	**0-4**
ZAG	XII	01 18 04 11	45.94N	16.14E	10	2.9L		¶97xii0123
LJU	XII	01 18 04 12.2	45.9N	16.05E	10			
NEIC	XII	01 18 04 12.6	45.93N	16.06E	10			
ZAG		Felt in Kasina						

NEIC M_L3.1(VIE). Less reliable solution.
LJU XII 02 12 18 28.1 46.1N 14.6E 20 ¶97xii0242
LJU XII 02 13 31 33.3 46.2N 15.8E 7 ¶97xii0255
ISC XII 02 16 13 11±8.7 **45.8N**±.73 **21.0E**±.39 **33** 3.2b **5 6-24**
EIDC XII 02 16 12 58.8 45.0N 21.4E 0 3.7L,3.4b **¶97xii0281**
EIDC Origin time error = 11.28Error ellipse is semi−major=159.1km semi−minor=61.5km azimuth=171
ISC XII 02 21 27 31.8±.91 **42.45N**±.073 **19.17E**±.093 **18** **7 0-1**
PDG XII 02 21 27 31.9 42.5N 19.2E 18 1.8L **¶97xii0314**
SOF XII 02 21 49 39.4 41.83N 22.84E 6 2.4b ¶97xii0319
LJU XII 04 12 26 46.7 45.1N 14.6E 5 ¶97xii0612
ISC XII 04 20 46 55±10 **45.1N**±.60 **14.6E**±.20 **5** **6 0-1**
NEIC XII 04 20 46 56.0 45.16N 14.57E 5 **¶97xii0690**
NEIC M_L1.8(LJU), Poor solution.
LJU XII 05 00 23 48.8 45.9N 15.5E 10 ¶97xii0734
LJU XII 05 09 52 29.5 46.1N 15.1E 36 ¶97xii0824
LJU XII 05 10 46 24.8 46.4N 15.1E 9 ¶97xii0829
ISC XII 05 14 27 52.4±.83 **41.18N**±.072 **21.97E**±.069 **3**±24 **8 0-1**
THE XII 05 14 27 53.9 41.2N 22.0E 10 1.6L **¶97xii0904**
LJU XII 05 15 55 35.4 46.0N 15.4E 7 ¶97xii0941
LJU XII 06 10 48 17.1 45.6N 14.22E 9 ¶97xii1369
LJU XII 06 12 19 41.0 46.7N 15.23E 0 ¶97xii1399
LJU Quarry blast
ISC XII 07 14 23 15±2.6 **46.20N**±.083 **16.0E**±.25 **0** **9 0-3**
LJU XII 07 14 23 13.9 46.2N 16.1E 0 **¶97xii1717**
NEIC XII 07 14 23 16.3 46.20N 15.99E 10
LJU Quarry blast
NEIC Less reliable solution.
ISC XII 08 08 30 59.0±.64 **46.01N**±.049 **15.36E**±.064 **10** **14 0-2**
NEIC XII 08 08 30 59.2 45.99N 15.37E 10 **¶97xii1893**
LJU XII 08 08 30 59.5 46.02N 15.3E 5
NEIC $M_{L2.5}$(VIE), $M_{L1.9}$(LJU)
NEIC Felt I=IV MSK at Sevnica, Slovenia.
LJU Felt I=IV EMS in Canje pri Blanci, Slovenia.
LJU XII 09 12 03 42.9 46.3N 16.0E 0 ¶97xii2163
LJU Quarry blast
ISC XII 09 22 36 04.7±.73 **46.46N**±.045 **14.40E**±.085 **11** **10 0-1**
LJU XII 09 22 36 04.8 46.5N 14.4E 11 **¶97xii2249**
NEIC XII 09 22 36 05.6 46.43N 14.40E 10
NEIC $M_{L2.4}$(VIE).
ISC XII 10 13 55 49±2.1 **41.3N**±.16 **22.6E**±.13 **10** **5 0-1**
THE XII 10 13 55 50.0 41.3N 22.6E 10 2.4L **¶97xii2366**
ISC XII 10 22 04 18±4.0 **45.6N**±.23 **14.1E**±.26 **10** **4 0-1**
NEIC XII 10 22 04 18.5 45.68N 14.12E 10 **¶97xii2435**
LJU XII 10 22 04 18.9 45.7N 14.2E 11
ISC Poorly determined
NEIC M_L1.0(LJU), Poor solution.
ISC XII 12 10 29 05.0±.73 **41.20N**±.065 **21.98E**±.058 **0** **11 0-2**
SKO XII 12 10 29 05.0 41.20N 21.98E 22 **¶97xii2731**
THE XII 12 10 29 05.4 41.3N 22.0E 0 2.0L
ISC XII 12 21 47 40.3±.60 **45.90N**±.049 **14.93E**±.058 **6**±13 **14 0-3**
LJU XII 12 21 47 39.8 45.9N 14.9E 21 **¶97xii2823**
NEIC XII 12 21 47 40.6 45.87N 14.93E 10
NEIC $M_{L2.4}$(VIE), $M_{L2.1}$(LJU).
ISC XII 12 21 51 36.2±.52 **45.90N**±.047 **14.93E**±.046 **10** **19 0-3**
LJU XII 12 21 51 35.9 45.9N 14.9E 17 **¶97xii2826**
NEIC XII 12 21 51 36.6 45.87N 14.94E 10
NEIC $M_{L3.0}$(VIE), $M_{L2.5}$(LJU).
ISC XII 14 10 01 44.7±.99 **45.98N**±.072 **14.6E**±.10 **10** **6 0-1**
NEIC XII 14 10 01 44.7 45.98N 14.64E 10 **¶97xii3130**
LJU XII 14 10 01 44.9 46.0N 14.62E 8
NEIC M_L1.5(LJU), Single network solution.
SKO XII 14 20 49 12.8 42.22N 21.44E 19 ¶97xii3193
ISC XII 15 05 41 35.7±.27 **42.31N**±.033 **20.10E**±.035 **20** **73 0-13**
TIR XII 15 05 41 32.5 42.36N 20.20E 16 3.0L **¶97xii3246**
NEIC XII 15 05 41 32.8 42.50N 20.09E 10
LDG XII 15 05 41 33.9 42.4N 20.4E 3.9L
PDG XII 15 05 41 34.1 42.3N 20.2E 20 3.5D
THE XII 15 05 41 39.2 42.1N 20.3E 10 3.2L
NEIC $M_{L3.3}$(ROM).
LJU XII 15 10 19 44.7 45.9N 15.50E 8 ¶97xii3265
ISC XII 15 10 56 13.4±.49 **42.25N**±.029 **20.08E**±.030 **5**±3.7 **4.0b 108 0-92**
LDG XII 15 10 56 11.1 42.2N 20.7E 4.3L **¶97xii3275**
NEIC XII 15 10 56 13.3 42.21N 20.04E 10 3.9b
TIR XII 15 10 56 14.3 42.34N 20.06E 8 3.5L
EIDC XII 15 10 56 14.7±.70 42.2N 20.1E 0 4.0b,4.2L
PDG XII 15 10 56 15.1 42.3N 20.1E 15 3.9D
TIR Felt I=IV−V MSK at Department of Tropoje
EIDC Error ellipse is semi−major=20.3km semi−minor=13.9km azimuth=83
ISC XII 15 16 59 41.9±.89 **42.34N**±.069 **20.07E**±.092 **13** **7 0-2**
PDG XII 15 16 59 41.8 42.3N 20.2E 13 2.1L **¶97xii3311**
ISC XII 15 19 19 12.2±.57 **42.34N**±.043 **20.13E**±.059 **14** **20 0-3**
TIR XII 15 19 19 10.8 42.38N 20.22E 14 2.4L **¶97xii3330**
PDG XII 15 19 19 12.7 42.3N 20.2E 14 3.0L,3.0D
ISC XII 16 08 41 13±2.2 **42.33N**±.083 **18.96E**±.094 **12**±30 **7 0-1**
PDG XII 16 08 41 13.7 42.3N 18.9E 10 1.6L **¶97xii3417**
LJU XII 16 21 36 33.5 45.3N 14.4E 33 ¶97xii3512
ISC XII 18 19 14 13.7±.61 **42.33N**±.034 **20.16E**±.042 **3**±5.2 **54 0-11**
NEIC XII 18 19 14 14.4 42.29N 20.16E 10 **¶97xii3808**
PDG XII 18 19 14 15.2 42.3N 20.1E 20 3.3D
TIR XII 18 19 14 16.6 42.23N 20.03E 3.2L
THE XII 18 19 14 16.7 42.3N 20.3E 0 3.1L
ATH XII 18 19 14 36.4 39.60N 22.75E 10
TIR Felt I=IV MSK at B.Curri
ISC XII 18 21 49 41±1.4 **41.71N**±.089 **22.83E**±.088 **6** **11 0-2**
ATH XII 18 21 49 40.1 38.97N 24.36E 10 **¶97xii3838**
THE XII 18 21 49 41.3 41.8N 22.9E 6 2.8L
ISC XII 18 23 18 38.7±.80 **42.33N**±.069 **20.17E**±.088 **18** **11 0-1**
PDG XII 18 23 18 38.7 42.3N 20.1E 18 2.3L **¶97xii3852**
ISC XII 19 00 07 40.2±.70 **42.35N**±.049 **20.13E**±.067 **15** **16 0-2**
PDG XII 19 00 07 40.4 42.3N 20.2E 15 2.5L **¶97xii3857**
TIR XII 19 00 07 40.8 42.45N 20.05E 1 2.1L
ISC XII 19 00 34 44±3.1 **42.4N**±.11 **20.0E**±.22 **10** **9 0-1**
PDG XII 19 00 34 44.3 42.3N 20.1E 10 1.8L **¶97xii3863**
ISC XII 20 05 00 18±2.0 **42.1N**±.13 **21.5E**±.16 **2** **10 0-3**
SOF XII 20 05 00 16.4 42.31N 21.48E 2 2.6D **¶97xii4082**
SKO XII 20 05 00 17.3 42.14N 21.50E 22
SOF XII 20 14 06 11.4 43.79N 21.87E 2 2.7D ¶97xii4129
ISC XII 21 10 01 47±1.1 **41.30N**±.086 **21.96E**±.095 **0** **5 0-1**
THE XII 21 10 01 46.7 41.4N 22.0E 0 1.7L **¶97xii4238**
ISC XII 22 02 36 27±1.7 **43.1N**±.10 **18.9E**±.12 **13** **6 0-1**
PDG XII 22 02 36 27.7 43.1N 18.9E 13 2.1L **¶97xii4336**
LJU XII 22 12 24 01.7 46.2N 15.6E 13 ¶97xii4420
LJU XII 23 21 02 54.1 46.9N 15.87E 7 ¶97xii4655
ISC XII 24 03 59 41±3.1 **46.44N**±.077 **15.2E**±.31 **12**±55 **5 0-1**
LJU XII 24 03 59 40.0 46.5N 15.0E 19 **¶97xii4699**
NEIC XII 24 03 59 41.1 46.44N 15.22E 10
ISC Poorly determined
NEIC M_L1.2(LJU), Less reliable solution.
ISC XII 24 11 54 10.6±.98 **42.69N**±.069 **19.17E**±.088 **5** **6 0-1**
PDG XII 24 11 54 11.3 42.7N 19.2E 5 1.2L **¶97xii4752**
ISC XII 25 14 17 08.5±.70 **41.21N**±.062 **21.99E**±.053 **0** **13 0-2**
THE XII 25 14 17 09.6 41.2N 22.0E 0 2.0L **¶97xii4944**
ISC XII 26 08 56 01±1.5 **42.1N**±.10 **19.5E**±.12 **20** **8 0-1**
PDG XII 26 08 56 01.1 42.1N 19.5E 20 1.7L **¶97xii5087**
ISC XII 26 10 27 39±1.4 **42.15N**±.079 **19.5E**±.10 **9** **8 0-1**
PDG XII 26 10 27 40.0 42.1N 19.5E 9 1.3L **¶97xii5103**
ISC XII 28 02 06 02±5.4 **43.2N**±.18 **20.1E**±.39 **8** **6 0-1**
PDG XII 28 02 05 59.4 43.3N 20.3E 8 2.1L **¶97xii5377**
LJU XII 29 15 47 54.9 45.2N 14.1E 13 ¶97xii5607
ISC XII 30 06 54 25±2.7 **45.9N**±.10 **14.6E**±.13 **14**±38 **5 0-1**
NEIC XII 30 06 54 25.0 45.90N 14.59E 10 **¶97xii5695**
LJU XII 30 06 54 25.4 45.9N 14.60E 6
ISC Poorly determined
NEIC Single network solution.
LJU XII 30 06 59 59.3 45.93N 14.4E 7 ¶97xii5696
ISC XII 31 09 27 54±1.5 **46.0N**±.17 **14.2E**±.14 **17** **4 0-1**
LJU XII 31 09 27 53.7 46.0N 14.3E 17 **¶97xii5870**
ISC Poorly determined
ISC XII 31 22 38 49.7±.83 **46.08N**±.074 **14.76E**±.075 **10** **7 0-1**
NEIC XII 31 22 38 49.6 46.08N 14.76E 10 **¶97xii5991**
LJU XII 31 22 38 49.9 46.1N 14.8E 11
NEIC M_L1.2(LJU), Single network solution.

(384) West of Gibraltar.

LIS VII 11 20 08 04 36.65N 9.68W 2.0L ¶97vii1722
ISC VII 14 15 00 05±3.9 **36.9N**±.24 **8.3W**±.10 **11**±13 **8 0-2**
LIS VII 14 15 00 05 36.80N 8.27W 2.3L **¶97vii2157**
ISC VII 15 23 14 21±7.8 **36.8N**±.43 **8.4W**±.15 **0** **6 0-1**
LIS VII 15 23 14 22 36.80N 8.38W 1.0L **¶97vii2368**
LIS VII 15 23 54 34 36.90N 9.00W 1.0L ¶97vii2371
ISC VII 17 20 31 54±9.7 **36.8N**±.53 **8.7W**±.22 **0** **5 0-1**
LIS VII 17 20 31 50 36.63N 8.85W 1.2L **¶97vii2642**
LIS VII 19 08 20 20 36.48N 8.38W 1.2L ¶97vii2846
ISC VII 19 15 39 15±9.1 **36.9N**±.48 **8.7W**±.23 **0** **6 0-1**
LIS VII 19 15 39 13 36.72N 8.82W 1.5L **¶97vii2907**
LIS VII 21 06 31 09 36.50N 9.63W 1.5L ¶97vii3208
LIS VII 24 15 23 55 36.90N 8.82W 1.0L ¶97vii3688
LIS VII 30 11 43 48 36.57N 9.82W 2.1L ¶97vii4576
ISC VII 31 08 46 16±4.2 **36.8N**±.25 **8.5W**±.14 **10**±14 **8 0-2**
LIS VII 31 08 46 17 36.82N 8.55W 1.9L **¶97vii4708**
MDD VII 31 08 46 17.2 36.83N 8.55W 12 1.9
ISC VIII 05 00 50 39±2.9 **37.0N**±.22 **8.4W**±.11 **21**±33 **6 0-0**
LIS VIII 05 00 50 40 37.02N 8.37W 15 0.9L **¶97viii0587**
ISC VIII 07 07 44 37±11 **36.7N**±.59 **8.5W**±.16 **0** **6 0-1**
LIS VIII 07 07 44 38 36.77N 8.47W 1.2L **¶97viii0903**
MDD VIII 15 22 59 58.0 36.59N 8.60W 51 3.7 ¶97viii2286
LIS VIII 15 22 59 59 36.65N 8.58W 24 2.3L
LIS VIII 20 11 36 54 36.47N 9.73W 1.6L ¶97viii2953
LIS VIII 21 03 32 53 36.55N 8.32W 1.3L ¶97viii3048
ISC VIII 22 21 29 47±7.5 **36.9N**±.42 **8.5W**±.14 **21**±61 **9 0-2**
LIS VIII 22 21 29 47 36.87N 8.47W 23 1.3L **¶97viii3288**
MDD VIII 22 21 29 47.5 36.85N 8.48W 10 2.3
LIS VIII 23 08 24 35 36.70N 9.73W 1.3L ¶97viii3367
ISC IX 02 01 16 40±7.7 **36.3N**±.54 **9.9W**±.94 **0** **5 1-2**
LIS IX 02 01 16 49.4 36.52N 9.47W 1.9L **¶97ix0198**
LIS IX 02 14 59 35.7 36.42N 8.18W 1.5L ¶97ix0289
ISC IX 03 15 54 02±6.3 **36.7N**±.27 **9.0W**±.34 **12** **11 0-2**
LIS IX 03 15 54 04 36.78N 8.93W 12 2.5L **¶97ix0445**
LIS IX 04 01 44 34.2 35.93N 8.97W 1.6L ¶97ix0528
LIS IX 04 08 05 40.6 36.65N 8.48W 1.2L ¶97ix0567
ISC IX 13 03 19 34.1±.99 **36.83N**±.069 **8.06W**±.086 **61**±12 **39 0-6**
MDD IX 13 03 19 36.0 36.84N 8.07W 44 3.1 **¶97ix1906**
LIS IX 13 03 19 36 36.82N 8.05W 3.1L
RBA IX 13 03 19 36.1 36.42N 8.28W 30 3.1D
LIS IX 16 09 05 47.6 34.45N 9.12W 2.6L ¶97ix2359
ISC IX 18 12 34 48±8.7 **36.2N**±.49 **9.6W**±.59 **0** **8 1-2**
LIS IX 18 12 34 52 36.28N 9.38W 2.2L **¶97ix2657**
ISC IX 19 09 05 05±6.5 **36.9N**±.37 **8.6W**±.12 **0** **6 0-1**
LIS IX 19 09 05 04 36.85N 8.62W 1.4L **¶97ix2766**
MDD IX 19 20 51 34.2 36.58N 8.07W 24 2.9 ¶97ix2847
LIS IX 19 20 51 34 36.58N 8.05W 1.9L
LIS X 03 16 25 12 36.93N 9.0W 1.6L ¶97x0491
LIS X 04 01 57 39 36.92N 8.95W 0.4L ¶97x0558
LIS X 07 03 20 36 36.57N 9.90W 1.5L ¶97x1168
LIS X 07 12 42 29 36.50N 9.68W 1.3L ¶97x1251
MDD X 15 14 18 46.4 36.66N 9.70W 21 3.4 ¶97x2652
LIS X 15 14 18 46 36.67N 9.72W 2.5L
MDD X 17 05 54 37.9 36.69N 9.65W 22 3.3 ¶97x2933
LIS X 17 05 54 38 36.67N 9.63W 2.3L
LIS X 17 10 31 44 36.83N 9.32W 1.8L ¶97x2962
LIS X 18 00 00 16 36.72N 9.85W 1.9L ¶97x3073
ISC XI 03 11 44 55±2.2 **36.00N**±.082 **9.0W**±.23 **15** **21 2-10**
MDD XI 03 11 45 04.4 36.2N 8.4W 15 2.8b **¶97xi0458**
LDG XI 03 11 45 04.7 36.2N 8.4W 3.7L
ISC XII 02 02 50 08.4±.87 **35.68N**±.048 **8.43W**±.088 **28** **43 1-8**
RBA XII 02 02 49 48.1 35.59N 8.38W 30 3.1D **¶97xii0175**
MDD XII 02 02 50 10.7 35.7N 8.4W 28 2.7b
LIS XII 02 02 50 13 35.75N 8.38W 2.9L
ISC XII 15 20 50 08±3.7 **36.8N**±.19 **9.6W**±.29 **16** **34 2-9**
MDD XII 15 20 50 08.8 36.7N 9.7W 16 2.8b **¶97xii3341**
LIS XII 15 20 50 10 36.65N 9.68W 2.2L
LIS XII 24 10 01 29 36.95N 8.91W 2.6L ¶97xii4742

(385) Straits of Gibraltar.

ISC VII 02 09 38 42.2±.61 **36.49N**±.028 **3.16W**±.027 **16**±4.8 **4.5b,4.1s 202 0-151**
STR VII 02 09 38 35.7 35.75N 3.14W 5 4.3L **¶97vii0213**
MOS VII 02 09 38 38.4 36.2N 3.1W 10 5.1b
NEIC VII 02 09 38 40.7 36.44N 3.10W 10 4.6b,4.3s
EIDC VII 02 09 38 40.9 36.5N 3.2W 0 4.4b,3.9s

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
MDD	VII	02 09 38 42.5		36.39N	3.17W	4	4.4		
LIS	VII	02 09 38 43		36.40N	3.17W		4.7L		
BJI	VII	02 09 38 43.3		37.28N	2.81W	5	4.9b,5.2s		
RBA	VII	02 09 38 44.6		36.48N	3.12W	30	4.2D		
LDG	VII	02 09 38 49.4		37.0N	3.4W		4.4L		
NEIC	mbLg4.6(MDD)								
NEIC	Felt I=IV MM (after STS)								
MDD	Felt I=IV MSK at southwest Adra								
ISC	**VII**	**02 09 51 58**±1.5		**36.57N**±.062	**3.15W**±.068	**7**±11		**18**	**0-4**
NEIC	VII	02 09 51 58.4		36.57N	3.16W	10			¶97vii0215
MDD	VII	02 09 51 59.0		36.54N	3.18W	2	3.2		
NEIC	mbLg3.2(MDD), Single network solution.								
ISC	**VII**	**02 09 52 43**±1.6		**36.60N**±.070	**3.08W**±.088	**7**±13		**11**	**0-2**
NEIC	VII	02 09 52 42.9		36.61N	3.08W	10			¶97vii0216
MDD	VII	02 09 52 43.8		36.58N	3.08W	7	2.9		
NEIC	mbLg2.6(MDD), Single network solution.								
ISC	**VII**	**02 10 04 58**±4.8		**36.5N**±.36	**3.2W**±.12	**10**		**7**	**0-2**
NEIC	VII	02 10 04 57.5		36.52N	3.19W	10			¶97vii0221
MDD	VII	02 10 04 59.0		36.58N	3.14W	4	3.0		
NEIC	mbLg2.8(MDD), Poor solution.								
ISC	**VII**	**02 12 52 34**±10		**36.5N**±.90	**3.1W**±.13	**1**		**4**	**0-1**
MDD	VII	02 12 52 36.0		36.51N	3.16W	1	2.9		¶97vii0242
ISC	Poorly determined								
ISC	**VII**	**02 12 53 07.2**±.77		**36.49N**±.032	**3.18W**±.032	**25**±6.6	**4.1b,3.6s**	**114**	**0-151**
NEIC	VII	02 12 53 05.1		36.38N	3.22W	10	4.0b		¶97vii0243
MDD	VII	02 12 53 07.2		36.44N	3.26W	2	4.3		
LIS	VII	02 12 53 08		36.38N	3.25W		4.6L		
EIDC	VII	02 12 53 08.7		36.5N	3.1W	26	4.0b,3.7s		
RBA	VII	02 12 53 09.2		36.44N	2.96W	30	4.2D		
LDG	VII	02 12 53 11.3		36.9N	4.0W		4.4L		
STR	VII	02 12 53 11.4		36.90N	4.00W	2	3.1L		
NEIC	mbLg4.4(MDD)								
MDD	Felt I=IV−V MSK at south Adra								
ISC	**VII**	**02 15 20 20**±2.1		**36.5N**±.16	**3.2W**±.10	**5**		**9**	**0-2**
NEIC	VII	02 15 20 21.4		36.62N	3.15W	5			¶97vii0258
MDD	VII	02 15 20 21.7		36.54N	3.16W	4	3.1		
NEIC	mbLg2.9(MDD), Single network solution.								
ISC	**VII**	**02 16 56 48**±1.4		**36.44N**±.066	**3.16W**±.078	**2**±11		**16**	**1-4**
NEIC	VII	02 16 56 48.8		36.44N	3.19W	10			¶97vii0269
MDD	VII	02 16 56 49.6		36.45N	3.16W	2	3.2		
NEIC	mbLg3.0(MDD), Single network solution.								
ISC	**VII**	**02 17 33 07.3**±.79		**36.50N**±.035	**3.11W**±.036	**26**±7.0	**3.8b**,4.0s	**94**	**0-151**
EIDC	VII	02 17 33 04.2		36.2N	3.3W	0	3.8b,3.4s		¶97vii0271
NEIC	VII	02 17 33 05.7		36.45N	3.18W	10	4.0b		
LDG	VII	02 17 33 05.9		36.4N	3.4W		4.2L		
LIS	VII	02 17 33 07		36.37N	3.23W		4.3L		
MDD	VII	02 17 33 07.2		36.39N	3.21W	2	4.1		
RBA	VII	02 17 33 11.9		36.26N	3.18W	30	3.9D		
NEIC	mbLg4.2(MDD)								
MDD	Felt I=IV MSK at southwest Adra								
ISC	**VII**	**02 18 10 46**±1.5		**36.6N**±.12	**3.12W**±.085	**10**		**12**	**0-2**
NEIC	VII	02 18 10 40.6		36.26N	3.26W	10			¶97vii0277
MDD	VII	02 18 10 46.7		36.60N	3.10W	2	2.9		
NEIC	mbLg2.8(MDD), Single network solution.								
MDD	**VII**	**02 22 06 46.7**		**36.56N**	**3.13W**	**3**	**2.7**		**¶97vii0307**
ISC	**VII**	**02 23 30 43**±1.7		**36.4N**±.12	**3.18W**±.091	**10**		**12**	**1-2**
NEIC	VII	02 23 30 42.3		36.39N	3.19W	10			¶97vii0321
MDD	VII	02 23 30 43.4		36.43N	3.17W	4	3.1		
NEIC	mbLg3.0(MDD), Single network solution.								
ISC	**VII**	**03 00 18 06**±3.9		**36.3N**±.18	**3.2W**±.11	**6**±18		**15**	**1-3**
NEIC	VII	03 00 18 07.2		36.37N	3.22W	10			¶97vii0326
MDD	VII	03 00 18 08.3		36.37N	3.21W	2	3.2		
NEIC	mbLg3.2(MDD), Single network solution.								
ISC	**VII**	**03 04 26 44**±1.6		**36.5N**±.12	**3.22W**±.087	**10**		**15**	**0-3**
NEIC	VII	03 04 26 43.7		36.41N	3.24W	10			¶97vii0356
MDD	VII	03 04 26 44.5		36.40N	3.21W	2	3.0		
NEIC	mbLg3.0(MDD), Single network solution.								
ISC	**VII**	**03 10 02 02**±2.6		**36.5N**±.15	**3.16W**±.084	**2**±12		**14**	**0-3**
NEIC	VII	03 10 02 00.3		36.33N	3.22W	10			¶97vii0390
MDD	VII	03 10 02 04.0		36.54N	3.19W	2	3.2		
NEIC	mbLg3.2(MDD), Single network solution.								
ISC	**VII**	**03 10 15 38**±4.1		**36.6N**±.28	**3.2W**±.13	**4**		**5**	**0-1**
MDD	VII	03 10 15 38.5		36.56N	3.19W	4	2.8		¶97vii0391
ISC	**VII**	**03 15 48 08**±3.7		**36.6N**±.26	**3.1W**±.10	**2**		**6**	**0-2**
NEIC	VII	03 15 48 07.6		36.35N	3.23W	33			¶97vii0426
MDD	VII	03 15 48 09.5		36.53N	3.16W	2	2.9		
NEIC	mbLg2.9(MDD), Poor solution.								
ISC	**VII**	**03 20 14 41**±1.6		**36.4N**±.12	**3.16W**±.074	**2**		**16**	**1-4**
NEIC	VII	03 20 14 42.2		36.29N	3.20W	33			¶97vii0447
MDD	VII	03 20 14 43.5		36.47N	3.16W	2	3.2		
NEIC	mbLg3.2(MDD), Poor solution.								
ISC	**VII**	**03 20 23 15**±1.0		**36.64N**±.051	**3.25W**±.044	**31**±7.7	**3.5b**	**81**	**0-81**
LIS	VII	03 20 23 13		36.38N	3.18W		4.1L		¶97vii0448
MDD	VII	03 20 23 13.6		36.47N	3.22W	1	4.1		
LDG	VII	03 20 23 14.3		36.8N	4.8W		3.8L		
NEIC	VII	03 20 23 15.3		36.63N	3.29W	33	4.5b		
EIDC	VII	03 20 23 16.4		36.6N	3.4W	25	3.2b,4.0L		
STR	VII	03 20 23 56.7		39.34N	1.55W	10	3.8L		
MDD	Felt I=III−IV MSK at south Adra								
NEIC	mbLg4.1(MDD)								
ISC	**VII**	**04 05 16 26**±3.2		**35.5N**±.25	**4.4W**±.11	**10**		**21**	**1-5**
MDD	VII	04 05 16 26.9		35.37N	4.20W		3.3		¶97vii0507
NEIC	VII	04 05 16 30.4		35.86N	4.48W	10			
NEIC	mbLg3.1(MDD), Single network solution.								
ISC	**VII**	**04 05 29 27.1**±.73		**35.21N**±.061	**4.49W**±.051	**33**	3.2b	**43**	**1-77**
NEIC	VII	04 05 29 26.4		35.17N	4.51W	33			¶97vii0508
MDD	VII	04 05 29 28.8		35.28N	4.37W		3.6		
EIDC	VII	04 05 29 36.8		36.0N	3.6W	0	4.0L,3.4b		
NEIC	mbLg3.5(MDD), Poor solution.								
ISC	**VII**	**04 20 24 39**±3.1		**36.6N**±.23	**3.09W**±.083	**4**		**9**	**0-2**
NEIC	VII	04 20 24 38.6		36.54N	3.11W	10			¶97vii0616
MDD	VII	04 20 24 40.2		36.63N	3.06W	4	2.6		
NEIC	mbLg2.5(MDD), Poor solution.								
ISC	**VII**	**05 14 56 47**±1.4		**36.5N**±.12	**3.16W**±.074	**10**		**15**	**0-4**
NEIC	VII	05 14 56 47.2		36.54N	3.16W	10			¶97vii0744
MDD	VII	05 14 56 47.6		36.50N	3.15W	2	3.0		
NEIC	mbLg3.0(MDD), Single network solution.								
MDD	**VII**	**07 23 02 15.8**		**36.49N**	**3.18W**	**2**	**2.6**		**¶97vii1104**
ISC	**VII**	**08 03 20 40**±14		**36.1N**±.64	**3.3W**±.19	**14**±64		**7**	**1-3**
MDD	VII	08 03 20 43.2		36.34N	3.20W	5	2.8		**¶97vii1134**
ISC	**VII**	**08 21 01 38.2**±.87		**36.71N**±.050	**5.78W**±.083	**0**		**9**	**0-1**
MDD	VII	08 21 01 39.5		36.69N	5.78W		2.3		**¶97vii1233**
ISC	**VII**	**09 06 26 44**±3.3		**36.8N**±.27	**4.5W**±.21	**50**		**7**	**0-2**
NEIC	VII	09 06 26 43.6		36.78N	4.50W	50			**¶97vii1291**
MDD	VII	09 06 26 44.4		36.81N	4.50W	52	2.8		
NEIC	Single network solution.								
ISC	**VII**	**09 07 15 42**±3.2		**36.7N**±.27	**3.0W**±.11	**10**		**4**	**0-1**
NEIC	VII	09 07 15 43.0		36.72N	3.00W	10			**¶97vii1292**
MDD	VII	09 07 15 43.7		36.72N	2.98W		2.7		
ISC	Poorly determined								
NEIC	mbLg2.6(MDD), Poor solution.								
ISC	**VII**	**14 09 12 22**±1.4		**36.82N**±.092	**2.95W**±.060	**2**±9.3		**18**	**0-4**
NEIC	VII	14 09 12 22.8		36.80N	2.96W	10			**¶97vii2091**
MDD	VII	14 09 12 23.7		36.80N	2.96W	1	3.2		
NEIC	mbLg3.2(MDD), Single network solution.								
MDD	Felt I=II−III MSK at Adra								
ISC	**VII**	**18 13 32 07**±2.5		**36.7N**±.17	**3.9W**±.11	**6**±13		**7**	**0-2**
MDD	VII	18 13 32 08.0		36.69N	3.84W	1	2.5		**¶97vii2750**
ISC	**VII**	**19 16 18 55**±1.7		**37.0N**±.14	**3.9W**±.14	**10**		**4**	**0-0**
NEIC	VII	19 16 18 54.5		36.97N	3.86W	10			**¶97vii2914**
MDD	VII	19 16 18 55.1		37.01N	3.83W	13	1.8		
ISC	Poorly determined								
NEIC	mbLg1.7(MDD), Poor solution.								
ISC	**VII**	**23 00 09 35**±3.4		**36.5N**±.19	**3.21W**±.098	**8**±16		**11**	**0-2**
NEIC	VII	23 00 09 34.8		36.48N	3.22W	10			**¶97vii3456**
MDD	VII	23 00 09 35.5		36.47N	3.21W	1	3.1		
NEIC	mbLg3.0(MDD), Single network solution.								
ISC	**VII**	**23 13 17 07.7**±.54		**35.80N**±.046	**3.73W**±.054	**10**		**25**	**1-4**
NEIC	VII	23 13 17 07.4		35.79N	3.76W	10			**¶97vii3535**
LIS	VII	23 13 17 08		35.82N	3.70W		3.3L		
MDD	VII	23 13 17 08.4		35.82N	3.70W	2	3.1		
RBA	VII	23 13 17 13.8		35.61N	3.90W	30	3.1D		
NEIC	mbLg3.1(MDD), Single network solution.								
ISC	**VII**	**24 04 41 37**±5.7		**36.6N**±.52	**3.2W**±.16	**21**		**4**	**0-1**
MDD	VII	24 04 41 38.3		36.68N	3.20W	21	2.5		**¶97vii3616**
ISC	Poorly determined								
ISC	**VII**	**25 20 24 09**±1.4		**37.0N**±.16	**2.84W**±.072	**5**		**8**	**1-2**
NEIC	VII	25 20 24 08.9		36.95N	2.84W	5			**¶97vii3874**
MDD	VII	25 20 24 10.1		36.99N	2.84W	3	2.7		
NEIC	mbLg2.6(MDD), Single network solution.								
MDD	**VII**	**25 21 50 59.6**		**36.86N**	**2.54W**	**4**	**2.5**		**¶97vii3884**
NEIC	VII	25 21 50 57.3		36.73N	2.59W	5			
NEIC	mbLg2.5(MDD), Poor solution.								
ISC	**VII**	**26 00 32 07**±6.7		**36.9N**±.44	**4.6W**±.19	**5**		**4**	**0-1**
NEIC	VII	26 00 32 07.2		36.93N	4.64W	5			**¶97vii3892**
MDD	VII	26 00 32 07.8		36.88N	4.61W	8	2.5		
ISC	Poorly determined								
NEIC	mbLg2.4(MDD), Poor solution.								
MDD	**VII**	**28 08 51 31.5**		**36.60N**	**5.98W**		**2.3**		**¶97vii4239**
ISC	**VII**	**28 18 48 27**±7.3		**36.0N**±.34	**7.7W**±.97	**0**		**5**	**1-2**
LIS	VII	28 18 48 39		36.53N	8.02W		1.5L		**¶97vii4315**
ISC	**VII**	**28 23 53 59.0**±.61		**36.10N**±.055	**4.52W**±.052	**65**		**37**	**1-6**
LIS	VII	28 23 54 00		36.23N	4.57W		2.9L		**¶97vii4347**
MDD	VII	28 23 54 00.2		36.09N	4.48W	65	3.4		
NEIC	VII	28 23 54 01.0		36.09N	4.29W	33			
NEIC	mbLg3.3(MDD), Single network solution.								
ISC	**VII**	**29 21 30 19**±1.5		**36.42N**±.066	**3.18W**±.081	**3**±12		**15**	**1-4**
NEIC	VII	29 21 30 19.2		36.43N	3.18W	10			**¶97vii4486**
MDD	VII	29 21 30 19.9		36.43N	3.17W	3	3.1		
NEIC	mbLg3.1(MDD), Single network solution.								
ISC	**VII**	**31 01 29 59**±5.3		**36.5N**±.35	**3.2W**±.11	**8**±18		**9**	**0-2**
NEIC	VII	31 01 29 59.4		36.48N	3.16W	10			**¶97vii4658**
MDD	VII	31 01 30 00.8		36.52N	3.16W	3	2.9		
NEIC	mbLg2.8(MDD), Single network solution.								
MDD	**VIII**	**02 11 12 20.8**		**36.38N**	**5.56W**	**11**	**2.8**		**¶97viii0203**
ISC	**VIII**	**03 06 17 09**±1.4		**36.53N**±.087	**5.5W**±.17	**8**		**7**	**0-1**
MDD	VIII	03 06 17 08.9		36.45N	5.53W	8	2.7		**¶97viii0315**
ISC	**VIII**	**03 12 39 35**±3.5		**36.8N**±.18	**3.4W**±.20	**6**±11		**8**	**0-2**
MDD	VIII	03 12 39 35.4		36.79N	3.33W	3	3.0		**¶97viii0362**
NEIC	VIII	03 12 39 35.4		36.82N	3.39W	10			
NEIC	mbLg2.9(MDD), Single network solution.								
ISC	**VIII**	**03 14 53 40**±12		**35.8N**±.75	**7.8W**±.62	**0**		**7**	**1-2**
LIS	VIII	03 14 53 50		36.25N	7.88W		1.5L		**¶97viii0374**
ISC	**VIII**	**04 04 45 34**±1.2		**36.34N**±.086	**3.5W**±.23	**5**		**7**	**0-2**
NEIC	VIII	04 04 45 32.9		36.41N	3.25W	5			**¶97viii0459**
MDD	VIII	04 04 45 33.5		36.46N	3.07W	2	2.9		
NEIC	mbLg2.8(MDD), Single network solution.								
ISC	**VIII**	**04 14 00 34**±9.2		**36.6N**±.51	**2.9W**±.35	**6**±28		**6**	**1-2**
NEIC	VIII	04 14 00 36.2		36.64N	3.03W	10			**¶97viii0511**
MDD	VIII	04 14 00 37.2		36.65N	3.03W	6	3.1		
NEIC	mbLg3.0(MDD), Poor solution.								
ISC	**VIII**	**04 16 23 02**±6.6		**36.5N**±.50	**7.3W**±.24	**31**		**10**	**1-1**
MDD	VIII	04 16 23 04.9		36.72N	7.43W	31	3.2		**¶97viii0520**
LIS	VIII	04 16 23 06		36.67N	7.62W		1.8L		
LIS	**VIII**	**07 09 42 37**		**36.40N**	**7.38W**		**1.7L**		**¶97viii0919**
ISC	**VIII**	**07 19 17 25.0**±.90		**36.45N**±.043	**3.17W**±.046	**16**±9.6		**48**	**1-12**
NEIC	VIII	07 19 17 24.2		36.43N	3.17W	10			**¶97viii0990**
MDD	VIII	07 19 17 25.7		36.43N	3.23W	2	3.8		
LIS	VIII	07 19 17 26		36.43N	3.17W		3.3L		
LDG	VIII	07 19 17 28.0		36.6N	3.4W		3.5L		
NEIC	mbLg3.9(MDD)								
MDD	Felt I=II−III MSK at southwest Adra								
MDD	**VIII**	**08 09 34 34.0**		**36.32N**	**5.81W**	**9**	**2.1**		**¶97viii1084**
ISC	**VIII**	**08 12 11 24**±4.2		**36.6N**±.31	**7.5W**±.16	**29**		**10**	**1-1**
LIS	VIII	08 12 11 25		36.62N	7.50W		2.1L		**¶97viii1116**
MDD	VIII	08 12 11 25.3		36.63N	7.51W	29	3.0		
ISC	**VIII**	**09 02 39 49**±4.2		**36.2N**±.35	**4.48W**±.096	**18**		**10**	**1-3**
MDD	VIII	09 02 39 51.7		36.33N	4.47W	18	2.7		**¶97viii1192**
ISC	**VIII**	**09 06 38 23**±1.1		**36.96N**±.092	**4.53W**±.098	**12**±15		**7**	**0-1**
NEIC	VIII	09 06 38 22.8		36.97N	4.53W	10			**¶97viii1213**
MDD	VIII	09 06 38 23.4		36.97N	4.53W	4	2.3		
NEIC	mbLg2.2(MDD).								
LIS	**VIII**	**10 06 05 53**		**36.65N**	**7.33W**		**1.7L**		**¶97viii1356**
ISC	**VIII**	**12 07 11 42**±8.3		**36.5N**±.54	**3.2W**±.21	**6**		**5**	**0-2**
MDD	VIII	12 07 11 45.8		36.65N	3.22W	6	2.6		**¶97viii1695**
LIS	**VIII**	**12 15 14 44**		**36.52N**	**6.37W**		**2.3L**		**¶97viii1771**
ISC	**VIII**	**12 16 13 56**±5.5		**36.3N**±.37	**7.2W**±.23	**9**		**8**	**1-2**
LIS	VIII	12 16 14 00		36.55N	7.32W		1.8L		**¶97viii1778**
MDD	VIII	12 16 14 01.0		36.60N	7.28W	9	3.6		

ISC	**VIII 13 08 29 05**±1.2	**35.8N**±.11	**3.6W**±.16	**10**		**6**	**1-2**	
NEIC	VIII 13 08 29 05.0	35.86N	3.63W	10		¶97viii1878		
MDD	VIII 13 08 29 05.9	35.85N	3.62W	9	2.8			
NEIC	mbLg3.1(MDD), Single network solution.							
ISC	**VIII 15 04 06 37.5**±.90	**37.0N**±.16	**5.2W**±.16	**17**		**6**	**0-2**	
MDD	VIII 15 04 06 35.9	37.15N	5.50W	17	2.5	¶97viii2160		
ISC	**VIII 15 21 18 53**±5.1	**36.3N**±.31	**7.1W**±.32	**33**		**15**	**1-6**	
MDD	VIII 15 21 18 49.8	36.14N	7.22W		2.9	¶97viii2275		
NEIC	VIII 15 21 18 53.1	36.33N	7.06W	33				
NEIC	mbLg3.4(MDD), Single network solution.							
ISC	**VIII 18 22 30 08**±2.6	**36.9N**±.17	**3.2W**±.14	**10**		**7**	**0-2**	
NEIC	VIII 18 22 30 07.8	36.86N	3.14W	10		¶97viii2721		
MDD	VIII 18 22 30 09.0	36.88N	3.14W	3	2.7			
NEIC	mbLg2.9(MDD), Single network solution.							
ISC	**VIII 19 02 22 49**±5.5	**36.6N**±.35	**3.5W**±.27	**21**±22		**7**	**0-2**	
MDD	VIII 19 02 22 51.2	36.69N	3.56W	14	2.4	¶97viii2746		
ISC	**VIII 20 02 44 00.2**±.38	**36.46N**±.038	**4.69W**±.029	**68**	**3.7b**	**123**	**0-78**	
EIDC	VIII 20 02 43 59.4	36.4N	4.7W	69	3.7b,2.9s	¶97viii2897		
NEIC	VIII 20 02 43 59.6	36.38N	4.74W	97	4.1b			
MDD	VIII 20 02 44 02.2	36.40N	4.75W	68	4.2			
LIS	VIII 20 02 44 03	36.57N	4.82W		4.0L			
LDG	VIII 20 02 44 04.9	36.8N	4.6W		4.3L			
STR	VIII 20 02 44 13.7	37.23N	3.70W	2	5.1L			
ISC	**VIII 23 02 26 42**±2.1	**37.0N**±.13	**4.2W**±.13	**0**		**6**	**0-1**	
MDD	VIII 23 02 26 43.3	37.02N	4.21W		2.4	¶97viii3327		
ISC	**VIII 24 15 21 00**±6.0	**36.8N**±.37	**3.9W**±.23	**2**		**4**	**0-1**	
MDD	VIII 24 15 20 59.5	36.65N	3.94W	2	2.4	¶97viii3557		
ISC	Poorly determined							
LIS	**VIII 25 01 40 05**	**36.77N**	**7.05W**		**1.9L**	¶97viii3620		
ISC	**VIII 25 04 00 23**±1.8	**37.0N**±.12	**5.3W**±.28	**19**±31		**5**	**0-1**	
MDD	VIII 25 04 00 23.7	36.98N	5.25W	20	2.2	¶97viii3641		
ISC	Poorly determined							
LIS	**VIII 26 07 05 53**	**36.68N**	**7.75W**		**1.7L**	¶97viii3800		
MDD	**VIII 26 19 42 20.2**	**36.65N**	**6.25W**	**7**	**1.9**	¶97viii3893		
ISC	**VIII 27 22 29 46.3**±.70	**36.96N**±.080	**5.28W**±.090	**10**		**9**	**0-2**	
NEIC	VIII 27 22 29 45.4	36.96N	5.33W	10		¶97viii4048		
MDD	VIII 27 22 29 47.1	36.95N	5.33W	11	2.8			
NEIC	mbLg2.5(MDD), Single network solution.							
ISC	**VIII 27 22 52 57.2**±.80	**36.94N**±.090	**5.26W**±.098	**18**±12		**9**	**0-2**	
NEIC	VIII 27 22 52 56.4	36.93N	5.28W	10		¶97viii4052		
MDD	VIII 27 22 52 57.8	36.92N	5.26W	13	2.7			
NEIC	mbLg2.9(MDD), Poor solution.							
ISC	**VIII 27 22 53 16.0**±.94	**37.0N**±.12	**5.4W**±.11	**10**±14		**7**	**0-2**	
MDD	VIII 27 22 53 17.0	36.98N	5.32W	9	2.6	¶97viii4053		
ISC	**VIII 27 22 53 50.9**±.82	**36.96N**±.090	**5.3W**±.11	**14**±8.2		**8**	**0-2**	
NEIC	VIII 27 22 53 50.9	36.95N	5.28W	10		¶97viii4054		
MDD	VIII 27 22 53 51.9	36.98N	5.34W	9	2.8			
NEIC	mbLg2.9(MDD), Single network solution.							
ISC	**VIII 28 04 28 16**±7.5	**37.0N**±.45	**4.1W**±.62	**10**		**4**	**0-1**	
NEIC	VIII 28 04 28 15.9	36.96N	4.13W	10		¶97viii4083		
MDD	VIII 28 04 28 16.9	36.98N	4.08W	8	2.3			
ISC	Poorly determined							
NEIC	mbLg2.3(MDD), Poor solution.							
ISC	**IX 07 14 52 07.3**±.89	**36.77N**±.066	**5.77W**±.082	**11**		**7**	**0-1**	
MDD	IX 07 14 52 08.4	36.73N	5.70W	11	2.4	¶97ix1088		
ISC	**IX 07 16 33 50**±15	**36.3N**±.74	**7.8W**±.63	**0**		**5**	**1-1**	
LIS	IX 07 16 33 57	36.57N	7.88W		1.8L	¶97ix1102		
LIS	**IX 11 01 42 45**	**35.20N**	**5.92W**		**1.9L**	¶97ix1610		
LIS	**IX 11 17 59 03**	**36.45N**	**7.92W**		**1.6L**	¶97ix1716		
ISC	**IX 12 07 52 06**±8.3	**36.2N**±.58	**3.2W**±.16	**10**		**7**	**1-3**	
MDD	IX 12 07 52 10.0	36.43N	3.19W	10	2.9	¶97ix1783		
ISC	**IX 13 06 20 03**±1.4	**36.45N**±.059	**3.25W**±.074	**1**±10		**22**	**0-4**	
NEIC	IX 13 06 20 02.4	36.45N	3.19W	5		¶97ix1935		
MDD	IX 13 06 20 05.0	36.43N	3.31W	3	3.3			
NEIC	mbLg3.4(MDD), Single network solution.							
ISC	**IX 13 12 46 50**±6.0	**36.5N**±.42	**3.1W**±.11	**2**±13		**8**	**0-2**	
NEIC	IX 13 12 46 49.5	36.50N	3.14W	10		¶97ix1970		
MDD	IX 13 12 46 51.9	36.57N	3.12W	2	2.8			
NEIC	mbLg2.7(MDD), Poor solution.							
ISC	**IX 13 20 55 03**±2.1	**36.8N**±.21	**2.80W**±.090	**10**		**7**	**1-2**	
NEIC	IX 13 20 55 01.9	36.73N	2.80W	10		¶97ix2035		
MDD	IX 13 20 55 04.3	36.85N	2.81W	3	2.5			
NEIC	mbLg2.4(MDD), Less reliable solution.							
ISC	**IX 20 16 15 11**±1.0	**36.9N**±.11	**4.60W**±.079	**8**±13		**9**	**0-2**	
MDD	IX 20 16 15 12.4	36.88N	4.58W	9	2.9	¶97ix2962		
ISC	**IX 20 16 15 37**±1.2	**36.8N**±.12	**4.64W**±.081	**17**±17		**10**	**0-2**	
MDD	IX 20 16 15 37.8	36.88N	4.63W	8	2.7	¶97ix2963		
ISC	**IX 20 16 16 25**±1.7	**36.8N**±.15	**4.5W**±.13	**25**		**6**	**0-1**	
MDD	IX 20 16 16 24.9	36.70N	4.45W	25	2.8	¶97ix2964		
ISC	**IX 20 22 48 15**±1.4	**36.6N**±.14	**7.08W**±.062	**10**		**15**	**1-4**	
NEIC	IX 20 22 48 17.6	36.86N	6.63W	10		¶97ix3008		
LIS	IX 20 22 48 18.8	36.68N	7.12W		2.1L			
MDD	IX 20 22 48 18.9	36.68N	7.13W	41	3.2			
NEIC	mbLg2.9(MDD), Poor solution.							
ISC	**IX 23 07 12 43**±14	**36.8N**±.99	**7.2W**±.74	**40**		**7**	**1-1**	
MDD	IX 23 07 12 45.5	36.91N	7.31W	40	2.6	¶97ix3387		
LIS	IX 23 07 12 46	36.90N	7.32W		1.8L			
ISC	**IX 24 01 07 21**±8.1	**36.1N**±.40	**7.7W**±.46	**0**		**6**	**1-1**	
LIS	IX 24 01 07 30	36.55N	7.70W		0.9L	¶97ix3505		
ISC	**IX 25 18 43 39.8**±.63	**36.50N**±.043	**5.35W**±.040	**9**±5.3		**39**	**0-6**	
NEIC	IX 25 18 43 39.4	36.45N	5.37W	10		¶97ix3772		
MDD	IX 25 18 43 40.4	36.43N	5.34W	2	3.6			
NEIC	mbLg3.5(MDD), Single network solution.							
MDD	**IX 25 21 05 08.1**	**36.67N**	**7.29W**	**25**	**2.7**	¶97ix3793		
LIS	IX 25 21 05 09.8	36.55N	7.65W		2.0L			
ISC	**IX 27 10 09 51.9**±.77	**36.98N**±.064	**3.72W**±.060	**6**±8.6		**12**	**0-2**	
NEIC	IX 27 10 09 51.8	36.98N	3.72W	10		¶97ix4324		
MDD	IX 27 10 09 52.6	36.99N	3.72W	5	2.9			
NEIC	mbLg2.8(MDD), Single network solution.							
MDD	**IX 27 21 41 10.7**	**36.55N**	**5.65W**	**7**	**2.6**	¶97ix4461		
ISC	**IX 30 01 51 35**±3.5	**37.0N**±.21	**4.1W**±.22	**10**±20		**5**	**0-1**	
MDD	IX 30 01 51 35.1	36.95N	4.09W	3	2.2	¶97ix5095		
ISC	Poorly determined							
ISC	**X 03 12 56 14**±3.1	**36.5N**±.21	**3.12W**±.089	**2**±13		**9**	**0-2**	
MDD	X 03 12 56 12.8	36.33N	3.18W	1	3.0	¶97x0466		
NEIC	X 03 12 56 14.1	36.50N	3.14W	10				
NEIC	mbLg2.9(MDD), Single network solution.							
ISC	**X 04 20 36 45**±9.3	**36.4N**±.76	**3.2W**±.22	**9**		**4**	**1-1**	
MDD	X 04 20 36 46.8	36.50N	3.20W	9	2.4	¶97x0725		
ISC	Poorly determined							
ISC	**X 06 05 19 20**±1.1	**36.06N**±.061	**2.4W**±.17	**10**		**7**	**1-2**	
NEIC	X 06 05 19 20.1	36.03N	2.40W	10		¶97x0997		
MDD	X 06 05 19 21.1	36.07N	2.46W	2	2.7			
NEIC	mbLg3.2(MDD), Single network solution.							
ISC	**X 07 02 45 51**±4.6	**36.5N**±.36	**3.2W**±.11	**1**		**5**	**0-1**	
MDD	X 07 02 45 52.4	36.55N	3.17W	1	2.6	¶97x1162		
ISC	**X 08 03 46 39.4**±.92	**35.98N**±.067	**3.1W**±.11	**10**		**12**	**1-3**	
NEIC	X 08 03 46 39.5	35.97N	3.14W	10		¶97x1350		
MDD	X 08 03 46 40.0	35.98N	3.13W	1	3.1			
NEIC	mbLg3.0(MDD), Single network solution.							
ISC	**X 09 04 07 56**±13	**36N**±1.0	**3.2W**±.45	**21**		**4**	**1-1**	
MDD	X 09 04 07 58.6	36.40N	3.23W	21	2.5	¶97x1522		
ISC	Poorly determined							
ISC	**X 09 20 28 44**±5.7	**36.6N**±.52	**3.1W**±.15	**16**		**4**	**0-1**	
MDD	X 09 20 28 45.0	36.58N	3.14W	16	2.6	¶97x1637		
ISC	Poorly determined							
ISC	**X 11 12 35 59**±3.1	**36.3N**±.17	**3.9W**±.12	**7**±12		**13**	**1-2**	
NEIC	X 11 12 35 59.5	36.35N	3.90W	10		¶97x1894		
MDD	X 11 12 36 00.6	36.36N	3.95W	5	2.7			
NEIC	mbLg2.6(MDD), Single network solution.							
ISC	**X 12 05 31 21.7**±.87	**36.56N**±.089	**7.19W**±.054	**39**		**32**	**1-5**	
MDD	X 12 05 31 22.1	36.47N	7.25W	39	3.0	¶97x1995		
LIS	X 12 05 31 24	36.53N	7.17W		2.5L			
NEIC	X 12 05 31 25.1	36.74N	6.87W	33				
NEIC	mbLg2.8(MDD), Single network solution.							
ISC	**X 13 01 01 29**±12	**36.4N**±.86	**3.2W**±.30	**8**		**4**	**1-1**	
MDD	X 13 01 01 31.5	36.47N	3.22W	8	2.6	¶97x2139		
ISC	Poorly determined							
ISC	**X 13 17 09 01**±7.4	**36.5N**±.54	**3.2W**±.15	**0**		**4**	**0-1**	
MDD	X 13 17 09 02.1	36.53N	3.18W		2.8	¶97x2253		
ISC	Poorly determined							
ISC	**X 13 21 20 20.4**±.99	**35.97N**±.074	**3.2W**±.13	**10**		**9**	**1-2**	
NEIC	X 13 21 20 20.4	35.97N	3.15W	10		¶97x2287		
MDD	X 13 21 20 21.1	35.97N	3.14W	5	2.8			
NEIC	mbLg2.6(MDD), Single network solution.							
ISC	**X 13 21 50 16**±1.7	**36.02N**±.047	**3.02W**±.057	**10**±16		**53**	**1-12**	
NEIC	X 13 21 50 16.5	35.97N	3.15W	10		¶97x2292		
MDD	X 13 21 50 18.0	36.01N	3.02W	9	3.8			
LIS	X 13 21 50 18	35.97N	3.20W		3.3L			
LDG	X 13 21 50 22.2	36.1N	3.2W		3.7L			
RBA	X 13 21 50 29.0	35.28N	3.01W	30	3.7D			
NEIC	mbLg4.1(MDD)							
NEIC	Felt I=III MSK at Melilla and II MM on Isla de Alboran, Spain.							
MDD	**X 13 23 51 52.1**	**35.89N**	**3.42W**	**2**	**2.6**	¶97x2309		
ISC	**X 14 00 20 00**±1.3	**35.92N**±.097	**3.3W**±.22	**10**		**7**	**1-1**	
NEIC	X 14 00 20 00.3	35.93N	3.29W	10		¶97x2311		
MDD	X 14 00 20 01.0	35.92N	3.36W	17	2.7			
NEIC	mbLg3.2(MDD), Single network solution.							
ISC	**X 14 03 28 54**±1.1	**35.96N**±.076	**3.2W**±.16	**10**		**8**	**1-2**	
NEIC	X 14 03 28 54.0	35.95N	3.19W	10		¶97x2329		
MDD	X 14 03 28 54.5	35.99N	3.16W	2	2.9			
NEIC	mbLg3.3(MDD), Single network solution.							
MDD	**X 14 07 27 36.3**	**36.78N**	**4.10W**	**14**	**2.6**	¶97x2355		
ISC	**X 15 04 04 09**±7.3	**36.4N**±.39	**5.3W**±.28	**5**		**5**	**0-1**	
MDD	X 15 04 04 09.2	36.34N	5.35W	5	2.7	¶97x2559		
ISC	**X 16 01 21 39**±1.2	**35.96N**±.089	**3.2W**±.18	**10**		**5**	**1-1**	
NEIC	X 16 01 21 39.0	35.97N	3.19W	10		¶97x2761		
MDD	X 16 01 21 39.6	35.97N	3.18W	6	2.6			
NEIC	mbLg3.2(MDD), Single network solution.							
ISC	**X 21 20 12 46**±1.9	**36.6N**±.16	**3.16W**±.092	**10**		**7**	**0-2**	
MDD	X 21 20 12 45.1	36.46N	3.14W		2.7	¶97x3697		
NEIC	X 21 20 12 45.8	36.57N	3.17W	10				
NEIC	mbLg2.7(MDD), Single network solution.							
ISC	**X 23 21 51 13**±1.1	**35.99N**±.080	**3.2W**±.18	**10**		**7**	**1-2**	
NEIC	X 23 21 51 13.4	36.02N	3.11W	10		¶97x4072		
MDD	X 23 21 51 15.0	35.91N	3.31W	25	2.7			
NEIC	mbLg2.6(MDD), Single network solution.							
ISC	**X 25 10 22 02**±1.4	**36.3N**±.14	**4.59W**±.062	**80**±12		**31**	**0-10**	
MDD	X 25 10 22 04.0	36.32N	4.58W	28	3.4	¶97x4312		
NEIC	X 25 10 22 04.4	36.65N	4.69W	50				
LIS	X 25 10 22 05	36.60N	4.67W		2.6L			
LDG	X 25 10 22 08.3	36.9N	4.8W		3.3L			
ISC	**X 31 21 58 14**±1.2	**35.92N**±.095	**3.2W**±.24	**10**		**5**	**1-1**	
NEIC	X 31 21 58 13.9	35.94N	3.17W	10		¶97x5231		
MDD	X 31 21 58 15.1	35.81N	3.23W	48	2.8			
NEIC	mbLg2.8(MDD), Single network solution.							
ISC	**XI 01 11 13 17**±2.4	**36.6N**±.24	**4.5W**±.12	**78**		**11**	**1-3**	
MDD	XI 01 11 13 18.5	36.6N	4.4W	78	2.3b	¶97xi0071		
ISC	**XI 10 03 44 53**±2.5	**36.5N**±.32	**4.9W**±.14	**11**±13		**7**	**0-2**	
MDD	XI 10 03 44 53.9	36.5N	5.0W	10	1.8b	¶97xi1551		
ISC	**XI 10 07 28 45.1**±.67	**36.03N**±.046	**2.86W**±.089	**15**		**14**	**1-4**	
MDD	XI 10 07 28 46.5	36.0N	2.9W	15	2.7b	¶97xi1575		
ISC	**XI 11 04 07 11.7**±.44	**36.76N**±.048	**5.00W**±.039	**11**		**25**	**0-4**	
MDD	XI 11 04 07 13.2	36.7N	5.0W	11	2.9b	¶97xi1729		
ISC	**XI 11 04 19 41**±3.8	**36.5N**±.27	**5.2W**±.13	**56**±52		**7**	**0-2**	
MDD	XI 11 04 19 42.2	36.7N	5.1W	23	1.8b	¶97xi1731		
ISC	**XI 11 05 16 37.9**±.42	**36.72N**±.045	**5.01W**±.036	**14**		**28**	**0-4**	
MDD	XI 11 05 16 39.3	36.7N	5.0W	14	2.9b	¶97xi1739		
ISC	**XI 12 08 56 13.0**±.47	**35.69N**±.043	**4.61W**±.045	**86**		**51**	**1-8**	
RBA	XI 12 08 56 14.6	35.69N	4.76W	30	3.3D	¶97xi1959		
MDD	XI 12 08 56 15.4	35.8N	4.6W	86	3.5b			
NEIC	XI 12 08 56 15.6	35.87N	4.46W	50				
LDG	XI 12 08 56 16.3	36.0N	4.8W		3.7L			
LIS	XI 12 08 56 18	35.83N	4.85W		3.5L			
NEIC	Less reliable solution.							
ISC	**XI 12 14 42 05**±7.6	**36.5N**±.76	**3.2W**±.24	**32**		**4**	**0-1**	
MDD	XI 12 14 42 06.4	36.6N	3.2W	32	2.4b	¶97xi1997		
ISC	Poorly determined							
ISC	**XI 12 17 58 57**±2.6	**37.0N**±.18	**4.0W**±.17	**0**		**4**	**0-0**	
MDD	XI 12 17 58 57.4	37.0N	4.1W	0	1.6b	¶97xi2018		
ISC	Poorly determined							
ISC	**XI 13 16 13 12.8**±.59	**36.99N**±.071	**5.17W**±.061	**16**		**12**	**0-2**	
MDD	XI 13 16 13 12.2	37.0N	5.2W	16	2.2b	¶97xi2163		
ISC	**XI 14 01 58 29**±1.8	**36.8N**±.16	**3.01W**±.082	**2**		**5**	**0-1**	
MDD	XI 14 01 58 30.1	36.8N	3.0W	2	1.7b	¶97xi2221		
ISC	**XI 15 16 51 21.0**±.77	**36.96N**±.061	**7.40W**±.067	**51**±14		**38**	**0-8**	
LIS	XI 15 16 51 20	36.70N	7.30W		2.8L	¶97xi2510		
MDD	XI 15 16 51 21.0	36.8N	7.5W	31	2.8b			
ISC	**XI 18 03 03 11**±2.6	**36.7N**±.18	**2.80W**±.094	**0**		**6**	**1-2**	
MDD	XI 18 03 03 11.4	36.6N	2.8W	0	2.1b	¶97xi2903		

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XI**	**18 18 28 49**±1.6	**36.5N**±.11	**3.15W**±.064	**3**		**15**	**0-3**
MDD	XI	18 18 28 50.8	36.5N	3.2W	3	2.8b		¶97xi3038
ISC	**XI**	**18 18 40 57.5**±.90	**36.50N**±.052	**3.19W**±.065	**1**±7.3		**21**	**0-4**
MDD	XI	18 18 40 59.2	36.5N	3.2W	3	2.8b		¶97xi3040
ISC	**XI**	**20 03 36 55.6**±.67	**35.97N**±.046	**3.00W**±.092	**0**		**17**	**1-4**
MDD	XI	20 03 36 57.5	36.0N	3.0W	0	2.7b		¶97xi3382
ISC	**XI**	**21 20 01 56.2**±.93	**36.92N**±.084	**4.20W**±.055	**88**±8.9		**57**	**0-12**
LDG	XI	21 20 01 56.7	37.0N	4.2W		3.1L		¶97xi3729
MDD	XI	21 20 01 58.7	36.9N	4.2W	62	2.8b		
ISC	**XI**	**22 02 57 49**±5.2	**36.5N**±.39	**3.2W**±.11	**0**		**6**	**0-1**
MDD	XI	22 02 57 50.2	36.5N	3.2W	0	1.9b		¶97xi3789
ISC	**XI**	**22 11 30 57**±1.8	**36.8N**±.11	**6.0W**±.13	**11**±17		**6**	**1-2**
MDD	XI	22 11 30 59.8	36.8N	5.9W	0	1.4b		¶97xi3863
ISC	**XI**	**22 12 53 01.5**±.78	**36.68N**±.097	**5.17W**±.081	**29**±9.2		**15**	**0-3**
MDD	XI	22 12 53 01.7	36.7N	5.1W	15	2.0b		¶97xi3879
MDD	**XI**	**23 05 08 04.2**	**36.9N**	**3.7W**	**2**	**0.8b**		**0-0**
								¶97xi4042
ISC	**XI**	**23 17 17 20**±1.3	**36.9N**±.12	**4.3W**±.13	**7**		**5**	**0-1**
MDD	XI	23 17 17 20.2	36.9N	4.4W	7	1.4b		¶97xi4160
ISC	**XI**	**24 06 48 57.3**±.99	**36.87N**±.071	**4.33W**±.080	**5**±12		**9**	**0-2**
MDD	XI	24 06 48 58.1	36.9N	4.4W	3	1.9b		¶97xi4274
ISC	**XI**	**25 19 50 36**±2.6	**36.6N**±.17	**3.12W**±.072	**0**		**10**	**0-3**
MDD	XI	25 19 50 35.1	36.5N	3.2W	0	2.4b		¶97xi4565
ISC	**XI**	**26 00 17 22**±2.8	**36.8N**±.17	**2.4W**±.12	**0**±19		**8**	**0-2**
MDD	XI	26 00 17 22.0	36.7N	2.3W	0	2.0b		¶97xi4602
ISC	**XI**	**27 04 18 48.9**±.70	**36.65N**±.045	**5.74W**±.067	**0**		**10**	**0-1**
MDD	XI	27 04 18 47.3	36.4N	5.9W	0	2.2b		¶97xi4791
ISC	**XII**	**01 21 37 47.3**±.93	**36.49N**±.057	**3.11W**±.078	**12**±11		**15**	**1-3**
MDD	XII	01 21 37 49.4	36.5N	3.2W	4	2.7b		¶97xii0151
ISC	**XII**	**02 19 13 11**±2.9	**36.5N**±.18	**3.16W**±.073	**9**±13		**13**	**0-4**
MDD	XII	02 19 13 12.2	36.5N	3.2W	7	2.6b		¶97xii0298
ISC	**XII**	**05 11 14 01**±3.7	**36.7N**±.24	**2.5W**±.14	**0**		**9**	**0-3**
MDD	XII	05 11 14 02.3	36.7N	2.4W	0	2.5b		¶97xii0830
ISC	**XII**	**05 15 08 43**±1.6	**36.2N**±.11	**4.52W**±.086	**109**±17		**25**	**1-5**
MDD	XII	05 15 08 45.9	36.2N	4.5W	86	2.9b		¶97xii0924
ISC	**XII**	**07 13 37 19**±2.3	**35.3N**±.12	**3.9W**±.12	**20**±27		**16**	**1-4**
MDD	XII	07 13 37 19.8	35.3N	3.8W	14	2.8b		¶97xii1708
ISC	**XII**	**07 21 30 40**±3.2	**36.6N**±.22	**3.13W**±.079	**0**		**8**	**0-2**
MDD	XII	07 21 30 39.7	36.4N	3.2W	0	1.8b		¶97xii1788
ISC	**XII**	**08 19 24 06**±2.1	**36.5N**±.16	**4.44W**±.082	**113**±18		**22**	**0-5**
MDD	XII	08 19 24 08.6	36.5N	4.4W	91	2.6b		¶97xii1997
ISC	**XII**	**09 00 19 52**±9.7	**36.9N**±.39	**4.4W**±.55	**0**		**4**	**0-1**
MDD	XII	09 00 19 53.7	36.9N	4.3W	0	1.3b		¶97xii2049
ISC		Poorly determined						
ISC	**XII**	**09 20 17 52.6**±.89	**36.93N**±.074	**5.04W**±.072	**24**±11		**16**	**1-4**
MDD	XII	09 20 17 53.3	36.9N	5.0W	15	2.3b		¶97xii2230
ISC	**XII**	**09 20 25 00.3**±.51	**36.96N**±.044	**4.95W**±.037	**9**±5.6	3.7b	**38**	**0-66**
LDG	XII	09 20 25 01.2	36.8N	5.1W		3.0L		¶97xii2231
MDD	XII	09 20 25 01.5	36.9N	4.9W	10	2.5b		
MDD	**XII**	**11 04 48 01.9**	**36.5N**	**3.2W**	**0**	**1.6b**		**0-1**
								¶97xii2493
ISC	**XII**	**12 22 18 53**±1.2	**36.85N**±.079	**2.98W**±.061	**4**		**17**	**0-4**
MDD	XII	12 22 18 54.8	36.9N	3.0W	4	2.6b		¶97xii2831
ISC	**XII**	**13 17 31 48.8**±.83	**36.53N**±.064	**5.45W**±.072	**6**±9.7		**14**	**0-3**
MDD	XII	13 17 31 49.2	36.5N	5.5W	7	2.0b		¶97xii2984
ISC	**XII**	**13 20 02 05**±1.5	**36.5N**±.10	**3.11W**±.067	**0**		**15**	**0-3**
MDD	XII	13 20 02 06.9	36.5N	3.2W	0	2.4b		¶97xii3009
ISC	**XII**	**13 20 37 08.3**±.84	**36.53N**±.049	**3.47W**±.053	**0**±6.5		**27**	**0-4**
MDD	XII	13 20 37 10.5	36.6N	3.5W	3	2.7b		¶97xii3016
NEIC		Felt I=III MSK in Motril, Felt SW Castell de Ferro (after EGUA)						
ISC	**XII**	**15 10 32 26**±3.5	**36.6N**±.25	**3.15W**±.080	**0**		**8**	**0-2**
MDD	XII	15 10 32 25.7	36.5N	3.2W	0	2.2b		¶97xii3268
ISC	**XII**	**15 15 36 40**±5.0	**36.5N**±.32	**3.11W**±.098	**0**		**6**	**1-1**
MDD	XII	15 15 36 41.3	36.5N	3.2W	0	2.0b		¶97xii3306
ISC	**XII**	**17 09 02 14**±3.4	**36.6N**±.25	**2.99W**±.092	**7**		**6**	**1-2**
MDD	XII	17 09 02 14.4	36.5N	3.0W	7	2.1b		¶97xii3581
ISC	**XII**	**17 23 09 05**±3.5	**36.5N**±.22	**3.12W**±.080	**6**±12		**14**	**0-3**
MDD	XII	17 23 09 06.3	36.5N	3.2W	5	2.6b		¶97xii3676
ISC	**XII**	**18 00 11 58.3**±.92	**36.52N**±.058	**3.08W**±.079	**14**		**13**	**1-3**
MDD	XII	18 00 12 00.3	36.5N	3.1W	14	2.5b		¶97xii3681
ISC	**XII**	**18 02 45 23**±4.6	**36.5N**±.29	**3.2W**±.10	**0**		**6**	**0-2**
MDD	XII	18 02 45 23.1	36.4N	3.2W	0	2.1b		¶97xii3701
MDD	**XII**	**18 03 26 48.0**	**36.4N**	**3.2W**	**0**	**1.9b**		**1-1**
								¶97xii3705
ISC	**XII**	**20 02 14 16**±2.5	**36.9N**±.18	**4.3W**±.11	**79**±18		**20**	**0-7**
MDD	XII	20 02 14 18.0	36.9N	4.3W	62	2.4b		¶97xii4072
ISC	**XII**	**20 21 10 58**±2.0	**36.7N**±.15	**2.86W**±.068	**0**		**9**	**1-2**
MDD	XII	20 21 10 58.5	36.6N	2.9W	0	2.0b		¶97xii4170
ISC	**XII**	**21 12 21 27**±4.6	**36.6N**±.38	**3.1W**±.10	**0**		**5**	**0-1**
MDD	XII	21 12 21 28.3	36.6N	3.2W	0	2.3b		¶97xii4251
ISC	**XII**	**22 07 52 53**±10	**36.2N**±.63	**3.2W**±.15	**0**		**5**	**1-1**
MDD	XII	22 07 52 58.6	36.5N	3.2W	0	1.9b		¶97xii4382
ISC	**XII**	**23 02 05 52**±4.4	**36.5N**±.30	**3.15W**±.090	**0**		**6**	**0-1**
MDD	XII	23 02 05 52.9	36.5N	3.2W	0	1.8b		¶97xii4519
ISC	**XII**	**24 01 13 44**±1.5	**36.8N**±.10	**2.94W**±.068	**0**		**10**	**0-3**
MDD	XII	24 01 13 44.7	36.7N	3.0W	0	2.2b		¶97xii4680
ISC	**XII**	**24 04 35 46.4**±.92	**36.49N**±.056	**3.16W**±.075	**0**		**15**	**0-3**
MDD	XII	24 04 35 48.4	36.5N	3.2W	0	2.4b		¶97xii4706
ISC	**XII**	**24 05 08 42.2**±.89	**36.47N**±.053	**3.18W**±.070	**8**		**14**	**0-3**
MDD	XII	24 05 08 44.3	36.5N	3.2W	8	2.3b		¶97xii4708
ISC	**XII**	**24 09 51 09**±1.6	**36.9N**±.11	**4.23W**±.094	**79**±16		**21**	**0-4**
MDD	XII	24 09 51 10.9	36.9N	4.3W	64	2.4b		¶97xii4737
ISC	**XII**	**25 04 46 25**±6.9	**36.4N**±.49	**3.2W**±.12	**0**		**5**	**1-1**
MDD	XII	25 04 46 27.2	36.5N	3.2W	0	1.5b		¶97xii4868
ISC	**XII**	**25 07 48 24**±1.4	**36.9N**±.12	**4.3W**±.14	**9**		**5**	**0-1**
MDD	XII	25 07 48 23.8	36.9N	4.4W	9	1.3b		¶97xii4890
ISC	**XII**	**25 10 15 56**±1.3	**36.89N**±.079	**4.4W**±.13	**7**		**5**	**0-1**
MDD	XII	25 10 15 55.9	36.9N	4.4W	7	1.6b		¶97xii4907
ISC	**XII**	**25 17 36 56**±3.8	**36.4N**±.27	**4.6W**±.15	**110**±30		**17**	**1-5**
MDD	XII	25 17 36 58.1	36.4N	4.6W	102	2.1b		¶97xii4965
ISC	**XII**	**25 19 27 31**±2.9	**36.6N**±.19	**3.13W**±.074	**0**		**9**	**0-2**
MDD	XII	25 19 27 31.7	36.5N	3.2W	0	1.9b		¶97xii4979
ISC	**XII**	**27 02 27 30.9**±.61	**36.76N**±.044	**7.44W**±.058	**70**±12		**52**	**0-11**
MDD	XII	27 02 27 32.2	36.7N	7.4W	24	3.0b		¶97xii5231
LIS	XII	27 02 27 33	36.77N	7.42W		2.9L		
RBA	XII	27 02 27 35.1	36.59N	7.27W	30	3.0D		
ISC	**XII**	**28 20 39 48**±1.6	**36.9N**±.11	**4.1W**±.10	**55**±19		**16**	**0-3**
MDD	XII	28 20 39 48.5	36.8N	4.1W	51	2.2b		¶97xii5495
ISC	**XII**	**31 03 43 24**±3.7	**36.7N**±.23	**2.5W**±.14	**0**		**6**	**0-2**
MDD	XII	31 03 43 23.5	36.5N	2.5W	0	2.0b		¶97xii5832

(386) Balearic Islands.

ISC	**IX**	**02 13 31 14.0**±.82	**40.32N**±.072	**1.08E**±.089	**11**		**11**	**1-4**
NEIC	IX	02 13 31 13.7	40.37N	1.05E	10			¶97ix0282
MDD	IX	02 13 31 15.8	40.29N	1.11E	11	3.0		
NEIC		mbLg3.1(MDD), Single network solution.						

(387) Western Mediterranean Sea.

ISC	**VII**	**07 07 44 11**±2.7	**37.2N**±.21	**6.7E**±.19	**10**	**3.8b**	**15**	**6-52**
EIDC	VII	07 07 44 02.8	36.3N	7.3E	0	3.8b,4.2L		¶97vii1010
LDG	VII	07 07 44 05.3	36.5N	6.9E		3.7L		
NEIC	VII	07 07 44 09.3	37.13N	6.78E	10			
NEIC		Less reliable solution.						
ISC	**VII**	**07 09 09 07**±6.9	**36.5N**±.32	**1.9W**±.53	**3**		**4**	**1-2**
MDD	VII	07 09 09 12.4	36.67N	2.18W	3	2.9		¶97vii1019
ISC		Poorly determined						
ISC	**VII**	**22 11 00 18**±1.4	**42.9N**±.15	**4.76E**±.086	**5**		**12**	**1-7**
NEIC	VII	22 11 00 18.7	43.03N	4.72E	5			¶97vii3364
LDG	VII	22 11 00 20.0	42.9N	4.8E		2.7L		
NEIC		Single network solution.						
LDG	**VIII**	**12 18 51 33.3**	**42.7N**	**7.1E**		**1.9L**		**¶97viii1791**

(389) Tyrrhenian Sea.

ROM	**VIII**	**12 00 07 46.2**	**39.3N**	**14.1E**	**10**	**2.6D**		**¶97viii1650**
ROM	**IX**	**02 06 10 44.4**	**40.5N**	**13.7E**	**6**	**2.6D**		**¶97ix0230**
ROM	**XII**	**11 18 52 55.1**	**40.7N**	**13.9E**	**5**	**2.6D**		**¶97xii2625**

(390) Southern Italy.

ROM	**VII**	**01 02 44 56.9**	**41.4N**	**14.7E**	**14**	**2.0D**		**¶97vii0017**
ROM	**VII**	**01 10 21 22.3**	**41.4N**	**14.5E**	**10**	**2.4D**		**¶97vii0067**
ROM	**VII**	**02 17 25 09.6**	**38.5N**	**16.0E**	**10**	**2.3D**		**¶97vii0270**
ROM	**VII**	**03 21 54 10.9**	**41.4N**	**14.7E**	**10**	**2.1D**		**¶97vii0458**
ROM	**VII**	**05 00 08 19.4**	**41.4N**	**14.6E**	**9**	**2.7D**		**¶97vii0644**
ISC	**VII**	**08 08 13 44.1**±.45	**39.28N**±.025	**16.31E**±.031	**21**±4.3	**4.0b**,2.9s	**101**	**0-126**
NEIC	VII	08 08 13 41.9	39.25N	16.57E	10	3.9b		¶97vii1153
ROM	VII	08 08 13 43.0	39.2N	16.4E	6	3.6D		
PDG	VII	08 08 13 43.5	39.4N	15.9E	69	4.1L		
EIDC	VII	08 08 13 48.0	39.4N	16.4E	39	3.8b,4.1L		
THE	VII	08 08 13 50.6	39.1N	16.9E	9	3.9L		
ISC	**VII**	**08 10 01 59**±1.1	**39.23N**±.065	**16.2E**±.23	**7**		**5**	**0-2**
ROM	VII	08 10 01 58.2	39.2N	16.3E	7	2.7D		¶97vii1172
ROM	**VII**	**08 20 00 15.2**	**41.1N**	**14.6E**	**5**	**2.3D**		**¶97vii1230**
ROM	**VII**	**09 09 37 28.3**	**40.6N**	**15.5E**	**9**	**2.5D**		**¶97vii1311**
ISC	**VII**	**09 18 33 31**±1.0	**39.26N**±.053	**16.4E**±.26	**5**		**6**	**0-2**
ROM	VII	09 18 33 30.6	39.3N	16.4E	5	2.5D		¶97vii1378
ROM	**VII**	**10 00 45 30.6**	**41.0N**	**14.6E**	**5**	**2.2D**		**¶97vii1419**
ROM	**VII**	**10 10 13 39.1**	**40.7N**	**15.3E**	**6**	**2.3D**		**¶97vii1497**
ROM	**VII**	**11 01 20 03.1**	**40.8N**	**15.2E**	**10**	**2.0D**		**¶97vii1602**
ISC	**VII**	**11 03 19 34.5**±.92	**39.24N**±.053	**16.3E**±.23	**5**		**6**	**0-2**
ROM	VII	11 03 19 34.2	39.2N	16.3E	5	2.6D		¶97vii1621
ROM	**VII**	**12 00 02 37.8**	**41.4N**	**14.6E**	**22**	**2.3D**		**¶97vii1745**
ISC	**VII**	**13 23 53 01.8**±.85	**41.94N**±.073	**15.9E**±.10	**7**		**10**	**1-4**
ROM	VII	13 23 53 01.6	42.0N	15.9E	7	3.0D		¶97vii2044
ISC	**VII**	**14 13 30 29**±1.2	**41.8N**±.12	**14.0E**±.11	**9**		**5**	**0-2**
ROM	VII	14 13 30 28.7	41.7N	14.0E	9	2.9D		¶97vii2137
ROM	**VII**	**14 16 26 35.6**	**40.6N**	**16.0E**	**10**	**2.3D**		**¶97vii2173**
ROM	**VII**	**14 16 28 55.6**	**40.5N**	**16.0E**	**10**	**2.4D**		**¶97vii2175**
ISC	**VII**	**15 10 49 32.7**±.88	**40.47N**±.076	**15.6E**±.10	**22**±11		**11**	**0-3**
ROM	VII	15 10 49 32.5	40.5N	15.6E	11	3.1D		¶97vii2295
ROM	**VII**	**15 18 09 23.3**	**41.4N**	**14.6E**	**16**	**2.4D**		**¶97vii2332**
ISC	**VII**	**17 10 23 03.7**±.62	**39.28N**±.045	**16.4E**±.11	**5**		**11**	**0-5**
ROM	VII	17 10 23 04.0	39.3N	16.4E	5	3.4D		¶97vii2583
ROM	**VII**	**17 15 21 30.7**	**39.8N**	**15.5E**	**5**	**2.6D**		**¶97vii2608**
ROM	**VII**	**17 23 10 11.1**	**38.6N**	**16.2E**	**10**	**2.4D**		**¶97vii2659**
ISC	**VII**	**19 18 43 07**±1.1	**41.75N**±.097	**13.07E**±.073	**5**		**7**	**0-2**
ROM	VII	19 18 43 07.1	41.7N	13.0E	5	3.1D		¶97vii2935
ISC	**VII**	**19 19 28 08**±1.5	**40.5N**±.11	**15.7E**±.11	**5**±17		**6**	**0-2**
ROM	VII	19 19 28 08.2	40.5N	15.6E	5	2.9D		¶97vii2940
ROM	**VII**	**22 02 16 49.8**	**41.6N**	**14.3E**	**5**	**2.2D**		**¶97vii3315**
ROM	**VII**	**22 06 30 40.7**	**40.0N**	**15.8E**	**10**	**2.4D**		**¶97vii3335**
ISC	**VII**	**23 10 22 28**±2.6	**39.12N**±.092	**16.7E**±.34	**11**±17		**7**	**0-2**
ROM	VII	23 10 22 28.1	39.1N	16.7E	5	3.3D		¶97vii3515
ISC	**VII**	**23 17 12 14**±1.1	**41.93N**±.071	**13.70E**±.099	**9**±11		**10**	**0-2**
ROM	VII	23 17 12 14.2	41.9N	13.7E	5	3.3D		¶97vii3559
ROM	**VII**	**23 23 11 07.4**	**40.6N**	**15.5E**	**10**	**2.6D**		**¶97vii3587**
ROM	**VII**	**24 04 13 45.3**	**40.3N**	**15.9E**	**10**	**2.4D**		**¶97vii3611**
ROM	**VII**	**24 14 36 19.1**	**40.5N**	**15.9E**	**8**	**2.4D**		**¶97vii3681**
ROM	**VII**	**26 19 33 40.7**	**41.6N**	**12.7E**	**18**	**2.5D**		**¶97vii4003**
ISC	**VII**	**28 14 09 39**±1.7	**40.5N**±.12	**16.1E**±.13	**9**±21		**5**	**1-2**
ROM	VII	28 14 09 39.1	40.5N	16.1E	5	2.8D		¶97vii4287
ISC		Poorly determined						
ROM	**VII**	**29 01 05 07.8**	**40.6N**	**15.5E**	**10**	**2.3D**		**¶97vii4357**
ISC	**VII**	**30 19 10 29**±1.3	**38.2N**±.13	**16.0E**±.15	**15**		**4**	**0-1**
ROM	VII	30 19 10 28.9	38.2N	16.0E	15	2.2D		¶97vii4624
ISC		Poorly determined						
ROM	**VIII**	**01 20 49 34.1**	**41.3N**	**14.6E**	**10**	**2.1D**		**¶97viii0111**
ISC	**VIII**	**02 13 48 16**±1.9	**41.4N**±.10	**14.8E**±.16	**12**±17		**6**	**0-2**
ROM	VIII	02 13 48 16.2	41.5N	14.8E	11	3.1D		¶97viii0218
ROM	**VIII**	**02 17 20 08.5**	**40.6N**	**15.3E**	**26**	**2.4D**		**¶97viii0239**
ROM	**VIII**	**06 04 33 45.9**	**40.2N**	**15.8E**	**10**	**2.4D**		**¶97viii0756**
ROM	**VIII**	**07 01 41 19.4**	**41.2N**	**15.3E**	**10**	**2.1D**		**¶97viii0867**
ROM	**VIII**	**07 04 40 37.6**	**41.6N**	**14.4E**	**6**	**2.5D**		**¶97viii0884**
ROM	**VIII**	**10 18 47 16.4**	**41.4N**	**14.6E**	**5**	**2.2D**		**¶97viii1441**
ISC	**VIII**	**10 19 28 39**±1.8	**39.9N**±.12	**16.0E**±.12	**7**±17		**5**	**0-2**
ROM	VIII	10 19 28 39.2	39.9N	15.9E	5	3.0D		¶97viii1447
ISC		Poorly determined						
ROM	**VIII**	**10 22 12 47.8**	**41.4N**	**14.6E**	**10**	**2.0D**		**¶97viii1467**
ROM	**VIII**	**11 02 37 02.3**	**41.4N**	**14.5E**	**5**	**1.9D**		**¶97viii1495**
ISC	**VIII**	**11 18 11 30**±1.6	**38.6N**±.17	**16.1E**±.22	**10**		**4**	**0-1**
ROM	VIII	11 18 11 29.7	38.7N	16.1E	10	2.4D		¶97viii1602
ISC		Poorly determined						
ROM	**VIII**	**11 18 42 17.8**	**41.4N**	**14.7E**	**19**	**2.4D**		**¶97viii1605**
ROM	**VIII**	**11 18 56 18.0**	**38.6N**	**16.2E**	**10**	**2.2D**		**¶97viii1609**
ROM	**VIII**	**11 18 57 37.1**	**38.8N**	**16.4E**	**10**	**2.2D**		**¶97viii1610**

ROM	**VIII**	**11**	**19**	**00**	**55.0**	**38.6N**		**16.3E**		**10**		**2.3**D	**¶97viii1611**
ROM	**VIII**	**11**	**19**	**09**	**59.4**	**38.7N**		**16.2E**		**10**		**2.2**D	**¶97viii1613**
ISC	**VIII**	**11**	**19**	**21**	**26**±2.0	**38.6N**±.26		**16.1E**±.60		**11**±54		**5**	**0-2**
ROM	VIII	11	19	21	26.1	38.6N		16.1E		10		2.6D	**¶97viii1616**
ISC	Poorly determined												
ROM	**VIII**	**11**	**19**	**30**	**13.8**	**38.6N**		**16.2E**		**10**		**2.5**D	**¶97viii1618**
ISC	**VIII**	**11**	**19**	**53**	**46**±2.3	**38.67N**±.097		**16.1E**±.34		**10**			**4**	**1-2**
ROM	VIII	11	19	53	46.2	38.6N		16.2E		10		2.6D	**¶97viii1620**
ISC	Poorly determined												
ISC	**VIII**	**11**	**20**	**51**	**09.5**±.97	**38.60N**±.073		**16.1E**±.14		**3**±11			**12**	**0-2**
ROM	VIII	11	20	51	09.1	38.6N		16.2E		5		3.1D	**¶97viii1626**
ISC	**VIII**	**11**	**21**	**48**	**52.7**±.45	**41.73N**±.045		**15.98E**±.056		**4**			**22**	**1-6**
ROM	VIII	11	21	48	53.0	41.7N		16.0E		4		3.2D	**¶97viii1635**
PDG	VIII	11	21	48	57.0	41.3N		16.4E		64		3.1L	
ROM	**VIII**	**12**	**02**	**23**	**57.4**	**38.6N**		**16.2E**		**10**		**2.3**D	**¶97viii1666**
ISC	**VIII**	**12**	**03**	**33**	**17.2**±.97	**39.92N**±.081		**16.3E**±.13		**19**±16			**6**	**0-2**
ROM	VIII	12	03	33	16.5	39.9N		16.2E		6		2.9D	**¶97viii1675**
ROM	**VIII**	**12**	**10**	**33**	**10.3**	**38.7N**		**16.2E**		**10**		**2.5**D	**¶97viii1723**
ISC	**VIII**	**12**	**11**	**33**	**55**±1.1	**38.6N**±.11		**16.3E**±.21		**5**			**7**	**0-2**
ROM	VIII	12	11	33	54.7	38.6N		16.4E		5		2.3D	**¶97viii1739**
ISC	**VIII**	**12**	**22**	**45**	**36**±1.1	**38.64N**±.088		**16.1E**±.15		**4**±15			**10**	**0-2**
ROM	VIII	12	22	45	35.8	38.6N		16.2E		5		3.0D	**¶97viii1815**
ISC	**VIII**	**12**	**23**	**10**	**32**±1.3	**38.40N**±.096		**16.0E**±.26		**51**			**6**	**0-2**
ROM	VIII	12	23	10	32.2	38.4N		16.1E		51		2.4D	**¶97viii1816**
ROM	**VIII**	**12**	**23**	**28**	**04.8**	**39.9N**		**16.3E**		**10**		**2.5**D	**¶97viii1820**
ROM	**VIII**	**13**	**01**	**06**	**48.9**	**41.4N**		**14.5E**		**10**		**2.3**D	**¶97viii1834**
ISC	**VIII**	**13**	**01**	**50**	**48**±1.1	**38.66N**±.089		**16.1E**±.15		**5**±16			**9**	**0-2**
ROM	VIII	13	01	50	47.9	38.6N		16.2E		5		2.8D	**¶97viii1839**
ISC	**VIII**	**14**	**14**	**28**	**38**±1.5	**39.88N**±.082		**16.2E**±.10		**5**±18			**7**	**0-2**
ROM	VIII	14	14	28	37.0	39.9N		16.2E		5		2.8D	**¶97viii2078**
ROM	**VIII**	**14**	**21**	**57**	**13.1**	**41.4N**		**14.7E**		**5**		**2.2**D	**¶97viii2118**
ROM	**VIII**	**15**	**07**	**31**	**03.7**	**41.4N**		**14.8E**		**10**		**2.3**D	**¶97viii2175**
ROM	**VIII**	**15**	**18**	**55**	**39.3**	**39.7N**		**16.1E**		**5**		**2.6**D	**¶97viii2253**
ROM	**VIII**	**15**	**20**	**13**	**02.2**	**41.4N**		**14.6E**		**5**		**2.1**D	**¶97viii2265**
ROM	**VIII**	**15**	**20**	**41**	**27.5**	**39.8N**		**16.3E**		**5**		**2.3**D	**¶97viii2269**
ROM	**VIII**	**16**	**12**	**00**	**12.9**	**41.4N**		**14.7E**		**11**		**2.3**D	**¶97viii2365**
ROM	**VIII**	**16**	**18**	**33**	**48.6**	**41.4N**		**14.6E**		**11**		**2.0**D	**¶97viii2402**
ROM	**VIII**	**16**	**18**	**50**	**23.2**	**41.4N**		**14.6E**		**12**		**2.2**D	**¶97viii2403**
ROM	**VIII**	**16**	**19**	**05**	**50.0**	**41.4N**		**14.6E**		**10**		**2.1**D	**¶97viii2405**
ROM	**VIII**	**16**	**22**	**39**	**07.6**	**41.9N**		**13.6E**		**10**		**2.5**D	**¶97viii2428**
ROM	**VIII**	**16**	**23**	**06**	**27.1**	**41.6N**		**14.8E**		**10**		**2.3**D	**¶97viii2432**
ROM	**VIII**	**16**	**23**	**22**	**38.1**	**41.4N**		**14.7E**		**10**		**2.2**D	**¶97viii2434**
ROM	**VIII**	**16**	**23**	**39**	**56.0**	**41.4N**		**14.6E**		**10**		**2.2**D	**¶97viii2438**
ROM	**VIII**	**17**	**01**	**37**	**35.2**	**41.4N**		**14.6E**		**12**		**2.0**D	**¶97viii2450**
ISC	**VIII**	**17**	**01**	**43**	**03**±1.6	**39.87N**±.085		**16.2E**±.11		**6**±19			**6**	**0-2**
ROM	VIII	17	01	43	02.9	39.9N		16.2E		5		2.8D	**¶97viii2451**
ISC	**VIII**	**17**	**02**	**35**	**11.0**±.68	**39.83N**±.051		**16.3E**±.10		**10**			**12**	**0-2**
NEIC	VIII	17	02	35	05.6	39.60N		16.18E		10			**¶97viii2461**
ROM	VIII	17	02	35	10.6	39.8N		16.2E		5		3.0D	
NEIC	Single network solution.												
ISC	**VIII**	**17**	**12**	**39**	**45**±1.5	**38.6N**±.16		**16.2E**±.30		**18**±36			**5**	**0-2**
ROM	VIII	17	12	39	44.4	38.6N		16.2E		8		2.6D	**¶97viii2542**
ISC	Poorly determined												
ROM	**VIII**	**17**	**12**	**40**	**32.8**	**38.6N**		**16.2E**		**5**		**2.4**D	**¶97viii2543**
ROM	**VIII**	**17**	**12**	**41**	**22.8**	**38.6N**		**16.2E**		**5**		**2.3**D	**¶97viii2544**
ROM	**VIII**	**17**	**19**	**57**	**02.7**	**41.4N**		**14.6E**		**10**		**2.2**D	**¶97viii2578**
ISC	**VIII**	**17**	**20**	**26**	**57**±1.2	**38.62N**±.097		**16.1E**±.17		**6**			**4**	**0-2**
ROM	VIII	17	20	26	56.5	38.6N		16.2E		6		2.5D	**¶97viii2584**
ISC	Poorly determined												
ROM	**VIII**	**17**	**21**	**29**	**56.0**	**41.4N**		**14.6E**		**11**		**1.8**D	**¶97viii2587**
ROM	**VIII**	**17**	**22**	**14**	**29.1**	**41.5N**		**14.5E**		**8**		**2.0**D	**¶97viii2592**
ISC	**VIII**	**18**	**03**	**41**	**02.8**±.90	**39.87N**±.067		**16.2E**±.10		**5**			**6**	**0-2**
ROM	VIII	18	03	41	02.6	39.9N		16.2E		5		2.8D	**¶97viii2614**
ROM	**VIII**	**18**	**11**	**20**	**08.5**	**41.4N**		**14.6E**		**9**		**2.1**D	**¶97viii2668**
ROM	**VIII**	**18**	**11**	**33**	**22.0**	**41.4N**		**14.6E**		**10**		**2.1**D	**¶97viii2671**
ROM	**VIII**	**18**	**17**	**20**	**30.6**	**41.4N**		**14.6E**		**9**		**2.3**D	**¶97viii2695**
ISC	**VIII**	**19**	**07**	**52**	**46**±2.6	**41.7N**±.24		**13.0E**±.13		**5**			**4**	**0-1**
ROM	VIII	19	07	52	45.2	41.6N		13.0E		5		2.2D	**¶97viii2776**
ISC	Poorly determined												
ROM	**VIII**	**20**	**21**	**22**	**44.8**	**41.4N**		**14.6E**		**9**		**2.0**D	**¶97viii3017**
ISC	**VIII**	**20**	**23**	**36**	**34**±1.2	**39.47N**±.083		**15.5E**±.17		**317**±13			**39**	**1-16**
ROM	VIII	20	23	36	34.5	39.5N		15.5E		301		3.0D	**¶97viii3034**
ROM	**VIII**	**21**	**06**	**28**	**01.2**	**41.4N**		**14.6E**		**12**		**2.0**D	**¶97viii3063**
ROM	**VIII**	**21**	**20**	**37**	**26.6**	**40.8N**		**15.2E**		**20**		**2.4**D	**¶97viii3141**
ROM	**VIII**	**23**	**10**	**41**	**36.0**	**41.8N**		**13.9E**		**10**		**2.5**D	**¶97viii3391**
ROM	**VIII**	**23**	**19**	**31**	**31.7**	**40.6N**		**15.4E**		**10**		**2.1**D	**¶97viii3445**
ISC	**VIII**	**24**	**18**	**34**	**47**±1.1	**41.96N**±.092		**15.6E**±.13		**5**			**6**	**1-2**
ROM	VIII	24	18	34	47.4	42.0N		15.6E		5		3.0D	**¶97viii3574**
ROM	**VIII**	**25**	**02**	**11**	**22.7**	**41.1N**		**14.9E**		**16**		**2.1**D	**¶97viii3625**
ROM	**VIII**	**25**	**17**	**23**	**28.1**	**41.7N**		**13.3E**		**10**		**2.6**D	**¶97viii3717**
ISC	**VIII**	**26**	**00**	**05**	**29**±1.2	**39.16N**±.081		**16.2E**±.28		**12**			**4**	**0-1**
ROM	VIII	26	00	05	28.1	39.2N		16.2E		12		2.6D	**¶97viii3757**
ISC	Poorly determined												
ROM	**VIII**	**26**	**12**	**36**	**27.0**	**40.6N**		**15.7E**		**10**		**2.4**D	**¶97viii3845**
ROM	**VIII**	**29**	**19**	**46**	**27.7**	**41.8N**		**13.6E**		**10**		**2.4**D	**¶97viii4369**
ROM	**IX**	**01**	**00**	**00**	**43.2**	**40.8N**		**15.1E**		**12**		**2.3**D	**¶97ix0001**
ROM	**IX**	**01**	**23**	**54**	**17.8**	**40.7N**		**15.2E**		**10**		**2.6**D	**¶97ix0181**
ROM	**IX**	**02**	**00**	**09**	**14.3**	**40.8N**		**15.2E**		**10**		**2.6**D	**¶97ix0184**
ROM	**IX**	**02**	**00**	**31**	**21.9**	**40.7N**		**15.4E**		**5**		**2.2**D	**¶97ix0190**
ROM	**IX**	**02**	**01**	**11**	**19.1**	**40.8N**		**15.2E**		**5**		**2.1**D	**¶97ix0196**
ROM	**IX**	**02**	**01**	**56**	**24.5**	**40.7N**		**15.3E**		**6**		**2.2**D	**¶97ix0202**
ROM	**IX**	**02**	**03**	**48**	**55.9**	**40.8N**		**15.2E**		**5**		**2.9**D	**¶97ix0216**
ROM	**IX**	**02**	**04**	**31**	**04.8**	**40.7N**		**15.2E**		**7**		**2.4**D	**¶97ix0221**
ISC	**IX**	**03**	**23**	**15**	**42.4**±.47	**38.36N**±.024		**16.25E**±.021		**28**±4.6		**4.2b**,3.5S	**195**	**0-126**
NEIC	IX	03	23	15	39.5	38.34N		16.35E		10		4.3b	**¶97ix0509**
EIDC	IX	03	23	15	39.8	38.5N		16.2E		0		4.1b,4.5L	
BJI	IX	03	23	15	40.5	38.30N		16.40E		10		4.6b	
ROM	IX	03	23	15	41.4	38.3N		16.3E		5		3.9D	
LDG	IX	03	23	15	47.0	37.9N		15.4E				3.7L	
PDG	IX	03	23	15	47.9	38.9N		16.1E		100		4.4L,4.2D	
THE	IX	03	23	15	48.0	38.6N		16.8E		0		4.2L	
NEIC	ML3.7(ROM).												
ISC	**IX**	**03**	**23**	**31**	**11**±1.7	**38.4N**±.16		**16.2E**±.32		**12**±17			**6**	**0-2**
ROM	IX	03	23	31	10.1	38.4N		16.2E		5		2.8D	**¶97ix0512**
ISC	**IX**	**04**	**00**	**06**	**08.9**±.54	**38.37N**±.031		**16.25E**±.030		**25**±6.3		**3.9b**	**103**	**0-76**
NEIC	IX	04	00	06	06.6	38.37N		16.33E		10		3.7b	**¶97ix0516**
ROM	IX	04	00	06	07.6	38.3N		16.3E		5		3.6D	
PDG	IX	04	00	06	12.9	38.7N		16.2E		150		4.1L	
LDG	IX	04	00	06	13.7	38.0N		15.4E				3.5L	
THE	IX	04	00	06	15.8	38.6N		16.8E		7		3.8L	
EIDC	IX	04	00	06	19.1	38.8N		16.2E		74		3.6b,3.9L	
ISC	**IX**	**04**	**00**	**12**	**25**±1.8	**38.4N**±.12		**16.2E**±.28		**10**			**4**	**0-2**
ROM	IX	04	00	12	24.5	38.4N		16.2E		10		2.7D	**¶97ix0517**
ISC	Poorly determined												
ISC	**IX**	**04**	**01**	**22**	**36**±1.1	**38.45N**±.081		**16.2E**±.15		**4**±12			**9**	**0-2**
ROM	IX	04	01	22	35.2	38.4N		16.2E		5		2.9D	**¶97ix0526**
ROM	**IX**	**04**	**22**	**25**	**53.1**	**41.4N**		**14.6E**		**10**		**2.0**D	**¶97ix0644**
ISC	**IX**	**05**	**19**	**32**	**01**±2.8	**38.4N**±.21		**16.3E**±.39		**24**±24			**5**	**0-2**
ROM	IX	05	19	32	01.5	38.4N		16.2E		11		2.8D	**¶97ix0789**
ISC	Poorly determined												
ISC	**IX**	**05**	**22**	**04**	**56**±2.8	**38.3N**±.17		**16.3E**±.37		**24**			**4**	**0-2**
ROM	IX	05	22	04	55.8	38.4N		16.3E		24		2.6D	**¶97ix0803**
ISC	Poorly determined												
ROM	**IX**	**06**	**00**	**59**	**06.6**	**40.7N**		**15.4E**		**5**		**2.2**D	**¶97ix0829**
ROM	**IX**	**06**	**01**	**40**	**32.2**	**41.8N**		**15.8E**		**17**		**2.6**D	**¶97ix0836**
ROM	**IX**	**06**	**02**	**42**	**59.9**	**41.7N**		**14.2E**		**6**		**2.6**D	**¶97ix0847**
ROM	**IX**	**06**	**02**	**59**	**15.5**	**40.7N**		**15.4E**		**10**		**2.8**D	**¶97ix0851**
ROM	**IX**	**06**	**11**	**56**	**56.5**	**40.7N**		**15.4E**		**10**		**2.1**D	**¶97ix0910**
ROM	**IX**	**06**	**19**	**57**	**43.6**	**40.6N**		**15.5E**		**10**		**2.5**D	**¶97ix0960**
ROM	**IX**	**06**	**20**	**03**	**55.8**	**40.7N**		**15.5E**		**12**		**2.2**D	**¶97ix0962**
ISC	**IX**	**06**	**21**	**54**	**35**±1.2	**38.4N**±.14		**16.2E**±.24		**12**±14			**8**	**0-3**
ROM	IX	06	21	54	34.8	38.4N		16.2E		5		2.8D	**¶97ix0972**
ISC	**IX**	**08**	**04**	**38**	**08**±2.1	**41.6N**±.18		**13.34E**±.094		**5**			**5**	**0-1**
ROM	IX	08	04	38	08.4	41.7N		13.3E		5		2.9D	**¶97ix1173**
ROM	**IX**	**08**	**23**	**06**	**44.2**	**41.4N**		**14.7E**		**5**		**1.8**D	**¶97ix1294**
ISC	**IX**	**09**	**10**	**53**	**24**±1.9	**41.4N**±.15		**16.1E**±.13		**9**			**5**	**1-2**
ROM	IX	09	10	53	23.7	41.4N		16.2E		9		2.7D	**¶97ix1364**
ISC	**IX**	**10**	**04**	**26**	**23**±1.4	**40.5N**±.13		**15.9E**±.11		**10**			**4**	**0-1**
ROM	IX	10	04	26	23.2	40.5N		15.9E		10		2.5D	**¶97ix1474**
ISC	Poorly determined												
ROM	**IX**	**10**	**22**	**16**	**36.2**	**40.2N**		**15.4E**		**5**		**2.2**D	**¶97ix1587**
ROM	**IX**	**11**	**22**	**26**	**35.6**	**41.6N**		**15.3E**		**10**		**2.3**D	**¶97ix1739**
ROM	**IX**	**12**	**08**	**53**	**57.7**	**40.8N**		**15.5E**		**11**		**2.6**D	**¶97ix1791**
ROM	**IX**	**13**	**01**	**43**	**32.2**	**41.6N**		**13.8E**		**7**		**2.5**D	**¶97ix1894**
ROM	**IX**	**13**	**13**	**15**	**50.1**	**41.2N**		**15.0E**		**15**		**2.6**D	**¶97ix1975**
ROM	**IX**	**14**	**03**	**58**	**01.5**	**41.4N**		**14.6E**		**12**		**2.2**D	**¶97ix2066**
ROM	**IX**	**17**	**01**	**26**	**40.4**	**41.4N**		**14.6E**		**21**		**2.0**D	**¶97ix2455**
ROM	**IX**	**18**	**02**	**04**	**37.2**	**41.1N**		**15.0E**		**18**		**2.2**D	**¶97ix2595**
ISC	**IX**	**18**	**03**	**59**	**09**±1.7	**39.65N**±.063		**16.5E**±.16		**8**±13			**8**	**0-2**
ROM	IX	18	03	59	09.4	39.6N		16.5E		5		2.9D	**¶97ix2612**
ROM	**IX**	**18**	**08**	**27**	**56.9**	**41.4N**		**14.6E**		**10**		**2.7**D	**¶97ix2631**
ISC	**IX**	**18**	**22**	**43**	**37**±1.3	**38.2N**±.14		**16.0E**±.17		**20**			**4**	**0-1**
ROM	IX	18	22	43	36.2	38.2N		16.0E		20		2.1D	**¶97ix2720**
ISC	Poorly determined												
ROM	**IX**	**19**	**11**	**15**	**43.5**	**41.4N**		**14.5E**		**9**		**2.0**D	**¶97ix2786**
ISC	**IX**	**19**	**15**	**36**	**01**±3.3	**39.8N**±.10		**16.1E**±.22		**101**±42			**7**	**0-2**
ROM	IX	19	15	36	03.6	39.7N		16.1E		73		2.6D	**¶97ix2807**
ISC	**IX**	**19**	**17**	**56**	**42**±1.3	**41.7N**±.13		**13.56E**±.097		**3**±19			**6**	**0-1**
ROM	IX	19	17	56	41.9	41.8N		13.6E		5		3.1D	**¶97ix2823**
ROM	**IX**	**19**	**19**	**59**	**30.1**	**40.8N**		**15.5E**		**5**		**2.0**D	**¶97ix2838**
ROM	**IX**	**20**	**16**	**16**	**45.9**	**41.8N**		**14.0E**		**5**		**2.3**D	**¶97ix2965**
ROM	**IX**	**22**	**05**	**51**	**04.0**	**41.9N**		**14.1E**		**5**		**2.4**D	**¶97ix3226**
ROM	**IX**	**23**	**03**	**25**	**58.8**	**40.8N**		**15.4E**		**22**		**2.0**D	**¶97ix3369**
ISC	**IX**	**28**	**19**	**09**	**34**±2.9	**40.8N**±.23		**15.7E**±.17		**9**			**4**	**0-1**
ROM	IX	28	19	09	35.0	40.8N		15.8E		9		2.8D	**¶97ix4739**
ISC	Poorly determined												
ROM	**IX**	**29**	**03**	**20**	**19.3**	**41.1N**		**15.3E**		**10**		**2.4**D	**¶97ix4851**
ISC	**IX**	**29**	**21**	**41**	**22**±4.7	**39.6N**±.12		**15.2E**±.33		**3**±35			**5**	**1-2**
ROM	IX	29	21	41	23.2	39.6N		15.4E		5		2.7D	**¶97ix5031**
ISC	Poorly determined												
ROM	**X**	**01**	**04**	**36**	**42.5**	**41.9N**		**14.0E**		**5**		**2.7**D	**¶97x0025**
ISC	**X**	**01**	**21**	**28**	**29**±1.7	**38.4N**±.14		**16.2E**±.26		**10**			**4**	**0-1**
ROM	X	01	21	28	28.9	38.4N		16.2E		10		2.3D	**¶97x0157**
ISC	Poorly determined												
ROM	**X**	**01**	**22**	**01**	**20.4**	**38.4N**		**16.2E**		**10**		**2.2**D	**¶97x0162**
ROM	**X**	**01**	**23**	**20**	**15.4**	**40.7N**		**15.5E**		**5**		**2.4**D	**¶97x0173**
ROM	**X**	**02**	**01**	**27**	**41.6**	**38.4N**		**16.3E**		**10**		**2.1**D	**¶97x0186**
ISC	**X**	**02**	**04**	**50**	**13.7**±.98	**38.41N**±.043		**16.28E**±.052		**14**±8.1		**3.7b**	**38**	**0-24**
EIDC	X	02	04	50	08.4	37.9N		16.9E		0		3.8b,3.9L	**¶97x0208**
NEIC	X	02	04	50	13.2	38.35N		16.30E		10			
ROM	X	02	04	50	13.7	38.4N		16.2E		8		3.5D	
PDG	X	02	04	50	19.9	39.1N		16.3E		10		3.5L	
ATH	X	02	04	51	02.0	38.06N		20.84E		10			
ROM	**X**	**03**	**20**	**21**	**20.9**	**40.7N**		**15.8E**		**9**		**2.5**D	**¶97x0521**
ROM	**X**	**04**	**02**	**18**	**45.7**	**40.7N**		**15.7E**		**12**		**2.3**D	**¶97x0560**
ROM	**X**	**04**	**12**	**24**	**56.6**	**41.4N**		**14.5E**		**5**		**1.9**D	**¶97x0639**
ISC	**X**	**04**	**17**	**57**	**19.0**±.63	**38.19N**±.068		**16.69E**±.082		**60**±9.8		**3.8b**	**21**	**1-32**
EIDC	X	04	17	56	35.3	33.9N		17.1E		0		4.1b	**¶97x0698**
ROM	X	04	17	57	18.4	38.1N		16.8E		44		3.0D	
ATH	X	04	17	57	57.7	37.74N		20.38E		5		3.2D	
ROM	**X**	**05**	**02**	**10**	**37.8**	**41.4N**		**14.6E**		**9**		**2.2**D	**¶97x0782**
ROM	**X**	**05**	**05**	**06**	**02.3**	**41.4N**		**14.6E**		**9**		**2.1**D	**¶97x0802**
ROM	**X**	**06**	**02**	**30**	**54.6**	**41.7N**		**13.8E**		**10**		**2.2**D	**¶97x0969**
ROM	**X**	**06**	**05**	**03**	**40.8**	**41.4N**		**14.6E**		**12**		**1.8**D	**¶97x0992**
ROM	**X**	**08**	**19**	**27**	**06.3**	**41.4N**		**14.6E**		**12**		**3.2**D	**¶97x1460**
ROM	**X**	**08**	**21**	**11**	**24.7**	**41.4N**		**14.6E**		**10**		**2.1**D	**¶97x1478**
ROM	**X**	**08**	**21**	**28**	**51.0**	**41.4N**		**14.6E**		**8**		**2.3**D	**¶97x1482**
ROM	**X**	**08**	**22**	**10**	**34.0**	**41.4N**		**14.6E**		**6**		**1.9**D	**¶97x1485**
ROM	**X**	**08**	**23**	**24**	**15.9**	**41.4N**		**14.6E**		**9**		**2.3**D	**¶97x1490**
ROM	**X**	**09**	**00**	**38**	**14.3**	**41.4N**		**14.6E**		**10**		**2.1**D	**¶97x1499**
ISC	**X**	**09**	**06**	**38**	**22**±1.0	**41.4N**±.12		**14.6E**±.19		**10**			**5**	**1-4**
ROM	X	09	06	38	22.3	41.4N		14.6E		10		3.3D	**¶97x1541**
ROM	**X**	**09**	**07**	**50**	**51.7**	**41.4N**		**14.7E**		**11**		**2.0**D	**¶97x1551**
ROM	**X**	**09**	**08**	**02**	**59.8**	**41.4N**		**14.6E**		**7**		**2.1**D	**¶97x1554**
ROM	**X**	**09**	**09**	**36**	**33.9**	**41.4N**		**14.6E**		**10**		**2.1**D	**¶97x1566**
ROM	**X**	**09**	**12**	**35**	**39.3**	**41.4N**		**14.6E**		**9**		**2.4**D	**¶97x1582**
ISC	**X**	**09**	**20**	**27**	**57**±2.5	**41.4N**±.33		**14.6E**±.43		**19**±25			**5**	**1-1**
ROM	X	09	20	27	55.8	41.4N		14.7E		10		3.1D	**¶97x1636**
ISC	Poorly determined												
ROM	**X**	**09**	**21**	**49**	**13.2**	**41.4N**		**14.7E**		**12**		**2.1**D	**¶97x1646**
ROM	**X**	**10**	**08**	**56**	**08.0**	**41.4N**		**14.6E**		**5**		**2.2**D	**¶97x1724**
ROM	**X**	**10**	**09**	**15**	**17.5**	**40.4N**		**15.5E**		**10**		**2.7**D	**¶97x1729**
ROM	**X**	**10**	**15**	**47**	**31.1**	**41.6N**		**13.7E**		**7**		**2.5**D	**¶97x1768**
ROM	**X**	**10**	**23**	**35**	**51.1**	**40.4N**		**15.6E**		**10**		**2.7**D	**¶97x1814**
ROM	**X**	**11**	**17**	**12**	**46.8**	**41.4N**		**14.6E**		**10**		**2.4**D	**¶97x1914**
ROM	**X**	**11**	**22**	**23**	**39.9**	**41.4N**		**14.6E**		**9**		**2.3**D	**¶97x1948**
ROM	**X**	**12**	**00**	**03**	**35.7**	**41.4N**		**14.6E**		**11**		**2.7**D	**¶97x1959**
ROM	**X**	**12**	**03**	**03**	**37.1**	**41.4N**		**14.6E**		**5**		**2.0**D	**¶97x1977**
ROM	**X**	**12**	**14**	**21**	**38.4**	**41.4N**		**14.6E**		**9**		**1.8**D	**¶97x2056**
ROM	**X**	**13**	**07**	**47**	**24.7**	**41.6N**		**14.6E**		**5**		**1.9**D	**¶97x2179**

Agency		Origin Time				ϕ	λ	h	Mag	n	Δ-Rng
	mo	d	h	m	s	°	°	km			°
ROM	**X**	**14**	**05**	**17**	**21.8**	**41.4N**	**14.6E**	**9**	**2.0D**		¶97x2343
ROM	**X**	**14**	**10**	**25**	**21.4**	**41.4N**	**14.6E**	**5**	**2.2D**		¶97x2377
ROM	**X**	**14**	**14**	**40**	**53.9**	**41.4N**	**14.6E**	**5**	**1.8D**		¶97x2425
ROM	**X**	**16**	**05**	**35**	**42.7**	**41.7N**	**14.0E**	**9**	**2.4D**		¶97x2795
ROM	**X**	**17**	**17**	**41**	**16.3**	**41.4N**	**14.6E**	**6**	**2.2D**		¶97x3032
ROM	**X**	**17**	**21**	**07**	**27.6**	**40.7N**	**15.4E**	**9**	**2.2D**		¶97x3059
ROM	**X**	**17**	**22**	**31**	**35.9**	**40.5N**	**15.5E**	**10**	**2.4D**		¶97x3067
ROM	**X**	**19**	**11**	**22**	**24.3**	**40.8N**	**15.2E**	**10**	**2.2D**		¶97x3339
ROM	**X**	**19**	**17**	**08**	**53.9**	**41.4N**	**14.7E**	**7**	**2.1D**		¶97x3371
ROM	**X**	**19**	**20**	**38**	**06.2**	**41.7N**	**13.8E**	**18**	**2.6D**		¶97x3390
ROM	**X**	**22**	**07**	**56**	**27.5**	**40.8N**	**15.3E**	**10**	**2.1D**		¶97x3774
ISC	**X**	**22**	**17**	**40**	**46.5**±.97	**40.1N**±.10	**15.8E**±.14	**23**±16		**6**	**0-2**
ROM	X	22	17	40	46.0	40.0N	15.8E	5	2.8D		¶97x3858
ROM	**X**	**25**	**18**	**49**	**46.6**	**41.4N**	**14.6E**	**10**	**2.0D**		¶97x4358
ROM	**X**	**26**	**12**	**36**	**56.4**	**41.5N**	**14.4E**	**5**	**2.1D**		¶97x4461
ISC	**X**	**26**	**15**	**24**	**43**±1.3	**41.8N**±.11	**12.8E**±.11	**5**		**4**	**0-1**
ROM	X	26	15	24	41.7	41.8N	12.9E	5	2.2D		¶97x4487
ISC	Poorly determined										
ROM	**X**	**27**	**02**	**26**	**41.8**	**41.0N**	**14.5E**	**10**	**2.2D**		¶97x4556
ROM	**X**	**27**	**19**	**29**	**42.1**	**40.0N**	**15.9E**	**10**	**2.4D**		¶97x4650
ISC	**XI**	**01**	**07**	**52**	**49**±1.1	**39.50N**±.068	**16.2E**±.19	**10**		**5**	**1-1**
ROM	XI	01	07	52	49.3	39.5N	16.2E	10	2.7D		¶97xi0043
ISC	**XI**	**01**	**07**	**57**	**43.2**±.88	**39.50N**±.029	**16.21E**±.042	**4**±6.9	3.9b	**55**	**0-23**
PDG	XI	01	07	57	42.0	39.1N	16.2E	52	3.8L		¶97xi0045
ROM	XI	01	07	57	43.3	39.5N	16.3E	5	3.4D		
NEIC	XI	01	07	57	43.7	39.50N	16.22E	10			
EIDC	XI	01	07	57	52.5	40.2N	16.9E	0	3.6b,3.9L		
ROM	**XI**	**01**	**14**	**07**	**07.9**	**41.4N**	**14.6E**	**10**	**2.0D**		¶97xi0092
ROM	**XI**	**02**	**22**	**42**	**47.8**	**41.4N**	**14.6E**	**9**	**2.1D**		¶97xi0348
ISC	**XI**	**03**	**19**	**06**	**50**±2.2	**39.43N**±.084	**17.2E**±.27	**5**		**6**	**1-2**
ROM	XI	03	19	06	49.9	39.4N	17.2E	5	2.7D		¶97xi0503
ROM	**XI**	**04**	**08**	**35**	**26.2**	**40.6N**	**15.5E**	**6**	**2.5D**		¶97xi0601
ROM	**XI**	**05**	**11**	**28**	**42.6**	**40.8N**	**14.5E**	**5**	**2.5D**		¶97xi0786
ISC	**XI**	**06**	**02**	**20**	**26.8**±.49	**41.95N**±.036	**12.66E**±.029	**20**±5.9	3.6b	**98**	**0-21**
STR	XI	06	02	20	21.5	41.58N	13.08E	10	4.5L		¶97xi0906
NEIC	XI	06	02	20	23.2	41.76N	12.77E	10			
EIDC	XI	06	02	20	24.2	41.8N	13.1E	0	3.9L,3.6b		
LDG	XI	06	02	20	25.8	41.7N	12.8E		3.5L		
ROM	XI	06	02	20	26.6	42.0N	12.8E	2	3.5D		
PDG	XI	06	02	20	35.3	41.7N	13.6E	9	3.8L		
NEIC	Felt I=V MCS at Rome.										
ROM	**XI**	**06**	**03**	**48**	**00.4**	**41.9N**	**12.9E**	**10**	**2.1D**		¶97xi0918
ROM	**XI**	**06**	**10**	**34**	**30.1**	**40.7N**	**15.2E**	**10**	**2.2D**		¶97xi0961
ROM	**XI**	**06**	**10**	**38**	**25.9**	**40.7N**	**15.3E**	**10**	**2.1D**		¶97xi0962
ROM	**XI**	**14**	**01**	**43**	**50.6**	**40.8N**	**15.5E**	**9**	**2.5D**		¶97xi2218
ROM	**XI**	**16**	**06**	**34**	**15.2**	**40.7N**	**15.5E**	**9**	**3.0D**		¶97xi2608
ISC	**XI**	**21**	**07**	**37**	**13**±1.7	**40.7N**±.21	**16.1E**±.13	**25**±32		**11**	**1-5**
ROM	XI	21	07	37	13.6	40.6N	16.0E	22	2.8D		¶97xi3620
ISC	**XI**	**23**	**17**	**29**	**53**±3.2	**41.7N**±.30	**12.8E**±.27	**12**		**4**	**0-1**
ROM	XI	23	17	29	53.0	41.7N	12.8E	12	2.4D		¶97xi4164
ISC	Poorly determined										
ROM	**XI**	**23**	**21**	**05**	**56.1**	**41.7N**	**12.7E**	**19**	**2.7D**		¶97xi4197
ISC	**XI**	**24**	**19**	**04**	**56.3**±.39	**41.33N**±.048	**14.55E**±.038	**56**±14		**62**	**1-20**
NEIC	XI	24	19	04	54.0	41.32N	14.50E	10			¶97xi4363
ROM	XI	24	19	04	54.9	41.4N	14.6E	10	3.6D		
LDG	XI	24	19	04	55.2	41.4N	14.8E		3.3L		
PDG	XI	24	19	04	56.2	41.1N	14.8E	14	3.8L		
ROM	**XI**	**24**	**21**	**38**	**48.4**	**41.4N**	**14.6E**	**10**	**2.1D**		¶97xi4391
ISC	**XI**	**25**	**01**	**37**	**44**±1.2	**41.38N**±.057	**14.57E**±.063	**20**±16		**24**	**1-9**
NEIC	XI	25	01	37	43.1	41.48N	14.50E	10			¶97xi4424
ROM	XI	25	01	37	43.2	41.4N	14.6E	11	3.3D		
LDG	XI	25	01	37	43.3	41.4N	14.8E		3.5L		
NEIC	Less reliable solution.										
ROM	**XI**	**25**	**05**	**03**	**01.6**	**41.4N**	**14.6E**	**10**	**2.0D**		¶97xi4449
ROM	**XI**	**25**	**17**	**31**	**58.0**	**41.4N**	**14.7E**	**10**	**1.8D**		¶97xi4553
ROM	**XI**	**25**	**20**	**37**	**31.7**	**41.4N**	**14.7E**	**8**	**2.3D**		¶97xi4572
ISC	**XI**	**25**	**23**	**39**	**26.9**±.82	**39.30N**±.054	**15.8E**±.17	**17**		**7**	**1-1**
ROM	XI	25	23	39	26.7	39.3N	15.9E	17	2.7D		¶97xi4596
ROM	**XI**	**26**	**01**	**56**	**09.7**	**41.4N**	**14.6E**	**10**	**2.3D**		¶97xi4611
ROM	**XI**	**27**	**00**	**50**	**36.7**	**41.4N**	**14.6E**	**10**	**2.2D**		¶97xi4771
ISC	**XI**	**27**	**06**	**23**	**38.4**±.61	**39.35N**±.086	**15.7E**±.10	**283**±5.9	**3.5b**	**34**	**1-91**
EIDC	XI	27	06	23	34.7	39.0N	16.2E	260	3.3b		¶97xi4812
ROM	XI	27	06	23	36.2	39.3N	15.6E	298	2.9D		
NEIC	XI	27	06	23	50.5	40.15N	14.82E	350	4.0b		
NEIC	Less reliable solution.										
ROM	**XI**	**27**	**07**	**13**	**02.5**	**41.4N**	**14.6E**	**8**	**2.4D**		¶97xi4822
ROM	**XI**	**27**	**10**	**19**	**48.6**	**41.4N**	**15.7E**	**18**	**2.2D**		¶97xi4840
ROM	**XI**	**28**	**00**	**29**	**19.0**	**41.4N**	**14.6E**	**27**	**2.2D**		¶97xi4970
ROM	**XI**	**28**	**03**	**03**	**46.5**	**40.8N**	**15.2E**	**10**	**2.2D**		¶97xi4999
ROM	**XI**	**28**	**20**	**57**	**17.3**	**41.4N**	**14.6E**	**12**	**2.0D**		¶97xi5143
ROM	**XI**	**28**	**20**	**59**	**03.0**	**41.4N**	**14.6E**	**13**	**2.5D**		¶97xi5144
ROM	**XI**	**28**	**22**	**51**	**54.1**	**41.4N**	**14.6E**	**20**	**2.3D**		¶97xi5150
ROM	**XI**	**28**	**23**	**49**	**08.0**	**41.4N**	**14.6E**	**13**	**2.1D**		¶97xi5159
ROM	**XI**	**29**	**04**	**17**	**40.3**	**41.4N**	**14.6E**	**12**	**2.6D**		¶97xi5195
ISC	**XI**	**29**	**07**	**55**	**23.8**±.75	**39.04N**±.050	**15.3E**±.11	**10**		**11**	**1-2**
ROM	XI	29	07	55	23.9	39.0N	15.3E	10	2.8D		¶97xi5222
ROM	**XI**	**29**	**09**	**34**	**26.6**	**41.4N**	**14.6E**	**13**	**2.5D**		¶97xi5238
ROM	**XI**	**30**	**01**	**04**	**24.0**	**41.4N**	**14.6E**	**10**	**2.3D**		¶97xi5347
ROM	**XI**	**30**	**08**	**37**	**51.1**	**41.4N**	**14.7E**	**16**	**2.0D**		¶97xi5389
ROM	**XI**	**30**	**13**	**11**	**46.3**	**41.4N**	**14.6E**	**12**	**2.7D**		¶97xi5415
ISC	**XI**	**30**	**15**	**24**	**51**±1.1	**41.60N**±.093	**15.8E**±.15	**10**		**5**	**1-4**
ROM	XI	30	15	24	51.8	41.5N	15.8E	10	2.9D		¶97xi5426
ROM	**XII**	**01**	**14**	**30**	**03.5**	**41.4N**	**14.6E**	**15**	**2.2D**		¶97xii0100
ROM	**XII**	**02**	**04**	**13**	**43.9**	**41.4N**	**14.6E**	**12**	**2.6D**		¶97xii0182
ROM	**XII**	**03**	**11**	**37**	**50.2**	**41.4N**	**14.6E**	**16**	**2.6D**		¶97xii0411
ROM	**XII**	**06**	**10**	**50**	**24.7**	**41.5N**	**14.2E**	**11**	**2.6D**		¶97xii1370
ROM	**XII**	**06**	**22**	**17**	**02.4**	**41.7N**	**13.0E**	**10**	**1.9D**		¶97xii1545
ROM	**XII**	**08**	**09**	**03**	**44.5**	**41.0N**	**15.6E**	**10**	**2.5D**		¶97xii1898
ROM	**XII**	**10**	**05**	**23**	**25.2**	**41.4N**	**14.6E**	**11**	**2.4D**		¶97xii2299
ROM	**XII**	**10**	**17**	**39**	**39.8**	**41.5N**	**14.2E**	**10**	**2.8D**		¶97xii2397
ROM	**XII**	**10**	**19**	**32**	**58.1**	**41.5N**	**14.2E**	**10**	**2.6D**		¶97xii2414
ISC	**XII**	**10**	**21**	**09**	**07.0**±.90	**41.48N**±.094	**14.2E**±.10	**8**		**10**	**0-4**
ROM	XII	10	21	09	06.4	41.5N	14.2E	8	3.0D		¶97xii2425
ROM	**XII**	**13**	**22**	**29**	**17.6**	**39.8N**	**16.1E**	**5**	**2.7D**		¶97xii3029
ISC	**XII**	**15**	**21**	**49**	**30.6**±.77	**39.6N**±.11	**16.1E**±.23	**263**±8.4	**3.5b**	**10**	**1-34**
ROM	XII	15	21	49	33.0	39.5N	15.9E	236	2.7D		¶97xii3348
EIDC	XII	15	21	49	38.7±5.50	39.6N	16.0E	343±71.1	3.1b		
EIDC	Error ellipse is semi−major=64.1km semi−minor=21.9km azimuth=95										
ROM	**XII**	**16**	**02**	**41**	**01.9**	**41.9N**	**14.1E**	**10**	**2.2D**		¶97xii3373
ROM	**XII**	**16**	**09**	**52**	**55.5**	**41.7N**	**14.0E**	**10**	**2.1D**		¶97xii3432
ROM	**XII**	**17**	**12**	**38**	**55.4**	**41.7N**	**13.5E**	**10**	**2.6D**		¶97xii3604
ROM	**XII**	**17**	**21**	**16**	**25.9**	**41.4N**	**14.7E**	**18**	**2.6D**		¶97xii3663
ROM	**XII**	**18**	**05**	**23**	**57.9**	**42.0N**	**14.1E**	**10**	**2.3D**		¶97xii3712
ISC	**XII**	**18**	**22**	**02**	**49.8**±.37	**39.35N**±.056	**15.25E**±.074	**303**±3.9	**3.8b**	**51**	**1-74**
ROM	XII	18	22	02	47.2	39.2N	15.2E	307	3.6D		¶97xii3840
NEIC	XII	18	22	02	49.8	39.35N	15.20E	306	3.6b		
EIDC	XII	18	22	02	53.4±2.98	39.5N	15.2E	324±33.9	3.3b		
EIDC	Error ellipse is semi−major=28.6km semi−minor=15.9km azimuth=73										
ROM	**XII**	**19**	**00**	**23**	**32.8**	**39.2N**	**15.0E**	**142**	**2.6D**		¶97xii3859
ROM	**XII**	**22**	**15**	**53**	**40.5**	**42.0N**	**14.0E**	**5**	**2.6D**		¶97xii4443
ISC	**XII**	**25**	**00**	**42**	**57.1**±.69	**39.77N**±.044	**16.43E**±.066	**17**±8.6		**26**	**0-8**
ROM	XII	25	00	42	56.4	39.7N	16.6E	5	3.1D		¶97xii4846
ROM	**XII**	**25**	**01**	**02**	**24.0**	**40.3N**	**15.9E**	**5**	**2.4D**		¶97xii4849
ROM	**XII**	**26**	**04**	**33**	**32.5**	**41.0N**	**14.9E**	**5**	**2.2D**		¶97xii5045
ROM	**XII**	**28**	**05**	**54**	**21.7**	**41.6N**	**15.7E**	**14**	**2.8D**		¶97xii5406
ROM	**XII**	**29**	**02**	**17**	**22.9**	**41.1N**	**15.2E**	**5**	**2.7D**		¶97xii5533
ISC	**XII**	**30**	**01**	**14**	**52**±2.0	**40.7N**±.14	**15.9E**±.11	**5**±22		**6**	**0-3**
ROM	XII	30	01	14	51.7	40.7N	15.9E	5	3.1D		¶97xii5667
ROM	**XII**	**30**	**07**	**20**	**38.6**	**41.3N**	**14.8E**	**16**	**2.5D**		¶97xii5699
ISC	**XII**	**30**	**21**	**49**	**52**±1.8	**39.82N**±.070	**15.9E**±.13	**9**±15		**8**	**0-2**
ROM	XII	30	21	49	51.8	39.9N	15.9E	5	3.0D		¶97xii5794

(391) Albania.

ISC	**VII**	**01**	**11**	**25**	**46.3**±.52	**41.35N**±.029	**20.19E**±.034	**6**±4.7	**3.6b**	**64**	**0-70**
ROM	VII	01	11	25	41.2	41.3N	20.9E	10	3.4D		¶97vii0076
NEIC	VII	01	11	25	43.4	41.30N	20.47E	10			
EIDC	VII	01	11	25	44.4	41.3N	20.9E	0	3.4b,3.6L		
TIR	VII	01	11	25	45.6	41.41N	20.32E	12	3.6L		
PDG	VII	01	11	25	46.7	41.2N	20.1E	13	3.6D		
ATH	VII	01	11	25	49.6	41.26N	20.41E	5	3.5D		
THE	VII	01	11	25	51.3	41.3N	20.4E	10	3.3L		
NEIC	M_L3.0(LJU), Less reliable solution.										
ISC	**VII**	**01**	**11**	**51**	**41.2**±.69	**41.38N**±.063	**20.25E**±.073	**12**		**14**	**0-2**
TIR	VII	01	11	51	39.5	41.39N	20.27E	12	3.0L		¶97vii0080
PDG	VII	01	11	51	41.3	41.2N	20.0E	10	3.0L		
ISC	**VII**	**01**	**11**	**58**	**43.8**±.59	**41.36N**±.049	**20.26E**±.068	**12**		**15**	**0-2**
TIR	VII	01	11	58	42.5	41.38N	20.30E	12	3.2L		¶97vii0082
PDG	VII	01	11	58	43.0	41.3N	20.3E	12	3.3L,3.3D		
ISC	**VII**	**01**	**12**	**03**	**58.4**±.66	**41.35N**±.054	**20.27E**±.067	**9**		**14**	**0-2**
TIR	VII	01	12	03	57.3	41.38N	20.29E	9	2.7L		¶97vii0083
PDG	VII	01	12	03	57.7	41.3N	20.3E	10	2.8L		
ISC	**VII**	**01**	**23**	**00**	**28.5**±.85	**41.01N**±.063	**20.25E**±.083	**13**		**7**	**0-2**
TIR	VII	01	23	00	28.4	41.01N	20.27E	13	2.3L		¶97vii0152
ISC	**VII**	**09**	**05**	**14**	**14**±6.0	**41.6N**±.13	**20.8E**±.55	**10**		**6**	**1-2**
THE	VII	09	05	14	16.3	41.5N	20.7E	10	2.6L		¶97vii1285
ISC	**VII**	**13**	**19**	**11**	**49.1**±.62	**41.27N**±.059	**20.48E**±.074	**7**		**15**	**1-2**
PDG	VII	13	19	11	46.8	41.1N	20.4E	7	2.8L		¶97vii2010
THE	VII	13	19	11	51.2	41.3N	20.6E	0	2.2L		
ISC	**VII**	**19**	**22**	**13**	**01.5**±.74	**41.25N**±.056	**19.92E**±.091	**10**		**15**	**0-2**
TIR	VII	19	22	13	01.0	41.27N	20.00E	0	2.5L		¶97vii2961
PDG	VII	19	22	13	03.5	41.3N	19.9E	10	2.8L		
ISC	**VII**	**20**	**03**	**39**	**10.2**±.40	**41.23N**±.023	**19.85E**±.021	**25**±3.8	**4.5b**,4.5s	**246**	**0-123**
TIR	VII	20	03	39	09.3	41.31N	20.12E	11	4.5L		¶97vii2997
MOS	VII	20	03	39	10.3	41.0N	19.7E	33	5.2b,3.7s		
PDG	VII	20	03	39	10.7	41.2N	20.0E	1	4.6D		
NEIC	VII	20	03	39	11.1	41.26N	19.82E	33	4.5b		
BJI	VII	20	03	39	12.0	41.60N	20.34E	27	4.7b		
ATH	VII	20	03	39	12.7	41.40N	19.97E	38	4.7L		
THE	VII	20	03	39	13.0	41.2N	20.2E	3	4.3L		
EIDC	VII	20	03	39	14.4	41.3N	20.0E	44	4.1b,4.6L		
LDG	VII	20	03	39	17.7	41.7N	19.5E		4.4L		
TIR	Felt I=IV−V MSK at Tirana, Department of Elbasani										
ISC	**VII**	**20**	**03**	**43**	**33**±2.9	**41.3N**±.11	**20.2E**±.25	**1**		**11**	**1-3**
THE	VII	20	03	43	35.5	41.2N	20.3E	1	2.8L		¶97vii3000
ISC	**VII**	**20**	**03**	**43**	**45.3**±.54	**41.29N**±.028	**19.82E**±.026	**13**±3.9	**4.0b**	**126**	**0-92**
ATH	VII	20	03	43	40.9	41.70N	19.20E	30	4.5L		¶97vii3001
PDG	VII	20	03	43	48.3	41.3N	19.9E	6	4.1D		
NEIC	VII	20	03	43	48.4	41.43N	19.75E	33	4.0b		
THE	VII	20	03	43	48.6	41.2N	20.1E	2	3.9L		
LDG	VII	20	03	43	50.7	41.9N	20.0E		4.2L		
EIDC	VII	20	03	43	53.7	41.5N	19.8E	58	3.7b		
ISC	**VII**	**20**	**03**	**50**	**45**±4.3	**41.2N**±.11	**20.3E**±.39	**0**		**7**	**1-3**
THE	VII	20	03	50	44.8	41.2N	20.1E	0			¶97vii3003
ISC	**VII**	**20**	**03**	**52**	**11.6**±.64	**41.35N**±.059	**20.00E**±.083	**9**		**15**	**1-5**
PDG	VII	20	03	52	10.8	41.2N	19.9E	9	3.1L		¶97vii3004
ATH	VII	20	03	52	27.2	40.60N	20.80E	10	3.2D		
ISC	**VII**	**20**	**03**	**54**	**12.0**±.66	**41.30N**±.057	**19.97E**±.078	**2**		**17**	**1-3**
PDG	VII	20	03	54	13.7	41.3N	19.8E	2	3.0L		¶97vii3005
THE	VII	20	03	54	15.3	41.2N	20.2E	0			
ISC	**VII**	**20**	**03**	**57**	**03.2**±.69	**41.19N**±.067	**19.98E**±.095	**16**		**15**	**1-3**
PDG	VII	20	03	57	02.5	41.2N	19.8E	16	2.6L		¶97vii3006
THE	VII	20	03	57	03.7	41.2N	20.1E	0			
ISC	**VII**	**20**	**04**	**01**	**27.1**±.87	**41.27N**±.079	**20.03E**±.089	**4**		**15**	**1-3**
PDG	VII	20	04	01	27.0	41.1N	19.9E	4	3.3L		¶97vii3008
ISC	**VII**	**20**	**04**	**06**	**45.0**±.46	**41.29N**±.044	**20.00E**±.059	**13**		**28**	**0-5**
TIR	VII	20	04	06	43.8	41.32N	20.07E	13	3.0L		¶97vii3013
PDG	VII	20	04	06	43.8	41.2N	20.0E	12	3.1L		
THE	VII	20	04	06	47.2	41.2N	20.1E	2	2.8L		
ISC	**VII**	**20**	**05**	**25**	**24.5**±.51	**41.28N**±.031	**19.89E**±.033	**22**±5.6	**3.5b**	**107**	**0-92**
TIR	VII	20	05	25	23.5	41.28N	20.10E	9	3.3L		¶97vii3023
ATH	VII	20	05	25	24.2	41.50N	19.77E	31	4.4L		
NEIC	VII	20	05	25	24.6	41.21N	19.89E	33	3.7b		
LDG	VII	20	05	25	26.0	41.6N	20.1E		4.0L		
PDG	VII	20	05	25	26.1	41.2N	19.8E	18	3.8D		
THE	VII	20	05	25	27.8	41.2N	20.2E	8	3.6L		
EIDC	VII	20	05	25	29.2	41.3N	19.9E	60	3.3b,4.3L		
ISC	**VII**	**20**	**05**	**46**	**47.1**±.51	**41.24N**±.032	**19.83E**±.033	**28**±5.4	**3.9b**	**111**	**0-92**
PDG	VII	20	05	46	43.8	41.1N	20.0E	10	4.0L,4.0D		¶97vii3025
ATH	VII	20	05	46	43.9	41.54N	19.47E	29	4.4L		
TIR	VII	20	05	46	45.7	41.30N	20.06E	5	3.2L		
NEIC	VII	20	05	46	47.5	41.26N	19.79E	33	3.6b		
THE	VII	20	05	46	48.8	41.2N	20.1E	2	3.8L		
LDG	VII	20	05	46	51.0	41.7N	19.9E		4.1L		
EIDC	VII	20	05	46	52.8	41.5N	19.8E	51	3.5b,4.2L		
ISC	**VII**	**20**	**06**	**06**	**29.6**±.84	**41.19N**±.073	**19.9E**±.11	**24**		**13**	**0-2**
TIR	VII	20	06	06	27.6	41.26N	19.97E	24	2.6L		¶97vii3030
PDG	VII	20	06	06	30.3	41.3N	19.7E	11	2.8L		

ISC	**VII**	**20 07 04 58.9**±.56	**41.23N**±.047	**19.97E**±.073	**15**			**21**	**0-3**	
TIR	VII	20 07 04 58.4	41.22N	19.92E	15	2.6L		**¶97vii3036**		
PDG	VII	20 07 05 01.0	41.3N	19.9E	19	2.6L				
THE	VII	20 07 05 03.9	40.9N	20.3E	7	2.4L				
ISC	**VII**	**20 07 50 14.8**±.42	**41.28N**±.039	**20.07E**±.055	**11**			**28**	**0-3**	
PDG	VII	20 07 50 13.5	41.2N	20.1E	11	3.2L		**¶97vii3042**		
THE	VII	20 07 50 15.9	41.3N	20.2E	1	3.1L				
ATH	VII	20 07 50 29.0	40.62N	20.78E	10					
ISC	**VII**	**20 08 28 48.1**±.49	**41.21N**±.030	**19.90E**±.034	**27**±5.0	**3.8b**		**111**	**0-93**	
ATH	VII	20 08 28 44.8	41.55N	19.57E	30	4.5L		**¶97vii3048**		
TIR	VII	20 08 28 46.7	41.22N	20.07E	17	4.0L				
THE	VII	20 08 28 47.0	41.4N	20.0E	0	3.8L				
PDG	VII	20 08 28 48.4	41.2N	20.0E	11	4.1D				
NEIC	VII	20 08 28 49.3	41.22N	19.69E	33	3.8b				
LDG	VII	20 08 28 53.0	41.7N	19.8E		4.2L				
EIDC	VII	20 08 28 56.4	41.6N	19.8E	71	3.5b				
ISC	**VII**	**20 08 34 05.0**±.60	**41.32N**±.040	**20.04E**±.056	**9**±5.6			**37**	**0-20**	
ATH	VII	20 08 34 04.4	41.50N	20.15E	5	3.4D		**¶97vii3049**		
TIR	VII	20 08 34 05.0	41.32N	20.06E	19	3.2L				
PDG	VII	20 08 34 06.4	41.2N	19.8E	14	3.3L,3.3D				
THE	VII	20 08 34 07.5	41.2N	20.2E	0	3.2L				
EIDC	VII	20 08 34 08.2	41.6N	20.0E	0	3.8L,3.0b				
ISC	**VII**	**20 09 01 51.6**±.91	**41.28N**±.075	**20.14E**±.083	**5**			**11**	**0-3**	
THE	VII	20 09 01 54.7	41.2N	20.2E	5	2.7L		**¶97vii3054**		
ISC	**VII**	**20 09 24 32.8**±.45	**41.29N**±.023	**19.89E**±.024	**27**±4.9	**4.0b**		**157**	**0-92**	
ATH	VII	20 09 24 24.4	41.70N	19.31E	3	4.6L		**¶97vii3056**		
PDG	VII	20 09 24 29.5	41.0N	20.0E	2	4.4D				
EIDC	VII	20 09 24 30.6	41.2N	19.9E	0	3.9b,4.2L				
TIR	VII	20 09 24 31.0	41.29N	20.13E	16	3.5L				
NEIC	VII	20 09 24 33.8	41.32N	19.84E	33	3.9b				
THE	VII	20 09 24 34.2	41.2N	20.1E	0	3.9L				
LDG	VII	20 09 24 37.0	41.7N	19.8E		4.3L				
NEIC	ML4.0(ROM).									
ISC	**VII**	**20 09 32 17.6**±.63	**41.33N**±.026	**19.96E**±.030	**3**±5.0	**3.8b**		**94**	**0-92**	
ATH	VII	20 09 32 10.8	41.80N	19.19E	13	4.4D		**¶97vii3058**		
PDG	VII	20 09 32 16.2	41.1N	20.0E	9	3.8L,3.8D				
TIR	VII	20 09 32 17.6	41.34N	20.08E	16	3.5L				
THE	VII	20 09 32 21.1	41.3N	20.2E	2	3.6L				
NEIC	VII	20 09 32 22.5	41.51N	19.74E	33	3.6b				
EIDC	VII	20 09 32 27.4	41.5N	19.8E	63	3.5b				
ISC	**VII**	**20 09 48 06.2**±.49	**41.38N**±.058	**19.98E**±.047	**1**			**22**	**1-8**	
THE	VII	20 09 48 12.2	41.1N	20.3E	1			**¶97vii3060**		
ISC	**VII**	**20 09 48 24.9**±.61	**41.35N**±.046	**19.91E**±.051	**20**±6.7	**4.4b**		**57**	**0-72**	
THE	VII	20 09 48 26.1	41.3N	20.1E	1	3.2L		**¶97vii3061**		
PDG	VII	20 09 48 28.3	41.3N	20.0E	12	3.6L,3.7D				
NEIC	VII	20 09 48 29.7	41.73N	19.62E	33	3.7b				
EIDC	VII	20 09 48 38.2	42.1N	20.0E	64	3.9L,3.5b				
ATH	VII	20 09 48 41.6	40.49N	20.95E	39	3.5D				
NEIC	Less reliable solution.									
ISC	**VII**	**20 09 56 57.5**±.50	**41.34N**±.049	**20.11E**±.064	**10**			**20**	**0-3**	
PDG	VII	20 09 56 57.2	41.2N	19.9E	10	2.8L		**¶97vii3065**		
THE	VII	20 09 56 58.8	41.3N	20.2E	1	2.7L				
ISC	**VII**	**20 09 58 26**±3.2	**41.3N**±.16	**20.2E**±.33	**33**			**6**	**1-2**	
								¶97vii3066		
ISC	**VII**	**20 10 02 14**±2.8	**41.2N**±.13	**20.2E**±.28	**33**			**8**	**1-3**	
								¶97vii3067		
ISC	**VII**	**20 10 26 57.8**±.64	**41.32N**±.062	**20.02E**±.088	**13**			**17**	**1-3**	
PDG	VII	20 10 26 57.4	41.2N	19.8E	13	2.8L		**¶97vii3072**		
THE	VII	20 10 26 59.7	41.2N	20.2E	0	2.7L				
ISC	**VII**	**20 11 07 37.3**±.45	**41.31N**±.043	**20.08E**±.055	**10**			**25**	**1-3**	
PDG	VII	20 11 07 35.4	41.1N	19.9E	10	3.0L		**¶97vii3077**		
THE	VII	20 11 07 38.4	41.3N	20.1E	0	2.8L				
ATH	VII	20 11 07 53.3	40.63N	20.95E	10					
ISC	**VII**	**20 12 54 02.7**±.60	**41.30N**±.058	**20.05E**±.076	**5**			**20**	**1-3**	
THE	VII	20 12 53 59.1	41.5N	19.7E	5	2.8L		**¶97vii3096**		
PDG	VII	20 12 54 01.8	41.2N	20.1E	12	2.8L				
ISC	**VII**	**20 14 29 06**±2.0	**41.3N**±.15	**20.0E**±.10	**7**			**11**	**1-2**	
PDG	VII	20 14 29 04.0	41.1N	20.0E	7	2.6L		**¶97vii3102**		
ISC	**VII**	**20 14 54 53.7**±.58	**41.23N**±.061	**19.99E**±.081	**16**			**23**	**0-3**	
PDG	VII	20 14 54 52.7	41.2N	19.9E	16	3.0L		**¶97vii3107**		
THE	VII	20 14 54 53.5	41.3N	20.0E	0	2.5L				
ISC	**VII**	**21 04 24 57.2**±.82	**41.25N**±.071	**20.12E**±.074	**0**			**10**	**0-2**	
THE	VII	21 04 24 56.6	41.3N	20.0E	0	2.3L		**¶97vii3188**		
ISC	**VII**	**21 06 37 26**±1.0	**41.36N**±.094	**20.02E**±.099	**15**			**14**	**1-2**	
PDG	VII	21 06 37 25.0	41.2N	19.9E	15	2.6L		**¶97vii3209**		
ISC	**VII**	**26 05 34 00.6**±.99	**41.25N**±.084	**20.03E**±.093	**14**			**13**	**0-2**	
PDG	VII	26 05 33 59.6	41.2N	20.0E	14	2.6L		**¶97vii3922**		
ISC	**VII**	**26 23 25 24.4**±.71	**41.26N**±.057	**20.07E**±.076	**9**			**14**	**0-2**	
PDG	VII	26 23 25 26.1	41.2N	19.9E	9	2.8L		**¶97vii4028**		
ISC	**VII**	**31 09 17 52.9**±.75	**41.98N**±.059	**20.28E**±.068	**8**			**13**	**1-2**	
TIR	VII	31 09 17 51.8	42.02N	20.33E	8	2.3L		**¶97vii4710**		
PDG	VII	31 09 17 52.4	41.9N	20.4E	10	2.3L				
ISC	**VII**	**31 13 10 34**±2.2	**41.1N**±.11	**20.3E**±.20	**0**			**6**	**1-2**	
THE	VII	31 13 10 37.3	41.0N	20.4E	0			**¶97vii4733**		
ISC	**VIII**	**03 00 11 46.0**±.91	**41.24N**±.062	**20.0E**±.12	**10**			**13**	**0-2**	
TIR	VIII	03 00 11 43.3	41.32N	20.30E	10	2.3L		**¶97viii0275**		
PDG	VIII	03 00 11 45.8	41.2N	20.0E	11	2.5L				
ISC	**VIII**	**03 06 00 58.3**±.79	**41.36N**±.074	**20.01E**±.092	**14**			**16**	**0-2**	
PDG	VIII	03 06 00 57.9	41.3N	19.9E	14	2.8L		**¶97viii0313**		
ISC	**VIII**	**03 06 21 45.3**±.80	**41.30N**±.074	**20.02E**±.096	**14**			**14**	**1-2**	
PDG	VIII	03 06 21 44.9	41.2N	19.9E	14	2.6L		**¶97viii0317**		
ISC	**VIII**	**03 06 37 37.4**±.42	**41.27N**±.023	**19.89E**±.025	**27**±4.7	**3.7b**,2.6s		**165**	**0-92**	
PDG	VIII	03 06 37 35.1	41.1N	20.1E	9	4.1L,4.1D		**¶97viii0322**		
TIR	VIII	03 06 37 35.6	41.19N	20.10E	5	3.8L				
ATH	VIII	03 06 37 36.0	41.52N	19.70E	38	4.4L				
THE	VIII	03 06 37 37.8	41.2N	20.0E	1	3.6L				
LDG	VIII	03 06 37 39.0	41.6N	20.0E		4.0L				
NEIC	VIII	03 06 37 39.5	41.36N	19.88E	60	3.4b				
EIDC	VIII	03 06 37 42.6	41.4N	19.9E	60	3.5b,3.1s				
STR	VIII	03 06 38 09.4	42.63N	17.43E	17	4.0L				
TIR	Felt I=IV MSK Elbasani and Tirana									
ISC	**VIII**	**04 16 27 06.9**±.69	**41.07N**±.061	**19.96E**±.084	**16**			**16**	**0-2**	
TIR	VIII	04 16 27 05.0	41.11N	19.97E	16	2.7L		**¶97viii0521**		
PDG	VIII	04 16 27 10.5	41.3N	19.7E	14	2.8L				
ISC	**VIII**	**04 20 02 34**±1.3	**41.2N**±.11	**20.0E**±.13	**9**			**16**	**0-2**	
PDG	VIII	04 20 02 34.8	41.2N	19.9E	9	2.6L		**¶97viii0540**		
ISC	**VIII**	**04 22 52 10**±4.1	**41.9N**±.20	**19.7E**±.19	**10**			**9**	**0-1**	
PDG	VIII	04 22 52 09.5	41.8N	19.8E	10	1.9L		**¶97viii0569**		
ISC	**VIII**	**05 09 33 10**±1.8	**42.0N**±.10	**19.3E**±.12	**10**			**7**	**0-1**	
PDG	VIII	05 09 33 09.9	41.9N	19.4E	10	1.7L		**¶97viii0647**		
ISC	**VIII**	**08 08 27 41**±2.2	**41.3N**±.17	**19.9E**±.14	**14**			**11**	**1-2**	
PDG	VIII	08 08 27 42.1	41.3N	19.8E	14	2.5L		**¶97viii1075**		
ISC	**VIII**	**09 04 17 21.0**±.82	**40.61N**±.070	**19.26E**±.071	**23**			**21**	**0-4**	
TIR	VIII	09 04 17 20.5	40.67N	19.42E	23	3.9L		**¶97viii1201**		
PDG	VIII	09 04 17 22.7	40.9N	19.5E	11	3.0L				
ISC	**VIII**	**14 11 41 21.9**±.90	**41.28N**±.085	**20.1E**±.10	**0**±9.8			**14**	**0-2**	
TIR	VIII	14 11 41 21.4	41.42N	20.20E	5	2.3L		**¶97viii2052**		
PDG	VIII	14 11 41 22.5	41.1N	19.9E	16	2.3L				
ISC	**VIII**	**15 16 41 52.1**±.46	**41.07N**±.040	**20.29E**±.066	**14**			**21**	**0-2**	
PDG	VIII	15 16 41 47.1	40.8N	20.2E	5	2.8L		**¶97viii2242**		
ATH	VIII	15 16 41 50.4	41.29N	20.47E	5					
TIR	VIII	15 16 41 50.4	41.07N	20.28E	14	2.4L				
ISC	**VIII**	**15 17 49 35.0**±.37	**41.32N**±.035	**20.94E**±.040	**5**			**32**	**0-4**	
TIR	VIII	15 17 49 33.5	41.34N	20.85E	5	2.8L		**¶97viii2245**		
SKO	VIII	15 17 49 34.9	41.32N	20.94E	5					
PDG	VIII	15 17 49 36.1	41.4N	20.9E	9	3.1L				
THE	VIII	15 17 49 38.8	41.2N	21.1E	2	3.0L				
ATH	VIII	15 17 49 45.0	40.80N	21.17E	5	3.2D				
ISC	**VIII**	**17 06 24 39.5**±.34	**41.30N**±.032	**20.03E**±.041	**5**			**37**	**0-4**	
TIR	VIII	17 06 24 37.6	41.24N	20.11E	5	3.3L		**¶97viii2497**		
PDG	VIII	17 06 24 38.9	41.2N	19.9E	15	3.3L				
ATH	VIII	17 06 24 43.3	41.22N	20.30E	5	3.3D				
THE	VIII	17 06 24 43.6	41.2N	20.3E	10	3.3L				
ISC	**VIII**	**17 20 29 57.9**±.89	**40.60N**±.035	**19.95E**±.037	**0**±7.8			**40**	**0-8**	
TIR	VIII	17 20 29 57.8	40.61N	20.03E	9	3.1L		**¶97viii2585**		
THE	VIII	17 20 29 59.3	40.6N	19.7E	19	3.1L				
PDG	VIII	17 20 30 00.1	40.7N	19.4E	10	3.3L				
ATH	VIII	17 20 30 02.4	40.38N	20.08E	20	3.4D				
TIR	Felt I=III–IV MSK Berati and weakly at Tepelena									
ISC	**VIII**	**26 07 08 44.3**±.91	**41.01N**±.034	**20.25E**±.039	**1**±7.8			**43**	**0-18**	
PDG	VIII	26 07 08 43.4	40.8N	20.1E	6	3.6L		**¶97viii3801**		
TIR	VIII	26 07 08 44.0	41.04N	20.30E	19	3.2L				
ATH	VIII	26 07 08 44.1	41.11N	20.17E	5	3.6D				
THE	VIII	26 07 08 46.7	41.0N	20.3E	3	3.2L				
ISC	**VIII**	**26 07 25 09.7**±.37	**41.16N**±.035	**20.33E**±.044	**3**			**33**	**0-4**	
PDG	VIII	26 07 25 08.3	41.0N	20.3E	3	3.5L,3.3D		**¶97viii3804**		
TIR	VIII	26 07 25 09.8	41.23N	20.32E	17	3.2L				
ATH	VIII	26 07 25 10.2	41.30N	20.37E	5	3.4D				
THE	VIII	26 07 25 12.0	41.1N	20.4E	2	3.0L				
ISC	**IX**	**01 19 51 43.7**±.83	**40.63N**±.053	**19.63E**±.082	**12**±7.9			**15**	**0-5**	
TIR	IX	01 19 51 43.4	40.58N	19.75E	8	2.9L		**¶97ix0156**		
ATH	IX	01 19 51 47.7	40.51N	19.80E	16	3.0D				
ISC	**IX**	**03 19 59 21.0**±.48	**41.16N**±.046	**20.92E**±.051	**8**			**22**	**0-2**	
SKO	IX	03 19 59 20.8	41.18N	20.89E	7			**¶97ix0473**		
THE	IX	03 19 59 21.5	41.2N	20.9E	0	2.4L				
PDG	IX	03 19 59 22.2	41.2N	20.8E	9	2.8L				
TIR	IX	03 19 59 24.4	41.30N	20.58E	8	2.4L				
ISC	**IX**	**05 16 07 34**±1.0	**40.06N**±.052	**19.7E**±.12	**12**			**14**	**0-3**	
THE	IX	05 16 07 33.9	40.1N	19.7E	0	2.5L		**¶97ix0767**		
TIR	IX	05 16 07 34.0	40.12N	19.87E	12	2.8L				
ATH	IX	05 16 07 35.2	40.07N	19.79E	5	2.9D				
ISC	**IX**	**11 20 45 01**±1.5	**41.3N**±.12	**19.6E**±.12	**17**			**17**	**0-2**	
PDG	IX	11 20 45 01.7	41.4N	19.4E	17	2.3L		**¶97ix1731**		
ISC	**IX**	**13 17 17 57.7**±.33	**41.01N**±.030	**19.83E**±.040	**20**			**44**	**0-6**	
TIR	IX	13 17 17 56.5	41.03N	19.84E	20	2.9L		**¶97ix2000**		
PDG	IX	13 17 17 58.4	41.1N	19.6E	15	3.1L				
THE	IX	13 17 17 58.8	41.0N	20.0E	7	2.9L				
ATH	IX	13 17 17 59.3	40.94N	19.98E	3	3.3D				
ROM	IX	13 17 18 09.5	41.1N	18.6E	10	3.0D				
ISC	**IX**	**16 04 48 16.3**±.71	**41.57N**±.054	**20.15E**±.059	**10**			**15**	**0-2**	
PDG	IX	16 04 48 15.3	41.5N	20.1E	10	3.0L		**¶97ix2333**		
TIR	IX	16 04 48 16.0	41.59N	20.09E	22	2.9L				
ISC	**IX**	**16 04 52 45.2**±.63	**41.61N**±.049	**20.17E**±.061	**7**			**17**	**0-2**	
PDG	IX	16 04 52 45.2	41.5N	20.2E	7	2.6L		**¶97ix2334**		
TIR	IX	16 04 52 51.1	41.67N	19.71E	8	2.5L				
ISC	**IX**	**16 09 41 23.3**±.70	**41.63N**±.053	**20.11E**±.058	**8**			**13**	**0-2**	
PDG	IX	16 09 41 22.7	41.5N	20.2E	8	2.3L		**¶97ix2363**		
TIR	IX	16 09 41 23.3	41.61N	20.07E	17	2.6L				
ISC	**IX**	**16 09 44 23.9**±.75	**41.61N**±.053	**20.08E**±.069	**10**			**15**	**0-2**	
PDG	IX	16 09 44 23.7	41.6N	20.2E	10	2.5L		**¶97ix2364**		
TIR	IX	16 09 44 23.8	41.60N	20.06E	19	2.3L				
ISC	**IX**	**23 20 42 38.8**±.92	**41.05N**±.064	**20.35E**±.085	**0**			**10**	**0-2**	
THE	IX	23 20 42 41.2	41.0N	20.4E	0	2.5L		**¶97ix3473**		
ISC	**IX**	**24 02 17 13**±2.0	**41.0N**±.10	**20.4E**±.19	**0**			**8**	**0-2**	
THE	IX	24 02 17 13.4	41.0N	20.3E	0	2.6L		**¶97ix3512**		
ISC	**IX**	**25 19 35 47**±5.2	**42.0N**±.30	**19.2E**±.11	**14**			**9**	**0-2**	
PDG	IX	25 19 35 47.3	41.9N	19.2E	14	2.1L		**¶97ix3783**		
ISC	**X**	**01 01 52 32**±1.2	**41.26N**±.096	**20.18E**±.072	**8**			**14**	**0-2**	
TIR	X	01 01 52 31.1	41.22N	20.13E	8	2.2L		**¶97x0008**		
PDG	X	01 01 52 32.7	41.3N	20.2E	8	2.6L				
ISC	**X**	**03 22 55 27**±1.3	**41.9N**±.11	**19.3E**±.13	**26**±10			**9**	**0-1**	
PDG	X	03 22 55 29.5	42.0N	19.3E	15	1.8L		**¶97x0542**		
ISC	**X**	**05 17 26 14**±3.4	**41.1N**±.22	**19.7E**±.12	**1**			**11**	**1-2**	
PDG	X	05 17 26 13.5	41.0N	19.4E	1	2.3L		**¶97x0895**		
ISC	**X**	**11 19 50 04.6**±.75	**40.66N**±.027	**19.77E**±.030	**0**±6.1	**3.9b**		**104**	**0-123**	
NEIC	X	11 19 50 00.4	40.19N	19.54E	5	3.8b		**¶97x1931**		
EIDC	X	11 19 50 02.7	40.3N	19.9E	0	3.9b,4.0L				
ROM	X	11 19 50 03.1	40.6N	20.4E	10	4.2D				
TIR	X	11 19 50 04.9	40.64N	19.95E	4	3.7L				
PDG	X	11 19 50 05.9	40.6N	19.7E	11	4.1L,4.1D				
THE	X	11 19 50 06.5	40.7N	19.8E	0	3.8L				
LDG	X	11 19 50 10.4	41.7N	20.5E		4.2L				
ATH	X	11 19 50 13.3	40.48N	20.34E	22	4.0L				
NEIC	Less reliable solution.									
TIR	Felt I=IV MSK department of Berati									
ISC	**X**	**15 04 11 54.9**±.65	**40.12N**±.027	**19.86E**±.035	**1**±5.5	3.7b		**66**	**0-22**	
PDG	X	15 04 11 49.0	39.5N	19.4E	10	3.8L		**¶97x2560**		
ATH	X	15 04 11 54.7	40.18N	19.75E	5	4.2L				
NEIC	X	15 04 11 54.8	40.15N	19.76E	10					
TIR	X	15 04 11 55.4	40.12N	19.94E	11	3.6L				
THE	X	15 04 11 56.0	40.1N	19.8E	0	3.7L				
ISC	**X**	**17 19 28 53.3**±.73	**41.18N**±.051	**20.27E**±.074	**1**			**15**	**0-3**	
THE	X	17 19 28 54.3	41.1N	20.2E	1			**¶97x3048**		
ATH	X	17 19 29 07.0	40.64N	21.23E	10	3.1D				
ISC	**X**	**20 04 09 23**±1.6	**41.99N**±.097	**19.21E**±.098	**12**			**9**	**0-1**	
PDG	X	20 04 09 22.9	41.9N	19.2E	12	1.6L		**¶97x3433**		
ISC	**X**	**21 03 49 36.4**±.70	**41.09N**±.051	**20.14E**±.074	**9**			**17**	**0-2**	
TIR	X	21 03 49 35.7	41.10N	20.14E	9	2.8L		**¶97x3595**		
PDG	X	21 03 49 37.8	41.1N	20.0E	3	2.8L				
ISC	**X**	**23 08 29 53.0**±.43	**41.11N**±.037	**20.44E**±.059	**16**			**27**	**0-3**	
TIR	X	23 08 29 50.2	41.17N	20.36E	16	2.8L		**¶97x3950**		
THE	X	23 08 29 51.1	41.2N	20.3E	0					

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
PDG	X	23 08 29 52.8		41.1N	20.2E	7	2.8L		
ATH	X	23 08 30 03.8		40.62N	20.94E	10	3.1D		
ISC	**X**	**23 18 18 54**±2.1		**41.10N**±.095	**20.5E**±.18	**2**		**8**	**0-2**
THE	X	23 18 18 54.3		41.2N	20.4E	2			¶97x4043
ISC	**X**	**30 01 33 27.6**±.65		**41.06N**±.040	**20.26E**±.071	**3**		**19**	**0-3**
TIR	X	30 01 33 26.9		41.03N	20.31E	0	2.7L		¶97x4972
THE	X	30 01 33 28.4		41.1N	20.2E	3	2.7L		
ATH	X	30 01 33 39.2		40.64N	20.89E	23	3.2D		
SKO	**X**	**30 19 23 48.0**		**41.37N**	**20.70E**	**17**			¶97x5079
SKO	**X**	**30 19 34 03.0**		**41.37N**	**20.71E**	**19**			¶97x5080
ISC	**X**	**30 21 23 34**±2.3		**41.34N**±.095	**20.8E**±.29	**2**±23		**6**	**0-2**
THE	X	30 21 23 34.3		41.4N	20.8E	1			¶97x5090
ISC	**X**	**30 21 37 26.5**±.32		**41.37N**±.033	**20.75E**±.039	**8**		**42**	**0-8**
SKO	X	30 21 37 25.1		41.37N	20.70E	17			¶97x5092
TIR	X	30 21 37 25.2		41.39N	20.80E	8	3.3L		
THE	X	30 21 37 27.9		41.4N	20.8E	0	3.2L		
PDG	X	30 21 37 28.0		41.5N	20.7E	4	3.6L,3.5D		
ATH	X	30 21 37 40.7		40.63N	21.17E	10	3.3D		
ISC	**X**	**30 22 17 50.3**±.80		**41.35N**±.056	**20.70E**±.095	**2**±16		**11**	**0-2**
TIR	X	30 22 17 50.0		41.35N	20.69E	18			¶97x5095
THE	X	30 22 17 53.3		41.3N	20.8E	5			
ISC	**X**	**31 00 51 39**±2.0		**41.34N**±.086	**20.9E**±.19	**1**		**6**	**0-2**
THE	X	31 00 51 38.9		41.4N	20.8E	1			¶97x5113
ISC	**X**	**31 01 41 46.2**±.46		**41.42N**±.045	**20.74E**±.053	**9**		**24**	**0-2**
TIR	X	31 01 41 45.2		41.40N	20.78E	9	2.9L		¶97x5114
THE	X	31 01 41 47.6		41.4N	20.8E	1	2.7L		
PDG	X	31 01 41 47.8		41.5N	20.7E	5	3.1L		
ISC	**X**	**31 02 57 08.9**±.49		**41.41N**±.051	**20.75E**±.056	**9**		**21**	**0-2**
PDG	X	31 02 57 08.8		41.4N	20.8E	9	3.1L		¶97x5117
THE	X	31 02 57 09.5		41.6N	20.9E	1			
ISC	**X**	**31 02 58 26**±3.5		**41.38N**±.089	**20.7E**±.32	**2**		**8**	**0-2**
THE	X	31 02 58 29.0		41.3N	20.9E	2			¶97x5118
ISC	**X**	**31 04 57 08.8**±.41		**41.44N**±.041	**20.82E**±.053	**14**		**29**	**0-3**
SKO	X	31 04 57 06.9		41.38N	20.69E	17			¶97x5130
TIR	X	31 04 57 06.9		41.38N	20.75E	14			
ATH	X	31 04 57 07.0		41.78N	21.01E	29	3.4D		
PDG	X	31 04 57 08.0		41.3N	20.7E	7	3.3L		
THE	X	31 04 57 09.1		41.4N	20.9E	1	3.1L		
ISC	**X**	**31 05 40 57.0**±.44		**41.49N**±.040	**20.94E**±.052	**9**		**24**	**0-3**
PDG	X	31 05 40 55.4		41.4N	20.8E	9	3.1L		¶97x5136
THE	X	31 05 41 01.4		41.3N	21.1E	1	2.5L		
ATH	X	31 05 41 11.6		40.74N	21.42E	10	3.1D		
ISC	**XI**	**11 11 42 00.1**±.47		**41.66N**±.042	**20.69E**±.049	**0**		**20**	**0-2**
TIR	XI	11 11 41 59.4		41.71N	20.67E	0	2.7L		¶97xi1778
SKO	XI	11 11 42 00.1		41.65N	20.63E	17			
THE	XI	11 11 42 00.3		41.7N	20.6E	0	2.8L		
PDG	XI	11 11 42 02.3		41.7N	20.6E	9	3.1L		
SKO	**XI**	**11 21 04 20.6**		**41.68N**	**20.58E**	**17**			¶97xi1872
ISC	**XI**	**27 12 52 56**±3.2		**41.0N**±.26	**19.5E**±.21	**20**		**12**	**1-2**
PDG	XI	27 12 53 01.1		41.4N	19.4E	20	2.6L		¶97xi4859
ISC	**XII**	**01 17 55 41**±1.1		**40.29N**±.059	**19.6E**±.11	**8**		**12**	**0-2**
ATH	XII	01 17 55 37.6		40.32N	19.15E	8	3.2D		¶97xii0120
ISC	**XII**	**11 14 42 55.6**±.52		**41.82N**±.048	**20.78E**±.054	**15**		**19**	**0-2**
SKO	XII	11 14 42 54.5		41.88N	20.79E	15			¶97xii2584
PDG	XII	11 14 42 56.2		41.9N	20.8E	9	2.8L		
THE	XII	11 14 42 56.4		41.8N	20.8E	0	2.4L		
ISC	**XII**	**11 23 52 36.0**±.64		**41.02N**±.046	**20.76E**±.078	**10**		**18**	**0-5**
ATH	XII	11 23 52 53.3		39.85N	20.45E	10			¶97xii2660
ISC	**XII**	**13 20 01 53.3**±.31		**41.92N**±.034	**20.31E**±.038	**10**		**46**	**0-9**
PDG	XII	13 20 01 51.4		41.9N	20.4E	10	3.3L,3.1D		¶97xii3008
TIR	XII	13 20 01 53.3		41.86N	20.19E	26	3.0L		
NEIC	XII	13 20 01 54.9		41.85N	20.42E	33			
THE	XII	13 20 01 58.1		41.8N	20.7E	0	2.9L		
NEIC	Less reliable solution.								
ISC	**XII**	**17 04 30 56**±2.8		**42.0N**±.16	**19.5E**±.14	**14**		**8**	**0-1**
PDG	XII	17 04 30 55.7		41.9N	19.5E	14	1.9L		¶97xii3549
ISC	**XII**	**25 11 42 31.8**±.37		**41.58N**±.034	**20.26E**±.043	**4**		**30**	**0-4**
THE	XII	25 11 42 33.0		41.6N	20.3E	4	2.7L		¶97xii4919
PDG	XII	25 11 42 33.3		41.6N	20.2E	8	2.8L		
ATH	XII	25 11 42 56.7		40.31N	21.17E	10			
ISC	**XII**	**28 08 42 52**±1.1		**40.10N**±.041	**19.8E**±.11	**5**		**20**	**0-3**
ATH	XII	28 08 42 51.6		40.21N	19.76E	5	3.3D		¶97xii5426
THE	XII	28 08 42 54.3		40.1N	19.9E	3			
TIR	XII	28 08 42 55		40.23N	20.16E	22	2.6L		
ISC	**XII**	**30 18 49 42.7**±.72		**41.04N**±.032	**19.85E**±.043	**3**±6.2		**46**	**0-9**
NEIC	XII	30 18 49 39.5		40.72N	19.72E	10			¶97xii5775
TIR	XII	30 18 49 41.3		40.93N	19.65E	5	3.1L		
PDG	XII	30 18 49 43.7		41.0N	19.7E	10	3.5L,3.4D		
THE	XII	30 18 49 46.3		41.1N	20.0E	16	2.9L		
ATH	XII	30 18 49 47.5		40.98N	19.96E	31	3.4D		
NEIC	Less reliable solution.								

(392) Greece-Albania border region.

ISC	**VII**	**03 09 31 10**±1.1		**40.77N**±.057	**20.8E**±.11	**0**		**10**	**0-2**
THE	VII	03 09 31 08.2		40.9N	20.5E	0	2.7L		¶97vii0385
ISC	**VII**	**07 02 34 47.7**±.47		**40.95N**±.042	**20.24E**±.069	**2**		**22**	**0-3**
TIR	VII	07 02 34 45.7		40.99N	20.34E	2	2.7L		¶97vii0977
THE	VII	07 02 34 47.7		41.1N	20.1E	0	2.9L		
PDG	VII	07 02 34 48.0		40.9N	20.1E	9	3.0L		
ATH	VII	07 02 34 48.2		41.19N	20.56E	5	3.2D		
ATH	**VII**	**09 03 10 38.6**		**39.88N**	**20.80E**	**6**	**2.8D**		¶97vii1281
THE	VII	09 03 10 37.6		39.9N	20.9E	1	2.3L		
THE	**VII**	**11 06 37 36.8**		**40.0N**	**20.5E**	**10**			¶97vii1632
ISC	**VII**	**11 08 34 45.2**±.74		**39.97N**±.051	**20.56E**±.076	**5**		**16**	**0-3**
ATH	VII	11 08 34 44.1		40.11N	20.57E	5	2.9D		¶97vii1649
THE	VII	11 08 34 46.4		40.0N	20.6E	4	2.6L		
ISC	**VII**	**11 09 55 38**±3.3		**40.1N**±.14	**20.4E**±.32	**10**		**4**	**1-2**
THE	VII	11 09 55 40.2		40.0N	20.5E	10	2.4L		¶97vii1660
ISC	Poorly determined								
ISC	**VII**	**11 10 08 46**±1.2		**39.96N**±.062	**20.56E**±.083	**2**±12		**14**	**0-3**
ATH	VII	11 10 08 46.4		40.03N	20.55E	5	2.8D		¶97vii1664
THE	VII	11 10 08 47.4		40.0N	20.6E	0	2.5L		
ISC	**VII**	**11 10 25 28.7**±.50		**39.95N**±.040	**20.53E**±.050	**5**		**21**	**0-3**
ATH	VII	11 10 25 29.1		39.91N	20.54E	5	3.0D		¶97vii1670
THE	VII	11 10 25 30.0		39.9N	20.6E	2	2.9L		
ISC	**VII**	**11 10 40 15**±1.5		**39.96N**±.095	**20.6E**±.18	**1**		**6**	**0-2**
THE	VII	11 10 40 17.1		39.9N	20.6E	1	2.4L		¶97vii1672
ISC	**VII**	**11 10 45 15.4**±.70		**39.94N**±.070	**20.42E**±.086	**38**		**14**	**0-2**
TIR	VII	11 10 45 12.4		39.86N	20.60E	38	2.8L		¶97vii1673
ATH	VII	11 10 45 13.7		40.02N	20.59E	5	2.9D		
THE	VII	11 10 45 14.7		40.0N	20.6E	0	2.5L		
ISC	**VII**	**11 10 54 45.4**±.77		**39.96N**±.055	**20.54E**±.081	**5**		**16**	**0-3**
ATH	VII	11 10 54 46.0		40.00N	20.55E	5	2.9D		¶97vii1676
THE	VII	11 10 54 46.2		40.0N	20.5E	1	2.7L		
ISC	**VII**	**11 14 07 42**±1.3		**40.01N**±.077	**20.6E**±.16	**0**		**7**	**1-2**
THE	VII	11 14 07 43.1		40.0N	20.5E	0	2.3L		¶97vii1694
ISC	**VII**	**13 08 32 37**±1.7		**39.4N**±.16	**20.8E**±.11	**10**		**4**	**0-1**
THE	VII	13 08 32 37.9		39.4N	20.8E	10	2.4L		¶97vii1947
ISC	Poorly determined								
ISC	**VII**	**13 14 42 07.2**±.87		**39.43N**±.069	**20.16E**±.077	**5**	3.4b	**14**	**0-22**
ATH	VII	13 14 42 07.8		39.37N	20.12E	5	3.1D		¶97vii1979
ISC	**VII**	**14 11 20 12.3**±.92		**39.91N**±.067	**19.70E**±.091	**13**		**15**	**0-3**
ATH	VII	14 11 20 11.4		40.01N	19.55E	13	3.0D		¶97vii2116
THE	VII	14 11 20 13.0		40.0N	19.8E	0	2.8L		
ISC	**VII**	**17 16 43 14.1**±.84		**40.51N**±.045	**20.72E**±.089	**2**±10		**14**	**0-2**
ATH	VII	17 16 43 12.6		40.63N	20.60E	5	2.9D		¶97vii2614
THE	VII	17 16 43 15.6		40.5N	20.8E	5	2.5L		
ISC	**VII**	**30 03 03 41**±1.7		**39.21N**±.074	**20.5E**±.20	**12**±27		**8**	**0-2**
ATH	VII	30 03 03 41.3		39.19N	20.48E	5	2.8D		¶97vii4523
THE	VII	30 03 03 41.8		39.2N	20.5E	2	2.5L		
ISC	**VIII**	**03 08 22 06**±2.7		**39.3N**±.19	**20.5E**±.17	**13**		**7**	**0-3**
THE	VIII	03 08 22 06.0		39.3N	20.5E	13	2.8L		¶97viii0335
ISC	**VIII**	**04 02 50 00**±1.1		**39.7N**±.11	**20.7E**±.12	**2**		**5**	**0-2**
THE	VIII	04 02 50 00.7		39.7N	20.7E	2			¶97viii0448
ISC	**VIII**	**07 23 57 40.2**±.35		**40.90N**±.034	**20.20E**±.038	**5**		**45**	**1-6**
TIR	VIII	07 23 57 39.3		40.98N	20.36E	5	3.2L		¶97viii1016
PDG	VIII	07 23 57 40.8		40.9N	20.1E	8	3.1L		
THE	VIII	07 23 57 46.1		40.8N	20.6E	2	2.8L		
ATH	VIII	07 23 57 47.7		40.72N	20.48E	35	3.4D		
ATH	**VIII**	**08 05 09 36.4**		**39.45N**	**20.17E**	**5**	**2.9D**		¶97viii1059
ISC	**VIII**	**08 16 23 14.0**±.54		**39.88N**±.043	**20.67E**±.055	**5**		**17**	**0-3**
ATH	VIII	08 16 23 15.1		39.90N	20.74E	5	3.2D		¶97viii1133
THE	VIII	08 16 23 15.6		39.9N	20.7E	1	2.5L		
ISC	**VIII**	**09 21 09 10.8**±.81		**39.25N**±.056	**20.22E**±.044	**22**±6.7	**3.6b**	**44**	**0-45**
NEIC	VIII	09 21 09 08.1		39.33N	19.94E	10			¶97viii1307
ATH	VIII	09 21 09 13.2		39.55N	20.31E	5	3.5D		
THE	VIII	09 21 09 15.0		39.5N	20.5E	2	3.1L		
EIDC	VIII	09 21 09 16.6		39.5N	20.0E	72	3.4b		
NEIC	Less reliable solution.								
ISC	**VIII**	**11 06 48 40**±1.4		**39.99N**±.070	**19.9E**±.14	**10**		**9**	**0-3**
ATH	VIII	11 06 48 39.2		40.07N	19.80E	10	2.9D		¶97viii1516
THE	VIII	11 06 48 40.0		40.0N	19.9E	0	2.9L		
ISC	**VIII**	**12 04 39 20**±1.3		**40.26N**±.076	**20.1E**±.14	**10**		**6**	**0-2**
THE	VIII	12 04 39 18.6		40.4N	20.1E	10	3.0L		¶97viii1680
ATH	VIII	12 04 39 24.7		40.04N	20.04E	10	3.0D		
ISC	**VIII**	**19 18 26 17**±1.0		**39.62N**±.085	**21.0E**±.13	**10**		**6**	**0-1**
ATH	VIII	19 18 26 15.3		39.86N	20.91E	10	2.8D		¶97viii2852
ISC	**VIII**	**22 17 36 10.1**±.67		**39.73N**±.057	**20.48E**±.065	**5**		**18**	**0-3**
ATH	VIII	22 17 36 10.8		39.83N	20.50E	5	3.2D		¶97viii3260
THE	VIII	22 17 36 10.9		39.8N	20.5E	2	2.8L		
ISC	**VIII**	**30 06 44 04**±1.9		**39.7N**±.17	**20.5E**±.20	**17**		**4**	**0-2**
THE	VIII	30 06 44 04.3		39.8N	20.4E	17			¶97viii4448
ISC	Poorly determined								
ISC	**IX**	**02 23 32 58**±2.1		**40.83N**±.081	**20.8E**±.12	**8**±16		**8**	**0-2**
									¶97ix0348
ISC	**IX**	**11 20 39 18.0**±.78		**39.67N**±.039	**20.42E**±.037	**5**±6.9	3.8b	**43**	**0-72**
ROM	IX	11 20 39 17.2		39.5N	20.7E	10	3.4D		¶97ix1730
TIR	IX	11 20 39 17.9		39.83N	20.48E	5	3.3L		
ATH	IX	11 20 39 18.4		39.76N	20.42E	8	3.5D		
THE	IX	11 20 39 18.7		39.7N	20.4E	0	3.1L		
ISC	**IX**	**12 09 17 48.0**±.69		**39.25N**±.051	**20.90E**±.062	**4**		**17**	**0-3**
ATH	IX	12 09 17 49.2		39.30N	20.98E	4	3.0D		¶97ix1795
THE	IX	12 09 17 49.5		39.3N	20.9E	0	2.6L		
ISC	**IX**	**14 14 51 36.5**±.74		**39.95N**±.047	**20.73E**±.087	**7**		**13**	**0-2**
THE	IX	14 14 51 37.0		40.0N	20.7E	7	2.3L		¶97ix2134
ATH	IX	14 14 51 38.8		39.67N	21.08E	5	3.0D		
ISC	**IX**	**16 11 40 33**±2.2		**39.40N**±.083	**20.5E**±.22	**10**		**6**	**0-2**
ATH	IX	16 11 40 28.3		39.63N	20.02E	10	3.0D		¶97ix2378
THE	IX	16 11 40 32.8		39.4N	20.4E	2	2.6L		
ATH	**IX**	**18 17 55 51.1**		**39.63N**	**20.27E**	**5**	**2.7D**		¶97ix2694
ISC	**IX**	**19 17 58 32**±1.1		**39.99N**±.053	**19.8E**±.10	**5**		**18**	**0-3**
TIR	IX	19 17 58 31.1		40.08N	19.88E	5	3.0L		¶97ix2824
ATH	IX	19 17 58 34.4		39.93N	19.85E	5	3.1D		
THE	IX	19 17 58 41.0		40.0N	20.3E	0	2.6L		
ISC	**IX**	**22 14 09 58**±3.9		**39.9N**±.11	**19.6E**±.37	**16**		**7**	**0-3**
ATH	IX	22 14 09 56.2		39.77N	19.31E	16	2.8D		¶97ix3292
THE	IX	22 14 09 58.6		39.9N	19.6E	13			
ISC	**IX**	**24 15 27 04.5**±.89		**40.06N**±.067	**20.5E**±.15	**11**±17		**12**	**0-7**
THE	IX	24 15 27 05.3		40.1N	20.5E	10	2.4L		¶97ix3598
ATH	IX	24 15 27 06.1		40.04N	20.48E	5	2.8D		
ISC	**IX**	**24 17 22 02.3**±.83		**39.99N**±.060	**20.67E**±.088	**8**		**12**	**1-2**
THE	IX	24 17 22 01.1		40.1N	20.4E	8	2.3L		¶97ix3609
ISC	**IX**	**24 17 24 04.4**±.49		**40.07N**±.029	**20.47E**±.034	**10**±4.4		**49**	**0-4**
TIR	IX	24 17 24 04.6		40.13N	20.50E	9	3.3L		¶97ix3611
THE	IX	24 17 24 05.3		40.1N	20.5E	7	3.0L		
ATH	IX	24 17 24 05.4		40.10N	20.48E	6	3.3D		
PDG	IX	24 17 24 10.0		40.4N	19.4E	9	3.1L		
ISC	**IX**	**27 08 44 21.5**±.39		**40.95N**±.030	**20.30E**±.050	**11**		**30**	**0-4**
ATH	IX	27 08 44 19.4		41.17N	20.24E	5	3.4D		¶97ix4304
TIR	IX	27 08 44 19.4		40.93N	20.41E	11	3.1L		
PDG	IX	27 08 44 20.7		40.8N	20.2E	10	3.3L		
ISC	**IX**	**29 12 49 35**±1.0		**39.44N**±.095	**20.57E**±.073	**5**		**9**	**0-2**
ATH	IX	29 12 49 32.5		40.10N	20.85E	17	2.8D		¶97ix4950
THE	IX	29 12 49 35.7		39.5N	20.6E	5	3.4L		
ATH	**X**	**04 15 08 45.8**		**39.51N**	**19.51E**	**5**	**3.5D**		¶97x0669
ISC	**X**	**06 09 24 35.5**±.69		**39.05N**±.051	**20.96E**±.072	**5**		**12**	**1-3**
ATH	X	06 09 24 36.4		39.08N	20.89E	5	2.9D		¶97x1025
THE	X	06 09 24 37.1		39.1N	21.0E	3	2.4L		
ISC	**X**	**10 19 42 42.2**±.50		**39.69N**±.040	**19.79E**±.049	**5**		**27**	**0-4**
ATH	X	10 19 42 42.5		39.65N	19.64E	5	3.3D		¶97x1792
THE	X	10 19 42 43.1		39.6N	19.7E	7	2.9L		
TIR	X	10 19 42 44.0		39.84N	19.89E	10	3.2L		
ISC	**X**	**13 08 22 01**±1.1		**40.23N**±.064	**20.6E**±.14	**2**		**8**	**1-2**
THE	X	13 08 22 00.5		40.3N	20.4E	2			¶97x2190
ISC	**X**	**18 15 32 16.7**±.94		**39.36N**±.064	**20.58E**±.085	**5**		**9**	**0-2**
ATH	X	18 15 32 17.4		39.35N	20.58E	5	2.8D		¶97x3186
THE	X	18 15 32 17.7		39.4N	20.6E	0	2.5L		

ISC	**X**	**24 08 39 57.3**±.88	**39.23N**±.055	**20.60E**±.084	**5**		**14**	**0-3**
ATH	X	24 08 39 58.8	39.24N	20.62E	5	3.0D		¶97x4129
THE	X	24 08 39 58.8	39.2N	20.6E	0			
ISC	**X**	**25 06 45 27**±2.8	**40.8N**±.22	**20.2E**±.23	**33**		**8**	**0-2**
								¶97x4287
ISC	**X**	**26 22 53 11.0**±.91	**39.58N**±.069	**20.34E**±.089	**5**		**10**	**0-3**
THE	X	26 22 53 11.9	39.6N	20.3E	0			¶97x4531
ATH	X	26 22 53 12.6	39.62N	20.34E	5	2.8D		
ISC	**XI**	**04 08 43 06**±1.1	**39.49N**±.053	**20.9E**±.11	**70**±20		**16**	**0-3**
ATH	XI	04 08 43 06.9	39.50N	20.91E	59	3.0D		¶97xi0603
ISC	**XI**	**04 13 50 41.5**±.55	**40.03N**±.041	**20.62E**±.063	**10**		**15**	**0-2**
ATH	XI	04 13 50 44.5	39.85N	20.58E	10	3.0D		¶97xi0648
ISC	**XI**	**08 23 49 34.0**±.89	**39.81N**±.060	**20.22E**±.089	**10**		**15**	**0-4**
THE	XI	08 23 49 33.2	39.8N	20.1E	5	2.7L		¶97xi1364
ATH	XI	08 23 49 34.9	39.99N	20.13E	10	3.0D		
ISC	**XI**	**12 16 26 56.9**±.46	**39.22N**±.022	**20.25E**±.017	**21**±3.9	**4.8b,4.5s**	**367**	**1-147**
EIDC	XI	12 16 26 55.1	39.2N	20.4E	0	4.7b,4.4s		¶97xi2011
TIR	XI	12 16 26 55.4	39.10N	20.25E	11	4.5L		
ATH	XI	12 16 26 56.6	39.10N	20.27E	5	4.8L		
BJI	XI	12 16 26 56.6	38.80N	20.51E	33	4.8b,5.1s		
PDG	XI	12 16 26 56.9	39.0N	19.5E	15	4.6L		
NEIC	XI	12 16 26 58.7	39.34N	20.23E	32	4.8b,4.6s		
THE	XI	12 16 26 58.7	39.1N	20.4E	15	4.5L		
MOS	XI	12 16 26 59.7	39.3N	20.2E	33	5.1b,4.4s		

TIR Felt I=III−IV MSK Saranda, Gjirokastra, Tepelena and Vlora

ATH Felt in the regions of Preveza, I=V MCS at Parga, Dryophyto, Anthousa, Kanali, IV at Oropos, Nea− Sampsounta, Mytikas, Ano−Rachi, Koroni, III at Myrsini, Narkissos, Vouvopotamos; on Aitoloakarnania, IV−V at Panaitolio, Pappadatos, Dokimio, IV at Nafpaktos, Grammatikou, Paravola, Megali−Chora, Phyteies, Kainourgio, Analipsi, Lepenou, Thermo, Stamna, Ampelaki, Monastiraki, Vonitsa, Lesinio, Stratos, III−IV at Thyrio, III at Amphilochia, Paliampela, Angelokastro, Galatas, Myrtea, Mataranka; in Arta, IV at Akropotamia, Kommeno, Polydroso, Rachi, Dichomoirio, Kalovatos, Piges, Korphovouni, Mesopyrgos, III−IV at Rokka, Tetrakomo, Kastanea, III at Arta, Koukoulia, Graikiko, Kompoti, Elati, Pantanassa, Kampi, Ammotopos; in Thesprotia, IV at Syvota, Karvounari, Parapotamos, Kastri, Agios−Vlassios, Zervochori, Neochori, III−IV at Asprokklisi, III at Graikochori, Sagiada, Kestrini; in Trikala, IV at Stournaraika, Gomphoi, III at Kastraki, Neochori, Theopetra, Phiki, Vassiliki, Valtino, Megala−Kalyvia.

ATH Felt in the regions of Karditsa, I=IV MCS at Anavra, Artessiano, III at Sophades, Mouzaki, Drakotrypa, Mavrommati, Mataranka; in Evrytania, III at Raptopoulo, Phourna; in Ioannina, III at Zitsa, Megalo−Peristeri; and on the Islands of Ithaka, IV−V at Ithaka; on Kerkyra, IV at Ano−Korakiana, Kavvadades, Pagoi, III at Peroulades, Chlomos, Liapades, Agios−Matthaios, Velonades, Sokraki, Agioi−Deka; on Paxoi, IV at Paxoi; on Lefkada, III at Exantheia; on Kephallonia, III at Argostoli.

NEIC $M_{L4.8(ROM)}$

NEIC Felt in northwestern Greece.

ISC	**XI**	**12 16 58 57.0**±.95	**39.06N**±.047	**20.4E**±.11	**5**		**18**	**1-3**
ATH	XI	12 16 58 57.7	39.12N	20.40E	5	3.2D		¶97xi2012
ISC	**XI**	**12 19 32 15**±1.6	**39.20N**±.090	**20.3E**±.12	**7**±18		**6**	**1-2**
ATH	XI	12 19 32 15.8	39.18N	20.28E	5	3.0D		¶97xi2025
ISC	**XI**	**12 23 47 04.3**±.80	**39.07N**±.047	**20.30E**±.084	**5**	3.3b	**28**	**1-23**
ATH	XI	12 23 47 05.4	39.12N	20.37E	5	3.9L		¶97xi2048
ISC	**XI**	**13 13 26 45**±1.3	**39.05N**±.074	**20.2E**±.15	**5**		**11**	**1-3**
ATH	XI	13 13 26 45.0	39.09N	20.21E	5	3.2D		¶97xi2142
ISC	**XI**	**13 20 01 23**±3.5	**39.3N**±.14	**20.6E**±.32	**5**		**6**	**0-3**
ATH	XI	13 20 01 17.8	39.09N	20.12E	5	3.2D		¶97xi2186
ISC	**XI**	**14 16 53 13.8**±.63	**39.40N**±.050	**20.98E**±.060	**12**		**18**	**1-3**
THE	XI	14 16 53 13.2	39.4N	21.0E	0	2.8L		¶97xi2322
ATH	XI	14 16 53 16.0	39.39N	21.05E	12	3.1D		
ISC	**XI**	**16 16 44 41**±1.1	**39.4N**±.11	**20.3E**±.13	**5**		**7**	**0-3**
ATH	XI	16 16 44 40.9	39.53N	20.38E	5	3.1D		¶97xi2672
ISC	**XI**	**17 23 03 35**±1.2	**39.19N**±.080	**20.3E**±.14	**5**		**5**	**1-2**
ATH	XI	17 23 03 36.7	39.21N	20.31E	5	2.9D		¶97xi2873
ISC	**XI**	**25 06 17 50.4**±.44	**40.27N**±.027	**20.10E**±.026	**22**±4.8	**4.1b**	**109**	**0-123**
PDG	XI	25 06 17 46.9	39.9N	19.6E	14	4.0L,3.9D		¶97xi4457
NEIC	XI	25 06 17 47.6	40.33N	20.25E	10	4.0b		
EIDC	XI	25 06 17 47.8	40.3N	20.3E	0	4.1b,4.1L		
TIR	XI	25 06 17 49.0	40.28N	20.29E	0	4.0L		
ATH	XI	25 06 17 50.3	40.22N	20.21E	5	4.4L		
THE	XI	25 06 17 51.4	40.3N	20.1E	11	3.7L		

TIR Felt I=IV−V MSK Department of Permeti, II−IV Gjirokastra, Tepelena

ATH	**XI**	**26 09 10 48.2**	**39.00N**	**19.34E**	**10**	**4.3D**		**¶97xi4662**
ISC	**XI**	**29 00 21 11.3**±.76	**39.45N**±.029	**20.09E**±.027	**6**±5.8	**4.5b**	**96**	**0-31**
TIR	XI	29 00 21 10.5	39.39N	20.20E	6	4.0L		¶97xi5162
PDG	XI	29 00 21 11.4	39.3N	19.7E	12	3.8L		
ATH	XI	29 00 21 12.0	39.41N	20.08E	4	4.1L		
THE	XI	29 00 21 12.3	39.3N	20.1E	3	3.7L		
NEIC	XI	29 00 21 15.0	39.48N	20.08E	71	4.4b		
ATH	**XI**	**29 06 47 27.5**	**39.42N**	**20.15E**	**5**	**3.3D**		**¶97xi5215**
ATH	**XI**	**30 03 50 50.9**	**40.01N**	**20.41E**	**5**	**2.8D**		**¶97xi5358**
ISC	**XII**	**04 14 01 56**±1.8	**39.18N**±.067	**20.2E**±.19	**10**		**11**	**0-3**
ATH	XII	04 14 01 51.5	39.38N	19.88E	10	3.2D		¶97xii0624
THE	XII	04 14 01 56.8	39.2N	20.2E	5			
ISC	**XII**	**06 01 22 41**±1.2	**40.11N**±.057	**20.2E**±.12	**10**		**17**	**0-3**
THE	XII	06 01 22 42.3	40.1N	20.2E	10	2.8L		¶97xii1192
ISC	**XII**	**07 22 44 17**±1.0	**40.84N**±.062	**20.95E**±.091	**0**		**10**	**0-2**
THE	XII	07 22 44 17.5	40.9N	20.9E	0	2.4L		¶97xii1800
ISC	**XII**	**07 23 24 00**±1.0	**40.86N**±.064	**20.98E**±.089	**0**		**8**	**0-1**
THE	XII	07 23 23 59.6	40.9N	20.9E	0	2.4L		¶97xii1809
ISC	**XII**	**08 02 41 58.8**±.57	**40.83N**±.040	**20.92E**±.058	**8**		**20**	**0-2**
TIR	XII	08 02 41 57	40.67N	20.68E	8	2.4L		¶97xii1845
ATH	XII	08 02 41 58.2	41.02N	21.09E	5	3.2D		
THE	XII	08 02 41 59.9	40.8N	20.9E	5	2.7L		
ISC	**XII**	**08 15 38 55**±1.1	**40.91N**±.076	**20.9E**±.10	**11**±11		**8**	**0-1**
THE	XII	08 15 38 55.4	40.9N	20.9E	0			¶97xii1951
ISC	**XII**	**09 04 27 19**±1.1	**40.83N**±.068	**20.9E**±.11	**0**		**6**	**0-2**
THE	XII	09 04 27 19.1	41.0N	20.9E	0			¶97xii2100
ISC	**XII**	**09 09 52 53.4**±.74	**39.16N**±.070	**20.22E**±.056	**65**±20		**34**	**0-7**
PDG	XII	09 09 52 53.6	39.5N	20.2E	9	3.3L		¶97xii2147
THE	XII	09 09 52 56.7	39.2N	20.7E	5	3.2L		
ATH	XII	09 09 53 00.9	39.21N	21.22E	55	3.5D		
ISC	**XII**	**10 00 23 40**±1.1	**39.13N**±.088	**20.39E**±.071	**5**		**19**	**1-3**
ATH	XII	10 00 23 39.3	39.09N	20.33E	5	3.1D		¶97xii2266
THE	XII	10 00 23 42.2	39.2N	20.4E	10	2.7L		
ISC	**XII**	**11 03 08 33**±1.0	**39.16N**±.056	**20.25E**±.097	**5**		**19**	**0-3**
ATH	XII	11 03 08 34.0	39.20N	20.31E	5	3.2D		¶97xii2474
THE	XII	11 03 08 35.6	39.2N	20.4E	0	2.8L		
ATH	**XII**	**11 17 23 44.7**	**39.19N**	**19.67E**	**2**	**3.0D**		**¶97xii2606**
ISC	**XII**	**24 09 41 10**±1.0	**39.6N**±.11	**20.48E**±.097	**18**±11		**13**	**0-4**
THE	XII	24 09 41 11.1	39.6N	20.6E	0			¶97xii4734
ISC	**XII**	**26 15 16 44**±1.1	**39.66N**±.069	**20.94E**±.073	**1**±15		**20**	**0-2**
ATH	XII	26 15 16 44.7	39.71N	20.85E	5	3.0D		¶97xii5161
THE	XII	26 15 16 45.3	39.7N	20.9E	15	2.6L		
ISC	**XII**	**28 08 16 08**±1.0	**40.43N**±.051	**20.8E**±.11	**5**		**11**	**1-2**
ATH	XII	28 08 16 05.3	40.63N	20.64E	5	2.9D		¶97xii5421
THE	XII	28 08 16 08.7	40.5N	20.7E	0	2.5L		
ISC	**XII**	**30 16 36 10**±1.1	**39.82N**±.061	**20.64E**±.077	**3**±12		**15**	**0-3**
ATH	XII	30 16 36 10.6	39.81N	20.64E	5	3.0D		¶97xii5758
THE	XII	30 16 36 11.6	39.8N	20.6E	19	2.5L		

(393) Madeira region.

ISC	**XI**	**26 23 54 40**±1.6	**32.7N**±.22	**20.1W**±.14	**10**	**3.7b**	**18**	**3-70**
EIDC	XI	26 23 54 43.5	32.9N	19.6W	0	3.6b,3.7L		¶97xi4761

(394) Canary Islands region.

ISC	**VIII**	**04 10 21 17**±2.0	**28.1N**±.21	**16.1W**±.11	**13**		**4**	**0-2**
MDD	VIII	04 10 21 18.2	28.08N	16.13W	13	2.4		¶97viii0491
ISC	Poorly determined							
ISC	**IX**	**01 06 48 26**±5.8	**29.2N**±.48	**15.0W**±.14	**0**		**5**	**1-3**
MDD	IX	01 06 48 31.0	29.08N	14.97W		3.5		¶97ix0062
ISC	Poorly determined							
MDD	**IX**	**03 20 47 02.9**	**28.06N**	**16.19W**	**17**	**3.0**		**¶97ix0486**
MDD	**X**	**13 00 31 43.4**	**28.07N**	**16.13W**	**14**	**2.0**		**¶97x2135**
ISC	**XI**	**11 05 10 03**±1.7	**28.2N**±.37	**15.0W**±.11	**6**		**5**	**1-3**
MDD	XI	11 05 10 04.9	28.3N	15.1W	6	3.2b		¶97xi1737
ISC	**XI**	**16 09 59 49**±3.7	**28.0N**±.45	**15.1W**±.12	**17**±31		**5**	**1-3**
MDD	XI	16 09 59 49.5	28.1N	15.1W	9	3.2b		¶97xi2629
ISC	Poorly determined							

(395) Morocco.

ISC	**VII**	**14 11 24 59**±1.7	**33.62N**±.054	**4.25W**±.068	**17**±13	**3.9b**	**55**	**1-80**
EIDC	VII	14 11 24 57.3	33.5N	4.1W	0	3.9b,4.6L		¶97vii2117
NEIC	VII	14 11 24 57.9	33.62N	4.16W	10	4.3b		
LIS	VII	14 11 25 02	33.73N	4.18W		4.2L		
MDD	VII	14 11 25 02.3	33.62N	4.21W	35	3.3		
RBA	VII	14 11 25 02.6	33.59N	4.31W	15	4.0D		
NEIC	mbLg3.7(MDD).							
RBA	**VII**	**16 11 01 50.0**	**33.97N**	**5.55W**	**30**	**3.1D**		**¶97vii2432**
ISC	**VII**	**26 12 56 53**±4.2	**33.2N**±.32	**4.98W**±.095	**11**		**15**	**0-7**
MDD	VII	26 12 56 55.2	33.18N	4.98W	11	3.7		¶97vii3968
LIS	VII	26 12 56 57	33.17N	4.93W		3.7L		
ISC	**VIII**	**04 14 23 37**±2.6	**32.39N**±.055	**5.75W**±.084	**16**±22	**4.0b**	**46**	**1-78**
RBA	VIII	04 14 23 30.4	33.45N	7.59W	30	4.6D		¶97viii0514
NEIC	VIII	04 14 23 35.7	32.39N	5.74W	10	4.1b		
MDD	VIII	04 14 23 37.4	32.28N	5.79W	4	3.4		
EIDC	VIII	04 14 23 41.6	32.4N	5.4W	38	3.8b,4.7L		
LIS	VIII	04 14 24 03	34.05N	6.05W		3.4L		
NEIC	Less reliable solution.							
RBA	**IX**	**07 15 17 49.5**	**32.54N**	**5.88W**	**5**	**3.2D**		**¶97ix1093**
ISC	**X**	**03 13 36 47**±1.8	**31.9N**±.16	**5.9W**±.20	**2**		**4**	**2-4**
RBA	X	03 13 36 51.4	31.89N	5.93W	2	3.4D		¶97x0472
ISC	Poorly determined							
RBA	**X**	**05 05 24 30.8**	**31.69N**	**5.86W**	**2**	**2.5D**		**¶97x0806**
ISC	**X**	**12 21 29 21**±3.3	**32.6N**±.26	**3.2W**±.29	**5**		**4**	**2-4**
RBA	X	12 21 29 23.5	32.69N	3.19W	5	4.2D		¶97x2108
ISC	Poorly determined							
ISC	**X**	**17 07 15 54**±1.6	**32.8N**±.15	**3.2W**±.15	**30**	3.6b	**11**	**2-34**
EIDC	X	17 07 15 40.8	31.6N	3.4W	0	3.5b,3.8L		¶97x2940
RBA	X	17 07 15 56.0	32.67N	3.11W	30	4.1D		
MDD	X	17 07 16 00.0	33.34N	3.52W		2.8		
ISC	**X**	**25 21 26 41.4**±.94	**34.62N**±.071	**5.5W**±.17	**0**		**6**	**1-3**
MDD	X	25 21 26 43.1	34.63N	5.36W		2.8		¶97x4375
ISC	**XI**	**05 11 34 27**±1.6	**33.9N**±.14	**5.3W**±.14	**4**		**4**	**0-3**
RBA	XI	05 11 34 28.8	33.90N	5.25W	4	3.3D		¶97xi0788
ISC	Poorly determined							
ISC	**XI**	**14 19 14 20**±1.4	**32.80N**±.083	**3.2W**±.13	**60**±19	**3.6b**	**35**	**2-79**
RBA	XI	14 19 14 06.6	33.14N	1.86W	30	4.2D		¶97xi2341
NEIC	XI	14 19 14 16.3	32.70N	2.65W	10			
EIDC	XI	14 19 14 16.7	32.7N	2.7W	0	3.6b,4.0L		
MDD	XI	14 19 14 24.1	33.2N	3.1W	0	4.3b		
NEIC	Less reliable solution.							
ISC	**XI**	**15 03 29 29**±2.3	**32.7N**±.15	**3.1W**±.19	**30**		**15**	**2-6**
RBA	XI	15 03 29 13.6	33.01N	1.59W	30	3.9D		¶97xi2409
MDD	XI	15 03 29 35.2	33.2N	3.0W	15	3.7b		
RBA	**XI**	**23 06 52 19.3**	**30.41N**	**7.36W**	**12**	**3.7D**		**¶97xi4056**
ISC	**XII**	**02 18 51 08**±3.6	**32.4N**±.26	**3.2W**±.31	**30**		**4**	**2-4**
RBA	XII	02 18 50 51	32.34N	3W	30	3.5D		¶97xii0296
ISC	Poorly determined							

(396) Algeria.

ISC	**VII**	**05 16 45 36**±1.0	**35.94N**±.080	**5.05E**±.081	**33**	3.7b	**29**	**4-33**
EIDC	VII	05 16 45 32.9	36.1N	5.5E	0	3.6b,4.3L		¶97vii0752
LDG	VII	05 16 45 35.0	35.7N	5.0E		3.7L		
NEIC	VII	05 16 45 36.1	35.93N	5.05E	33			
ISC	**VII**	**14 15 49 51.7**±.28	**35.95N**±.028	**1.14E**±.027	**10**	**4.3b,4.2s**	**181**	**3-147**
BJI	VII	14 15 49 45.0	34.93N	0.79E	10	5.0b		¶97vii2166
EIDC	VII	14 15 49 51.3	36.0N	1.2E	0	4.2b,3.9L		
NEIC	VII	14 15 49 51.4	35.94N	1.17E	10	4.7b,4.3s		
MDD	VII	14 15 49 51.8	35.83N	1.32E	4	4.0		
LDG	VII	14 15 49 57.5	36.0N	1.2E		4.1L		
NEIC	Felt in the Relizane area.							
ISC	**VII**	**20 14 26 38**±2.2	**35.9N**±.17	**3.7E**±.12	**10**		**36**	**4-15**
NEIC	VII	20 14 26 37.3	35.88N	3.80E	10			¶97vii3101
MDD	VII	20 14 26 40.4	35.86N	3.89E	13	3.3		
LDG	VII	20 14 26 45.0	36.1N	3.9E		3.7L		
NEIC	M_D4.1(MDD), Less reliable solution.							
ISC	**VII**	**27 20 25 39**±1.5	**37.0N**±.13	**0.98E**±.094	**33**		**22**	**2-10**
NEIC	VII	27 20 25 38.8	36.99N	0.98E	33			¶97vii4160
MDD	VII	27 20 25 43.2	37.14N	0.85E		3.2		
LDG	VII	27 20 25 45.9	37.4N	0.9E		2.8L		
NEIC	mbLg3.2(MDD).							
ISC	**VIII**	**06 11 33 29**±1.4	**36.7N**±.12	**1.62E**±.083	**10**	**3.7b**	**33**	**3-84**
MDD	VIII	06 11 33 30.2	36.35N	1.70E	29	3.1		¶97viii0793
NEIC	VIII	06 11 33 30.5	36.88N	1.62E	10			
EIDC	VIII	06 11 33 31.4	36.8N	1.4E	0	3.6b,4.1L		
LDG	VIII	06 11 33 35.8	36.9N	1.7E		3.6L		
NEIC	Less reliable solution.							

Agency	mo	Origin Time d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII**	**16**	**07**	**20**	**33.0**±.57	**36.84N**±.052	**1.36E**±.043	**10**	**3.8b**,3.4s	**79**	**2-91**
NEIC	VIII	16	07	20	32.5	36.81N	1.38E	10	3.3b		¶97viii2328
MDD	VIII	16	07	20	33.1	36.45N	1.47E	24	3.3		
EIDC	VIII	16	07	20	34.6	37.0N	1.3E	0	3.6b,4.3L		
LDG	VIII	16	07	20	35.3	36.7N	1.7E		3.7L		
NEIC	mbLg3.8(MDD).										
ISC	**VIII**	**17**	**10**	**52**	**15**±2.6	**36.5N**±.22	**1.8E**±.12	**0**		**15**	**3-10**
MDD	VIII	17	10	52	21.0	36.67N	1.59E		3.0		¶97viii2526
LDG	VIII	17	10	52	23.1	36.7N	1.9E		3.4L		
ISC	**VIII**	**20**	**23**	**59**	**23**±1.8	**36.7N**±.14	**1.6E**±.11	**10**		**31**	**2-12**
NEIC	VIII	20	23	59	23.1	36.67N	1.61E	10			¶97viii3035
MDD	VIII	20	23	59	26.0	36.69N	1.56E	5	2.8D		
LDG	VIII	20	23	59	26.4	36.6N	1.6E		3.2L		
NEIC	mbLg3.6(MDD)										
ISC	**VIII**	**24**	**07**	**35**	**37**±3.2	**36.5N**±.25	**4.9E**±.16	**33**±35		**31**	**4-13**
MDD	VIII	24	07	35	40.6	36.57N	4.93E	27	3.1		¶97viii3495
LDG	VIII	24	07	35	42.1	36.8N	5.0E		3.3L		
LDG	**IX**	**13**	**18**	**36**	**28.3**	**36.6N**	**5.6E**		**3.3L**		**¶97ix2011**
LDG	**IX**	**14**	**01**	**38**	**58.3**	**36.9N**	**6.3E**		**2.5L**		**¶97ix2059**
ISC	**IX**	**19**	**13**	**31**	**45**±3.4	**36.7N**±.28	**3.2E**±.15	**31**		**20**	**3-9**
MDD	IX	19	13	31	50.7	36.97N	3.06E	31	3.3		¶97ix2794
LDG	IX	19	13	31	51.6	37.1N	3.3E		3.5L		
ISC	**XI**	**11**	**19**	**45**	**29.0**±.90	**36.88N**±.077	**5.5E**±.10	**10**	**3.6b**	**23**	**6-86**
LDG	XI	11	19	45	28.9	36.6N	5.6E		3.7L		¶97xi1859
NEIC	XI	11	19	45	28.9	36.88N	5.48E	10			
EIDC	XI	11	19	45	29.4	36.8N	5.6E	0	3.6b,3.9L		
RBA	**XI**	**15**	**06**	**15**	**19.2**	**33.07N**	**1.55W**	**30**	**3.9b**		**¶97xi2431**
ISC	**XI**	**15**	**13**	**34**	**47.3**±.62	**36.46N**±.056	**1.61E**±.046	**10**	**4.1b**	**79**	**3-85**
EIDC	XI	15	13	34	46.4	36.0N	1.3E	0	3.9b,4.0L		¶97xi2482
NEIC	XI	15	13	34	48.4	36.59N	1.60E	10	4.4b		
MDD	XI	15	13	34	50.2	36.4N	1.6E	18	4.4b		
LDG	XI	15	13	34	53.6	36.6N	1.7E		3.8L		
ISC	**XI**	**29**	**23**	**40**	**05**±2.4	**36.1N**±.17	**6.0E**±.15	**6**		**35**	**4-9**
NEIC	XI	29	23	40	09.1	36.22N	6.01E	33			¶97xi5341
MDD	XI	29	23	40	13.9	36.4N	5.6E	6	4.3b		
NEIC	Less reliable solution.										
ISC	**XII**	**01**	**22**	**47**	**29**±3.0	**35.95N**±.065	**0.16W**±.078	**20**±26	**4.1b**	**47**	**2-69**
NEIC	XII	01	22	47	26.7	35.88N	0.25W	10	4.3b		¶97xii0156
EIDC	XII	01	22	47	27.3±1.43	35.9N	0.2W	0	4.0b,4.0L		
LIS	XII	01	22	47	31	36N	0.20W				
MDD	XII	01	22	47	31.4	36.0N	0.2W	13	3.3b		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi−major=37.9km semi−minor=22.4km azimuth=68										
ISC	**XII**	**05**	**16**	**55**	**11**±2.2	**35.60N**±.054	**1.40E**±.044	**19**±18	**3.9b**	**109**	**3-71**
NEIC	XII	05	16	55	09.4	35.61N	1.40E	10	3.9b		¶97xii0969
EIDC	XII	05	16	55	09.8±.97	35.6N	1.5E	0	4.0b,4.5L		
MDD	XII	05	16	55	12.1	35.6N	1.3E	0	5.0b		
STR	XII	05	16	55	14.1	35.46N	1.78E	10	4.1L		
LDG	XII	05	16	55	16.1	35.8N	1.5E		4.1L		
EIDC	Error ellipse is semi−major=23.2km semi−minor=17.2km azimuth=84										
ISC	**XII**	**19**	**15**	**32**	**24**±4.7	**35.4N**±.10	**0.89W**±.090	**8**±28	**4.0b**	**58**	**1-83**
LDG	XII	19	15	32	16.6	34.5N	0.7W		4.1L		¶97xii3989
MDD	XII	19	15	32	23.3	35.3N	0.9W	0	3.7b		
NEIC	XII	19	15	32	37.3	36.91N	3.37W	10	4.1b		
EIDC	XII	19	15	32	37.9±1.40	36.9N	3.4W	0	3.8b,3.8L		
NEIC	Less reliable solution.										
EIDC	Error ellipse is semi−major=39.9km semi−minor=26.0km azimuth=109										
ISC	**XII**	**24**	**02**	**38**	**02**±1.4	**35.71N**±.084	**1.1W**±.11	**14**		**29**	**1-6**
MDD	XII	24	02	38	03.8	35.7N	1.2W	14	2.6b		¶97xii4692

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ISC	**VII**	**01**	**12**	**15**	**04.1**±.59	**38.31N**±.095	**14.2E**±.15	**220**±8.4	**4.0b**	**19**	**0-33**
EIDC	VII	01	12	14	44.6	38.4N	15.5E	0	3.9b		¶97vii0084
ROM	VII	01	12	15	05.8	38.3N	14.3E	203	3.0D		
ISC	**VII**	**01**	**17**	**51**	**02**±1.3	**37.8N**±.11	**15.0E**±.11	**10**		**4**	**0-1**
ROM	VII	01	17	51	01.9	37.8N	15.0E	10	2.3D		¶97vii0121
ISC	Poorly determined										
ISC	**VII**	**02**	**14**	**08**	**01**±1.6	**38.5N**±.12	**16.0E**±.20	**10**		**4**	**0-1**
ROM	VII	02	14	08	00.1	38.5N	16.0E	10	2.4D		¶97vii0252
ISC	Poorly determined										
ISC	**VII**	**02**	**14**	**53**	**27**±4.0	**37.2N**±.26	**14.4E**±.34	**24**±23		**6**	**0-2**
ROM	VII	02	14	53	27.6	37.3N	14.5E	9	2.7D		¶97vii0256
ISC	**VII**	**03**	**01**	**27**	**12**±1.2	**38.4N**±.11	**15.6E**±.28	**127**		**9**	**0-3**
ROM	VII	03	01	27	12.0	38.3N	15.5E	127	2.8D		¶97vii0333
ISC	**VII**	**03**	**08**	**07**	**30**±3.4	**37.7N**±.26	**14.8E**±.11	**5**		**4**	**0-1**
ROM	VII	03	08	07	28.0	37.6N	14.8E	5	2.5D		¶97vii0377
ISC	Poorly determined										
ISC	**VII**	**04**	**12**	**30**	**31.4**±.95	**37.72N**±.070	**14.88E**±.079	**5**		**7**	**0-2**
ROM	VII	04	12	30	30.7	37.7N	14.9E	5	2.7D		¶97vii0559
ISC	**VII**	**04**	**14**	**06**	**35**±1.3	**37.77N**±.088	**14.9E**±.13	**5**		**4**	**0-1**
ROM	VII	04	14	06	34.4	37.8N	14.9E	5	2.3D		¶97vii0569
ISC	Poorly determined										
ROM	**VII**	**05**	**11**	**51**	**34.4**	**38.5N**	**15.9E**	**10**	**2.2D**		**¶97vii0723**
ROM	**VII**	**09**	**01**	**05**	**12.1**	**37.9N**	**15.0E**	**10**	**1.9D**		**¶97vii1262**
ISC	**VII**	**09**	**02**	**11**	**37**±2.9	**38.4N**±.25	**15.3E**±.64	**118**		**4**	**0-1**
ROM	VII	09	02	11	36.9	38.4N	15.4E	118	2.4D		¶97vii1277
ISC	Poorly determined										
ISC	**VII**	**09**	**03**	**04**	**58**±6.6	**38.8N**±.32	**14.0E**±.13	**2**±35		**6**	**1-2**
ROM	VII	09	03	05	00.1	38.7N	14.0E	5	2.7D		¶97vii1279
ROM	**VII**	**09**	**18**	**00**	**42.3**	**37.8N**	**14.5E**	**10**	**2.2D**		**¶97vii1375**
ISC	**VII**	**10**	**15**	**48**	**55**±1.3	**37.67N**±.087	**15.0E**±.14	**10**		**4**	**0-1**
ROM	VII	10	15	48	54.5	37.7N	15.0E	10	2.3D		¶97vii1530
ISC	Poorly determined										
ISC	**VII**	**10**	**17**	**03**	**31**±1.3	**37.66N**±.086	**15.0E**±.14	**10**		**4**	**0-1**
ROM	VII	10	17	03	31.4	37.7N	15.0E	10	2.3D		¶97vii1539
ISC	Poorly determined										
ROM	**VII**	**10**	**23**	**22**	**30.0**	**38.2N**	**15.1E**	**21**	**2.3D**		**¶97vii1583**
ROM	**VII**	**11**	**07**	**13**	**03.7**	**37.6N**	**15.1E**	**10**	**2.3D**		**¶97vii1639**
ROM	**VII**	**16**	**12**	**03**	**15.1**	**38.5N**	**15.0E**	**10**	**2.3D**		**¶97vii2442**
ISC	**VII**	**18**	**13**	**17**	**50**±2.4	**38.2N**±.26	**14.9E**±.12	**10**		**4**	**0-1**
ROM	VII	18	13	17	50.4	38.1N	14.9E	10	2.5D		¶97vii2746
ISC	Poorly determined										
ISC	**VII**	**22**	**11**	**36**	**55.6**±.88	**37.78N**±.069	**14.90E**±.089	**10**		**6**	**0-1**
ROM	VII	22	11	36	55.8	37.8N	14.9E	10	2.4D		¶97vii3369
ISC	**VII**	**23**	**07**	**50**	**55**±1.3	**37.73N**±.091	**15.0E**±.11	**5**±21		**5**	**0-1**
ROM	VII	23	07	50	55.1	37.7N	15.0E	5	2.4D		¶97vii3497
ISC	Poorly determined										
ISC	**VII**	**26**	**10**	**12**	**25.0**±.90	**37.80N**±.069	**15.5E**±.10	**6**		**7**	**0-1**
ROM	VII	26	10	12	24.5	37.8N	15.5E	6	2.7D		¶97vii3950
ISC	**VII**	**26**	**18**	**20**	**37**±2.5	**38.3N**±.28	**14.9E**±.12	**19**		**5**	**0-1**
ROM	VII	26	18	20	35.8	38.4N	14.8E	19	2.5D		¶97vii3990
ISC	**VII**	**26**	**18**	**35**	**08**±1.5	**37.80N**±.098	**15.5E**±.18	**10**		**4**	**0-1**
ROM	VII	26	18	35	07.5	37.8N	15.5E	10	2.4D		¶97vii3992
ISC	Poorly determined										
ISC	**VII**	**27**	**04**	**40**	**44.2**±.94	**37.69N**±.069	**15.20E**±.099	**10**		**6**	**0-1**
ROM	VII	27	04	40	44.2	37.7N	15.2E	10	2.5D		¶97vii4057
ISC	**VII**	**29**	**01**	**26**	**23**±1.4	**38.3N**±.18	**15.08E**±.096	**21**		**6**	**0-1**
ROM	VII	29	01	26	23.6	38.2N	15.1E	21	2.4D		¶97vii4359
ISC	**VII**	**29**	**01**	**33**	**08**±1.6	**37.68N**±.074	**15.0E**±.12	**14**±19		**7**	**0-2**
ROM	VII	29	01	33	07.9	37.7N	15.0E	5	2.5D		¶97vii4360
ISC	**VII**	**29**	**19**	**55**	**25**±1.2	**38.3N**±.13	**15.20E**±.086	**17**		**7**	**0-1**
ROM	VII	29	19	55	24.9	38.2N	15.2E	17	2.6D		¶97vii4473
ISC	**VII**	**29**	**23**	**48**	**31**±1.2	**38.3N**±.17	**15.19E**±.090	**19**		**6**	**0-1**
ROM	VII	29	23	48	30.3	38.2N	15.2E	19	2.4D		¶97vii4504
ISC	**VII**	**30**	**16**	**06**	**36.7**±.60	**37.27N**±.053	**14.78E**±.054	**20**		**28**	**0-14**
NEIC	VII	30	16	06	35.9	37.28N	14.58E	10			¶97vii4601
ROM	VII	30	16	06	38.0	37.3N	14.8E	20	3.7D		
ISC	**VII**	**30**	**23**	**26**	**38**±1.0	**37.67N**±.068	**15.1E**±.12	**10**		**5**	**0-1**
ROM	VII	30	23	26	38.2	37.7N	15.0E	10	2.3D		¶97vii4647
ISC	**VII**	**31**	**00**	**04**	**25**±1.4	**37.69N**±.070	**15.11E**±.098	**11**±15		**8**	**0-2**
ROM	VII	31	00	04	24.3	37.7N	15.1E	5	2.8D		¶97vii4654
ROM	**VII**	**31**	**17**	**20**	**50.0**	**38.2N**	**15.4E**	**29**	**2.0D**		**¶97vii4769**
ISC	**VIII**	**02**	**20**	**47**	**58**±1.7	**38.2N**±.18	**15.00E**±.094	**9**		**6**	**0-1**
ROM	VIII	02	20	47	58.8	38.1N	15.1E	9	2.6D		¶97viii0258
ROM	**VIII**	**02**	**20**	**59**	**21.2**	**38.2N**	**15.1E**	**10**	**2.3D**		**¶97viii0259**
ISC	**VIII**	**04**	**02**	**49**	**04**±5.8	**38.2N**±.29	**15.6E**±.24	**152**±54		**10**	**0-3**
ROM	VIII	04	02	49	08.8	38.4N	15.5E	111	2.8D		¶97viii0447
ISC	**VIII**	**06**	**15**	**08**	**50.9**±.74	**38.8N**±.16	**15.5E**±.39	**245**		**8**	**1-2**
ROM	VIII	06	15	08	50.6	38.8N	15.5E	245	3.0D		¶97viii0812
ISC	**VIII**	**07**	**14**	**45**	**46**±1.0	**37.68N**±.069	**14.9E**±.11	**5**		**5**	**1-1**
ROM	VIII	07	14	45	44.8	37.7N	14.9E	5	2.5D		¶97viii0953
ROM	**VIII**	**07**	**15**	**04**	**52.7**	**37.8N**	**15.0E**	**10**	**2.4D**		**¶97viii0956**
ISC	**VIII**	**07**	**15**	**11**	**19.6**±.88	**37.79N**±.071	**14.86E**±.093	**10**		**6**	**0-1**
ROM	VIII	07	15	11	19.6	37.8N	14.8E	10	2.8D		¶97viii0958
ISC	**VIII**	**07**	**15**	**20**	**52.9**±.95	**37.70N**±.064	**14.9E**±.12	**5**±29		**6**	**0-1**
ROM	VIII	07	15	20	52.4	37.7N	14.9E	5	2.7D		¶97viii0959
ISC	**VIII**	**07**	**15**	**24**	**01**±1.1	**37.91N**±.078	**14.88E**±.066	**13**±9.6		**14**	**0-3**
ROM	VIII	07	15	24	00.3	37.9N	14.9E	8	3.1D		¶97viii0960
ISC	**VIII**	**07**	**15**	**26**	**27**±1.2	**38.0N**±.18	**14.9E**±.10	**5**		**5**	**0-2**
ROM	VIII	07	15	26	25.6	37.8N	14.9E	5	2.6D		¶97viii0961
ROM	**VIII**	**07**	**15**	**26**	**34.5**	**37.8N**	**15.2E**	**5**	**2.7D**		**¶97viii0962**
ISC	**VIII**	**07**	**15**	**31**	**43**±1.2	**37.77N**±.063	**14.8E**±.14	**5**		**5**	**0-1**
ROM	VIII	07	15	31	42.8	37.8N	14.8E	5	2.5D		¶97viii0963
ISC	**VIII**	**07**	**15**	**32**	**00**±1.3	**37.9N**±.14	**15.1E**±.11	**5**		**4**	**0-1**
ROM	VIII	07	15	32	00.1	37.9N	15.0E	5	2.0D		¶97viii0964
ISC	Poorly determined										
ISC	**VIII**	**07**	**15**	**33**	**52**±1.3	**37.72N**±.069	**14.8E**±.18	**5**		**4**	**0-1**
ROM	VIII	07	15	33	51.8	37.7N	14.9E	5	2.3D		¶97viii0965
ISC	Poorly determined										
ROM	**VIII**	**07**	**15**	**46**	**25.2**	**38.2N**	**14.8E**	**5**	**2.5D**		**¶97viii0966**
ISC	**VIII**	**07**	**15**	**48**	**18**±1.0	**37.67N**±.063	**14.9E**±.12	**1**±33		**6**	**0-1**
ROM	VIII	07	15	48	18.0	37.7N	14.9E	5	2.3D		¶97viii0967
ISC	**VIII**	**07**	**15**	**48**	**53**±1.5	**37.66N**±.059	**14.96E**±.096	**14**±15		**11**	**0-3**
ROM	VIII	07	15	48	52.8	37.7N	15.0E	8	3.0D		¶97viii0968
ROM	**VIII**	**07**	**16**	**00**	**46.3**	**37.8N**	**15.1E**	**10**	**2.1D**		**¶97viii0970**
ISC	**VIII**	**07**	**16**	**01**	**24**±1.1	**37.73N**±.079	**14.94E**±.090	**5**		**5**	**0-1**
ROM	VIII	07	16	01	23.3	37.7N	14.9E	5	2.7D		¶97viii0971
ISC	**VIII**	**07**	**16**	**37**	**29.2**±.96	**37.72N**±.081	**14.9E**±.13	**29**±14		**6**	**0-1**
ROM	VIII	07	16	37	28.7	37.7N	14.9E	5	2.8D		¶97viii0975
ROM	**VIII**	**07**	**17**	**22**	**12.7**	**37.8N**	**15.1E**	**10**	**2.1D**		**¶97viii0977**
ROM	**VIII**	**07**	**17**	**25**	**00.9**	**38.1N**	**15.0E**	**20**	**2.1D**		**¶97viii0978**
ISC	**VIII**	**07**	**17**	**45**	**07**±1.3	**37.74N**±.098	**14.9E**±.12	**5**		**4**	**0-1**
ROM	VIII	07	17	45	06.5	37.7N	14.9E	5	2.8D		¶97viii0979
ISC	Poorly determined										
ISC	**VIII**	**07**	**17**	**55**	**39**±1.7	**37.70N**±.084	**15.0E**±.12	**14**±21		**6**	**0-1**
ROM	VIII	07	17	55	38.8	37.7N	15.0E	5	2.8D		¶97viii0982
ROM	**VIII**	**07**	**18**	**26**	**31.3**	**37.8N**	**15.1E**	**5**	**2.3D**		**¶97viii0987**
ROM	**VIII**	**08**	**00**	**25**	**01.3**	**37.5N**	**15.1E**	**5**	**2.0D**		**¶97viii1019**
ISC	**VIII**	**08**	**00**	**27**	**10**±1.8	**38.1N**±.14	**14.9E**±.10	**5**		**5**	**0-1**
ROM	VIII	08	00	27	08.9	38.1N	14.9E	5	2.7D		¶97viii1021
ISC	**VIII**	**08**	**00**	**28**	**14**±2.0	**37.73N**±.081	**15.0E**±.14	**11**±23		**6**	**0-1**
ROM	VIII	08	00	28	13.6	37.7N	15.0E	5	3.1D		¶97viii1022
ISC	**VIII**	**08**	**00**	**34**	**46.4**±.78	**37.74N**±.066	**15.0E**±.11	**27**±13		**9**	**0-3**
ROM	VIII	08	00	34	45.8	37.7N	14.9E	5	2.9D		¶97viii1023
ROM	**VIII**	**08**	**00**	**47**	**14.5**	**37.7N**	**14.9E**	**5**	**2.0D**		**¶97viii1029**
ISC	**VIII**	**08**	**00**	**51**	**39**±1.1	**37.70N**±.078	**15.0E**±.11	**6**		**5**	**0-2**
ROM	VIII	08	00	51	38.8	37.7N	15.0E	6	2.6D		¶97viii1031
ROM	**VIII**	**08**	**00**	**52**	**01.8**	**38.2N**	**15.5E**	**8**	**1.8D**		**¶97viii1032**
ISC	**VIII**	**08**	**00**	**58**	**57**±1.1	**37.67N**±.068	**14.9E**±.11	**5**		**5**	**0-1**
ROM	VIII	08	00	58	56.4	37.7N	15.0E	5	2.3D		¶97viii1033
ISC	**VIII**	**08**	**01**	**34**	**19.7**±.82	**37.68N**±.056	**14.92E**±.091	**7**		**7**	**0-2**
ROM	VIII	08	01	34	19.6	37.7N	14.9E	7	2.7D		¶97viii1037
ROM	**VIII**	**08**	**01**	**43**	**12.0**	**37.7N**	**14.9E**	**5**	**2.1D**		**¶97viii1039**
ISC	**VIII**	**08**	**03**	**13**	**34**±1.3	**37.74N**±.098	**15.0E**±.12	**5**		**4**	**0-1**
ROM	VIII	08	03	13	33.4	37.7N	15.0E	5	2.1D		¶97viii1048
ISC	Poorly determined										
ISC	**VIII**	**08**	**04**	**06**	**01**±1.6	**37.69N**±.058	**15.00E**±.086	**11**±14		**12**	**0-3**
ROM	VIII	08	04	06	00.4	37.7N	15.0E	5	3.1D		¶97viii1053
ISC	**VIII**	**08**	**04**	**23**	**57**±1.0	**37.70N**±.064	**15.0E**±.12	**5**		**5**	**0-1**
ROM	VIII	08	04	23	56.3	37.7N	15.0E	5	2.3D		¶97viii1054
ROM	**VIII**	**08**	**04**	**26**	**11.6**	**37.7N**	**15.0E**	**5**	**2.1D**		**¶97viii1055**
ISC	**VIII**	**08**	**04**	**30**	**51.9**±.84	**37.66N**±.065	**14.9E**±.11	**24**±16		**8**	**0-3**
ROM	VIII	08	04	30	51.2	37.7N	14.9E	5	3.0D		¶97viii1056
ROM	**VIII**	**08**	**08**	**01**	**36.4**	**37.7N**	**14.9E**	**5**	**2.1D**		**¶97viii1071**
ISC	**VIII**	**08**	**23**	**16**	**36**±1.8	**38.8N**±.11	**15.6E**±.23	**10**		**5**	**1-2**
ROM	VIII	08	23	16	36.3	38.8N	15.6E	10	2.6D		¶97viii1178
ISC	**VIII**	**10**	**00**	**42**	**00**±3.5	**37.7N**±.29	**15.0E**±.11	**5**		**4**	**0-1**
ROM	VIII	10	00	41	58.8	37.6N	15.0E	5	2.4D		¶97viii1325
ISC	Poorly determined										
ISC	**VIII**	**10**	**07**	**03**	**56**±1.4	**37.9N**±.15	**15.0E**±.10	**10**±20		**5**	**0-1**
ROM	VIII	10	07	03	54.8	37.8N	15.0E	10	2.6D		¶97viii1366
ISC	Poorly determined										
ISC	**VIII**	**11**	**08**	**18**	**19**±1.4	**37.69N**±.086	**15.1E**±.14	**5**		**4**	**0-1**
ROM	VIII	11	08	18	18.0	37.7N	15.0E	5	2.5D		¶97viii1530
ISC	Poorly determined										
ROM	**VIII**	**12**	**11**	**20**	**08.0**	**37.8N**	**14.6E**	**10**	**2.4D**		**¶97viii1734**
ROM	**VIII**	**12**	**11**	**20**	**49.8**	**37.8N**	**14.6E**	**10**	**2.7D**		**¶97viii1735**

ROM	**VIII**	**12 13 02 29.5**	**37.7N**	**14.9E**	**5**	**2.2**D			¶97viii1754
ISC	**VIII**	**12 14 32 52**±1.0	**37.67N**±.062	**14.9E**±.13	**5**		**5**	**0-1**	
ROM	VIII	12 14 32 51.6	37.7N	14.9E	5	2.3D			¶97viii1765
ROM	**VIII**	**12 16 27 26.5**	**37.7N**	**14.8E**	**5**	**2.1**D			¶97viii1779
ISC	**VIII**	**12 16 32 04.0**±.89	**37.66N**±.057	**14.89E**±.094	**5**		**6**	**0-1**	
ROM	VIII	12 16 32 03.1	37.7N	14.9E	5	2.6D			¶97viii1780
ISC	**VIII**	**12 16 34 05.7**±.88	**37.70N**±.059	**14.92E**±.090	**5**		**6**	**0-1**	
ROM	VIII	12 16 34 04.9	37.7N	14.9E	5	2.5D			¶97viii1781
ISC	**VIII**	**15 03 30 20.9**±.86	**37.68N**±.061	**15.25E**±.092	**5**		**7**	**1-1**	
ROM	VIII	15 03 30 20.8	37.7N	15.2E	5	2.8D			¶97viii2154
ISC	**VIII**	**15 20 53 53**±1.1	**37.64N**±.074	**15.3E**±.12	**6**±27		**6**	**1-1**	
ROM	VIII	15 20 53 52.8	37.6N	15.3E	5	2.7D			¶97viii2271
ISC	**VIII**	**16 05 17 48.0**±.96	**37.60N**±.068	**15.3E**±.11	**5**		**8**	**1-4**	
ROM	VIII	16 05 17 46.6	37.7N	15.1E	5	2.7D			¶97viii2320
ISC	**VIII**	**16 08 06 47**±1.2	**37.71N**±.090	**15.0E**±.11	**8**±19		**5**	**0-1**	
ROM	VIII	16 08 06 46.8	37.7N	15.0E	5	2.4D			¶97viii2334
ISC	Poorly determined								
ISC	**VIII**	**17 00 16 02**±2.9	**37.8N**±.32	**15.1E**±.11	**5**		**4**	**0-1**	
ROM	VIII	17 00 16 02.4	37.9N	15.1E	5	2.4D			¶97viii2441
ISC	Poorly determined								
ROM	**VIII**	**17 02 13 41.9**	**37.6N**	**15.0E**	**5**	**2.2**D			¶97viii2458
ISC	**VIII**	**17 04 43 45**±5.1	**38.6N**±.17	**15.2E**±.21	**259**±51		**12**	**0-3**	
ROM	VIII	17 04 43 45.4	38.6N	15.2E	253	2.9D			¶97viii2485
ISC	**VIII**	**17 10 27 58**±2.0	**37.8N**±.11	**14.4E**±.17	**43**±30		**7**	**0-4**	
ROM	VIII	17 10 27 58.2	37.7N	14.5E	14	2.1D			¶97viii2522
ISC	**VIII**	**17 17 49 13.9**±.76	**38.13N**±.067	**15.86E**±.077	**11**±6.2		**11**	**0-2**	
ROM	VIII	17 17 49 13.8	38.1N	15.8E	7	3.1D			¶97viii2569
ROM	**VIII**	**23 03 08 20.3**	**37.7N**	**14.3E**	**10**	**2.2**D			¶97viii3331
ROM	**VIII**	**23 03 33 44.0**	**37.7N**	**14.3E**	**10**	**2.3**D			¶97viii3333
ISC	**VIII**	**26 11 36 13**±1.2	**37.81N**±.087	**15.8E**±.13	**23**±11		**10**	**0-2**	
ROM	VIII	26 11 36 13.0	37.8N	15.8E	15	2.8D			¶97viii3840
ISC	**VIII**	**29 02 09 05**±1.4	**37.66N**±.086	**15.1E**±.14	**10**±20		**5**	**1-1**	
ROM	VIII	29 02 09 05.5	37.7N	15.1E	10	2.3D			¶97viii4218
ISC	Poorly determined								
ISC	**VIII**	**31 11 08 13.3**±.85	**37.73N**±.080	**13.86E**±.071	**5**		**7**	**0-1**	
ROM	VIII	31 11 08 12.7	37.7N	13.8E	5	2.7D			¶97viii4640
ROM	**VIII**	**31 21 25 42.4**	**38.5N**	**14.1E**	**10**	**2.3**D			¶97viii4713
ISC	**IX**	**01 10 18 54**±2.0	**37.9N**±.35	**15.1E**±.13	**10**		**4**	**0-1**	
ROM	IX	01 10 18 53.3	37.8N	15.2E	10	2.7D			¶97ix0091
ISC	Poorly determined								
ROM	**IX**	**02 07 18 26.9**	**37.6N**	**15.3E**	**5**	**2.4**D			¶97ix0233
ISC	**IX**	**02 09 47 21.3**±.92	**37.63N**±.060	**15.1E**±.10	**5**		**6**	**0-1**	
ROM	IX	02 09 47 21.0	37.6N	15.1E	5	2.5D			¶97ix0255
ISC	**IX**	**02 10 42 42.3**±.87	**37.65N**±.059	**15.12E**±.084	**3**±12		**10**	**0-3**	
ROM	IX	02 10 42 42.3	37.6N	15.1E	5	2.9D			¶97ix0260
ROM	**IX**	**02 21 21 04.8**	**38.1N**	**14.9E**	**10**	**2.0**D			¶97ix0330
ISC	**IX**	**06 13 28 03.6**±.81	**37.74N**±.064	**15.03E**±.084	**10**		**7**	**0-1**	
ROM	IX	06 13 28 03.4	37.8N	15.0E	10	2.5D			¶97ix0917
ISC	**IX**	**06 13 38 49**±1.1	**37.75N**±.091	**15.06E**±.094	**10**		**5**	**0-1**	
ROM	IX	06 13 38 48.2	37.7N	15.1E	10	3.0D			¶97ix0919
ISC	**IX**	**06 13 39 52**±1.2	**37.8N**±.11	**15.1E**±.12	**10**		**4**	**0-1**	
ROM	IX	06 13 39 51.0	37.8N	15.0E	10	2.6D			¶97ix0920
ISC	Poorly determined								
ISC	**IX**	**06 13 41 53**±1.6	**37.91N**±.077	**15.4E**±.16	**5**		**6**	**0-1**	
ROM	IX	06 13 41 52.4	37.9N	15.4E	5	2.4D			¶97ix0921
ISC	**IX**	**06 13 45 50**±1.2	**37.8N**±.10	**15.1E**±.12	**10**		**4**	**0-1**	
ROM	IX	06 13 45 49.3	37.8N	15.1E	10	2.2D			¶97ix0925
ISC	Poorly determined								
ISC	**IX**	**06 13 54 19**±1.7	**37.76N**±.069	**15.0E**±.11	**13**±18		**8**	**0-2**	
ROM	IX	06 13 54 18.1	37.8N	15.0E	5	2.6D			¶97ix0927
ROM	**IX**	**06 14 01 50.1**	**37.7N**	**15.1E**	**10**	**2.1**D			¶97ix0928
ISC	**IX**	**06 15 11 24**±1.0	**37.74N**±.069	**15.03E**±.097	**6**±18		**6**	**0-1**	
ROM	IX	06 15 11 23.3	37.8N	15.0E	10	2.5D			¶97ix0934
ISC	**IX**	**06 15 16 54**±8.9	**38.4N**±.51	**14.7E**±.38	**5**		**4**	**0-1**	
ROM	IX	06 15 16 54.9	38.3N	14.8E	5	2.2D			¶97ix0935
ISC	Poorly determined								
ROM	**IX**	**06 15 17 34.5**	**38.1N**	**15.0E**	**10**	**2.2**D			¶97ix0936
ROM	**IX**	**07 14 29 30.7**	**37.4N**	**14.9E**	**10**	**2.4**D			¶97ix1082
ISC	**IX**	**09 16 05 56**±2.0	**37.9N**±.32	**15.2E**±.13	**10**		**4**	**0-1**	
ROM	IX	09 16 05 55.6	37.9N	15.2E	10	2.3D			¶97ix1403
ISC	Poorly determined								
ROM	**IX**	**11 09 50 35.2**	**38.0N**	**15.0E**	**10**	**2.3**D			¶97ix1660
ISC	**IX**	**11 09 52 02.4**±.89	**37.66N**±.063	**15.0E**±.10	**10**		**6**	**0-1**	
ROM	IX	11 09 52 02.2	37.7N	15.0E	10	2.4D			¶97ix1661
ISC	**IX**	**11 14 41 10**±1.3	**38.0N**±.14	**14.9E**±.11	**10**		**4**	**0-1**	
ROM	IX	11 14 41 10.2	38.0N	15.0E	10	2.2D			¶97ix1689
ISC	Poorly determined								
ISC	**IX**	**11 23 18 54.4**±.81	**37.68N**±.056	**14.96E**±.084	**5**		**7**	**0-2**	
ROM	IX	11 23 18 54.2	37.7N	14.9E	5	2.6D			¶97ix1743
ISC	**IX**	**13 09 24 07.6**±.81	**37.73N**±.063	**14.99E**±.085	**10**		**7**	**0-1**	
ROM	IX	13 09 24 07.6	37.7N	15.0E	10	2.7D			¶97ix1960
ISC	**IX**	**14 07 51 05**±1.1	**37.66N**±.066	**15.1E**±.13	**10**		**5**	**0-1**	
ROM	IX	14 07 51 05.4	37.7N	15.1E	10	2.3D			¶97ix2087
ISC	**IX**	**14 09 20 27.5**±.89	**37.68N**±.063	**15.05E**±.097	**10**		**6**	**0-1**	
ROM	IX	14 09 20 27.6	37.7N	15.0E	10	2.5D			¶97ix2099
ROM	**IX**	**14 21 49 25.3**	**37.5N**	**15.3E**	**10**	**2.2**D			¶97ix2169
ISC	**IX**	**16 06 04 03**±1.5	**37.1N**±.16	**14.64E**±.095	**25**±12		**12**	**0-3**	
ROM	IX	16 06 04 03.7	37.1N	14.6E	15	3.5D			¶97ix2340
ROM	**IX**	**18 20 02 47.7**	**38.0N**	**14.0E**	**5**	**2.5**D			¶97ix2708
ISC	**IX**	**19 21 42 28**±5.6	**38.6N**±.42	**14.6E**±.22	**17**		**4**	**1-1**	
ROM	IX	19 21 42 28.6	38.5N	14.7E	17	2.9D			¶97ix2854
ISC	Poorly determined								
ISC	**IX**	**19 23 04 12**±2.9	**38.6N**±.20	**14.7E**±.18	**24**±18		**7**	**1-2**	
ROM	IX	19 23 04 12.0	38.6N	14.6E	16	2.9D			¶97ix2862
ISC	**IX**	**19 23 06 54**±1.2	**38.60N**±.069	**14.7E**±.10	**21**±15		**12**	**1-2**	
ROM	IX	19 23 06 53.4	38.6N	14.6E	16	3.4D			¶97ix2863
ISC	**IX**	**19 23 30 08**±3.1	**38.6N**±.23	**14.6E**±.19	**26**±21		**6**	**1-2**	
ROM	IX	19 23 30 07.1	38.6N	14.6E	20	2.7D			¶97ix2869
ISC	**IX**	**21 07 05 01.2**±.80	**37.69N**±.056	**14.99E**±.081	**8**±11		**10**	**0-2**	
ROM	IX	21 07 05 00.8	37.7N	15.0E	5	3.1D			¶97ix3054
ISC	**IX**	**21 07 44 03**±1.4	**37.73N**±.088	**15.0E**±.13	**5**		**4**	**0-1**	
ROM	IX	21 07 44 02.4	37.7N	15.1E	5	2.4D			¶97ix3061
ISC	Poorly determined								
ISC	**IX**	**21 09 02 41**±1.4	**37.71N**±.086	**15.0E**±.13	**5**		**4**	**0-1**	
ROM	IX	21 09 02 40.4	37.7N	15.0E	5	2.2D			¶97ix3070
ISC	Poorly determined								
ISC	**IX**	**22 19 31 37**±1.6	**38.05N**±.090	**15.54E**±.088	**0**±24		**7**	**0-1**	
ROM	IX	22 19 31 37.0	38.1N	15.5E	9	2.7D			¶97ix3320
ROM	**IX**	**23 00 59 49.3**	**37.4N**	**15.2E**	**10**	**2.4**D			¶97ix3348
ISC	**IX**	**23 08 10 26**±2.3	**37.8N**±.14	**15.3E**±.23	**12**		**6**	**0-22**	
ROM	IX	23 08 10 30.7	38.1N	15.5E	12	2.0D			¶97ix3395
ISC	**IX**	**24 17 59 17.7**±.90	**37.69N**±.060	**15.02E**±.091	**4**±18		**7**	**0-1**	
ROM	IX	24 17 59 17.2	37.7N	15.0E	5	2.8D			¶97ix3613
ISC	**IX**	**25 01 46 05**±1.3	**37.61N**±.066	**14.9E**±.21	**5**		**4**	**0-1**	
ROM	IX	25 01 46 04.2	37.6N	14.7E	5	2.2D			¶97ix3663
ISC	Poorly determined								
ISC	**IX**	**25 12 14 59**±1.9	**38.4N**±.18	**14.9E**±.52	**199**		**5**	**1-2**	
ROM	IX	25 12 14 58.8	38.4N	14.9E	199	2.6D			¶97ix3736
ISC	**IX**	**25 13 10 44**±1.6	**38.6N**±.10	**14.6E**±.15	**22**±18		**7**	**1-2**	
ROM	IX	25 13 10 41.4	38.6N	14.6E	5	2.7D			¶97ix3746
ISC	**IX**	**27 09 13 30**±1.1	**37.77N**±.076	**14.7E**±.12	**23**±19		**7**	**0-1**	
ROM	IX	27 09 13 30.4	37.7N	14.7E	10	2.5D			¶97ix4313
ROM	**IX**	**28 12 36 31.3**	**37.9N**	**14.0E**	**6**	**2.4**D			¶97ix4649
ROM	**IX**	**29 00 58 45.3**	**38.5N**	**13.1E**	**10**	**2.7**D			¶97ix4813
ISC	**IX**	**29 03 13 10**±1.3	**37.63N**±.095	**15.1E**±.13	**5**		**4**	**0-1**	
ROM	IX	29 03 13 08.9	37.6N	15.1E	5	2.7D			¶97ix4848
ISC	Poorly determined								
ISC	**IX**	**29 10 51 32**±1.3	**37.67N**±.089	**15.0E**±.12	**7**±21		**6**	**1-1**	
ROM	IX	29 10 51 32.3	37.7N	15.0E	10	2.9D			¶97ix4930
ISC	**IX**	**29 12 14 37**±1.1	**37.72N**±.071	**15.0E**±.12	**10**		**5**	**0-1**	
ROM	IX	29 12 14 37.2	37.7N	15.0E	10	2.3D			¶97ix4945
ISC	**IX**	**29 12 45 16**±1.1	**37.70N**±.063	**15.0E**±.12	**5**		**5**	**0-1**	
ROM	IX	29 12 45 15.9	37.7N	15.1E	5	2.3D			¶97ix4949
ROM	**IX**	**29 17 07 22.7**	**37.7N**	**15.1E**	**10**	**2.3**D			¶97ix4987
ISC	**IX**	**29 23 44 33.5**±.91	**37.30N**±.081	**15.82E**±.048	**55**±11		**3.3b**	**56**	**1-25**
EIDC	IX	29 23 44 23.1	36.6N	15.5E	0	3.4b,4.0L			¶97ix5062
NEIC	IX	29 23 44 27.5	37.09N	15.65E	10				
ROM	IX	29 23 44 33.5	37.3N	15.7E	8	3.4D			
PDG	IX	29 23 44 47.8	38.3N	16.5E	150	3.9L			
THE	IX	29 23 44 49.9	38.0N	17.3E	2	3.8L			
NEIC	Poor solution.								
ROM	**X**	**01 12 10 43.5**	**38.3N**	**15.7E**	**5**	**2.2**D			¶97x0082
ISC	**X**	**04 16 53 34**±1.0	**37.69N**±.066	**15.0E**±.10	**6**±19		**6**	**0-1**	
ROM	X	04 16 53 32.7	37.7N	15.0E	5	2.4D			¶97x0691
ROM	**X**	**06 02 56 50.9**	**37.7N**	**15.4E**	**10**	**2.3**D			¶97x0972
ISC	**X**	**06 15 29 50.9**±.82	**37.67N**±.060	**15.13E**±.087	**6**±16		**8**	**0-1**	
ROM	X	06 15 29 50.3	37.7N	15.1E	5	2.8D			¶97x1070
ISC	**X**	**06 16 41 41.1**±.81	**37.70N**±.061	**15.16E**±.084	**5**		**7**	**0-1**	
ROM	X	06 16 41 40.6	37.7N	15.1E	5	2.5D			¶97x1082
ISC	**X**	**08 20 40 59.9**±.71	**38.86N**±.053	**15.9E**±.12	**16**		**9**	**0-2**	
ROM	X	08 20 40 59.9	38.8N	15.9E	16	2.7D			¶97x1471
ROM	**X**	**09 17 24 24.0**	**38.0N**	**14.1E**	**5**	**2.4**D			¶97x1610
ISC	**X**	**11 12 32 08.1**±.88	**37.69N**±.059	**14.96E**±.095	**5**		**6**	**0-1**	
ROM	X	11 12 32 07.8	37.7N	14.9E	5	2.4D			¶97x1892
ROM	**X**	**13 07 10 27.6**	**38.4N**	**14.5E**	**5**	**2.1**D			¶97x2171
ISC	**X**	**14 12 40 27**±1.3	**38.2N**±.33	**15.6E**±.12	**11**		**4**	**0-0**	
ROM	X	14 12 40 26.3	38.2N	15.6E	11	1.8D			¶97x2406
ISC	Poorly determined								
ISC	**X**	**15 00 46 47**±4.0	**37.7N**±.49	**12.9E**±.18	**13**		**4**	**0-2**	
ROM	X	15 00 46 47.2	37.8N	13.0E	13	2.4D			¶97x2521
ISC	Poorly determined								
ISC	**X**	**15 15 48 56**±1.2	**37.66N**±.076	**15.0E**±.15	**5**		**4**	**0-1**	
ROM	X	15 15 48 55.1	37.7N	15.0E	5	2.2D			¶97x2669
ISC	Poorly determined								
ISC	**X**	**16 21 38 02**±1.2	**38.2N**±.13	**15.9E**±.14	**15**±10		**5**	**0-1**	
ROM	X	16 21 38 01.4	38.2N	15.9E	16	2.6D			¶97x2882
ISC	Poorly determined								
ISC	**X**	**19 11 29 28.1**±.85	**37.77N**±.057	**15.12E**±.070	**8**±9.3		**12**	**0-3**	
ROM	X	19 11 29 27.9	37.8N	15.1E	5	3.3D			¶97x3340
ISC	**X**	**21 14 45 20.3**±.86	**37.70N**±.060	**15.01E**±.093	**3**±27		**7**	**0-1**	
ROM	X	21 14 45 19.7	37.7N	15.0E	5	3.0D			¶97x3666
ISC	**X**	**21 15 35 02**±1.3	**37.80N**±.097	**15.0E**±.10	**5**±21		**5**	**0-1**	
ROM	X	21 15 35 01.1	37.8N	15.0E	5	2.4D			¶97x3672
ISC	Poorly determined								
ISC	**X**	**21 19 11 36**±1.3	**37.65N**±.084	**15.0E**±.14	**5**		**4**	**0-1**	
ROM	X	21 19 11 35.5	37.7N	15.0E	5	2.2D			¶97x3692
ISC	Poorly determined								
ISC	**X**	**22 00 26 08.1**±.83	**37.48N**±.051	**14.9E**±.10	**5**		**8**	**0-1**	
ROM	X	22 00 26 07.4	37.5N	14.9E	5	2.9D			¶97x3726
ISC	**X**	**22 00 26 53.4**±.73	**37.47N**±.068	**14.89E**±.099	**24**±12		**13**	**0-3**	
ROM	X	22 00 26 52.8	37.5N	14.9E	6	3.2D			¶97x3727
ROM	**X**	**22 00 51 01.9**	**37.5N**	**14.8E**	**5**	**2.4**D			¶97x3734
ISC	**X**	**22 02 29 38**±1.3	**37.45N**±.098	**14.8E**±.19	**16**±37		**5**	**0-2**	
ROM	X	22 02 29 36.7	37.5N	14.8E	5	2.8D			¶97x3736
ISC	Poorly determined								
ISC	**X**	**22 11 35 05.5**±.97	**37.48N**±.061	**14.9E**±.12	**5**		**6**	**0-1**	
ROM	X	22 11 35 05.0	37.5N	14.9E	5	2.7D			¶97x3803
ISC	**X**	**23 02 32 22**±1.3	**37.9N**±.12	**15.4E**±.20	**18**±23	3.8b	**6**	**0-72**	
ROM	X	23 02 32 21.7	37.9N	15.4E	10	2.5D			¶97x3913
ISC	**X**	**23 02 39 10**±1.4	**37.9N**±.11	**15.4E**±.18	**10**		**4**	**0-1**	
ROM	X	23 02 39 09.7	37.9N	15.4E	10	2.3D			¶97x3915
ISC	Poorly determined								
ISC	**X**	**24 02 42 39**±1.2	**37.7N**±.10	**13.85E**±.077	**3**±14		**8**	**0-2**	
ROM	X	24 02 42 38.6	37.7N	13.8E	5	2.7D			¶97x4097
ROM	**X**	**24 16 02 50.0**	**38.0N**	**15.3E**	**100**	**2.5**D			¶97x4193
ISC	**X**	**24 23 09 35**±1.3	**37.6N**±.11	**15.2E**±.15	**10**		**4**	**1-1**	
ROM	X	24 23 09 35.4	37.6N	15.2E	10	2.8D			¶97x4232
ISC	Poorly determined								
ISC	**X**	**28 05 24 53**±1.0	**37.56N**±.067	**15.2E**±.11	**7**±16		**7**	**1-2**	
ROM	X	28 05 24 52.0	37.6N	15.2E	5	3.0D			¶97x4716
ISC	**X**	**28 05 36 01**±1.4	**37.72N**±.095	**15.0E**±.13	**10**		**4**	**0-1**	
ROM	X	28 05 36 01.0	37.7N	15.1E	10	2.8D			¶97x4717
ISC	Poorly determined								
ISC	**X**	**29 04 28 32**±1.1	**37.60N**±.063	**15.0E**±.15	**10**		**5**	**0-1**	
ROM	X	29 04 28 31.7	37.6N	15.0E	10	2.8D			¶97x4851
ISC	**X**	**29 10 42 47**±1.1	**37.72N**±.070	**15.03E**±.099	**9**±16		**6**	**0-1**	
ROM	X	29 10 42 46.3	37.7N	15.0E	10	2.4D			¶97x4895
ISC	**X**	**29 11 32 39.7**±.92	**37.73N**±.062	**15.01E**±.085	**9**±12		**8**	**0-2**	
ROM	X	29 11 32 39.2	37.7N	15.0E	5	2.8D			¶97x4898
ISC	**X**	**29 12 02 47.8**±.98	**37.50N**±.062	**15.1E**±.12	**10**		**6**	**0-1**	
ROM	X	29 12 02 47.7	37.5N	15.1E	10	2.6D			¶97x4903
ROM	**X**	**29 23 31 50.3**	**38.4N**	**15.4E**	**91**	**2.3**D			¶97x4962
ROM	**XI**	**01 22 15 27.0**	**38.4N**	**14.9E**	**5**	**2.3**D			¶97xi0147
ISC	**XI**	**01 22 33 33**±1.4	**38.5N**±.11	**14.88E**±.095	**16**±20		**9**	**1-2**	
ROM	XI	01 22 33 33.2	38.5N	14.9E	11	2.7D			¶97xi0150
ISC	**XI**	**01 23 35 41**±6.5	**38.50N**±.082	**14.86E**±.098	**11**±59		**10**	**1-2**	
ROM	XI	01 23 35 41.5	38.5N	14.9E	10	3.0D			¶97xi0161
ISC	**XI**	**01 23 38 13**±1.0	**38.52N**±.080	**14.88E**±.091	**14**		**9**	**1-2**	
ROM	XI	01 23 38 13.1	38.5N	14.9E	14	2.7D			¶97xi0162
ROM	**XI**	**02 15 05 21.2**	**38.5N**	**14.9E**	**10**	**2.2**D			¶97xi0287

Agency	mo	Origin Time d	h	m	s	φ °	λ °	h km	Mag	n	Δ-Rng °
ROM	**XI**	**03**	**02**	**49**	**31.8**	**37.8N**	**14.9E**	**5**	**2.4D**		**¶97xi0384**
ROM	**XI**	**03**	**05**	**46**	**02.7**	**37.8N**	**15.0E**	**10**	**2.5D**		**¶97xi0416**
ROM	**XI**	**03**	**07**	**06**	**23.8**	**37.7N**	**12.8E**	**5**	**2.4D**		**¶97xi0426**
ROM	**XI**	**04**	**01**	**16**	**52.2**	**37.3N**	**16.0E**	**10**	**2.4D**		**¶97xi0551**
ROM	**XI**	**06**	**13**	**45**	**28.1**	**38.6N**	**15.4E**	**146**	**2.5D**		**¶97xi0984**
ISC	**XI**	**06**	**19**	**16**	**18**±1.6	**38.6N**±.11	**14.6E**±.13	**23**±18		**8**	**1-2**
ROM	XI	06	19	16	17.1	38.6N	14.6E	18	2.8D		**¶97xi1015**
ROM	**XI**	**07**	**22**	**17**	**34.4**	**37.7N**	**15.0E**	**15**	**2.3D**		**¶97xi1177**
ISC	**XI**	**08**	**23**	**40**	**06.2**±.91	**37.67N**±.070	**15.04E**±.080	**5**		**8**	**0-2**
ROM	XI	08	23	40	05.8	37.7N	15.0E	5	2.6D		**¶97xi1362**
ISC	**XI**	**11**	**07**	**27**	**58**±1.2	**37.58N**±.084	**15.2E**±.10	**3**±19		**6**	**1-1**
ROM	XI	11	07	27	57.7	37.6N	15.1E	10	3.0D		**¶97xi1754**
ISC	**XI**	**11**	**15**	**35**	**54**±2.1	**37.2N**±.21	**15.2E**±.20	**24**±21		**6**	**0-1**
ROM	XI	11	15	35	53.1	37.1N	15.1E	21	2.9D		**¶97xi1816**
ISC	**XI**	**11**	**18**	**44**	**12.7**±.94	**37.62N**±.071	**15.13E**±.092	**5**		**8**	**0-3**
ROM	XI	11	18	44	12.2	37.6N	15.1E	5	3.0D		**¶97xi1850**
ISC	**XI**	**11**	**20**	**44**	**31**±1.3	**38.97N**±.067	**15.4E**±.20	**14**		**6**	**1-2**
ROM	XI	11	20	44	30.9	38.9N	15.5E	14	2.7D		**¶97xi1868**
ROM	**XI**	**11**	**22**	**43**	**10.9**	**37.7N**	**14.9E**	**10**	**2.3D**		**¶97xi1889**
LDG	**XI**	**16**	**00**	**34**	**28.0**	**38.1N**	**11.4E**		**2.9L**		**¶97xi2576**
ISC	**XI**	**16**	**19**	**19**	**39**±1.1	**38.45N**±.081	**14.8E**±.11	**24**±17		**9**	**1-2**
ROM	XI	16	19	19	38.2	38.5N	14.8E	15	3.1D		**¶97xi2685**
ROM	**XI**	**16**	**20**	**30**	**44.2**	**38.5N**	**14.9E**	**16**	**2.5D**		**¶97xi2692**
ISC	**XI**	**17**	**06**	**58**	**46**±4.8	**38.7N**±.17	**14.6E**±.53	**10**		**6**	**1-2**
ROM	XI	17	06	58	43.4	38.6N	14.4E	10	3.2D		**¶97xi2755**
ISC	**XI**	**17**	**09**	**41**	**44**±1.5	**37.8N**±.12	**15.6E**±.12	**11**±19		**6**	**0-1**
ROM	XI	17	09	41	43.8	37.8N	15.6E	9	2.8D		**¶97xi2772**
ISC	**XI**	**18**	**01**	**34**	**14**±6.5	**37.9N**±.44	**15.9E**±.13	**8**±20		**5**	**0-1**
ROM	XI	18	01	34	13.6	38.0N	15.9E	15	2.4D		**¶97xi2894**
ISC	Poorly determined										
ISC	**XI**	**19**	**15**	**34**	**32**±1.9	**38.69N**±.081	**15.3E**±.23	**10**		**5**	**1-1**
ROM	XI	19	15	34	33.4	38.7N	15.5E	10	2.4D		**¶97xi3247**
ROM	**XI**	**21**	**19**	**48**	**35.4**	**37.2N**	**14.2E**	**5**	**2.6D**		**¶97xi3726**
ROM	**XI**	**26**	**07**	**58**	**13.6**	**37.7N**	**15.3E**	**10**	**2.2D**		**¶97xi4652**
ISC	**XI**	**27**	**04**	**57**	**56.0**±.72	**38.71N**±.090	**15.5E**±.30	**350**	**3.3b**	**19**	**1-76**
NEIC	XI	27	04	58	07.8	39.91N	15.13E	350	3.2b		**¶97xi4798**
EIDC	XI	27	04	58	13.5	40.4N	15.0E	358	3.1b		
NEIC	Poor solution.										
ROM	**XI**	**27**	**08**	**19**	**01.4**	**38.1N**	**15.8E**	**10**	**2.2D**		**¶97xi4831**
ISC	**XI**	**29**	**09**	**44**	**28.5**±.90	**38.96N**±.056	**15.3E**±.13	**10**		**8**	**1-2**
ROM	XI	29	09	44	28.6	38.9N	15.3E	10	2.7D		**¶97xi5240**
ROM	**XI**	**29**	**10**	**48**	**53.9**	**37.4N**	**15.2E**	**10**	**2.3D**		**¶97xi5248**
ISC	**XI**	**29**	**11**	**09**	**16.8**±.90	**38.7N**±.10	**15.9E**±.37	**141**		**7**	**1-2**
ROM	XI	29	11	09	17.1	38.7N	15.9E	141	2.6D		**¶97xi5251**
ROM	**XI**	**30**	**23**	**30**	**25.4**	**38.8N**	**15.6E**	**10**	**2.6D**		**¶97xi5480**
ISC	**XII**	**03**	**08**	**28**	**35.3**±.60	**37.62N**±.052	**15.11E**±.063	**9**		**14**	**0-7**
ROM	XII	03	08	28	35.4	37.7N	15.0E	9	3.3D		**¶97xii0383**
ISC	**XII**	**03**	**08**	**31**	**41.3**±.86	**37.64N**±.057	**15.02E**±.089	**5**±12		**9**	**0-3**
ROM	XII	03	08	31	40.9	37.7N	15.0E	5	2.8D		**¶97xii0384**
ISC	**XII**	**03**	**08**	**33**	**49.1**±.88	**37.64N**±.057	**15.0E**±.11	**5**		**7**	**0-2**
ROM	XII	03	08	33	48.8	37.6N	15.0E	5	2.5D		**¶97xii0385**
ISC	**XII**	**03**	**08**	**34**	**46**±1.0	**37.64N**±.067	**15.0E**±.13	**10**		**5**	**0-1**
ROM	XII	03	08	34	46.1	37.7N	14.9E	10	2.5D		**¶97xii0386**
ISC	**XII**	**03**	**08**	**36**	**34**±1.2	**37.65N**±.080	**15.0E**±.10	**8**±15		**6**	**0-2**
ROM	XII	03	08	36	33.1	37.7N	15.0E	5	3.0D		**¶97xii0387**
ISC	**XII**	**03**	**09**	**29**	**55.7**±.87	**37.65N**±.058	**15.02E**±.090	**5**±14		**8**	**0-2**
ROM	XII	03	09	29	55.4	37.7N	15.0E	5	2.7D		**¶97xii0399**
ISC	**XII**	**03**	**11**	**01**	**20**±1.3	**37.63N**±.093	**15.0E**±.14	**10**		**4**	**0-1**
ROM	XII	03	11	01	20.8	37.6N	15.0E	10	2.4D		**¶97xii0408**
ISC	Poorly determined										
ISC	**XII**	**03**	**12**	**36**	**32**±1.3	**37.63N**±.093	**15.0E**±.15	**10**		**4**	**0-1**
ROM	XII	03	12	36	31.8	37.7N	15.0E	10	2.1D		**¶97xii0421**
ISC	Poorly determined										
ISC	**XII**	**03**	**19**	**06**	**46.1**±.89	**37.64N**±.058	**15.03E**±.091	**4**±14		**8**	**0-2**
ROM	XII	03	19	06	45.8	37.7N	15.0E	5	2.7D		**¶97xii0482**
ISC	**XII**	**03**	**19**	**18**	**52**±1.1	**37.64N**±.055	**14.97E**±.085	**33**±11	**3.8b**	**21**	**0-49**
ROM	XII	03	19	18	51.8	37.7N	15.0E	5	3.3D		**¶97xii0486**
NEIC	XII	03	19	18	52.2	37.64N	14.98E	33			
EIDC	XII	03	19	18	53.7±2.67	38.1N	15.7E	0	3.7b,3.8L		
EIDC	Error ellipse is semi−major=52.6km semi−minor=24.1km azimuth=37										
ISC	**XII**	**03**	**19**	**32**	**18**±1.0	**37.63N**±.067	**15.0E**±.13	**10**		**5**	**0-1**
ROM	XII	03	19	32	18.3	37.7N	15.0E	10	2.4D		**¶97xii0489**
ISC	**XII**	**03**	**19**	**37**	**00.8**±.89	**37.64N**±.058	**15.03E**±.091	**4**±14		**8**	**0-2**
ROM	XII	03	19	37	00.4	37.7N	15.0E	5	2.6D		**¶97xii0491**
ROM	**XII**	**03**	**19**	**41**	**44.6**	**37.7N**	**15.0E**	**10**	**2.1D**		**¶97xii0492**
ISC	**XII**	**03**	**20**	**22**	**27**±1.0	**37.64N**±.065	**15.0E**±.11	**4**±20		**6**	**0-1**
ROM	XII	03	20	22	27.4	37.7N	15.0E	10	2.6D		**¶97xii0496**
ISC	**XII**	**04**	**08**	**17**	**47.0**±.85	**37.68N**±.058	**15.02E**±.088	**6**±13		**8**	**0-2**
ROM	XII	04	08	17	46.6	37.7N	15.0E	7	2.8D		**¶97xii0579**
ROM	**XII**	**08**	**15**	**24**	**50.6**	**38.6N**	**15.9E**	**10**	**1.8D**		**¶97xii1948**
ISC	**XII**	**09**	**17**	**34**	**45**±1.0	**37.69N**±.066	**15.0E**±.10	**4**±20		**6**	**0-1**
ROM	XII	09	17	34	45.5	37.7N	15.0E	10	2.3D		**¶97xii2208**
ISC	**XII**	**10**	**00**	**43**	**03.9**±.81	**37.71N**±.059	**15.02E**±.086	**5**		**7**	**0-2**
ROM	XII	10	00	43	03.4	37.7N	15.0E	5	2.7D		**¶97xii2271**
ISC	**XII**	**11**	**18**	**15**	**22.7**±.88	**37.66N**±.062	**14.9E**±.10	**10**		**6**	**0-1**
ROM	XII	11	18	15	22.8	37.7N	14.9E	10	2.4D		**¶97xii2617**
ISC	**XII**	**12**	**04**	**33**	**43.5**±.99	**37.68N**±.077	**15.10E**±.091	**5**		**6**	**0-2**
ROM	XII	12	04	33	43.7	37.7N	15.1E	5	2.3D		**¶97xii2693**
ISC	**XII**	**13**	**04**	**30**	**07.7**±.22	**38.92N**±.028	**13.87E**±.025	**411**±2.4	**4.3b**	**271**	**1-151**
ROM	XII	13	04	29	50.9	38.6N	14.1E	540	3.0D		**¶97xii2886**
EIDC	XII	13	04	30	07.3±2.34	38.9N	13.8E	388±25.1	3.9b		
NEIC	XII	13	04	30	07.7	38.92N	13.86E	412	4.4b		
STR	XII	13	04	30	13.1	39.38N	13.98E	400	4.7L		
EIDC	Error ellipse is semi−major=18.7km semi−minor=14.0km azimuth=115										
ROM	**XII**	**13**	**20**	**42**	**02.7**	**38.0N**	**14.1E**	**5**	**2.3D**		**¶97xii3018**
ISC	**XII**	**15**	**13**	**04**	**07**±4.1	**38.5N**±.28	**14.7E**±.14	**5**		**6**	**1-2**
ROM	XII	15	13	04	09.1	38.4N	14.7E	5	2.5D		**¶97xii3290**
ISC	**XII**	**16**	**05**	**03**	**23**±5.5	**38.5N**±.36	**14.9E**±.16	**8**±23		**5**	**1-1**
ROM	XII	16	05	03	23.0	38.4N	14.8E	5	2.9D		**¶97xii3387**
ISC	Poorly determined										
ISC	**XII**	**18**	**01**	**43**	**06.1**±.88	**37.72N**±.060	**14.95E**±.088	**5**		**6**	**0-1**
ROM	XII	18	01	43	05.8	37.7N	14.9E	5	2.6D		**¶97xii3691**
ISC	**XII**	**18**	**02**	**05**	**44.9**±.63	**37.76N**±.060	**14.99E**±.070	**24**±9.6		**14**	**0-3**
ROM	XII	18	02	05	44.1	37.7N	15.0E	8	3.3D		**¶97xii3693**
ISC	**XII**	**18**	**02**	**21**	**03.2**±.83	**37.75N**±.088	**14.97E**±.086	**23**±15		**8**	**0-2**
ROM	XII	18	02	21	01.8	37.7N	15.0E	5	2.6D		**¶97xii3696**
ISC	**XII**	**18**	**02**	**39**	**38.5**±.95	**37.67N**±.061	**15.03E**±.084	**6**±13		**8**	**0-2**
ROM	XII	18	02	39	38.1	37.7N	15.0E	5	2.8D		**¶97xii3700**
ISC	**XII**	**19**	**05**	**38**	**25**±1.0	**37.73N**±.066	**15.09E**±.093	**5**±16		**7**	**0-2**
ROM	XII	19	05	38	24.2	37.7N	15.1E	5	2.7D		**¶97xii3899**
ISC	**XII**	**23**	**10**	**53**	**26**±1.1	**37.51N**±.078	**14.8E**±.13	**8**		**5**	**0-1**
ROM	XII	23	10	53	25.4	37.5N	14.8E	8	2.7D		**¶97xii4585**
ROM	**XII**	**23**	**23**	**11**	**23.0**	**37.9N**	**14.1E**	**5**	**2.2D**		**¶97xii4665**
ISC	**XII**	**24**	**09**	**31**	**59**±1.1	**37.67N**±.081	**15.1E**±.10	**8**±15		**9**	**1-3**
ROM	XII	24	09	31	58.7	37.7N	15.1E	5	3.0D		**¶97xii4731**
ISC	**XII**	**24**	**09**	**40**	**08.2**±.61	**37.72N**±.040	**15.16E**±.039	**21**±5.9	**3.8b,3.7s**	**75**	**0-74**
PDG	XII	24	09	40	04.3	37.5N	14.9E	200	4.5L		**¶97xii4733**
NEIC	XII	24	09	40	07.1	37.72N	15.07E	10	4.2b		
ROM	XII	24	09	40	07.7	37.7N	15.1E	5	4.1D		
EIDC	XII	24	09	40	07.8±.96	37.9N	15.4E	0	3.9s,3.8b		
EIDC	Error ellipse is semi−major=33.0km semi−minor=16.7km azimuth=84										
ISC	**XII**	**24**	**10**	**21**	**53.6**±.84	**37.69N**±.059	**15.02E**±.086	**5**		**7**	**0-1**
ROM	XII	24	10	21	53.3	37.7N	15.0E	5	2.4D		**¶97xii4745**
ROM	**XII**	**24**	**10**	**32**	**30.2**	**37.6N**	**15.0E**	**10**	**2.4D**		**¶97xii4746**
ISC	**XII**	**24**	**10**	**58**	**08.0**±.89	**37.68N**±.061	**15.07E**±.095	**5**		**6**	**0-1**
ROM	XII	24	10	58	07.7	37.7N	15.0E	5	2.5D		**¶97xii4749**
ISC	**XII**	**24**	**11**	**09**	**45**±1.4	**37.62N**±.087	**15.1E**±.12	**2**±23		**5**	**0-1**
ROM	XII	24	11	09	45.2	37.6N	15.1E	5	2.3D		**¶97xii4750**
ISC	Poorly determined										
ISC	**XII**	**25**	**08**	**08**	**17.6**±.76	**37.69N**±.056	**15.07E**±.079	**5**		**8**	**0-1**
ROM	XII	25	08	08	17.5	37.7N	15.0E	5	3.2D		**¶97xii4893**
ISC	**XII**	**25**	**08**	**13**	**24.3**±.81	**37.68N**±.056	**15.04E**±.087	**5**		**7**	**0-1**
ROM	XII	25	08	13	23.7	37.7N	15.0E	5	2.8D		**¶97xii4894**
ISC	**XII**	**27**	**04**	**39**	**01.0**±.88	**37.71N**±.060	**14.98E**±.093	**5**		**6**	**0-1**
ROM	XII	27	04	39	00.5	37.7N	15.0E	5	2.6D		**¶97xii5248**
ROM	**XII**	**29**	**17**	**52**	**02.7**	**38.6N**	**15.5E**	**5**	**2.4D**		**¶97xii5618**

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ISC	**VII**	**05**	**20**	**18**	**09.8**±.54	**37.75N**±.050	**16.70E**±.038	**56**±8.6	**3.7b**	**71**	**1-25**
ROM	VII	05	20	18	06.6	37.5N	16.8E	17	3.7D		**¶97vii0784**
NEIC	VII	05	20	18	07.8	37.58N	16.80E	33	3.8b		
THE	VII	05	20	18	14.8	38.1N	17.1E	4	4.2L		
PDG	VII	05	20	18	18.4	38.6N	16.5E	51	4.5L,4.4D		
ATH	**VII**	**11**	**19**	**03**	**14.8**	**37.24N**	**20.24E**	**10**			**¶97vii1717**
ISC	**VII**	**18**	**15**	**31**	**46.1**±.48	**37.48N**±.038	**20.85E**±.034	**50**±5.1	**4.0b**,3.5s	**108**	**1-132**
NEIC	VII	18	15	31	44.2	37.42N	20.97E	33	4.3b		**¶97vii2760**
ATH	VII	18	15	31	44.6	37.48N	20.83E	5	3.8L		
THE	VII	18	15	31	45.5	37.5N	21.0E	1	4.0L		
EIDC	VII	18	15	31	47.5	37.5N	20.9E	44	3.9b,4.1L		
PDG	VII	18	15	31	59.4	38.3N	19.4E	45	4.0L		
ISC	**VII**	**24**	**10**	**21**	**18**±1.3	**37.25N**±.090	**16.19E**±.078	**19**±15		**16**	**1-6**
ROM	VII	24	10	21	18.4	37.4N	16.0E	5	3.3D		**¶97vii3659**
ISC	**VII**	**31**	**02**	**48**	**04**±3.1	**37.6N**±.16	**20.9E**±.24	**5**		**4**	**1-2**
ATH	VII	31	02	48	03.7	37.51N	20.76E	5	2.9D		**¶97vii4668**
ISC	Poorly determined										
ATH	**VII**	**31**	**20**	**28**	**49.5**	**37.49N**	**20.49E**	**8**	**3.1D**		**¶97vii4785**
ATH	**VIII**	**01**	**00**	**09**	**11.2**	**37.20N**	**20.29E**	**10**	**2.9D**		**¶97viii0002**
ATH	**VIII**	**01**	**03**	**23**	**24.1**	**37.70N**	**20.86E**	**10**	**2.9D**		**¶97viii0020**
ISC	**VIII**	**02**	**01**	**47**	**32**±6.2	**37.4N**±.27	**20.6E**±.50	**5**		**5**	**1-2**
ATH	VIII	02	01	47	33.7	37.46N	20.60E	5	3.3D		**¶97viii0148**
ISC	**VIII**	**03**	**03**	**39**	**26.6**±.52	**37.44N**±.042	**20.79E**±.041	**55**±6.7	**3.8b,3.4s**	**97**	**1-122**
EIDC	VIII	03	03	39	21.9	37.6N	20.8E	0	3.7s,3.9b		**¶97viii0292**
ATH	VIII	03	03	39	25.0	37.44N	20.78E	5	4.0L		
NEIC	VIII	03	03	39	25.2	37.43N	20.88E	38	4.0b		
THE	VIII	03	03	39	30.1	37.8N	21.0E	3	3.7L		
NEIC	$M_{L3.7}$(ROM).										
ISC	**VIII**	**03**	**05**	**25**	**00**±3.4	**37.4N**±.15	**20.7E**±.28	**5**		**5**	**1-2**
ATH	VIII	03	05	25	01.3	37.42N	20.66E	5	3.1D		**¶97viii0307**
ISC	**VIII**	**03**	**08**	**20**	**49.1**±.58	**37.94N**±.056	**16.89E**±.053	**64**±7.9	**3.5b**	**45**	**1-48**
EIDC	VIII	03	08	20	36.7	37.3N	15.9E	0	3.5b,4.0L		**¶97viii0334**
ROM	VIII	03	08	20	44.7	37.7N	17.1E	10	3.4D		
NEIC	VIII	03	08	20	50.2	37.91N	16.72E	75	3.4b		
PDG	VIII	03	08	20	55.6	38.6N	16.5E	90	4.1L		
NEIC	Less reliable solution.										
ISC	**VIII**	**04**	**00**	**05**	**27**±2.1	**37.5N**±.11	**20.8E**±.17	**3**		**9**	**1-3**
THE	VIII	04	00	05	26.4	37.4N	20.7E	3	3.3L		**¶97viii0433**
ATH	VIII	04	00	05	28.8	37.50N	20.79E	5	3.3D		
ISC	**VIII**	**04**	**20**	**35**	**32**±2.8	**37.34N**±.084	**20.4E**±.13	**2**±16	**3.6b**	**23**	**1-32**
EIDC	VIII	04	20	35	32.5	37.5N	21.3E	0	3.6b,3.5L		**¶97viii0547**
ATH	VIII	04	20	35	35.5	37.39N	20.54E	5	3.3D		
ISC	**VIII**	**07**	**03**	**45**	**29**±1.7	**37.33N**±.068	**20.59E**±.081	**6**±12	**3.4b**	**27**	**1-32**
EIDC	VIII	07	03	45	27.4	37.5N	21.7E	0	3.6b,3.6L		**¶97viii0879**
ROM	VIII	07	03	45	32.3	37.3N	20.5E	10	3.1D		
ATH	VIII	07	03	45	33.9	37.49N	20.87E	5	3.4D		
THE	VIII	07	03	45	37.6	37.6N	21.2E	3	2.3L		
ISC	**VIII**	**12**	**06**	**00**	**54**±4.5	**37.3N**±.22	**20.7E**±.36	**5**		**4**	**1-2**
ATH	VIII	12	06	00	55.0	37.26N	20.62E	5	2.9D		**¶97viii1686**
ISC	Poorly determined										
ISC	**VIII**	**12**	**06**	**02**	**18.5**±.89	**37.18N**±.077	**20.57E**±.066	**5**		**16**	**1-5**
ATH	VIII	12	06	02	21.2	37.29N	20.62E	5	3.3D		**¶97viii1687**
THE	VIII	12	06	02	22.1	37.3N	20.7E	3	3.3L		
ISC	**VIII**	**12**	**06**	**41**	**43**±4.5	**37.4N**±.21	**20.7E**±.31	**5**		**4**	**1-2**
ATH	VIII	12	06	41	43.2	37.35N	20.63E	5	2.8D		**¶97viii1691**
ISC	Poorly determined										
ISC	**VIII**	**14**	**08**	**56**	**04**±2.2	**37.6N**±.11	**20.6E**±.19	**5**		**18**	**1-4**
ATH	VIII	14	08	56	03.6	37.56N	20.57E	5	3.5L		**¶97viii2034**
THE	VIII	14	08	56	15.4	38.0N	21.3E	21	3.0L		
ISC	**VIII**	**14**	**10**	**05**	**05**±7.2	**37.5N**±.21	**20.2E**±.57	**5**		**8**	**1-3**
ATH	VIII	14	10	05	10.5	37.52N	20.46E	5	3.5L		**¶97viii2042**
THE	VIII	14	10	05	16.2	37.9N	20.7E	2	3.4L		
ISC	**VIII**	**15**	**21**	**05**	**15**±7.6	**37.5N**±.31	**20.8E**±.47	**3**±38		**6**	**1-4**
ATH	VIII	15	21	05	15.5	37.43N	20.73E	5	3.2D		**¶97viii2273**
ISC	**VIII**	**19**	**08**	**51**	**52**±2.0	**37.8N**±.12	**16.0E**±.21	**61**±18		**11**	**0-3**
ROM	VIII	19	08	51	51.9	37.7N	16.1E	45	2.8D		**¶97viii2785**
ATH	**VIII**	**27**	**16**	**00**	**18.6**	**37.22N**	**20.32E**	**15**	**2.8D**		**¶97viii4011**
ISC	**VIII**	**30**	**00**	**15**	**33**±3.7	**38.0N**±.11	**20.3E**±.25	**1**±25		**7**	**0-2**
THE	VIII	30	00	15	36.9	38.0N	20.4E	6	3.1L		**¶97viii4399**
ATH	VIII	30	00	15	37.6	38.11N	20.43E	5	3.1D		
ATH	**VIII**	**30**	**02**	**50**	**50.2**	**37.7N**	**20.36E**	**5**	**2.8D**		**¶97viii4414**
ISC	**VIII**	**30**	**05**	**52**	**12.7**±.45	**37.64N**±.035	**20.84E**±.036	**47**±5.4	**4.2b**	**101**	**1-122**
NEIC	VIII	30	05	52	11.0	37.59N	20.94E	33	4.2b		**¶97viii4434**
ATH	VIII	30	05	52	11.9	37.57N	20.96E	5	3.9L		
THE	VIII	30	05	52	15.6	37.7N	21.3E	6	3.9L		
EIDC	VIII	30	05	52	16.5	37.7N	21.3E	62	4.0b,4.1L		
PDG	VIII	30	05	52	21.0	38.3N	20.2E	30	4.1L		
ISC	**VIII**	**31**	**04**	**14**	**02**±5.9	**37.3N**±.32	**20.8E**±.50	**5**		**4**	**1-2**
ATH	VIII	31	04	14	04.6	37.44N	20.85E	5	2.8D		**¶97viii4582**
ISC	Poorly determined										

ISC	**IX**	**02 03 16 36**±2.7	**37.4N**±.16	**20.7E**±.22	**5**		**16**	**1-5**	
ATH	IX	02 03 16 37.4	37.40N	20.66E	5	3.4D			¶97ix0211
THE	IX	02 03 16 38.7	37.5N	20.8E	0				
ISC	**IX**	**02 07 41 55**±3.1	**37.5N**±.17	**20.7E**±.28	**5**		**6**	**1-2**	
ATH	IX	02 07 41 53.1	37.40N	20.43E	5	3.1D			¶97ix0236
THE	IX	02 07 41 56.9	37.5N	20.7E	2				
ISC	**IX**	**02 09 29 24.3**±.86	**37.04N**±.083	**20.42E**±.058	**10**		**18**	**1-5**	
ROM	IX	02 09 29 25.3	36.9N	20.5E	10	3.3D			¶97ix0252
ATH	IX	02 09 29 25.5	37.07N	20.40E	5	3.6L			
ISC	**IX**	**14 10 05 24**±2.2	**37.5N**±.12	**21.0E**±.19	**5**		**13**	**1-5**	
ATH	IX	14 10 05 23.4	37.37N	20.78E	5	3.4L			¶97ix2103
THE	IX	14 10 05 30.3	37.7N	21.5E	0	2.7L			
ATH	**IX**	**16 13 04 22.9**	**37.36N**	**20.37E**	**10**	**3.0D**			¶97ix2386
ISC	**IX**	**22 07 28 36.8**±.75	**37.35N**±.073	**20.16E**±.054	**1**		**31**	**1-5**	
THE	IX	22 07 28 48.7	37.6N	21.1E	1	3.5L			¶97ix3241
ATH	IX	22 07 28 50.2	37.54N	21.10E	22	3.6D			
ATH	**IX**	**30 18 28 00.5**	**37.31N**	**19.97E**	**5**	**3.1D**			¶97ix5289
ATH	**X**	**01 13 40 47.4**	**37.32N**	**20.46E**	**5**	**3.0D**			¶97x0095
ATH	**X**	**02 18 44 04.7**	**37.28N**	**20.58E**	**5**	**2.9D**			¶97x0325
ISC	**X**	**09 02 34 46**±2.9	**37.4N**±.13	**20.7E**±.26	**5**		**10**	**1-4**	
ATH	X	09 02 34 45.9	37.30N	20.65E	5	3.2D			¶97x1509
THE	X	09 02 34 47.4	37.4N	20.8E	1				
ISC	**X**	**09 09 27 26**±6.7	**37.4N**±.37	**20.6E**±.64	**5**		**4**	**1-2**	
ATH	X	09 09 27 25.6	37.33N	20.63E	5	2.9D			¶97x1564
ISC	Poorly determined								
ISC	**X**	**13 23 12 16**±1.3	**37.32N**±.081	**20.39E**±.069	**25**±13		**20**	**1-5**	
THE	X	13 23 12 16.7	37.4N	20.5E	3	3.2L			¶97x2301
ATH	X	13 23 12 19.2	37.44N	20.73E	5	3.5D			
ATH	**X**	**18 02 56 25.4**	**37.41N**	**20.78E**	**10**	**2.8D**			¶97x3091
ATH	**X**	**19 12 29 09.7**	**37.56N**	**20.79E**	**23**	**2.9D**			¶97x3347
ISC	**X**	**19 13 40 40**±6.1	**37.4N**±.26	**16.1E**±.56	**13**		**5**	**1-1**	
ROM	X	19 13 40 41.2	37.5N	15.9E	13	2.7D			¶97x3355
ATH	**X**	**26 23 43 19.6**	**37.30N**	**20.47E**	**5**	**3.1D**			¶97x4537
ATH	**X**	**27 01 07 56.4**	**37.66N**	**20.86E**	**5**				¶97x4547
ISC	**X**	**27 01 29 30**±1.2	**37.42N**±.064	**20.67E**±.052	**3**±9.3	**3.7b**	**43**	**1-24**	
EIDC	X	27 01 29 26.8	37.2N	21.0E	0	3.8b,3.6L			¶97x4551
ATH	X	27 01 29 33.4	37.44N	20.70E	5	3.5L			
NEIC	X	27 01 29 33.7	37.50N	20.68E	33	3.6b			
THE	X	27 01 29 35.3	37.6N	20.9E	1	3.3L			
NEIC	Less reliable solution.								
ATH	**XI**	**06 20 29 19.9**	**37.19N**	**20.63E**	**5**	**2.9D**			¶97xi1028
ISC	**XI**	**10 00 55 07**±1.4	**37.92N**±.079	**20.7E**±.11	**6**±9.2		**24**	**0-4**	
NEIC	XI	10 00 55 02.9	37.77N	20.25E	10				¶97xi1534
ATH	XI	10 00 55 08.7	37.91N	20.69E	5	3.6L			
NEIC	Poor solution.								
ATH	**XI**	**11 04 06 48.3**	**37.05N**	**20.81E**	**5**	**2.9D**			¶97xi1728
ISC	**XI**	**12 11 19 22**±1.6	**37.8N**±.12	**20.8E**±.17	**5**		**10**	**0-4**	
ATH	XI	12 11 19 23.6	37.93N	20.89E	5	3.5L			¶97xi1973
ISC	**XI**	**15 05 18 39**±4.6	**39.0N**±.30	**20.0E**±.37	**49**		**6**	**1-2**	
ATH	XI	15 05 18 41.6	39.29N	20.22E	49	2.9D			¶97xi2421
ISC	**XI**	**16 18 38 49**±6.0	**37.1N**±.33	**20.2E**±.39	**10**		**8**	**1-5**	
ATH	XI	16 18 38 51.6	37.20N	20.33E	10	3.5D			¶97xi2683
ISC	**XI**	**18 13 07 38.3**±.12	**37.48N**±.016	**20.69E**±.014	**10**	**5.8b,6.5s**	**711**	**1-147**	
PDG	XI	18 13 07 34.0	37.0N	19.6E	10	6.1D			¶97xi2964
ATH	XI	18 13 07 36.9	37.26N	20.49E	5	6.1L			
EIDC	XI	18 13 07 38.3	37.5N	20.8E	0	5.4b,6.6s			
CSEM	XI	18 13 07 39.2	37.49N	20.54E	15				
RYD	XI	18 13 07 39.2	37.49N	20.54E	10	5.8b			
THE	XI	18 13 07 39.7	37.4N	20.6E	10	6.1L			
NEIC	XI	18 13 07 41.7	37.57N	20.66E	33	5.9b,6.4s			
MOS	XI	18 13 07 42.1	37.6N	20.7E	33	6.1b,6.6s			
BJI	XI	18 13 07 42.5	37.58N	20.69E	48	5.8b,6.8s			
HRVD	XI	18 13 07 52.9±.1	37.33N±.01	20.84E±.01	23±.8				

ATH Felt in the regions of Heleia, I=VI−V MCS at Andravida, Vardas, Avgeio, Vounargo, Vrina, Krestena, VI at Gastouni, Agios−Georgios, Vytinaiika, Gryllos, Pefkes, Chelidoni, V−VI at Kakovatos, Pelopio, Skilluntia, Keramidia, Katakolo, Nea−Manolada, Kapeleto, Savalia, Myronia, Nemouta, Dragonio, Skourochori, Myrsini, Irakleia, Goumero, Kakotario, Matesi, Koumanis, Agia−Mavra, Samiko, Lanthio, Graikas, Kardamas, Platanos, V at Milea, Tsipiana, Chavario, Antronio, Oinoi, Ephyra, Simopoulo, Lechaina, Anthonas, Theisoa, IV−V at Tragano, Achladini, IV at Agia−Kyriaki, Neochori, III at Anthochori; in Messinia, V−VI at Messini, Psari, Sidirokastro, Thouria, Kampos, Androusa, Arphara, Petalidi, Pilalistra, Eva, Oichalia, Avramio, Platy, V at Dorio, Vasiliko, Melpeia, Vasilitsi, Verga, IV−V at Nedousa, Zermpisia; in Achaia, V at Starochori, Arla, Kerpini, Sagaiika, Mitopoli, Vrachnaiika, Diakophto, Platanos, Isoma, Livartzi, Ovria, Kankadi, Daphnes, Zarouchla, IV−V at Vorino, Kalentzi, Akrata, Ano−Kastritsi, IV at Daphni, Elaionas, Chalandritsa, Kato−Kleitoria, Ano−Kleitoria, Mintilogli, Aigeira, Longos, Drosia, Lousika, Pliilia, Manesi, Kato−Vlassia, Ziria, Myrtos, Krinos, Kalphas, III at Kamares, Aroania, Skepasto, Lykouria, Kertezi, Krinophyta, Kalliphonio, Kounina.

ATH Felt in the regions of Lakonia, I=V MCS at Vlachiotis, Amykles, Agios−Ioannis, IV−V at Kastoreio, IV at Gytheio, Xirokampi, Karyes, Sellasia, Skala, Vrontamas, Sykea, Mystras, Daphnio, Vresthena, Pappadianika, Skoura, Niata, Neapoli, III at Molaoi, Longanikos; in Korinthia, IV−V at Nemea, Velo, IV at Isthmia, Zevgolateio, Sophiko, Athikia, Agios−Vasileios, III at Loutraki; in Argolida, IV−V at Nea−Kios, IV at Nafplio, Ermioni, Assini, Karya, Agia−Triada, III at Lygourio; in Larisa, III at Larisa; and on the Islands of Zakynthos, VI at Keri, Lithakia, V−VI at Agalas, Maries, Mouzaki, V at Zakynthos, Volimes, Ampelokipoi; on Kephallinia, IV−V at Metaxata, IV at Argostoli, Agios−Nikolaos, Karavomylos, Skala, Agia−Eirini, Svoronata, Agia−Thekla, Poros, Sami, Spartia; on Ithaki, IV−V at Ithaki; on Lefkada, IV at Lefkada, Agios−Ilias, Poros, Syvros, Karya; on Kerkyra, IV at Magoulades, Ano−Korakiana, Kavvadades, Pagoi, Karousades, III at Kerkyra, Agios−Matthaios, Peroulades, Liapades, Spartylas, Sokraki, Velonades, Agioi−Deka; on Kalamos, III at Kalamos; on Paxoi, III at Paxoi.

CSEM Mw6.2. M_0=2.6±0.9×10^{18}Nm. Fault plane solution NP1:ϕ_S222°,δ50°,λ146°. NP2:ϕ_S335°, δ65°,λ45°. Principal Axes: T Plg49°,Azm196°; N Plg39°,Azm358°; P Plg9°,Azm96°.

CSEM Mw6.3. M_0=3.1?±2.0×10^{18}Nm. Fault plane solution. NP1:ϕ_S191°,δ23°,λ−7°. NP2:ϕ_S287°, δ87°,λ−113°. Principal axes: T Plg38°,Azm38°; N Plg23°,Azm289°; P Plg43°,Azm175°

NEIC Mw6.6(HRV), Me6.2(GS). Casualties.

NEIC Radiated energy from the USGS moment tensor solution: 4.1±0.8×10^{13}Nm/21

NEIC Moment tensor solution: s50, scale 10^{18}Nm; M_{rr}1.92; $M_{\theta\theta}$0.03; $M_{\phi\phi}$−1.95; $M_{r\theta}$3.26; $M_{r\phi}$−1.23; $M_{\theta\phi}$1.45. Depth 35km; Principal axes: T 4.37,Plg53°,Azm2°; N −0.27,Plg23°, Azm126°; P −4.10,Plg27°,Azm228°. Best double couple: $M_0$4.2×10^{18}Nm; NP1:ϕ_S0°,δ27°, λ148°. NP2:ϕ_S120°,δ76°,λ67°.

NEIC Mw 6.4 (GS), 6.3 (CSEM). Ms 6.3 (BRK). ML 6.1 (THE). Several people injured and considerable damage to buildings at Amalias, Gargalianoi, Kalamai, Kiparissia, Meligalas, Pirgos and other parts of western Peloponnisos. One house destroyed on Zakinthos. Felt in much of Greece as far as Crete. Also felt on Sicily. Complex event observed on broadband displacement seismograms.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c93; Mantle waves: s31,c70; Half duration: 4s9. Moment tensor: Scale 10^{18}Nm; M_{rr}2.23±.05; $M_{\theta\theta}$0.79±.05; $M_{\phi\phi}$−3.02±.05; $M_{r\theta}$6.72±.29; $M_{r\phi}$−2.96±.18; $M_{\theta\phi}$4.59±.05. Principal Axes: T 8.35,Plg46°,Azm352°; N 1.31,Plg30°,Azm118°; P −9.66,Plg30°,Azm227°. Best double couple: $M_0$9.0×10^{18}Nm, NP1:ϕ_S8°,δ31°,λ162°. NP2:ϕ_S113°,δ81°,λ60°.

ISC	**XI**	**18 13 13 48.7**±.61	**37.48N**±.042	**20.91E**±.029	**46**±4.8	**5.3b**	**265**	**1-147**	
PDG	XI	18 13 13 43.7	37.2N	19.1E	10	5.6D			¶97xi2966
MOS	XI	18 13 13 46.0	37.2N	20.8E	33	5.9b			
NEIC	XI	18 13 13 46.1	37.28N	20.88E	33	5.4b			
THE	XI	18 13 13 46.3	37.2N	21.1E	10	5.5L			
BJI	XI	18 13 13 47.3	36.88N	21.24E	56	5.6b,6.6s			
EIDC	XI	18 13 13 47.8	37.5N	21.1E	25	5.0b,5.1L			
ATH	XI	18 13 13 48.3	37.36N	20.65E	5	5.6L			
ISC	**XI**	**18 13 22 50.5**±.49	**37.48N**±.035	**20.87E**±.027	**35**±4.6	**4.8b**	**196**	**1-147**	
ATH	XI	18 13 22 45.1	37.18N	20.56E	5	4.8L			¶97xi2967
PDG	XI	18 13 22 45.5	37.1N	19.6E	16	4.7L			
NEIC	XI	18 13 22 46.4	37.37N	21.01E	10	4.9b			
EIDC	XI	18 13 22 47.0	37.5N	21.0E	0	4.7b,4.5L			
BJI	XI	18 13 22 48.5	37.13N	21.30E	27	5.1b			
MOS	XI	18 13 22 52.1	37.7N	20.8E	33	5.2b			
ISC	**XI**	**18 13 34 40**±1.2	**37.53N**±.084	**20.9E**±.16	**97**±14	**4.0b**	**15**	**2-41**	
EIDC	XI	18 13 34 30.7	37.5N	21.1E	0	4.2b,4.1L			¶97xi2972
NEIC	XI	18 13 34 33.8	37.50N	21.00E	33	4.3b			
ATH	XI	18 13 34 42.3	37.55N	21.00E	35	3.7L			
NEIC	Less reliable solution.								
ISC	**XI**	**18 13 44 06.5**±.57	**37.56N**±.044	**20.82E**±.032	**49**±5.1	**4.4b**	**134**	**1-147**	
EIDC	XI	18 13 44 01.3	37.5N	20.9E	0	4.4b,4.3L			¶97xi2975
ATH	XI	18 13 44 03.3	37.37N	20.29E	39	4.8L			
BJI	XI	18 13 44 04.6	37.50N	20.80E	33	4.8b			
NEIC	XI	18 13 44 04.6	37.48N	20.86E	33	4.6b			
MOS	XI	18 13 44 05.7	37.6N	20.9E	33	5.0b			
ISC	**XI**	**18 13 48 01.9**±.70	**37.36N**±.062	**20.54E**±.087	**5**	**4.0b**	**23**	**1-122**	
EIDC	XI	18 13 48 02.1	37.5N	20.9E	0	4.1b,4.0L			¶97xi2977
NEIC	XI	18 13 48 04.9	37.48N	20.90E	33				
ATH	XI	18 13 48 08.0	37.58N	20.79E	5	3.8L			
NEIC	Less reliable solution.								
ISC	**XI**	**18 14 10 24.0**±.96	**37.59N**±.083	**21.0E**±.10	**71**±8.4	**3.6b**	**22**	**1-78**	
EIDC	XI	18 14 10 16.4	37.5N	21.3E	0	3.8b,3.9L			¶97xi2983
NEIC	XI	18 14 10 19.1	37.44N	21.21E	33				
ATH	XI	18 14 10 24.8	37.71N	21.15E	10	3.5L			
NEIC	Less reliable solution.								
ISC	**XI**	**18 14 16 07**±1.3	**37.18N**±.098	**20.8E**±.10	**33**	**3.7b**	**30**	**2-33**	
ATH	XI	18 14 16 15.4	37.37N	21.62E	10	3.4L			¶97xi2985
EIDC	XI	18 14 16 40.0	40.9N	20.3E	0	3.6b,3.8L			
NEIC	XI	18 14 16 42.6	40.97N	19.73E	33	4.1b			
NEIC	Less reliable solution.								
ISC	**XI**	**18 14 25 29.5**±.90	**37.39N**±.068	**20.96E**±.046	**51**±7.6	**4.1b**	**84**	**1-122**	
EIDC	XI	18 14 25 24.5	37.4N	21.2E	0	4.2b,4.2L			¶97xi2987
ATH	XI	18 14 25 25.0	37.12N	20.29E	5	4.3L			
PDG	XI	18 14 25 25.9	37.1N	20.0E	12	4.2L			
BJI	XI	18 14 25 26.5	37.05N	21.20E	37				
NEIC	XI	18 14 25 27.6	37.39N	21.13E	33	4.3b			
ISC	**XI**	**18 14 46 37**±4.4	**37.4N**±.24	**20.6E**±.17	**25**±20	**3.7b**	**17**	**1-70**	
NEIC	XI	18 14 46 38.0	37.61N	20.85E	33	4.3b			¶97xi2989
EIDC	XI	18 14 46 38.2	38.0N	21.5E	0	3.7b			
ATH	XI	18 14 46 39.8	37.47N	20.85E	5				
NEIC	Poor solution.								
ISC	**XI**	**18 15 01 17**±6.8	**37.2N**±.35	**20.2E**±.55	**10**		**12**	**1-5**	
ATH	XI	18 15 01 20.9	37.36N	20.42E	10	3.7L			¶97xi2993
ISC	**XI**	**18 15 10 22.6**±.80	**37.44N**±.061	**20.96E**±.048	**46**±7.0	**4.1b**	**74**	**1-122**	
EIDC	XI	18 15 10 18.0	37.4N	21.4E	0	4.2b,4.3L			¶97xi2995
PDG	XI	18 15 10 19.7	37.2N	20.5E	15	4.1L			
NEIC	XI	18 15 10 20.7	37.35N	21.19E	33	4.2b			
BJI	XI	18 15 10 22.9	37.33N	21.40E	39	4.6b			
ATH	XI	18 15 10 27.3	37.54N	21.61E	5	3.7L			
NEIC	Less reliable solution.								
ISC	**XI**	**18 15 37 34**±2.6	**37.6N**±.14	**20.8E**±.21	**5**		**12**	**1-5**	
ATH	XI	18 15 37 34.4	37.49N	20.57E	5	3.7L			¶97xi2998
ISC	**XI**	**18 16 20 03.8**±.63	**37.30N**±.043	**20.89E**±.040	**34**±7.0	**4.1b**	**103**	**1-122**	
EIDC	XI	18 16 20 01.1	37.4N	21.1E	0	4.2b,4.1L			¶97xi3006
BJI	XI	18 16 20 03.2	37.30N	20.90E	33	4.6b			
NEIC	XI	18 16 20 03.2	37.34N	20.97E	33	4.3b			
PDG	XI	18 16 20 04.3	37.4N	19.2E	11	4.1L			
ATH	XI	18 16 20 08.2	37.76N	21.20E	5	4.0L			
ISC	**XI**	**18 16 44 09**±12	**37.5N**±.88	**20.6E**±.52	**100**		**9**	**2-4**	
									¶97xi3009
ISC	**XI**	**18 16 51 07**±1.2	**37.30N**±.085	**20.96E**±.093	**48**±9.7	**3.8b**	**41**	**1-122**	
EIDC	XI	18 16 51 02.7	37.3N	21.1E	0	3.9b,4.1L			¶97xi3011
NEIC	XI	18 16 51 05.6	37.26N	21.03E	33	4.0b			
THE	XI	18 16 51 08.8	37.5N	21.1E	10	3.6L			
ATH	XI	18 16 51 10.1	37.46N	20.92E	5	3.7L			
ISC	**XI**	**18 16 59 53**±4.9	**37.1N**±.32	**21.0E**±.29	**10**		**11**	**2-5**	
THE	XI	18 16 59 53.1	37.1N	21.1E	10				¶97xi3013
ATH	XI	18 16 59 56.5	37.04N	20.91E	39	3.7L			
ISC	**XI**	**18 17 24 56.0**±.59	**37.49N**±.050	**20.78E**±.047	**50**±7.2	**3.8b**	**50**	**1-70**	
ATH	XI	18 17 24 51.0	37.32N	20.50E	5	4.1L			¶97xi3017
EIDC	XI	18 17 24 51.2	37.5N	20.9E	0	4.1b,4.2L			
NEIC	XI	18 17 24 54.1	37.41N	20.91E	33	4.1b			
ISC	**XI**	**18 17 31 02**±2.0	**37.15N**±.082	**20.7E**±.11	**26**±12	**3.8b**	**40**	**2-70**	
EIDC	XI	18 17 30 58.9	37.3N	20.4E	0	3.9b			¶97xi3019
NEIC	XI	18 17 31 01.2	37.29N	20.24E	33				
THE	XI	18 17 31 11.5	37.8N	21.3E	0	3.6L			
ATH	XI	18 17 31 12.0	37.56N	21.32E	36	3.6L			
NEIC	Less reliable solution.								
ISC	**XI**	**18 17 43 44.4**±.65	**37.53N**±.055	**20.77E**±.050	**55**±6.6	**4.0b**	**53**	**1-122**	
EIDC	XI	18 17 43 39.6	37.6N	21.1E	0	4.0b,3.7L			¶97xi3029
NEIC	XI	18 17 43 41.9	37.44N	20.96E	33	4.4b			
ATH	XI	18 17 43 43.7	37.47N	20.87E	5	3.8L			
THE	XI	18 17 43 45.9	37.6N	21.2E	0				
ISC	**XI**	**18 18 44 36**±3.0	**37.4N**±.15	**20.5E**±.20	**28**±14	3.3b	**19**	**1-24**	
THE	XI	18 18 44 34.4	37.1N	20.6E	10				¶97xi3041
ATH	XI	18 18 44 35.1	37.30N	20.50E	5	3.7L			
ISC	**XI**	**18 19 11 01**±1.0	**37.33N**±.082	**20.95E**±.071	**10**		**20**	**1-5**	
THE	XI	18 19 11 00.9	37.3N	21.0E	10				¶97xi3043
ATH	XI	18 19 11 03.1	37.38N	21.08E	10	3.4L			
ISC	**XI**	**18 19 14 54**±2.1	**37.5N**±.13	**20.8E**±.17	**49**±19	3.3b	**20**	**1-24**	
THE	XI	18 19 14 50.4	37.1N	21.0E	10				¶97xi3044
ATH	XI	18 19 14 53.2	37.36N	20.88E	5	3.6L			
ISC	**XI**	**18 19 21 49**±1.0	**37.43N**±.039	**20.65E**±.033	**33**±8.2	**4.2b,3.7s**	**122**	**2-122**	
BJI	XI	18 19 21 44.0	36.82N	20.20E	33	4.9b			¶97xi3045
EIDC	XI	18 19 21 46.1	37.5N	20.8E	0	4.2b,4.2L			
NEIC	XI	18 19 21 47.9	37.40N	20.83E	33	4.4b			
PDG	XI	18 19 21 48.9	37.5N	19.9E	9	4.1L			
THE	XI	18 19 21 50.9	37.5N	20.9E	10	4.1L			
ATH	XI	18 19 21 55.6	37.58N	21.06E	37	3.9L			

Agency		Origin Time				ϕ	λ	h	Mag	n	Δ-Rng	
	mo	d	h	m	s	°	°	km			°	
ISC	**XI**	**18**	**19**	**26**	**12**±2.7	**37.5N**±.13	**20.8E**±.18	**7**±11		**20**	**1-4**	
ATH	XI	18	19	26	09.2	37.31N	20.43E	5	3.7L			¶97xi3048
ISC	**XI**	**18**	**20**	**13**	**33**±1.6	**37.32N**±.048	**20.79E**±.048	**10**±11	**4.0b**	**56**	**1-70**	
EIDC	XI	18	20	13	33.0	37.4N	20.7E	0	4.1b,3.9L			¶97xi3054
NEIC	XI	18	20	13	35.4	37.37N	20.76E	33				
ATH	XI	18	20	13	37.3	37.47N	21.16E	5	3.7L			
ISC	**XI**	**18**	**20**	**51**	**31.2**±.60	**37.45N**±.049	**20.88E**±.041	**53**±5.3	**4.1b**	**105**	**2-122**	
BJI	XI	18	20	51	23.7	36.66N	20.42E	33	4.9b			¶97xi3060
EIDC	XI	18	20	51	25.9	37.4N	21.0E	0	4.2b,3.9L			
PDG	XI	18	20	51	27.3	37.2N	19.7E	13	4.1L			
NEIC	XI	18	20	51	28.2	37.32N	20.95E	33	4.3b			
ATH	XI	18	20	51	36.4	37.56N	21.29E	38	3.8L			
ISC	**XI**	**18**	**20**	**56**	**46.0**±.70	**37.28N**±.057	**20.88E**±.075	**33**	**3.5b**	**37**	**2-70**	
EIDC	XI	18	20	56	43.3	37.3N	20.8E	0	3.8b,3.5L			¶97xi3061
NEIC	XI	18	20	56	46.0	37.36N	20.70E	33				
ATH	XI	18	20	56	51.0	37.36N	21.29E	33	3.7L			
NEIC	Less reliable solution.											
ISC	**XI**	**18**	**21**	**02**	**49.0**±.63	**37.48N**±.052	**20.78E**±.054	**47**±8.1	**3.7b**	**47**	**1-70**	
THE	XI	18	21	02	44.0	37.2N	20.8E	0	3.6L			¶97xi3062
EIDC	XI	18	21	02	44.8	37.5N	20.6E	0	3.9b,3.7L			
NEIC	XI	18	21	02	47.4	37.45N	20.60E	33	4.2b			
ATH	XI	18	21	02	49.5	37.20N	20.96E	5	3.7L			
NEIC	Less reliable solution.											
ISC	**XI**	**18**	**22**	**22**	**06.8**±.54	**37.22N**±.054	**20.86E**±.046	**35**	**3.7b**	**44**	**2-70**	
EIDC	XI	18	22	22	05.0	37.2N	20.8E	0	3.8b,4.2L			¶97xi3075
THE	XI	18	22	22	05.5	37.2N	21.0E	20	3.6L			
NEIC	XI	18	22	22	07.6	37.20N	20.71E	33	4.1b			
ATH	XI	18	22	22	12.7	37.34N	21.34E	35	3.7L			
ISC	**XI**	**18**	**23**	**05**	**28**±4.1	**37.3N**±.28	**20.9E**±.37	**15**		**4**	**1-2**	
ATH	XI	18	23	05	29.0	37.29N	20.97E	15	3.5L			¶97xi3082
ISC	Poorly determined											
ISC	**XI**	**18**	**23**	**20**	**56**±2.0	**37.15N**±.090	**20.3E**±.12	**26**±12	**3.9b**	**36**	**1-70**	
EIDC	XI	18	23	20	47.2	36.3N	19.1E	0	4.0b,3.7L			¶97xi3087
NEIC	XI	18	23	20	49.9	36.29N	19.27E	33				
ATH	XI	18	23	21	02.1	37.50N	20.80E	5	3.7L			
NEIC	Less reliable solution.											
ISC	**XI**	**19**	**00**	**33**	**07.6**±.53	**37.48N**±.042	**20.76E**±.033	**52**±5.3	**4.2b**	**148**	**1-122**	
EIDC	XI	19	00	33	03.3	37.5N	20.8E	0	4.1b,3.8L			¶97xi3093
NEIC	XI	19	00	33	05.7	37.41N	20.85E	33	4.4b			
ATH	XI	19	00	33	06.2	37.47N	20.78E	5	4.3L			
THE	XI	19	00	33	06.7	37.5N	20.8E	10	4.3L			
BJI	XI	19	00	33	09.3	36.90N	21.13E	65	5.0b			
PDG	XI	19	00	33	11.7	38.0N	21.3E	14	4.5L			
ISC	**XI**	**19**	**00**	**45**	**22**±2.7	**37.4N**±.15	**20.6E**±.21	**5**		**20**	**1-5**	
ATH	XI	19	00	45	25.0	37.44N	20.72E	5	3.3L			¶97xi3096
THE	XI	19	00	45	25.4	37.5N	20.8E	10				
ISC	**XI**	**19**	**01**	**32**	**28**±1.2	**37.22N**±.050	**20.88E**±.039	**10**±7.9	**4.0b**	**63**	**1-122**	
EIDC	XI	19	01	32	27.0	37.3N	21.0E	0	3.9b,3.6L			¶97xi3101
NEIC	XI	19	01	32	29.4	37.19N	20.99E	33	3.8b			
THE	XI	19	01	32	30.9	37.3N	20.9E	10	3.8L			
ATH	XI	19	01	32	33.5	37.49N	21.18E	5	3.8L			
THE	**XI**	**19**	**02**	**12**	**26.5**	**37.3N**	**21.0E**	**10**				¶97xi3111
ATH	**XI**	**19**	**02**	**31**	**37.2**	**37.18N**	**20.64E**	**5**	**3.1D**			¶97xi3113
ATH	**XI**	**19**	**02**	**33**	**29.3**	**37.16N**	**20.60E**	**5**	**3.8L**			¶97xi3115
EIDC	XI	19	02	34	17.6	37.5N	21.3E	0	3.8b,3.6L			
NEIC	XI	19	02	34	20.6	37.43N	21.00E	33				
NEIC	Poor solution.											
ISC	**XI**	**19**	**02**	**48**	**36.1**±.51	**37.41N**±.042	**20.84E**±.036	**53**±6.0	**3.9b**	**106**	**1-122**	
EIDC	XI	19	02	48	31.2	37.3N	21.0E	0	4.1b,4.0s			¶97xi3118
NEIC	XI	19	02	48	33.8	37.33N	20.99E	33	4.2b			
PDG	XI	19	02	48	35.6	37.4N	20.0E	14	4.1L			
ATH	XI	19	02	48	35.7	37.43N	20.97E	5	3.9L			
THE	XI	19	02	48	38.1	37.5N	21.2E	10	3.9L			
ISC	**XI**	**19**	**03**	**33**	**29**±1.8	**37.5N**±.13	**20.9E**±.11	**9**±19		**27**	**1-5**	
ATH	XI	19	03	33	35.2	37.57N	21.19E	5	3.3L			¶97xi3126
THE	XI	19	03	33	35.2	37.8N	21.2E	0				
ISC	**XI**	**19**	**04**	**36**	**42**±8.8	**37.4N**±.59	**20.6E**±.35	**10**	3.9b	**12**	**2-24**	
THE	XI	19	04	36	45.9	37.5N	20.9E	10				¶97xi3137
ISC	**XI**	**19**	**05**	**46**	**33**±2.4	**37.5N**±.13	**21.0E**±.21	**5**		**18**	**1-4**	
THE	XI	19	05	46	30.2	37.1N	20.9E	10	3.4L			¶97xi3141
ATH	XI	19	05	46	36.3	37.35N	20.97E	5	3.3D			
ISC	**XI**	**19**	**06**	**04**	**15**±2.4	**37.7N**±.11	**21.0E**±.25	**5**		**9**	**1-4**	
ATH	XI	19	06	04	20.0	37.69N	21.27E	5				¶97xi3144
ISC	**XI**	**19**	**06**	**05**	**10**±1.2	**37.49N**±.092	**21.0E**±.14	**48**±12	**3.9b**	**16**	**1-96**	
EIDC	XI	19	06	05	05.6	37.5N	21.1E	0	4.0b,3.6L			¶97xi3145
NEIC	XI	19	06	05	08.6	37.47N	21.04E	33				
ATH	XI	19	06	05	10.8	37.42N	20.85E	5	3.3D			
NEIC	Single network solution.											
ISC	**XI**	**19**	**06**	**39**	**58**±3.0	**37.4N**±.13	**20.9E**±.19	**3**±17		**19**	**1-4**	
ATH	XI	19	06	39	59.0	37.24N	20.82E	5	3.6L			¶97xi3152
THE	XI	19	06	40	02.3	37.4N	21.1E	20	3.4L			
ATH	**XI**	**19**	**06**	**52**	**06.9**	**37.30N**	**20.58E**	**5**				¶97xi3155
ISC	**XI**	**19**	**06**	**53**	**47**±5.1	**37.4N**±.22	**20.6E**±.40	**5**		**4**	**1-2**	
ATH	XI	19	06	53	49.0	37.36N	20.63E	5	3.1D			¶97xi3156
ISC	Poorly determined											
ISC	**XI**	**19**	**07**	**23**	**11**±3.3	**37.3N**±.21	**20.9E**±.27	**5**		**8**	**1-4**	
ATH	XI	19	07	23	11.0	37.30N	20.74E	5	3.2D			¶97xi3160
ISC	**XI**	**19**	**08**	**00**	**28**±7.4	**37.3N**±.27	**21.0E**±.36	**5**±42		**5**	**1-2**	
ATH	XI	19	08	00	27.5	37.21N	20.82E	5	3.7L			¶97xi3163
ISC	Poorly determined											
ISC	**XI**	**19**	**08**	**01**	**23**±2.4	**37.4N**±.17	**21.0E**±.19	**28**±16		**19**	**1-5**	
ATH	XI	19	08	01	24.8	37.46N	20.94E	10				¶97xi3164
ISC	**XI**	**19**	**08**	**08**	**50**±2.7	**37.5N**±.12	**20.9E**±.21	**8**±12		**12**	**1-4**	
ATH	XI	19	08	08	52.8	37.52N	20.95E	5				¶97xi3168
ISC	**XI**	**19**	**08**	**16**	**23**±2.7	**37.40N**±.068	**20.6E**±.11	**5**±19	**3.8b**	**28**	**1-70**	
EIDC	XI	19	08	16	23.0	37.5N	20.9E	0	3.8b,3.2L			¶97xi3171
ATH	XI	19	08	16	25.6	37.44N	20.67E	5				
NEIC	XI	19	08	16	25.8	37.44N	20.84E	33				
THE	XI	19	08	16	26.1	37.4N	20.8E	10	3.8L			
NEIC	Less reliable solution.											
ISC	**XI**	**19**	**08**	**32**	**46**±4.6	**37.4N**±.17	**20.8E**±.33	**9**±25		**5**	**1-2**	
ATH	XI	19	08	32	48.0	37.47N	20.78E	5	3.1D			¶97xi3172
ISC	Poorly determined											
ISC	**XI**	**19**	**08**	**41**	**44**±2.4	**37.5N**±.13	**20.9E**±.22	**5**		**5**	**1-2**	
ATH	XI	19	08	41	43.0	37.33N	20.76E	5	3.0D			¶97xi3174
ISC	**XI**	**19**	**11**	**08**	**48.5**±.75	**37.18N**±.059	**20.90E**±.047	**41**±8.0	**3.8b**	**57**	**2-120**	
ATH	XI	19	11	08	37.0	36.49N	20.13E	8	4.4L			¶97xi3199
EIDC	XI	19	11	08	45.1	37.3N	21.1E	0	3.9b,3.7L			
NEIC	XI	19	11	08	47.7	37.18N	20.94E	33				
ISC	**XI**	**19**	**11**	**11**	**16.1**±.84	**37.37N**±.073	**20.74E**±.084	**5**	**3.9b**	**19**	**1-70**	
EIDC	XI	19	11	11	14.8	37.6N	21.3E	0	3.8b,4.3L			¶97xi3200
NEIC	XI	19	11	11	17.7	37.36N	21.15E	33				
ATH	XI	19	11	11	25.3	37.59N	21.22E	5	3.5L			
NEIC	Less reliable solution.											
ISC	**XI**	**19**	**11**	**55**	**18.3**±.51	**37.42N**±.040	**20.85E**±.035	**48**±5.3	**4.2b**,4.2s	**116**	**1-122**	
PDG	XI	19	11	55	12.8	37.0N	19.6E	15	4.4L			¶97xi3209
EIDC	XI	19	11	55	14.0	37.4N	21.1E	0	4.2b,3.7s			
THE	XI	19	11	55	14.8	37.3N	20.8E	0	4.2L			
NEIC	XI	19	11	55	16.9	37.38N	20.98E	33	4.2b			
BJI	XI	19	11	55	19.1	36.95N	21.48E	48	4.7b,4.8s			
ATH	XI	19	11	55	20.2	37.43N	21.07E	17	4.3L			
ISC	**XI**	**19**	**13**	**18**	**47**±2.9	**37.36N**±.079	**20.7E**±.13	**9**±16	**3.6b**	**27**	**1-122**	
EIDC	XI	19	13	18	47.3	37.5N	21.2E	0	3.6b			¶97xi3227
NEIC	XI	19	13	18	50.0	37.42N	20.84E	33				
ATH	XI	19	13	18	55.4	37.50N	21.32E	5	3.4L			
NEIC	Less reliable solution.											
ISC	**XI**	**19**	**13**	**33**	**32.1**±.85	**37.11N**±.071	**20.83E**±.062	**40**±8.7	**3.7b**	**43**	**1-122**	
EIDC	XI	19	13	33	29.1	37.3N	21.3E	0	3.9b			¶97xi3231
NEIC	XI	19	13	33	32.2	37.24N	21.25E	33				
THE	XI	19	13	33	35.9	37.5N	21.2E	0				
ATH	XI	19	13	33	37.8	37.36N	21.30E	5	3.7L			
NEIC	Less reliable solution.											
ISC	**XI**	**19**	**14**	**50**	**52**±5.1	**37.3N**±.29	**20.8E**±.43	**10**		**6**	**1-5**	
ATH	XI	19	14	50	59.7	37.50N	21.38E	10				¶97xi3242
ISC	**XI**	**19**	**15**	**45**	**20.7**±.95	**37.38N**±.054	**20.67E**±.047	**32**±7.1	**3.9b**	**70**	**1-88**	
THE	XI	19	15	45	19.0	37.2N	20.8E	10	3.9L			¶97xi3249
NEIC	XI	19	15	45	20.4	37.39N	20.71E	33	4.2b			
EIDC	XI	19	15	45	22.3	37.5N	21.1E	21	3.9b,3.5L			
ATH	XI	19	15	45	23.2	37.47N	20.77E	5	3.8L			
ISC	**XI**	**19**	**16**	**04**	**34.4**±.63	**37.41N**±.050	**20.80E**±.048	**45**±6.6	**3.9b,**3.7s	**66**	**1-122**	
EIDC	XI	19	16	04	30.9	37.5N	20.8E	0	4.1b,4.2L			¶97xi3253
NEIC	XI	19	16	04	33.5	37.42N	20.83E	33	4.1b			
ATH	XI	19	16	04	36.3	37.47N	21.07E	5	3.7L			
ISC	**XI**	**19**	**16**	**58**	**34**±2.5	**37.5N**±.14	**21.0E**±.23	**5**		**16**	**1-4**	
ATH	XI	19	16	58	44.0	37.48N	21.64E	5	2.9D			¶97xi3263
ISC	**XI**	**19**	**17**	**03**	**56**±2.1	**37.4N**±.12	**21.0E**±.15	**2**±11		**24**	**1-5**	
THE	XI	19	17	03	57.2	37.3N	21.0E	10				¶97xi3265
ATH	XI	19	17	04	01.4	37.43N	21.19E	5	3.5L			
ISC	**XI**	**19**	**18**	**09**	**04.9**±.83	**37.30N**±.071	**20.74E**±.065	**43**±9.2	**3.7b**	**36**	**1-70**	
NEIC	XI	19	18	09	03.6	37.29N	20.84E	33				¶97xi3283
EIDC	XI	19	18	09	13.3	37.4N	20.6E	106	3.4b,3.9L			
ATH	XI	19	18	09	14.3	37.66N	21.87E	5	3.1L			
NEIC	Less reliable solution.											
ISC	**XI**	**19**	**19**	**11**	**01**±2.4	**37.5N**±.13	**20.9E**±.19	**26**±14		**19**	**1-4**	
ATH	XI	19	19	11	08.2	37.70N	21.50E	5	3.0D			¶97xi3294
ISC	**XI**	**19**	**19**	**23**	**49.7**±.91	**37.38N**±.074	**20.86E**±.057	**51**±7.8	**3.8b**	**57**	**1-70**	
NEIC	XI	19	19	23	47.4	37.29N	20.94E	33				¶97xi3296
THE	XI	19	19	23	47.4	37.4N	20.9E	0	3.7L			
ATH	XI	19	19	23	52.2	37.52N	21.10E	5	3.7L			
EIDC	XI	19	19	24	05.9	38.1N	21.2E	148	3.5b			
NEIC	Less reliable solution.											
ISC	**XI**	**19**	**19**	**31**	**30**±7.9	**37.2N**±.55	**20.9E**±.28	**0**		**11**	**2-5**	
THE	XI	19	19	31	37.4	37.6N	21.3E	0				¶97xi3297
ISC	**XI**	**19**	**23**	**21**	**59**±2.0	**37.5N**±.12	**20.8E**±.15	**5**		**22**	**1-5**	
ATH	XI	19	23	22	00.1	37.44N	20.75E	5	3.7L			¶97xi3333
THE	XI	19	23	22	00.1	37.4N	20.9E	10				
ISC	**XI**	**19**	**23**	**24**	**17**±1.2	**37.56N**±.097	**20.9E**±.13	**60**±11	**3.8b**	**25**	**1-70**	
EIDC	XI	19	23	24	12.2	37.7N	21.2E	0	3.9b,3.5L			¶97xi3336
NEIC	XI	19	23	24	14.2	37.56N	20.99E	33				
ATH	XI	19	23	24	15.6	37.35N	20.79E	5	3.7L			
NEIC	Less reliable solution.											
ISC	**XI**	**19**	**23**	**53**	**33.9**±.61	**37.54N**±.045	**20.70E**±.043	**47**±6.7	**4.0b,**3.7s	**92**	**1-96**	
ATH	XI	19	23	53	29.7	37.11N	20.41E	36	4.2L			¶97xi3343
PDG	XI	19	23	53	30.9	37.4N	19.9E	12	4.1L			
THE	XI	19	23	53	32.1	37.4N	20.8E	10	4.1L			
NEIC	XI	19	23	53	32.9	37.53N	20.76E	33	4.4b			
EIDC	XI	19	23	53	37.5	37.7N	20.8E	50	3.8b,3.8L			
ISC	**XI**	**20**	**00**	**26**	**21**±1.4	**37.35N**±.076	**20.72E**±.065	**23**±9.8	**3.8b**	**64**	**1-70**	
PDG	XI	20	00	26	21.5	37.3N	19.6E	13	3.8L			¶97xi3349
THE	XI	20	00	26	23.6	37.3N	20.7E	20	3.8L			
NEIC	XI	20	00	26	24.0	37.53N	20.79E	33	4.2b			
ATH	XI	20	00	26	24.5	37.34N	20.93E	13	3.7L			
EIDC	XI	20	00	26	34.1	38.1N	20.9E	76	3.6b,3.9L			
NEIC	Less reliable solution.											
ISC	**XI**	**20**	**02**	**00**	**43**±2.4	**37.5N**±.12	**20.8E**±.16	**6**±12		**20**	**1-4**	
ATH	XI	20	02	00	46.5	37.48N	20.99E	5	3.5L			¶97xi3369
ISC	**XI**	**20**	**04**	**55**	**29.4**±.95	**37.3N**±.10	**20.9E**±.21	**33**	**3.7b**	**11**	**20-46**	
EIDC	XI	20	04	55	26.3	37.4N	21.0E	0	3.8b,3.8L			¶97xi3395
NEIC	XI	20	04	55	29.3	37.33N	20.92E	33				
NEIC	Less reliable solution.											
ISC	**XI**	**20**	**05**	**55**	**41**±3.5	**37.4N**±.18	**20.8E**±.31	**5**		**4**	**1-2**	
ATH	XI	20	05	55	42.5	37.43N	20.77E	5	3.2D			¶97xi3403
ISC	Poorly determined											
ISC	**XI**	**20**	**06**	**23**	**25**±2.8	**37.37N**±.066	**20.71E**±.065	**11**±18	**4.1b**	**54**	**1-96**	
THE	XI	20	06	23	28.7	37.5N	21.0E	0	3.9L			¶97xi3407
NEIC	XI	20	06	23	30.2	37.61N	20.55E	33	4.0b			
ATH	XI	20	06	23	30.3	37.46N	21.04E	5	3.8L			
EIDC	XI	20	06	23	36.6	37.9N	20.5E	71	3.9b,3.7L			
NEIC	Less reliable solution.											
ISC	**XI**	**20**	**09**	**37**	**41**±2.8	**37.5N**±.14	**20.8E**±.24	**5**		**6**	**1-2**	
ATH	XI	20	09	37	43.8	37.48N	20.82E	5	3.5D			¶97xi3436
ISC	**XI**	**20**	**09**	**48**	**18**±4.1	**37.3N**±.18	**20.7E**±.31	**5**		**5**	**1-2**	
ATH	XI	20	09	48	19.3	37.31N	20.69E	5	3.2D			¶97xi3438
ISC	**XI**	**20**	**10**	**17**	**58**±1.8	**37.3N**±.10	**20.9E**±.13	**5**		**22**	**1-5**	
THE	XI	20	10	17	59.2	37.2N	21.3E	0	3.4L			¶97xi3445
ATH	XI	20	10	18	00.5	37.30N	21.01E	5	3.5L			
ISC	**XI**	**20**	**11**	**01**	**40**±2.3	**37.5N**±.13	**20.6E**±.20	**5**		**17**	**1-4**	
ATH	XI	20	11	01	39.7	37.43N	20.64E	5	3.5D			¶97xi3450
ISC	**XI**	**20**	**11**	**34**	**03**±4.7	**37.5N**±.19	**20.9E**±.26	**3**±30		**6**	**1-2**	
ATH	XI	20	11	34	02.4	37.33N	20.74E	5	3.4D			¶97xi3454
ISC	**XI**	**20**	**11**	**56**	**23**±2.7	**37.6N**±.11	**20.8E**±.17	**4**±13		**19**	**1-4**	
ATH	XI	20	11	56	23.2	37.42N	20.73E	5	3.5D			¶97xi3456
ISC	**XI**	**20**	**12**	**16**	**51**±2.6	**37.4N**±.13	**20.8E**±.23	**5**		**6**	**1-2**	
ATH	XI	20	12	16	50.5	37.29N	20.76E	5	3.4D			¶97xi3460
ISC	**XI**	**20**	**13**	**26**	**05**±2.2	**37.3N**±.12	**20.9E**±.19	**5**		**13**	**1-5**	
ATH	XI	20	13	26	04.1	37.22N	20.76E	5	3.5D			¶97xi3471
ISC	**XI**	**20**	**14**	**26**	**15**±2.0	**37.4N**±.11	**20.9E**±.17	**5**		**15**	**1-4**	
ATH	XI	20	14	26	14.9	37.32N	20.90E	5	3.4D			¶97xi3477

ISC	**XI**	**20 16 13 43**±2.3	**37.4N**±.12	**20.8E**±.16	**6**±12		**23**	**1-5**	
THE	XI	20 16 13 45.3	37.5N	21.0E	0	3.5L			¶97xi3490
ATH	XI	20 16 13 46.0	37.43N	20.84E	5	3.7L			
ISC	**XI**	**20 16 30 19.8**±.67	**37.39N**±.052	**20.51E**±.067	**5**	**3.9b**	**38**	**1-70**	
NEIC	XI	20 16 30 23.3	37.45N	20.77E	33	4.0b			¶97xi3495
ATH	XI	20 16 30 25.1	37.43N	20.78E	5	3.7L			
THE	XI	20 16 30 25.3	37.6N	20.9E	0	3.5L			
EIDC	XI	20 16 30 30.1	37.6N	20.6E	82	3.5b,3.6L			
NEIC	Less reliable solution.								
ISC	**XI**	**20 16 53 29**±2.5	**37.4N**±.13	**20.7E**±.19	**5**		**16**	**1-5**	
ATH	XI	20 16 53 31.0	37.42N	20.77E	5	3.4D			¶97xi3499
THE	XI	20 16 53 32.6	37.5N	21.0E	0				
ISC	**XI**	**20 17 29 21**±2.1	**37.5N**±.11	**20.8E**±.19	**5**		**7**	**1-3**	
ATH	XI	20 17 29 21.0	37.49N	20.79E	5	3.5D			¶97xi3508
ISC	**XI**	**20 18 22 10**±3.5	**37.4N**±.16	**20.6E**±.27	**5**		**9**	**1-5**	
ATH	XI	20 18 22 11.1	37.34N	20.58E	5	3.4D			¶97xi3513
ISC	**XI**	**20 19 18 25**±2.1	**37.5N**±.12	**20.8E**±.18	**5**		**18**	**1-5**	
ATH	XI	20 19 18 24.2	37.17N	20.66E	5	3.8L			¶97xi3519
THE	XI	20 19 18 25.7	37.4N	20.8E	0				
ISC	**XI**	**20 19 25 28**±1.7	**37.57N**±.092	**20.9E**±.12	**1**±9.0	3.8b	**25**	**1-24**	
THE	XI	20 19 25 27.5	37.4N	20.9E	0				¶97xi3520
ATH	XI	20 19 25 32.4	37.63N	21.09E	5	3.5L			
ISC	**XI**	**20 20 14 28**±5.6	**37.3N**±.40	**21.0E**±.57	**5**±31		**5**	**1-2**	
ATH	XI	20 20 14 29.6	37.27N	20.92E	5	3.1D			¶97xi3527
ISC	Poorly determined								
ISC	**XI**	**20 21 00 07**±1.8	**37.44N**±.098	**20.9E**±.15	**5**		**24**	**1-5**	
ATH	XI	20 21 00 07.6	37.36N	20.91E	5	3.7L			¶97xi3531
ISC	**XI**	**20 21 13 03**±2.3	**37.6N**±.13	**20.8E**±.20	**5**		**15**	**1-4**	
ATH	XI	20 21 13 00.8	37.32N	20.40E	5	3.8L			¶97xi3532
ISC	**XI**	**20 23 25 08**±1.8	**37.47N**±.099	**20.9E**±.15	**5**		**20**	**1-5**	
ATH	XI	20 23 25 06.5	37.29N	20.69E	5	3.7L			¶97xi3548
THE	XI	20 23 25 09.9	37.4N	20.9E	10				
ISC	**XI**	**20 23 33 10**±4.6	**37.6N**±.18	**20.6E**±.35	**1**±15		**9**	**1-4**	
ATH	XI	20 23 33 14.6	37.63N	20.78E	5	3.5L			¶97xi3549
ISC	**XI**	**20 23 38 05**±2.1	**37.4N**±.13	**20.9E**±.15	**5**		**19**	**1-5**	
ATH	XI	20 23 38 05.8	37.27N	20.82E	5	3.7L			¶97xi3550
ISC	**XI**	**20 23 43 18**±1.0	**37.40N**±.042	**20.64E**±.047	**19**±8.1	**4.0b**	**86**	**1-122**	
EIDC	XI	20 23 43 16.8	37.5N	20.8E	0	4.0b,3.8L			¶97xi3551
PDG	XI	20 23 43 17.9	37.3N	19.7E	13	4.1L			
NEIC	XI	20 23 43 19.2	37.47N	20.72E	33	4.4b			
ATH	XI	20 23 43 19.5	37.40N	20.83E	5	4.0L			
THE	XI	20 23 43 22.2	37.5N	21.2E	0	3.9L			
ISC	**XI**	**21 00 00 59**±1.9	**37.4N**±.11	**21.0E**±.15	**5**		**20**	**1-5**	
ATH	XI	21 00 00 58.0	37.20N	20.82E	5	3.6L			¶97xi3554
THE	XI	21 00 01 01.9	37.3N	20.9E	16	3.4L			
ISC	**XI**	**21 00 47 42**±1.6	**37.28N**±.065	**20.79E**±.086	**30**±13	**3.8b**	**42**	**1-36**	
NEIC	XI	21 00 47 41.7	37.26N	20.98E	33	4.5b			¶97xi3559
ATH	XI	21 00 47 43.2	37.42N	20.88E	5	3.7L			
EIDC	XI	21 00 47 45.8	37.2N	21.2E	81	3.7b			
THE	XI	21 00 47 46.7	37.5N	21.0E	18	3.6L			
NEIC	Less reliable solution.								
ISC	**XI**	**21 00 56 51**±3.6	**37.4N**±.18	**20.6E**±.31	**5**		**11**	**1-5**	
ATH	XI	21 00 56 52.3	37.35N	20.67E	5	3.6L			¶97xi3560
ISC	**XI**	**21 01 17 28**±5.4	**37.3N**±.30	**20.7E**±.51	**5**		**7**	**1-3**	
ATH	XI	21 01 17 29.4	37.33N	20.76E	5	3.4D			¶97xi3562
ISC	**XI**	**21 02 25 13**±6.2	**37.2N**±.32	**20.7E**±.45	**5**		**8**	**1-3**	
ATH	XI	21 02 25 14.2	37.21N	20.61E	5	3.7L			¶97xi3570
ISC	**XI**	**21 03 55 20**±1.0	**37.53N**±.072	**20.83E**±.084	**5**	**3.8b**	**44**	**1-25**	
EIDC	XI	21 03 55 09.9	36.5N	20.7E	0	3.9b,4.0L			¶97xi3574
ATH	XI	21 03 55 19.5	37.42N	20.71E	5	3.5L			
THE	XI	21 03 55 20.7	37.3N	20.7E	20	3.7L			
ISC	**XI**	**21 04 11 32**±3.8	**37.4N**±.16	**20.9E**±.24	**13**±18		**8**	**1-5**	
ATH	XI	21 04 11 32.7	37.30N	20.91E	5	3.1D			¶97xi3577
ISC	**XI**	**21 04 12 37**±2.2	**37.4N**±.12	**21.0E**±.17	**5**		**8**	**1-3**	
ATH	XI	21 04 12 39.0	37.32N	20.91E	5	3.6L			¶97xi3578
ISC	**XI**	**21 04 29 32**±2.0	**37.3N**±.12	**20.9E**±.14	**5**		**26**	**1-5**	
ATH	XI	21 04 29 34.0	37.31N	20.93E	5	3.6L			¶97xi3582
ISC	**XI**	**21 04 38 17**±2.1	**37.4N**±.12	**21.0E**±.20	**5**		**6**	**1-2**	
ATH	XI	21 04 38 17.5	37.37N	20.96E	5	3.4D			¶97xi3584
ISC	**XI**	**21 05 01 25**±3.4	**37.2N**±.19	**20.9E**±.26	**5**		**13**	**1-4**	
ATH	XI	21 05 01 25.3	37.32N	20.79E	5	3.3D			¶97xi3589
THE	XI	21 05 01 29.2	37.4N	20.9E	10	3.1L			
ISC	**XI**	**21 05 02 50**±4.7	**37.3N**±.19	**20.9E**±.33	**6**±26		**5**	**1-2**	
ATH	XI	21 05 02 52.3	37.39N	20.87E	5	3.0D			¶97xi3590
ISC	Poorly determined								
ISC	**XI**	**21 05 28 20**±3.5	**37.4N**±.18	**20.8E**±.29	**5**		**5**	**1-2**	
ATH	XI	21 05 28 22.9	37.39N	20.85E	5	3.1D			¶97xi3596
ISC	**XI**	**21 05 56 00**±2.7	**37.4N**±.14	**21.0E**±.22	**5**		**11**	**1-4**	
ATH	XI	21 05 55 57.7	37.35N	20.64E	5	3.3D			¶97xi3598
THE	XI	21 05 55 59.7	37.2N	20.9E	10				
ISC	**XI**	**21 06 48 09**±2.3	**37.4N**±.12	**20.7E**±.19	**5**		**25**	**1-5**	
ATH	XI	21 06 48 11.0	37.31N	20.71E	5	3.8L			¶97xi3610
THE	XI	21 06 48 12.3	37.3N	21.0E	0	3.4L			
ISC	**XI**	**21 06 57 01.4**±.98	**37.30N**±.071	**20.61E**±.079	**5**	**3.7b**	**31**	**1-70**	
NEIC	XI	21 06 57 03.1	37.15N	20.83E	33				¶97xi3611
ATH	XI	21 06 57 04.5	37.36N	20.70E	5	3.7L			
EIDC	XI	21 06 57 14.8	37.4N	20.7E	124	3.4b			
NEIC	Less reliable solution.								
ISC	**XI**	**21 06 58 31**±2.7	**37.5N**±.15	**20.6E**±.25	**5**		**5**	**1-2**	
ATH	XI	21 06 58 31.4	37.34N	20.53E	5	3.5D			¶97xi3612
ISC	**XI**	**21 07 17 53**±3.5	**37.3N**±.20	**21.0E**±.29	**5**		**4**	**1-2**	
ATH	XI	21 07 17 54.7	37.25N	20.94E	5				¶97xi3615
ISC	Poorly determined								
ISC	**XI**	**21 08 29 40**±2.1	**37.3N**±.12	**20.7E**±.16	**5**		**21**	**1-5**	
ATH	XI	21 08 29 40.8	37.34N	20.60E	5	3.4D			¶97xi3624
ISC	**XI**	**21 08 59 04**±3.4	**37.4N**±.18	**20.8E**±.29	**5**		**5**	**1-2**	
ATH	XI	21 08 59 06.5	37.45N	20.87E	5	3.1D			¶97xi3627
ISC	**XI**	**21 09 51 13**±1.8	**37.5N**±.10	**21.0E**±.15	**10**		**18**	**1-5**	
THE	XI	21 09 51 08.4	37.0N	20.8E	10				¶97xi3632
ATH	XI	21 09 51 10.1	37.31N	20.65E	5	3.7L			
ISC	**XI**	**21 11 04 36**±4.2	**37.3N**±.20	**20.6E**±.32	**5**		**6**	**1-2**	
ATH	XI	21 11 04 39.4	37.37N	20.63E	5	3.3D			¶97xi3638
ISC	**XI**	**21 11 26 40**±4.9	**37.2N**±.25	**20.9E**±.37	**5**		**4**	**1-2**	
ATH	XI	21 11 26 41.4	37.13N	20.75E	5	3.2D			¶97xi3643
ISC	Poorly determined								
ISC	**XI**	**21 12 17 03.6**±.88	**37.33N**±.071	**20.70E**±.065	**10**	**4.0b**	**45**	**1-70**	
ATH	XI	21 12 17 04.6	37.29N	20.70E	5	3.9L			¶97xi3648
NEIC	XI	21 12 17 07.8	37.53N	20.65E	33	4.2b			
THE	XI	21 12 17 08.4	37.4N	21.1E	10	3.7L			
EIDC	XI	21 12 17 25.8	38.4N	20.2E	135	3.6b			
NEIC	Less reliable solution.								
ISC	**XI**	**21 12 31 24**±3.0	**37.4N**±.13	**20.8E**±.28	**9**		**13**	**1-5**	
ATH	XI	21 12 31 15.6	37.46N	20.12E	9				¶97xi3653
THE	XI	21 12 31 26.0	37.2N	21.1E	17	3.3L			
ISC	**XI**	**21 13 44 42**±6.7	**37.5N**±.23	**20.7E**±.46	**5**±35		**5**	**1-2**	
ATH	XI	21 13 44 44.5	37.55N	20.76E	5				¶97xi3664
ISC	Poorly determined								
ISC	**XI**	**21 13 59 58**±4.7	**37.3N**±.22	**20.8E**±.34	**5**		**4**	**1-2**	
ATH	XI	21 13 59 59.3	37.27N	20.70E	5				¶97xi3666
ISC	Poorly determined								
ISC	**XI**	**21 15 16 19**±2.8	**37.3N**±.16	**20.8E**±.24	**5**		**9**	**1-4**	
ATH	XI	21 15 16 20.5	37.47N	20.98E	5	3.1D			¶97xi3674
THE	XI	21 15 16 26.0	37.5N	21.2E	10				
ISC	**XI**	**21 15 39 24**±1.7	**37.4N**±.10	**20.9E**±.13	**5**		**24**	**1-5**	
ATH	XI	21 15 39 25.3	37.44N	20.84E	5	3.6L			¶97xi3680
THE	XI	21 15 39 28.4	37.5N	21.0E	10	3.3L			
ISC	**XI**	**21 15 49 13**±1.4	**37.27N**±.066	**20.89E**±.055	**5**±10	**3.8b**	**37**	**1-32**	
ATH	XI	21 15 49 16.2	37.33N	21.01E	7	3.5L			¶97xi3681
EIDC	XI	21 15 49 52.6	39.8N	20.4E	191	3.2b			
ISC	**XI**	**21 16 10 08**±1.2	**37.20N**±.077	**20.57E**±.062	**24**±7.6	**3.8b**	**51**	**1-122**	
NEIC	XI	21 16 10 09.1	37.27N	20.44E	33	4.1b			¶97xi3684
THE	XI	21 16 10 10.9	37.3N	20.8E	10	3.6L			
ATH	XI	21 16 10 12.4	37.40N	20.72E	5	3.8L			
EIDC	XI	21 16 10 15.0	37.5N	20.5E	55	3.6b,3.5L			
NEIC	Less reliable solution.								
ISC	**XI**	**21 16 41 15**±3.3	**37.5N**±.16	**20.7E**±.25	**5**		**9**	**1-4**	
ATH	XI	21 16 41 15.9	37.40N	20.69E	5	3.2D			¶97xi3687
ISC	**XI**	**21 17 10 58**±2.8	**37.3N**±.17	**20.7E**±.22	**5**		**12**	**1-4**	
ATH	XI	21 17 10 59.9	37.36N	20.64E	5	3.5D			¶97xi3691
ISC	**XI**	**21 17 22 39**±1.0	**37.18N**±.045	**20.82E**±.041	**30**±8.2	**4.2b,3.6s**	**85**	**1-122**	
EIDC	XI	21 17 22 37.4	37.5N	20.9E	0	4.2b,3.7s			¶97xi3694
ATH	XI	21 17 22 39.4	37.35N	20.67E	5	4.1L			
NEIC	XI	21 17 22 39.7	37.35N	21.12E	33	4.5b			
BJI	XI	21 17 22 42.1	37.23N	21.42E	37	4.8b			
THE	XI	21 17 22 42.6	37.3N	21.1E	10	4.1L			
ATH	**XI**	**21 17 26 02.4**	**37.37N**	**20.75E**	**5**	**3.3D**			¶97xi3695
ISC	**XI**	**21 17 32 57**±2.2	**37.5N**±.11	**20.9E**±.18	**5**		**15**	**1-4**	
ATH	XI	21 17 32 55.7	37.38N	20.75E	5	3.5L			¶97xi3696
ISC	**XI**	**21 17 47 36.8**±.96	**37.41N**±.040	**20.77E**±.042	**31**±8.2	**4.1b**,3.6s	**81**	**1-122**	
BJI	XI	21 17 47 30.5	37.30N	21.10E	23	4.9b			¶97xi3698
ATH	XI	21 17 47 35.3	37.33N	20.71E	5	4.1L			
NEIC	XI	21 17 47 36.0	37.28N	21.14E	33	4.4b			
THE	XI	21 17 47 37.8	37.4N	20.8E	10	4.0L			
PDG	XI	21 17 47 38.8	37.5N	19.5E	13	4.1L			
EIDC	XI	21 17 47 40.4	37.5N	20.8E	50	3.9b,3.6s			
NEIC	$M_{L3.9}$(ROM).								
ISC	**XI**	**21 18 00 40**±1.2	**37.29N**±.072	**20.77E**±.062	**25**±7.4	**3.8b**	**48**	**1-70**	
NEIC	XI	21 18 00 40.9	37.31N	21.00E	33	4.2b			¶97xi3704
ATH	XI	21 18 00 41.8	37.38N	20.78E	5	3.8L			
THE	XI	21 18 00 43.2	37.4N	21.0E	10	3.8L			
EIDC	XI	21 18 00 52.9	37.8N	21.0E	114	3.6b			
NEIC	Less reliable solution.								
ISC	**XI**	**21 18 20 37**±3.1	**37.7N**±.15	**20.7E**±.34	**5**		**5**	**0-2**	
ATH	XI	21 18 20 38.5	37.67N	20.68E	5				¶97xi3708
ISC	**XI**	**21 18 25 47**±1.9	**37.23N**±.082	**20.6E**±.11	**18**±14	**3.6b**	**28**	**1-70**	
THE	XI	21 18 25 47.7	37.2N	20.7E	10	3.4L			¶97xi3709
NEIC	XI	21 18 25 48.1	37.19N	20.90E	33				
ATH	XI	21 18 25 49.2	37.38N	20.70E	5	3.8L			
EIDC	XI	21 18 25 57.7	37.4N	20.7E	109	3.4b			
NEIC	Poor solution.								
ISC	**XI**	**21 18 38 18**±2.2	**37.5N**±.13	**20.9E**±.21	**5**		**8**	**1-4**	
ATH	XI	21 18 38 16.6	37.44N	20.72E	5	3.5L			¶97xi3711
ISC	**XI**	**21 18 42 07**±4.6	**37.3N**±.24	**20.8E**±.35	**8**±20		**5**	**1-2**	
ATH	XI	21 18 42 08.8	37.30N	20.78E	5	2.9D			¶97xi3713
ISC	Poorly determined								
ISC	**XI**	**21 19 21 53**±1.9	**37.5N**±.11	**21.0E**±.18	**5**		**14**	**1-5**	
ATH	XI	21 19 21 50.8	37.28N	20.74E	5	3.6L			¶97xi3719
ISC	**XI**	**21 19 34 32**±3.6	**37.5N**±.19	**20.7E**±.36	**5**		**5**	**1-2**	
ATH	XI	21 19 34 33.7	37.48N	20.84E	5	3.1D			¶97xi3721
ISC	**XI**	**21 19 47 06**±4.8	**37.2N**±.28	**20.8E**±.43	**5**		**5**	**1-3**	
ATH	XI	21 19 47 05.6	37.11N	20.72E	5	3.3D			¶97xi3725
ISC	**XI**	**21 20 05 37**±2.1	**37.4N**±.12	**20.8E**±.17	**5**		**20**	**1-5**	
ATH	XI	21 20 05 34.8	37.24N	20.54E	5	3.7L			¶97xi3730
ISC	**XI**	**21 21 01 38**±4.4	**37.3N**±.22	**20.6E**±.36	**5**		**7**	**1-3**	
ATH	XI	21 21 01 39.0	37.26N	20.70E	5	3.6L			¶97xi3742
ATH	**XI**	**21 21 57 54.1**	**37.30N**	**20.64E**	**5**				¶97xi3750
ATH	**XI**	**21 22 30 48.0**	**37.26N**	**20.79E**	**5**	**3.0D**			¶97xi3752
ISC	**XI**	**21 22 56 15**±1.4	**37.39N**±.094	**20.8E**±.11	**5**	**3.7b**	**27**	**1-32**	
EIDC	XI	21 22 56 14.2	37.2N	20.5E	0	3.7b,3.3L			¶97xi3753
ATH	XI	21 22 56 16.1	37.40N	20.79E	5	3.6L			
THE	XI	21 22 56 17.2	37.3N	20.9E	10	3.3L			
ISC	**XI**	**21 22 59 21**±4.7	**37.2N**±.24	**20.8E**±.35	**5**		**4**	**1-2**	
ATH	XI	21 22 59 23.0	37.19N	20.74E	5	3.1D			¶97xi3754
ISC	Poorly determined								
ISC	**XI**	**21 23 03 28**±3.0	**37.5N**±.14	**20.7E**±.28	**5**		**7**	**1-3**	
ATH	XI	21 23 03 27.8	37.37N	20.58E	5	3.3D			¶97xi3755
ISC	**XI**	**21 23 43 34**±1.5	**37.60N**±.086	**20.9E**±.13	**10**		**20**	**1-4**	
THE	XI	21 23 43 33.1	37.4N	20.9E	10	3.3L			¶97xi3759
ATH	XI	21 23 43 33.9	37.55N	20.94E	5	3.5L			
ISC	**XI**	**22 01 03 42**±6.6	**37.3N**±.25	**20.4E**±.45	**6**±18		**8**	**1-3**	
ATH	XI	22 01 03 47.5	37.37N	20.57E	5	3.6L			¶97xi3770
ISC	**XI**	**22 01 18 56**±4.9	**37.2N**±.23	**20.7E**±.37	**5**		**5**	**1-2**	
ATH	XI	22 01 18 59.1	37.26N	20.72E	5	3.1D			¶97xi3772
ISC	**XI**	**22 01 58 15**±2.1	**37.37N**±.073	**20.62E**±.094	**5**±13	**3.8b**	**29**	**1-32**	
ATH	XI	22 01 58 17.1	37.38N	20.75E	5	3.6L			¶97xi3779
NEIC	XI	22 01 58 17.8	37.48N	20.75E	33				
THE	XI	22 01 58 17.8	37.3N	21.0E	10	3.4L			
EIDC	XI	22 01 58 36.4	37.6N	21.3E	224	3.4b			
NEIC	Poor solution.								
ISC	**XI**	**22 02 17 13**±2.8	**37.5N**±.24	**20.8E**±.26	**3**±29		**17**	**1-4**	
ATH	XI	22 02 17 13.8	37.46N	20.65E	5	3.5L			¶97xi3782
ISC	**XI**	**22 02 35 58**±2.2	**37.5N**±.14	**20.9E**±.20	**5**		**10**	**1-4**	
ATH	XI	22 02 35 56.6	37.29N	20.64E	5	3.8L			¶97xi3787
ISC	**XI**	**22 03 15 52**±9.5	**37.2N**±.42	**20.5E**±.72	**5**		**5**	**1-2**	
ATH	XI	22 03 15 59.3	37.44N	20.84E	5	3.0D			¶97xi3792
ISC	**XI**	**22 04 03 20.0**±.72	**37.33N**±.061	**20.54E**±.061	**5**	**3.6b**	**31**	**1-32**	
EIDC	XI	22 04 03 20.5	37.3N	20.6E	0	3.7b,3.5L			¶97xi3799
ATH	XI	22 04 03 20.8	37.29N	20.50E	5	3.8L			
NEIC	XI	22 04 03 23.0	37.30N	20.97E	33				
THE	XI	22 04 03 23.7	37.3N	20.9E	10	3.5L			

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XI**	**22 04 27 14**±4.8	**37.2N**±.25	**20.9E**±.35	**5**		**4**	**1-2**
ATH	XI	22 04 27 16.1	37.16N	20.90E	5			¶97xi3804
ISC		Poorly determined						
ISC	**XI**	**22 04 36 20**±3.8	**37.5N**±.20	**20.7E**±.32	**5**		**4**	**1-2**
ATH	XI	22 04 36 18.8	37.31N	20.56E	5	3.2D		¶97xi3807
ISC		Poorly determined						
ISC	**XI**	**22 06 21 16**±1.1	**37.35N**±.056	**20.80E**±.051	**25**±9.7	**3.6b**	**39**	**1-32**
THE	XI	22 06 21 12.3	37.1N	20.7E	10	3.7L		¶97xi3818
EIDC	XI	22 06 21 12.4	37.5N	21.2E	0	3.9b,4.2L		
ATH	XI	22 06 21 15.6	37.33N	20.82E	9	3.8L		
NEIC	XI	22 06 21 15.6	37.36N	20.91E	33			
ISC	**XI**	**22 06 29 09**±3.6	**37.5N**±.17	**20.7E**±.34	**5**		**4**	**1-2**
ATH	XI	22 06 29 08.6	37.36N	20.62E	5	3.0D		¶97xi3821
ISC		Poorly determined						
ISC	**XI**	**22 07 00 08**±2.4	**37.4N**±.14	**20.9E**±.23	**5**		**8**	**1-5**
ATH	XI	22 07 00 07.0	37.30N	20.80E	5	3.5D		¶97xi3824
ISC	**XI**	**22 07 03 45**±3.8	**37.2N**±.22	**20.8E**±.29	**5**		**12**	**1-4**
ATH	XI	22 07 03 46.8	37.24N	20.80E	5	3.2D		¶97xi3826
ISC	**XI**	**22 07 13 08.2**±.82	**37.34N**±.053	**20.84E**±.047	**31**±7.9	**3.9b**	**69**	**1-32**
THE	XI	22 07 13 04.4	37.0N	20.8E	10	3.8L		¶97xi3827
PDG	XI	22 07 13 07.0	37.2N	19.6E	13	4.1L		
NEIC	XI	22 07 13 08.2	37.40N	20.95E	33	4.3b		
EIDC	XI	22 07 13 09.3	37.5N	21.0E	27	4.0b,3.5L		
ATH	XI	22 07 13 09.5	37.34N	20.85E	5	3.8L		
ISC	**XI**	**22 07 18 26**±4.4	**37.4N**±.26	**20.9E**±.40	**5**		**4**	**1-2**
ATH	XI	22 07 18 28.5	37.50N	20.96E	5	2.9D		¶97xi3830
ISC		Poorly determined						
ISC	**XI**	**22 08 44 58.4**±.49	**37.26N**±.039	**20.78E**±.031	**51**±5.6	**4.1b**,3.9s	**151**	**1-122**
EIDC	XI	22 08 44 56.1	37.5N	20.8E	0	4.2b,3.9s		¶97xi3839
NEIC	XI	22 08 44 56.3	37.21N	20.85E	33	4.2b		
ATH	XI	22 08 44 58.9	37.33N	20.75E	9	4.3L		
THE	XI	22 08 44 59.8	37.4N	20.8E	10	4.2L		
PDG	XI	22 08 45 01.0	37.5N	20.0E	13	4.1L		
ISC	**XI**	**22 08 50 06**±4.0	**37.5N**±.18	**20.6E**±.38	**5**		**7**	**1-4**
ATH	XI	22 08 50 07.4	37.46N	20.76E	5	3.2D		¶97xi3841
ISC	**XI**	**22 09 28 04**±3.3	**37.5N**±.16	**20.8E**±.29	**5**		**5**	**1-2**
ATH	XI	22 09 28 06.2	37.58N	20.81E	5	3.0D		¶97xi3845
ISC	**XI**	**22 09 45 32**±1.9	**37.5N**±.11	**20.8E**±.16	**5**		**11**	**1-4**
ATH	XI	22 09 45 34.2	37.58N	20.88E	5	3.2D		¶97xi3847
ISC	**XI**	**22 10 25 21**±3.0	**37.4N**±.13	**20.8E**±.22	**1**±11		**15**	**1-4**
ATH	XI	22 10 25 23.4	37.41N	20.77E	5	3.1D		¶97xi3853
ISC	**XI**	**22 10 55 24**±2.6	**37.5N**±.13	**20.9E**±.22	**5**		**6**	**1-2**
ATH	XI	22 10 55 24.5	37.45N	20.83E	5	3.1D		¶97xi3857
ISC	**XI**	**22 11 26 06**±3.8	**37.5N**±.16	**20.9E**±.28	**13**±24		**5**	**1-2**
ATH	XI	22 11 26 06.5	37.43N	20.80E	5	3.0D		¶97xi3861
ISC		Poorly determined						
ISC	**XI**	**22 12 40 34**±1.8	**37.4N**±.10	**20.8E**±.13	**5**		**23**	**1-5**
ATH	XI	22 12 40 36.7	37.44N	20.90E	5	3.6L		¶97xi3876
THE	XI	22 12 40 38.6	37.6N	21.0E	0	3.5L		
ISC	**XI**	**22 12 42 52**±4.3	**37.4N**±.16	**20.8E**±.30	**3**±20		**7**	**1-3**
ATH	XI	22 12 42 53.5	37.41N	20.73E	5	3.4D		¶97xi3877
ISC	**XI**	**22 13 42 02**±1.5	**37.4N**±.10	**20.68E**±.098	**5**	**3.4b**	**34**	**1-32**
ATH	XI	22 13 42 04.8	37.43N	20.77E	5	3.6L		¶97xi3886
THE	XI	22 13 42 05.6	37.4N	21.0E	10	3.6L		
EIDC	XI	22 13 43 08.7	43.0N	19.5E	67	3.5L,3.5b		
ISC	**XI**	**22 13 52 27**±1.1	**37.35N**±.067	**20.83E**±.057	**25**±8.9	**3.7b**	**39**	**1-48**
THE	XI	22 13 52 25.0	37.2N	20.9E	10	3.6L		¶97xi3887
NEIC	XI	22 13 52 26.3	37.30N	21.00E	33			
ATH	XI	22 13 52 28.4	37.36N	20.98E	5	3.5L		
EIDC	XI	22 13 52 42.9	38.5N	20.8E	81	3.4b,3.8L		
NEIC		Poor solution.						
ISC	**XI**	**22 14 30 20**±2.3	**37.4N**±.12	**20.9E**±.19	**5**		**9**	**1-4**
ATH	XI	22 14 30 21.4	37.46N	20.89E	5	3.3D		¶97xi3894
ISC	**XI**	**22 14 57 14**±3.5	**37.4N**±.15	**21.0E**±.25	**1**±21		**6**	**1-2**
ATH	XI	22 14 57 15.9	37.39N	20.97E	5	3.0D		¶97xi3897
ISC	**XI**	**22 16 02 59**±2.1	**37.4N**±.11	**21.0E**±.17	**5**		**16**	**1-4**
ATH	XI	22 16 02 57.5	37.33N	20.66E	5	3.1D		¶97xi3908
ISC	**XI**	**22 17 52 26**±3.2	**37.5N**±.17	**20.8E**±.29	**5**		**9**	**1-4**
ATH	XI	22 17 52 26.7	37.59N	20.72E	5	3.1D		¶97xi3928
ISC	**XI**	**22 18 34 53**±2.1	**37.5N**±.12	**20.8E**±.17	**5**		**21**	**1-5**
ATH	XI	22 18 34 54.0	37.38N	20.79E	5	3.5L		¶97xi3940
THE	XI	22 18 34 55.1	37.3N	21.1E	10	3.3L		
ISC	**XI**	**22 19 23 34**±3.5	**37.2N**±.18	**20.9E**±.25	**5**		**7**	**1-2**
ATH	XI	22 19 23 36.6	37.23N	20.99E	5	3.3D		¶97xi3947
ISC	**XI**	**22 20 04 02**±2.0	**37.6N**±.11	**20.8E**±.18	**5**		**12**	**1-4**
ATH	XI	22 20 04 00.7	37.50N	20.67E	5	3.2D		¶97xi3953
ISC	**XI**	**22 20 44 41**±2.8	**37.5N**±.13	**20.9E**±.18	**5**±13		**13**	**1-4**
ATH	XI	22 20 44 41.9	37.32N	20.73E	5	3.4L		¶97xi3959
ISC	**XI**	**22 22 27 59**±1.7	**37.57N**±.099	**20.8E**±.15	**10**		**21**	**1-4**
THE	XI	22 22 27 57.1	37.2N	20.9E	10	3.3L		¶97xi3972
ATH	XI	22 22 27 57.8	37.39N	20.68E	5	3.5L		
ISC	**XI**	**23 00 21 58**±1.0	**37.29N**±.072	**20.71E**±.083	**5**	**3.5b**	**34**	**1-32**
EIDC	XI	23 00 21 58.1	37.6N	21.2E	0	3.6b,3.5L		¶97xi3988
ATH	XI	23 00 21 58.4	37.21N	20.68E	5	3.7L		
THE	XI	23 00 21 58.7	37.1N	20.9E	10	3.4L		
NEIC	XI	23 00 22 02.4	37.46N	20.32E	33	4.5b		
NEIC		Less reliable solution.						
ISC	**XI**	**23 00 54 40**±4.0	**37.4N**±.21	**20.7E**±.34	**5**		**7**	**1-4**
ATH	XI	23 00 54 39.9	37.28N	20.61E	5	3.6L		¶97xi3991
ISC	**XI**	**23 01 44 37**±3.2	**37.3N**±.16	**20.8E**±.28	**5**		**5**	**1-2**
ATH	XI	23 01 44 36.0	37.20N	20.70E	5	3.1D		¶97xi3999
ISC	**XI**	**23 02 45 19**±5.7	**37.1N**±.31	**20.7E**±.44	**5**		**6**	**1-3**
ATH	XI	23 02 45 18.6	37.04N	20.64E	5	3.5L		¶97xi4009
ISC	**XI**	**23 03 30 13**±3.3	**37.4N**±.18	**20.9E**±.28	**5**		**5**	**1-2**
ATH	XI	23 03 30 14.3	37.32N	20.82E	5	3.0D		¶97xi4015
ISC	**XI**	**23 05 38 10**±2.5	**37.5N**±.14	**20.7E**±.22	**10**		**13**	**1-4**
THE	XI	23 05 38 09.1	37.3N	20.6E	10	3.2L		¶97xi4047
ATH	XI	23 05 38 10.2	37.40N	20.79E	5	3.3D		
ISC	**XI**	**23 05 41 58**±4.7	**37.3N**±.22	**20.7E**±.37	**5**		**4**	**1-2**
ATH	XI	23 05 41 59.2	37.29N	20.56E	5	2.9D		¶97xi4048
ISC		Poorly determined						
ISC	**XI**	**23 06 32 59**±2.1	**37.5N**±.12	**20.8E**±.20	**10**		**18**	**1-4**
THE	XI	23 06 32 56.0	37.2N	20.8E	10	3.4L		¶97xi4055
ATH	XI	23 06 32 58.3	37.41N	20.71E	5	3.4D		
ISC	**XI**	**23 08 26 10**±5.3	**37.5N**±.36	**20.9E**±.55	**5**		**4**	**1-2**
ATH	XI	23 08 26 11.1	37.34N	20.70E	5	3.3D		¶97xi4075
ISC		Poorly determined						
ISC	**XI**	**23 08 33 40**±3.1	**37.5N**±.11	**20.9E**±.16	**1**±16		**19**	**1-5**
ATH	XI	23 08 33 40.6	37.37N	20.84E	5	3.4D		¶97xi4078
ISC	**XI**	**23 08 55 45**±1.9	**37.17N**±.081	**20.7E**±.11	**16**±13	**3.8b**	**31**	**1-132**
EIDC	XI	23 08 55 44.3	37.2N	21.0E	0	3.7b,3.7L		¶97xi4081
NEIC	XI	23 08 55 47.1	37.23N	21.00E	33			
ATH	XI	23 08 55 47.6	37.25N	20.92E	5	3.8L		
THE	XI	23 08 55 50.7	37.3N	21.2E	10	3.6L		
NEIC		Less reliable solution.						
ISC	**XI**	**23 12 23 34**±2.6	**37.4N**±.13	**20.8E**±.21	**5**		**17**	**1-5**
ATH	XI	23 12 23 35.8	37.48N	20.82E	5	3.5L		¶97xi4117
THE	XI	23 12 23 39.2	37.5N	21.1E	10			
THE	**XI**	**23 12 53 25.9**	**37.3N**	**20.8E**	**10**	**3.4L**		¶97xi4121
ISC	**XI**	**23 12 55 14**±2.9	**37.3N**±.17	**20.9E**±.24	**5**		**10**	**1-5**
ATH	XI	23 12 55 13.8	37.24N	20.77E	5	3.7L		¶97xi4122
ISC	**XI**	**23 14 37 24**±2.7	**37.4N**±.14	**20.8E**±.25	**5**		**8**	**1-5**
ATH	XI	23 14 37 24.4	37.32N	20.71E	5	3.3D		¶97xi4132
ISC	**XI**	**23 15 44 00.3**±.50	**37.41N**±.038	**20.75E**±.036	**50**±5.3	**4.3b,3.8s**	**112**	**1-122**
THE	XI	23 15 43 54.9	37.1N	20.6E	10	4.2L		¶97xi4145
BJI	XI	23 15 43 56.1	37.46N	21.07E	18	4.7b		
EIDC	XI	23 15 43 56.1	37.4N	20.8E	0	4.3b,3.8s		
NEIC	XI	23 15 43 58.2	37.34N	20.89E	33	4.4b		
ATH	XI	23 15 44 00.7	37.44N	20.90E	5	4.1L		
PDG	XI	23 15 44 02.8	37.6N	19.3E	13	4.1L		
ISC	**XI**	**23 16 00 56**±4.1	**37.4N**±.23	**20.6E**±.29	**23**±14		**13**	**1-4**
THE	XI	23 16 00 55.7	37.4N	20.5E	10			¶97xi4147
ATH	XI	23 16 00 59.9	37.57N	20.82E	5	3.1D		
ISC	**XI**	**23 16 28 45**±2.2	**37.4N**±.12	**20.9E**±.19	**5**		**13**	**1-4**
ATH	XI	23 16 28 46.2	37.40N	20.83E	5	3.2D		¶97xi4151
THE	XI	23 16 28 47.2	37.4N	21.0E	10			
ISC	**XI**	**23 17 03 04**±1.7	**37.37N**±.071	**20.7E**±.10	**22**±12	**3.6b**	**30**	**1-70**
EIDC	XI	23 17 03 02.6	37.5N	21.1E	0	3.7b,3.8L		¶97xi4155
THE	XI	23 17 03 04.0	37.3N	20.9E	10	3.4L		
ATH	XI	23 17 03 05.0	37.40N	20.83E	9	3.7L		
NEIC	XI	23 17 03 05.3	37.48N	20.88E	33			
NEIC		Less reliable solution.						
ISC	**XI**	**23 17 06 30**±5.2	**37.4N**±.25	**20.6E**±.49	**5**		**7**	**1-4**
ATH	XI	23 17 06 31.1	37.36N	20.69E	5	3.3D		¶97xi4156
ATH	**XI**	**23 17 38 38.3**	**37.05N**	**20.76E**	**5**	**2.9D**		¶97xi4166
ISC	**XI**	**23 19 34 55**±2.8	**37.3N**±.16	**20.9E**±.24	**25**		**14**	**1-5**
ATH	XI	23 19 34 59.9	37.58N	21.51E	25	3.2L		¶97xi4183
ISC	**XI**	**23 20 47 20.3**±.77	**37.27N**±.068	**20.75E**±.057	**5**	**3.7b**	**35**	**1-24**
ATH	XI	23 20 47 28.3	37.48N	21.34E	5	3.4L		¶97xi4195
EIDC	XI	23 20 48 06.7	40.8N	19.9E	139	3.1b		
ISC	**XI**	**23 21 22 16**±3.5	**37.3N**±.17	**20.8E**±.26	**19**±20		**13**	**1-5**
ATH	XI	23 21 22 22.8	37.50N	21.42E	20	3.3D		¶97xi4198
ATH	**XI**	**23 21 26 58.1**	**37.26N**	**20.83E**	**5**	**2.8D**		¶97xi4200
ISC	**XI**	**23 21 33 30**±2.2	**37.5N**±.12	**20.8E**±.19	**10**		**20**	**1-4**
THE	XI	23 21 33 29.3	37.4N	20.7E	10	3.4L		¶97xi4201
ATH	XI	23 21 33 31.0	37.51N	20.78E	5	3.6L		
ISC	**XI**	**24 02 39 44**±1.3	**37.30N**±.068	**20.68E**±.057	**29**±9.8	**3.9b**	**57**	**1-122**
THE	XI	24 02 39 42.0	37.2N	20.6E	10	4.0L		¶97xi4253
NEIC	XI	24 02 39 44.7	37.38N	20.81E	33	4.0b		
EIDC	XI	24 02 39 49.6	37.6N	20.8E	54	3.7b,3.6L		
ATH	XI	24 02 39 51.4	37.56N	21.39E	5	3.7L		
NEIC		Less reliable solution.						
ISC	**XI**	**24 04 43 20**±1.6	**37.46N**±.081	**20.9E**±.10	**32**±11	**3.7b**	**26**	**1-24**
ATH	XI	24 04 43 18.2	37.26N	20.72E	5	3.7D		¶97xi4268
THE	XI	24 04 43 20.5	37.4N	21.1E	10	3.5L		
NEIC	XI	24 04 43 20.5	37.56N	20.96E	33			
EIDC	XI	24 04 43 33.8	38.1N	20.8E	122	3.5b		
NEIC		Poor solution.						
ISC	**XI**	**24 20 25 59**±7.3	**37.3N**±.33	**20.7E**±.60	**5**		**5**	**1-2**
ATH	XI	24 20 26 03.9	37.42N	21.06E	5	3.2D		¶97xi4382
ISC	**XI**	**25 00 10 38**±8.5	**37.2N**±.42	**20.9E**±.64	**5**		**5**	**1-2**
ATH	XI	25 00 10 44.5	37.44N	21.32E	5	3.1D		¶97xi4414
ISC	**XI**	**25 01 58 02**±5.6	**37.4N**±.29	**20.7E**±.44	**5**		**6**	**1-4**
ATH	XI	25 01 58 11.1	37.57N	21.44E	5	3.2L		¶97xi4426
ISC	**XI**	**25 08 53 35**±3.4	**37.5N**±.14	**20.7E**±.33	**6**		**7**	**1-4**
ATH	XI	25 08 53 34.8	37.40N	20.64E	6	3.3D		¶97xi4478
ISC	**XI**	**25 12 30 00**±5.4	**37.5N**±.18	**20.6E**±.43	**5**		**6**	**1-2**
ATH	XI	25 12 30 05.1	37.49N	20.80E	5			¶97xi4509
ISC	**XI**	**26 01 16 49.4**±.55	**37.23N**±.053	**20.94E**±.039	**3**		**41**	**1-6**
NEIC	XI	26 01 16 48.3	37.01N	21.21E	33			¶97xi4605
ATH	XI	26 01 16 57.2	37.50N	21.53E	3	3.4L		
NEIC		Less reliable solution.						
ISC	**XI**	**26 01 32 06**±1.2	**37.3N**±.11	**20.75E**±.068	**48**±9.1	**3.7b**,3.2s	**41**	**2-70**
NEIC	XI	26 01 32 05.8	37.37N	20.74E	33	4.1b		¶97xi4607
THE	XI	26 01 32 08.9	37.5N	21.1E	10	3.6L		
EIDC	XI	26 01 32 15.6	37.9N	20.5E	88	3.5b,3.4L		
NEIC		Less reliable solution.						
ISC	**XI**	**26 02 15 10**±5.5	**37.4N**±.30	**20.6E**±.53	**5**		**7**	**1-5**
ATH	XI	26 02 15 09.0	37.22N	20.52E	5	3.2D		¶97xi4613
ISC	**XI**	**26 02 43 55**±4.3	**37.4N**±.17	**20.9E**±.36	**5**		**6**	**1-2**
ATH	XI	26 02 43 58.4	37.50N	21.10E	5	3.0D		¶97xi4615
ISC	**XI**	**26 04 31 33.1**±.85	**37.14N**±.082	**20.73E**±.056	**10**		**24**	**1-5**
NEIC	XI	26 04 31 33.6	37.02N	20.84E	33			¶97xi4632
THE	XI	26 04 31 39.1	37.4N	21.1E	10	3.3L		
ATH	XI	26 04 31 44.5	37.50N	21.89E	5	3.2D		
NEIC		M_L3.7(ROM), Poor solution.						
ISC	**XI**	**26 04 49 11**±2.2	**37.5N**±.13	**20.9E**±.20	**64**±26		**27**	**1-5**
THE	XI	26 04 49 05.6	37.2N	20.8E	10	3.6L		¶97xi4636
ATH	XI	26 04 49 17.0	37.69N	21.75E	5			
ISC	**XI**	**26 04 49 48**±8.6	**37.5N**±.42	**20.3E**±.96	**93**		**4**	**1-2**
ATH	XI	26 04 49 51.6	37.66N	20.67E	93			¶97xi4637
ISC		Poorly determined						
ISC	**XI**	**26 04 58 07**±2.7	**37.6N**±.13	**21.0E**±.27	**5**		**9**	**1-4**
ATH	XI	26 04 58 11.9	37.60N	21.35E	5	3.3D		¶97xi4639
ISC	**XI**	**26 07 57 10**±1.3	**37.0N**±.11	**20.54E**±.086	**5**	**3.6b**	**17**	**1-33**
NEIC	XI	26 07 57 13.4	37.09N	20.51E	33			¶97xi4651
ATH	XI	26 07 57 21.3	37.53N	21.32E	5	3.3D		
EIDC	XI	26 07 57 46.3	39.2N	20.9E	169	3.1b		
NEIC		Poor solution.						
ISC	**XI**	**26 18 07 13**±6.7	**37.6N**±.28	**16.3E**±.71	**23**±49		**6**	**1-1**
ROM	XI	26 18 07 13.6	37.6N	16.2E	17	2.4D		¶97xi4728
ISC	**XI**	**26 18 50 18**±3.0	**37.5N**±.16	**20.9E**±.27	**5**		**5**	**1-2**
ATH	XI	26 18 50 19.0	37.41N	20.73E	5	3.2D		¶97xi4734
ISC	**XI**	**26 19 48 33**±2.4	**37.5N**±.17	**21.0E**±.20	**4**±25		**14**	**1-4**
THE	XI	26 19 48 30.6	37.2N	20.9E	10	3.1L		¶97xi4738
ATH	XI	26 19 48 33.3	37.41N	20.79E	5	3.2D		
ISC	**XI**	**26 20 12 28**±2.6	**37.2N**±.16	**20.9E**±.18	**5**		**18**	**1-5**
ATH	XI	26 20 12 28.5	37.25N	20.75E	5	3.7L		¶97xi4740

ISC	**XI**	**26 20 46 50**±3.7	**37.3N**±.18	**20.8E**±.30	**5**			**6**	**1-3**
ATH	XI	26 20 46 50.9	37.36N	20.69E	5	3.2D		**¶97xi4742**	
ATH	**XI**	**26 21 50 50.2**	**37.18N**	**20.41E**	**10**	**3.0D**		**¶97xi4746**	
ATH	**XI**	**26 22 10 50.7**	**37.23N**	**20.47E**	**5**	**2.9D**		**¶97xi4749**	
ATH	**XI**	**26 22 13 44.4**	**37.15N**	**20.39E**	**10**	**2.8D**		**¶97xi4750**	
ATH	**XI**	**26 23 53 43.2**	**37.76N**	**20.22E**	**10**	**2.8D**		**¶97xi4760**	
ATH	**XI**	**27 00 30 42.0**	**37.17N**	**20.48E**	**10**	**2.8D**		**¶97xi4769**	
ISC	**XI**	**27 00 34 59**±2.9	**37.5N**±.13	**20.7E**±.25	**5**			**6**	**1-2**
ATH	XI	27 00 35 01.3	37.58N	20.77E	5	3.1D		**¶97xi4770**	
ISC	**XI**	**27 01 47 44**±2.8	**37.4N**±.15	**20.7E**±.23	**19**±12			**18**	**1-5**
ATH	XI	27 01 47 44.5	37.34N	20.74E	5	3.4D		**¶97xi4777**	
ISC	**XI**	**27 02 27 14.1**±.39	**37.40N**±.030	**20.73E**±.024	**46**±3.9	**4.6b,4.2s**		**237**	**1-122**
PDG	XI	27 02 27 06.2	36.9N	20.0E	14	4.5L		**¶97xi4783**	
EIDC	XI	27 02 27 10.4	37.5N	20.8E	0	4.5b,4.0s			
BJI	XI	27 02 27 11.3	37.57N	20.66E	27	5.0b,5.3s			
MOS	XI	27 02 27 12.1	37.3N	20.7E	33	5.1b,4.5s			
ATH	XI	27 02 27 12.1	37.31N	20.71E	5	4.7L			
NEIC	XI	27 02 27 13.0	37.37N	20.70E	33	4.6b			
THE	XI	27 02 27 14.6	37.4N	20.9E	15	4.5L			
ISC	**XI**	**27 02 47 38**±2.2	**37.5N**±.13	**21.0E**±.21	**5**			**8**	**1-4**
ATH	XI	27 02 47 39.9	37.47N	20.92E	5	3.3D		**¶97xi4785**	
ISC	**XI**	**27 04 03 36**±3.7	**37.4N**±.19	**20.8E**±.30	**5**			**8**	**1-3**
ATH	XI	27 04 03 38.2	37.37N	20.84E	5	3.2D		**¶97xi4788**	
ISC	**XI**	**27 04 20 22**±3.6	**37.6N**±.14	**21.0E**±.21	**2**±24			**7**	**1-3**
ATH	XI	27 04 20 24.4	37.49N	21.00E	5	3.2D		**¶97xi4792**	
ISC	**XI**	**27 04 46 23.0**±.70	**37.34N**±.061	**20.86E**±.051	**5**	**3.8b**		**34**	**1-32**
EIDC	XI	27 04 46 02.7	35.3N	21.0E	0	3.8b,3.6L		**¶97xi4796**	
ATH	XI	27 04 46 23.8	37.31N	20.85E	5	3.6D			
ISC	**XI**	**27 04 58 57**±2.3	**37.6N**±.13	**20.9E**±.19	**3**±13			**13**	**1-4**
THE	XI	27 04 58 55.8	37.3N	20.8E	10			**¶97xi4799**	
ATH	XI	27 04 58 59.4	37.53N	20.88E	5	3.2D			
ISC	**XI**	**27 05 11 22**±3.5	**37.3N**±.19	**20.9E**±.29	**5**			**4**	**1-2**
ATH	XI	27 05 11 23.3	37.32N	20.86E	5	3.0D		**¶97xi4800**	
ISC	Poorly determined								
ATH	**XI**	**27 05 23 34.2**	**37.41N**	**19.78E**	**17**	**3.2D**		**¶97xi4803**	
ATH	**XI**	**27 05 39 35.1**	**37.02N**	**20.41E**	**10**	**3.0D**		**¶97xi4804**	
ATH	**XI**	**27 05 47 49.3**	**37.17N**	**20.83E**	**5**	**2.9D**		**¶97xi4806**	
ISC	**XI**	**27 06 21 01**±2.0	**37.4N**±.11	**20.9E**±.16	**5**			**19**	**1-5**
ATH	XI	27 06 21 00.6	37.37N	20.69E	5	3.3D		**¶97xi4810**	
THE	XI	27 06 21 01.4	37.3N	21.0E	10	3.3L			
ISC	**XI**	**27 06 24 34**±4.0	**37.4N**±.15	**20.8E**±.28	**5**±24			**6**	**1-2**
ATH	XI	27 06 24 36.2	37.45N	20.89E	5	3.2D		**¶97xi4813**	
ISC	**XI**	**27 06 56 30**±2.8	**37.5N**±.13	**20.8E**±.24	**5**			**6**	**1-2**
ATH	XI	27 06 56 31.7	37.56N	20.81E	5	3.2D		**¶97xi4817**	
ISC	**XI**	**27 07 34 42**±3.3	**37.3N**±.22	**20.7E**±.23	**0**±25			**15**	**1-5**
ATH	XI	27 07 34 44.9	37.29N	20.72E	5	3.4D		**¶97xi4826**	
THE	XI	27 07 34 46.2	37.4N	20.7E	10	3.3L			
ISC	**XI**	**27 11 28 13**±1.3	**37.28N**±.064	**20.64E**±.074	**18**±11	**3.7b**		**35**	**1-76**
EIDC	XI	27 11 28 12.0	37.4N	20.9E	0	3.8b,3.8L		**¶97xi4848**	
NEIC	XI	27 11 28 15.0	37.32N	20.73E	33				
THE	XI	27 11 28 15.3	37.3N	20.8E	10	3.8L			
ATH	XI	27 11 28 16.9	37.38N	20.81E	5	3.7L			
EIDC	Multiple, mixed az								
NEIC	Less reliable solution.								
ATH	**XI**	**27 11 33 28.3**	**37.01N**	**20.67E**	**14**	**3.2D**		**¶97xi4849**	
ATH	**XI**	**27 12 17 12.7**	**37.28N**	**20.09E**	**15**			**¶97xi4854**	
ISC	**XI**	**27 13 33 06**±3.9	**37.2N**±.21	**20.7E**±.28	**0**±13			**15**	**1-5**
ATH	XI	27 13 33 08.6	37.29N	20.75E	5	3.3D		**¶97xi4870**	
THE	XI	27 13 33 11.9	37.5N	20.7E	10	3.3L			
ISC	**XI**	**27 13 46 47**±6.9	**37.3N**±.37	**20.7E**±.46	**5**			**4**	**1-2**
ATH	XI	27 13 46 47.8	37.34N	20.72E	5	3.0D		**¶97xi4872**	
ISC	Poorly determined								
ISC	**XI**	**27 14 03 24**±2.0	**37.5N**±.10	**20.8E**±.14	**5**±9.8			**19**	**1-4**
ATH	XI	27 14 03 25.6	37.46N	20.82E	5	3.4D		**¶97xi4873**	
THE	XI	27 14 03 28.4	37.6N	21.0E	10	3.4L			
ISC	**XI**	**27 14 11 24**±3.9	**37.5N**±.19	**20.7E**±.34	**5**			**4**	**1-2**
ATH	XI	27 14 11 24.9	37.40N	20.60E	5	3.2D		**¶97xi4874**	
ISC	Poorly determined								
ATH	**XI**	**27 15 00 39.7**	**37.34N**	**20.57E**	**5**	**2.9D**		**¶97xi4880**	
ISC	**XI**	**27 15 43 20**±7.0	**37.4N**±.33	**20.6E**±.53	**16**±19			**9**	**1-4**
ATH	XI	27 15 43 22.7	37.49N	20.67E	5			**¶97xi4891**	
ISC	**XI**	**27 16 15 29**±3.2	**37.5N**±.17	**20.9E**±.29	**5**			**4**	**1-2**
ATH	XI	27 16 15 30.4	37.43N	20.82E	5	2.9D		**¶97xi4895**	
ISC	Poorly determined								
ISC	**XI**	**27 17 47 04**±2.2	**37.1N**±.10	**20.9E**±.11	**4**±9.7	**3.9b**		**27**	**1-33**
EIDC	XI	27 17 47 04.6	37.2N	21.4E	0	3.9b,3.8L		**¶97xi4911**	
NEIC	XI	27 17 47 06.2	36.98N	21.04E	33				
ATH	XI	27 17 47 07.8	37.14N	20.98E	5	3.6L			
THE	XI	27 17 47 11.0	37.3N	21.1E	10	3.3L			
NEIC	Poor solution.								
ISC	**XI**	**27 18 03 18**±1.4	**37.47N**±.049	**20.60E**±.042	**6**±9.7	**3.8b**		**51**	**1-60**
ATH	XI	27 18 03 20.0	37.40N	20.59E	5	3.8L		**¶97xi4913**	
NEIC	XI	27 18 03 49.1	39.65N	20.68E	116	3.8b			
EIDC	XI	27 18 03 50.8	39.7N	20.5E	112	3.5b			
NEIC	Less reliable solution.								
ISC	**XI**	**27 18 21 01**±3.1	**37.5N**±.11	**20.9E**±.17	**0**±17			**17**	**1-4**
ATH	XI	27 18 21 00.6	37.41N	20.65E	5	3.3D		**¶97xi4916**	
THE	XI	27 18 21 00.7	37.3N	20.8E	10	3.3L			
ISC	**XI**	**27 19 24 35.9**±.81	**37.20N**±.040	**20.83E**±.032	**25**±6.7	**3.9b**,3.7s		**117**	**1-122**
EIDC	XI	27 19 24 34.0	37.3N	21.2E	0	4.0b,4.1L		**¶97xi4922**	
ATH	XI	27 19 24 35.9	37.13N	20.84E	5	4.1L			
BJI	XI	27 19 24 35.9	37.20N	20.90E	33				
NEIC	XI	27 19 24 35.9	37.18N	20.94E	33	4.0b			
THE	XI	27 19 24 36.9	37.2N	20.9E	10	4.2L			
PDG	XI	27 19 24 39.5	37.4N	20.1E	12	4.1L			
ISC	**XI**	**27 20 47 01**±3.0	**37.5N**±.14	**20.8E**±.25	**5**			**5**	**1-2**
ATH	XI	27 20 47 03.2	37.44N	20.81E	5	3.4D		**¶97xi4936**	
ISC	**XI**	**27 20 59 43**±3.7	**37.6N**±.17	**20.8E**±.28	**5**			**4**	**1-2**
ATH	XI	27 20 59 43.2	37.48N	20.64E	5	3.2D		**¶97xi4940**	
ISC	Poorly determined								
ATH	**XI**	**27 21 56 20.0**	**37.28N**	**20.43E**	**5**	**3.0D**		**¶97xi4942**	
ATH	**XI**	**27 22 32 25.2**	**37.33N**	**20.45E**	**5**	**3.0D**		**¶97xi4950**	
ATH	**XI**	**27 23 12 26.1**	**37.26N**	**20.43E**	**5**			**¶97xi4959**	
ATH	**XI**	**27 23 19 00.7**	**37.19N**	**20.68E**	**5**	**2.9D**		**¶97xi4960**	
ISC	**XI**	**27 23 58 12**±3.5	**37.3N**±.20	**21.0E**±.30	**5**			**4**	**1-2**
ATH	XI	27 23 58 12.9	37.27N	20.86E	5	3.1D		**¶97xi4964**	
ISC	Poorly determined								
ISC	**XI**	**27 23 59 44**±4.7	**37.4N**±.20	**20.7E**±.36	**1**±20			**6**	**1-3**
ATH	XI	27 23 59 47.1	37.46N	20.79E	5	3.4D		**¶97xi4965**	
ISC	**XI**	**28 00 52 09**±1.8	**37.60N**±.096	**20.8E**±.16	**5**			**19**	**1-4**
ATH	XI	28 00 52 07.7	37.43N	20.59E	5	3.4D		**¶97xi4977**	
THE	XI	28 00 52 08.0	37.3N	20.8E	10				
ISC	**XI**	**28 01 00 05**±2.6	**37.4N**±.13	**20.7E**±.20	**5**			**14**	**1-4**
ATH	XI	28 01 00 08.5	37.47N	20.84E	5	3.3D		**¶97xi4981**	
ISC	**XI**	**28 01 03 20**±4.1	**37.5N**±.22	**20.8E**±.32	**5**			**5**	**1-2**
ATH	XI	28 01 03 20.5	37.36N	20.77E	5			**¶97xi4982**	
ISC	**XI**	**28 01 10 25**±1.8	**37.32N**±.067	**20.80E**±.050	**3**±12			**32**	**1-5**
THE	XI	28 01 10 25.8	37.2N	20.8E	10	3.4L		**¶97xi4984**	
ATH	XI	28 01 10 28.7	37.37N	20.95E	5	3.6L			
ISC	**XI**	**28 01 19 58**±11	**37.2N**±.56	**20.7E**±.82	**5**			**5**	**1-2**
ATH	XI	28 01 20 00.9	37.28N	20.77E	5	3.2D		**¶97xi4987**	
ATH	**XI**	**28 01 29 33.1**	**37.27N**	**20.44E**	**5**	**3.1D**		**¶97xi4989**	
ISC	**XI**	**28 02 08 16**±9.5	**37.2N**±.44	**20.5E**±.70	**5**			**4**	**1-2**
ATH	XI	28 02 08 16.0	37.13N	20.33E	5	3.0D		**¶97xi4994**	
ISC	Poorly determined								
ISC	**XI**	**28 03 20 37**±1.4	**37.43N**±.053	**20.61E**±.062	**5**±9.2	**3.8b**		**38**	**1-38**
NEIC	XI	28 03 20 39.9	37.40N	21.17E	33			**¶97xi5000**	
EIDC	XI	28 03 20 40.3	37.5N	21.2E	21	3.8b,3.5L			
ATH	XI	28 03 20 40.9	37.51N	20.67E	5	3.6D			
THE	XI	28 03 20 43.8	37.6N	21.0E	10	3.4L			
NEIC	Less reliable solution.								
ATH	**XI**	**28 03 43 06.2**	**37.06N**	**20.58E**	**5**	**3.3D**		**¶97xi5002**	
ATH	**XI**	**28 04 54 00.2**	**37.29N**	**20.57E**	**5**	**2.9D**		**¶97xi5012**	
ISC	**XI**	**28 05 06 34**±3.1	**37.3N**±.17	**20.9E**±.25	**5**			**6**	**1-4**
ATH	XI	28 05 06 36.0	37.27N	20.96E	5	3.2D		**¶97xi5015**	
ATH	**XI**	**28 05 24 03.1**	**37.26N**	**20.64E**	**5**			**¶97xi5017**	
ISC	**XI**	**28 06 58 32**±3.8	**37.4N**±.19	**20.8E**±.32	**5**			**4**	**1-2**
ATH	XI	28 06 58 33.6	37.36N	20.76E	5	2.9D		**¶97xi5030**	
ISC	Poorly determined								
ISC	**XI**	**28 07 37 09**±6.3	**37.2N**±.25	**20.7E**±.42	**8**±26			**5**	**1-2**
ATH	XI	28 07 37 10.4	37.19N	20.69E	5	3.1D		**¶97xi5032**	
ISC	Poorly determined								
ISC	**XI**	**28 08 12 46**±1.0	**37.16N**±.070	**20.99E**±.062	**26**±8.9	**3.5b**		**35**	**1-55**
EIDC	XI	28 08 12 24.3	35.2N	21.8E	0	3.8b,3.5L		**¶97xi5036**	
THE	XI	28 08 12 45.5	37.1N	21.0E	10	3.3L			
ATH	XI	28 08 12 49.0	37.30N	21.24E	5	3.4L			
ATH	**XI**	**28 09 10 01.3**	**37.33N**	**20.44E**	**5**			**¶97xi5046**	
ISC	**XI**	**28 09 16 39**±7.3	**37.5N**±.31	**20.5E**±.69	**5**			**5**	**1-2**
ATH	XI	28 09 16 39.8	37.44N	20.56E	5	3.0D		**¶97xi5049**	
ISC	**XI**	**28 10 10 49**±4.4	**37.3N**±.19	**20.7E**±.30	**0**±15			**8**	**1-4**
ATH	XI	28 10 10 54.3	37.41N	20.97E	5	3.3D		**¶97xi5060**	
ATH	**XI**	**28 11 34 05.7**	**38.03N**	**19.43E**	**39**	**3.3D**		**¶97xi5076**	
ISC	**XI**	**28 12 24 14**±4.2	**37.4N**±.20	**20.8E**±.29	**5**			**4**	**1-2**
ATH	XI	28 12 24 15.1	37.39N	20.75E	5	3.3D		**¶97xi5082**	
ISC	Poorly determined								
ISC	**XI**	**28 13 43 54**±3.7	**37.4N**±.18	**20.8E**±.28	**5**			**4**	**1-2**
ATH	XI	28 13 43 55.5	37.39N	20.77E	5	3.1D		**¶97xi5094**	
ISC	Poorly determined								
ISC	**XI**	**28 13 52 59**±4.3	**37.3N**±.20	**20.7E**±.33	**5**			**5**	**1-2**
ATH	XI	28 13 53 00.9	37.29N	20.67E	5	3.1D		**¶97xi5095**	
ISC	**XI**	**28 13 56 18**±3.8	**37.4N**±.19	**20.9E**±.27	**5**			**4**	**1-2**
ATH	XI	28 13 56 18.3	37.34N	20.82E	5	3.3D		**¶97xi5096**	
ISC	Poorly determined								
ISC	**XI**	**28 15 53 34**±3.4	**37.4N**±.14	**20.8E**±.26	**6**±15			**10**	**1-4**
ATH	XI	28 15 53 37.2	37.45N	20.80E	5	3.4D		**¶97xi5112**	
ISC	**XI**	**28 16 06 22**±9.9	**37.2N**±.46	**20.2E**±.81	**41**			**5**	**1-2**
ATH	XI	28 16 06 21.4	37.19N	20.14E	41	3.4D		**¶97xi5113**	
ATH	**XI**	**28 18 05 22.1**	**37.18N**	**20.77E**	**5**	**2.9D**		**¶97xi5124**	
ISC	**XI**	**28 18 09 42**±2.0	**37.5N**±.10	**20.8E**±.15	**3**±12			**28**	**1-5**
ATH	XI	28 18 09 43.7	37.50N	20.83E	5	3.6L		**¶97xi5125**	
THE	XI	28 18 09 44.4	37.4N	21.1E	10	3.2L			
ISC	**XI**	**28 21 42 07**±2.2	**37.6N**±.13	**20.8E**±.20	**5**			**9**	**1-4**
ATH	XI	28 21 42 07.1	37.39N	20.63E	5	3.6L		**¶97xi5145**	
ISC	**XI**	**28 22 20 06**±2.7	**37.3N**±.13	**20.8E**±.11	**2**±15			**14**	**1-5**
ATH	XI	28 22 20 12.4	37.45N	21.01E	5	3.5L		**¶97xi5149**	
ATH	**XI**	**28 22 59 56.7**	**37.29N**	**20.49E**	**5**	**3.0D**		**¶97xi5152**	
ISC	**XI**	**28 23 10 47**±3.1	**37.4N**±.18	**20.9E**±.28	**5**			**4**	**1-2**
ATH	XI	28 23 10 48.0	37.35N	20.80E	5	3.0D		**¶97xi5154**	
ISC	Poorly determined								
ATH	**XI**	**28 23 14 24.5**	**37.31N**	**20.78E**	**5**			**¶97xi5155**	
ISC	**XI**	**29 01 56 37**±1.1	**37.39N**±.055	**20.75E**±.042	**19**±11	**3.8b**		**62**	**1-71**
NEIC	XI	29 01 56 34.9	37.19N	20.79E	33	4.1b		**¶97xi5174**	
BJI	XI	29 01 56 35.9	37.20N	20.80E	33				
THE	XI	29 01 56 36.4	37.3N	20.8E	10	3.8L			
ATH	XI	29 01 56 38.9	37.51N	21.00E	5	3.9L			
NEIC	Less reliable solution.								
ATH	**XI**	**29 03 20 42.4**	**37.22N**	**20.72E**	**5**	**3.1D**		**¶97xi5187**	
ISC	**XI**	**29 03 23 17**±4.7	**37.2N**±.25	**20.9E**±.35	**5**			**4**	**1-2**
ATH	XI	29 03 23 18.1	37.13N	20.85E	5	3.1D		**¶97xi5188**	
ISC	Poorly determined								
ISC	**XI**	**29 06 39 04**±4.7	**37.3N**±.25	**20.8E**±.37	**5**			**6**	**1-2**
ATH	XI	29 06 39 06.8	37.29N	20.86E	5	3.1D		**¶97xi5213**	
ISC	**XI**	**29 06 43 53**±2.3	**37.3N**±.14	**20.5E**±.17	**5**	3.5b		**15**	**1-25**
ATH	XI	29 06 43 56.8	37.32N	20.69E	5	3.7L		**¶97xi5214**	
ISC	**XI**	**29 07 11 02.6**±.80	**37.20N**±.071	**20.67E**±.063	**10**			**16**	**1-5**
ROM	XI	29 07 11 03.1	37.0N	20.8E	10	3.2D		**¶97xi5218**	
ATH	XI	29 07 11 03.2	37.14N	20.71E	5	3.5D			
ATH	**XI**	**29 07 50 56.8**	**37.18N**	**20.59E**	**5**	**3.0D**		**¶97xi5220**	
ISC	**XI**	**29 09 18 38**±7.5	**37.1N**±.40	**20.7E**±.63	**5**			**4**	**1-2**
ATH	XI	29 09 18 37.0	37.04N	20.65E	5	3.3D		**¶97xi5232**	
ISC	Poorly determined								
ISC	**XI**	**29 09 25 02**±2.9	**37.6N**±.13	**20.7E**±.25	**5**			**5**	**1-2**
ATH	XI	29 09 25 04.0	37.55N	20.72E	5	3.0D		**¶97xi5235**	
ISC	**XI**	**29 09 54 55**±2.1	**37.5N**±.12	**20.6E**±.18	**5**			**16**	**1-4**
ATH	XI	29 09 54 55.6	37.40N	20.61E	5	3.7L		**¶97xi5244**	
ISC	**XI**	**29 10 56 10**±3.4	**37.4N**±.18	**20.8E**±.30	**5**			**4**	**1-2**
ATH	XI	29 10 56 12.1	37.43N	20.83E	5	2.9D		**¶97xi5250**	
ISC	Poorly determined								
ISC	**XI**	**29 11 12 30**±2.8	**37.5N**±.15	**20.8E**±.22	**1**±15			**7**	**1-2**
ATH	XI	29 11 12 33.0	37.52N	20.87E	5	3.2D		**¶97xi5252**	
ISC	**XI**	**29 11 57 40**±2.9	**37.4N**±.16	**20.9E**±.25	**5**			**6**	**1-2**
ATH	XI	29 11 57 41.0	37.36N	20.85E	5	3.3D		**¶97xi5256**	
ISC	**XI**	**29 12 09 13**±4.1	**37.4N**±.20	**20.7E**±.34	**5**			**5**	**1-2**
ATH	XI	29 12 09 13.3	37.32N	20.58E	5	3.2D		**¶97xi5261**	
ISC	**XI**	**29 13 04 23**±1.8	**37.33N**±.078	**20.85E**±.063	**4**±12	3.7b		**22**	**1-24**
ATH	XI	29 13 04 26.8	37.41N	20.99E	5	3.7L		**¶97xi5270**	
ISC	**XI**	**29 13 16 26**±2.3	**37.5N**±.12	**20.9E**±.20	**5**			**10**	**1-4**
ATH	XI	29 13 16 26.1	37.37N	20.70E	5	3.5D		**¶97xi5271**	
ISC	**XI**	**29 13 18 42.4**±.75	**37.14N**±.077	**20.76E**±.055	**5**			**15**	**1-5**
ATH	XI	29 13 18 45.7	37.20N	20.85E	5	3.6D		**¶97xi5272**	

Agency	mo	Origin Time d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
ATH	**XI**	**29 14 41 02.9**	**37.24N**	**20.39E**	**5**	**3.0D**		**¶97xi5281**
ATH	**XI**	**29 16 45 57.3**	**37.26N**	**20.63E**	**5**	**3.1D**		**¶97xi5292**
ISC	**XI**	**29 17 08 47**±3.4	**37.4N**±.18	**20.9E**±.28	**5**		**5**	**1-2**
ATH	XI	29 17 08 48.9	37.32N	20.81E	5	3.1D		**¶97xi5293**
ISC	**XI**	**29 17 41 07**±3.7	**37.4N**±.18	**20.8E**±.30	**5**		**8**	**1-3**
ATH	XI	29 17 41 09.9	37.43N	20.88E	5	3.3D		**¶97xi5298**
ISC	**XI**	**29 17 56 34**±2.7	**37.5N**±.13	**20.9E**±.23	**5**		**5**	**1-2**
ATH	XI	29 17 56 35.8	37.47N	20.80E	5	3.0D		**¶97xi5300**
ISC	**XI**	**29 18 55 43**±3.2	**37.4N**±.18	**20.6E**±.25	**5**		**13**	**1-5**
ATH	XI	29 18 55 46.7	37.40N	20.80E	5	3.5L		**¶97xi5311**
ISC	**XI**	**29 20 44 02**±5.8	**37.4N**±.26	**20.8E**±.43	**1**±32		**5**	**1-2**
ATH	XI	29 20 44 04.1	37.38N	20.78E	5	3.2D		**¶97xi5320**
ISC		Poorly determined						
ISC	**XI**	**29 20 52 59**±3.0	**37.4N**±.17	**20.8E**±.30	**5**		**7**	**1-4**
ATH	XI	29 20 52 57.7	37.28N	20.66E	5	3.1D		**¶97xi5321**
ISC	**XI**	**29 21 55 36**±3.2	**37.5N**±.17	**20.9E**±.29	**5**		**4**	**1-2**
ATH	XI	29 21 55 36.8	37.43N	20.75E	5	3.0D		**¶97xi5327**
ISC		Poorly determined						
ISC	**XI**	**30 00 40 03**±3.8	**37.4N**±.16	**20.6E**±.30	**5**		**8**	**1-4**
ATH	XI	30 00 40 06.6	37.40N	20.67E	5	3.4D		**¶97xi5345**
ISC	**XI**	**30 06 10 26**±4.1	**37.3N**±.17	**20.7E**±.31	**5**		**6**	**1-2**
ATH	XI	30 06 10 29.3	37.38N	20.72E	5	3.4D		**¶97xi5371**
ISC	**XI**	**30 07 52 23.0**±.81	**37.28N**±.088	**20.76E**±.056	**5**		**16**	**1-5**
ATH	XI	30 07 52 29.2	37.38N	21.10E	5	3.4L		**¶97xi5382**
ATH	**XI**	**30 07 55 10.9**	**37.48N**	**20.47E**	**7**			**¶97xi5383**
ATH	**XI**	**30 09 13 13.0**	**37.26N**	**20.53E**	**21**			**¶97xi5391**
ISC	**XI**	**30 09 35 38**±3.1	**37.5N**±.14	**20.8E**±.24	**13**±19		**6**	**1-2**
ATH	XI	30 09 35 40.7	37.56N	20.90E	5	3.2D		**¶97xi5393**
ISC	**XI**	**30 09 36 57**±4.9	**37.5N**±.27	**20.8E**±.37	**5**		**4**	**1-2**
ATH	XI	30 09 36 57.7	37.43N	20.74E	5	3.3D		**¶97xi5395**
ISC		Poorly determined						
ISC	**XI**	**30 09 45 24**±3.5	**37.4N**±.17	**20.8E**±.26	**5**		**5**	**1-2**
ATH	XI	30 09 45 24.2	37.38N	20.75E	5	3.4D		**¶97xi5397**
ATH	**XI**	**30 11 09 23.0**	**37.27N**	**20.53E**	**35**	**3.3D**		**¶97xi5406**
ISC	**XI**	**30 15 23 36**±5.0	**37.5N**±.20	**20.6E**±.38	**5**		**4**	**1-2**
ATH	XI	30 15 23 36.9	37.47N	20.59E	5			**¶97xi5425**
ISC		Poorly determined						
ISC	**XI**	**30 16 09 36**±5.4	**37.3N**±.26	**20.4E**±.44	**5**		**9**	**1-5**
ATH	XI	30 16 09 44.9	37.54N	21.15E	5	3.4L		**¶97xi5431**
ATH	**XI**	**30 21 44 23.8**	**37.29N**	**20.42E**	**5**			**¶97xi5465**
ATH	**XI**	**30 23 55 05.2**	**37.21N**	**20.39E**	**10**	**3.2D**		**¶97xi5482**
ISC	**XII**	**01 03 17 09**±3.2	**37.6N**±.16	**20.7E**±.31	**5**		**8**	**1-4**
ATH	XII	01 03 17 08.8	37.47N	20.71E	5	3.4D		**¶97xii0021**
ISC	**XII**	**01 03 21 16**±2.7	**37.6N**±.15	**20.8E**±.27	**5**		**8**	**1-4**
ATH	XII	01 03 21 15.8	37.41N	20.77E	5	3.5D		**¶97xii0023**
ATH	**XII**	**01 06 20 15.4**	**37.39N**	**19.90E**	**40**	**3.1D**		**¶97xii0044**
ATH	**XII**	**01 07 27 37.9**	**37.34N**	**20.09E**	**21**	**3.4D**		**¶97xii0051**
ISC	**XII**	**01 10 05 00**±5.6	**37.7N**±.24	**20.5E**±.59	**5**		**4**	**0-2**
ATH	XII	01 10 04 53.4	37.51N	19.82E	5	3.4D		**¶97xii0067**
ISC		Poorly determined						
THE	**XII**	**01 12 37 30.8**	**37.1N**	**20.9E**	**15**			**¶97xii0085**
ISC	**XII**	**01 14 30 47**±9.1	**37.5N**±.20	**19.5E**±.86	**4**		**4**	**1-3**
ATH	XII	01 14 30 48.7	37.46N	19.59E	4	3.4D		**¶97xii0101**
ISC		Poorly determined						
ISC	**XII**	**01 15 29 33**±2.8	**37.4N**±.15	**21.0E**±.24	**5**		**5**	**1-2**
ATH	XII	01 15 29 32.5	37.27N	20.88E	5	3.3D		**¶97xii0105**
ATH	**XII**	**01 15 39 18.3**	**37.30N**	**20.67E**	**5**	**3.2D**		**¶97xii0106**
ISC	**XII**	**01 19 09 56.1**±.75	**37.43N**±.068	**20.69E**±.053	**5**	**3.9b**	**35**	**1-74**
ATH	XII	01 19 09 56.2	37.38N	20.47E	5	3.9L		**¶97xii0130**
ISC	**XII**	**01 19 19 27**±2.3	**37.6N**±.13	**20.7E**±.18	**5**		**20**	**1-5**
ATH	XII	01 19 19 25.9	37.38N	20.44E	5	3.8L		**¶97xii0133**
ISC	**XII**	**01 20 33 00**±2.3	**37.6N**±.13	**20.9E**±.19	**5**		**5**	**1-2**
ATH	XII	01 20 33 00.2	37.51N	20.85E	5	3.2D		**¶97xii0141**
ATH	**XII**	**01 20 45 28.7**	**37.32N**	**20.23E**	**21**	**3.4D**		**¶97xii0146**
ISC	**XII**	**01 20 59 34**±3.5	**37.5N**±.13	**20.8E**±.15	**4**±17	3.5b	**27**	**1-24**
ATH	XII	01 20 59 33.1	37.33N	20.63E	5	3.8L		**¶97xii0149**
THE	XII	01 20 59 34.1	37.3N	20.8E	10	3.4L		
ATH	**XII**	**02 00 48 58.7**	**37.27N**	**20.17E**	**10**	**3.2D**		**¶97xii0164**
ISC	**XII**	**02 01 04 30**±3.4	**37.6N**±.13	**20.8E**±.15	**4**±17		**26**	**1-4**
THE	XII	02 01 04 29.0	37.4N	20.6E	15	3.3L		**¶97xii0166**
ATH	XII	02 01 04 29.9	37.44N	20.71E	5	3.7L		
ISC	**XII**	**02 03 42 25.8**±.57	**37.42N**±.043	**20.70E**±.042	**47**±5.8	**4.2b**	**83**	**1-83**
THE	XII	02 03 42 22.7	37.2N	20.6E	10	4.0L		**¶97xii0178**
NEIC	XII	02 03 42 24.0	37.34N	20.81E	33	4.5b		
ATH	XII	02 03 42 26.0	37.46N	20.94E	5	4.0L		
EIDC	XII	02 03 42 27.4±2.71	37.5N	21.0E	37±22.6	4.0b,4.1L		
PDG	XII	02 03 42 27.8	37.6N	19.1E	18	3.8L		
EIDC	Error ellipse is semi−major=17.5km semi−minor=15.0km azimuth=118							
ISC	**XII**	**02 04 39 47.9**±.83	**37.39N**±.067	**20.76E**±.074	**10**	**3.7b**	**39**	**2-46**
THE	XII	02 04 39 51.1	37.5N	21.0E	10	3.4L		**¶97xii0183**
ATH	XII	02 04 39 52.8	37.46N	21.10E	5	3.5L		
EIDC	XII	02 04 40 02.1±6.96	37.1N	21.3E	117±73.0	3.5b		
EIDC	Error ellipse is semi−major=44.3km semi−minor=24.0km azimuth=94							
ISC	**XII**	**02 09 09 39**±6.7	**37.7N**±.45	**20.8E**±.22	**10**		**4**	**0-2**
ATH	XII	02 09 09 34.5	37.38N	20.65E	10			**¶97xii0220**
ISC		Poorly determined						
ATH	**XII**	**02 10 10 39.5**	**37.61N**	**20.24E**	**10**			**¶97xii0226**
ISC	**XII**	**02 10 58 09**±4.1	**37.7N**±.20	**20.6E**±.44	**5**		**4**	**0-2**
ATH	XII	02 10 58 07.8	37.62N	20.47E	5	3.3D		**¶97xii0229**
ISC		Poorly determined						
ISC	**XII**	**02 11 14 45**±2.5	**37.6N**±.12	**21.0E**±.13	**3**±13		**20**	**1-4**
ATH	XII	02 11 14 45.4	37.46N	20.82E	5	3.4L		**¶97xii0232**
ISC	**XII**	**02 13 25 48**±3.1	**37.5N**±.12	**20.9E**±.13	**10**±16		**21**	**1-4**
ATH	XII	02 13 25 48.1	37.38N	20.88E	5	3.6L		**¶97xii0254**
ATH	**XII**	**02 13 52 18.2**	**37.42N**	**20.92E**	**5**			**¶97xii0259**
ISC	**XII**	**02 14 01 53**±4.2	**37.7N**±.16	**20.8E**±.22	**13**±23		**9**	**1-4**
ATH	XII	02 14 01 51.9	37.55N	20.76E	5			**¶97xii0260**
ISC	**XII**	**02 14 03 33**±3.6	**37.5N**±.16	**20.7E**±.31	**5**		**4**	**1-2**
ATH	XII	02 14 03 32.9	37.41N	20.66E	5			**¶97xii0262**
ISC		Poorly determined						
ATH	**XII**	**02 15 32 30.3**	**37.41N**	**20.60E**	**10**			**¶97xii0273**
ISC	**XII**	**02 15 34 41**±3.5	**37.3N**±.17	**20.8E**±.30	**5**		**4**	**1-2**
ATH	XII	02 15 34 40.4	37.21N	20.73E	5	3.1D		**¶97xii0274**
ISC		Poorly determined						
ISC	**XII**	**02 16 00 52**±6.1	**37.4N**±.24	**20.1E**±.59	**5**		**9**	**1-4**
ATH	XII	02 16 00 52.9	37.42N	20.25E	5	3.3D		**¶97xii0278**
ISC	**XII**	**02 16 11 38**±1.8	**37.42N**±.067	**20.82E**±.050	**2**±12		**40**	**1-15**
ATH	XII	02 16 11 41.8	37.42N	20.94E	5	3.7L		**¶97xii0280**
THE	XII	02 16 11 42.1	37.5N	21.0E	10	3.6L		
ISC	**XII**	**02 18 08 57**±2.6	**37.7N**±.14	**20.7E**±.25	**5**		**8**	**0-4**
ATH	XII	02 18 08 56.7	37.64N	20.73E	5	3.4D		**¶97xii0291**
ISC	**XII**	**02 19 20 55**±2.7	**37.5N**±.15	**21.0E**±.23	**5**		**4**	**1-2**
ATH	XII	02 19 20 54.7	37.40N	20.89E	5			**¶97xii0299**
ISC		Poorly determined						
ATH	**XII**	**02 19 51 22.1**	**37.38N**	**20.74E**	**5**			**¶97xii0302**
ISC	**XII**	**02 21 21 12**±5.7	**37.5N**±.27	**20.5E**±.57	**5**		**5**	**1-2**
ATH	XII	02 21 21 13.1	37.48N	20.63E	5			**¶97xii0313**
ISC	**XII**	**02 23 29 11**±2.8	**37.6N**±.16	**20.8E**±.25	**5**		**4**	**1-2**
ATH	XII	02 23 29 10.4	37.49N	20.74E	5			**¶97xii0327**
ISC		Poorly determined						
ISC	**XII**	**02 23 51 46**±3.3	**37.4N**±.17	**20.8E**±.30	**10**		**6**	**1-3**
ATH	XII	02 23 51 43.8	37.22N	20.45E	10	3.1D		**¶97xii0330**
ISC	**XII**	**03 00 38 29**±4.7	**37.3N**±.24	**20.7E**±.44	**10**		**4**	**1-2**
ATH	XII	03 00 38 26.5	37.09N	20.49E	10	3.3D		**¶97xii0339**
ISC		Poorly determined						
ISC	**XII**	**03 01 36 47**±1.3	**37.19N**±.094	**20.9E**±.10	**5**	**3.7b**	**26**	**1-32**
NEIC	XII	03 01 36 47.0	36.83N	20.68E	33			**¶97xii0347**
ATH	XII	03 01 36 49.2	37.20N	20.97E	5	3.5L		
EIDC	XII	03 01 36 59.2	37.3N	20.5E	103±86.3	3.5b,3.4L		
NEIC	Poor solution.							
EIDC	Origin time error = 17.57Error ellipse is semi−major=183.8km semi−minor=41.5km azimuth=4							
ATH	**XII**	**03 04 22 43.5**	**37.51N**	**20.67E**	**5**	**3.2D**		**¶97xii0363**
ATH	**XII**	**03 09 40 06.0**	**37.18N**	**20.28E**	**10**	**2.8D**		**¶97xii0400**
ATH	**XII**	**03 10 05 25.1**	**37.32N**	**20.44E**	**5**			**¶97xii0403**
ISC	**XII**	**03 11 44 14**±3.7	**37.5N**±.17	**20.7E**±.31	**5**		**5**	**1-2**
ATH	XII	03 11 44 15.9	37.49N	20.72E	5			**¶97xii0413**
ATH	**XII**	**03 12 39 59.8**	**37.15N**	**20.34E**	**10**	**2.9D**		**¶97xii0422**
ISC	**XII**	**03 14 10 22**±2.3	**37.5N**±.11	**20.7E**±.20	**5**		**16**	**1-5**
ATH	XII	03 14 10 21.6	37.35N	20.61E	5	3.6D		**¶97xii0436**
ATH	**XII**	**03 14 15 38.6**	**37.52N**	**20.60E**	**10**	**2.8D**		**¶97xii0437**
ISC	**XII**	**03 14 22 39**±1.8	**37.4N**±.11	**21.0E**±.14	**15**		**21**	**1-5**
THE	XII	03 14 22 36.8	37.2N	20.9E	15	3.4L		**¶97xii0441**
ATH	XII	03 14 22 38.6	37.36N	20.95E	5	3.6L		
ISC	**XII**	**03 15 33 17**±3.9	**37.6N**±.17	**20.7E**±.30	**5**		**5**	**1-2**
ATH	XII	03 15 33 15.4	37.45N	20.50E	5	2.9D		**¶97xii0456**
ATH	**XII**	**03 17 11 23.2**	**37.20N**	**20.70E**	**10**	**2.9D**		**¶97xii0466**
ATH	**XII**	**03 17 26 43.4**	**37.33N**	**20.39E**	**5**	**3.1D**		**¶97xii0467**
ATH	**XII**	**03 17 28 16.6**	**37.12N**	**20.40E**	**10**			**¶97xii0468**
ISC	**XII**	**03 17 55 03**±3.0	**37.3N**±.19	**20.9E**±.25	**5**		**10**	**1-4**
ATH	XII	03 17 55 05.2	37.34N	20.90E	5	3.5D		**¶97xii0474**
ISC	**XII**	**03 18 08 51**±1.8	**37.40N**±.079	**20.5E**±.13	**28**±13	**3.5b**	**26**	**1-32**
THE	XII	03 18 08 50.2	37.4N	20.6E	0	3.4L		**¶97xii0475**
NEIC	XII	03 18 08 51.8	37.53N	20.63E	33			
ATH	XII	03 18 08 54.7	37.53N	20.81E	5	3.7D		
EIDC	XII	03 18 09 04.7±4.92	37.6N	21.2E	153±53.2	3.3b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=35.9km semi−minor=22.4km azimuth=100							
ISC	**XII**	**03 18 24 22**±1.1	**37.41N**±.074	**20.7E**±.10	**5**	**3.5b**	**21**	**1-32**
ATH	XII	03 18 24 20.7	37.39N	20.33E	5	3.8L		**¶97xii0476**
NEIC	XII	03 18 24 23.9	37.21N	23.35E	33			
EIDC	XII	03 18 24 38.6	37.3N	22.1E	161±163.7	3.2b,3.6L		
NEIC	Poor solution.							
EIDC	Origin time error = 15.60Error ellipse is semi−major=174.6km semi−minor=24.0km azimuth=93							
ISC	**XII**	**03 18 28 49**±1.7	**37.59N**±.098	**21.0E**±.17	**5**		**15**	**1-4**
ATH	XII	03 18 28 48.8	37.42N	20.82E	5	3.3D		**¶97xii0477**
ATH	**XII**	**03 20 11 50.8**	**37.17N**	**20.54E**	**10**	**2.9D**		**¶97xii0494**
ISC	**XII**	**03 20 37 58**±6.9	**37.3N**±.36	**20.7E**±.52	**10**		**4**	**1-2**
ATH	XII	03 20 37 56.7	37.19N	20.51E	10	3.0D		**¶97xii0498**
ISC		Poorly determined						
ISC	**XII**	**03 21 20 15**±3.1	**37.3N**±.18	**20.9E**±.24	**5**		**13**	**1-4**
ATH	XII	03 21 20 17.1	37.37N	20.88E	5	3.3D		**¶97xii0503**
ISC	**XII**	**03 22 34 33.0**±.93	**37.45N**±.061	**20.89E**±.092	**59**±9.0	**3.8b**	**44**	**1-70**
EIDC	XII	03 22 34 27.4±.87	37.4N	21.1E	0	3.9b,3.8L		**¶97xii0513**
NEIC	XII	03 22 34 30.2	37.38N	20.89E	33	4.0b		
ATH	XII	03 22 34 35.0	37.37N	21.07E	5	3.7L		
EIDC	Error ellipse is semi−major=20.7km semi−minor=17.4km azimuth=105							
ATH	**XII**	**03 23 56 59.9**	**37.31N**	**20.42E**	**5**	**2.9D**		**¶97xii0521**
ATH	**XII**	**04 02 43 24.7**	**37.21N**	**20.33E**	**10**	**2.9D**		**¶97xii0543**
ISC	**XII**	**04 03 12 14**±3.7	**37.4N**±.17	**20.7E**±.31	**5**		**6**	**1-2**
ATH	XII	04 03 12 17.5	37.46N	20.79E	5	3.3D		**¶97xii0547**
ATH	**XII**	**04 04 36 02.2**	**37.37N**	**20.64E**	**5**	**3.3D**		**¶97xii0556**
ISC	**XII**	**04 07 03 04**±5.5	**37.3N**±.22	**20.5E**±.43	**5**		**5**	**1-2**
ATH	XII	04 07 03 07.1	37.42N	20.54E	5	3.1D		**¶97xii0570**
ISC	**XII**	**04 08 58 00**±3.1	**37.5N**±.14	**20.7E**±.23	**3**±11		**18**	**1-5**
THE	XII	04 08 57 58.3	37.2N	20.8E	0	3.5L		**¶97xii0585**
ATH	XII	04 08 58 03.0	37.48N	20.74E	5	3.5D		
ISC	**XII**	**04 10 48 36**±6.4	**37.3N**±.27	**20.2E**±.52	**5**		**14**	**1-5**
ATH	XII	04 10 48 41.1	37.39N	20.50E	5	3.5D		**¶97xii0600**
ATH	**XII**	**04 15 02 40.0**	**37.06N**	**20.46E**	**10**	**2.9D**		**¶97xii0636**
ATH	**XII**	**04 16 13 30.3**	**37.24N**	**20.52E**	**5**	**3.0D**		**¶97xii0645**
ATH	**XII**	**04 16 32 48.2**	**37.15N**	**20.57E**	**5**	**3.1D**		**¶97xii0650**
ATH	**XII**	**04 17 48 06.3**	**37.30N**	**20.46E**	**5**	**3.0D**		**¶97xii0661**
ISC	**XII**	**04 19 30 42**±1.0	**37.36N**±.064	**20.62E**±.099	**5**	**3.8b**	**30**	**1-70**
EIDC	XII	04 19 30 42.1±1.31	37.6N	21.2E	0	3.8b		**¶97xii0676**
ATH	XII	04 19 30 44.5	37.45N	20.72E	5	3.7L		
NEIC	XII	04 19 30 45.0	37.49N	21.17E	33			
EIDC	Error ellipse is semi−major=40.9km semi−minor=21.8km azimuth=84							
NEIC	Less reliable solution.							
ISC	**XII**	**04 19 44 16**±2.7	**37.5N**±.14	**20.8E**±.27	**5**		**5**	**1-2**
ATH	XII	04 19 44 16.3	37.37N	20.73E	5	3.2D		**¶97xii0680**
ISC	**XII**	**04 21 48 56**±10	**37.2N**±.49	**20.5E**±.78	**5**		**6**	**1-2**
ATH	XII	04 21 49 00.1	37.30N	20.70E	5	3.2D		**¶97xii0697**
ATH	**XII**	**04 22 23 11.4**	**37.29N**	**20.53E**	**5**	**3.0D**		**¶97xii0703**
ISC	**XII**	**04 23 37 00**±3.6	**37.3N**±.19	**20.9E**±.29	**5**		**5**	**1-2**
ATH	XII	04 23 37 02.2	37.30N	20.85E	5	3.1D		**¶97xii0721**
ISC	**XII**	**05 00 54 25**±5.2	**37.4N**±.23	**20.6E**±.39	**5**		**5**	**1-2**
ATH	XII	05 00 54 28.5	37.39N	20.74E	5	3.2D		**¶97xii0746**
ATH	**XII**	**05 01 09 36.3**	**37.28N**	**20.37E**	**5**	**3.1D**		**¶97xii0752**
ISC	**XII**	**05 12 47 37**±1.2	**37.18N**±.061	**20.84E**±.053	**25**±11	**3.7b**	**38**	**1-96**
EIDC	XII	05 12 47 34.3±1.11	37.3N	21.1E	0	3.9b		**¶97xii0870**
NEIC	XII	05 12 47 35.6	37.06N	21.00E	33			
ATH	XII	05 12 47 36.4	37.19N	20.79E	5	3.8D		
THE	XII	05 12 47 39.9	37.4N	21.1E	5	3.5L		
EIDC	Error ellipse is semi−major=33.9km semi−minor=23.0km azimuth=78							
ISC	**XII**	**05 12 53 44**±1.2	**37.43N**±.043	**20.74E**±.045	**17**±10	**4.2b**	**80**	**1-60**
PDG	XII	05 12 53 43.3	37.2N	19.7E	12	4.1L		**¶97xii0875**
THE	XII	05 12 53 44.1	37.2N	21.0E	5	3.9L		
ATH	XII	05 12 53 44.1	37.40N	20.80E	5	4.1D		

NEIC XII 05 12 53 45.7 37.43N 20.83E 33 4.3b
EIDC XII 05 12 53 52.7±5.16 37.7N 20.3E 73±48.3 4.0b,3.6L
EIDC Error ellipse is semi-major=37.1km semi-minor=19.1km azimuth=134
ISC XII 05 14 38 26±1.6 **37.42N**±.096 **20.6E**±.13 **5** **20 1-8**
ATH XII 05 14 38 26.1 37.36N 20.63E 5 3.6D **¶97xii0910**
ISC XII 05 17 02 13±1.3 **37.32N**±.060 **20.67E**±.065 **26**±11 **3.7b** **36 1-70**
EIDC XII 05 17 02 10.7±1.20 37.4N 21.0E 0 3.8b **¶97xii0973**
ATH XII 05 17 02 13.2 37.40N 20.65E 5 3.7L
NEIC XII 05 17 02 13.5 37.36N 20.91E 33
THE XII 05 17 02 14.2 37.5N 20.7E 10 3.5L
EIDC Error ellipse is semi-major=34.6km semi-minor=20.5km azimuth=73
NEIC Less reliable solution.
THE XII 05 17 13 01.2 37.5N 20.9E 10 ¶97xii0979
ISC XII 05 18 00 20.3±.86 **37.45N**±.070 **20.67E**±.063 **5** **24 1-5**
ATH XII 05 18 00 20.4 37.39N 20.61E 5 3.6D **¶97xii0999**
THE XII 05 18 00 23.7 37.5N 20.8E 15 3.3L
ISC XII 06 02 40 42±2.0 **37.5N**±.12 **20.8E**±.17 **18**±14 **20 1-4**
THE XII 06 02 40 42.9 37.5N 21.1E 0 3.2L **¶97xii1211**
ATH XII 06 02 40 43.7 37.92N 21.35E 10 3.3D
ATH XII 06 03 57 08.1 37.20N 20.79E 5 3.5D ¶97xii1238
ISC XII 06 07 43 58±1.8 **37.37N**±.072 **20.4E**±.11 **17**±12 **4.0b** **37 1-48**
EIDC XII 06 07 43 57.8±1.37 37.5N 20.5E 0 4.0b,3.7L **¶97xii1295**
THE XII 06 07 44 00.3 37.4N 20.8E 0 3.6L
NEIC XII 06 07 44 00.5 37.51N 20.38E 33 4.2b
ATH XII 06 07 44 00.6 37.41N 20.69E 5 3.7D
EIDC Error ellipse is semi-major=53.9km semi-minor=22.5km azimuth=91
NEIC Less reliable solution.
ATH XII 06 08 30 57.5 37.05N 20.40E 5 3.1D ¶97xii1307
ISC XII 06 09 10 30±3.8 **37.3N**±.22 **20.6E**±.28 **20** **10 1-5**
ATH XII 06 09 10 29.1 37.21N 20.38E 20 3.2D **¶97xii1325**
THE XII 06 09 10 29.7 37.1N 20.6E 15
ISC XII 06 11 46 03±3.3 **37.8N**±.18 **20.9E**±.21 **128**±29 **20 0-5**
ATH XII 06 11 46 10.5 37.91N 21.31E 10 3.3D **¶97xii1388**
ISC XII 06 17 20 14±3.4 **37.7N**±.21 **20.9E**±.17 **112**±31 **18 1-4**
ATH XII 06 17 20 19.5 37.86N 21.24E 10 3.5D **¶97xii1475**
ATH XII 06 21 46 58.5 37.12N 20.40E 10 3.1D ¶97xii1541
ATH XII 06 22 10 58.2 37.20N 20.06E 30 3.3D ¶97xii1544
ATH XII 06 22 24 19.3 37.32N 20.55E 10 3.2D ¶97xii1546
ATH XII 06 22 54 35.6 37.16N 20.32E 10 3.1D ¶97xii1549
ISC XII 06 23 33 35.9±.66 **37.42N**±.048 **20.74E**±.062 **54**±6.4 **4.0b** **56 1-74**
NEIC XII 06 23 33 33.6 37.36N 20.84E 33 4.1b **¶97xii1558**
ATH XII 06 23 33 35.0 37.38N 20.64E 15 3.7L
THE XII 06 23 33 35.2 37.4N 20.9E 5 3.7L
EIDC XII 06 23 33 37.7±3.02 37.5N 20.8E 51±29.1 3.9b,3.8L
EIDC Error ellipse is semi-major=21.0km semi-minor=14.4km azimuth=96
ATH XII 07 01 32 00.2 37.08N 20.68E 10 3.2D ¶97xii1577
ATH XII 07 02 42 41.6 37.20N 20.41E 10 3.0D ¶97xii1591
ISC XII 07 02 48 26±4.5 **37.3N**±.27 **21.0E**±.32 **5** **9 1-3**
ATH XII 07 02 48 22.7 37.25N 20.65E 5 3.3D **¶97xii1592**
ATH XII 07 02 57 51.2 37.96N 20.58E 10 ¶97xii1593
ISC XII 07 03 49 21±2.3 **37.64N**±.090 **20.9E**±.14 **3**±12 **25 1-5**
THE XII 07 03 49 20.0 37.5N 20.9E 5 3.2L **¶97xii1601**
ATH XII 07 03 49 20.1 37.48N 20.67E 5 3.5D
ATH XII 07 04 28 03.5 37.07N 20.56E 10 3.2D ¶97xii1612
ISC XII 07 07 31 40±3.2 **37.4N**±.15 **20.8E**±.25 **5** **7 1-55**
ATH XII 07 07 31 42.1 37.38N 20.80E 5 3.1D **¶97xii1649**
ISC XII 07 08 28 07±2.1 **37.6N**±.13 **20.8E**±.19 **15** **14 1-4**
THE XII 07 08 28 08.1 37.6N 20.7E 15 3.2L **¶97xii1659**
ATH XII 07 08 28 09.2 37.75N 21.02E 3 3.6L
ISC XII 07 09 29 30±2.5 **37.5N**±.13 **20.8E**±.21 **5** **7 1-2**
ATH XII 07 09 29 31.9 37.53N 20.87E 5 3.2D **¶97xii1668**
ATH XII 07 10 43 38.6 37.36N 20.56E 5 3.0D ¶97xii1679
ATH XII 07 12 31 52.2 37.27N 20.46E 5 3.0D ¶97xii1698
ATH XII 07 14 33 01.1 37.18N 20.74E 5 3.0D ¶97xii1720
ISC XII 07 17 25 32±4.4 **37.5N**±.22 **20.7E**±.37 **5** **5 1-2**
ATH XII 07 17 25 34.9 37.54N 20.93E 5 3.3D **¶97xii1745**
ISC XII 07 18 25 40±4.9 **37.4N**±.17 **20.6E**±.35 **6**±20 **6 1-2**
ATH XII 07 18 25 43.3 37.46N 20.75E 5 3.4D **¶97xii1758**
ATH XII 07 19 35 26.6 37.17N 20.65E 5 3.0D ¶97xii1774
ISC XII 07 20 00 24.0±.98 **37.29N**±.053 **20.84E**±.045 **23**±7.6 **3.8b** **65 1-73**
EIDC XII 07 20 00 22.1±.81 37.4N 21.2E 0 4.0b,3.8L **¶97xii1780**
NEIC XII 07 20 00 22.9 37.15N 20.99E 33 4.0b
ATH XII 07 20 00 23.3 37.25N 20.72E 5 4.0L
THE XII 07 20 00 27.4 37.5N 20.9E 10 3.9L
EIDC Error ellipse is semi-major=18.4km semi-minor=15.8km azimuth=94Multiple, same az
ATH XII 07 20 12 57.3 37.29N 20.52E 5 2.9D ¶97xii1783
ISC XII 07 21 00 28±3.6 **37.5N**±.17 **20.7E**±.31 **5** **5 1-2**
ATH XII 07 21 00 29.7 37.47N 20.72E 5 3.2D **¶97xii1786**
ISC XII 07 21 59 38±3.5 **37.6N**±.17 **20.8E**±.27 **5** **4 1-2**
ATH XII 07 21 59 37.3 37.49N 20.64E 5 **¶97xii1792**
ISC Poorly determined
ATH XII 07 22 17 37.6 37.13N 20.56E 10 3.0D ¶97xii1794
ISC XII 07 22 31 25±5.5 **37.2N**±.25 **20.6E**±.41 **5** **4 1-2**
ATH XII 07 22 31 26.7 37.16N 20.58E 5 3.1D **¶97xii1798**
ISC Poorly determined
ISC XII 07 23 40 23±2.9 **37.4N**±.16 **20.9E**±.27 **5** **5 1-2**
ATH XII 07 23 40 23.8 37.28N 20.87E 5 3.2D **¶97xii1815**
ISC XII 08 00 29 39±3.4 **37.6N**±.17 **20.8E**±.26 **5** **4 1-2**
ATH XII 08 00 29 40.1 37.48N 20.75E 5 2.9D **¶97xii1826**
ISC Poorly determined
ATH XII 08 03 41 42.1 37.31N 20.52E 5 3.0D ¶97xii1856
ISC XII 08 04 28 24±3.5 **37.4N**±.16 **20.8E**±.28 **5** **6 1-2**
ATH XII 08 04 28 25.6 37.36N 20.73E 5 3.2D **¶97xii1862**
ISC XII 08 05 00 18±3.3 **37.3N**±.19 **20.8E**±.25 **5** **18 1-5**
ATH XII 08 05 00 20.5 37.28N 20.78E 5 3.5D **¶97xii1868**
THE XII 08 05 00 21.7 37.3N 21.0E 15 3.3L
ATH XII 08 07 58 40.2 37.40N 20.72E 5 3.1D ¶97xii1889
ISC XII 08 09 35 25±3.5 **37.5N**±.17 **20.8E**±.27 **5** **5 1-2**
ATH XII 08 09 35 24.5 37.40N 20.71E 5 3.1D **¶97xii1904**
ATH XII 08 11 06 01.3 37.24N 20.52E 5 2.8D ¶97xii1916
ISC XII 08 14 01 39±3.8 **37.4N**±.20 **20.9E**±.27 **5** **4 1-2**
ATH XII 08 14 01 40.8 37.40N 20.87E 5 2.8D **¶97xii1939**
ISC Poorly determined
ISC XII 08 14 44 13±3.0 **37.4N**±.14 **20.8E**±.25 **5** **6 1-2**
ATH XII 08 14 44 14.7 37.46N 20.77E 5 3.1D **¶97xii1944**
ISC XII 08 15 32 52.7±.96 **37.27N**±.048 **20.81E**±.054 **25**±8.4 **3.7b**,3.4s **53 1-122**
EIDC XII 08 15 32 50.2±.85 37.3N 21.1E 0 3.8b,3.8L **¶97xii1949**
THE XII 08 15 32 52.3 37.1N 20.9E 15 3.8L
NEIC XII 08 15 32 53.2 37.30N 20.90E 33
ATH XII 08 15 32 55.0 37.43N 20.97E 5 4.0L
EIDC Error ellipse is semi-major=22.4km semi-minor=17.7km azimuth=91
ISC XII 08 15 44 28±4.0 **37.4N**±.20 **20.8E**±.29 **5** **4 1-2**
ATH XII 08 15 44 29.0 37.31N 20.80E 5 2.7D **¶97xii1953**
ISC Poorly determined
ISC XII 08 15 51 52±3.2 **37.3N**±.16 **20.9E**±.25 **5** **7 1-2**
ATH XII 08 15 51 54.1 37.32N 20.82E 5 3.5D **¶97xii1956**
ATH XII 08 16 29 07.1 37.24N 20.64E 5 2.8D ¶97xii1960
ATH XII 08 16 47 34.3 37.40N 20.43E 5 2.8D ¶97xii1965
ATH XII 08 16 55 26.8 37.29N 20.56E 5 2.9D ¶97xii1966
ISC XII 08 17 29 18±2.9 **37.6N**±.15 **20.9E**±.23 **5** **4 1-2**
ATH XII 08 17 29 18.4 37.55N 20.83E 5 **¶97xii1974**
ISC Poorly determined
ATH XII 08 17 56 03.8 37.26N 20.41E 5 3.0D ¶97xii1979
ISC XII 08 19 30 22±2.8 **37.5N**±.16 **20.9E**±.24 **5** **5 1-2**
ATH XII 08 19 30 19.3 37.34N 20.57E 5 2.9D **¶97xii1998**
ISC XII 08 19 38 42.7±.71 **37.25N**±.057 **20.76E**±.049 **5** **37 1-6**
ATH XII 08 19 38 45.8 37.28N 20.85E 5 3.7L **¶97xii2001**
NEIC XII 08 19 38 46.2 37.35N 20.82E 33
THE XII 08 19 38 46.2 37.3N 20.8E 15 3.5L
ATH XII 08 19 45 04.5 37.27N 20.54E 5 2.8D ¶97xii2005
ATH XII 08 20 04 44.9 37.01N 20.92E 5 2.8D ¶97xii2008
ISC XII 08 20 09 04±1.7 **37.31N**±.064 **20.77E**±.052 **4**±11 **3.9b** **42 1-46**
EIDC XII 08 20 09 02.4±4.14 37.2N 21.1E 0 3.9b,3.6L **¶97xii2009**
NEIC XII 08 20 09 05.2 37.18N 20.90E 33
ATH XII 08 20 09 06.8 37.34N 20.90E 5 3.8L
THE XII 08 20 09 08.0 37.4N 20.7E 15 3.6L
EIDC Error ellipse is semi-major=89.2km semi-minor=30.2km azimuth=170
NEIC Less reliable solution.
ISC XII 08 21 07 34±3.6 **37.4N**±.18 **20.9E**±.26 **5** **5 1-2**
ATH XII 08 21 07 34.4 37.33N 20.82E 5 2.9D **¶97xii2016**
ATH XII 08 21 17 55.2 37.35N 20.58E 5 ¶97xii2019
ISC XII 08 21 33 12±2.2 **37.5N**±.12 **20.8E**±.21 **5** **14 1-4**
ATH XII 08 21 33 12.6 37.42N 20.79E 5 3.7D **¶97xii2021**
ATH XII 08 23 41 47.7 37.18N 20.75E 5 2.8D ¶97xii2041
ISC XII 09 00 43 22±4.9 **37.3N**±.24 **20.8E**±.32 **5** **4 1-2**
ATH XII 09 00 43 23.4 37.31N 20.76E 5 **¶97xii2058**
ISC Poorly determined
ATH XII 09 01 05 38.8 37.26N 20.63E 5 3.0D ¶97xii2063
ATH XII 09 01 44 15.9 37.35N 20.43E 5 2.9D ¶97xii2070
ISC XII 09 04 49 48±4.5 **37.3N**±.21 **20.9E**±.28 **3** **4 1-2**
ATH XII 09 04 49 47.7 37.20N 20.80E 3 2.9D **¶97xii2104**
ISC Poorly determined
ISC XII 09 09 14 48±1.6 **37.44N**±.071 **20.73E**±.057 **9**±11 **32 1-5**
ATH XII 09 09 14 51.9 37.56N 20.76E 5 3.6L **¶97xii2138**
THE XII 09 09 14 54.0 37.7N 21.1E 15 3.3L
ISC XII 09 10 18 43±4.8 **37.2N**±.26 **20.8E**±.41 **5** **9 1-5**
ATH XII 09 10 18 44.0 37.22N 20.88E 5 3.2D **¶97xii2153**
ISC XII 09 11 01 48±5.7 **37.4N**±.27 **20.7E**±.53 **5** **6 1-2**
ATH XII 09 11 01 48.7 37.34N 20.72E 5 3.3D **¶97xii2157**
ISC XII 09 11 30 27±5.8 **37.2N**±.21 **20.2E**±.44 **5** **4 1-2**
ATH XII 09 11 30 28.1 37.14N 20.14E 5 3.0D **¶97xii2160**
ISC Poorly determined
ATH XII 09 13 34 04.2 37.22N 20.93E 5 2.8D ¶97xii2177
ATH XII 09 16 09 42.3 37.18N 20.75E 5 3.0D ¶97xii2199
ISC XII 09 20 28 57±2.8 **37.5N**±.14 **20.8E**±.27 **5** **5 1-2**
ATH XII 09 20 28 56.1 37.37N 20.69E 5 **¶97xii2232**
ISC XII 09 20 59 47±1.2 **37.4N**±.11 **20.66E**±.075 **10** **28 2-6**
ROM XII 09 20 59 15.7 36.2N 23.5E 10 3.8D **¶97xii2237**
THE XII 09 20 59 50.5 37.6N 20.8E 8 3.2L
ATH XII 09 20 59 52.9 37.30N 21.14E 5 3.4L
ISC XII 09 22 49 15.1±.71 **37.21N**±.062 **20.80E**±.048 **5** **33 1-5**
NEIC XII 09 22 49 16.4 37.12N 20.88E 33 **¶97xii2251**
ATH XII 09 22 49 17.3 37.23N 20.86E 5 3.6L
THE XII 09 22 49 20.4 37.4N 21.1E 10 3.2L
NEIC Less reliable solution.
ISC XII 09 23 43 19±2.0 **37.6N**±.11 **20.8E**±.17 **5** **16 1-4**
ATH XII 09 23 43 19.2 37.44N 20.71E 5 3.5L **¶97xii2259**
ISC XII 10 00 03 56±2.2 **37.49N**±.098 **20.7E**±.11 **9**±14 **24 1-5**
ATH XII 10 00 03 55.1 37.37N 20.57E 5 3.6L **¶97xii2264**
THE XII 10 00 03 55.5 37.4N 20.7E 5 3.3L
ISC XII 10 00 36 25±3.1 **37.5N**±.15 **20.4E**±.27 **5** **10 1-5**
ATH XII 10 00 36 25.0 37.50N 20.21E 5 **¶97xii2269**
ISC XII 10 09 10 29±2.2 **37.5N**±.11 **20.8E**±.19 **5** **15 1-5**
ATH XII 10 09 10 35.6 37.59N 21.37E 5 3.3D **¶97xii2324**
ISC XII 10 15 58 00±1.9 **37.5N**±.10 **20.9E**±.15 **10** **19 1-4**
THE XII 10 15 57 59.3 37.3N 20.9E 10 3.2L **¶97xii2385**
ATH XII 10 15 58 00.9 37.55N 20.86E 5 3.7L
ATH XII 10 18 01 28.1 37.28N 20.44E 5 3.0D ¶97xii2399
ATH XII 10 18 02 48.4 37.39N 20.81E 10 ¶97xii2400
ATH XII 10 18 19 13.6 37.36N 20.41E 5 ¶97xii2402
ATH XII 10 19 27 30.8 37.13N 20.79E 5 ¶97xii2413
ATH XII 10 23 16 56.7 37.19N 20.14E 35 3.1D ¶97xii2443
ISC XII 11 00 47 02±2.5 **37.61N**±.088 **21.0E**±.12 **1**±16 **23 1-4**
THE XII 11 00 46 58.7 37.2N 21.0E 3 3.1L **¶97xii2456**
ATH XII 11 00 47 02.1 37.50N 20.84E 5 3.6L
ATH XII 11 00 57 06.5 37.19N 20.39E 10 ¶97xii2457
ISC XII 11 00 58 53.6±.77 **37.18N**±.068 **20.76E**±.049 **5** **29 1-7**
ATH XII 11 00 58 56.0 37.23N 20.82E 5 3.7L **¶97xii2459**
THE XII 11 00 59 00.3 37.5N 20.9E 10 3.0L
ATH XII 11 01 40 02.2 37.09N 20.59E 5 3.2D ¶97xii2465
ISC XII 11 03 17 06±2.1 **37.4N**±.14 **20.8E**±.15 **5** **6 1-9**
ATH XII 11 03 17 06.1 37.24N 20.65E 5 3.0D **¶97xii2478**
ATH XII 11 04 45 24.0 37.38N 20.70E 5 2.9D ¶97xii2492
ISC XII 11 05 29 38±2.9 **37.5N**±.15 **21.0E**±.23 **10** **4 1-2**
ATH XII 11 05 29 37.8 37.45N 20.87E 10 3.0D **¶97xii2496**
ISC Poorly determined
ISC XII 11 08 45 31±2.7 **37.5N**±.13 **20.8E**±.24 **5** **6 1-2**
ATH XII 11 08 45 30.2 37.38N 20.72E 5 3.1D **¶97xii2522**
ISC XII 11 09 46 46.0±.80 **37.21N**±.069 **20.73E**±.064 **5** **21 1-5**
ATH XII 11 09 46 47.6 37.20N 20.79E 5 3.4D **¶97xii2538**
ATH XII 11 11 12 04.5 37.26N 20.67E 5 3.1D ¶97xii2547
ATH XII 11 11 31 58.8 37.30N 20.53E 5 2.8D ¶97xii2552
ISC XII 11 12 13 07±4.8 **37.5N**±.20 **20.8E**±.29 **8**±24 **7 1-2**
ATH XII 11 12 13 07.4 37.46N 20.88E 5 3.2D **¶97xii2558**
ISC XII 11 12 40 40±2.7 **37.3N**±.16 **20.8E**±.23 **5** **11 1-5**
ATH XII 11 12 40 42.9 37.31N 20.93E 5 3.4D **¶97xii2564**
ISC XII 11 12 43 44±4.7 **37.2N**±.31 **20.7E**±.35 **4**±27 **12 1-5**
ATH XII 11 12 43 47.0 37.25N 20.81E 5 3.2D **¶97xii2566**
ISC XII 11 12 47 14±4.1 **37.3N**±.22 **20.9E**±.32 **5** **4 1-2**
ATH XII 11 12 47 15.2 37.20N 20.73E 5 3.0D **¶97xii2567**
ISC Poorly determined

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**11 13 06 08**±3.9	**37.5N**±.15	**20.8E**±.29	**11**±25		**5**	**1-2**
ATH	XII	11 13 06 11.1	37.55N	20.92E	5	2.9D		¶97xii2570
ISC		Poorly determined						
ISC	**XII**	**11 15 24 33**±3.9	**37.6N**±.16	**20.8E**±.32	**11**±15		**8**	**1-4**
ATH	XII	11 15 24 35.9	37.56N	20.81E	5	3.5D		¶97xii2592
ISC	**XII**	**11 15 38 24**±2.1	**37.5N**±.10	**20.8E**±.15	**3**±12		**27**	**1-5**
ATH	XII	11 15 38 25.0	37.46N	20.74E	5	3.7L		¶97xii2594
THE	XII	11 15 38 27.0	37.5N	20.9E	13	3.4L		
ATH	**XII**	**11 17 02 09.6**	**37.21N**	**20.29E**	**5**	**2.9D**		¶97xii2605
ISC	**XII**	**11 17 47 08**±4.6	**37.4N**±.20	**20.7E**±.30	**4**		**4**	**1-2**
ATH	XII	11 17 47 07.5	37.33N	20.61E	4	2.8D		¶97xii2612
ISC		Poorly determined						
ISC	**XII**	**11 17 53 35**±3.9	**37.4N**±.16	**21.0E**±.28	**12**±25		**5**	**1-2**
ATH	XII	11 17 53 36.5	37.38N	20.92E	5	3.0D		¶97xii2613
ISC		Poorly determined						
ATH	**XII**	**11 19 45 29.1**	**37.16N**	**20.61E**	**5**	**2.9D**		¶97xii2631
ISC	**XII**	**11 20 09 44**±4.7	**37.3N**±.22	**20.7E**±.33	**5**		**4**	**1-2**
ATH	XII	11 20 09 41.7	37.16N	20.44E	5	2.8D		¶97xii2634
ISC		Poorly determined						
ATH	**XII**	**11 20 43 49.0**	**37.27N**	**20.43E**	**5**	**3.2D**		¶97xii2637
ISC	**XII**	**11 23 58 31**±4.7	**37.3N**±.24	**20.7E**±.48	**10**		**8**	**2-5**
ATH	XII	11 23 58 33.5	37.30N	20.95E	10			¶97xii2661
ISC	**XII**	**12 06 17 14**±1.2	**37.33N**±.054	**20.80E**±.053	**18**±10	**3.6b**	**50**	**1-55**
NEIC	XII	12 06 17 16.0	37.41N	20.89E	33	3.3b		¶97xii2704
THE	XII	12 06 17 16.9	37.3N	20.8E	10	3.5L		
ATH	XII	12 06 17 17.6	37.42N	21.03E	9	3.7L		
EIDC	XII	12 06 17 19.0±6.81	37.5N	21.2E	49±74.4	3.6b,4.1L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=81.4km semi−minor=23.9km azimuth=87						
ATH	**XII**	**12 08 00 42.3**	**37.19N**	**20.70E**	**5**			¶97xii2713
ATH	**XII**	**12 10 06 46.7**	**37.40N**	**20.66E**	**8**	**2.9D**		¶97xii2728
ATH	**XII**	**12 13 54 19.3**	**37.22N**	**20.37E**	**5**	**3.1D**		¶97xii2758
ISC	**XII**	**12 14 51 48**±4.7	**37.2N**±.24	**20.9E**±.36	**5**		**4**	**1-2**
ATH	XII	12 14 51 48.7	37.13N	20.73E	5	3.2D		¶97xii2764
ISC		Poorly determined						
ISC	**XII**	**12 17 31 05**±4.0	**37.3N**±.21	**20.9E**±.32	**5**		**4**	**1-2**
ATH	XII	12 17 31 05.8	37.21N	20.71E	5	2.8D		¶97xii2795
ISC		Poorly determined						
ISC	**XII**	**12 18 28 14**±2.9	**37.3N**±.14	**20.9E**±.25	**5**		**6**	**1-2**
ATH	XII	12 18 28 12.8	37.15N	20.77E	5	3.2D		¶97xii2800
ATH	**XII**	**12 19 27 42.9**	**37.12N**	**20.88E**	**5**	**2.9D**		¶97xii2807
ISC	**XII**	**12 20 04 51**±1.0	**37.23N**±.076	**20.75E**±.075	**5**		**19**	**1-7**
ATH	XII	12 20 04 53.3	37.24N	20.85E	5	3.6D		¶97xii2811
ATH	**XII**	**12 20 31 12.9**	**37.31N**	**20.44E**	**5**	**2.9D**		¶97xii2817
ISC	**XII**	**12 21 38 30**±2.6	**37.64N**±.091	**20.9E**±.14	**11**±15	**3.7b**	**22**	**1-74**
THE	XII	12 21 38 28.5	37.4N	20.9E	10	3.2L		¶97xii2821
ATH	XII	12 21 38 30.0	37.49N	20.81E	6	3.6D		
ATH	**XII**	**12 22 21 36.4**	**37.37N**	**20.85E**	**5**	**2.7D**		¶97xii2832
ISC	**XII**	**13 01 40 14**±2.9	**37.5N**±.12	**20.6E**±.25	**5**		**7**	**1-2**
ATH	XII	13 01 40 14.0	37.39N	20.62E	5	3.2D		¶97xii2855
ISC	**XII**	**13 02 53 05**±2.4	**37.6N**±.19	**20.0E**±.14	**29**±31		**7**	**1-8**
ATH	XII	13 02 53 04.6	37.59N	19.89E	17	3.0D		¶97xii2864
ATH	**XII**	**13 04 08 20.4**	**37.25N**	**20.50E**	**5**	**2.9D**		¶97xii2878
ISC	**XII**	**13 04 16 31**±1.0	**37.36N**±.055	**20.78E**±.058	**22**±11	**3.9b**	**48**	**1-135**
THE	XII	13 04 16 31.3	37.3N	21.0E	10	3.6L		¶97xii2884
NEIC	XII	13 04 16 32.1	37.38N	20.61E	33	3.9b		
ATH	XII	13 04 16 32.8	37.39N	20.83E	5	3.6L		
EIDC	XII	13 04 16 36.9±4.72	37.4N	20.5E	62±49.5	3.8b,4.0L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=57.7km semi−minor=22.7km azimuth=88						
ATH	**XII**	**13 04 28 14.3**	**37.21N**	**20.61E**	**5**	**2.8D**		¶97xii2885
ISC	**XII**	**13 05 59 29**±2.0	**37.8N**±.13	**20.8E**±.19	**5**		**8**	**0-4**
ATH	XII	13 05 59 28.8	37.76N	20.73E	5	3.4D		¶97xii2899
ATH	**XII**	**13 09 16 59.1**	**37.24N**	**20.51E**	**10**			¶97xii2923
ISC	**XII**	**13 10 42 24**±2.9	**37.4N**±.14	**20.7E**±.15	**10**±12	3.1b	**22**	**1-24**
ATH	XII	13 10 42 27.9	37.48N	20.86E	5	3.6L		¶97xii2935
ATH	**XII**	**13 12 22 35.2**	**37.12N**	**20.39E**	**10**	**3.0D**		¶97xii2943
ISC	**XII**	**13 15 46 45**±2.4	**37.8N**±.11	**20.7E**±.22	**5**		**7**	**0-2**
ATH	XII	13 15 46 47.1	37.78N	20.75E	5	3.3D		¶97xii2970
ISC	**XII**	**13 16 18 14**±2.9	**37.4N**±.15	**20.8E**±.24	**5**		**9**	**1-3**
ATH	XII	13 16 18 16.2	37.47N	20.79E	5	3.2D		¶97xii2976
ISC	**XII**	**13 20 41 59.1**±.43	**37.50N**±.032	**20.74E**±.026	**52**±4.1	**4.4b**	**189**	**1-122**
EIDC	XII	13 20 41 54.4±.54	37.5N	20.9E	0	4.3b,4.1L		¶97xii3017
BJI	XII	13 20 41 57.5	37.72N	20.84E	37	4.8b		
PDG	XII	13 20 41 58.0	37.4N	19.6E	10	4.2L		
ATH	XII	13 20 41 58.8	37.44N	20.83E	3	4.0L		
NEIC	XII	13 20 41 59.3	37.53N	20.66E	47	4.4b		
THE	XII	13 20 41 59.6	37.3N	20.7E	77	4.3L		
EIDC		Error ellipse is semi−major=15.0km semi−minor=12.5km azimuth=111						
ISC	**XII**	**13 21 24 57**±3.3	**37.3N**±.16	**20.9E**±.26	**5**		**6**	**1-2**
ATH	XII	13 21 24 59.9	37.35N	20.91E	5	2.9D		¶97xii3024
ISC	**XII**	**13 22 55 43**±3.4	**37.5N**±.16	**20.8E**±.26	**5**		**5**	**1-2**
ATH	XII	13 22 55 42.4	37.46N	20.68E	5	2.9D		¶97xii3035
ISC	**XII**	**14 00 17 47**±4.6	**37.4N**±.17	**20.8E**±.33	**13**±24		**5**	**1-2**
ATH	XII	14 00 17 48.2	37.43N	20.73E	5	2.9D		¶97xii3041
ISC		Poorly determined						
ISC	**XII**	**14 01 19 47**±3.4	**37.3N**±.18	**20.8E**±.27	**5**		**15**	**1-4**
ATH	XII	14 01 19 50.3	37.38N	20.84E	5	3.4D		¶97xii3055
THE	XII	14 01 19 54.3	37.5N	21.1E	20			
ISC	**XII**	**14 01 36 36**±7.7	**37.4N**±.37	**20.6E**±.73	**5**		**5**	**1-2**
ATH	XII	14 01 36 37.1	37.35N	20.60E	5	3.3D		¶97xii3058
ISC	**XII**	**14 01 47 57**±4.3	**37.5N**±.19	**20.6E**±.35	**5**		**5**	**1-2**
ATH	XII	14 01 47 58.2	37.49N	20.61E	5	3.1D		¶97xii3059
ISC	**XII**	**14 01 51 47**±7.5	**37.3N**±.42	**20.8E**±.63	**5**		**5**	**1-2**
ATH	XII	14 01 51 49.3	37.32N	20.80E	5	3.2D		¶97xii3060
ISC	**XII**	**14 04 12 12**±1.7	**37.32N**±.077	**20.6E**±.12	**21**±12	**3.7b**	**34**	**1-32**
ATH	XII	14 04 12 13.4	37.40N	20.63E	5	3.7L		¶97xii3085
EIDC	XII	14 04 12 17.1±6.34	37.2N	16.4E	36±61.3	3.6b,3.6L		
EIDC		Error ellipse is semi−major=51.3km semi−minor=23.6km azimuth=82						
ATH	**XII**	**14 06 15 24.4**	**37.64N**	**20.98E**	**10**	**2.8D**		¶97xii3097
THE	XII	14 06 16 19.7	37.3N	21.2E	10	3.4L		
ATH	**XII**	**14 06 54 30.6**	**37.25N**	**20.43E**	**5**	**3.0D**		¶97xii3105
ISC	**XII**	**14 07 50 47**±3.8	**37.5N**±.17	**20.7E**±.32	**5**		**5**	**1-2**
ATH	XII	14 07 50 48.4	37.49N	20.57E	5	3.2D		¶97xii3114
ATH	**XII**	**14 09 20 25.7**	**37.28N**	**20.43E**	**10**	**3.0D**		¶97xii3125
ATH	**XII**	**14 13 48 58.8**	**37.09N**	**20.80E**	**5**	**3.0D**		¶97xii3157
ATH	**XII**	**14 14 31 33.9**	**37.11N**	**20.41E**	**5**	**3.1D**		¶97xii3159
ATH	**XII**	**14 14 38 16.5**	**37.27N**	**20.41E**	**10**	**3.2D**		¶97xii3162
ISC	**XII**	**14 15 27 44**±3.0	**37.4N**±.17	**20.9E**±.26	**5**		**5**	**1-2**
ATH	XII	14 15 27 44.9	37.31N	20.79E	5	3.1D		¶97xii3164
ISC	**XII**	**15 00 11 15**±8.5	**37.0N**±.44	**20.5E**±.56	**5**±16		**8**	**1-5**
ATH	XII	15 00 11 24.0	37.56N	21.19E	5	3.2D		¶97xii3212
ISC	**XII**	**15 01 37 27**±1.8	**37.34N**±.076	**20.5E**±.12	**28**±13	**3.7b**	**28**	**1-32**
NEIC	XII	15 01 37 27.6	37.41N	20.34E	33	3.5b		¶97xii3223
EIDC	XII	15 01 37 28.1±1.55	37.5N	21.2E	25±6.3	3.7b		
ATH	XII	15 01 37 30.2	37.56N	20.88E	5	3.5D		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=54.5km semi−minor=21.7km azimuth=89						
ISC	**XII**	**15 01 41 29**±2.3	**37.3N**±.13	**20.7E**±.16	**28**±12	**3.6b**	**22**	**1-60**
EIDC	XII	15 01 41 25.4±4.73	37.2N	20.8E	0	3.7b		¶97xii3225
NEIC	XII	15 01 41 28.8	37.23N	20.95E	33			
THE	XII	15 01 41 35.4	37.7N	21.0E	10	3.2L		
ATH	XII	15 01 41 36.4	37.67N	21.29E	5	3.4D		
EIDC		Error ellipse is semi−major=82.9km semi−minor=45.4km azimuth=12						
NEIC		Poor solution.						
ISC	**XII**	**15 02 08 42**±2.2	**37.6N**±.12	**20.8E**±.22	**5**		**14**	**1-4**
ATH	XII	15 02 08 43.1	37.60N	20.90E	5	3.5D		¶97xii3229
ATH	**XII**	**15 03 49 26.8**	**37.52N**	**20.69E**	**10**	**3.4D**		¶97xii3239
ISC	**XII**	**15 05 45 42**±6.0	**37.5N**±.42	**20.8E**±.74	**5**		**5**	**1-4**
ATH	XII	15 05 45 40.0	37.31N	20.47E	5	3.3D		¶97xii3248
ATH	**XII**	**15 05 52 10.7**	**37.68N**	**20.63E**	**5**	**3.2D**		¶97xii3250
ATH	**XII**	**15 06 41 45.4**	**37.35N**	**20.72E**	**5**	**3.0D**		¶97xii3252
ISC	**XII**	**15 17 45 11**±4.8	**37.3N**±.25	**20.7E**±.38	**5**		**5**	**1-2**
ATH	XII	15 17 45 13.5	37.39N	20.74E	5	3.2D		¶97xii3317
NEIC	**XII**	**15 20 41 56.7**	**37.24N**	**20.69E**	**100**			**2-6**
								¶97xii3340
ISC	**XII**	**15 21 01 35**±4.4	**37.5N**±.37	**20.8E**±.48	**11**±32		**7**	**1-4**
ATH	XII	15 21 01 38.2	37.69N	21.03E	5	3.4D		¶97xii3342
ISC	**XII**	**15 22 33 45**±5.0	**37.4N**±.22	**20.5E**±.42	**5**		**6**	**1-3**
ATH	XII	15 22 33 46.7	37.35N	20.54E	5	3.7L		¶97xii3351
ATH	**XII**	**16 01 05 30.7**	**37.66N**	**20.81E**	**5**	**3.0D**		¶97xii3366
ISC	**XII**	**16 02 07 28**±3.9	**37.4N**±.23	**20.8E**±.34	**5**		**9**	**1-4**
ATH	XII	16 02 07 31.2	37.59N	21.09E	5	3.3L		¶97xii3368
ISC	**XII**	**16 02 09 24**±1.5	**37.39N**±.068	**20.76E**±.098	**22**±10	3.4b	**31**	**1-32**
EIDC	XII	16 02 09 21.8±1.67	37.6N	21.4E	0	3.5b		¶97xii3369
NEIC	XII	16 02 09 25.5	37.45N	20.74E	33			
ATH	XII	16 02 09 25.9	37.44N	20.99E	5	3.6L		
THE	XII	16 02 09 30.6	37.7N	21.2E	10	3.3L		
EIDC		Error ellipse is semi−major=116.0km semi−minor=22.6km azimuth=88						
NEIC		Poor solution.						
ATH	**XII**	**16 03 48 25.7**	**37.59N**	**20.86E**	**5**	**3.2D**		¶97xii3379
ATH	**XII**	**16 03 54 34.2**	**37.34N**	**20.54E**	**5**	**3.1D**		¶97xii3380
ATH	**XII**	**16 04 44 08.9**	**37.24N**	**20.61E**	**5**	**3.0D**		¶97xii3384
ISC	**XII**	**16 05 04 29**±1.6	**37.06N**±.097	**21.00E**±.082	**20**±8.9	**3.7b**	**35**	**1-33**
EIDC	XII	16 05 04 22.2±1.53	36.7N	21.7E	0	3.8b,3.6L		¶97xii3388
NEIC	XII	16 05 04 25.5	36.71N	21.31E	33			
ATH	XII	16 05 04 30.9	37.16N	21.18E	5	3.6L		
THE	XII	16 05 04 32.0	37.2N	21.2E	10	3.5L		
EIDC		Error ellipse is semi−major=75.2km semi−minor=22.0km azimuth=87						
NEIC		Poor solution.						
ATH	**XII**	**16 06 20 25.7**	**37.38N**	**20.61E**	**7**			¶97xii3397
ISC	**XII**	**16 09 00 42**±4.8	**37.3N**±.26	**20.8E**±.38	**5**		**5**	**1-2**
ATH	XII	16 09 00 44.5	37.40N	20.73E	5	3.2D		¶97xii3419
ATH	**XII**	**16 10 24 05.6**	**37.57N**	**20.99E**	**10**	**2.6D**		¶97xii3436
ISC	**XII**	**16 13 23 46**±1.5	**37.05N**±.086	**20.7E**±.14	**10**		**28**	**1-52**
THE	XII	16 13 23 52.7	37.2N	21.2E	10	3.4L		¶97xii3456
ATH	XII	16 13 23 52.7	37.36N	20.94E	5	3.7L		
ATH	**XII**	**16 16 43 47.8**	**37.31N**	**20.80E**	**5**	**2.7D**		¶97xii3479
ATH	**XII**	**16 19 45 04.6**	**37.25N**	**20.84E**	**5**			¶97xii3493
ATH	**XII**	**16 21 54 05.6**	**37.49N**	**20.71E**	**10**			¶97xii3514
ISC	**XII**	**16 22 10 57**±3.1	**37.6N**±.11	**20.9E**±.16	**5**±18		**17**	**1-4**
THE	XII	16 22 10 54.5	37.2N	20.7E	20	3.1L		¶97xii3515
ATH	XII	16 22 10 55.5	37.38N	20.56E	5	3.6L		
ATH	**XII**	**17 08 07 44.6**	**37.42N**	**20.70E**	**10**			¶97xii3575
ATH	**XII**	**17 12 16 42.8**	**37.54N**	**20.66E**	**10**			¶97xii3601
ISC	**XII**	**17 13 49 53**±5.4	**37.2N**±.28	**20.7E**±.42	**5**		**7**	**1-3**
ATH	XII	17 13 49 55.4	37.25N	20.76E	5	3.3D		¶97xii3609
ISC	**XII**	**17 14 18 19**±3.4	**37.4N**±.19	**20.8E**±.30	**5**		**5**	**1-2**
ATH	XII	17 14 18 21.8	37.44N	20.89E	5	3.5D		¶97xii3613
ISC	**XII**	**17 18 42 27**±4.8	**37.3N**±.23	**20.7E**±.38	**5**		**6**	**1-2**
ATH	XII	17 18 42 30.3	37.44N	20.85E	5	3.4D		¶97xii3645
ISC	**XII**	**17 22 40 08**±2.4	**37.5N**±.13	**20.9E**±.20	**5**		**8**	**1-3**
ATH	XII	17 22 40 09.0	37.38N	20.77E	5	3.6L		¶97xii3673
ISC	**XII**	**18 02 29 00**±5.6	**37.2N**±.31	**20.8E**±.46	**5**		**7**	**1-4**
ATH	XII	18 02 29 04.8	37.42N	21.18E	5	3.4L		¶97xii3697
ISC	**XII**	**18 05 38 59**±1.4	**37.09N**±.064	**20.96E**±.046	**29**±10	**3.9b**	**63**	**1-80**
EIDC	XII	18 05 38 57.9±.83	37.3N	21.1E	0	4.0b,3.6L		¶97xii3715
NEIC	XII	18 05 39 00.7	37.23N	20.95E	33	3.7b		
ATH	XII	18 05 39 01.8	37.26N	20.94E	5	3.9L		
THE	XII	18 05 39 04.7	37.4N	21.1E	10	3.6L		
EIDC		Error ellipse is semi−major=22.2km semi−minor=16.3km azimuth=92						
ATH	**XII**	**18 05 46 20.7**	**37.21N**	**19.47E**	**10**			¶97xii3716
ISC	**XII**	**18 08 03 17**±6.0	**37.2N**±.33	**20.8E**±.44	**5**		**4**	**1-2**
ATH	XII	18 08 03 18.0	37.18N	20.71E	5	2.9D		¶97xii3736
ISC		Poorly determined						
ATH	**XII**	**18 13 24 07.4**	**37.19N**	**20.81E**	**5**			¶97xii3768
ISC	**XII**	**18 15 57 34**±5.7	**37.3N**±.29	**20.7E**±.45	**5**		**4**	**1-2**
ATH	XII	18 15 57 36.0	37.33N	20.71E	5	3.1D		¶97xii3791
ISC		Poorly determined						
ATH	**XII**	**18 17 42 05.1**	**37.16N**	**20.98E**	**7**			¶97xii3797
ATH	**XII**	**18 20 25 56.2**	**37.28N**	**20.69E**	**25**			¶97xii3818
ATH	**XII**	**18 21 58 03.3**	**37.47N**	**20.63E**	**8**			¶97xii3839
ISC	**XII**	**19 02 32 00.8**±.78	**37.29N**±.064	**20.92E**±.062	**48**±8.3	**3.6b**	**38**	**1-32**
ATH	XII	19 02 31 59.4	37.26N	20.97E	5	3.5L		¶97xii3877
NEIC	XII	19 02 32 00.0	37.30N	20.47E	33	4.1b		
EIDC	XII	19 02 32 06.0±4.70	37.4N	20.4E	76±49.4	3.4b,3.8L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=57.9km semi−minor=22.1km azimuth=88						
ATH	**XII**	**19 07 00 32.0**	**37.35N**	**20.59E**	**6**			¶97xii3910
ISC	**XII**	**19 08 57 40**±3.5	**37.4N**±.18	**20.6E**±.31	**5**		**14**	**1-4**
ATH	XII	19 08 57 40.7	37.32N	20.61E	5	3.5D		¶97xii3920
ATH	**XII**	**19 10 08 38.9**	**37.25N**	**20.51E**	**5**	**2.9D**		¶97xii3932
ATH	**XII**	**19 11 02 04.4**	**37.26N**	**20.59E**	**5**	**2.8D**		¶97xii3940
ISC	**XII**	**19 11 13 12**±3.4	**37.4N**±.17	**20.8E**±.29	**5**		**5**	**1-2**
ATH	XII	19 11 13 13.8	37.47N	20.79E	5	3.3D		¶97xii3941
ATH	**XII**	**19 11 42 53.2**	**37.25N**	**20.45E**	**5**	**3.0D**		¶97xii3944
ISC	**XII**	**19 12 49 13**±4.0	**37.3N**±.18	**20.7E**±.30	**5**		**6**	**1-2**
ATH	XII	19 12 49 15.1	37.28N	20.69E	5	3.4D		¶97xii3964

ATH	**XII**	**19 15 32 16.8**	**37.24N**	**20.97E**	**7**			¶97xii3988
ATH	**XII**	**19 18 34 55.3**	**37.15N**	**20.40E**	**5**	**3.0D**		¶97xii4016
ATH	**XII**	**19 19 28 49.3**	**37.15N**	**20.52E**	**5**			¶97xii4022
ISC	**XII**	**19 19 30 32**±3.3	**37.4N**±.15	**20.8E**±.26	**5**		**6**	**1-2**
ATH	XII	19 19 30 34.0	37.41N	20.76E	5	3.2D		¶97xii4023
ISC	**XII**	**19 20 03 28**±2.9	**37.6N**±.15	**20.8E**±.23	**5**		**4**	**1-1**
ATH	XII	19 20 03 29.3	37.62N	20.82E	5			¶97xii4026
ISC	Poorly determined							
ATH	**XII**	**19 23 31 53.8**	**37.14N**	**20.35E**	**10**	**3.0D**		¶97xii4048
ATH	**XII**	**20 00 00 15.9**	**37.12N**	**20.42E**	**10**	**2.8D**		¶97xii4052
ISC	**XII**	**20 00 08 13**±4.8	**37.4N**±.23	**20.7E**±.33	**5**		**4**	**1-2**
ATH	XII	20 00 08 14.7	37.38N	20.69E	5	3.2D		¶97xii4054
ISC	Poorly determined							
ISC	**XII**	**20 07 34 15**±3.7	**37.3N**±.19	**20.8E**±.30	**5**		**5**	**1-2**
ATH	XII	20 07 34 17.0	37.33N	20.81E	5	3.0D		¶97xii4095
ISC	**XII**	**20 07 42 05**±3.3	**37.4N**±.15	**20.8E**±.26	**5**		**6**	**1-2**
ATH	XII	20 07 42 06.0	37.39N	20.70E	5	3.1D		¶97xii4098
ISC	**XII**	**20 14 11 06**±3.6	**37.5N**±.16	**20.8E**±.28	**4**±21		**5**	**1-2**
ATH	XII	20 14 11 05.5	37.41N	20.70E	5			¶97xii4131
ISC	Poorly determined							
ISC	**XII**	**20 14 24 56**±4.1	**37.4N**±.19	**20.6E**±.37	**5**		**4**	**1-2**
ATH	XII	20 14 24 56.6	37.28N	20.58E	5	3.0D		¶97xii4132
ISC	Poorly determined							
ATH	**XII**	**20 18 43 22.3**	**37.47N**	**20.48E**	**5**			¶97xii4150
ISC	**XII**	**20 19 12 36**±3.5	**37.1N**±.17	**21.0E**±.25	**5**		**7**	**1-4**
ATH	XII	20 19 12 36.5	37.08N	20.86E	5	3.3D		¶97xii4156
ATH	**XII**	**20 19 33 25.1**	**37.20N**	**20.72E**	**5**			¶97xii4160
ATH	**XII**	**21 00 13 33.2**	**37.29N**	**20.61E**	**5**	**3.2D**		¶97xii4184
ATH	**XII**	**21 01 27 29.7**	**37.54N**	**20.50E**	**5**			¶97xii4191
ISC	**XII**	**21 01 49 28.0**±.88	**37.10N**±.078	**20.66E**±.054	**5**		**22**	**1-5**
ATH	XII	21 01 49 30.5	37.14N	20.72E	5	3.7L		¶97xii4193
ISC	**XII**	**21 03 59 32**±9.7	**37.3N**±.31	**20.1E**±.82	**21**		**4**	**1-2**
ATH	XII	21 03 59 35.5	37.39N	20.38E	21	3.1D		¶97xii4208
ISC	Poorly determined							
ISC	**XII**	**21 16 51 01**±3.5	**37.5N**±.16	**20.7E**±.32	**5**		**5**	**1-2**
ATH	XII	21 16 51 01.0	37.37N	20.63E	5	3.0D		¶97xii4278
ISC	**XII**	**21 17 10 51**±12	**37.2N**±.55	**20.4E**±.88	**10**		**4**	**1-2**
ATH	XII	21 17 10 51.8	37.22N	20.43E	10	3.1D		¶97xii4282
ISC	Poorly determined							
ISC	**XII**	**21 21 49 07**±2.1	**37.7N**±.12	**20.8E**±.17	**13**		**9**	**1-3**
ATH	XII	21 21 49 05.8	37.58N	20.66E	13	3.0D		¶97xii4310
ISC	**XII**	**22 02 39 58**±2.1	**37.9N**±.12	**20.8E**±.23	**5**		**5**	**0-2**
ATH	XII	22 02 39 57.3	37.77N	20.60E	5			¶97xii4337
ISC	**XII**	**22 03 52 57**±7.0	**37.6N**±.28	**20.5E**±.72	**10**		**4**	**1-2**
ATH	XII	22 03 52 56.8	37.55N	20.44E	10	3.4D		¶97xii4349
ISC	Poorly determined							
ATH	**XII**	**22 05 33 06.5**	**37.29N**	**20.50E**	**5**	**2.8D**		¶97xii4359
ATH	**XII**	**22 05 42 55.2**	**37.35N**	**20.48E**	**5**	**3.0D**		¶97xii4361
ATH	**XII**	**22 05 58 54.9**	**37.37N**	**20.48E**	**5**			¶97xii4364
ISC	**XII**	**22 10 00 10**±3.5	**37.4N**±.18	**20.8E**±.29	**5**		**5**	**1-2**
ATH	XII	22 10 00 11.8	37.34N	20.78E	5	3.5D		¶97xii4397
ATH	**XII**	**22 10 27 55.2**	**37.34N**	**20.59E**	**5**			¶97xii4403
ATH	**XII**	**22 12 33 41.8**	**37.41N**	**20.73E**	**5**	**3.1D**		¶97xii4422
ISC	**XII**	**22 19 15 26**±4.5	**37.4N**±.18	**20.9E**±.31	**4**±27		**5**	**1-2**
ATH	XII	22 19 15 27.9	37.35N	20.87E	5			¶97xii4474
ISC	Poorly determined							
ISC	**XII**	**22 19 48 55**±4.7	**37.4N**±.19	**20.8E**±.33	**5**±26		**5**	**1-2**
ATH	XII	22 19 48 57.4	37.33N	20.83E	5	3.1D		¶97xii4479
ISC	Poorly determined							
ATH	**XII**	**22 21 36 46.8**	**37.24N**	**20.68E**	**5**	**3.3D**		¶97xii4488
ATH	**XII**	**22 22 02 07.6**	**37.25N**	**20.70E**	**5**	**3.3D**		¶97xii4490
ATH	**XII**	**22 22 27 43.5**	**37.35N**	**20.56E**	**5**			¶97xii4496
ATH	**XII**	**22 23 04 04.3**	**37.38N**	**20.42E**	**5**			¶97xii4500
ATH	**XII**	**22 23 28 56.1**	**37.25N**	**20.43E**	**5**			¶97xii4503
ATH	**XII**	**23 01 29 46.4**	**37.26N**	**20.60E**	**5**			¶97xii4512
ISC	**XII**	**23 01 36 50**±3.9	**37.6N**±.15	**20.8E**±.29	**12**±25		**5**	**1-2**
ATH	XII	23 01 36 51.3	37.56N	20.81E	5	3.2D		¶97xii4514
ISC	Poorly determined							
ATH	**XII**	**23 01 55 02.6**	**37.17N**	**20.61E**	**5**			¶97xii4518
ATH	**XII**	**23 02 18 19.6**	**37.34N**	**20.56E**	**5**			¶97xii4521
ISC	**XII**	**23 02 50 11**±7.9	**37.4N**±.40	**20.5E**±.74	**5**		**4**	**1-2**
ATH	XII	23 02 50 11.4	37.32N	20.56E	5	3.3D		¶97xii4525
ISC	Poorly determined							
ATH	**XII**	**23 03 22 21.4**	**37.32N**	**20.55E**	**5**			¶97xii4531
ATH	**XII**	**23 03 35 57.3**	**37.23N**	**20.37E**	**5**			¶97xii4534
ATH	**XII**	**23 05 47 10.4**	**37.13N**	**20.60E**	**5**	**2.7D**		¶97xii4547
ATH	**XII**	**23 06 13 30.0**	**37.32N**	**20.56E**	**5**	**2.7D**		¶97xii4549
ISC	**XII**	**23 07 43 12**±2.5	**37.7N**±.14	**20.9E**±.20	**5**		**4**	**1-1**
ATH	XII	23 07 43 11.6	37.59N	20.77E	5	2.6D		¶97xii4565
ISC	Poorly determined							
ISC	**XII**	**23 08 27 42**±2.3	**37.6N**±.12	**20.9E**±.20	**5**		**6**	**1-2**
ATH	XII	23 08 27 43.6	37.62N	20.90E	5	2.8D		¶97xii4568
ISC	**XII**	**23 09 41 05**±2.5	**37.5N**±.13	**20.8E**±.24	**5**		**6**	**1-4**
ATH	XII	23 09 41 01.9	37.36N	20.53E	5	3.2D		¶97xii4578
ISC	**XII**	**23 15 39 22**±4.0	**37.4N**±.19	**20.7E**±.33	**5**		**5**	**1-2**
ATH	XII	23 15 39 23.8	37.40N	20.64E	5	3.2D		¶97xii4624
ISC	**XII**	**23 22 25 54**±3.2	**37.5N**±.15	**20.7E**±.28	**5**		**7**	**1-4**
ATH	XII	23 22 25 57.0	37.59N	20.75E	5	3.1D		¶97xii4662
ISC	**XII**	**24 04 15 51**±6.7	**37.4N**±.35	**20.5E**±.56	**5**		**9**	**1-4**
ATH	XII	24 04 15 56.6	37.65N	20.91E	5	3.3D		¶97xii4702
ATH	**XII**	**24 04 19 24.6**	**37.48N**	**20.39E**	**10**	**3.0D**		¶97xii4703
ISC	**XII**	**24 15 10 35**±2.2	**37.5N**±.12	**20.7E**±.19	**5**		**23**	**1-5**
ATH	XII	24 15 10 32.5	37.27N	20.41E	5	3.8L		¶97xii4778
ISC	**XII**	**24 15 27 11**±3.4	**37.4N**±.16	**20.8E**±.27	**5**		**5**	**1-2**
ATH	XII	24 15 27 12.9	37.33N	20.76E	5	3.0D		¶97xii4783
ISC	**XII**	**24 16 05 49**±2.1	**37.6N**±.12	**20.9E**±.19	**5**		**6**	**1-2**
ATH	XII	24 16 05 50.1	37.59N	20.85E	5	3.1D		¶97xii4787
ATH	**XII**	**24 20 44 35.5**	**37.31N**	**20.49E**	**5**			¶97xii4820
ATH	**XII**	**24 21 37 06.7**	**37.15N**	**20.58E**	**5**			¶97xii4827
ATH	**XII**	**24 22 11 10.1**	**37.28N**	**20.42E**	**5**			¶97xii4833
ISC	**XII**	**24 22 51 52**±3.7	**37.6N**±.17	**20.7E**±.28	**5**		**4**	**1-2**
ATH	XII	24 22 51 53.3	37.55N	20.67E	5	2.8D		¶97xii4837
ISC	Poorly determined							
ISC	**XII**	**25 00 44 38.8**±.48	**37.28N**±.044	**20.74E**±.048	**6**	**4.0b**	**66**	**1-83**
NEIC	XII	25 00 44 39.8	37.37N	20.77E	10	3.9b		¶97xii4847
EIDC	XII	25 00 44 39.9±.82	37.5N	21.0E	0	3.9b,3.6L		
THE	XII	25 00 44 43.9	37.4N	21.0E	0			
ATH	XII	25 00 44 45.5	37.52N	20.93E	6	3.6L		
EIDC	Error ellipse is semi−major=25.4km semi−minor=14.0km azimuth=93							
ATH	**XII**	**25 02 31 48.8**	**37.06N**	**20.62E**	**10**			¶97xii4856
ATH	**XII**	**25 03 03 20.6**	**37.21N**	**20.33E**	**5**			¶97xii4857
ISC	**XII**	**25 07 00 26**±3.5	**37.4N**±.19	**20.9E**±.30	**5**		**4**	**1-2**
ATH	XII	25 07 00 27.0	37.32N	20.77E	5	3.0D		¶97xii4882
ISC	Poorly determined							
ISC	**XII**	**25 10 25 52**±3.2	**37.5N**±.17	**20.8E**±.29	**5**		**4**	**1-2**
ATH	XII	25 10 25 54.4	37.51N	20.78E	5	2.9D		¶97xii4910
ISC	Poorly determined							
ATH	**XII**	**25 13 58 41.7**	**37.04N**	**20.51E**	**10**			¶97xii4938
ATH	**XII**	**25 14 25 57.8**	**37.37N**	**20.61E**	**5**			¶97xii4946
ISC	**XII**	**25 16 30 36**±3.3	**37.22N**±.075	**20.75E**±.061	**10**±25	**3.8b**	**27**	**1-24**
EIDC	XII	25 16 30 25.2	36.2N	21.2E	0	4.0b,3.5L		¶97xii4957
NEIC	XII	25 16 30 32.6	37.00N	21.07E	10	4.6b		
THE	XII	25 16 30 35.6	36.9N	20.9E	15			
ATH	XII	25 16 30 36.5	37.20N	20.71E	5	3.8D		
EIDC	Origin time error = 11.05Error ellipse is semi−major=175.7km semi−minor=86.7km azimuth=172							
NEIC	Poor solution.							
ISC	**XII**	**25 17 36 07**±2.2	**37.5N**±.11	**20.9E**±.18	**5**		**9**	**1-4**
ATH	XII	25 17 36 06.3	37.35N	20.72E	5	3.4D		¶97xii4964
ATH	**XII**	**25 17 38 58.3**	**37.19N**	**20.81E**	**5**	**3.2D**		¶97xii4966
ISC	**XII**	**25 20 09 35**±13	**37.0N**±.64	**20.0E**±.87	**5**		**4**	**1-3**
ATH	XII	25 20 09 37.5	37.14N	20.04E	5	3.3D		¶97xii4986
ISC	Poorly determined							
ATH	**XII**	**25 21 35 31.1**	**37.20N**	**20.39E**	**5**			¶97xii4990
ATH	**XII**	**25 22 37 54.2**	**37.32N**	**20.45E**	**5**			¶97xii4998
ISC	**XII**	**25 23 01 20**±1.4	**37.4N**±.11	**20.7E**±.13	**5**		**8**	**1-5**
ATH	XII	25 23 01 21.1	37.32N	20.77E	5	3.3D		¶97xii5001
ATH	**XII**	**26 01 23 34.9**	**37.30N**	**20.38E**	**5**			¶97xii5022
ATH	**XII**	**26 01 38 02.4**	**37.37N**	**20.56E**	**5**			¶97xii5024
ATH	**XII**	**26 02 18 05.6**	**37.30N**	**20.69E**	**5**			¶97xii5027
ATH	**XII**	**26 02 23 29.3**	**37.03N**	**20.95E**	**5**			¶97xii5029
ATH	**XII**	**26 07 02 39.4**	**37.54N**	**19.82E**	**10**			¶97xii5072
ISC	**XII**	**26 10 29 54**±4.3	**37.8N**±.18	**20.6E**±.46	**5**		**4**	**0-2**
ATH	XII	26 10 29 55.5	37.73N	20.67E	5	3.0D		¶97xii5104
ISC	Poorly determined							
ATH	**XII**	**26 11 12 18.8**	**37.25N**	**20.37E**	**10**	**3.1D**		¶97xii5110
ATH	**XII**	**26 12 41 26.1**	**37.18N**	**20.59E**	**5**			¶97xii5116
ATH	**XII**	**26 14 49 38.1**	**37.15N**	**20.50E**	**5**			¶97xii5151
ATH	**XII**	**26 16 11 15.6**	**37.92N**	**20.31E**	**10**			¶97xii5171
ATH	**XII**	**26 20 36 23.2**	**37.54N**	**20.84E**	**10**			¶97xii5194
ATH	**XII**	**27 01 10 07.3**	**37.30N**	**20.32E**	**10**			¶97xii5221
ISC	**XII**	**27 02 58 11**±3.1	**37.6N**±.16	**20.8E**±.24	**5**		**4**	**1-2**
ATH	XII	27 02 58 10.4	37.50N	20.67E	5			¶97xii5233
ISC	Poorly determined							
ISC	**XII**	**27 04 31 36**±5.7	**37.2N**±.32	**20.7E**±.38	**5**		**14**	**1-4**
ATH	XII	27 04 31 34.9	37.08N	20.55E	5	3.5D		¶97xii5246
ATH	**XII**	**27 07 23 42.9**	**37.23N**	**20.54E**	**5**	**3.3D**		¶97xii5266
ISC	**XII**	**27 10 36 52**±3.8	**37.3N**±.21	**20.9E**±.30	**5**		**4**	**1-2**
ATH	XII	27 10 36 52.3	37.14N	20.74E	5	3.3D		¶97xii5279
ISC	Poorly determined							
ISC	**XII**	**27 10 58 27**±1.3	**37.38N**±.059	**20.69E**±.066	**20**±11	**3.6b**	**43**	**1-38**
EIDC	XII	27 10 58 23.4±1.46	37.5N	21.6E	0	3.8b		¶97xii5281
NEIC	XII	27 10 58 27.9	37.39N	20.86E	33	3.4b		
THE	XII	27 10 58 28.5	37.4N	20.8E	15	3.5L		
ATH	XII	27 10 58 30.5	37.55N	20.97E	5	3.6L		
EIDC	Error ellipse is semi−major=40.6km semi−minor=17.6km azimuth=97							
NEIC	Less reliable solution.							
ISC	**XII**	**27 13 25 20**±3.3	**37.6N**±.16	**20.8E**±.26	**7**		**4**	**1-2**
ATH	XII	27 13 25 21.1	37.50N	20.73E	7	3.1D		¶97xii5295
ISC	Poorly determined							
ISC	**XII**	**27 13 37 17**±4.9	**37.5N**±.27	**20.8E**±.36	**5**		**4**	**1-2**
ATH	XII	27 13 37 17.5	37.41N	20.74E	5	2.7D		¶97xii5297
ISC	Poorly determined							
ATH	**XII**	**27 15 00 33.5**	**37.29N**	**20.42E**	**2**	**3.0D**		¶97xii5308
ISC	**XII**	**27 16 24 50**±2.5	**37.7N**±.14	**20.9E**±.20	**5**		**4**	**1-1**
ATH	XII	27 16 24 49.4	37.57N	20.74E	5	3.2D		¶97xii5314
ISC	Poorly determined							
ATH	**XII**	**27 17 41 05.9**	**37.21N**	**20.36E**	**10**	**2.8D**		¶97xii5329
ISC	**XII**	**28 00 54 47**±3.8	**37.3N**±.17	**20.8E**±.29	**5**		**5**	**1-2**
ATH	XII	28 00 54 48.5	37.27N	20.78E	5	3.1D		¶97xii5370
ATH	**XII**	**28 10 15 58.5**	**37.33N**	**20.43E**	**5**			¶97xii5438
ISC	**XII**	**28 14 24 14**±12	**37.3N**±.50	**20.4E**±.94	**5**		**4**	**1-2**
ATH	XII	28 14 24 20.9	37.48N	20.75E	5	3.2D		¶97xii5462
ISC	Poorly determined							
ATH	**XII**	**28 14 37 22.3**	**37.33N**	**20.59E**	**5**	**3.3D**		¶97xii5465
ISC	**XII**	**28 15 21 36**±1.0	**37.26N**±.078	**20.60E**±.070	**10**		**20**	**1-5**
THE	XII	28 15 21 38.3	37.3N	20.7E	10	3.4L		¶97xii5470
ATH	XII	28 15 21 39.0	37.40N	20.69E	5	3.5D		
ISC	**XII**	**29 02 49 46**±3.0	**37.4N**±.17	**21.0E**±.29	**5**		**9**	**1-4**
ATH	XII	29 02 49 40.3	37.23N	20.42E	5	3.4D		¶97xii5537
ATH	**XII**	**29 04 28 53.6**	**37.55N**	**19.88E**	**21**	**3.3D**		¶97xii5546
ISC	**XII**	**29 08 28 05**±8.2	**37.8N**±.51	**20.9E**±.23	**3**		**4**	**0-2**
ATH	XII	29 08 27 58.0	37.35N	20.68E	3	3.4D		¶97xii5563
ISC	Poorly determined							
ATH	**XII**	**29 11 20 25.9**	**37.06N**	**19.78E**	**39**	**3.6D**		¶97xii5576
ATH	**XII**	**29 14 49 12.8**	**37.25N**	**20.68E**	**5**	**3.5D**		¶97xii5596
ISC	**XII**	**29 17 25 21**±1.0	**37.62N**±.075	**20.73E**±.073	**5**		**25**	**1-5**
ATH	XII	29 17 25 21.3	37.52N	20.70E	5	3.5L		¶97xii5615
THE	XII	29 17 25 21.9	37.5N	20.8E	6	3.4L		
ATH	**XII**	**29 17 50 20.8**	**37.41N**	**20.17E**	**7**	**3.4D**		¶97xii5617
ATH	**XII**	**29 22 53 53.8**	**37.12N**	**20.49E**	**5**	**3.4D**		¶97xii5649
ISC	**XII**	**30 09 21 38**±6.2	**37.4N**±.22	**20.4E**±.52	**5**		**4**	**1-2**
ATH	XII	30 09 21 37.8	37.31N	20.16E	5	3.1D		¶97xii5713
ISC	Poorly determined							
ATH	**XII**	**30 09 43 24.5**	**37.29N**	**20.88E**	**10**	**3.2D**		¶97xii5715
ATH	**XII**	**30 11 21 23.3**	**37.53N**	**19.73E**	**5**			¶97xii5724
ATH	**XII**	**30 13 31 39.2**	**37.11N**	**20.59E**	**5**	**3.6D**		¶97xii5740
ISC	**XII**	**30 20 13 01.6**±.91	**37.27N**±.074	**20.98E**±.061	**10**	**3.6b**	**26**	**1-32**
EIDC	XII	30 20 12 47.8±1.55	36.1N	21.4E	0	3.7b		¶97xii5784
THE	XII	30 20 13 02.1	37.2N	21.1E	10			
ATH	XII	30 20 13 04.8	37.34N	21.18E	5	3.3L		
ROM	XII	30 20 13 05.3	37.2N	20.8E	10	3.3D		
EIDC	Error ellipse is semi−major=141.6km semi−minor=22.7km azimuth=91							
ISC	**XII**	**31 05 15 21**±3.5	**37.4N**±.16	**20.8E**±.30	**5**		**4**	**1-2**
ATH	XII	31 05 15 20.0	37.31N	20.68E	5	3.1D		¶97xii5839
ISC	Poorly determined							
ATH	**XII**	**31 09 49 40.0**	**37.49N**	**20.36E**	**10**	**3.0D**		¶97xii5873
ISC	**XII**	**31 10 32 02**±3.8	**37.2N**±.25	**20.9E**±.37	**31**		**4**	**1-2**
ATH	XII	31 10 31 59.7	37.05N	20.65E	31	3.1D		¶97xii5877
ISC	Poorly determined							

| Agency | | Origin Time | | |

LIS	**IX**	**21 21 45 18**	**36.52N**	**11.17W**		**2.6L**	**¶97ix3170**
LIS	**IX**	**24 17 23 25.2**	**36.15N**	**10.83W**		**2.4L**	**¶97ix3610**
LIS	**IX**	**24 19 16 10**	**36.60N**	**11.40W**		**2.2L**	**¶97ix3621**
LIS	**IX**	**26 05 54 36.4**	**36.77N**	**12.73W**		**3.1L**	**¶97ix3889**
TRN	**IX**	**26 13 48 08.4**	**12.8N**	**57.8W**	**10**		**¶97ix4026**
LIS	**IX**	**27 01 26 19.4**	**36.23N**	**11.42W**		**2.2L**	**¶97ix4212**
ISC	**IX**	**27 15 47 32**±4.5	**14.15N**±.097	**58.3W**±.38	**13**		**16 3-8**
TRN	IX	27 15 47 31.4	14.2N	58.3W	13	4.2D	**¶97ix4395**
TRN		MD4.1 (after FDF)					
ISC	**IX**	**27 15 55 09**±3.8	**14.12N**±.078	**58.4W**±.33	**25**		**17 2-5**
TRN	IX	27 15 55 07.7	14.1N	58.3W	25	4.5D	**¶97ix4397**
TRN		MD4.2 (after FDF)					
TRN	**IX**	**27 15 57 56.1**	**14.6N**	**58.2W**	**88**		**¶97ix4398**
ISC	**IX**	**27 15 59 23**±3.6	**14.11N**±.083	**58.6W**±.33	**83**		**15 2-5**
TRN	IX	27 15 59 19.8	14.2N	58.3W	83	4.2D	**¶97ix4400**
TRN		MD4.3 (after FDF)					
TRN	**IX**	**27 16 24 12.6**	**13.5N**	**58.8W**	**10**	**3.8D**	**¶97ix4407**
TRN		MD3.8 (after FDF)					
TRN	**IX**	**27 16 43 35.4**	**13.6N**	**58.7W**	**5**		**¶97ix4411**
ISC	**IX**	**27 21 57 34**±6.8	**36.4N**±.59	**10.0W**±.81	**0**		**6 1-2**
LIS	IX	27 21 57 42.9	36.38N	9.63W		1.7L	**¶97ix4465**
TRN	**IX**	**28 14 05 42.0**	**14.2N**	**58.2W**	**42**		**¶97ix4662**
TRN		MD4.0 (after TAG)					
TRN	**IX**	**28 15 21 50.1**	**13.7N**	**58.4W**	**90**		**¶97ix4679**
TRN	**IX**	**29 03 55 33.1**	**13.4N**	**58.7W**	**147**		**¶97ix4861**
TRN	**IX**	**29 04 09 42.7**	**14.2N**	**58.3W**	**35**	**3.9D**	**¶97ix4864**
TRN		MD3.9 (after TAG)					
LIS	**IX**	**29 15 58 20.3**	**35.52N**	**11.65W**		**2.6L**	**¶97ix4976**
ISC	**IX**	**30 21 55 31.3**±.55	**37.5N**±.11	**18.75W**±.043	**10**	3.6b	**41 5-40**
MDD	IX	30 21 55 37.5	37.65N	18.81W		2.7	**¶97ix5318**
ADH	IX	30 21 55 39.7	37.53N	18.76W			
EIDC	IX	30 21 55 39.7	37.6N	18.0W	0	3.8b,4.1L	
LIS	IX	30 21 55 40	37.55N	18.78W			
NEIC	IX	30 21 55 40.3	37.84N	17.95W	10		
LDG	IX	30 21 55 46.3	38.3N	18.3W		4.0L	
NEIC		mbLg3.2(MDD), Poor solution.					
ISC	**X**	**01 23 41 15**±6.7	**36.5N**±.47	**10.0W**±.70	**0**		**6 1-2**
LIS	X	01 23 41 24	36.67N	9.38W		2.2L	**¶97x0177**
LIS	**X**	**02 23 00 24**	**37.13N**	**13.50W**		**2.5L**	**¶97x0353**
ISC	**X**	**07 21 05 54**±1.1	**59.3N**±.37	**30.9W**±.36	**10**	**3.8b**	**5 15-66**
EIDC	X	07 21 05 53.8	59.4N	30.6W	0	3.8b,3.0s	**¶97x1300**
ISC	**X**	**09 18 13 53.3**±.64	**44.17N**±.030	**9.18W**±.076	**10**		**99 1-13**
NEIC	X	09 18 13 53.3	44.17N	9.17W	10		**¶97x1616**
MDD	X	09 18 13 59.7	44.02N	9.10W	24	3.8	
LIS	X	09 18 14 01	43.90N	8.98W		3.3L	
LDG	X	09 18 14 03.3	44.3N	8.6W		4.2L	
STR	X	09 18 14 06.4	44.18N	8.14W	10	4.7L	
NEIC		mbLg4.1(MDD).					
MDD	**X**	**11 15 17 01.1**	**43.08N**	**13.43W**		**3.5**	**¶97x1905**
LDG	X	11 15 17 00.8	43.6N	13.5W		3.9L	
TRN	**X**	**12 15 12 14.1**	**14.7N**	**57.7W**	**15**		**¶97x2063**
TRN		MD3.9 (after DEG)					
TRN	**X**	**12 15 13 49.6**	**14.1N**	**58.0W**	**15**		**¶97x2064**
TRN		MD3.6 (after DEG)					
ISC	**X**	**17 05 17 35**±4.2	**13.18N**±.083	**58.9W**±.38	**96**		**10 2-4**
TRN	X	17 05 17 33.6	13.1N	58.9W	96	3.9D	**¶97x2931**
TRN		MD3.9 (after FDF), MD4.1 (after TAG)					
TRN	**X**	**18 14 44 47.5**	**14.2N**	**58.0W**	**15**		**¶97x3180**
TRN		MD4.1 (after FDF)					
ISC	**X**	**23 20 29 43**±1.5	**45.98N**±.068	**5.6W**±.16	**10**		**31 3-9**
NEIC	X	23 20 29 42.8	45.98N	5.64W	10		**¶97x4058**
LDG	X	23 20 29 47.0	46.0N	5.7W		3.3L	
LIS	**X**	**30 11 47 11**	**36.85N**	**10.93W**		**2.5L**	**¶97x5033**
ISC	**X**	**31 20 05 53**±2.1	**11.52N**±.097	**59.2W**±.20	**17**	**3.9b**	**17 2-79**
TRN	X	31 20 05 56.2	11.6N	59.6W	17	4.0D	**¶97x5224**
EIDC	X	31 20 06 01.2	12.5N	60.3W	0	3.9b	
TRN		MD4.7 (after PAG)					
ISC	**XI**	**09 22 26 51.1**±.22	**56.70N**±.062	**34.19W**±.050	**10**	**4.6b,4.3s**	**98 17-146**
EIDC	XI	09 22 26 50.8	56.7N	34.2W	0	4.3b,4.3s	**¶97xi1520**
NEIC	XI	09 22 26 51.0	56.80N	34.19W	10	4.8b,4.3s	
BJI	XI	09 22 26 52.0	56.80N	34.20W	10	4.9b	
ISC	**XI**	**10 07 24 43.5**±.97	**56.6N**±.23	**34.4W**±.18	**10**	**3.9b**	**11 24-146**
NEIC	XI	10 07 24 43.2	56.63N	34.44W	10	4.1b	**¶97xi1574**
EIDC	XI	10 07 24 43.7	56.6N	34.4W	0	3.9b,3.7s	
NEIC		Less reliable solution.					
MDD	**XI**	**15 23 45 27.4**	**38.0N**	**17.6W**	**24**	**4.1b**	**7-12**
							¶97xi2567
ISC	**XI**	**21 04 31 41.2**±.29	**59.72N**±.052	**29.82W**±.074	**10**	**4.6b,4.6s**	**95 6-142**
NEIC	XI	21 04 31 41.1	59.73N	29.83W	10	4.7b,4.7s	**¶97xi3583**
EIDC	XI	21 04 31 41.8	59.8N	29.9W	0	4.3b,4.2L	
BJI	XI	21 04 31 42.0	59.96N	29.93W	20	4.9b	
ISC	**XI**	**25 14 15 32.9**±.19	**37.55N**±.032	**17.82W**±.021	**10**	**4.8b,5.0s**	**303 5-152**
NEIC	XI	25 14 15 32.8	37.59N	17.90W	10	5.2b,5.0s	**¶97xi4532**
EIDC	XI	25 14 15 32.8	37.7N	17.8W	0	4.5b,5.4L	
MDD	XI	25 14 15 36.3	37.7N	17.8W	36	4.3b	
LIS	XI	25 14 15 39	37.70N	17.80W			
ADH	XI	25 14 15 40.1	37.67N	17.76W			
TRN	**XII**	**05 09 49 04.8**	**9.8N**	**59.9W**	**160**	**3.3D**	**¶97xii0823**
ISC	**XII**	**09 03 16 46**±2.1	**36.97N**±.081	**11.5W**±.19	**27**		**45 2-20**
MDD	XII	09 03 16 51.0	37.0N	11.4W	27	2.9b	**¶97xii2088**
LIS	XII	09 03 16 54	37.02N	11.23W		3.2L	
ISC	**XII**	**26 09 54 33**±1.2	**53.3N**±.50	**35.1W**±.39	**10**	**3.3b**,3.3s	**6 25-149**
EIDC	XII	26 09 54 33.4±1.22	53.2N	35.2W	0	3.2s,3.2b	**¶97xii5098**
EIDC		Error ellipse is semi−major=71.4km semi−minor=24.3km azimuth=20					

(403) North Atlantic Ridge.

ISC	**VII**	**06 04 54 12**±1.2	**47.6N**±.30	**27.6W**±.15	**10**	**3.7b**	**10 19-152**
NEIC	VII	06 04 54 11.3	47.60N	27.63W	10	4.0b	**¶97vii0838**
EIDC	VII	06 04 54 11.9	47.8N	27.6W	0	3.6b,4.6L	
NEIC		Less reliable solution.					
ISC	**VII**	**06 05 30 05.2**±.33	**47.50N**±.081	**27.48W**±.044	**10**	**4.6b,4.2s**	**129 14-152**
EIDC	VII	06 05 30 04.8	47.5N	27.4W	0	4.1b,3.9s	**¶97vii0840**
NEIC	VII	06 05 30 05.0	47.51N	27.51W	10	4.7b,4.2s	
BJI	VII	06 05 30 06.6	47.57N	27.64W	27	4.8b	
ISC	**VII**	**06 10 42 39.3**±.38	**47.61N**±.093	**27.58W**±.045	**10**	**4.5b**	**99 14-152**
NEIC	VII	06 10 42 39.0	47.62N	27.59W	10	4.5b	**¶97vii0872**
BJI	VII	06 10 42 40.5	47.64N	27.57W	26	4.9b	
EIDC	VII	06 10 42 41.1	47.5N	27.5W	14	4.0b,4.8L	
ISC	**VII**	**09 14 47 17.2**±.15	**52.26N**±.033	**31.52W**±.027	**10**	**5.1b,5.0s**	**406 13-159**
EIDC	VII	09 14 47 16.3	52.1N	31.6W	0	4.7b,4.8s	**¶97vii1355**
BJI	VII	09 14 47 16.6	52.25N	31.79W	11	5.4b,5.5s	
NEIC	VII	09 14 47 16.8	52.22N	31.59W	10	5.3b,4.9s	
MOS	VII	09 14 47 17.4	52.2N	31.5W	10	5.6b,4.9s	
HRVD	VII	09 14 47 21.0±.3	52.26N±.03	31.30W±.04	15		
NEIC		Mw5.4(HRV).					
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s39,c68; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.36±.03; $M_{\theta\theta}$−0.05±.03; $M_{\phi\phi}$0.41±.04; $M_{r\theta}$0.00±.00; $M_{r\phi}$0.00±.00; $M_{\theta\phi}$−1.30±.03. Principal Axes: T 1.50,Plg0°,Azm230°; N −0.36, Plg90°,Azm180°; P −1.14,Plg0°,Azm140°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S275°,δ90°,λ−180°. NP2:ϕ_S5°,δ90°,λ0°.					
ISC	**VII**	**11 23 19 05.0**±.84	**16.0N**±.11	**47.0W**±.19	**10**	**3.9b**,3.4s	**10 31-80**
NEIC	VII	11 23 19 04.8	16.02N	47.00W	10	4.3b	**¶97vii1742**
EIDC	VII	11 23 19 05.1	16.0N	47.1W	0	3.9b,3.5s	
NEIC		Less reliable solution.					
ISC	**VII**	**16 06 21 12.3**±.53	**28.6N**±.10	**43.62W**±.092	**10**	**4.1b,4.0s**	**27 34-70**
NEIC	VII	16 06 21 12.0	28.56N	43.63W	10	4.4b,4.0s	**¶97vii2397**
EIDC	VII	16 06 21 12.3	28.5N	43.7W	0	3.8b	
ISC	**VII**	**16 10 36 38.3**±.50	**28.47N**±.094	**43.82W**±.099	**10**	**4.0b**	**25 35-129**
NEIC	VII	16 10 36 38.3	28.47N	43.86W	10	4.2b	**¶97vii2424**
EIDC	VII	16 10 36 38.5	28.5N	43.9W	0	3.9b	
NEIC		Less reliable solution.					
ISC	**VII**	**16 10 43 27.5**±.61	**28.5N**±.12	**43.67W**±.090	**10**	**4.1b,4.3s**	**39 27-70**
NEIC	VII	16 10 43 27.2	28.49N	43.66W	10	4.6b	**¶97vii2425**
EIDC	VII	16 10 43 27.3	28.4N	43.7W	0	3.9b	
NEIC		Less reliable solution.					
ISC	**VII**	**16 10 44 31.0**±.76	**28.4N**±.17	**43.5W**±.10	**10**	**4.1b**	**15 34-70**
NEIC	VII	16 10 44 30.8	28.37N	43.55W	10	4.3b	**¶97vii2426**
EIDC	VII	16 10 44 31.1	28.3N	43.6W	0	3.9b	
NEIC		Less reliable solution.					
ISC	**VII**	**16 10 47 27.8**±.34	**28.66N**±.071	**43.76W**±.046	**10**	**4.5b,4.7s**	**91 26-121**
NEIC	VII	16 10 47 27.5	28.64N	43.76W	10	4.7b,4.7s	**¶97vii2429**
EIDC	VII	16 10 47 27.7	28.7N	43.9W	0	4.2b	
ISC	**VII**	**16 10 53 10.4**±.34	**28.48N**±.070	**43.69W**±.038	**10**	**4.6b,5.1s**	**157 27-175**
BJI	VII	16 10 53 07.9	28.41N	43.94W	16	5.7b,5.4s	**¶97vii2430**
EIDC	VII	16 10 53 09.3	28.1N	43.8W	0	4.2b,4.9s	
NEIC	VII	16 10 53 10.0	28.45N	43.70W	10	4.9b,5.1s	
HRVD	VII	16 10 53 16.9±.4	28.60N±.05	43.50W±.04	15		
NEIC		Mw5.4(HRV).					
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c44; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.57±.05; $M_{\theta\theta}$0.16±.07; $M_{\phi\phi}$1.40±.08; $M_{r\theta}$0.00±.00; $M_{r\phi}$0.00±.00; $M_{\theta\phi}$0.22±.06. Principal Axes: T 1.44,Plg0°,Azm100°; N 0.12, Plg0°,Azm10°; P −1.57,Plg90°,Azm180°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S190°, δ45°,λ−90°. NP2:ϕ_S10°,δ45°,λ−90°.					
ISC	**VII**	**16 21 08 45.8**±.38	**50.57N**±.079	**29.67W**±.052	**10**	**4.6b,3.9s**	**117 14-160**
NEIC	VII	16 21 08 45.4	50.53N	29.68W	10	4.6b,4.1s	**¶97vii2494**
BJI	VII	16 21 08 46.6	51.18N	29.62W	5	4.8b	
EIDC	VII	16 21 08 48.9	50.5N	29.6W	22	4.3b,3.9s	
ISC	**VII**	**18 08 51 14**±1.4	**29.2N**±.22	**43.7W**±.20	**10**	**3.9b**	**7 31-69**
EIDC	VII	18 08 51 13.9	29.1N	43.7W	0	3.6b	**¶97vii2715**
ISC	**VII**	**19 14 19 47**±2.8	**51.3N**±.39	**29.4W**±.57	**10**	**3.7b**	**5 21-150**
EIDC	VII	19 14 19 48.0	51.3N	29.3W	0	3.6b	**¶97vii2886**
ISC		Poorly determined					
ISC	**VII**	**20 17 43 49.2**±.30	**19.05N**±.059	**46.07W**±.049	**10**	**4.5b,4.4s**	**116 32-175**
NEIC	VII	20 17 43 48.9	19.06N	46.09W	10	4.8b,4.5s	**¶97vii3128**
EIDC	VII	20 17 43 52.3	19.0N	46.2W	20	4.1b,4.4s	
ISC	**VII**	**27 15 40 24.9**±.32	**21.30N**±.065	**45.83W**±.041	**10**	**4.7b,4.4s**	**135 31-121**
NEIC	VII	27 15 40 25.0	21.37N	45.84W	10	4.9b,4.4s	**¶97vii4130**
EIDC	VII	27 15 40 28.0	21.3N	45.8W	22	4.2b,4.4s	
HRVD	VII	27 15 40 31.7±.7	21.37N	45.84W	15		
NEIC		Mw5.0(HRV).					
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s9,c11; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.81±.28; $M_{\theta\theta}$0.32±.46; $M_{\phi\phi}$3.49±.52; $M_{r\theta}$−0.68±1.01; $M_{r\phi}$−0.69±1.32; $M_{\theta\phi}$0.03±.42. Principal Axes: T 3.55,Plg5°,Azm90°; N 0.43, Plg9°,Azm181°; P −3.98,Plg80°,Azm329°. Best double couple: $M_0$3.8×10^{16}Nm, NP1: ϕ_S170°,δ40°,λ−104°. NP2:ϕ_S8°,δ51°,λ−79°.					
ISC	**VII**	**28 20 09 08.6**±.44	**34.65N**±.093	**36.73W**±.081	**10**	**4.2b,4.2s**	**45 26-67**
NEIC	VII	28 20 09 08.0	34.68N	36.66W	10	4.5b,4.2s	**¶97vii4323**
EIDC	VII	28 20 09 11.3	34.6N	36.6W	20	3.9b	
ISC	**VII**	**28 23 29 19.7**±.32	**34.57N**±.065	**36.72W**±.052	**10**	**4.6b,4.7s**	**101 26-166**
BJI	VII	28 23 29 15.1	33.77N	36.80W	10	5.3b,5.2s	**¶97vii4342**
NEIC	VII	28 23 29 19.4	34.57N	36.73W	10	4.8b,4.7s	
EIDC	VII	28 23 29 19.7	34.5N	36.7W	0	4.3b,4.5s	
HRVD	VII	28 23 29 22.9±.5	34.57N	36.73W	15		
NEIC		Mw5.1(HRV).					
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c23; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.07±.25; $M_{\theta\theta}$1.15±.48; $M_{\phi\phi}$2.92±.36; $M_{r\theta}$−0.64±.95; $M_{r\phi}$0.63±.68; $M_{\theta\phi}$2.08±.25. Principal Axes: T 4.30,Plg1°,Azm304°; N −0.03, Plg12°,Azm213°; P −4.27,Plg78°,Azm39°. Best double couple: $M_0$4.3×10^{16}Nm, NP1:ϕ_S46°, δ45°,λ−73°. NP2:ϕ_S202°,δ47°,λ−107°.					
ISC	**VII**	**28 23 40 13.8**±.49	**34.46N**±.092	**36.62W**±.096	**10**	**4.1b**	**25 26-107**
NEIC	VII	28 23 40 13.7	34.50N	36.62W	10	4.4b	**¶97vii4345**
EIDC	VII	28 23 40 13.8	34.4N	36.8W	0	4.0b	
NEIC		Less reliable solution.					
ISC	**VII**	**29 03 15 26.3**±.57	**34.6N**±.12	**36.53W**±.097	**10**	**4.1b,3.3s**	**21 26-83**
NEIC	VII	29 03 15 26.1	34.59N	36.54W	10	4.4b	**¶97vii4372**
EIDC	VII	29 03 15 29.1	34.6N	36.6W	17	3.9b,3.6s	
NEIC		Less reliable solution.					
ISC	**VIII**	**05 02 48 43.7**±.26	**28.40N**±.056	**43.77W**±.024	**10**	**5.1b,5.1s**	**317 27-175**
EIDC	VIII	05 02 48 43.0	28.4N	43.7W	0	4.4b,5.0s	**¶97viii0603**
NEIC	VIII	05 02 48 43.4	28.40N	43.77W	10	5.2b,5.2s	
BJI	VIII	05 02 48 44.9	29.07N	43.84W	5	5.4b,5.8s	
MOS	VIII	05 02 48 45.1	28.7N	43.7W	10	5.5b,5.0s	
HRVD	VIII	05 02 48 50.1±.2	28.57N±.03	43.41W±.03	15		
NEIC		Mw5.5(HRV).					
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s41,c71; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.77±.03; $M_{\theta\theta}$0.02±.05; $M_{\phi\phi}$1.75±.04; $M_{r\theta}$0.33±.11; $M_{r\phi}$0.54±.17; $M_{\theta\phi}$0.41±.03. Principal Axes: T 1.94,Plg9°,Azm283°; N −0.05, Plg6°,Azm14°; P −1.89,Plg79°,Azm138°. Best double couple: $M_0$1.9×10^{17}Nm, NP1:ϕ_S6°, δ36°,λ−100°. NP2:ϕ_S199°,δ55°,λ−82°.					
EIDC	**VIII**	**05 03 13 29.9**	**27.9N**	**43.7W**	**0**	**3.7b**	**48-70**
							¶97viii0605
ISC	**VIII**	**06 01 06 47.1**±.47	**31.12N**±.091	**41.39W**±.084	**10**	**4.1b,3.9s**	**27 30-83**
NEIC	VIII	06 01 06 46.9	31.11N	41.40W	10	4.3b,3.7s	**¶97viii0743**
EIDC	VIII	06 01 06 47.4	31.1N	41.4W	0	3.9b,4.0s	
ISC	**VIII**	**06 01 38 58.2**±.35	**52.09N**±.079	**30.13W**±.059	**10**	**4.1b,3.5s**	**68 16-149**
NEIC	VIII	06 01 38 57.9	52.05N	30.14W	10	4.2b,3.6s	**¶97viii0747**
EIDC	VIII	06 01 39 01.6	52.1N	30.3W	19	4.0b,3.6s	
ISC	**VIII**	**20 22 16 40.1**±.56	**45.2N**±.12	**27.95W**±.069	**10**	**4.2b,3.7s**	**54 18-154**
NEIC	VIII	20 22 16 39.8	45.19N	28.00W	10	4.2b,3.7s	**¶97viii3025**
EIDC	VIII	20 22 16 43.4	45.2N	28.0W	20	4.0b,3.8L	

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 21 04 49 13**±2.4	**16.4N**±.16	**46.5W**±.52	**10**	**3.9b**	**8**	**39-80**
NEIC	VIII 21 04 49 12.6	16.38N	46.55W	10	4.3b		¶97viii3054
EIDC	VIII 21 04 49 12.7	16.4N	46.5W	0	3.9b		
NEIC	Poor solution.						
ISC	**VIII 30 22 02 19.0**±.37	**16.40N**±.069	**46.48W**±.063	**10**	**4.4b,4.3s**	**63**	**26-91**
NEIC	VIII 30 22 02 19.0	16.41N	46.51W	10	4.6b,4.5s		¶97viii4544
EIDC	VIII 30 22 02 19.1	16.5N	46.6W	0	4.2b,4.1s		
ISC	**IX 04 05 36 58**±1.0	**52.3N**±.22	**30.7W**±.16	**10**	**3.4b**	**8**	**16-57**
NEIC	IX 04 05 36 57.9	52.25N	30.69W	10			¶97ix0550
EIDC	IX 04 05 36 58.3	52.2N	30.7W	0	3.3b,4.1L		
NEIC	Single network solution.						
ISC	**IX 14 00 58 05**±1.3	**45.1N**±.26	**28.1W**±.11	**10**	**4.0b**	**19**	**19-154**
NEIC	IX 14 00 58 04.9	45.09N	28.14W	10	4.3b		¶97ix2056
EIDC	IX 14 00 58 05.7	45.1N	28.2W	0	3.8b,3.5L		
NEIC	Less reliable solution.						
ISC	**IX 15 16 52 45.0**±.37	**25.55N**±.073	**45.30W**±.055	**10**	**4.4b,4.8s**	**105**	**27-178**
NEIC	IX 15 16 52 44.7	25.53N	45.32W	10	4.7b,4.8s		¶97ix2265
EIDC	IX 15 16 52 45.3	25.6N	45.3W	0	4.3b,4.7s		
HRVD	IX 15 16 52 49.7±.5	25.39N±.07	45.25W±.04	15			
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c26; Half duration: 1s3. Moment tensor: Scale 10^{16}Nm; M_{rr}−7.44±.51; $M_{\theta\theta}$0.98±1.19; $M_{\phi\phi}$6.46±.87; $M_{r\theta}$0.00±.00; $M_{r\phi}$0.00±.00; $M_{\theta\phi}$1.31±.45. Principal Axes: T 6.76,Plg0°,Azm103°; N 0.69, Plg0°,Azm13°; P −7.44,Plg90°,Azm180°. Best double couple: $M_0$7.1×10^{16}Nm, NP1:ϕ_S193°, δ45°,λ−90°. NP2:ϕ_S13°,δ45°,λ−90°.						
ISC	**IX 17 17 36 16.5**±.91	**12.5N**±.16	**44.2W**±.17	**10**	**3.8b,**3.5s	**6**	**22-84**
EIDC	IX 17 17 36 16.2	12.4N	44.2W	0	3.8b,3.5s		¶97ix2539
ISC	**IX 22 07 39 39.1**±.42	**52.08N**±.097	**30.01W**±.055	**10**	**4.4b,3.6s**	**70**	**14-154**
NEIC	IX 22 07 39 38.9	52.08N	30.02W	10	4.5b		¶97ix3243
EIDC	IX 22 07 39 40.1	52.2N	29.9W	0	4.1b,3.7s		
ISC	**IX 26 18 37 28.0**±.37	**24.91N**±.074	**45.75W**±.050	**10**	**4.5b**	**65**	**34-179**
NEIC	IX 26 18 37 27.6	24.89N	45.76W	10	4.7b		¶97ix4110
EIDC	IX 26 18 37 31.3	24.9N	45.9W	23	4.2b		
ISC	**X 01 21 41 04.2**±.54	**13.50N**±.099	**44.6W**±.11	**10**	**4.0b,4.1s**	**18**	**23-83**
NEIC	X 01 21 41 04.0	13.50N	44.67W	10			¶97x0159
EIDC	X 01 21 41 04.3	13.5N	44.7W	0	4.0b,4.2s		
NEIC	Less reliable solution.						
ISC	**X 04 15 29 46.7**±.18	**15.97N**±.038	**46.65W**±.022	**10**	**5.4b,5.3s**	**392**	**14-176**
NEIC	X 04 15 29 46.2	15.92N	46.65W	10	5.5b		¶97x0674
MOS	X 04 15 29 46.5	15.9N	46.6W	10	5.7b,5.2s		
HRVD	X 04 15 29 48.1±.4	15.36N±.06	46.70W±.05	15			
BJI	X 04 15 29 48.2	15.90N	46.60W	10	5.6s		
EIDC	X 04 15 29 48.6	15.9N	46.7W	16	4.6b		
NEIC	Mw5.5(HRV), Mw5.3(GS).						
NEIC	Moment tensor solution: s16, scale 10^{16}Nm; M_{rr}−9.60; $M_{\theta\theta}$1.20; $M_{\phi\phi}$8.30; $M_{r\theta}$1.80; $M_{r\phi}$−3.50; $M_{\theta\phi}$−2.20. Depth 13km; Principal axes: T 9.7,Plg11°,Azm73°; N 0.7,Plg4°, Azm343°; P −10.4,Plg78°,Azm235°. Best double couple: $M_0$1.0×10^{17}Nm; NP1:ϕ_S168°,δ34°, λ−83°. NP2:ϕ_S340°,δ56°,λ−94°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c60; Mantle waves: s2,c2; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.85±.06; $M_{\theta\theta}$0.08±.07; $M_{\phi\phi}$1.77±.09; $M_{r\theta}$0.88±.23; $M_{r\phi}$−0.60±.32; $M_{\theta\phi}$0.02±.06. Principal Axes: T 1.88,Plg10°,Azm86°; N 0.39,Plg19°,Azm352°; P −2.27,Plg68°,Azm202°. Best double couple: $M_0$2.1×10^{17}Nm, NP1:ϕ_S198°,δ39°,λ−58°. NP2:ϕ_S339°,δ58°,λ−113°.						
ISC	**X 04 15 34 29.8**±.23	**16.01N**±.047	**46.75W**±.022	**10**	**5.6b,5.5s**	**374**	**14-176**
EIDC	X 04 15 34 29.1	16.1N	46.7W	0	4.8b		¶97x0676
MOS	X 04 15 34 29.3	15.9N	46.7W	10	6.0b,5.3s		
BJI	X 04 15 34 29.6	16.00N	46.70W	10	5.8s		
NEIC	X 04 15 34 29.6	16.01N	46.75W	10	5.6b,5.5s		
HRVD	X 04 15 34 33.1±.3	15.71N±.06	46.55W±.05	15			
NEIC	Mw5.7(HRV), Mw5.5(GS).						
NEIC	Moment tensor solution: s20, scale 10^{17}Nm; M_{rr}−1.80; $M_{\theta\theta}$−0.15; $M_{\phi\phi}$1.95; $M_{r\theta}$−0.52; $M_{r\phi}$−0.27; $M_{\theta\phi}$−0.38. Depth 7km; Principal axes: T 2.03,Plg3°,Azm81°; N −0.04,Plg17°, Azm171°; P −1.99,Plg72°,Azm342°. Best double couple: $M_0$2.0×10^{17}Nm; NP1:ϕ_S153°,δ45°, λ−115°. NP2:ϕ_S7°,δ50°,λ−67°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s43,c59; Mantle waves: s8,c9; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.85±.09; $M_{\theta\theta}$−0.06±.11; $M_{\phi\phi}$2.91±.13; $M_{r\theta}$0.72±.33; $M_{r\phi}$1.72±.49; $M_{\theta\phi}$0.62±.10. Principal Axes: T 3.56,Plg16°,Azm283°; N −0.15,Plg6°,Azm15°; P −3.41,Plg73°,Azm123°. Best double couple: $M_0$3.5×10^{17}Nm, NP1:ϕ_S4°,δ29°,λ−102°. NP2:ϕ_S198°,δ61°,λ−84°.						
ISC	**X 07 13 13 39.7**±.29	**23.26N**±.058	**44.89W**±.037	**10**	**4.9b,4.8s**	**131**	**17-126**
NEIC	X 07 13 13 39.2	23.22N	44.90W	10	5.0b,4.7s		¶97x1254
EIDC	X 07 13 13 39.6	23.2N	44.9W	0	4.6b,4.6s		
HRVD	X 07 13 13 43.4±1.1	22.97N±.17	44.82W±.14	15			
NEIC	Mw5.2(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c31; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−5.12±.33; $M_{\theta\theta}$1.32±.65; $M_{\phi\phi}$3.79±.58; $M_{r\theta}$3.63±2.51; $M_{r\phi}$3.04±2.70; $M_{\theta\phi}$0.31±.34. Principal Axes: T 5.35,Plg22°,Azm296°; N 2.04, Plg12°,Azm31°; P −7.39,Plg64°,Azm147°. Best double couple: $M_0$6.4×10^{16}Nm, NP1:ϕ_S4°, δ25°,λ−120°. NP2:ϕ_S216°,δ69°,λ−77°.						
ISC	**X 10 02 51 00.6**±.71	**31.8N**±.14	**41.1W**±.15	**10**	**4.0b,3.7s**	**12**	**42-68**
NEIC	X 10 02 51 00.3	31.77N	41.15W	10	4.4b		¶97x1682
EIDC	X 10 02 51 00.7	31.8N	41.2W	0	3.9b,3.9s		
NEIC	Less reliable solution.						
ISC	**X 10 07 11 00**±1.3	**31.6N**±.22	**41.0W**±.23	**10**	**3.8b**	**6**	**44-68**
EIDC	X 10 07 11 00.1	31.5N	41.0W	0	3.8b,3.5s		¶97x1712
ISC	**X 13 21 23 38.6**±.96	**15.7N**±.15	**46.9W**±.26	**10**	**4.1b**	**9**	**31-132**
NEIC	X 13 21 23 38.1	15.71N	46.86W	10	3.8b		¶97x2289
EIDC	X 13 21 23 38.9	15.7N	46.9W	0	4.1b		
NEIC	Less reliable solution.						
ISC	**X 14 10 41 15.9**±.31	**28.35N**±.065	**43.75W**±.035	**10**	**4.9b**	**126**	**32-171**
NEIC	X 14 10 41 15.7	28.37N	43.77W	10	5.1b		¶97x2380
EIDC	X 14 10 41 19.0	28.3N	43.8W	20	4.5b		
MOS	X 14 10 41 23.6	29.2N	42.9W	10	5.5b		
ISC	**X 15 03 24 05.6**±.71	**28.2N**±.11	**43.8W**±.16	**10**	**4.4b**	**14**	**44-73**
NEIC	X 15 03 24 05.5	28.25N	43.86W	10	4.8b		¶97x2556
EIDC	X 15 03 24 05.5	28.3N	43.9W	0	4.3b		
NEIC	Less reliable solution.						
ISC	**X 18 17 46 16.6**±.40	**46.07N**±.091	**27.58W**±.071	**10**	**4.3b,**3.6s	**37**	**18-153**
BJI	X 18 17 46 15.4	45.75N	27.86W	25	4.9b		¶97x3205
NEIC	X 18 17 46 16.4	46.09N	27.59W	10	4.4b		
EIDC	X 18 17 46 16.7	46.1N	27.6W	0	4.0b,3.8L		
ISC	**X 19 04 30 17.9**±.51	**23.8N**±.11	**45.63W**±.065	**10**	**4.4b,4.0s**	**35**	**41-73**
NEIC	X 19 04 30 17.6	23.76N	45.64W	10	4.5b,4.0s		¶97x3286
EIDC	X 19 04 30 22.0	23.8N	45.6W	23	4.1b,4.0s		
ISC	**X 22 06 30 17.8**±.28	**15.64N**±.059	**46.74W**±.038	**43**±2.2*	**4.6b,4.3s**	**128**	**14-172**
NEIC	X 22 06 30 13.3	15.65N	46.72W	10	4.8b,4.3s		¶97x3760
EIDC	X 22 06 30 19.8	15.7N	46.7W	42	4.1b,4.1s		
ISC	**X 23 14 07 28.8**±.17	**46.38N**±.032	**27.50W**±.029	**10**	**5.0b,5.1s**	**277**	**9-153**
BJI	X 23 14 07 23.8	45.67N	27.98W	10	5.1b,5.5s		¶97x4010
NEIC	X 23 14 07 28.8	46.45N	27.51W	10	5.0b,5.2s		
EIDC	X 23 14 07 28.9	46.5N	27.4W	0	4.6b,5.0s		
HRVD	X 23 14 07 32.8±.3	46.25N±.05	27.68W±.04	15			
NEIC	Mw5.5(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c72; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.28±.04; $M_{\theta\theta}$0.00±.05; $M_{\phi\phi}$1.28±.04; $M_{r\theta}$0.85±.14; $M_{r\phi}$−0.81±.18; $M_{\theta\phi}$0.45±.04. Principal Axes: T 1.54,Plg13°,Azm99°; N 0.43, Plg27°,Azm2°; P −1.97,Plg59°,Azm212°. Best double couple: $M_0$1.8×10^{17}Nm, NP1:ϕ_S220°, δ40°,λ−44°. NP2:ϕ_S347°,δ63°,λ−121°.						
ISC	**X 25 09 55 00.4**±.24	**22.66N**±.049	**45.18W**±.029	**10**	**5.4b,4.9s**	**299**	**17-179**
MOS	X 25 09 54 59.9	22.6N	45.1W	10	5.6b,4.7s		¶97x4310
NEIC	X 25 09 55 00.2	22.67N	45.19W	10	5.5b,4.9s		
EIDC	X 25 09 55 00.5	22.8N	45.1W	0	4.6b		
HRVD	X 25 09 55 02.6±.5	22.09N±.07	45.16W±.08	15			
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s25,c37; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−6.11±.27; $M_{\theta\theta}$−1.15±.40; $M_{\phi\phi}$7.26±.48; $M_{r\theta}$2.90±.91; $M_{r\phi}$−6.08±1.76; $M_{\theta\phi}$1.38±.37. Principal Axes: T 9.62,Plg21°,Azm91°; N 0.05, Plg20°,Azm354°; P −9.67,Plg61°,Azm224°. Best double couple: $M_0$9.6×10^{16}Nm, NP1: ϕ_S212°,δ30°,λ−47°. NP2:ϕ_S345°,δ68°,λ−111°.						
ISC	**X 25 11 41 01.2**±.86	**18.4N**±.19	**46.3W**±.19	**10**	**4.2b**	**10**	**42-78**
NEIC	X 25 11 41 01.1	18.46N	46.27W	10	4.7b		¶97x4316
EIDC	X 25 11 41 01.2	18.5N	46.3W	0	3.9b		
NEIC	Less reliable solution.						
ISC	**XI 12 21 36 14.3**±.69	**31.8N**±.15	**41.00W**±.073	**10**	**4.4b,3.8s**	**35**	**31-83**
NEIC	XI 12 21 36 13.9	31.79N	41.01W	10	4.8b		¶97xi2036
EIDC	XI 12 21 36 14.6	31.8N	41.0W	0	3.9b,3.9s		
NEIC	Less reliable solution.						
ISC	**XI 13 16 01 20.0**±.44	**11.1N**±.10	**43.56W**±.077	**10**	**4.2b**	**26**	**27-86**
NEIC	XI 13 16 01 19.8	11.17N	43.57W	10	4.7b		¶97xi2161
EIDC	XI 13 16 01 20.3	11.1N	43.6W	0	4.1b		
ISC	**XI 13 16 09 12.8**±.60	**11.4N**±.12	**43.9W**±.13	**10**	**4.3b,4.0s**	**15**	**27-85**
NEIC	XI 13 16 09 12.9	11.49N	43.86W	10	4.6b		¶97xi2162
EIDC	XI 13 16 09 13.0	11.5N	44.0W	0	4.1s,4.2b		
NEIC	Less reliable solution.						
ISC	**XI 13 16 13 36.5**±.53	**11.1N**±.11	**43.69W**±.099	**10**	**4.5b**	**18**	**27-88**
NEIC	XI 13 16 13 36.2	11.15N	43.70W	10	4.7b		¶97xi2164
EIDC	XI 13 16 13 36.3	11.2N	43.8W	0	4.3b		
NEIC	Less reliable solution.						
ISC	**XI 13 16 15 47**±1.2	**11.1N**±.20	**43.5W**±.23	**10**	**4.2b**	**8**	**57-86**
NEIC	XI 13 16 15 47.3	11.15N	43.59W	10	4.7b		¶97xi2165
EIDC	XI 13 16 15 48.0	11.2N	43.7W	0	4.0b		
NEIC	Poor solution.						
ISC	**XI 13 16 30 55.7**±.75	**11.2N**±.18	**43.5W**±.11	**10**	**3.9b,3.9s**	**11**	**37-86**
NEIC	XI 13 16 30 54.8	11.27N	43.59W	10			¶97xi2166
EIDC	XI 13 16 30 55.5	11.5N	43.7W	0	4.0s,3.9b		
NEIC	Poor solution.						
ISC	**XI 13 16 57 29.6**±.37	**11.27N**±.080	**43.58W**±.067	**10**	**4.6b,3.9s**	**38**	**27-149**
NEIC	XI 13 16 57 29.3	11.23N	43.60W	10	4.8b		¶97xi2171
EIDC	XI 13 16 57 29.8	11.3N	43.7W	0	4.2b,3.9s		
ISC	**XI 13 17 58 43.8**±.30	**43.18N**±.065	**29.09W**±.044	**10**	**4.6b,4.5s**	**120**	**19-153**
NEIC	XI 13 17 58 43.6	43.22N	29.11W	10	4.7b,4.6s		¶97xi2176
EIDC	XI 13 17 58 44.0	43.2N	29.1W	0	4.3b,4.3s		
ISC	**XI 18 19 33 49**±2.3	**11.3N**±.18	**44.6W**±.57	**10**	**4.0b**	**6**	**27-85**
EIDC	XI 18 19 33 48.5	11.4N	44.4W	0	4.0b,3.6s		¶97xi3050
ISC	**XI 23 23 08 56**±1.1	**43.2N**±.18	**29.3W**±.21	**10**	**4.1b,**3.8s	**12**	**37-68**
NEIC	XI 23 23 08 56.3	43.18N	29.36W	10	4.5b		¶97xi4218
EIDC	XI 23 23 08 56.9	43.2N	29.3W	0	3.7s,3.9b		
NEIC	Less reliable solution.						
ISC	**XI 30 15 59 36**±1.5	**44.0N**±.38	**27.97W**±.093	**10**	**4.3b,**3.7s	**21**	**20-155**
NEIC	XI 30 15 59 35.6	43.94N	28.02W	10	4.4b,3.7s		¶97xi5430
EIDC	XI 30 15 59 37.2	44.3N	28.4W	0	4.0b,3.8s		
NEIC	Less reliable solution.						
ISC	**XI 30 17 57 36.7**±.31	**30.63N**±.063	**41.80W**±.044	**10**	**4.8b,5.1s**	**132**	**27-172**
NEIC	XI 30 17 57 36.4	30.62N	41.82W	10	4.9b,5.1s		¶97xi5442
EIDC	XI 30 17 57 36.6	30.6N	41.8W	0	4.6b,4.9s		
HRVD	XI 30 17 57 42.0±.3	30.45N±.06	41.60W±.06	15			
NEIC	Mw5.3(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s22,c39; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}−9.85±.35; $M_{\theta\theta}$0.95±.60; $M_{\phi\phi}$8.90±.47; $M_{r\theta}$3.53±1.61; $M_{r\phi}$3.67±2.08; $M_{\theta\phi}$2.86±.38. Principal Axes: T 10.9,Plg13°,Azm291°; N 0.4, Plg10°,Azm23°; P −11.3,Plg74°,Azm150°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S7°, δ33°,λ−109°. NP2:ϕ_S209°,δ58°,λ−78°.						
ISC	**XI 30 19 49 13.2**±.55	**30.7N**±.11	**41.8W**±.13	**10**	**4.3b,4.1s**	**15**	**42-172**
NEIC	XI 30 19 49 12.9	30.70N	41.82W	10	4.6b,4.0s		¶97xi5456
EIDC	XI 30 19 49 13.2	30.8N	41.7W	0	4.1s,4.2b		
NEIC	Less reliable solution.						
ISC	**XI 30 20 22 19.9**±.56	**30.7N**±.10	**41.8W**±.10	**10**	**4.5b,4.0s**	**26**	**36-172**
NEIC	XI 30 20 22 19.6	30.67N	41.82W	10	4.6b,3.9s		¶97xi5457
EIDC	XI 30 20 22 19.9	30.7N	41.8W	0	4.0s,4.1b		
ISC	**XI 30 22 17 40.6**±.31	**30.67N**±.063	**41.78W**±.042	**10**	**4.9b,4.7s**	**124**	**28-172**
BJI	XI 30 22 17 40.3	30.70N	41.80W	10	5.4b		¶97xi5472
NEIC	XI 30 22 17 40.3	30.66N	41.79W	10	5.1b,4.8s		
EIDC	XI 30 22 17 41.1	30.7N	41.8W	0	4.5b,4.5s		
HRVD	XI 30 22 17 44.2±.9	30.37N±.24	41.49W±.21	15			
NEIC	Mw5.1(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s13,c17; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−2.95±.39; $M_{\theta\theta}$0.25±.63; $M_{\phi\phi}$2.70±.41; $M_{r\theta}$3.23±1.97; $M_{r\phi}$1.21±2.51; $M_{\theta\phi}$0.88±.45. Principal Axes: T 3.90,Plg22°,Azm305°; N 1.10, Plg21°,Azm43°; P −5.00,Plg59°,Azm172°. Best double couple: $M_0$4.4×10^{16}Nm, NP1:ϕ_S1°, δ29°,λ−136°. NP2:ϕ_S231°,δ70°,λ−68°.						
ISC	**XII 01 00 10 33.1**±.29	**11.21N**±.058	**43.65W**±.054	**10**	**4.8b,4.0s**	**66**	**21-171**
EIDC	XII 01 00 10 32.5±.48	11.2N	43.7W	0	4.6b,4.1s		¶97xii0002
NEIC	XII 01 00 10 32.8	11.21N	43.66W	10	5.0b		
EIDC	Error ellipse is semi-major=15.6km semi-minor=12.9km azimuth=109						
ISC	**XII 02 04 47 56.0**±.30	**12.01N**±.060	**43.82W**±.050	**10**	**4.5b,4.1s**	**71**	**21-172**
NEIC	XII 02 04 47 55.6	11.99N	43.82W	10	5.0b,4.4s		¶97xii0184
MOS	XII 02 04 47 55.8	12.0N	43.8W	10	5.1b		
EIDC	XII 02 04 47 56.2±.49	12.0N	43.8W	0	4.4b,4.1s		
EIDC	Error ellipse is semi-major=15.2km semi-minor=13.2km azimuth=144						
ISC	**XII 04 13 49 37.7**±.76	**32.0N**±.14	**41.1W**±.19	**10**	**4.0b,**3.9s	**8**	**42-83**
NEIC	XII 04 13 49 37.4	31.98N	41.16W	10			¶97xii0623
EIDC	XII 04 13 49 37.9±.85	32.0N	41.1W	0	3.9s,3.9b		
NEIC	Poor solution.						
EIDC	Error ellipse is semi-major=26.9km semi-minor=21.8km azimuth=109						
ISC	**XII 14 11 14 41.1**±.56	**47.6N**±.12	**27.70W**±.079	**10**	**4.0b,3.8s**	**32**	**17-152**
NEIC	XII 14 11 14 40.8	47.63N	27.72W	10	4.0b,3.7s		¶97xii3138
EIDC	XII 14 11 14 41.4±.78	47.7N	27.7W	0	3.9b,3.8s		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi-major=23.3km semi-minor=15.0km azimuth=18						

ISC XII 16 11 17 22.9±.38 **30.03N**±.067 **42.63W**±.054 **10** **4.9b,4.9s** **88 31-153**
BJI XII 16 11 17 22.4 30.00N 42.60W 10 **¶97xii3443**
NEIC XII 16 11 17 22.4 29.99N 42.63W 10 5.0b,5.0s
EIDC XII 16 11 17 22.4±.95 30.1N 42.8W 0 4.5b,4.7s
HRVD XII 16 11 17 27.4±.4 30.32N±.05 42.45W±.06 15
NEIC Mw5.5(HRV).
EIDC Error ellipse is semi−major=28.1km semi−minor=18.6km azimuth=150
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s29,c42; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.43±.07; $M_{\theta\theta}$1.34±.11; $M_{\phi\phi}$−0.91±.09; $M_{r\theta}$−0.40±.32; $M_{r\phi}$−0.85±.25; $M_{\theta\phi}$1.60±.07. Principal Axes: T 2.37,Plg15°,Azm150°; N −0.40,Plg63°,Azm29°; P −1.97,Plg22°,Azm247°. Best double couple: $M_0$2.2×10^{17}Nm, NP1: ϕ_S287°,δ63°,λ−5°. NP2:ϕ_S20°,δ85°,λ−153°.
ISC XII 18 01 00 23±1.4 **32.1N**±.36 **40.2W**±.23 **10** **3.8b** **7 54-86**
NEIC XII 18 01 00 22.9 32.00N 40.27W 10 **¶97xii3688**
EIDC XII 18 01 00 23.6±1.48 32.1N 40.2W 0 3.7b,3.7s
NEIC Poor solution.
EIDC Error ellipse is semi−major=58.5km semi−minor=24.5km azimuth=20
ISC XII 23 22 49 56.4±.75 **50.1N**±.15 **29.0W**±.11 **10** **4.1b,3.6s** **28 16-150**
NEIC XII 23 22 49 55.7 50.09N 29.07W 10 4.3b,3.7s **¶97xii4664**
EIDC XII 23 22 49 56.7±1.18 50.2N 29.0W 0 3.7b,3.6s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=30.7km semi−minor=21.1km azimuth=25
ISC XII 30 05 42 17.4±.74 **50.2N**±.17 **29.1W**±.11 **10** **3.8b,3.3s** **17 17-150**
NEIC XII 30 05 42 17.0 50.07N 29.18W 10 4.1b,3.5s **¶97xii5687**
EIDC XII 30 05 42 20.3±1.27 50.1N 29.1W 21±5.0 3.5b,3.3s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=32.7km semi−minor=17.4km azimuth=166

(404) Azores region.

ADH VII 07 09 39 21.2 **37.54N** **24.67W** **2.4**D **¶97vii1024**
ADH VII 18 19 32 54.1 **37.63N** **24.50W** **3.1**D **¶97vii2779**
ISC VII 18 19 35 05±9.2 **36.8N**±.31 **24.7W**±.74 **0** **20 1-4**
ADH VII 18 19 35 11.8 36.96N 24.67W 3.5D **¶97vii2780**
ADH Felt on Santa Maria I=II−III MM at Santo Espirito, Santa Barbara
ADH VII 18 20 27 46.6 **36.89N** **24.80W** **3.9**D **¶97vii2787**
NEIC VII 18 20 27 42.0 36.60N 24.27W 33
EIDC VII 18 20 27 42.2 36.6N 24.3W 18 3.5b,4.1L
ADH Felt on Santa Maria I=III−IV MM at Santo Espirito, III Vila do Porto
NEIC Poor solution.
ADH VII 18 20 29 29.2 **37.01N** **24.65W** **2.7**D **¶97vii2788**
ADH VII 19 04 51 29.0 **37.42N** **24.21W** **2.8**D **¶97vii2831**
ISC VII 24 05 55 55±8.5 **36.8N**±.29 **24.8W**±.66 **0** **19 1-4**
ADH VII 24 05 56 00.8 36.96N 24.63W 3.7D **¶97vii3629**
ADH Felt on Santa Maria I=III MM
ISC VIII 13 07 29 17.1±.21 **38.11N**±.050 **31.41W**±.028 **10** **4.7b,4.6s** **190 1-161**
BJI VIII 13 07 29 16.9 38.10N 31.50W 10 4.9b,5.7s **¶97viii1870**
NEIC VIII 13 07 29 16.9 38.12N 31.45W 10 4.8b,4.6s
ADH VIII 13 07 29 17.6 37.00N 31.66W 4.4D
EIDC VIII 13 07 29 20.0 38.1N 31.4W 19 4.3b,4.6s
MOS VIII 13 07 29 20.3 38.9N 31.6W 10 5.0b
ADH VIII 14 06 50 25.5 **37.54N** **24.75W** **2.2**D **¶97viii2021**
ADH VIII 15 05 27 29.5 **37.96N** **24.45W** **2.4**D **¶97viii2164**
ADH VIII 16 04 04 13.3 **38.57N** **24.24W** **3.3**D **¶97viii2313**
ADH VIII 18 01 22 47.1 **37.62N** **24.95W** **2.2**D **¶97viii2606**
ADH VIII 23 21 09 31.8 **37.51N** **24.73W** **3.0**D **¶97viii3453**
ISC VIII 28 08 53 53±9.6 **39.2N**±.54 **24.9W**±.74 **0** **19 1-3**
ADH VIII 28 08 53 59.2 39.20N 24.84W 3.7D **¶97viii4106**
ADH IX 01 04 34 39.8 **37.34N** **24.70W** **2.4**D **¶97ix0041**
ISC IX 12 19 17 41±1.0 **37.5N**±.24 **32.4W**±.17 **10** **4.1b** **9 22-79**
NEIC IX 12 19 17 40.1 37.47N 32.38W 10 4.5b **¶97ix1862**
EIDC IX 12 19 17 40.6 37.5N 32.3W 0 3.8b
NEIC Less reliable solution.
ADH X 03 05 30 02.5 **37.53N** **24.57W** **2.6**D **¶97x0402**
ADH X 04 12 44 27.3 **37.69N** **24.90W** **¶97x0647**
EIDC X 10 12 56 56.3 **41.8N** **29.5W** **0** **3.6s,3.9b** **¶97x1754**
ADH XI 14 03 37 21.4 **37.47N** **23.78W** **3.5**D **¶97xi2233**
ISC XII 03 05 50 59.1±.77 **35.8N**±.17 **34.8W**±.12 **10** **4.2b,3.9s** **16 36-81**
NEIC XII 03 05 50 58.6 35.71N 34.81W 10 4.5b **¶97xii0367**
EIDC XII 03 05 50 59.3±.82 35.8N 34.9W 0 4.0b,3.9s
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=25.7km semi−minor=19.9km azimuth=167
ISC XII 06 23 08 24.8±.72 **37.2N**±.14 **32.7W**±.13 **10** **4.1b,3.7s** **12 23-66**
EIDC XII 06 23 08 24.9±.92 37.2N 32.7W 0 3.8s,3.8b **¶97xii1552**
NEIC XII 06 23 08 27.7 37.16N 32.67W 33 4.6b
EIDC Error ellipse is semi−major=26.3km semi−minor=18.9km azimuth=167
NEIC Less reliable solution.
ADH XII 16 03 09 20.6 **37.45N** **24.96W** **2.4**D **¶97xii3374**

(405) Azores.

ADH VII 01 13 50 59.1 **38.21N** **26.86W** **3.1**D **¶97vii0100**
ISC VII 01 22 16 52±12 **37.6N**±.65 **25.5W**±.21 **0** **7 0-0**
ADH VII 01 22 16 50.3 37.54N 25.43W 2.2D **¶97vii0148**
ISC VII 02 03 09 16±6.7 **38.1N**±.61 **26.9W**±.67 **0** **8 1-1**
ADH VII 02 03 09 19.8 38.23N 26.84W 2.3D **¶97vii0173**
ISC VII 02 08 48 18±1.9 **38.1N**±.11 **27.2W**±.15 **0** **8 1-2**
ADH VII 02 08 48 18.6 38.26N 26.77W 2.5D **¶97vii0207**
ISC VII 02 13 47 16±1.6 **38.1N**±.17 **26.8W**±.11 **22**±17 3.5b **20 1-56**
ADH VII 02 13 47 17.2 38.33N 26.76W 3.4D **¶97vii0250**
ADH Felt on Terceira I=II MM at Angra do Heroisma, Praia da Victoria
ISC VII 02 17 36 24±1.3 **37.9N**±.10 **26.9W**±.10 **0** **11 1-2**
ADH VII 02 17 36 29.0 38.15N 26.80W 3.0D **¶97vii0272**
ISC VII 04 18 12 43±1.3 **38.3N**±.22 **26.9W**±.12 **47**±54 **22 0-1**
ADH VII 04 18 12 45.2 38.27N 26.89W 3.6D **¶97vii0601**
ADH Felt on Terceira I=III MM at Porto Judeu, Santa Rita da Praia, Angra do Heroismo, Agualva, II Terra Cha
ISC VII 05 01 42 37±1.4 **38.3N**±.25 **26.9W**±.13 **32**±20 **21 0-1**
ADH VII 05 01 42 38.5 38.29N 26.87W 3.5D **¶97vii0659**
ADH Felt on Terceira I=II−III MM at Angra do Heroisma and the south east coast
ISC VII 05 04 22 54±1.8 **38.3N**±.27 **26.8W**±.14 **28**±23 **18 0-2**
ADH VII 05 04 22 55.4 38.27N 26.87W 3.4D **¶97vii0675**
ADH Felt on Terceria I=II MM at Angra do Heroismo and the south east coast
ISC VII 06 08 05 45.0±.92 **38.54N**±.094 **28.60W**±.067 **0** **6 0-0**
ADH VII 06 08 05 43.0 38.43N 28.73W 2.3D **¶97vii0856**
ISC VII 07 06 54 30.9±.92 **38.10N**±.084 **26.95W**±.065 **16**±7.8 **3.7b** **23 1-93**
NEIC VII 07 06 54 30.2 38.10N 27.01W 10 3.6b **¶97vii1005**
EIDC VII 07 06 54 30.9 38.2N 27.0W 0 3.4b,3.2s
ADH VII 07 06 54 33.8 38.25N 26.88W 3.4D
NEIC Less reliable solution.
ADH Felt on Terceira I=II−III MM at Angra do Heroismo
ISC VII 07 19 39 44±1.9 **38.20N**±.080 **26.87W**±.064 **11**±13 **4.0b,**3.9s **25 1-88**
NEIC VII 07 19 39 44.2 38.30N 26.82W 10 4.1b **¶97vii1083**
EIDC VII 07 19 39 44.5 38.3N 26.8W 0 3.9b,3.8s
ADH VII 07 19 39 46.9 38.22N 26.92W 3.8D
NEIC Less reliable solution.
ADH Felt on Terceira I=III MM at Angra do Heroismo, Praia da Victoria, Sao Bartolomeu, Porto Judeu; on Sao Miguel III at Mosteiros, Candelaria, II Ponta Delgada
ISC VII 07 20 07 17.0±.75 **38.04N**±.085 **27.01W**±.076 **0** **3.8b** **16 1-67**
EIDC VII 07 20 07 12.9 37.5N 25.9W 0 3.6b **¶97vii1086**
ADH VII 07 20 07 21.6 38.25N 26.92W 3.3D
ADH Felt on Terceira I=II MM at Angra do Heroismo
ISC VII 08 02 55 31.8±.82 **38.3N**±.18 **26.7W**±.15 **0** **11 1-2**
ADH VII 08 02 55 34.4 38.21N 26.89W 3.2D **¶97vii1132**
ADH Felt on Terceira I=II MM at Angra do Heroismo
ADH VII 09 22 26 20.0 **39.38N** **30.08W** **3.5**D **¶97vii1406**
ADH VII 10 01 01 25.3 **38.58N** **28.44W** **6** **2.4**D **¶97vii1423**
ISC VII 10 19 05 58±1.7 **38.5N**±.22 **28.6W**±.14 **11** **4 0-0**
ADH VII 10 19 05 57.4 38.47N 28.73W 11 2.6D **¶97vii1549**
ISC Poorly determined
ISC VII 10 23 43 15±1.8 **38.5N**±.18 **28.4W**±.10 **12**±14 **6 0-1**
ADH VII 10 23 43 15.4 38.45N 28.45W 2.9D **¶97vii1590**
ISC VII 11 11 05 51±1.4 **38.6N**±.17 **28.4W**±.14 **13** **4 0-0**
ADH VII 11 11 05 51.6 38.54N 28.42W 13 2.7D **¶97vii1680**
ISC Poorly determined
ISC VII 12 01 15 19±1.1 **38.48N**±.099 **27.39W**±.077 **0** **8 0-2**
ADH VII 12 01 15 14.6 38.32N 26.74W 3.1D **¶97vii1754**
ISC VII 12 02 08 46.2±.77 **38.07N**±.084 **27.00W**±.070 **0** **13 1-1**
ADH VII 12 02 08 50.9 38.26N 26.92W 3.6D **¶97vii1762**
ADH Felt on Terceira I=II MM at Angra do Heroismo
ISC VII 12 02 32 37±4.0 **38.6N**±.54 **26.7W**±.25 **68**±35 **10 0-2**
ADH VII 12 02 32 39.5 38.61N 26.75W 3.5D **¶97vii1763**
ISC VII 12 07 01 20±3.1 **38.3N**±.68 **26.9W**±.32 **27**±52 **9 0-1**
ADH VII 12 07 01 21.6 38.33N 26.91W **¶97vii1785**
ISC VII 12 18 56 33±1.2 **38.4N**±.19 **26.7W**±.18 **0** **7 0-1**
ADH VII 12 18 56 35.7 38.31N 26.94W 2.3D **¶97vii1858**
ISC VII 13 11 33 37±1.9 **38.6N**±.65 **26.9W**±.26 **32**±19 **7 0-2**
ADH VII 13 11 33 37.8 38.40N 26.88W 2.6D **¶97vii1964**
ADH VII 13 22 49 19.1 **38.31N** **26.80W** **2.4**D **¶97vii2033**
ISC VII 14 02 23 57.8±.74 **38.13N**±.097 **26.85W**±.081 **0** **12 1-2**
ADH VII 14 02 24 01.8 38.30N 26.79W 3.1D **¶97vii2061**
ADH VII 14 05 10 01.9 **37.74N** **29.03W** **2.6**D **¶97vii2072**
ADH VII 14 09 00 05.5 **38.57N** **26.87W** **¶97vii2089**
ISC VII 14 09 11 18±1.3 **38.2N**±.18 **26.7W**±.15 **0** **8 1-1**
ADH VII 14 09 11 21.8 38.29N 26.82W 2.6D **¶97vii2090**
ISC VII 15 21 00 40.9±.73 **38.20N**±.040 **26.77W**±.031 **7**±4.6 **4.5b,4.0s** **137 1-158**
BJI VII 15 21 00 39.8 38.51N 26.84W 3 4.8b **¶97vii2352**
NEIC VII 15 21 00 41.5 38.33N 26.80W 10 4.5b,4.0s
EIDC VII 15 21 00 41.8 38.3N 26.6W 0 4.2b,3.8s
MOS VII 15 21 00 43.0 38.7N 26.9W 10 5.2b,4.4s
ADH VII 15 21 00 43.6 38.23N 26.76W 4.1D
ADH Felt on Terceira I=II MM at Angra do Heroismo, Porto Judeu, Aqualva, Ribeirinha, Feteira, Praia da Victoria, Sao Sabastiao, Sao Mateus; on Sao Miguel I= II at Lagoa, Livramento, Cardelaria
ISC VII 15 21 22 40±1.1 **38.3N**±.18 **26.7W**±.14 **18**±19 **9 1-1**
ADH VII 15 21 22 42.0 38.28N 26.75W 2.8D **¶97vii2353**
ADH VII 16 08 03 56.7 **37.76N** **25.34W** **1.1**D **¶97vii2408**
ISC VII 18 17 32 18.5±.42 **38.20N**±.066 **26.72W**±.046 **0** **4.1b,**3.3s **43 1-77**
EIDC VII 18 17 32 19.6 38.1N 26.7W 0 3.8b,4.1L **¶97vii2770**
ADH VII 18 17 32 22.6 38.24N 26.81W 3.5D
NEIC VII 18 17 32 23.1 38.24N 26.66W 33 4.4b
ADH Felt on Terceira I=II−III MM at Angra do Heroismo, Agualva
NEIC Less reliable solution.
ISC VII 20 00 22 38.4±.86 **38.4N**±.23 **26.9W**±.12 **34**±15 **17 0-2**
ADH VII 20 00 22 40.0 38.35N 26.95W 3.6D **¶97vii2976**
ADH VII 20 05 43 53.7 **37.88N** **25.88W** **1.8**D **¶97vii3024**
ISC VII 22 14 28 15±2.9 **38.3N**±.83 **26.7W**±.44 **26**±56 **7 1-1**
ADH VII 22 14 28 17.4 38.31N 26.73W 2.6D **¶97vii3386**
ADH VII 22 22 40 31.4 **38.57N** **26.72W** **2.3**D **¶97vii3442**
ADH VII 22 22 46 31.6 **38.32N** **26.69W** **2.3**D **¶97vii3443**
ISC VII 23 13 54 07±7.3 **38.1N**±.68 **26.9W**±.79 **0** **8 1-1**
ADH VII 23 13 54 11.1 38.23N 26.88W 2.5D **¶97vii3536**
ISC Poorly determined
ADH VII 23 19 56 18.9 **38.14N** **26.99W** **2.5**D **¶97vii3572**
ISC VII 24 01 03 46±3.1 **38.2N**±.50 **26.8W**±.55 **0** **8 1-1**
ADH VII 24 01 03 49.1 38.34N 26.79W 2.6D **¶97vii3596**
ADH VII 24 12 36 33.6 **38.37N** **26.79W** **2.2**D **¶97vii3668**
ADH VII 24 21 40 46.3 **38.44N** **26.86W** **2.0**D **¶97vii3726**
ADH VII 24 21 49 05.6 **38.67N** **26.82W** **2.8**D **¶97vii3728**
ADH VII 25 12 23 52.3 **37.75N** **25.29W** **1.4**D **¶97vii3826**
ADH VII 25 21 13 46.7 **37.73N** **25.27W** **1.5**D **¶97vii3881**
ISC VII 27 05 03 26±9.7 **37.5N**±.53 **25.3W**±.18 **0** **8 0-0**
ADH VII 27 05 03 26.9 37.56N 25.32W 2.1D **¶97vii4059**
ADH VII 29 13 23 50.0 **38.60N** **28.68W** **¶97vii4435**
ADH VII 30 06 14 45.5 **38.68N** **28.00W** **¶97vii4541**
ADH VII 30 08 53 36.8 **37.83N** **25.51W** **1.6**D **¶97vii4561**
ADH VII 30 16 00 08.8 **38.52N** **26.84W** **2.5**D **¶97vii4599**
ADH VII 31 05 46 25.0 **38.44N** **28.70W** **2.6**D **¶97vii4683**
ADH VII 31 17 11 44.4 **38.62N** **29.00W** **2.8**D **¶97vii4766**
ISC VIII 01 06 12 12±1.4 **38.5N**±.46 **26.7W**±.35 **0** **13 0-2**
ADH VIII 01 06 12 14.2 38.38N 27.04W 3.0D **¶97viii0032**
ADH VIII 01 06 31 37.4 **38.50N** **26.82W** **2.2**D **¶97viii0034**
ISC VIII 01 10 27 21.0±.97 **38.15N**±.081 **27.05W**±.085 **0** **10 1-1**
ADH VIII 01 10 27 25.1 38.35N 26.99W 2.8D **¶97viii0050**
ISC VIII 01 12 38 18.0±.91 **38.5N**±.50 **26.9W**±.23 **29**±29 **18 0-1**
ADH VIII 01 12 38 19.4 38.35N 27.00W 3.3D **¶97viii0065**
ADH VIII 01 21 51 03.8 **38.75N** **26.89W** **2.5**D **¶97viii0121**
ISC VIII 02 00 13 01.5±.70 **38.3N**±.17 **26.6W**±.14 **0** **18 1-2**
ADH VIII 02 00 13 04.0 38.25N 26.78W 2.8D **¶97viii0139**
ADH VIII 02 03 20 23.6 **37.65N** **25.09W** **¶97viii0163**
ADH VIII 02 12 25 23.1 **38.81N** **29.17W** **¶97viii0214**
ISC VIII 03 15 40 03±1.3 **38.0N**±.13 **26.9W**±.12 **0** **15 1-1**
ADH VIII 03 15 40 07.7 38.21N 26.77W 3.3D **¶97viii0379**
ISC VIII 04 23 34 46±1.0 **38.3N**±.26 **26.7W**±.15 **32**±17 **20 1-2**
ADH VIII 04 23 34 47.4 38.23N 26.75W 3.0D **¶97viii0577**
ISC VIII 05 04 25 17±2.4 **38.5N**±.41 **26.9W**±.22 **35**±43 **10 0-1**
ADH VIII 05 04 25 18.6 38.39N 26.97W 3.0D **¶97viii0616**
ADH VIII 06 06 28 58.5 **37.57N** **25.34W** **1.9**D **¶97viii0764**
ADH VIII 06 08 59 52.1 **38.47N** **28.38W** **11** **2.2**D **¶97viii0777**
ADH VIII 07 02 04 50.5 **38.27N** **26.78W** **2.2**D **¶97viii0870**

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ADH	**VIII 07 03 47 52.7**	**37.56N**	**25.31W**		**2.2D**		**¶97viii0880**
ADH	**VIII 07 05 55 27.0**	**38.27N**	**26.75W**		**2.2D**		**¶97viii0894**
ISC	**VIII 07 06 28 51.4±.58**	**38.10N±.095**	**26.82W±.070**	**0**		**19**	**1-2**
ADH	VIII 07 06 28 55.2	38.26N	26.77W		3.7D		**¶97viii0898**
ADH	Felt on Terceira I=III MM at Porto Judeu						
ADH	**VIII 08 15 04 37.8**	**37.92N**	**26.19W**		**2.5D**		**¶97viii1126**
ADH	**VIII 09 08 50 51.5**	**38.74N**	**29.25W**		**3.2D**		**¶97viii1227**
ADH	**VIII 10 20 35 56.5**	**37.25N**	**25.72W**		**2.5D**		**¶97viii1456**
ADH	**VIII 11 02 12 49.9**	**38.32N**	**26.70W**		**2.5D**		**¶97viii1493**
ADH	**VIII 11 05 11 03.6**	**38.41N**	**27.03W**		**2.7D**		**¶97viii1506**
ISC	**VIII 12 10 28 21±12**	**38.5N±.41**	**27.0W±.73**	**0**		**7**	**0-1**
ADH	VIII 12 10 28 20.5	38.43N	27.01W		2.4D		**¶97viii1722**
ISC	Poorly determined						
ISC	**VIII 12 18 01 20.1±.66**	**38.21N±.078**	**27.08W±.072**	**0**		**18**	**0-2**
ADH	VIII 12 18 01 22.9	38.41N	27.01W		3.4D		**¶97viii1785**
ISC	**VIII 12 21 16 10±1.2**	**38.3N±.33**	**26.8W±.29**	**21±20**		**14**	**0-1**
ADH	VIII 12 21 16 11.1	38.31N	26.84W		2.9D		**¶97viii1808**
ADH	**VIII 13 06 29 47.2**	**38.41N**	**27.00W**		**2.9D**		**¶97viii1862**
ADH	**VIII 14 22 39 25.4**	**38.41N**	**27.00W**				**¶97viii2124**
ISC	**VIII 15 10 54 56±10**	**38.8N±.50**	**28.7W±.44**	**0**		**4**	**0-0**
ADH	VIII 15 10 54 57.2	38.77N	28.65W		3.0D		**¶97viii2207**
ISC	Poorly determined						
ISC	**VIII 15 10 56 22±10**	**38.8N±.49**	**28.7W±.46**	**0**		**4**	**0-0**
ADH	VIII 15 10 56 22.4	38.78N	28.70W		3.1D		**¶97viii2208**
ISC	Poorly determined						
ISC	**VIII 17 00 34 38.1±.75**	**38.32N±.099**	**27.05W±.070**	**16±13**		**18**	**0-2**
ADH	VIII 17 00 34 40.9	38.41N	27.05W		3.5D		**¶97viii2443**
ADH	**VIII 18 23 57 41.4**	**38.81N**	**26.81W**		**2.2D**		**¶97viii2732**
ISC	**VIII 19 11 44 47±5.2**	**38.1N±.47**	**26.9W±.57**	**0**		**11**	**1-1**
ADH	VIII 19 11 44 50.4	38.20N	26.98W		2.8D		**¶97viii2802**
ADH	**VIII 20 05 26 08.7**	**38.76N**	**26.88W**		**2.6D**		**¶97viii2915**
ISC	**VIII 21 01 02 42±1.4**	**37.8N±.16**	**25.7W±.11**	**0**		**5**	**0-0**
ADH	VIII 21 01 02 40.8	37.83N	25.65W		2.0D		**¶97viii3038**
ISC	Poorly determined						
ADH	**VIII 21 05 51 01.8**	**38.83N**	**28.93W**		**2.3D**		**¶97viii3061**
ADH	**VIII 21 11 33 08.8**	**38.36N**	**27.85W**				**¶97viii3091**
ADH	**VIII 21 22 13 42.6**	**38.37N**	**26.94W**		**2.4D**		**¶97viii3148**
ADH	**VIII 23 01 43 54.4**	**38.81N**	**28.92W**		**3.0D**		**¶97viii3321**
ISC	**VIII 23 04 39 41±12**	**37.6N±.69**	**25.3W±.17**	**0**		**5**	**0-0**
ADH	VIII 23 04 39 40.0	37.54N	25.30W		2.2D		**¶97viii3340**
ISC	Poorly determined						
ISC	**VIII 24 17 42 06±13**	**37.4N±.71**	**25.3W±.21**	**0**		**7**	**0-0**
ADH	VIII 24 17 42 08.0	37.55N	25.34W		2.1D		**¶97viii3569**
ISC	**VIII 25 20 44 10±1.6**	**37.8N±.27**	**25.4W±.15**	**8**		**9**	**0-0**
ADH	VIII 25 20 44 09.7	37.77N	25.46W	8	2.4D		**¶97viii3739**
ADH	**VIII 25 21 03 53.6**	**37.77N**	**25.43W**		**1.8D**		**¶97viii3742**
ISC	**VIII 27 18 50 10.5±.72**	**38.27N±.034**	**26.62W±.026**	**3±4.7**	**4.8b,4.2s**	**211**	**1-158**
BJI	VIII 27 18 50 09.0	38.20N	26.50W	10	5.1b,5.3s		**¶97viii4024**
NEIC	VIII 27 18 50 11.2	38.20N	26.55W	10	4.9b,4.2s		
EIDC	VIII 27 18 50 11.7	38.3N	26.7W	0	4.5b,4.2s		
ADH	VIII 27 18 50 13.7	38.43N	26.73W		4.4D		
ADH	Felt on Terceira and on Sao Miguel I=III MM						
ADH	**VIII 28 01 40 53.8**	**37.75N**	**25.51W**		**1.7D**		**¶97viii4070**
ADH	**VIII 28 06 08 03.5**	**38.96N**	**28.65W**		**2.9D**		**¶97viii4094**
ISC	**VIII 29 02 50 33.0±.77**	**38.03N±.091**	**26.85W±.074**	**0**		**12**	**1-2**
ADH	VIII 29 02 50 37.2	38.24N	26.75W		3.0D		**¶97viii4224**
ADH	Felt on Terceira I=II MM and on Sao Miguel at Sao Roque						
ADH	**VIII 30 21 24 01.0**	**38.12N**	**26.79W**		**2.7D**		**¶97viii4535**
ADH	**IX 01 02 07 09.7**	**38.11N**	**26.41W**		**2.7D**		**¶97ix0019**
ADH	**IX 01 12 53 53.6**	**38.13N**	**26.84W**		**2.6D**		**¶97ix0106**
ADH	**IX 02 12 08 01.8**	**38.46N**	**26.92W**		**2.2D**		**¶97ix0274**
ADH	**IX 02 15 27 40.6**	**38.24N**	**26.72W**		**2.4D**		**¶97ix0294**
ADH	**IX 03 02 35 46.3**	**38.26N**	**26.86W**		**1.8D**		**¶97ix0368**
ADH	**IX 03 22 59 17.2**	**38.40N**	**26.99W**		**2.1D**		**¶97ix0507**
ADH	**IX 04 01 01 33.5**	**38.13N**	**26.92W**		**2.8D**		**¶97ix0523**
ADH	**IX 04 19 16 24.6**	**37.78N**	**25.39W**		**1.3D**		**¶97ix0624**
ISC	**IX 04 22 20 56±1.2**	**38.3N±.50**	**26.4W±.43**	**0**		**10**	**1-1**
ADH	IX 04 22 20 55.6	38.10N	26.89W		2.6D		**¶97ix0642**
ADH	**IX 05 01 00 03.2**	**38.26N**	**26.75W**		**2.4D**		**¶97ix0663**
ADH	**IX 05 02 59 14.9**	**38.13N**	**26.79W**		**2.3D**		**¶97ix0675**
ADH	**IX 05 23 40 35.8**	**38.58N**	**26.97W**		**2.5D**		**¶97ix0815**
ISC	**IX 06 07 10 03.4±.68**	**38.4N±.14**	**26.8W±.11**	**0**		**11**	**0-1**
ADH	IX 06 07 10 06.2	38.52N	26.81W		2.9D		**¶97ix0874**
ADH	**IX 06 07 11 40.9**	**38.34N**	**26.83W**		**2.5D**		**¶97ix0875**
ISC	**IX 07 10 11 05±15**	**37.9N±.69**	**25.2W±.57**	**0**		**6**	**0-0**
ADH	IX 07 10 11 04.4	37.90N	25.05W		2.3D		**¶97ix1045**
ADH	**IX 08 04 47 18.9**	**38.72N**	**26.75W**		**3.0D**		**¶97ix1174**
ADH	**IX 09 02 19 38.3**	**38.22N**	**27.17W**		**2.8D**		**¶97ix1313**
ADH	**IX 09 03 21 40.2**	**38.97N**	**29.44W**				**¶97ix1316**
ADH	**IX 09 21 31 21.9**	**38.86N**	**27.75W**		**1.9D**		**¶97ix1442**
ISC	**IX 11 01 46 26±6.1**	**37.6N±.38**	**25.4W±.12**	**0**		**5**	**0-0**
ADH	IX 11 01 46 25.3	37.62N	25.35W		2.0D		**¶97ix1611**
ADH	**IX 12 15 41 05.6**	**38.21N**	**26.87W**		**2.6D**		**¶97ix1835**
ADH	**IX 14 05 28 56.8**	**38.31N**	**26.93W**		**2.7D**		**¶97ix2074**
ADH	**IX 15 14 55 17.6**	**38.17N**	**26.87W**		**2.6D**		**¶97ix2255**
ADH	**IX 17 02 29 14.0**	**38.14N**	**26.88W**		**2.7D**		**¶97ix2457**
ADH	**IX 17 07 09 12.2**	**39.61N**	**29.79W**		**3.4D**		**¶97ix2481**
ADH	**IX 17 10 56 35.5**	**39.50N**	**29.85W**		**3.4D**		**¶97ix2503**
ADH	**IX 17 12 04 07.5**	**38.14N**	**25.77W**		**2.3D**		**¶97ix2507**
ADH	**IX 18 03 03 07.2**	**39.56N**	**29.72W**		**3.1D**		**¶97ix2602**
ISC	**IX 18 19 11 41±1.1**	**38.0N±.16**	**26.5W±.12**	**0**		**12**	**1-2**
ADH	IX 18 19 11 45.1	38.08N	26.40W		2.9D		**¶97ix2700**
ADH	**IX 18 19 48 22.4**	**39.45N**	**29.77W**		**3.4D**		**¶97ix2705**
ADH	**IX 20 01 17 10.8**	**38.60N**	**26.57W**		**2.4D**		**¶97ix2879**
ADH	**IX 21 17 24 19.9**	**38.47N**	**26.75W**		**2.2D**		**¶97ix3135**
ADH	**IX 21 18 24 30.1**	**37.91N**	**26.17W**		**3.2D**		**¶97ix3143**
ADH	**IX 21 23 03 57.6**	**37.55N**	**25.19W**		**2.2D**		**¶97ix3179**
ADH	**IX 22 17 54 59.4**	**38.57N**	**28.53W**		**1.9D**		**¶97ix3309**
ISC	**IX 24 02 55 10±1.1**	**37.8N±.10**	**25.47W±.082**	**0**		**5**	**0-0**
ADH	IX 24 02 55 08.6	37.78N	25.47W				**¶97ix3515**
ISC	**IX 24 14 46 56±12**	**38.5N±.35**	**27.0W±.72**	**0**		**5**	**0-1**
ADH	IX 24 14 46 55.6	38.39N	27.10W		2.4D		**¶97ix3592**
ISC	**IX 24 21 06 38±1.7**	**38.7N±.21**	**28.5W±.17**	**18**		**4**	**0-0**
ADH	IX 24 21 06 39.4	38.64N	28.47W	18	2.2D		**¶97ix3636**
ISC	Poorly determined						
ADH	**IX 24 22 53 55.7**	**38.55N**	**26.73W**	**1**	**2.1D**		**¶97ix3644**
ISC	**IX 25 03 14 42.9±.96**	**37.9N±.12**	**26.63W±.077**	**0**		**14**	**1-2**
ADH	IX 25 03 14 46.9	37.93N	26.56W		3.2D		**¶97ix3671**
ADH	**IX 25 08 22 54.0**	**38.47N**	**26.85W**		**2.3D**		**¶97ix3708**
ISC	**IX 26 14 03 12±3.5**	**37.8N±.14**	**25.5W±.11**	**2±36**		**5**	**0-0**
ADH	IX 26 14 03 11.0	37.76N	25.46W	5	2.2D		**¶97ix4031**
ISC	Poorly determined						
ADH	**IX 26 23 39 07.8**	**38.36N**	**27.09W**		**2.6D**		**¶97ix4183**
ADH	**IX 27 07 47 46.0**	**37.90N**	**25.64W**		**2.7D**		**¶97ix4292**
ADH	**IX 28 11 40 03.2**	**38.35N**	**26.84W**		**3.0D**		**¶97ix4633**
ADH	**IX 28 16 36 17.2**	**38.10N**	**26.38W**		**2.6D**		**¶97ix4703**
ADH	**IX 28 23 57 15.3**	**38.88N**	**27.97W**		**2.5D**		**¶97ix4799**
ADH	**IX 29 03 25 31.0**	**38.42N**	**26.79W**		**2.8D**		**¶97ix4854**
ADH	**IX 29 09 58 35.5**	**38.28N**	**27.18W**		**2.8D**		**¶97ix4923**
ADH	**IX 29 17 05 28.0**	**38.54N**	**28.56W**		**2.8D**		**¶97ix4986**
ADH	**IX 30 01 54 41.2**	**38.51N**	**28.58W**		**2.5D**		**¶97ix5096**
ADH	**IX 30 03 40 58.8**	**38.52N**	**28.56W**		**2.5D**		**¶97ix5114**
ADH	**X 01 17 40 50.5**	**38.59N**	**28.52W**		**2.3D**		**¶97x0128**
ISC	**X 02 09 43 49±1.4**	**37.8N±.20**	**26.5W±.11**	**0**		**15**	**1-2**
ADH	X 02 09 43 53.6	37.95N	26.38W		2.7D		**¶97x0252**
ADH	**X 03 00 57 05.1**	**38.16N**	**26.91W**		**2.6D**		**¶97x0364**
ISC	**X 03 04 24 21±3.3**	**38.3N±.37**	**26.9W±.47**	**0**		**8**	**0-1**
ADH	X 03 04 24 23.7	38.36N	27.08W		2.7D		**¶97x0384**
ISC	**X 03 04 32 04.8±.59**	**38.18N±.064**	**27.10W±.061**	**0**		**19**	**0-2**
ADH	X 03 04 32 09.1	38.41N	27.05W		3.8D		**¶97x0386**
ADH	Felt on Terceira, I=III MM at Angra do Heroismo, Ribeirinha, Terra Cha, Feteira, Porto Judeu, Sao Sebastiao, Sao Mateus, Sao Bartolomeu, Cinco Ribeiras, Santa Barbara, Doze Ribeiras, Serreta, Altares and Agualva						
ISC	**X 03 04 36 06±3.3**	**38.3N±.48**	**26.9W±.57**	**0**		**5**	**0-1**
ADH	X 03 04 36 08.6	38.40N	27.02W		2.1D		**¶97x0387**
ISC	Poorly determined						
ISC	**X 03 04 39 48±3.1**	**38.3N±.40**	**26.9W±.48**	**0**		**9**	**0-1**
ADH	X 03 04 39 50.7	38.39N	27.03W		2.2D		**¶97x0389**
ADH	**X 03 04 55 34.9**	**38.36N**	**27.06W**		**2.6D**		**¶97x0393**
ISC	**X 03 04 59 34±2.5**	**38.3N±.40**	**26.9W±.45**	**0**		**8**	**0-1**
ADH	X 03 04 59 36.1	38.35N	27.07W		2.5D		**¶97x0394**
ISC	**X 03 05 18 36.7±.66**	**38.16N±.066**	**27.12W±.063**	**0**		**18**	**1-2**
ADH	X 03 05 18 41.1	38.37N	27.07W		3.4D		**¶97x0398**
ADH	Felt on Terceira, I=III MM at Sao Sebastiao, II−III at Angra do Heroismo, Ribeirinha, Terra Cha, Feteira, Porto Judeu, Sao Mateus, Sao Bartolomeu, Cinco Ribeiras, Santa Barbara and Agualva, II at Doze Ribeiras, Serreta and Altares						
ISC	**X 03 06 13 09±1.3**	**38.6N±.12**	**28.50W±.095**	**0**		**4**	**0-0**
ADH	X 03 06 13 08.6	38.50N	28.51W		2.3D		**¶97x0405**
ISC	Poorly determined						
ADH	**X 03 07 09 54.3**	**38.36N**	**27.09W**		**3.2D**		**¶97x0415**
ISC	**X 03 08 58 32.0±.55**	**38.20N±.062**	**27.09W±.056**	**0**		**19**	**0-2**
ADH	X 03 08 58 36.3	38.40N	27.06W		3.7D		**¶97x0432**
ADH	Felt on Terceira, I=III MM at Angra do Heroismo, Ribeirinha, Terra Cha, Porto Judeu and Sao Sebastiao, II−III at Feteira, Sao Mateus, Sao Bartolomeu, Cinco Ribeiras, Santa Barbara, Doze Ribeiras, Serreta, Altares and Agualva						
ADH	**X 03 09 40 43.8**	**38.36N**	**27.12W**		**2.2D**		**¶97x0441**
ADH	**X 03 09 49 43.2**	**38.42N**	**27.01W**		**2.3D**		**¶97x0443**
ISC	**X 03 10 02 59±1.1**	**38.3N±.12**	**27.0W±.14**	**0**		**13**	**0-2**
ADH	X 03 10 03 01.8	38.44N	27.03W		2.9D		**¶97x0445**
ISC	**X 03 12 11 47±1.4**	**38.4N±.21**	**26.8W±.20**	**0**		**13**	**0-1**
ADH	X 03 12 11 49.7	38.39N	27.07W		3.0D		**¶97x0458**
ADH	**X 03 15 50 04.5**	**38.40N**	**26.93W**		**2.3D**		**¶97x0488**
ADH	**X 04 02 53 54.4**	**38.46N**	**27.04W**		**2.6D**		**¶97x0565**
ADH	**X 04 05 07 24.3**	**38.36N**	**26.90W**		**2.3D**		**¶97x0586**
ISC	**X 04 09 16 05±1.3**	**38.6N±.12**	**28.50W±.095**	**0**		**4**	**0-0**
ADH	X 04 09 16 05.1	38.54N	28.53W		2.6D		**¶97x0618**
ISC	Poorly determined						
ADH	**X 04 09 49 31.3**	**38.51N**	**28.52W**		**2.3D**		**¶97x0620**
ADH	**X 05 18 26 14.0**	**38.48N**	**28.52W**		**2.3D**		**¶97x0906**
ADH	**X 06 13 03 08.7**	**38.39N**	**26.74W**		**2.4D**		**¶97x1052**
ISC	**X 06 14 35 17±1.2**	**38.4N±.12**	**26.9W±.13**	**0**		**9**	**0-1**
ADH	X 06 14 35 19.1	38.40N	27.02W		2.7D		**¶97x1062**
ADH	**X 06 14 57 27.4**	**39.15N**	**28.48W**		**2.8D**		**¶97x1065**
ADH	**X 07 00 03 51.6**	**37.39N**	**25.10W**		**2.4D**		**¶97x1141**
ADH	**X 09 10 45 04.0**	**38.74N**	**28.98W**		**3.0D**		**¶97x1573**
ISC	**X 09 18 14 36.9±.60**	**38.08N±.076**	**26.92W±.063**	**0**		**20**	**1-1**
ADH	X 09 18 14 40.9	38.30N	26.84W		3.2D		**¶97x1617**
ADH	Felt on Terceira, I=II−III MM at Praia da Victoria, II at Agualva, Angra do Heroismo and Porto Judeu						
ISC	**X 09 18 16 16±1.0**	**38.4N±.63**	**26.6W±.52**	**0**		**15**	**1-2**
ADH	X 09 18 16 18.2	38.34N	26.82W		3.4D		**¶97x1618**
ADH	**X 09 18 26 48.4**	**38.42N**	**26.93W**		**2.8D**		**¶97x1620**
ADH	**X 09 21 16 16.1**	**38.41N**	**26.74W**		**2.2D**		**¶97x1643**
ADH	**X 09 22 04 34.8**	**38.38N**	**26.75W**		**1.6D**		**¶97x1648**
ISC	**X 09 22 07 31.8±.90**	**38.4N±.82**	**26.6W±.76**	**0**		**10**	**1-1**
ADH	X 09 22 07 34.3	38.49N	26.64W		2.9D		**¶97x1649**
ADH	**X 10 10 47 43.0**	**38.49N**	**26.79W**		**2.9D**		**¶97x1740**
ADH	**X 10 12 58 02.5**	**37.76N**	**25.55W**				**¶97x1755**
ADH	**X 11 00 04 21.4**	**38.38N**	**26.89W**		**2.2D**		**¶97x1817**
ADH	**X 11 03 08 47.3**	**38.40N**	**26.80W**		**2.2D**		**¶97x1835**
ADH	**X 11 06 32 25.1**	**38.36N**	**26.92W**		**2.3D**		**¶97x1859**
ADH	**X 11 10 22 05.0**	**38.55N**	**26.82W**		**2.6D**		**¶97x1877**
ADH	**X 11 10 22 56.8**	**38.48N**	**26.95W**		**2.6D**		**¶97x1878**
ISC	**X 11 11 02 39±3.0**	**38.3N±.37**	**26.9W±.42**	**10±32**		**18**	**0-2**
ADH	X 11 11 02 42.0	38.40N	27.02W		3.4D		**¶97x1883**
ADH	**X 11 11 24 17.5**	**38.38N**	**27.03W**		**2.7D**		**¶97x1888**
ADH	**X 11 12 29 20.4**	**38.37N**	**27.06W**		**2.5D**		**¶97x1890**
ISC	**X 11 12 30 27.9±.58**	**38.17N±.064**	**27.10W±.057**	**0**		**18**	**0-2**
ADH	X 11 12 30 32.3	38.38N	27.06W		3.4D		**¶97x1891**
ADH	Felt I=II MM on Terceira						
ADH	**X 11 12 35 50.8**	**38.38N**	**26.92W**				**¶97x1893**
ISC	**X 11 12 36 15±6.5**	**38.7N±.65**	**26.3W±.45**	**0**		**7**	**1-2**
ADH	X 11 12 36 20.2	38.38N	26.66W		2.5D		**¶97x1895**
ISC	**X 11 16 30 11±3.0**	**38.4N±.34**	**27.0W±.45**	**0**		**6**	**0-1**
ADH	X 11 16 30 12.4	38.39N	27.06W		2.3D		**¶97x1911**
ISC	Poorly determined						
ADH	**X 12 04 16 23.6**	**38.40N**	**26.81W**		**2.4D**		**¶97x1985**
ADH	**X 12 05 14 14.0**	**38.33N**	**26.82W**		**2.1D**		**¶97x1993**
ADH	**X 13 06 20 21.9**	**38.27N**	**26.85W**		**3.0D**		**¶97x2169**
ADH	**X 13 12 40 16.5**	**38.46N**	**26.78W**		**2.7D**		**¶97x2218**
ADH	**X 13 13 05 26.1**	**38.33N**	**26.91W**		**2.4D**		**¶97x2227**
ISC	**X 13 13 15 02±1.2**	**38.7N±.11**	**27.18W±.081**	**0**		**6**	**0-1**
ADH	X 13 13 14 55.7	38.35N	26.87W		2.6D		**¶97x2229**
ADH	**X 14 01 48 35.7**	**38.62N**	**29.52W**		**3.3D**		**¶97x2321**
ADH	**X 14 02 32 39.1**	**38.38N**	**26.94W**		**2.4D**		**¶97x2323**
ISC	**X 14 03 01 41±1.5**	**38.1N±.12**	**27.1W±.14**	**0**		**13**	**1-2**
ADH	X 14 03 01 45.0	38.35N	27.02W		2.8D		**¶97x2326**
ADH	**X 14 15 44 54.9**	**38.65N**	**29.65W**		**2.9D**		**¶97x2431**

ISC X 14 21 34 20±3.8 **38.3N**±.47 **26.9W**±.56 **0** **4 0-1**
ADH X 14 21 34 23.1 38.37N 26.96W 2.3D **¶97x2498**
ISC Poorly determined
ADH X 14 21 47 40.6 38.37N 26.95W 2.2D ¶97x2504
ISC X 16 04 14 37±1.0 **37.8N**±.18 **26.22W**±.068 **5** **19 0-2**
ADH X 16 04 14 40.5 37.76N 26.09W 5 3.5D **¶97x2783**
ADH Felt on Sao Miguel, I=III–IV MM at Mosteiros, Bretanha, Candelaria, Ginetes and Varzea, III at Sete Cidades
ADH X 16 04 33 56.0 37.69N 26.08W 2.4D ¶97x2785
ADH X 16 06 56 02.7 38.02N 26.04W 2.3D ¶97x2804
ADH X 17 20 12 25.1 37.92N 25.12W 2.1D ¶97x3054
ISC X 18 23 31 02±1.4 **37.8N**±.21 **26.21W**±.091 **8** **17 0-2**
ADH X 18 23 31 05.4 37.80N 26.08W 8 3.0D **¶97x3254**
ADH Felt on Sao Miguel, I=II–III MM at Candelaria
ISC X 21 01 28 59.5±.83 **38.3N**±.13 **26.9W**±.14 **0** **10 0-1**
ADH X 21 01 29 01.9 38.38N 27.01W 2.9D **¶97x3584**
ADH X 21 20 21 15.1 37.70N 25.95W 2.1D ¶97x3698
ADH X 21 21 05 41.6 38.93N 29.50W 3.0D ¶97x3701
ADH X 21 22 50 14.1 37.72N 25.86W 2.2D ¶97x3712
ADH X 21 22 51 30.4 37.72N 25.85W 2.3D ¶97x3713
ADH X 24 23 57 55.4 38.45N 28.55W 2.3D ¶97x4239
ADH X 25 01 26 19.9 38.49N 28.54W 2.5D ¶97x4248
ISC X 25 01 40 53±1.3 **38.6N**±.12 **28.51W**±.092 **0** **4 0-0**
ADH X 25 01 40 51.9 38.49N 28.53W 2.3D **¶97x4253**
ISC Poorly determined
ADH X 25 03 39 50.4 38.48N 28.56W 2.4D ¶97x4265
ADH X 25 04 13 51.3 38.49N 28.56W 2.3D ¶97x4270
ADH X 25 04 16 12.4 38.48N 28.55W 2.5D ¶97x4272
ISC X 25 18 25 23±1.1 **38.2N**±.18 **26.7W**±.17 **0** **14 1-1**
ADH X 25 18 25 25.6 38.25N 26.88W 2.8D **¶97x4352**
ADH X 25 22 56 43.0 38.72N 28.88W 3.1D ¶97x4381
ADH X 25 23 03 43.1 38.70N 28.35W ¶97x4384
ADH X 26 09 48 11.4 38.77N 28.93W ¶97x4446
ADH X 26 18 02 46.4 38.49N 29.48W 3.1D ¶97x4505
ADH X 26 19 38 40.6 38.47N 28.55W 2.5D ¶97x4516
ISC X 28 02 30 10±3.5 **38.3N**±.31 **30.5W**±.32 **0** **13 1-4**
ADH X 28 02 30 17.5 38.59N 30.38W 3.9D **¶97x4687**
ADH X 29 12 14 42.8 38.51N 28.52W 2.1D ¶97x4907
ADH X 29 16 38 43.8 38.48N 28.56W 2.3D ¶97x4930
ADH X 30 01 34 35.1 38.54N 28.54W 2.3D ¶97x4973
ISC X 30 13 57 26±9.7 **38.6N**±.45 **27.1W**±.45 **0** **6 0-1**
ADH X 30 13 57 21.1 38.33N 26.88W 2.5D **¶97x5049**
ISC Poorly determined
ADH XI 04 03 14 38.1 38.63N 28.95W 2.8D ¶97xi0563
ADH XI 06 00 30 04.0 38.49N 28.56W 2.3D ¶97xi0889
ADH XI 06 07 43 25.9 38.37N 26.99W 2.8D ¶97xi0942
ADH XI 06 07 47 32.4 38.37N 26.98W 2.6D ¶97xi0943
ADH XI 09 23 49 29.8 38.58N 28.70W ¶97xi1527
ADH XI 10 00 46 56.3 37.58N 25.34W ¶97xi1533
ADH XI 10 08 40 24.1 38.15N 26.82W 2.5D ¶97xi1585
ADH XI 10 17 33 39.8 38.56N 28.95W ¶97xi1650
ADH XI 11 00 35 57.2 37.54N 25.21W 1.9D ¶97xi1698
ADH XI 11 11 11 17.3 38.35N 26.81W 2.4D ¶97xi1775
ADH XI 11 17 25 42.1 38.14N 26.95W 2.9D ¶97xi1834
ADH XI 11 20 23 29.2 38.22N 26.89W 2.8D ¶97xi1865
ADH XI 11 21 11 37.4 37.61N 26.0W 2.5D ¶97xi1873
ADH XI 11 21 43 24.2 38.20N 26.89W 2.6D ¶97xi1878
ADH XI 12 03 26 22.1 37.74N 25.42W 1.5D ¶97xi1925
ISC XI 13 00 13 36±6.0 **38.5N**±.68 **26.1W**±.63 **0** **11 1-2**
ADH XI 13 00 13 39.5 38.09N 26.44W 2.7D **¶97xi2053**
ISC XI 13 00 42 17±4.7 **38.4N**±.67 **26.2W**±.62 **0** **6 1-1**
ADH XI 13 00 42 19.6 38.29N 26.26W 2.5D **¶97xi2056**
ISC XI 17 00 59 28.1±.70 **38.14N**±.093 **26.13W**±.068 **16**±7.7 **3.8b** **26 1-71**
ADH XI 17 00 59 29.7 37.85N 26.24W 3.7D **¶97xi2720**
NEIC XI 17 00 59 30.3 38.09N 25.93W 33
EIDC XI 17 00 59 31.6 38.2N 26.0W 28 3.6b
ADH Felt I=III MM on Sao Miguel (w), II on Terceira at Angra do Heroismo
NEIC Less reliable solution.
ADH XI 17 01 46 54.1 37.90N 26.18W 3.2D ¶97xi2726
ADH XI 17 18 45 29.3 38.78N 28.91W 2.4D ¶97xi2847
ISC XI 19 04 07 38±1.4 **38.2N**±.31 **26.0W**±.31 **0** **9 1-1**
ADH XI 19 04 07 40.2 37.80N 26.20W 2.7D **¶97xi3133**
ISC XI 20 19 17 10.1±.89 **37.9N**±.25 **26.2W**±.14 **32**±12 **15 0-2**
ADH XI 20 19 17 11.7 37.92N 26.19W 3.2D **¶97xi3518**
ISC XI 20 19 30 37±1.6 **37.8N**±.22 **26.4W**±.12 **0** **13 1-2**
ADH XI 20 19 30 40.6 37.90N 26.21W 2.9D **¶97xi3522**
ISC XI 24 19 08 42.9±.84 **38.98N**±.073 **28.20W**±.070 **19**±6.9 **4.2b**,3.8s **20 0-66**
NEIC XI 24 19 08 41.6 38.98N 28.07W 10 4.4b **¶97xi4365**
ADH XI 24 19 08 42.3 39.14N 28.36W 3.4D
EIDC XI 24 19 08 43.1 39.1N 27.9W 0 4.2b,3.8s
NEIC Less reliable solution.
ADH Felt I=II–III MM on Graciosa
ADH XI 24 20 16 51.7 39.14N 28.16W 2.7D ¶97xi4380
ADH XI 28 04 42 08.1 38.64N 28.56W 2.8D ¶97xi5008
ADH XI 28 06 01 46.1 38.21N 26.88W 2.6D ¶97xi5022
ISC XII 07 22 50 12.6±.95 **38.1N**±.13 **26.7W**±.11 **0** **16 1-2**
ADH XII 07 22 50 15.8 38.24N 26.65W 2.9D **¶97xii1803**
ADH XII 09 04 47 41.9 38.44N 26.97W 2.3D ¶97xii2103
ADH XII 10 20 10 31.8 38.39N 26.78W 1.9D ¶97xii2419
ADH XII 11 00 20 13.3 38.40N 26.91W 2.2D ¶97xii2449
ADH XII 11 19 47 37.3 38.35N 26.82W 2.3D ¶97xii2632
ADH XII 11 22 16 09.4 38.77N 29.03W 2.9D ¶97xii2647
ADH XII 18 14 36 34.5 37.81N 25.46W 1.8D ¶97xii3781
ADH XII 22 07 33 34.2 38.81N 28.96W 2.9D ¶97xii4379
ADH XII 25 18 47 01.5 38.57N 29.65W 3.3D ¶97xii4973
ISC XII 26 12 52 50.1±.98 **38.1N**±.11 **27.1W**±.10 **0** **12 1-2**
ADH XII 26 12 52 54.2 38.34N 27.00W 3.6D **¶97xii5119**
ADH XII 26 14 56 04.3 38.50N 29.60W 3.3D ¶97xii5153
ADH XII 27 19 25 26.3 38.68N 29.15W 3.1D ¶97xii5338
ADH XII 29 19 51 34 38.49N 28.40W 2.4D ¶97xii5627
ISC XII 29 23 23 40±1.0 **38.1N**±.10 **27.0W**±.10 **0** **11 1-1**
ADH XII 29 23 23 44.6 38.34N 26.98W 2.8D **¶97xii5654**
ADH XII 31 23 22 29.8 38.76N 27.23W 1.1D ¶97xii6002

(406) Central Mid-Atlantic Ridge.

ISC VII 04 14 41 04.1±.41 **0.95N**±.093 **27.93W**±.080 **10** **4.2b,4.3s** **27 14-88**
NEIC VII 04 14 41 04.0 0.94N 27.92W 10 4.6b,4.5s **¶97vii0575**
EIDC VII 04 14 41 07.7 0.9N 27.9W 21 4.0b,4.3s
NEIC Less reliable solution.
ISC VII 22 18 42 43±1.5 **4.5N**±.27 **32.6W**±.24 **10** **3.8b** **7 44-152**
NEIC VII 22 18 42 42.9 4.39N 32.54W 10 **¶97vii3413**
EIDC VII 22 18 42 44.0 4.5N 32.6W 0 3.8b
NEIC Poor solution.
ISC VII 22 19 10 35.4±.19 **4.65N**±.040 **32.69W**±.028 **10** **5.3b,5.0s** **353 14-163**
NEIC VII 22 19 10 35.0 4.62N 32.69W 10 5.4b,5.1s **¶97vii3417**
MOS VII 22 19 10 35.2 4.7N 32.7W 10 5.5b,4.8s
BJI VII 22 19 10 35.4 4.61N 32.69W 17 5.8s
EIDC VII 22 19 10 37.7 4.6N 32.7W 17 4.7b,5.0s
HRVD VII 22 19 10 41.0±.2 4.73N±.03 32.79W±.04 15
NEIC Mw5.4(HRV), Mw5.3(GS).
NEIC Moment tensor solution: s6, scale 10^{17}Nm; M_{rr}=0.92; $M_{\theta\theta}$=0.09; $M_{\phi\phi}$1.01; $M_{r\theta}$0.11; $M_{r\phi}$–0.37; $M_{\theta\phi}$–0.12. Depth 6km; Principal axes: T 1.10,Plg11°,Azm83°; N –0.10,Plg4°, Azm352°; P –0.99,Plg78°,Azm241°. Best double couple: $M_0$1.0×10^{17}Nm; NP1:ϕ_S178°,δ34°, λ–83°. NP2:ϕ_S349°,δ56°,λ–95°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c73; Mantle waves: s2,c4; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}=1.49±.03; $M_{\theta\theta}$0.21±.05; $M_{\phi\phi}$1.27±.05; $M_{r\theta}$0.29±.13; $M_{r\phi}$–0.43±.16; $M_{\theta\phi}$0.01±.03. Principal Axes: T 1.34,Plg9°,Azm88°; N 0.26,Plg9°,Azm357°; P –1.60,Plg77°,Azm223°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S188°,δ37°,λ–75°. NP2:ϕ_S350°,δ55°,λ–101°.
ISC VII 28 08 45 53.7±.56 **7.50N**±.087 **36.3W**±.12 **10** **4.0b** **16 16-92**
EIDC VII 28 08 45 53.0 7.5N 36.3W 0 4.0b **¶97vii4236**
NEIC VII 28 08 45 53.5 7.51N 36.36W 10 4.2b
NEIC Less reliable solution.
ISC VII 28 08 48 16.6±.55 **1.0S**±.14 **24.45W**±.070 **10** **4.2b**,3.7s **28 21-151**
NEIC VII 28 08 48 16.0 1.07S 24.47W 10 4.5b **¶97vii4238**
EIDC VII 28 08 48 16.3 1.0S 24.5W 0 4.2b,3.7s
NEIC Less reliable solution.
ISC VII 29 21 57 41±1.0 **0.1S**±.20 **18.1W**±.11 **10** **4.1b**,3.9s **15 14-144**
NEIC VII 29 21 57 40.4 0.10S 18.09W 10 4.5b **¶97vii4488**
EIDC VII 29 21 57 40.5 0.2S 18.1W 0 4.0s,3.9b
NEIC Less reliable solution.
ISC VII 30 13 06 35.3±.38 **5.62N**±.076 **32.85W**±.068 **10** **4.3b**,3.9s **39 15-152**
NEIC VII 30 13 06 35.0 5.57N 32.87W 10 4.4b,3.9s **¶97vii4585**
EIDC VII 30 13 06 35.2 5.5N 33.0W 0 4.2b
ISC VII 30 13 37 42.0±.39 **5.57N**±.087 **32.81W**±.065 **10** **4.3b,4.3s** **52 26-127**
NEIC VII 30 13 37 41.7 5.55N 32.83W 10 4.7b,4.4s **¶97vii4587**
EIDC VII 30 13 37 41.8 5.6N 32.9W 0 4.1b
ISC VIII 11 00 04 14.9±.81 **1.1N**±.23 **28.0W**±.13 **10** **4.0b**,3.4s **10 23-83**
EIDC VIII 11 00 04 15.0 1.0N 28.0W 0 3.6s,4.1b **¶97viii1478**
ISC VIII 12 23 58 46.1±.56 **0.8N**±.18 **28.0W**±.12 **10** **4.2b,4.1s** **14 14-77**
NEIC VIII 12 23 58 46.4 0.78N 27.93W 10 4.4b **¶97viii1827**
EIDC VIII 12 23 58 47.1 0.8N 27.9W 0 4.2b,4.2s
NEIC Less reliable solution.
ISC VIII 14 02 22 53.8±.76 **3.8N**±.17 **31.4W**±.13 **10** **3.7b,3.5s** **10 25-79**
EIDC VIII 14 02 22 53.3 3.9N 31.5W 0 3.7b,3.5s **¶97viii1993**
NEIC VIII 14 02 22 53.6 3.77N 31.45W 10
NEIC Single network solution.
ISC VIII 29 02 32 52.7±.89 **2.1N**±.19 **29.0W**±.16 **10** **4.0b** **8 25-86**
EIDC VIII 29 02 32 52.1 2.3N 29.1W 0 4.0b **¶97viii4222**
NEIC VIII 29 02 32 52.5 2.14N 29.08W 10 4.2b
NEIC Poor solution.
ISC IX 02 17 32 13±2.7 **1.2S**±.51 **24.4W**±.16 **10** **3.7b**,3.5s **10 21-150**
EIDC IX 02 17 32 19.4 1.1S 24.5W 42 3.5b,3.7s **¶97ix0305**
ISC IX 28 13 58 10.6±.42 **7.17N**±.082 **34.20W**±.069 **10** **4.5b,4.7s** **67 16-93**
NEIC IX 28 13 58 10.2 7.15N 34.27W 10 4.8b,4.6s **¶97ix4660**
EIDC IX 28 13 58 12.3 7.0N 34.5W 0 4.1b,4.7s
NEIC Less reliable solution.
EIDC IX 30 15 37 40.2 6.2N 33.4W 0 4.0s,3.7b **¶97ix5266**
ISC X 02 14 43 05.8±.81 **0.5S**±.16 **19.7W**±.10 **10** **4.1b** **16 16-147**
NEIC X 02 14 43 05.2 0.57S 19.61W 10 4.4b **¶97x0298**
EIDC X 02 14 43 06.0 0.5S 19.8W 0 4.0b,4.9L
NEIC Less reliable solution.
ISC X 19 07 30 00.9±.38 **7.60N**±.073 **37.10W**±.058 **10** **4.6b,4.8s** **83 25-129**
NEIC X 19 07 30 00.7 7.62N 37.13W 10 4.8b,4.8s **¶97x3308**
EIDC X 19 07 30 01.3 7.6N 37.3W 0 4.2b,4.8s
HRVD X 19 07 30 05.2±.3 7.74N±.05 37.40W±.05 15
NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c58; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}=0.32±.04; $M_{\theta\theta}$0.17±.06; $M_{\phi\phi}$0.14±.07; $M_{r\theta}$0.18±.17; $M_{r\phi}$–0.31±.20; $M_{\theta\phi}$–1.12±.04. Principal Axes: T 1.35,Plg12°,Azm45°; N –0.38, Plg75°,Azm188°; P –0.97,Plg9°,Azm313°. Best double couple: $M_0$1.2×10^{17}Nm, NP1:ϕ_S89°, δ76°,λ178°. NP2:ϕ_S179°,δ88°,λ14°.
ISC X 23 03 48 44.5±.78 **8.3N**±.11 **39.2W**±.16 **10** **4.2b**,3.6s **11 17-90**
NEIC X 23 03 48 44.0 8.23N 39.23W 10 **¶97x3921**
EIDC X 23 03 48 44.5 8.2N 39.2W 0 3.7s,4.1b
NEIC Less reliable solution.
ISC XI 14 10 18 20.2±.25 **0.81N**±.050 **27.01W**±.043 **10** **5.1b,5.2s** **249 15-156**
NEIC XI 14 10 18 20.0 0.81N 27.03W 10 5.2b,5.2s **¶97xi2275**
EIDC XI 14 10 18 23.8 0.7N 27.1W 24 4.5b,5.2s
HRVD XI 14 10 18 26.4±.2 0.78N±.03 27.21W±.02 15
NEIC Mw5.6(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c62; Half duration: 1s5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.33±.05; $M_{\theta\theta}$0.58±.09; $M_{\phi\phi}$–0.91±.10; $M_{r\theta}$1.12±.22; $M_{r\phi}$–0.16±.23; $M_{\theta\phi}$–2.90±.06. Principal Axes: T 3.17,Plg19°,Azm36°; N 0.08, Plg68°,Azm244°; P –3.25,Plg9°,Azm129°. Best double couple: $M_0$3.2×10^{17}Nm, NP1: ϕ_S174°,δ69°,λ7°. NP2:ϕ_S81°,δ83°,λ159°.
ISC XI 18 21 06 48.8±.60 **7.68N**±.079 **37.3W**±.14 **10** **4.5b,4.0s** **22 16-130**
NEIC XI 18 21 06 48.2 7.65N 37.31W 10 4.6b **¶97xi3063**
EIDC XI 18 21 06 48.6 7.7N 37.4W 0 4.3b,4.0s
NEIC Less reliable solution.
ISC XI 22 22 40 59.4±.64 **0.8N**±.19 **25.89W**±.090 **10** **4.2b,3.8s** **14 16-150**
NEIC XI 22 22 40 58.9 0.76N 25.91W 10 4.3b **¶97xi3976**
EIDC XI 22 22 40 59.1 0.9N 26.0W 0 3.9s,4.2b
ISC XI 30 18 32 33±1.2 **5.5N**±.31 **32.5W**±.18 **10** **4.1b** **5 28-95**
EIDC XI 30 18 32 32.8 5.6N 32.6W 0 4.1b **¶97xi5447**
ISC XII 08 06 26 19.9±.46 **3.49N**±.096 **31.46W**±.080 **10** **4.3b,4.3s** **28 25-155**
NEIC XII 08 06 26 19.4 3.46N 31.51W 10 4.5b,4.2s **¶97xii1881**
EIDC XII 08 06 26 19.9±.54 3.5N 31.5W 0 4.2b,4.4s
EIDC Error ellipse is semi-major=18.0km semi-minor=15.0km azimuth=17
ISC XII 11 07 02 48.4±.76 **0.8S**±.23 **24.4W**±.11 **10** **4.0b** **14 21-151**
NEIC XII 11 07 02 47.6 0.86S 24.45W 10 4.2b **¶97xii2510**
EIDC XII 11 07 02 47.9±.76 0.9S 24.5W 0 4.1b
NEIC Less reliable solution.
EIDC Error ellipse is semi-major=35.2km semi-minor=18.9km azimuth=157
ISC XII 11 14 01 14.0±.50 **0.85S**±.077 **21.70W**±.071 **10** **4.7b,4.6s** **75 18-152**
NEIC XII 11 14 01 14.1 0.83S 21.65W 10 4.8b,4.5s **¶97xii2579**
EIDC XII 11 14 01 14.1±.71 0.9S 21.7W 0 4.5b,4.5L
EIDC Error ellipse is semi-major=21.6km semi-minor=17.6km azimuth=91
ISC XII 14 08 56 27.8±.70 **0.5N**±.19 **27.7W**±.10 **10** **4.0b,4.2s** **14 23-151**
NEIC XII 14 08 56 27.4 0.53N 27.74W 10 4.4b,3.8s **¶97xii3120**
EIDC XII 14 08 56 28.3±.87 0.6N 27.8W 0 3.9b,4.2s

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=36.2km semi−minor=19.3km azimuth=153						
ISC	**XII**	**23 19 55 39**±1.1	**0.2S**±.25	**18.5W**±.12	**10**	**4.0b**,3.7s	**13**	**15-147**
NEIC	XII	23 19 55 38.8	0.25S	18.48W	10	4.3b		¶97xii4652
EIDC	XII	23 19 55 40.1±1.02	0.2S	18.6W	0	4.0b,3.6s		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=35.5km semi−minor=25.9km azimuth=152						
ISC	**XII**	**29 06 23 04.9**±.73	**7.0N**±.14	**34.1W**±.14	**10**	**3.8b**,3.6s	**10**	**26-79**
NEIC	XII	29 06 23 04.7	6.99N	34.08W	10			¶97xii5553
EIDC	XII	29 06 23 05.0±.84	7.0N	34.1W	0	3.7b,3.7s		
NEIC		Single network solution.						
EIDC		Error ellipse is semi−major=25.4km semi−minor=21.5km azimuth=9						
ISC	**XII**	**30 01 27 44.2**±.57	**7.4N**±.11	**34.6W**±.11	**10**	**4.1b,3.7s**	**15**	**26-86**
NEIC	XII	30 01 27 43.9	7.39N	34.58W	10	4.2b		¶97xii5669
EIDC	XII	30 01 27 44.0±.76	7.4N	34.7W	0	4.1b,3.7s		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=22.6km semi−minor=19.7km azimuth=168						
ISC	**XII**	**31 09 00 09.5**±.81	**9.5N**±.17	**40.5W**±.15	**10**	**3.8b**,3.4s	**7**	**26-88**
NEIC	XII	31 09 00 09.3	9.50N	40.51W	10	3.4b		¶97xii5866
EIDC	XII	31 09 00 09.7±.89	9.5N	40.6W	0	3.8b,3.5s		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=28.7km semi−minor=22.9km azimuth=176						

(407) North of Ascension Island.

ISC	**VII**	**07 06 11 40**±1.3	**0.5S**±.36	**17.2W**±.17	**10**	**4.0b**,3.8s	**10**	**14-146**
NEIC	VII	07 06 11 41.3	0.03S	17.41W	10	3.9b		¶97vii1002
EIDC	VII	07 06 11 47.5	0.1N	17.5W	34	3.7b,3.8s		
NEIC		Poor solution.						
ISC	**IX**	**01 05 18 47.2**±.38	**0.02S**±.070	**16.65W**±.069	**10**	**4.5b,4.0s**	**56**	**13-149**
EIDC	IX	01 05 18 46.8	0.1N	16.8W	0	4.3b,4.1s		¶97ix0051
NEIC	IX	01 05 18 46.9	0.06S	16.73W	10	4.6b		
ISC	**IX**	**01 12 36 29.8**±.25	**1.55S**±.045	**15.60W**±.050	**10**	**5.1b,5.3s**	**256**	**13-148**
NEIC	IX	01 12 36 29.5	1.59S	15.57W	10	5.1b,5.3s		¶97ix0104
EIDC	IX	01 12 36 29.9	1.6S	15.7W	0	4.6b,5.2s		
HRVD	IX	01 12 36 36.7±.1	1.11S±.02	15.61W±.02	15			
NEIC		Mw5.6(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c69; Half duration: 1ŝ5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.17±.03; $M_{\theta\theta}$1.25±.04; $M_{\phi\phi}$−1.42±.05; $M_{r\theta}$0.08±.14; $M_{r\phi}$1.71±.13; $M_{\theta\phi}$−2.22±.04. Principal Axes: T 2.78,Plg19°,Azm215°; N 0.58, Plg58°,Azm340°; P −3.36,Plg24°,Azm116°. Best double couple: $M_0$3.1×10^{17}Nm, NP1: ϕ_S257°,δ58°,λ−176°. NP2:ϕ_S165°,δ87°,λ−32°.						
ISC	**IX**	**01 22 59 28.8**±.25	**0.02N**±.044	**16.78W**±.044	**10**	**5.1b,4.9s**	**246**	**13-150**
EIDC	IX	01 22 59 28.4	0.0N	16.9W	0	4.7b,5.0s		¶97ix0176
NEIC	IX	01 22 59 28.6	0.03N	16.81W	10	5.2b,4.8s		
HRVD	IX	01 22 59 32.6±.2	0.36N±.04	16.63W±.04	15			
NEIC		Mw5.5(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c48; Half duration: 1ŝ1. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.06±.04; $M_{\theta\theta}$0.63±.04; $M_{\phi\phi}$0.43±.05; $M_{r\theta}$−0.56±.17; $M_{r\phi}$1.07±.17; $M_{\theta\phi}$−0.77±.05. Principal Axes: T 1.77,Plg22°,Azm227°; N −0.14,Plg13°,Azm322°; P −1.63,Plg64°,Azm80°. Best double couple: $M_0$1.7×10^{17}Nm, NP1: ϕ_S293°,δ26°,λ−122°. NP2:ϕ_S147°,δ69°,λ−76°.						
ISC	**IX**	**01 23 17 24**±1.1	**0.1N**±.15	**16.8W**±.18	**10**	**4.0b**	**11**	**14-149**
NEIC	IX	01 23 17 23.9	0.08N	16.79W	10			¶97ix0178
EIDC	IX	01 23 17 24.1	0.1N	17.0W	0	3.9b,4.2L		
NEIC		Less reliable solution.						
ISC	**IX**	**05 07 00 46.3**±.54	**0.1S**±.12	**17.43W**±.079	**10**	**4.3b,3.9s**	**30**	**14-146**
NEIC	IX	05 07 00 46.3	0.10S	17.50W	10	4.4b		¶97ix0707
EIDC	IX	05 07 00 46.5	0.0S	17.6W	0	4.3b,3.8s		
NEIC		Less reliable solution.						
ISC	**IX**	**07 13 50 18.6**±.70	**0.1S**±.13	**16.8W**±.13	**10**	**4.1b**	**13**	**14-145**
NEIC	IX	07 13 50 19.1	0.75S	16.32W	33			¶97ix1076
EIDC	IX	07 13 50 21.9	0.2S	16.9W	18	3.9b		
NEIC		Less reliable solution.						
ISC	**IX**	**19 16 34 54.8**±.57	**0.1S**±.13	**16.61W**±.089	**10**	**4.2b,3.9s**	**21**	**13-145**
NEIC	IX	19 16 34 54.6	0.12S	16.61W	10	4.5b		¶97ix2815
EIDC	IX	19 16 34 55.1	0.1S	16.8W	0	4.1b,4.0s		
NEIC		Less reliable solution.						
EIDC	**IX**	**21 16 37 42.0**	**0.2N**	**17.1W**	**0**	4.3b,4.1L		**¶97ix3129**
ISC	**IX**	**22 07 34 35.3**±.58	**0.1N**±.12	**16.64W**±.088	**10**	**4.4b,4.0s**	**25**	**13-149**
NEIC	IX	22 07 34 35.0	0.05N	16.63W	10	4.8b		¶97ix3242
EIDC	IX	22 07 34 35.0	0.0N	16.8W	0	4.2b,4.0s		
NEIC		Less reliable solution.						
ISC	**IX**	**25 17 25 56**±1.0	**0.2N**±.14	**16.5W**±.12	**10**	**4.1b**,3.5s	**14**	**13-145**
NEIC	IX	25 17 25 55.5	0.09N	16.55W	10	4.9b		¶97ix3767
EIDC	IX	25 17 25 55.6	0.1N	16.7W	0	4.1b,3.7s		
NEIC		Poor solution.						
ISC	**IX**	**26 00 14 14.5**±.60	**0.1N**±.12	**16.74W**±.091	**10**	**4.2b**	**17**	**13-146**
NEIC	IX	26 00 14 14.1	0.09N	16.68W	10			¶97ix3810
EIDC	IX	26 00 14 14.7	0.1N	16.7W	0	4.1b,4.3L		
NEIC		Single network solution.						
ISC	**IX**	**26 14 00 05.9**±.26	**0.13N**±.045	**16.84W**±.048	**10**	**5.1b,5.0s**	**208**	**13-146**
NEIC	IX	26 14 00 05.8	0.12N	16.92W	10	5.1b,5.0s		¶97ix4029
EIDC	IX	26 14 00 06.0	0.1N	16.9W	0	4.8b		
BJI	IX	26 14 00 07.8	0.10N	16.90W	10			
HRVD	IX	26 14 00 09.4±.2	0.16N±.05	16.90W±.05	15			
NEIC		Mw5.5(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c67; Half duration: 1ŝ4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.29±.07; $M_{\theta\theta}$0.42±.07; $M_{\phi\phi}$0.87±.07; $M_{r\theta}$1.11±.24; $M_{r\phi}$−0.53±.25; $M_{\theta\phi}$−0.95±.07. Principal Axes: T 2.00,Plg19°,Azm47°; N −0.16, Plg16°,Azm311°; P −1.84,Plg64°,Azm183°. Best double couple: $M_0$1.9×10^{17}Nm, NP1: ϕ_S162°,δ30°,λ−55°. NP2:ϕ_S303°,δ66°,λ−108°.						
ISC	**X**	**04 10 20 35**±1.0	**0.1N**±.19	**16.6W**±.10	**10**	**4.1b**,3.8s	**13**	**13-145**
NEIC	X	04 10 20 34.1	0.02N	16.61W	10			¶97x0625
EIDC	X	04 10 20 34.1	0.1N	16.8W	0	4.0s,4.1b		
NEIC		Less reliable solution.						
ISC	**X**	**27 07 40 46.5**±.69	**0.4N**±.21	**16.8W**±.11	**10**	**4.1b**	**14**	**13-146**
NEIC	X	27 07 40 45.9	0.29N	16.81W	10	4.4b		¶97x4583
EIDC	X	27 07 40 46.2	0.3N	16.8W	0	4.1b,4.5L		
NEIC		Less reliable solution.						
ISC	**X**	**27 07 46 04.6**±.56	**0.2N**±.12	**16.66W**±.098	**10**	**4.5b,4.2s**	**23**	**13-149**
NEIC	X	27 07 46 02.7	0.13S	16.66W	10	4.8b		¶97x4584
EIDC	X	27 07 46 04.1	0.1S	17.0W	0	4.2s,4.4b		
NEIC		Less reliable solution.						
ISC	**XI**	**04 01 00 47**±1.9	**0.2N**±.19	**16.5W**±.22	**10**	**4.2b**	**8**	**13-145**
EIDC	XI	04 01 00 46.9	0.0N	16.6W	0	4.1b,3.9s		¶97xi0548
ISC	**XI**	**04 21 00 20**±3.5	**0.3S**±.65	**16.7W**±.70	**10**	4.2b	**5**	**13-90**
								¶97xi0689
ISC	**XI**	**06 13 59 26.0**±.95	**0.1N**±.16	**16.7W**±.12	**10**	**4.3b**,3.5s	**13**	**13-145**
NEIC	XI	06 13 59 25.4	0.03N	16.69W	10			¶97xi0987
EIDC	XI	06 13 59 26.1	0.1S	16.7W	0	3.7s,4.2b		
NEIC		Poor solution.						
ISC	**XI**	**09 19 06 24.0**±.75	**3.3S**±.11	**11.8W**±.13	**10**	**4.1b**	**16**	**12-130**
EIDC	XI	09 19 06 23.8	3.3S	11.8W	0	4.1b,3.3L		¶97xi1497
NEIC	XI	09 19 06 23.9	3.31S	11.72W	10	4.3b		
NEIC		Less reliable solution.						
ISC	**XI**	**10 12 47 34.2**±.19	**0.08N**±.035	**16.87W**±.036	**10**	**5.4b,5.3s**	**371**	**8-154**
MOS	XI	10 12 47 33.9	0.1N	16.9W	10	5.9b,5.3s		¶97xi1615
NEIC	XI	10 12 47 33.9	0.05N	16.89W	10	5.6b,5.2s		
BJI	XI	10 12 47 34.5	0.89N	17.75W	19	5.6b,5.9s		
HRVD	XI	10 12 47 38.4±.2	0.25N±.03	16.84W±.04	15			
EIDC	XI	10 12 47 38.6	0.1N	17.0W	25	4.8b,5.3s		
NEIC		Mw5.6(GS), Mw5.6(HRV).						
NEIC		Moment tensor solution: s14, scale 10^{17}Nm; M_{rr}−1.81; $M_{\theta\theta}$−0.76; $M_{\phi\phi}$2.58; $M_{r\theta}$1.38; $M_{r\phi}$−0.65; $M_{\theta\phi}$−0.66. Depth 3km; Principal axes: T 2.89,Plg12°,Azm75°; N −0.12,Plg32°, Azm338°; P −2.77,Plg56°,Azm183°. Best double couple: $M_0$2.8×10^{17}Nm; NP1:ϕ_S199°,δ43°, λ−40°. NP2:ϕ_S320°,δ64°,λ−126°.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s32,c56; Mantle waves: s5,c5; Half duration: 1ŝ5. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.54±.06; $M_{\theta\theta}$−0.04±.08; $M_{\phi\phi}$2.57±.10; $M_{r\theta}$1.60±.22; $M_{r\phi}$−0.29±.27; $M_{\theta\phi}$−1.06±.06. Principal Axes: T 3.08,Plg9°,Azm67°; N 0.24,Plg25°,Azm332°; P −3.32,Plg63°,Azm175°. Best double couple: $M_0$3.2×10^{17}Nm, NP1:ϕ_S183°,δ42°,λ−51°. NP2:ϕ_S316°,δ59°,λ−119°.						
ISC	**XI**	**28 17 54 58**±1.2	**0.5N**±.32	**15.8W**±.19	**10**	4.1b	**8**	**12-54**
EIDC	XI	28 17 54 58.4	0.3N	15.8W	0	4.0b,4.6L		¶97xi5122
ISC	**XII**	**03 02 59 00.6**±.66	**0.1N**±.14	**16.71W**±.093	**10**	**4.0b**	**15**	**13-145**
NEIC	XII	03 02 59 00.2	0.07N	16.76W	10			¶97xii0354
EIDC	XII	03 02 59 00.8±.77	0.0N	16.8W	0	3.9b,4.4L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=25.5km semi−minor=19.3km azimuth=168						
ISC	**XII**	**05 01 29 07.6**±.48	**0.12N**±.076	**16.53W**±.070	**10**	**4.6b,4.3s**	**49**	**13-149**
NEIC	XII	05 01 29 06.8	0.02N	16.63W	10	4.7b,4.5s		¶97xii0756
EIDC	XII	05 01 29 14.3±7.33	0.0N	16.7W	49±70.3	4.1b,4.3s		
EIDC		Error ellipse is semi−major=18.4km semi−minor=16.6km azimuth=66						
ISC	**XII**	**09 02 07 08.1**±.68	**0.29N**±.098	**16.53W**±.099	**10**	**4.2b**,3.4s	**19**	**13-145**
NEIC	XII	09 02 07 07.5	0.28N	16.57W	10	3.9b		¶97xii2075
EIDC	XII	09 02 07 07.6±.88	0.2N	16.7W	0	4.1b,3.5s		
EIDC		Error ellipse is semi−major=30.7km semi−minor=16.7km azimuth=63						
ISC	**XII**	**15 17 33 44**±1.0	**0.0S**±.15	**16.6W**±.12	**10**	**4.4b**	**12**	**13-149**
EIDC	XII	15 17 33 43.5±1.45	0.2S	16.8W	0	4.3b,3.9s		¶97xii3315
NEIC	XII	15 17 33 44.1	0.02N	16.54W	10			
EIDC		Error ellipse is semi−major=52.0km semi−minor=26.5km azimuth=48						
NEIC		Less reliable solution.						

(408) Ascension Island region.

ISC	**IX**	**17 00 56 27**±2.6	**9.7S**±.46	**13.6W**±.43	**10**	**3.9b**	**9**	**18-95**
EIDC	IX	17 00 56 27.2	10.5S	12.8W	29	3.8b,3.3L		¶97ix2453
ISC	**X**	**19 17 43 45**±3.7	**7.4S**±.37	**13.9W**±.59	**10**	**4.2b**	**4**	**35-75**
EIDC	X	19 17 43 45.1	7.5S	13.9W	0	4.2b		¶97x3374
ISC		Poorly determined						

(409) South Atlantic Ocean.

ISC	**VIII**	**26 08 27 12.0**±.58	**7.2S**±.14	**21.77W**±.090	**10**	**4.4b**,3.5s	**34**	**17-147**
NEIC	VIII	26 08 27 11.6	7.25S	21.76W	10	4.7b		¶97viii3816
EIDC	VIII	26 08 27 12.2	7.3S	21.8W	0	4.3b,3.5s		
NEIC		Less reliable solution.						
ISC	**VIII**	**26 08 43 27.5**±.20	**6.99S**±.041	**21.95W**±.040	**10**	**5.3b,4.7s**	**279**	**16-151**
NEIC	VIII	26 08 43 27.2	7.00S	21.90W	10	5.4b,4.7s		¶97viii3819
MOS	VIII	26 08 43 27.5	6.9S	22.0W	10	5.7b,4.8s		
EIDC	VIII	26 08 43 27.6	7.1S	22.0W	0	4.8b		
HRVD	VIII	26 08 43 30.8±.6	7.00S±.10	21.61W±.12	15			
NEIC		Mw5.2(HRV).						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s28,c41; Half duration: 1ŝ3. Moment tensor: Scale 10^{16}Nm; M_{rr}6.01±.48; $M_{\theta\theta}$−6.05±.46; $M_{\phi\phi}$0.03±.61; $M_{r\theta}$2.13±2.46; $M_{r\phi}$−4.07±1.42; $M_{\theta\phi}$1.09±.53. Principal Axes: T 8.22,Plg64°,Azm77°; N −1.28,Plg22°,Azm293°; P −6.94,Plg14°,Azm198°. Best double couple: $M_0$7.6×10^{16}Nm, NP1:ϕ_S260°,δ36°,λ51°. NP2:ϕ_S125°,δ63°,λ115°.						
ISC	**VIII**	**26 15 10 46.9**±.55	**7.2S**±.13	**21.8W**±.10	**10**	**4.2b**,3.6s	**20**	**17-146**
NEIC	VIII	26 15 10 46.6	7.25S	21.84W	10	4.4b		¶97viii3867
EIDC	VIII	26 15 10 47.0	7.2S	21.9W	0	4.2b,3.6s		
NEIC		Less reliable solution.						

(410) South Atlantic Ridge.

ISC	**VII**	**10 18 38 16.7**±.51	**22.19S**±.092	**11.14W**±.099	**10**	**4.2b**	**27**	**27-103**
NEIC	VII	10 18 38 16.4	22.22S	11.10W	10	4.6b		¶97vii1544
EIDC	VII	10 18 38 16.5	22.1S	11.2W	0	4.2b		
NEIC		Less reliable solution.						
ISC	**VII**	**22 20 25 16.6**±.84	**22.5S**±.18	**10.6W**±.14	**10**	**4.2b**,3.5s	**20**	**30-141**
NEIC	VII	22 20 25 15.8	22.64S	10.56W	10	4.2b		¶97vii3428
EIDC	VII	22 20 25 16.5	22.5S	10.6W	0	4.1b,3.5s		
NEIC		Less reliable solution.						
ISC	**VIII**	**04 04 18 10.5**±.51	**25.1S**±.12	**13.58W**±.091	**10**	**4.5b**,4.3s	**32**	**29-145**
EIDC	VIII	04 04 18 10.3	25.1S	13.5W	0	4.3b,4.1s		¶97viii0456
NEIC	VIII	04 04 18 10.4	25.09S	13.58W	10	4.7b,4.3s		
NEIC		Less reliable solution.						
ISC	**VIII**	**04 09 04 59.4**±.43	**42.78S**±.084	**16.17W**±.096	**10**	**4.7b,5.2s**	**50**	**28-152**
BJI	VIII	04 09 04 58.9	42.80S	16.10W	10	5.8s		¶97viii0482
NEIC	VIII	04 09 04 58.9	42.79S	16.12W	10	4.9b,5.1s		
EIDC	VIII	04 09 04 59.5	42.7S	16.2W	0	4.4b		
HRVD	VIII	04 09 05 06.4±.3	42.98S±.05	16.02W±.07	15			
NEIC		Mw5.6(HRV), Less reliable solution.						
HRVD		Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c47; Half duration: 1ŝ3. Moment tensor: Scale 10^{17}Nm; M_{rr}−2.03±.08; $M_{\theta\theta}$0.52±.10; $M_{\phi\phi}$1.52±.08; $M_{r\theta}$0.62±.26; $M_{r\phi}$−1.38±.40; $M_{\theta\phi}$−0.34±.10. Principal Axes: T 2.16,Plg20°,Azm71°; N 0.42, Plg2°,Azm340°; P −2.58,Plg70°,Azm243°. Best double couple: $M_0$2.4×10^{17}Nm, NP1: ϕ_S165°,δ25°,λ−84°. NP2:ϕ_S339°,δ65°,λ−93°.						
EIDC	**VIII**	**26 05 22 03.0**	**42.9S**	**18.1W**	**0**	4.1b		**50-144**
								¶97viii3791
ISC	**IX**	**23 04 16 25.1**±.97	**48.7S**±.25	**8.7W**±.23	**10**	**4.0b,3.7s**	**7**	**33-153**
NEIC	IX	23 04 16 24.6	48.60S	8.66W	10			¶97ix3371
EIDC	IX	23 04 16 25.5	48.7S	8.8W	0	3.8s,4.0b		
NEIC		Less reliable solution.						
ISC	**IX**	**28 20 47 58.3**±.63	**19.7S**±.13	**11.9W**±.12	**10**	**4.1b,3.7s**	**18**	**27-149**
NEIC	IX	28 20 47 57.8	19.75S	11.91W	10	4.6b		¶97ix4757
EIDC	IX	28 20 47 57.9	19.8S	11.9W	0	4.0b,3.8s		
NEIC		Less reliable solution.						

ISC	**X**	**02 09 57 26.6**±.52	**24.9S**±.10	**13.43W**±.081	**10**	**4.6b**	**21**	**29-145**
NEIC	X	02 09 57 26.2	24.98S	13.43W	10	4.6b		**¶97x0255**
EIDC	X	02 09 57 31.0	25.0S	13.4W	24	4.4b		
NEIC	Less reliable solution.							
ISC	**XI**	**06 20 06 36.0**±.54	**34.91S**±.074	**17.1W**±.16	**10**	**4.3b,4.1s**	**27**	**34-152**
EIDC	XI	06 20 06 36.6	35.0S	17.0W	0	4.2b,4.1s		**¶97xi1024**
NEIC	XI	06 20 06 36.7	34.99S	16.88W	10	4.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**29 09 30 11.0**±.93	**27.6S**±.18	**13.3W**±.15	**10**	**4.4b,4.5s**	**9**	**34-146**
NEIC	XI	29 09 30 10.9	27.68S	13.30W	10			**¶97xi5236**
EIDC	XI	29 09 30 11.3	27.7S	13.3W	0	4.3b,4.5s		
NEIC	Less reliable solution.							
ISC	**XI**	**29 09 48 11.9**±.90	**27.3S**±.19	**12.5W**±.13	**10**	**4.3b,4.4s**	**8**	**29-145**
NEIC	XI	29 09 48 11.2	27.19S	12.56W	10	4.5b		**¶97xi5241**
EIDC	XI	29 09 48 12.0	27.5S	12.5W	0	4.2b,4.4s		
NEIC	Poor solution.							
ISC	**XI**	**29 10 09 22.0**±.81	**27.8S**±.16	**13.2W**±.12	**10**	**4.3b,4.7s**	**12**	**29-146**
NEIC	XI	29 10 09 21.8	27.77S	13.19W	10	4.7b		**¶97xi5245**
EIDC	XI	29 10 09 22.7	27.9S	13.2W	0	4.3b,4.5s		
NEIC	Less reliable solution.							
ISC	**XII**	**07 11 50 05**±1.4	**17.7S**±.13	**14.1W**±.29	**10**	**4.5b,3.8s**	**13**	**25-85**
NEIC	XII	07 11 50 04.8	17.68S	14.08W	10	4.8b		**¶97xii1693**
EIDC	XII	07 11 50 05.2±1.68	17.7S	14.1W	0	3.9s,4.2b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=50.5km semi−minor=21.7km azimuth=74							
ISC	**XII**	**27 20 11 01.6**±.31	**55.84S**±.052	**4.4W**±.11	**10**	**5.0b,5.6s**	**95**	**15-166**
BJI	XII	27 20 11 01.3	55.80S	4.20W	10	6.2s		**¶97xii5342**
NEIC	XII	27 20 11 01.3	55.78S	4.22W	10	5.4b,5.3s		
MOS	XII	27 20 11 01.6	55.8S	4.3W	10	5.6b,5.5s		
EIDC	XII	27 20 11 01.6±.50	55.8S	4.3W	0	4.9b,5.3s		
HRVD	XII	27 20 11 10.5±.1	55.97S±.01	3.72W±.02	15			
NEIC	Mw6.2(HRV).							
EIDC	Error ellipse is semi−major=18.0km semi−minor=17.2km azimuth=48							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c92; Mantle waves: s49,c89; Half duration: 2$\hat{s}$8. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.18±.02; $M_{\theta\theta}$−0.53±.02; $M_{\phi\phi}$0.71±.02; $M_{r\theta}$0.34±.06; $M_{r\phi}$−0.37±.06; $M_{\theta\phi}$1.96±.02. Principal Axes: T 2.15,Plg3°,Azm126°; N −0.06,Plg75°,Azm26°; P −2.09,Plg14°,Azm217°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S260°,δ78°,λ−9°. NP2:ϕ_S352°,δ82°,λ−168°.							
ISC	**XII**	**27 22 55 20.7**±.41	**55.69S**±.059	**4.2W**±.17	**10**	**4.6b,4.3s**	**41**	**15-160**
BJI	XII	27 22 55 20.4	55.60S	4.10W	10			**¶97xii5360**
NEIC	XII	27 22 55 20.4	55.69S	4.11W	10	5.1b,4.4s		
EIDC	XII	27 22 55 26.0±.49	55.7S	4.1W	33±3.7	4.4b,4.2s		
EIDC	Error ellipse is semi−major=20.7km semi−minor=18.1km azimuth=101							
ISC	**XII**	**31 04 59 14.2**±.54	**55.75S**±.070	**4.7W**±.22	**10**	**4.4b,4.0s**	**24**	**15-160**
NEIC	XII	31 04 59 14.1	55.75S	4.71W	10	4.7b		**¶97xii5837**
EIDC	XII	31 04 59 14.5±.66	55.9S	4.7W	0	4.3b,4.1s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=26.1km semi−minor=19.2km azimuth=47							

(411) Tristan da Cunha region.

ISC	**VIII**	**23 17 43 55**±1.1	**39.5S**±.23	**16.0W**±.21	**10**	**4.0b,3.7s**	**7**	**35-147**
EIDC	VIII	23 17 43 55.1	39.5S	16.0W	0	4.0b,3.8s		**¶97viii3430**
NEIC	VIII	23 17 43 55.3	39.17S	16.04W	10	4.3b		
NEIC	Poor solution.							

(412) Bouvet Island region.

ISC	**X**	**22 22 20 28.4**±.48	**54.25S**±.066	**5.9E**±.18	**10**	**4.5b,4.6s**	**24**	**18-149**
NEIC	X	22 22 20 28.3	54.24S	6.00E	10			**¶97x3890**
EIDC	X	22 22 20 28.6	54.3S	5.8E	0	4.4b,4.6s		
NEIC	Less reliable solution.							

(413) South-west of Africa.

ISC	**VII**	**22 08 50 00**±8.7	**52.05S**±.093	**15.1E**±.27	**19**±64	**4.2b**	**18**	**20-164**
NEIC	VII	22 08 50 00.9	52.07S	15.10E	25			**¶97vii3346**
EIDC	VII	22 08 50 02.6	52.1S	15.2E	23	4.0b		
NEIC	Less reliable solution.							
ISC	**IX**	**10 20 03 50.8**±.53	**52.79S**±.074	**20.0E**±.22	**10**	**4.2b,4.3s**	**22**	**20-148**
NEIC	IX	10 20 03 50.4	52.80S	19.83E	10	4.2b		**¶97ix1570**
EIDC	IX	10 20 03 50.7	52.8S	20.0E	0	4.1b,4.3s		
NEIC	Less reliable solution.							
ISC	**IX**	**10 20 27 41.1**±.33	**52.82S**±.053	**19.7E**±.13	**10**	**4.9b,5.0s**	**102**	**18-169**
MOS	IX	10 20 27 40.5	52.8S	19.6E	10	5.4b,4.7s		**¶97ix1575**
BJI	IX	10 20 27 41.0	52.80S	19.70E	10			
NEIC	IX	10 20 27 41.0	52.80S	19.68E	10	5.1b,4.9s		
EIDC	IX	10 20 27 41.0	52.8S	19.8E	0	4.8b,4.8s		
HRVD	IX	10 20 27 46.2±.4	52.88S±.05	20.33E±.10	15			
NEIC	Mw5.3(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c57; Half duration: 1$\hat{s}$0. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.08±.04; $M_{\theta\theta}$0.86±.05; $M_{\phi\phi}$0.22±.05; $M_{r\theta}$0.48±.17; $M_{r\phi}$0.25±.18; $M_{\theta\phi}$−0.22±.05. Principal Axes: T 1.00,Plg11°,Azm12°; N 0.25, Plg14°,Azm279°; P −1.25,Plg72°,Azm140°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S119°,δ36°,λ−66°. NP2:ϕ_S270°,δ58°,λ−106°.							
NEIC	**IX**	**10 21 38 08.0**	**52.91S**	**19.34E**	**10**			**25-145**
EIDC	IX	10 21 38 08.4	52.8S	19.6E	0	4.0b		**¶97ix1582**
NEIC	Poor solution.							
ISC	**IX**	**10 22 28 00.2**±.70	**52.7S**±.11	**19.5E**±.25	**10**	**4.1b**	**16**	**22-148**
NEIC	IX	10 22 27 59.9	52.72S	19.44E	10	4.0b		**¶97ix1589**
EIDC	IX	10 22 28 00.1	52.7S	19.6E	0	4.1b		
NEIC	Less reliable solution.							
ISC	**IX**	**10 22 29 27.4**±.22	**52.92S**±.041	**19.7E**±.10	**10**	**5.2b,5.4s**	**211**	**18-166**
EIDC	IX	10 22 29 26.2	52.9S	19.7E	0	5.1b		**¶97ix1590**
BJI	IX	10 22 29 26.7	52.90S	19.70E	10	5.7s		
NEIC	IX	10 22 29 26.7	52.91S	19.72E	10	5.3b,5.3s		
MOS	IX	10 22 29 27.6	52.9S	19.9E	10	5.6b,5.3s		
HRVD	IX	10 22 29 32.1±.2	53.02S±.02	20.35E±.04	15			
NEIC	Mw5.6(GS), Mw5.6(HRV).							
NEIC	Moment tensor solution: s12, scale 10^{17}Nm; M_{rr}−3.40; $M_{\theta\theta}$2.20; $M_{\phi\phi}$1.20; $M_{r\theta}$−0.14; $M_{r\phi}$0.21; $M_{\theta\phi}$−1.06. Depth 3km; Principal axes: T 2.89,Plg2°,Azm212°; N 0.53,Plg1°, Azm303°; P −3.41,Plg87°,Azm67°. Best double couple: $M_0$3.1×10^{17}Nm; NP1:ϕ_S301°,δ43°, λ−92°. NP2:ϕ_S124°,δ47°,λ−88°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s49,c89; Mantle waves: s5,c6; Half duration: 1$\hat{s}$5. Moment tensor: Scale 10^{17}Nm; M_{rr}−3.08±.05; $M_{\theta\theta}$2.48±.06; $M_{\phi\phi}$0.59±.06; $M_{r\theta}$0.20±.20; $M_{r\phi}$0.25±.18; $M_{\theta\phi}$−0.96±.06. Principal Axes: T 2.89,Plg1°,Azm23°; N 0.21,Plg5°,Azm293°; P −3.11,Plg85°,Azm122°. Best double couple: $M_0$3.0×10^{17}Nm, NP1:ϕ_S118°,δ44°,λ−82°. NP2:ϕ_S288°,δ46°,λ−97°.							
ISC	**IX**	**11 01 11 02.8**±.34	**52.77S**±.051	**19.5E**±.14	**10**	**4.7b,4.7s**	**64**	**18-166**
MOS	IX	11 01 11 02.5	52.8S	19.5E	10	5.2b,4.5s		**¶97ix1606**
NEIC	IX	11 01 11 02.8	52.77S	19.53E	10	4.9b,4.6s		
EIDC	IX	11 01 11 06.8	52.8S	19.6E	24	4.4b		
ISC	**IX**	**11 03 08 27.2**±.55	**52.79S**±.089	**19.6E**±.22	**10**	**4.3b,3.6s**	**23**	**20-148**
NEIC	IX	11 03 08 27.1	52.81S	19.65E	10	4.4b		**¶97ix1624**
EIDC	IX	11 03 08 27.3	52.8S	19.8E	0	4.2b,3.6s		
ISC	**IX**	**11 03 34 09.9**±.50	**52.77S**±.072	**19.5E**±.24	**10**	**4.5b,3.7s**	**32**	**20-150**
NEIC	IX	11 03 34 09.9	52.77S	19.70E	10	4.5b		**¶97ix1628**
EIDC	IX	11 03 34 13.7	52.8S	19.7E	24	4.2b,3.7s		
NEIC	Less reliable solution.							
ISC	**IX**	**11 16 41 45.2**±.54	**52.83S**±.083	**19.9E**±.22	**10**	**4.3b**	**15**	**20-145**
NEIC	IX	11 16 41 45.0	52.83S	19.94E	10	4.4b		**¶97ix1705**
EIDC	IX	11 16 41 45.2	52.9S	20.0E	0	4.2b		
NEIC	Less reliable solution.							
ISC	**IX**	**13 04 45 11.0**±.70	**52.5S**±.11	**15.0E**±.24	**10**	**4.0b**	**10**	**21-142**
NEIC	IX	13 04 45 10.5	52.47S	14.95E	10	4.4b		**¶97ix1917**
EIDC	IX	13 04 45 10.9	52.5S	15.0E	0	4.0b		
NEIC	Less reliable solution.							
ISC	**X**	**07 17 53 32.2**±.34	**52.14S**±.054	**14.9E**±.13	**10**	**5.1b,5.1s**	**128**	**19-164**
BJI	X	07 17 53 32.2	52.10S	15.20E	10	5.5s		**¶97x1283**
NEIC	X	07 17 53 32.2	52.12S	15.17E	10	5.3b,5.0s		
MOS	X	07 17 53 32.6	52.2S	15.3E	10	5.6b		
HRVD	X	07 17 53 36.0±.3	52.14S±.03	16.00E±.07	15			
EIDC	X	07 17 53 36.8	52.2S	15.4E	26	4.8b		
NEIC	Mw5.5(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c69; Half duration: 1$\hat{s}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.77±.05; $M_{\theta\theta}$1.56±.05; $M_{\phi\phi}$0.21±.06; $M_{r\theta}$0.01±.17; $M_{r\phi}$0.50±.18; $M_{\theta\phi}$−0.04±.05. Principal Axes: T 1.56,Plg0°,Azm182°; N 0.33, Plg13°,Azm272°; P −1.89,Plg77°,Azm92°. Best double couple: $M_0$1.7×10^{17}Nm, NP1: ϕ_S259°,δ47°,λ−109°. NP2:ϕ_S105°,δ47°,λ−71°.							
ISC	**XI**	**24 13 11 48.4**±.64	**52.8S**±.13	**12.9E**±.23	**10**	**4.4b,3.7s**	**16**	**20-151**
EIDC	XI	24 13 11 48.1	52.9S	12.9E	0	4.3b,3.6s		**¶97xi4323**
NEIC	XI	24 13 11 48.3	52.78S	12.90E	10	4.7b		
NEIC	Less reliable solution.							

SEISMIC REGION 33.
INDIAN OCEAN.

(415) Eastern Gulf of Aden.

ISC	**VIII**	**24 09 03 09.1**±.94	**12.6N**±.17	**47.6E**±.14	**10**	**3.8b,**3.2s	**8**	**6-92**
NEIC	VIII	24 09 03 09.0	12.72N	47.57E	10			**¶97viii3504**
EIDC	VIII	24 09 03 09.2	12.6N	47.6E	0	3.8b,3.6s		
NEIC	Single network solution.							

(416) Socotra region.

EIDC	**XII**	**15 13 38 01.9**±1.22	**12.9N**	**56.7E**	**0**	**3.9b,**3.9s		**39-84**
								¶97xii3294
EIDC	Error ellipse is semi−major=35.5km semi−minor=25.7km azimuth=176							

(417) Arabian Sea.

ISC	**IX**	**19 01 14 44.5**±.49	**14.69N**±.081	**55.1E**±.10	**10**	**4.4b,3.7s**	**23**	**21-121**
NEIC	IX	19 01 14 44.4	14.74N	55.09E	10	4.7b		**¶97ix2731**
EIDC	IX	19 01 14 44.7	14.7N	55.1E	0	4.2b,3.7s		
EIDC	**IX**	**19 02 39 15.0**	**14.2N**	**54.8E**	**0**	**3.9b**		**¶97ix2741**
ISC	**IX**	**19 23 14 46.8**±.41	**14.66N**±.073	**54.90E**±.054	**10**	**4.5b,3.9s**	**72**	**21-132**
BJI	IX	19 23 14 46.8	14.70N	54.80E	10	4.7b		**¶97ix2865**
NEIC	IX	19 23 14 46.8	14.73N	54.85E	10	4.7b,3.7s		
MOS	IX	19 23 14 47.1	14.7N	54.7E	10	5.1b		
EIDC	IX	19 23 14 49.4	14.6N	55.1E	13	4.2b,3.8s		
NEIC	Less reliable solution.							
ISC	**IX**	**19 23 16 27.1**±.66	**14.8N**±.12	**55.2E**±.11	**10**	**4.2b,**3.8s	**21**	**23-132**
NEIC	IX	19 23 16 27.1	14.82N	55.18E	10			**¶97ix2866**
EIDC	IX	19 23 16 27.4	14.7N	55.2E	0	4.1b,4.1s		
NEIC	Less reliable solution.							
ISC	**IX**	**19 23 18 32.2**±.72	**14.7N**±.13	**55.0E**±.12	**10**	**4.1b,**4.0s	**17**	**23-121**
NEIC	IX	19 23 18 32.2	14.76N	55.04E	10			**¶97ix2867**
EIDC	IX	19 23 18 32.4	14.6N	55.0E	0	4.0b,4.0s		
NEIC	Less reliable solution.							
ISC	**XI**	**08 15 02 31**±2.3	**22.8N**±.12	**62.56E**±.071	**45**±24	**3.9b**	**23**	**11-90**
EIDC	XI	08 15 02 27.0	22.7N	62.7E	0	3.8b		**¶97xi1297**
NEIC	XI	08 15 02 30.3	22.82N	62.65E	33			
BJI	XI	08 15 02 32.5	22.84N	62.34E	64	4.6b,4.9s		
NEIC	Less reliable solution.							
ISC	**XI**	**09 04 33 34.0**±.46	**13.07N**±.087	**57.58E**±.069	**10**	**4.6b,3.9s**	**60**	**23-123**
BJI	XI	09 04 33 28.5	12.69N	56.67E	19	4.6b		**¶97xi1396**
NEIC	XI	09 04 33 35.5	13.08N	57.57E	20	4.8b		
EIDC	XI	09 04 33 37.8	13.1N	57.6E	21	4.2b,3.9s		
ISC	**XII**	**07 07 16 15**±5.5	**14.3N**±.14	**56.46E**±.074	**133**±49	**4.2b**	**43**	**19-133**
EIDC	XII	07 07 16 00.5±1.05	14.1N	56.5E	0	4.4b,3.9s		**¶97xii1646**
BJI	XII	07 07 16 04.0	14.20N	56.40E	33	4.7b		
NEIC	XII	07 07 16 04.0	14.17N	56.44E	33	4.7b		
EIDC	Error ellipse is semi−major=30.7km semi−minor=17.7km azimuth=26							
NEIC	Less reliable solution.							
ISC	**XII**	**07 11 27 49**±2.2	**14.2N**±.32	**56.4E**±.33	**10**	**3.9b**	**7**	**41-85**
EIDC	XII	07 11 27 48.5±2.37	14.1N	56.4E	0	3.8b		**¶97xii1686**
EIDC	Error ellipse is semi−major=63.8km semi−minor=29.0km azimuth=45							
ISC	**XII**	**15 00 43 41.4**±.33	**12.91N**±.060	**57.95E**±.039	**26**	**4.7b,4.6s**	**87**	**15-134**
HRVD	XII	15 00 43 37.4±.6	12.87N±.11	57.85E±.08	15			**¶97xii3215**
NDI	XII	15 00 43 40.9	12.94N	58.04E	26	4.9b		
BJI	XII	15 00 43 40.9	12.90N	58.00E	26	4.8b,4.8s		
NEIC	XII	15 00 43 40.9	12.94N	58.04E	26	4.9b,4.6s		
EIDC	XII	15 00 43 42.6±.48	12.9N	58.1E	24±2.5	4.2b,4.5s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s24,c31; Half duration: 1$\hat{s}$0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.99±.38; $M_{\theta\theta}$3.44±.47; $M_{\phi\phi}$1.55±.75; $M_{r\theta}$−0.99±2.11; $M_{r\phi}$−1.97±1.50; $M_{\theta\phi}$−1.12±.30. Principal Axes: T 3.96,Plg1°,Azm204°; N 1.75,Plg18°,Azm114°; P −5.71,Plg72°,Azm297°. Best double couple: $M_0$4.8×10^{16}Nm, NP1: ϕ_S312°,δ47°,λ−65°. NP2:ϕ_S97°,δ49°,λ−114°.							
NEIC	Mw5.1(HRV).							
EIDC	Error ellipse is semi−major=13.8km semi−minor=11.8km azimuth=4							
ISC	**XII**	**22 07 42 08.2**±.78	**15.1N**±.14	**54.3E**±.11	**10**	**4.2b**	**14**	**11-87**
NEIC	XII	22 07 42 07.7	15.02N	54.46E	10			**¶97xii4381**
EIDC	XII	22 07 42 08.1±.92	14.9N	54.5E	0	4.0b		
NEIC	Single network solution.							
EIDC	Error ellipse is semi−major=27.3km semi−minor=21.6km azimuth=131							

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
			(421) Carlsberg Ridge.					
ISC	**VII**	**12 10 45 57**±1.1	**2.8S**±.28	**67.7E**±.20	**10**	**3.9b**,3.7s	**8**	**50-152**
NEIC	VII	12 10 45 57.0	2.83S	67.74E	10			¶97vii1803
EIDC	VII	12 10 45 58.2	2.7S	67.8E	0	3.7b,3.7s		
NEIC	Poor solution.							
ISC	**VII**	**13 02 05 30**±1.2	**4.8N**±.40	**60.9E**±.16	**10**	**3.7b,3.8s**	**5**	**40-77**
NEIC	VII	13 02 05 30.2	4.85N	60.86E	10			¶97vii1910
EIDC	VII	13 02 05 30.7	4.8N	60.8E	0	3.9s,3.7b		
NEIC	Poor solution.							
ISC	**VIII**	**25 18 22 41.4**±.80	**6.9S**±.15	**67.9E**±.14	**10**	**4.1b,4.1s**	**26**	**40-149**
BJI	VIII	25 18 22 40.9	7.00S	67.90E	10	4.4b		¶97viii3723
NEIC	VIII	25 18 22 40.9	6.98S	67.85E	10	4.5b		
EIDC	VIII	25 18 22 44.4	7.2S	67.9E	20	3.7b,4.0s		
NEIC	Poor solution.							
ISC	**IX**	**11 06 06 06**±3.4	**2.7S**±.36	**68.1E**±.59	**10**	**3.8b**,3.2s	**5**	**37-152**
EIDC	IX	11 06 06 06.8	2.8S	68.2E	0	3.7b,3.2s		¶97ix1643
ISC	Poorly determined							
ISC	**IX**	**17 21 21 30**±2.3	**0.8S**±.22	**66.5E**±.42	**10**	**4.1b**,3.8s	**10**	**37-150**
EIDC	IX	17 21 21 33.8	0.8S	67.1E	0	3.9b,3.8s		¶97ix2558
ISC	**X**	**20 06 04 39.3**±.77	**1.1N**±.14	**67.0E**±.14	**10**	**4.0b**	**12**	**36-148**
NEIC	X	20 06 04 39.3	1.04N	67.05E	10			¶97x3449
EIDC	X	20 06 04 40.0	1.0N	67.1E	0	4.0b		
NEIC	Poor solution.							
EIDC	**XI**	**04 14 33 39.2**	**4.3N**	**67.4E**	**0**	3.7b		¶97xi0653
ISC	**XI**	**22 09 35 01.7**±.62	**6.0N**±.16	**58.0E**±.12	**10**	**4.0b**	**15**	**39-141**
NEIC	XI	22 09 35 01.7	5.95N	58.03E	10	3.9b		¶97xi3846
EIDC	XI	22 09 35 01.8	5.9N	58.1E	0	3.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**23 11 54 13.0**±.29	**1.29S**±.055	**67.64E**±.049	**10**	**4.8b,4.7s**	**88**	**18-151**
BJI	XI	23 11 54 13.0	1.17S	67.92E	4	5.0b,5.0s		¶97xi4112
NEIC	XI	23 11 54 13.0	1.30S	67.66E	10	4.9b,4.6s		
HRVD	XI	23 11 54 15.9±.5	1.21S±.06	67.57E±.05	15			
EIDC	XI	23 11 54 16.1	1.3S	67.6E	19	4.4b,4.8s		
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c31; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.40±.05; $M_{\theta\theta}$−1.23±.06; $M_{\phi\phi}$1.63±.07; $M_{r\theta}$0.14±.21; $M_{r\phi}$0.29±.19; $M_{\theta\phi}$−0.48±.06. Principal Axes: T 1.74,Plg7°,Azm261°; N −0.40, Plg77°,Azm22°; P −1.34,Plg11°,Azm170°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S306°,δ77°,λ−177°. NP2:ϕ_S215°,δ87°,λ−13°.							
ISC	**XI**	**26 17 11 44**±3.3	**0.6S**±.31	**66.5E**±.59	**10**	**3.8b**	**6**	**37-150**
EIDC	XI	26 17 11 47.1	0.5S	66.9E	0	3.7b		¶97xi4723
ISC	**XII**	**04 02 17 09.1**±.34	**2.55S**±.067	**67.96E**±.065	**10**	**4.8b,4.4s**	**59**	**19-149**
NEIC	XII	04 02 17 08.8	2.53S	67.97E	10	4.8b,4.3s		¶97xii0536
EIDC	XII	04 02 17 09.3±.50	2.6S	68.0E	0	4.6b,4.2s		
BJI	XII	04 02 17 10.0	2.95S	67.99E	34	4.9b,4.8s		
EIDC	Error ellipse is semi−major=16.8km semi−minor=13.3km azimuth=132							
ISC	**XII**	**31 06 48 05.4**±.64	**1.6N**±.15	**66.8E**±.11	**10**	**4.3b,4.1s**	**18**	**36-148**
NEIC	XII	31 06 48 05.3	1.59N	66.83E	10	4.7b		¶97xii5849
EIDC	XII	31 06 48 05.7±.70	1.5N	66.8E	0	4.1b,4.0s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=22.9km semi−minor=18.8km azimuth=172							
			(422) Maldive Islands region.					
ISC	**XI**	**05 09 59 08**±2.3	**2.11S**±.043	**73.79E**±.041	**35**±20	**5.1b,5.2s**	**298**	**16-153**
NEIC	XI	05 09 59 04.2	2.13S	73.84E	10	5.4b,5.3s		¶97xi0764
MOS	XI	05 09 59 04.5	2.1S	73.8E	10	5.5b,5.1s		
BJI	XI	05 09 59 08.1	1.49S	73.50E	5	5.0b,5.4s		
EIDC	XI	05 09 59 09.3	2.1S	73.8E	27	4.7b,5.2s		
HRVD	XI	05 09 59 18.8±.6	1.94S±.06	73.87E±.04	15			
NEIC	Mw5.6(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c42; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.31±.07; $M_{\theta\theta}$−0.98±.10; $M_{\phi\phi}$1.29±.09; $M_{r\theta}$0.85±.32; $M_{r\phi}$−0.18±.28; $M_{\theta\phi}$−1.91±.09. Principal Axes: T 2.50,Plg12°,Azm59°; N −0.21, Plg68°,Azm298°; P −2.28,Plg19°,Azm153°. Best double couple: $M_0$2.4×10^{17}Nm, NP1: ϕ_S195°,δ68°,λ−5°. NP2:ϕ_S287°,δ85°,λ−158°.							
ISC	**XI**	**05 10 08 55.2**±.75	**2.3S**±.16	**73.8E**±.13	**10**	**4.3b**	**10**	**32-153**
NEIC	XI	05 10 08 55.0	2.28S	73.85E	10	4.0b		¶97xi0769
EIDC	XI	05 10 08 55.7	2.3S	73.9E	0	4.2b		
NEIC	Less reliable solution.							
			(425) South Indian Ocean.					
ISC	**VII**	**04 19 27 38.7**±.91	**27.8S**±.20	**66.0E**±.24	**10**	**4.0b,3.8s**	**11**	**56-171**
NEIC	VII	04 19 27 38.1	27.84S	65.91E	10			¶97vii0608
EIDC	VII	04 19 27 38.4	27.8S	65.9E	0	4.0b,3.7s		
NEIC	Poor solution.							
ISC	**VII**	**04 19 58 03**±1.1	**27.6S**±.23	**65.8E**±.28	**10**	**4.1b**,3.7s	**7**	**56-145**
NEIC	VII	04 19 58 03.8	26.98S	65.97E	10	4.2b		¶97vii0610
EIDC	VII	04 19 58 05.9	27.6S	65.7E	15	3.9b,3.6s		
NEIC	Poor solution.							
EIDC	**VII**	**04 20 01 56.0**	**27.8S**	**65.6E**	**0**	**3.7b**		**56-145**
								¶97vii0612
ISC	**VII**	**04 21 05 02**±3.4	**27.7S**±.31	**66.1E**±.72	**10**	**3.8b**,3.9s	**5**	**56-145**
NEIC	VII	04 21 04 59.9	27.60S	65.79E	10			¶97vii0618
EIDC	VII	04 21 05 01.1	27.6S	65.9E	0	3.6b,3.9s		
ISC	Poorly determined							
NEIC	Poor solution.							
EIDC	**VII**	**04 21 43 11.3**	**27.3S**	**66.6E**	**0**	**3.7s,4.0b**		**36-145**
								¶97vii0624
ISC	**VII**	**04 22 27 42**±1.4	**27.9S**±.38	**65.3E**±.24	**10**	**4.0b**,3.5s	**6**	**35-145**
NEIC	VII	04 22 27 42.0	27.82S	65.33E	10			¶97vii0626
EIDC	VII	04 22 27 42.3	27.9S	65.2E	0	3.6s,3.9b		
ISC	Poorly determined							
NEIC	Poor solution.							
ISC	**VII**	**04 22 55 51.9**±.99	**27.7S**±.21	**65.7E**±.24	**10**	**3.9b**,3.9s	**10**	**56-170**
NEIC	VII	04 22 55 51.7	27.67S	65.65E	10			¶97vii0629
EIDC	VII	04 22 55 52.0	27.8S	65.6E	0	3.8b,3.8s		
NEIC	Poor solution.							
ISC	**VII**	**04 23 23 57.5**±.88	**27.7S**±.17	**65.7E**±.22	**10**	**4.5b,4.5s**	**15**	**56-170**
NEIC	VII	04 23 23 57.4	27.69S	65.67E	10	5.0b,4.8s		¶97vii0636
EIDC	VII	04 23 23 57.5	27.7S	65.6E	0	4.1b,3.9s		
BJI	VII	04 23 23 58.9	27.50S	66.32E	5	4.8b,5.1s		
NEIC	Poor solution.							
EIDC	**VII**	**04 23 45 39.5**	**27.7S**	**65.7E**	**0**	**3.6b**		**56-145**
								¶97vii0640
EIDC	**VII**	**04 23 54 03.6**	**27.8S**	**66.3E**	**0**	**3.9b**		**56-145**
								¶97vii0642
ISC	**VII**	**05 01 20 51.0**±.82	**27.7S**±.19	**65.7E**±.19	**10**	**4.2b,4.0s**	**13**	**45-153**
NEIC	VII	05 01 20 50.8	27.68S	65.68E	10			¶97vii0657
EIDC	VII	05 01 20 51.2	27.7S	65.7E	0	4.0b,4.0s		
NEIC	Less reliable solution.							
ISC	**VII**	**05 03 38 08.3**±.53	**27.7S**±.13	**65.7E**±.14	**10**	**4.7b,4.2s**	**36**	**40-170**
BJI	VII	05 03 38 06.2	27.95S	65.56E	9	5.0b		¶97vii0669
EIDC	VII	05 03 38 08.3	27.7S	65.6E	0	4.5b,4.0s		
NEIC	VII	05 03 38 08.9	27.51S	65.74E	10	5.0b		
NEIC	Less reliable solution.							
ISC	**VII**	**05 04 20 03.1**±.56	**27.6S**±.14	**65.7E**±.13	**10**	**4.2b**,3.8s	**15**	**36-164**
NEIC	VII	05 04 20 03.1	27.63S	65.70E	10	4.9b		¶97vii0674
EIDC	VII	05 04 20 03.4	27.6S	65.6E	0	4.1b,3.8s		
NEIC	Less reliable solution.							
EIDC	**VII**	**05 08 13 26.4**	**27.8S**	**65.9E**	**0**	**3.7b**		**56-145**
								¶97vii0701
ISC	**VII**	**05 08 50 09.8**±.89	**27.7S**±.21	**65.9E**±.21	**10**	**4.1b**	**8**	**56-145**
NEIC	VII	05 08 50 09.5	27.67S	65.92E	10			¶97vii0704
EIDC	VII	05 08 50 10.0	27.6S	66.0E	0	4.0b		
NEIC	Poor solution.							
ISC	**VII**	**05 09 40 16.8**±.58	**27.8S**±.15	**65.7E**±.12	**10**	**4.3b,3.7s**	**26**	**36-171**
EIDC	VII	05 09 40 16.4	27.7S	65.5E	0	4.2b,3.7s		¶97vii0709
NEIC	VII	05 09 40 16.8	27.76S	65.72E	10	4.8b		
NEIC	Less reliable solution.							
ISC	**VII**	**05 10 47 59.4**±.98	**28.0S**±.25	**65.3E**±.17	**10**	**4.3b**,3.6s	**16**	**35-169**
NEIC	VII	05 10 47 59.0	28.04S	65.38E	10			¶97vii0716
EIDC	VII	05 10 48 06.2	27.9S	65.3E	46	4.0b,3.8s		
NEIC	Poor solution.							
ISC	**VII**	**05 11 42 57.3**±.49	**27.5S**±.11	**65.8E**±.15	**10**	**4.4b,4.0s**	**27**	**40-171**
EIDC	VII	05 11 42 57.1	27.6S	65.6E	0	4.3b,4.0s		¶97vii0721
NEIC	VII	05 11 42 57.3	27.53S	65.77E	10	4.7b		
NEIC	Less reliable solution.							
ISC	**VII**	**05 11 49 24.8**±.73	**27.6S**±.18	**65.8E**±.18	**10**	**4.2b**	**16**	**56-150**
EIDC	VII	05 11 49 24.3	27.8S	65.7E	0	4.2b		¶97vii0722
NEIC	VII	05 11 49 24.6	27.64S	65.80E	10	4.6b		
NEIC	Less reliable solution.							
ISC	**VII**	**05 13 13 38**±1.7	**27.7S**±.46	**65.6E**±.29	**10**	**3.7b**	**5**	**56-145**
NEIC	VII	05 13 13 37.9	27.69S	65.60E	10			¶97vii0733
EIDC	VII	05 13 13 38.7	27.7S	65.6E	0	3.5b		
ISC	Poorly determined							
NEIC	Poor solution.							
ISC	**VII**	**05 13 46 23**±1.6	**27.6S**±.44	**65.4E**±.28	**10**	**3.9b**	**5**	**56-145**
NEIC	VII	05 13 46 23.2	27.65S	65.43E	10			¶97vii0737
EIDC	VII	05 13 46 23.5	27.8S	65.3E	0	3.8b		
ISC	Poorly determined							
NEIC	Poor solution.							
ISC	**VII**	**05 14 21 31**±1.2	**28.1S**±.23	**65.4E**±.27	**10**	**3.7b**	**5**	**40-146**
EIDC	VII	05 14 21 34.9	28.1S	65.4E	19	3.6b		¶97vii0739
ISC	Poorly determined							
ISC	**VII**	**05 14 32 44.3**±.57	**27.6S**±.14	**65.7E**±.15	**10**	**4.4b**,3.8s	**23**	**56-168**
BJI	VII	05 14 32 44.0	27.60S	65.70E	10	4.7b		¶97vii0743
NEIC	VII	05 14 32 44.0	27.61S	65.72E	10	4.7b		
EIDC	VII	05 14 32 46.9	27.7S	65.7E	16	4.1b,3.8s		
NEIC	Less reliable solution.							
ISC	**VII**	**05 16 00 53**±1.3	**27.7S**±.28	**65.4E**±.30	**10**	**4.1b**	**5**	**56-145**
NEIC	VII	05 16 00 53.4	27.73S	65.39E	10			¶97vii0748
EIDC	VII	05 16 01 02.1	27.8S	65.3E	63	3.7b		
ISC	Poorly determined							
NEIC	Poor solution.							
ISC	**VII**	**05 16 17 42.8**±.79	**27.7S**±.14	**66.1E**±.23	**10**	**4.3b**,3.5s	**11**	**40-165**
NEIC	VII	05 16 17 42.1	27.73S	66.03E	10	4.5b		¶97vii0749
EIDC	VII	05 16 17 43.2	27.7S	66.1E	0	4.1b,3.5s		
NEIC	Poor solution.							
ISC	**VII**	**05 16 48 04**±1.1	**27.6S**±.24	**65.7E**±.25	**10**	**3.9b**,3.7s	**6**	**56-145**
NEIC	VII	05 16 48 03.2	27.61S	65.69E	10			¶97vii0753
EIDC	VII	05 16 48 04.2	27.7S	65.7E	0	3.7b,3.7s		
NEIC	Poor solution.							
EIDC	**VII**	**05 17 18 56.0**	**27.8S**	**65.6E**	**0**	3.6b		**56-145**
								¶97vii0758
EIDC	**VII**	**05 17 41 22.4**	**27.5S**	**65.8E**	**0**	**3.7b**		**56-145**
								¶97vii0760
ISC	**VII**	**05 18 53 06**±1.1	**27.1S**±.19	**65.9E**±.25	**10**	**3.8b**	**6**	**41-145**
NEIC	VII	05 18 53 05.9	27.10S	65.91E	10			¶97vii0768
EIDC	VII	05 18 53 06.7	27.1S	65.9E	0	3.7b		
NEIC	Poor solution.							
EIDC	**VII**	**05 18 58 14.5**	**27.5S**	**66.0E**	**0**	**3.6b**		**56-145**
								¶97vii0770
ISC	**VII**	**05 20 08 13.4**±.70	**27.7S**±.18	**65.7E**±.14	**10**	**4.1b**,3.6s	**15**	**39-153**
NEIC	VII	05 20 08 13.3	27.69S	65.65E	10			¶97vii0782
EIDC	VII	05 20 08 13.5	27.6S	65.6E	0	4.1b,3.6s		
NEIC	Less reliable solution.							
ISC	**VII**	**05 20 55 27.4**±.66	**27.5S**±.13	**65.2E**±.18	**10**	**4.0b**,3.6s	**12**	**39-145**
BJI	VII	05 20 55 27.3	27.50S	65.20E	10			¶97vii0791
NEIC	VII	05 20 55 27.3	27.49S	65.21E	10	4.6b		
EIDC	VII	05 20 55 27.8	27.5S	65.2E	0	4.0b,3.6s		
NEIC	Less reliable solution.							
ISC	**VII**	**06 00 20 07**±1.2	**27.7S**±.18	**65.9E**±.33	**10**	**4.3b**	**12**	**40-171**
EIDC	VII	06 00 20 05.8	27.8S	65.7E	0	4.2b		¶97vii0813
NEIC	VII	06 00 20 06.0	27.76S	65.80E	10	4.5b		
NEIC	Poor solution.							
EIDC	**VII**	**06 01 54 44.3**	**27.7S**	**65.6E**	**0**	3.9b,3.7s		**56-145**
								¶97vii0822
ISC	**VII**	**06 03 30 01**±1.0	**27.7S**±.19	**65.9E**±.26	**10**	**4.3b**	**11**	**56-168**
EIDC	VII	06 03 29 59.4	27.9S	65.5E	0	4.2b,3.7s		¶97vii0833
NEIC	VII	06 03 30 00.3	27.74S	65.82E	10	4.6b		
NEIC	Poor solution.							
EIDC	**VII**	**06 15 36 14.7**	**28.1S**	**65.7E**	**0**	**3.9b**		**56-146**
								¶97vii0901
ISC	**VII**	**06 16 49 47**±4.9	**27.4S**±.57	**66.0E**±.94	**10**	**3.9b**	**8**	**56-147**
EIDC	VII	06 16 49 45.9	27.7S	65.8E	0	3.8b		¶97vii0909
NEIC	VII	06 16 49 46.4	27.51S	65.95E	10			
NEIC	Poor solution.							
ISC	**VII**	**07 02 29 39.4**±.57	**2.74S**±.084	**88.56E**±.084	**10**	**4.4b**,3.9s	**28**	**11-151**
BJI	VII	07 02 29 32.1	3.66S	88.52E	10	4.6b		¶97vii0976
NEIC	VII	07 02 29 39.2	2.74S	88.42E	10	4.2b		
EIDC	VII	07 02 29 39.7	2.7S	88.4E	0	4.2b,3.9s		
NEIC	Less reliable solution.							
EIDC	**VII**	**11 07 34 53.4**	**36.4S**	**53.3E**	**19**	**3.6b**		**53-153**
								¶97vii1644

ISC	**VII**	**11 10 33 50.5**±.54	**35.6S**±.16	**54.6E**±.12	**10**	**4.5b**,4.3s	**22 26-166**
NEIC	VII	11 10 33 50.6	35.55S	54.60E	10	4.5b	**¶97vii1671**
EIDC	VII	11 10 33 50.6	35.6S	54.6E	0	4.4b,4.1s	
NEIC	Less reliable solution.						
ISC	**VIII**	**14 08 25 25**±2.9	**14.3S**±.43	**62.6E**±.51	**10**	**4.1b**,4.3s	**6 48-140**
EIDC	VIII	14 08 25 26.8	14.3S	62.9E	0	4.2s,3.9b	**¶97viii2026**
ISC	Poorly determined						
ISC	**VIII**	**19 18 12 18**±1.9	**27.0S**±.21	**66.9E**±.42	**10**	**4.0b**	**6 55-82**
NEIC	VIII	19 18 12 17.5	27.05S	66.89E	10	4.1b	**¶97viii2849**
EIDC	VIII	19 18 12 18.7	27.1S	67.0E	0	3.9b	
NEIC	Poor solution.						
EIDC	**IX**	**03 09 28 02.7**	**26.6S**	**68.8E**	**0**	**3.6b**	**¶97ix0410**
EIDC	LO CONF Location						
ISC	**IX**	**12 16 48 24**±4.6	**0.55S**±.041	**86.80E**±.044	**13**±28	**4.9b,4.5s**	**139 12-150**
BJI	IX	12 16 48 21.1	1.31S	86.64E	33	5.1b,4.7s	**¶97ix1847**
NEIC	IX	12 16 48 26.6	0.48S	86.85E	33	4.9b,4.3s	
HRVD	IX	12 16 48 26.8±.6	0.44S±.08	86.73E±.06	15		
MOS	IX	12 16 48 27.0	0.4S	86.9E	33	5.5b,4.3s	
EIDC	IX	12 16 48 29.1	0.6S	86.7E	40	4.4b,4.3s	
NEIC	Mw5.2(HRV).						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c36; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.21±.37; $M_{\theta\theta}$−4.81±.46; $M_{\phi\phi}$5.02±.59; $M_{r\theta}$0.40±1.46; $M_{r\phi}$0.58±1.69; $M_{\theta\phi}$−5.94±.39. Principal Axes: T 7.83,Plg3°,Azm245°; N −0.18,Plg85°,Azm4°; P −7.65,Plg5°,Azm155°. Best double couple: $M_0$7.7×10^{16}Nm, NP1: ϕ_S290°,δ85°,λ−179°. NP2:ϕ_S200°,δ89°,λ−5°.

ISC	**IX**	**15 10 41 20**±3.0	**28.2S**±.28	**71.5E**±.63	**10**	**3.7b**	**4 53-63**
EIDC	IX	15 10 41 21.1	28.2S	71.5E	0	3.6b	**¶97ix2228**
ISC	Poorly determined						
ISC	**IX**	**15 20 34 05**±1.4	**24.9S**±.53	**50.6E**±.31	**10**	**4.2b**	**4 27-95**
EIDC	IX	15 20 34 04.9	25.0S	50.6E	0	4.2b	**¶97ix2282**
ISC	Poorly determined						
EIDC	LO CONF Location						
EIDC	**IX**	**23 14 12 44.2**	**29.3S**	**66.8E**	**0**	**3.7b**	**¶97ix3431**
EIDC	LO CONF Location						
ISC	**IX**	**23 20 43 17**±1.4	**28.6S**±.19	**84.7E**±.31	**10**	**4.3b**,3.9s	**6 41-62**
NEIC	IX	23 20 43 16.6	28.60S	84.68E	10	4.7b	**¶97ix3474**
EIDC	IX	23 20 43 16.9	28.6S	84.7E	0	4.2b,3.9s	
NEIC	Poor solution.						
ISC	**IX**	**29 02 26 13.2**±.89	**55.9S**±.15	**112.3E**±.41	**10**	**4.0b**	**12 25-148**
EIDC	IX	29 02 26 13.2	55.9S	112.2E	0	4.0b	**¶97ix4835**
ISC	**X**	**04 18 41 49.0**±.36	**26.6S**±.10	**67.75E**±.066	**10**	**4.7b,4.4s**	**34 20-164**
NEIC	X	04 18 41 49.0	26.54S	67.78E	10	4.9b	**¶97x0704**
EIDC	X	04 18 41 49.3	26.6S	67.7E	0	4.5b,4.4s	
EIDC	**X**	**04 21 45 19.5**	**28.8S**	**58.7E**	**0**	**3.9b**	**¶97x0738**
EIDC	LO CONF Location						
EIDC	**X**	**04 21 48 14.2**	**27.3S**	**66.1E**	**0**	**3.7b**	**¶97x0741**
EIDC	LO CONF Location						
ISC	**X**	**04 22 48 13**±5.1	**26.8S**±.59	**67.4E**±.94	**10**	**4.0b**	**4 54-82**
EIDC	X	04 22 48 14.0	26.8S	67.6E	0	3.9b	**¶97x0751**
ISC	Poorly determined						
EIDC	**X**	**14 04 24 23.1**	**38.4S**	**72.7E**	**0**	**3.8b**	**¶97x2338**
ISC	**XI**	**01 06 25 46.9**±.33	**27.68S**±.071	**65.61E**±.066	**10**	**5.1b,4.6s**	**91 18-170**
BJI	XI	01 06 25 46.8	27.70S	65.60E	10	5.0b	**¶97xi0039**
NEIC	XI	01 06 25 46.8	27.69S	65.55E	10	5.2b,4.3s	
EIDC	XI	01 06 25 47.0	27.6S	65.6E	0	4.6b	
HRVD	XI	01 06 25 54.8±.6	27.48S±.06	65.34E±.12	15		
NEIC	Mw5.1(HRV).						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s15,c17; Half duration: 1s1. Moment tensor: Scale 10^{16}Nm; M_{rr}−3.67±.67; $M_{\theta\theta}$4.90±.51; $M_{\phi\phi}$−1.23±1.03; $M_{r\theta}$0.00±.00; $M_{r\phi}$0.00±.00; $M_{\theta\phi}$0.51±.55. Principal Axes: T 4.94,Plg0°,Azm175°; N −1.28, Plg0°,Azm85°; P −3.67,Plg90°,Azm180°. Best double couple: $M_0$4.3×10^{16}Nm, NP1:ϕ_S265°, δ45°,λ−90°. NP2:ϕ_S85°,δ45°,λ−90°.

ISC	**XI**	**01 07 53 15**±1.8	**27.6S**±.23	**66.0E**±.45	**10**	**4.3b**,3.5s	**8 40-164**
EIDC	XI	01 07 53 14.3	27.5S	65.7E	0	4.1b,3.5s	**¶97xi0044**
NEIC	XI	01 07 53 15.0	27.64S	65.97E	10		
NEIC	Poor solution.						
ISC	**XI**	**01 20 30 24.9**±.80	**28.0S**±.16	**66.2E**±.18	**33**	**4.1b**,3.5s	**11 40-145**
EIDC	XI	01 20 30 21.8	27.9S	66.2E	0	4.0b,3.5s	**¶97xi0136**
NEIC	XI	01 20 30 24.3	27.96S	66.24E	33	4.6b	
NEIC	Poor solution.						
ISC	**XI**	**01 22 35 05**±1.6	**28.3S**±.20	**64.9E**±.48	**10**	**4.1b**,3.4s	**6 39-88**
EIDC	XI	01 22 35 04.6	28.2S	64.8E	0	4.0b,3.4s	**¶97xi0151**
ISC	**XI**	**02 02 54 11.7**±.75	**27.6S**±.15	**65.4E**±.17	**10**	**4.4b**,3.5s	**14 35-164**
NEIC	XI	02 02 54 11.3	27.58S	65.37E	10	4.4b	**¶97xi0185**
EIDC	XI	02 02 54 11.7	27.6S	65.4E	0	4.2b,3.9s	
NEIC	Less reliable solution.						
ISC	**XI**	**02 03 25 31**±1.3	**28.3S**±.35	**65.5E**±.23	**10**	**4.3b**	**6 35-146**
NEIC	XI	02 03 25 30.8	28.32S	65.48E	10	4.7b	**¶97xi0190**
EIDC	XI	02 03 25 31.3	28.2S	65.4E	0	4.1b	
NEIC	Poor solution.						
ISC	**XI**	**02 11 17 13.3**±.91	**27.5S**±.16	**65.8E**±.30	**10**	**4.2b**,3.5s	**8 40-145**
NEIC	XI	02 11 17 12.9	27.54S	65.76E	10	4.6b	**¶97xi0247**
EIDC	XI	02 11 17 13.5	27.5S	65.8E	0	4.1b,3.6s	
NEIC	Poor solution.						
ISC	**XI**	**02 14 44 11.5**±.46	**27.74S**±.095	**65.8E**±.11	**10**	**4.7b,4.1s**	**44 40-173**
EIDC	XI	02 14 44 11.3	27.7S	65.7E	0	4.4b,4.0s	**¶97xi0278**
BJI	XI	02 14 44 11.5	27.70S	65.90E	10	4.7b	
NEIC	XI	02 14 44 11.5	27.72S	65.88E	10	4.9b,4.5s	
NEIC	Less reliable solution.						
ISC	**XI**	**04 03 01 33.6**±.46	**27.7S**±.10	**65.62E**±.087	**10**	**4.4b,3.8s**	**24 19-145**
BJI	XI	04 03 01 32.0	27.70S	65.60E	10	4.4b	**¶97xi0561**
NEIC	XI	04 03 01 33.4	27.71S	65.60E	10	5.1b	
EIDC	XI	04 03 01 33.7	27.7S	65.6E	0	4.4b,3.8s	
NEIC	Less reliable solution.						
EIDC	**XI**	**13 09 42 32.9**	**26.1S**	**70.3E**	**0**	**4.1b**	**¶97xi2113**
EIDC	**XI**	**18 11 46 30.7**	**2.0S**	**89.6E**	**0**	**3.5b**	**¶97xi2955**
EIDC	LO CONF Location						
ISC	**XII**	**05 21 19 52.6**±.58	**23.3S**±.11	**77.5E**±.12	**10**	**4.7b**	**19 46-153**
NEIC	XII	05 21 19 52.0	23.18S	77.39E	10	4.9b	**¶97xii1100**
EIDC	XII	05 21 19 52.1±.75	23.3S	77.4E	0	4.4b	
NEIC	Less reliable solution.						

EIDC Error ellipse is semi−major=24.4km semi−minor=20.8km azimuth=163

ISC	**XII**	**22 06 25 23**±1.1	**10.1S**±.24	**77.6E**±.28	**10**	**4.1b**	**6 55-127**
EIDC	XII	22 06 25 22.8±1.00	10.0S	77.6E	0	4.1b	**¶97xii4368**

EIDC Error ellipse is semi−major=42.3km semi−minor=27.7km azimuth=58

(426) Chagos Archipelago region.

ISC	**VIII**	**13 02 47 11.2**±.72	**3.6S**±.18	**68.4E**±.12	**10**	**4.2b,3.7s**	**19 37-153**
EIDC	VIII	13 02 47 11.5	3.7S	68.4E	0	4.1b,3.7s	**¶97viii1843**
NEIC	VIII	13 02 47 11.7	3.57S	68.41E	10		
NEIC	Less reliable solution.						
ISC	**IX**	**09 16 48 31**±1.9	**3.7S**±.33	**68.5E**±.27	**10**	**3.8b**,3.6s	**8 37-153**
NEIC	IX	09 16 48 30.3	3.72S	68.49E	10		**¶97ix1410**
EIDC	IX	09 16 48 30.5	3.9S	68.4E	0	3.8b,3.6s	
NEIC	Poor solution.						
ISC	**IX**	**28 23 16 27.7**±.76	**3.6S**±.15	**68.2E**±.11	**33**	**4.0b**,4.5s	**25 23-153**
BJI	IX	28 23 16 28.1	3.50S	68.20E	33		**¶97ix4787**
NEIC	IX	28 23 16 28.1	3.48S	68.22E	33	4.8b	
EIDC	IX	28 23 16 28.3	3.8S	68.2E	22	3.8b,4.4s	
NEIC	Poor solution.						
EIDC	**X**	**22 14 47 44.0**	**3.3S**	**68.5E**	**0**	**3.7b**	**¶97x3835**
ISC	**XI**	**16 21 44 55.7**±.67	**3.4S**±.15	**68.3E**±.14	**10**	**4.5b**,4.4s	**16 19-79**
BJI	XI	16 21 44 54.8	3.40S	68.30E	10	4.6b	**¶97xi2699**
NEIC	XI	16 21 44 55.8	3.43S	68.31E	10	5.0b,4.4s	
EIDC	XI	16 21 44 56.0	3.3S	68.3E	0	4.2b	
NEIC	Less reliable solution.						

(427) Mascarene Islands region.

ISC	**VII**	**05 09 28 29**±1.0	**20.5S**±.32	**63.6E**±.19	**10**	**4.1b**	**6 36-89**
EIDC	VII	05 09 28 29.2	20.4S	63.6E	0	3.9b,3.9s	**¶97vii0708**
ISC	**VIII**	**09 00 49 50**±1.2	**20.2S**±.29	**66.6E**±.18	**10**	**3.9b**	**10 50-157**
EIDC	VIII	09 00 49 50.9	20.1S	66.7E	0	3.9b	**¶97viii1186**
ISC	**VIII**	**14 07 49 51.2**±.36	**20.24S**±.084	**66.97E**±.056	**10**	**4.8b,4.9s**	**182 18-168**
BJI	VIII	14 07 49 50.3	19.99S	66.80E	8	5.0b,5.1s	**¶97viii2024**
NEIC	VIII	14 07 49 50.7	20.32S	66.98E	10	5.2b,5.0s	
MOS	VIII	14 07 49 50.8	20.1S	67.1E	10	5.4b,4.7s	
EIDC	VIII	14 07 49 51.2	20.3S	67.0E	0	4.5b,4.7s	
ISC	**X**	**14 20 22 45**±1.1	**20.9S**±.32	**66.0E**±.19	**10**	**4.2b**	**6 38-64**
NEIC	X	14 20 22 45.7	20.87S	66.08E	10	4.2b	**¶97x2486**
EIDC	X	14 20 22 45.7	20.9S	66.0E	0	4.0b	
NEIC	Poor solution.						

(428) Atlantic-Indian Ridge.

ISC	**VII**	**01 12 29 17.6**±.49	**36.5S**±.12	**52.3E**±.13	**10**	**4.5b,4.5s**	**33 24-165**
NEIC	VII	01 12 29 17.2	36.51S	52.39E	10	4.6b,4.3s	**¶97vii0086**
EIDC	VII	01 12 29 17.2	36.5S	52.3E	0	4.3b,4.4s	
BJI	VII	01 12 29 19.9	36.36S	52.32E	19	5.0b	
NEIC	Less reliable solution.						
EIDC	**VII**	**06 05 24 29.7**	**27.9S**	**64.6E**	**0**	3.8b	**57-145**
								¶97vii0839
NEIC	**VII**	**10 23 25 16.3**	**34.70S**	**54.58E**	**10**	4.1b	**52-151**
EIDC	VII	10 23 25 16.0	34.7S	54.5E	0	4.1b	**¶97vii1586**
NEIC	Poor solution.						
ISC	**VII**	**10 23 41 42.9**±.20	**34.68S**±.046	**54.57E**±.054	**10**	**5.1b,5.1s**	**231 16-174**
BJI	VII	10 23 41 40.9	34.85S	54.30E	13	5.4b,5.2s	**¶97vii1589**
EIDC	VII	10 23 41 41.9	34.8S	54.5E	0	4.7b	
MOS	VII	10 23 41 42.8	34.6S	54.5E	10	5.8b,4.9s	
NEIC	VII	10 23 41 42.9	34.69S	54.61E	10	5.3b,5.0s	
HRVD	VII	10 23 41 46.6±.2	34.58S±.03	54.69E±.04	15		
NEIC	Mw5.4(HRV).						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c74; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.37±.04; $M_{\theta\theta}$1.46±.04; $M_{\phi\phi}$−0.10±.06; $M_{r\theta}$0.04±.16; $M_{r\phi}$0.01±.12; $M_{\theta\phi}$−0.36±.04. Principal Axes: T 1.54,Plg1°,Azm12°; N −0.18, Plg1°,Azm282°; P −1.37,Plg89°,Azm135°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S103°,δ44°,λ−89°. NP2:ϕ_S281°,δ46°,λ−91°.

ISC	**VII**	**11 00 41 48.3**±.47	**34.87S**±.078	**54.5E**±.11	**10**	**4.5b,4.1s**	**41 16-165**
EIDC	VII	11 00 41 47.9	34.7S	54.5E	0	4.3b,4.1s	**¶97vii1598**
NEIC	VII	11 00 41 48.1	34.92S	54.40E	10	4.7b	
BJI	VII	11 00 41 49.5	34.04S	55.08E	5	5.1b	
NEIC	Less reliable solution.						
ISC	**VII**	**22 18 00 21.7**±.55	**31.5S**±.12	**58.4E**±.11	**10**	**4.5b,4.3s**	**38 15-164**
BJI	VII	22 18 00 21.5	31.50S	58.40E	10	4.7b	**¶97vii3407**
NEIC	VII	22 18 00 21.5	31.54S	58.42E	10	4.7b,4.6s	
EIDC	VII	22 18 00 21.6	31.7S	58.4E	0	4.4b,4.2s	
NEIC	Less reliable solution.						
ISC	**IX**	**03 09 11 05**±1.2	**28.3S**±.40	**62.3E**±.20	**10**	**4.2b**	**5 42-65**
NEIC	IX	03 09 11 04.6	28.32S	62.29E	10	4.2b	**¶97ix0406**
EIDC	IX	03 09 11 05.2	28.3S	62.2E	0	4.0b,3.7s	
NEIC	Poor solution.						
ISC	**IX**	**03 22 24 27**±1.7	**30.7S**±.44	**59.8E**±.31	**10**	**4.2b**	**11 16-166**
EIDC	IX	03 22 24 25.0	30.9S	59.3E	0	4.1b,3.5s	**¶97ix0502**
NEIC	IX	03 22 24 25.3	30.81S	59.42E	10	3.9b	
NEIC	Poor solution.						
EIDC	**IX**	**04 12 50 31.6**	**26.4S**	**63.8E**	**0**	**4.0b**	**¶97ix0594**
ISC	**IX**	**08 17 57 12.8**±.21	**29.32S**±.055	**60.95E**±.042	**10**	**5.2b,4.8s**	**249 16-175**
EIDC	IX	08 17 57 12.5	29.4S	61.0E	0	4.9b,4.5s	**¶97ix1257**
NEIC	IX	08 17 57 13.1	29.30S	61.03E	10	5.2b,5.0s	
BJI	IX	08 17 57 14.3	28.85S	61.62E	2	5.3b,5.1s	
HRVD	IX	08 17 57 17.5±.6	29.39S±.06	61.05E±.06	15		
NEIC	Mw5.3(HRV).						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c54; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−6.96±.31; $M_{\theta\theta}$8.50±.36; $M_{\phi\phi}$−1.54±.47; $M_{r\theta}$3.55±1.25; $M_{r\phi}$1.14±1.21; $M_{\theta\phi}$2.25±.35. Principal Axes: T 9.80,Plg12°,Azm348°; N −2.00,Plg3°,Azm257°; P −7.80,Plg77°,Azm152°. Best double couple: $M_0$8.8×10^{16}Nm, NP1: ϕ_S82°,δ33°,λ−84°. NP2:ϕ_S255°,δ58°,λ−94°.

EIDC	**X**	**04 18 32 06.1**	**28.5S**	**60.4E**	**26**	**3.8b**	**¶97x0701**
EIDC	LO CONF Location						
EIDC	**X**	**04 20 11 16.1**	**28.2S**	**61.7E**	**0**	**3.6b**	**¶97x0718**
EIDC	**X**	**04 20 12 16.6**	**28.1S**	**62.0E**	**0**	**3.6b**	**¶97x0719**
EIDC	LO CONF Location						
ISC	**XI**	**01 22 07 07.9**±.81	**31.7S**±.21	**60.2E**±.15	**10**	**4.3b**,3.7s	**10 17-149**
NEIC	XI	01 22 07 07.7	31.67S	60.19E	10		**¶97xi0145**
EIDC	XI	01 22 07 08.0	31.6S	60.1E	0	4.2b,3.8s	
NEIC	Poor solution.						
ISC	**XI**	**05 07 57 38.4**±.73	**37.2S**±.25	**47.8E**±.17	**10**	**3.9b**	**11 21-151**
EIDC	XI	05 07 57 38.2	37.3S	47.8E	0	3.8b	**¶97xi0751**
NEIC	XI	05 07 57 38.3	37.25S	47.82E	10		
NEIC	Single network solution.						
ISC	**XI**	**25 11 10 24**±1.1	**35.9S**±.41	**53.5E**±.25	**10**	**4.3b**	**9 36-149**
EIDC	XI	25 11 10 23.6	35.7S	53.4E	0	4.1b,4.0s	**¶97xi4492**
NEIC	XI	25 11 10 24.0	35.95S	53.43E	10	4.2b	
NEIC	Poor solution.						
ISC	**XII**	**17 14 03 39**±1.1	**36.2S**±.39	**52.6E**±.21	**10**	**3.9b**	**9 24-153**
EIDC	XII	17 14 03 38.4±1.16	36.4S	52.5E	0	3.8b	**¶97xii3611**
NEIC	XII	17 14 03 38.6	36.24S	52.62E	10	3.8b	

EIDC Error ellipse is semi−major=59.3km semi−minor=22.2km azimuth=18
NEIC Poor solution.

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII**	**27 00 32 57.8**±.83	**36.3S**±.11	**52.5E**±.16	**10**	**4.2b**,3.5s	**17**	**17-159**
NEIC	XII	27 00 32 57.8	35.93S	52.60E	10			**¶97xii5214**
EIDC	XII	27 00 33 02.4±.91	36.2S	52.5E	30±3.9	4.0b,3.6s		
NEIC	Single network solution.							
EIDC	Error ellipse is semi−major=42.0km semi−minor=15.2km azimuth=5							

(429) Mid-Indian Rise.

ISC	**VII**	**19 20 39 32.7**±.69	**31.4S**±.15	**76.8E**±.17	**10**	**4.1b,3.9s**	**10**	**44-148**
NEIC	VII	19 20 39 32.8	31.43S	76.86E	10	4.3b		**¶97vii2952**
EIDC	VII	19 20 39 32.8	31.4S	76.9E	0	4.0b,3.9s		
NEIC	Less reliable solution.							
ISC	**VII**	**21 10 11 06**±1.3	**7.8S**±.30	**67.7E**±.17	**10**	**4.2b**	**20**	**40-157**
EIDC	VII	21 10 11 05.4	7.7S	67.6E	0	3.9b		**¶97vii3226**
NEIC	VII	21 10 11 06.5	7.63S	67.74E	10	4.8b		
NEIC	Poor solution.							
ISC	**VII**	**21 10 20 48**±2.7	**8.2S**±.36	**67.6E**±.41	**10**	**4.3b**	**15**	**41-152**
BJI	VII	21 10 20 48.6	8.06S	67.80E	13	4.6b		**¶97vii3227**
NEIC	VII	21 10 20 49.0	8.02S	67.89E	10			
EIDC	VII	21 10 20 49.3	8.0S	67.9E	0	4.2b		
NEIC	Poor solution.							
ISC	**VII**	**21 18 09 45**±1.3	**17.7S**±.30	**67.2E**±.22	**10**	**4.2b**	**6**	**48-145**
NEIC	VII	21 18 09 45.2	17.71S	67.20E	10	4.7b		**¶97vii3272**
EIDC	VII	21 18 09 46.5	17.5S	67.2E	0	3.9b		
NEIC	Poor solution.							
ISC	**VIII**	**07 15 05 22**±1.3	**15.1S**±.30	**67.0E**±.20	**10**	**3.8b**	**7**	**46-152**
NEIC	VIII	07 15 05 21.9	15.10S	67.02E	10			**¶97viii0957**
EIDC	VIII	07 15 05 21.9	14.9S	67.0E	0	3.7b		
NEIC	Poor solution.							
ISC	**VIII**	**14 07 45 34.9**±.49	**20.10S**±.098	**67.2E**±.11	**10**	**4.5b,4.8s**	**48**	**39-168**
MOS	VIII	14 07 45 33.8	20.1S	67.2E	10	5.2b		**¶97viii2023**
NEIC	VIII	14 07 45 34.9	19.96S	67.25E	10	4.7b		
BJI	VIII	14 07 45 35.5	19.83S	67.38E	9	5.0b,5.3s		
EIDC	VIII	14 07 45 38.9	20.1S	67.9E	0	4.0b		
NEIC	Poor solution.							
ISC	**VIII**	**15 18 23 52.8**±.82	**10.8S**±.20	**66.2E**±.13	**10**	**4.0b**	**12**	**20-159**
NEIC	VIII	15 18 23 53.5	10.57S	66.36E	10	4.3b		**¶97viii2249**
EIDC	VIII	15 18 23 57.0	10.7S	66.3E	20	3.7b		
NEIC	Poor solution.							
ISC	**VIII**	**20 11 34 22**±1.1	**42.5S**±.21	**78.5E**±.24	**10**	**4.1b,4.1s**	**8**	**48-146**
EIDC	VIII	20 11 34 22.1	42.5S	78.5E	0	4.0b,4.1s		**¶97viii2952**
ISC	**VIII**	**20 13 51 16.9**±.21	**41.79S**±.045	**80.18E**±.049	**10**	**5.4b,6.3s**	**267**	**26-177**
EIDC	VIII	20 13 51 16.4	41.6S	80.2E	0	5.1b		**¶97viii2969**
NEIC	VIII	20 13 51 16.6	41.72S	80.13E	10	5.6b,6.4s		
MOS	VIII	20 13 51 16.7	41.9S	80.1E	10	6.0b,6.3s		
BJI	VIII	20 13 51 17.6	41.54S	79.80E	24	5.7b,6.5s		
HRVD	VIII	20 13 51 25.4±.1	41.43S±.01	79.99E±.01	15			
NEIC	Me6.9(GS), Mw6.5(GS).							
NEIC	Mw 6.5 (HRV).							
NEIC	Radiated energy from the P−wave first−motion solution: 4.5±1.4×10^{14}Nm/6							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S140°,δ88°,λ−2°. NP2:ϕ_S230°,δ88°,λ−178°. Principal axes: T Plg0°,Azm5°; P Plg3°,Azm95°. Depth from synthetics of broadband displacement seismograms.							
NEIC	Moment tensor solution: s17, scale 10^{18}Nm; M_{rr}0.33; $M_{\theta\theta}$5.54; $M_{\phi\phi}$−5.87; $M_{r\theta}$−0.77; $M_{r\theta}$−0.77; $M_{\theta\phi}$−0.38. Depth 8km; Principal axes: T 5.65,Plg8°,Azm181°; N 0.33,Plg79°, Azm44°; P −5.99,Plg7°,Azm272°. Best double couple: $M_0$5.8×10^{18}Nm; NP1:ϕ_S317°,δ79°, λ1°. NP2:ϕ_S227°,δ89°,λ169°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s58,c135; Mantle waves: s58,c135; Half duration: 4s0. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.14±.03; $M_{\theta\theta}$5.72±.03; $M_{\phi\phi}$−5.58±.03; $M_{r\theta}$0.31±.11; $M_{r\phi}$0.34±.11; $M_{\theta\phi}$−0.86±.03. Principal Axes: T 5.80,Plg3°,Azm4°; N −0.13,Plg85°,Azm239°; P −5.67,Plg4°,Azm94°. Best double couple: $M_0$5.7×10^{18}Nm, NP1:ϕ_S139°,δ85°,λ−1°. NP2:ϕ_S229°,δ89°,λ−175°.							
ISC	**VIII**	**25 17 42 14.7**±.82	**27.7S**±.17	**74.4E**±.15	**10**	**4.4b**	**14**	**52-178**
NEIC	VIII	25 17 42 14.9	27.67S	74.42E	10	4.3b		**¶97viii3718**
EIDC	VIII	25 17 42 18.0	27.7S	74.6E	15	4.2b		
NEIC	Less reliable solution.							
ISC	**IX**	**11 14 42 56.6**±.95	**25.4S**±.19	**70.1E**±.22	**10**	**4.0b,3.8s**	**8**	**52-92**
NEIC	IX	11 14 42 56.5	25.39S	70.15E	10			**¶97ix1690**
EIDC	IX	11 14 42 57.6	25.4S	70.3E	0	3.7b,3.8s		
NEIC	Single network solution.							
ISC	**IX**	**13 06 23 20**±1.1	**16.0S**±.28	**67.4E**±.21	**10**	**3.9b**	**8**	**41-153**
EIDC	IX	13 06 23 19.8	16.0S	67.3E	0	3.8b		**¶97ix1936**
NEIC	IX	13 06 23 20.3	16.04S	67.43E	10			
NEIC	Poor solution.							
ISC	**IX**	**15 12 50 26**±1.3	**27.5S**±.17	**73.4E**±.33	**10**	**4.0b**	**6**	**41-82**
EIDC	IX	15 12 50 26.7	27.5S	73.4E	0	3.9b		**¶97ix2245**
ISC	**IX**	**15 13 31 58**±1.1	**27.6S**±.25	**73.4E**±.21	**10**	**3.9b**	**5**	**42-63**
NEIC	IX	15 13 31 57.9	27.63S	73.46E	10	4.3b		**¶97ix2249**
EIDC	IX	15 13 31 58.2	27.6S	73.3E	0	3.8b		
NEIC	Poor solution.							
ISC	**IX**	**18 01 21 28.0**±.73	**41.9S**±.14	**80.0E**±.15	**10**	**4.6b,4.4s**	**20**	**27-173**
BJI	IX	18 01 21 27.5	41.90S	79.90E	10	4.6b,5.5s		**¶97ix2593**
NEIC	IX	18 01 21 27.5	41.94S	79.94E	10	4.6b		
EIDC	IX	18 01 21 31.0	41.8S	79.9E	19	4.3s,4.3b		
NEIC	Less reliable solution.							
ISC	**IX**	**24 13 40 14**±1.7	**15.2S**±.33	**66.8E**±.30	**10**	**4.0b,3.9s**	**6**	**46-138**
NEIC	IX	24 13 40 14.1	15.26S	66.75E	10			**¶97ix3585**
EIDC	IX	24 13 40 14.3	15.4S	66.7E	0	4.0s,3.8b		
NEIC	Poor solution.							
ISC	**IX**	**25 14 20 48.9**±.17	**13.75S**±.037	**66.26E**±.028	**10**	**5.3b,5.6s**	**373**	**19-162**
EIDC	IX	25 14 20 48.8	13.8S	66.3E	0	5.0b,5.6s		**¶97ix3750**
NEIC	IX	25 14 20 48.9	13.76S	66.25E	10	5.3b,5.7s		
BJI	IX	25 14 20 49.3	13.28S	66.23E	5	5.5b,5.6s		
MOS	IX	25 14 20 49.4	13.7S	66.3E	10	5.9b,5.3s		
HRVD	IX	25 14 20 54.5±.1	13.54S±.01	66.11E±.01	15			
NEIC	Mw6.0(GS), Mw6.0(HRV).							
NEIC	Moment tensor solution: s27, scale 10^{18}Nm; M_{rr}0.07; $M_{\theta\theta}$−1.18; $M_{\phi\phi}$1.10; $M_{r\theta}$−0.18; $M_{r\phi}$0.09; $M_{\theta\phi}$0.17. Depth 18km; Principal axes: T 1.12,Plg4°,Azm274°; N 0.10,Plg81°, Azm157°; P −1.22,Plg8°,Azm4°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S49°,δ81°,λ−3°. NP2:ϕ_S139°,δ87°,λ−171°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c113; Mantle waves: s46,c85; Half duration: 2s4. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.11±.01; $M_{\theta\theta}$−0.92±.01; $M_{\phi\phi}$1.03±.01; $M_{r\theta}$−0.25±.03; $M_{r\phi}$0.02±.03; $M_{\theta\phi}$0.35±.01. Principal Axes: T 1.09,Plg1°,Azm100°; N −0.04,Plg75°,Azm195°; P −1.05,Plg15°,Azm10°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S146°,δ79°,λ−170°. NP2:ϕ_S54°,δ80°,λ−12°.							
ISC	**X**	**05 04 24 16**±1.6	**35.7S**±.40	**78.3E**±.27	**10**	**3.9b**	**5**	**49-69**
EIDC	X	05 04 24 16.3	35.8S	78.3E	0	4.0b,3.9s		**¶97x0796**
ISC	**X**	**05 04 30 38**±1.6	**36.5S**±.35	**78.0E**±.28	**10**	**3.8b**	**6**	**49-69**
EIDC	X	05 04 30 40.0	36.9S	77.9E	15	3.7b		**¶97x0797**
ISC	**X**	**05 04 44 05**±2.1	**35S**±1.4	**78.3E**±.47	**10**	**3.6b**	**4**	**49-69**
EIDC	X	05 04 44 08.2	35.5S	78.4E	17	3.5b,3.7s		**¶97x0799**
ISC	Poorly determined							
ISC	**X**	**05 05 05 40**±1.7	**36.4S**±.39	**78.2E**±.29	**10**	**4.1b**	**5**	**49-69**
EIDC	X	05 05 05 41.6	35.0S	78.5E	0	3.8s,4.0b		**¶97x0801**
ISC	**X**	**05 14 00 33.7**±.39	**35.50S**±.073	**78.40E**±.094	**10**	**4.9b,4.5s**	**43**	**32-150**
BJI	X	05 14 00 31.8	35.63S	78.27E	11	5.1b,5.4s		**¶97x0872**
NEIC	X	05 14 00 33.4	35.51S	78.39E	10	4.7b		
EIDC	X	05 14 00 38.4	35.4S	78.4E	28	4.4b,4.4s		
ISC	**X**	**06 12 51 06.0**±.45	**23.7S**±.11	**69.58E**±.074	**10**	**4.7b**	**41**	**21-164**
EIDC	X	06 12 51 09.2	23.9S	70.0E	0	4.6b		**¶97x1051**
BJI	X	06 12 51 09.9	23.08S	70.29E	5	4.6b		
NEIC	X	06 12 51 10.6	23.55S	69.89E	33	4.9b		
NEIC	Less reliable solution.							
ISC	**X**	**13 02 19 14.7**±.61	**11.9S**±.12	**66.0E**±.12	**10**	**4.2b,3.9s**	**20**	**28-152**
BJI	X	13 02 19 14.8	11.90S	66.00E	10	4.8b		**¶97x2144**
NEIC	X	13 02 19 14.8	11.90S	65.98E	10	4.0b		
EIDC	X	13 02 19 15.1	11.9S	65.9E	0	4.0b,4.0s		
NEIC	Less reliable solution.							
ISC	**X**	**14 06 53 16.9**±.42	**35.47S**±.083	**78.32E**±.091	**10**	**4.8b**	**36**	**32-150**
NEIC	X	14 06 53 16.9	35.49S	78.32E	10	4.8b		**¶97x2350**
EIDC	X	14 06 53 17.1	35.5S	78.4E	0	4.7b		
BJI	X	14 06 53 20.7	34.87S	78.53E	19	5.1b		
ISC	**X**	**14 08 03 19.8**±.57	**35.5S**±.12	**78.4E**±.11	**10**	**4.5b,3.8s**	**16**	**33-170**
NEIC	X	14 08 03 19.8	35.47S	78.43E	10	4.1b		**¶97x2360**
EIDC	X	14 08 03 20.3	35.5S	78.4E	0	4.3b,3.9s		
NEIC	Less reliable solution.							
ISC	**X**	**14 11 29 47**±2.0	**35.6S**±.49	**78.7E**±.30	**10**	**3.6b**	**4**	**49-70**
EIDC	X	14 11 29 47.4	35.7S	78.7E	0	3.5b		**¶97x2390**
ISC	Poorly determined							
ISC	**X**	**18 20 20 20.7**±.46	**37.07S**±.089	**78.4E**±.11	**10**	**4.5b,5.1s**	**31**	**32-144**
BJI	X	18 20 20 18.3	37.40S	78.49E	14	4.9b,5.0s		**¶97x3228**
NEIC	X	18 20 20 20.5	37.14S	78.34E	10	4.7b		
EIDC	X	18 20 20 21.5	37.0S	78.4E	0	4.2b		
NEIC	Less reliable solution.							
ISC	**X**	**30 20 18 20.7**±.33	**8.69S**±.068	**67.76E**±.062	**10**	**4.6b,4.5s**	**48**	**22-158**
NEIC	X	30 20 18 20.6	8.76S	67.71E	10	4.7b		**¶97x5084**
BJI	X	30 20 18 20.7	8.85S	67.46E	28	4.8b,4.8s		
EIDC	X	30 20 18 20.9	8.7S	67.7E	0	4.5b,4.3s		
ISC	**XI**	**16 20 09 47.5**±.33	**24.98S**±.074	**70.00E**±.067	**10**	**4.9b,4.4s**	**78**	**22-173**
BJI	XI	16 20 09 46.6	25.03S	69.98E	10	5.0b		**¶97xi2689**
NEIC	XI	16 20 09 47.3	24.99S	70.00E	10	5.1b,4.4s		
EIDC	XI	16 20 09 47.4	25.0S	70.0E	0	4.5b,4.3s		
ISC	**XI**	**19 02 44 06.9**±.72	**24.9S**±.14	**70.0E**±.16	**10**	**4.4b**,3.9s	**14**	**22-152**
NEIC	XI	19 02 44 06.8	24.89S	70.04E	10	5.0b		**¶97xi3116**
BJI	XI	19 02 44 07.1	24.89S	69.62E	30	4.7b		
EIDC	XI	19 02 44 09.4	24.8S	70.0E	18	4.0b,3.9s		
NEIC	Less reliable solution.							
ISC	**XI**	**20 16 41 53.8**±.52	**24.14S**±.097	**69.8E**±.11	**10**	**4.5b,4.4s**	**39**	**42-172**
BJI	XI	20 16 41 52.3	24.32S	69.54E	11	4.8b,5.0s		**¶97xi3496**
NEIC	XI	20 16 41 53.9	24.13S	69.86E	10	4.7b,4.4s		
EIDC	XI	20 16 41 57.4	24.2S	69.7E	23	4.2b,4.3s		
NEIC	Less reliable solution.							
ISC	**XI**	**20 18 33 29.0**±.99	**10.5S**±.21	**66.4E**±.17	**10**	**4.2b**	**13**	**43-148**
NEIC	XI	20 18 33 28.9	10.52S	66.45E	10	4.5b		**¶97xi3514**
EIDC	XI	20 18 33 29.1	10.5S	66.5E	0	4.0b		
NEIC	Poor solution.							
ISC	**XI**	**20 21 44 53**±3.4	**24.4S**±.40	**69.6E**±.67	**10**	**4.0b**	**6**	**51-91**
EIDC	XI	20 21 44 52.7	24.5S	69.4E	0	3.9b		**¶97xi3537**
ISC	**XI**	**26 22 26 00**±1.6	**35.4S**±.39	**78.6E**±.27	**10**	**3.7b,**3.8s	**5**	**49-69**
EIDC	XI	26 22 26 00.1	35.5S	78.6E	0	3.8s,3.6b		**¶97xi4752**
EIDC	**XII**	**07 12 29 40.5**±1.43	**10.3S**	**66.4E**	**0**	**3.7b,**3.3s		**43-147**
EIDC	Error ellipse is semi−major=48.0km semi−minor=33.9km azimuth=52							**¶97xii1696**
EIDC	**XII**	**12 11 46 25.6**±4.08	**27.0S**	**72.1E**	**0**	3.7b		**55-61**
								¶97xii2742
EIDC	Error ellipse is semi−major=654.9km semi−minor=25.9km azimuth=16LO CONF							
ISC	**XII**	**13 17 41 03.5**±.35	**22.94S**±.075	**69.21E**±.057	**10**	**4.6b,4.3s**	**55**	**20-140**
BJI	XII	13 17 41 02.8	22.96S	68.74E	20	4.8b,4.8s		**¶97xii2985**
NEIC	XII	13 17 41 03.5	23.08S	69.21E	10	4.8b,4.3s		
EIDC	XII	13 17 41 03.6±.66	23.0S	69.2E	0	4.3s,4.3b		
EIDC	Error ellipse is semi−major=21.6km semi−minor=18.9km azimuth=138							
ISC	**XII**	**15 10 26 59.4**±.36	**20.11S**±.065	**67.76E**±.058	**10**	**5.0b,5.5s**	**94**	**19-168**
BJI	XII	15 10 26 58.2	19.91S	67.76E	5	5.2b,5.6s		**¶97xii3266**
NEIC	XII	15 10 26 58.7	20.15S	67.62E	10	5.2b		
MOS	XII	15 10 26 58.9	20.2S	67.7E	10	5.4b,5.5s		
EIDC	XII	15 10 26 59.1±.65	20.0S	67.7E	0	4.7b,5.2s		
EIDC	Error ellipse is semi−major=22.8km semi−minor=20.1km azimuth=130							
ISC	**XII**	**15 11 05 19.2**±.42	**20.47S**±.090	**68.02E**±.063	**10**	**4.4b,4.3s**	**41**	**19-148**
EIDC	XII	15 11 05 18.9±.61	20.7S	67.9E	0	4.1b,4.4s		**¶97xii3276**
BJI	XII	15 11 05 19.1	20.60S	67.90E	10	4.8b,5.1s		
NEIC	XII	15 11 05 19.1	20.63S	67.94E	10	4.5b		
EIDC	Error ellipse is semi−major=25.2km semi−minor=16.4km azimuth=5							
NEIC	Less reliable solution.							
ISC	**XII**	**16 09 25 18.3**±.31	**20.41S**±.061	**68.05E**±.050	**10**	**5.0b,4.9s**	**109**	**19-159**
BJI	XII	16 09 25 18.1	20.40S	68.00E	10	5.3b,5.2s		**¶97xii3424**
NEIC	XII	16 09 25 18.1	20.41S	68.04E	10	5.1b,4.9s		
EIDC	XII	16 09 25 20.6±.40	20.3S	68.0E	15±2.2	4.5b,4.9s		
HRVD	XII	16 09 25 24.0±.5	20.13S±.09	67.79E±.08	15			
NEIC	Mw5.4(HRV).							
EIDC	Error ellipse is semi−major=13.3km semi−minor=11.7km azimuth=35							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c34; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}0.03±.06; $M_{\theta\theta}$1.14±.05; $M_{\phi\phi}$−1.17±.08; $M_{r\theta}$0.05±.31; $M_{r\phi}$0.42±.28; $M_{\theta\phi}$−0.47±.09. Principal Axes: T 1.23,Plg1°,Azm191°; N 0.16, Plg73°,Azm286°; P −1.39,Plg17°,Azm101°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S237°,δ77°,λ−169°. NP2:ϕ_S145°,δ79°,λ−13°.							
EIDC	**XII**	**17 11 00 52.5**±3.79	**34.7S**	**78.1E**	**0**	**3.9s,4.1b**		**48-151**
								¶97xii3595
EIDC	Error ellipse is semi−major=201.2km semi−minor=38.8km azimuth=25							
EIDC	**XII**	**28 00 45 11.8**±1.02	**33.5S**	**78.8E**	**0**	**3.9b,**3.9s		**49-150**
EIDC	Error ellipse is semi−major=44.0km semi−minor=25.1km azimuth=18							**¶97xii5368**
ISC	**XII**	**31 01 09 25**±1.4	**24.1S**±.25	**70.7E**±.22	**10**	**4.0b,**4.3s	**8**	**50-79**
EIDC	XII	31 01 09 28.9±1.30	24.0S	70.7E	20±5.2	4.2s,3.8b		**¶97xii5815**
EIDC	Error ellipse is semi−major=40.1km semi−minor=22.9km azimuth=32							
ISC	**XII**	**31 06 17 27**±1.6	**35.6S**±.39	**78.3E**±.27	**10**	**3.9b**	**6**	**49-152**
EIDC	XII	31 06 17 26.3±1.41	35.6S	78.2E	0	3.8b,3.7s		**¶97xii5843**
EIDC	Error ellipse is semi−major=59.2km semi−minor=25.0km azimuth=17							

(430) South of Africa.

ISC	**VII**	**16 23 54 24.8**±.73	**53.45S**±.099	**25.8E**±.42	**10**	**4.3b,3.8s**	**10**	**17-81**
EIDC	VII	16 23 54 25.8	53.2S	26.9E	0	4.1b,3.7s		¶97vii2521
ISC	**VII**	**28 22 04 01.9**±.64	**53.1S**±.10	**23.7E**±.27	**10**	**4.4b**	**18**	**21-156**
NEIC	VII	28 22 04 01.8	53.08S	23.71E	10	4.4b		¶97vii4335
EIDC	VII	28 22 04 01.8	53.2S	23.5E	0	4.2b		
NEIC	Less reliable solution.							
ISC	**IX**	**18 14 29 12**±1.3	**45.9S**±.21	**28.6E**±.41	**10**	**4.1b**	**4**	**17-86**
EIDC	IX	18 14 29 11.9	45.9S	28.8E	0	4.0b,4.1L		¶97ix2672
ISC	Poorly determined							
ISC	**X**	**30 06 31 13.7**±.40	**52.95S**±.053	**22.4E**±.17	**10**	**4.8b,4.6s**	**59**	**18-156**
EIDC	X	30 06 31 13.3	53.0S	22.4E	0	4.6b,4.7s		¶97x5004
NEIC	X	30 06 31 13.6	52.94S	22.38E	10	4.8b,4.7s		
HRVD	X	30 06 31 17.1±.4	53.13S±.05	23.11E±.10	15			
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c40; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.05±.04; $M_{\theta\theta}$0.72±.05; $M_{\phi\phi}$0.34±.05; $M_{r\theta}$0.95±.17; $M_{r\phi}$0.08±.20; $M_{\theta\phi}$−0.23±.05. Principal Axes: T 1.17,Plg22°,Azm13°; N 0.31, Plg10°,Azm279°; P −1.48,Plg66°,Azm167°. Best double couple: M_O1.3×10^{17}Nm, NP1: ϕ_S121°,δ24°,λ−66°. NP2:ϕ_S275°,δ68°,λ−100°.							
NEIC	**X**	**30 13 26 51.7**	**52.97S**	**22.40E**	**10**			**21-150**
EIDC	X	30 13 26 51.2	53.1S	22.2E	0	4.1b,3.5s		¶97x5045
NEIC	Poor solution.							
ISC	**X**	**31 05 51 18.8**±.62	**53.04S**±.097	**22.3E**±.27	**10**	**4.2b,4.2s**	**24**	**21-150**
NEIC	X	31 05 51 18.5	53.04S	22.23E	10			¶97x5139
EIDC	X	31 05 51 21.0	53.1S	22.4E	17	4.1b,4.2s		
NEIC	Less reliable solution.							
ISC	**XI**	**02 13 51 33.3**±.78	**52.8S**±.12	**21.8E**±.22	**10**	**4.2b,**3.6s	**16**	**22-150**
EIDC	XI	02 13 51 33.2	52.9S	21.9E	0	4.1b,3.6s		¶97xi0270
NEIC	XI	02 13 51 33.3	52.83S	21.77E	10	4.5b		
NEIC	Less reliable solution.							
ISC	**XI**	**10 21 05 22.6**±.72	**52.8S**±.11	**26.6E**±.36	**10**	**4.5b**	**19**	**21-149**
NEIC	XI	10 21 05 21.8	52.84S	26.37E	10	4.7b		¶97xi1673
EIDC	XI	10 21 05 22.5	53.2S	25.5E	14	4.3b		
NEIC	Less reliable solution.							
ISC	**XII**	**03 09 02 51.7**±.55	**53.01S**±.091	**22.3E**±.21	**10**	**4.1b**	**21**	**21-150**
NEIC	XII	03 09 02 51.2	53.01S	22.34E	10			¶97xii0393
EIDC	XII	03 09 02 51.3±.69	53.1S	22.4E	0	4.0b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=25.7km semi−minor=20.1km azimuth=78							
ISC	**XII**	**29 05 12 27.2**±.32	**52.18S**±.055	**28.0E**±.13	**49**±3.7*	**4.8b,5.2s**	**93**	**18-166**
NEIC	XII	29 05 12 21.5	52.15S	28.10E	10	5.1b,5.3s		¶97xii5549
HRVD	XII	29 05 12 26.6±.2	52.16S±.02	28.89E±.04	15			
EIDC	XII	29 05 12 27.6±.31	52.1S	28.1E	44±2.9	4.6b,4.9s		
BJI	XII	29 05 12 30.5	52.10S	28.10E	10			
NEIC	Mw5.7(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c80; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.05±.05; $M_{\theta\theta}$2.81±.06; $M_{\phi\phi}$−2.76±.07; $M_{r\theta}$1.17±.20; $M_{r\phi}$0.54±.19; $M_{\theta\phi}$2.73±.07. Principal Axes: T 4.31,Plg16°,Azm338°; N −0.43, Plg74°,Azm161°; P −3.87,Plg1°,Azm68°. Best double couple: M_O4.1×10^{17}Nm, NP1:ϕ_S114°, δ78°,λ11°. NP2:ϕ_S22°,δ79°,λ168°.							
EIDC	Error ellipse is semi−major=19.2km semi−minor=10.3km azimuth=56							

(431) Prince Edward Islands region.

ISC	**VII**	**10 07 10 33.3**±.49	**47.64S**±.082	**32.1E**±.21	**10**	**4.4b,4.1s**	**27**	**17-153**
NEIC	VII	10 07 10 32.9	47.66S	32.10E	10	4.4b		¶97vii1466
EIDC	VII	10 07 10 33.2	47.8S	32.1E	0	4.2b,4.0s		
ISC	**VIII**	**08 17 16 23.4**±.32	**44.63S**±.060	**35.4E**±.11	**10**	**4.9b,4.6s**	**65**	**17-160**
NEIC	VIII	08 17 16 23.2	44.60S	35.40E	10	5.0b,4.6s		¶97viii1138
BJI	VIII	08 17 16 23.4	44.65S	35.45E	16	5.4b,5.0s		
EIDC	VIII	08 17 16 27.6	44.5S	35.3E	28	4.4s,4.6b		
HRVD	VIII	08 17 16 29.0±.7	44.55S±.09	35.28E±.29	15			
NEIC	Mw5.1(HRV), Less reliable solution.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s12,c13; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.72±.60; $M_{\theta\theta}$4.64±.39; $M_{\phi\phi}$0.08±.56; $M_{r\theta}$0.17±1.92; $M_{r\phi}$0.70±1.76; $M_{\theta\phi}$0.57±.74. Principal Axes: T 4.72,Plg1°,Azm353°; N 0.11, Plg8°,Azm263°; P −4.83,Plg82°,Azm90°. Best double couple: M_O4.8×10^{16}Nm, NP1:ϕ_S91°, δ45°,λ−78°. NP2:ϕ_S255°,δ47°,λ−101°.							
ISC	**IX**	**03 14 18 59.5**±.67	**45.0S**±.13	**34.1E**±.29	**10**	**4.2b,**3.9s	**15**	**16-158**
NEIC	IX	03 14 18 59.3	44.91S	34.20E	10	4.2b		¶97ix0433
EIDC	IX	03 14 18 59.5	44.9S	34.2E	0	4.1b,4.5L		
NEIC	Less reliable solution.							
ISC	**X**	**14 04 26 24.8**±.69	**41.1S**±.22	**43.6E**±.18	**10**	**4.0b**	**12**	**20-156**
NEIC	X	14 04 26 24.4	41.17S	43.62E	10	4.0b		¶97x2339
EIDC	X	14 04 26 24.8	41.2S	43.7E	0	4.0b,3.6L		
NEIC	Less reliable solution.							
ISC	**XI**	**04 05 58 12**±1.5	**49.5S**±.38	**33.6E**±.89	**41**±3.0*	**3.8b**	**5**	**23-82**
EIDC	XI	04 05 58 13.0	49.7S	33.2E	42	3.6b		¶97xi0586
ISC	**XI**	**11 19 20 59.7**±.63	**46.1S**±.14	**34.9E**±.27	**10**	**4.2b,4.1s**	**15**	**14-155**
EIDC	XI	11 19 20 59.3	46.1S	34.9E	0	4.2b,4.1s		¶97xi1857
NEIC	XI	11 19 20 59.4	46.09S	34.88E	10	4.7b		
NEIC	Less reliable solution.							

(433) Kerguelen Islands region.

ISC	**X**	**29 16 04 39**±1.2	**54.6S**±.20	**76.0E**±.34	**10**	**3.7b**	**5**	**14-76**
EIDC	X	29 16 04 39.1	54.6S	75.9E	0	3.7b,3.8s		¶97x4927

(434) Amsterdam-Naturaliste Ridge.

EIDC	**X**	**05 12 22 22.9**	**33.4S**	**85.0E**	**23**	**3.6b,**3.7s		¶97x0864
EIDC	LO CONF Location							

(435) South-East Indian Ridge.

ISC	**VII**	**03 13 56 30.8**±.62	**42.0S**±.13	**88.3E**±.14	**10**	**4.3b,4.2s**	**19**	**27-146**
BJI	VII	03 13 56 26.7	42.66S	88.21E	5	4.9b		¶97vii0418
NEIC	VII	03 13 56 30.2	41.90S	88.28E	10	4.3b		
EIDC	VII	03 13 56 30.6	41.9S	88.3E	0	4.3s,4.1b		
NEIC	Less reliable solution.							
ISC	**VII**	**03 23 54 59.8**±.95	**42.0S**±.17	**89.0E**±.25	**10**	**4.1b**	**7**	**29-145**
NEIC	VII	03 23 54 59.6	42.04S	89.01E	10	4.8b		¶97vii0471
EIDC	VII	03 23 55 00.0	41.9S	89.0E	0	4.1b		
NEIC	Poor solution.							
ISC	**VII**	**13 10 53 50**±1.1	**41.7S**±.22	**85.4E**±.24	**10**	**4.0b,3.9s**	**7**	**44-166**
NEIC	VII	13 10 53 49.3	41.68S	85.37E	10	4.3b		¶97vii1960
EIDC	VII	13 10 53 50.5	41.4S	85.4E	0	3.9s,3.9b		
NEIC	Poor solution.							
ISC	**VII**	**19 22 22 58**±1.4	**47.5S**±.16	**101.4E**±.40	**10**	**3.9b,**4.0s	**7**	**34-116**
NEIC	VII	19 22 22 58.0	47.52S	101.44E	10	4.1b		¶97vii2963
EIDC	VII	19 22 23 00.6	47.2S	101.6E	0	3.9b,4.0s		
NEIC	Poor solution.							
EIDC	**VII**	**20 05 14 54.7**	**50.1S**	**100.6E**	**0**	**3.9b**		**37-152**
								¶97vii3021
ISC	**VII**	**20 17 11 55.9**±.47	**41.55S**±.087	**85.2E**±.11	**10**	**4.8b,4.7s**	**43**	**37-173**
NEIC	VII	20 17 11 56.0	41.60S	85.25E	10	4.7b		¶97vii3124
EIDC	VII	20 17 11 56.1	41.6S	85.3E	0	4.6b,4.7s		
BJI	VII	20 17 11 56.8	41.52S	85.82E	18	5.1b,5.3s		
NEIC	Less reliable solution.							
ISC	**VII**	**20 17 36 49.0**±.81	**47.5S**±.12	**101.6E**±.22	**10**	**4.3b,4.5s**	**11**	**30-89**
EIDC	VII	20 17 36 48.3	47.6S	101.4E	0	4.2b,4.4s		¶97vii3127
NEIC	VII	20 17 36 48.5	47.50S	101.40E	10	4.4b,4.5s		
NEIC	Less reliable solution.							
ISC	**IX**	**30 04 55 47**±1.9	**48.7S**±.30	**106.7E**±.65	**10**	**3.8b**	**4**	**29-36**
EIDC	IX	30 04 55 47.0	48.7S	106.7E	0	3.8b,3.5s		¶97ix5130
ISC	Poorly determined							
ISC	**X**	**29 11 51 52**±1.0	**43.6S**±.22	**92.4E**±.28	**10**	**3.6b**	**5**	**29-82**
NEIC	X	29 11 51 52.4	43.56S	92.46E	10			¶97x4902
EIDC	X	29 11 51 52.7	43.6S	92.4E	0	3.6b		
NEIC	Poor solution.							
ISC	**X**	**29 23 47 41**±1.5	**43.4S**±.27	**92.1E**±.42	**10**	**3.9b,**3.8s	**4**	**29-62**
EIDC	X	29 23 47 41.4	43.4S	92.2E	0	3.9s,4.0b		¶97x4964
ISC	Poorly determined							
ISC	**XI**	**06 19 28 41**±1.1	**48.1S**±.28	**106.9E**±.45	**10**	**4.0b,**3.7s	**9**	**30-153**
NEIC	XI	06 19 28 41.6	48.00S	106.83E	10	4.0b		¶97xi1016
EIDC	XI	06 19 28 42.0	48.0S	106.8E	0	4.0b,3.8s		
NEIC	Poor solution.							
ISC	**XI**	**06 23 56 23.8**±.56	**48.7S**±.11	**107.1E**±.20	**10**	**4.4b,4.9s**	**48**	**21-154**
BJI	XI	06 23 56 18.5	49.54S	106.55E	10	5.1b,5.1s		¶97xi1050
NEIC	XI	06 23 56 23.0	48.64S	106.74E	10	4.3b		
EIDC	XI	06 23 56 28.0	48.5S	107.1E	22	4.7s,4.1b		
NEIC	Less reliable solution.							
ISC	**XI**	**19 13 03 59**±1.3	**50.4S**±.35	**113.2E**±.67	**10**	**3.9b**	**4**	**31-97**
EIDC	XI	19 13 03 59.0	50.5S	113.2E	0	3.9b		¶97xi3224
ISC	Poorly determined							
ISC	**XII**	**19 01 59 47.6**±.97	**42.1S**±.17	**85.4E**±.25	**10**	**4.0b**	**6**	**28-77**
NEIC	XII	19 01 59 47.5	42.07S	85.40E	10			¶97xii3873
EIDC	XII	19 01 59 51.7±1.68	42.1S	85.4E	24±10.1	3.8b		
NEIC	Single network solution.							
EIDC	Error ellipse is semi−major=28.6km semi−minor=17.9km azimuth=113							

(436) Kerguelen-Gaussberg Ridge.

ISC	**VII**	**22 18 49 56.5**±.57	**60.2S**±.13	**82.2E**±.19	**10**	**4.6b**	**33**	**30-172**
NEIC	VII	22 18 49 56.5	60.25S	82.17E	10	4.6b		¶97vii3414
EIDC	VII	22 18 50 00.5	60.3S	82.1E	24	4.4b		

(437) South of Australia.

EIDC	**VII**	**03 18 26 54.5**	**49.2S**	**121.5E**	**0**	**3.8b**		**23-70**
								¶97vii0437
EIDC	**VII**	**14 19 12 21.0**	**41.8S**	**122.8E**	**0**	**3.4b,**3.3L		**18-39**
								¶97vii2193
EIDC	**VII**	**17 08 11 37.1**	**49.7S**	**125.5E**	**0**	**3.8b,**3.6s		**21-145**
								¶97vii2570
ISC	**VII**	**22 22 28 19.6**±.50	**50.15S**±.068	**131.5E**±.20	**10**	**4.7b,**5.0s	**41**	**16-168**
EIDC	VII	22 22 28 18.9	50.2S	131.5E	0	4.5b,4.0L		¶97vii3440
BJI	VII	22 22 28 19.2	50.10S	131.40E	10	5.2b		
NEIC	VII	22 22 28 19.2	50.15S	131.43E	10	4.5b		
NEIC	Less reliable solution.							
ISC	**VII**	**23 23 33 28.5**±.44	**49.56S**±.078	**117.3E**±.11	**10**	**5.0b,4.8s**	**75**	**17-159**
NEIC	VII	23 23 33 28.0	49.55S	117.20E	10	4.9b,4.8s		¶97vii3589
BJI	VII	23 23 33 28.1	49.81S	117.54E	24	5.2b,5.2s		
EIDC	VII	23 23 33 31.1	49.5S	117.4E	20	4.7b,4.8s		
HRVD	VII	23 23 33 36.2±.4	49.14S±.06	117.11E±.08	15			
NEIC	Mw5.3(HRV), Less reliable solution.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c43; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−8.81±.30; $M_{\theta\theta}$4.25±.35; $M_{\phi\phi}$4.56±.40; $M_{r\theta}$−0.24±1.32; $M_{r\phi}$−2.62±1.58; $M_{\theta\phi}$−4.91±.35. Principal Axes: T 9.48,Plg5°,Azm47°; N −0.07,Plg13°,Azm138°; P −9.42,Plg76°,Azm294°. Best double couple: M_O9.4×10^{16}Nm, NP1:ϕ_S123°,δ41°,λ−109°. NP2:ϕ_S328°,δ52°,λ−74°.							
ISC	**VII**	**27 01 46 44.3**±.42	**50.11S**±.055	**131.4E**±.11	**10**	**4.8b,4.8s**	**90**	**13-152**
NEIC	VII	27 01 46 43.7	50.14S	131.36E	10	4.8b,4.6s		¶97vii4042
EIDC	VII	27 01 46 43.7	50.2S	131.6E	0	4.7b,4.7s		
BJI	VII	27 01 46 43.9	50.20S	132.03E	21	5.1b,5.2s		
ISC	**VIII**	**12 14 22 12**±1.3	**50.7S**±.15	**115.9E**±.61	**10**	**3.9b**	**13**	**30-150**
NEIC	VIII	12 14 22 12.7	50.68S	116.06E	10			¶97viii1764
EIDC	VIII	12 14 22 13.2	50.8S	116.2E	0	3.9b		
NEIC	Poor solution.							
ISC	**VIII**	**17 15 47 13.3**±.94	**49.71S**±.097	**125.4E**±.43	**10**	**4.2b,3.7s**	**12**	**19-146**
NEIC	VIII	17 15 47 13.4	49.69S	125.12E	10	4.3b		¶97viii2557
EIDC	VIII	17 15 47 16.7	49.7S	125.7E	21	4.2b,3.7s		
NEIC	Poor solution.							
EIDC	**VIII**	**25 01 40 03.8**	**48.8S**	**125.0E**	**0**	**3.9b,**3.3s		**21-145**
								¶97viii3619
ISC	**IX**	**08 03 59 52.7**±.41	**50.13S**±.058	**131.3E**±.11	**10**	**5.0b,4.9s**	**115**	**16-152**
BJI	IX	08 03 59 52.3	50.10S	131.20E	15	5.1b,5.2s		¶97ix1169
NEIC	IX	08 03 59 52.3	50.14S	131.19E	10	4.9b,5.0s		
EIDC	IX	08 03 59 52.3	50.2S	131.3E	0	4.9b,4.5L		
HRVD	IX	08 03 59 56.4±.4	50.13S±.05	131.52E±.08	15			
NEIC	Mw5.4(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s30,c42; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.27±.04; $M_{\theta\theta}$1.02±.04; $M_{\phi\phi}$−0.75±.04; $M_{r\theta}$0.16±.16; $M_{r\phi}$−0.21±.16; $M_{\theta\phi}$−0.76±.05. Principal Axes: T 1.33,Plg8°,Azm21°; N −0.27, Plg77°,Azm146°; P −1.05,Plg11°,Azm289°. Best double couple: M_O1.2×10^{17}Nm, NP1: ϕ_S65°,δ77°,λ−178°. NP2:ϕ_S335°,δ88°,λ−13°.							
EIDC	**IX**	**08 20 47 41.9**	**50.0S**	**131.4E**	**0**	3.7b,3.1L		¶97ix1278
EIDC	LO CONF Location							
ISC	**IX**	**12 10 22 27.5**±.61	**48.95S**±.077	**121.4E**±.19	**10**	**4.3b**	**26**	**16-149**
NEIC	IX	12 10 22 27.5	48.95S	121.46E	10	4.4b		¶97ix1803
EIDC	IX	12 10 22 30.5	49.0S	121.5E	20	4.2b,4.1L		
NEIC	Less reliable solution.							
ISC	**IX**	**13 19 53 10**±2.0	**48.8S**±.47	**114.5E**±.46	**10**	**3.9b,**3.1s	**6**	**27-149**
EIDC	IX	13 19 53 09.9	49.0S	114.6E	0	3.8b,3.1s		¶97ix2031
ISC	Poorly determined							
ISC	**IX**	**18 15 45 29**±1.2	**50.0S**±.28	**116.1E**±.50	**10**	**3.6b**	**5**	**26-70**
EIDC	IX	18 15 45 29.5	50.0S	116.1E	0	3.6b		¶97ix2682

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
NEIC	**IX**	**24 00 40 33.8**	**48.88S**	**124.41E**	**10**			**26-147**	
EIDC	IX	24 00 40 36.5	48.6S	124.1E	0	3.6s,3.9b			¶97ix3502
NEIC	Poor solution.								
ISC	**IX**	**25 03 04 47.5**±.93	**50.05S**±.094	**138.6E**±.38	**10**	**4.2b**		**13 17-149**	
NEIC	IX	25 03 04 47.3	50.07S	138.60E	10	4.3b			¶97ix3668
EIDC	IX	25 03 04 47.9	50.1S	138.5E	0	4.1b,3.9L			
NEIC	Less reliable solution.								
EIDC	**IX**	**26 23 02 53.0**	**46.7S**	**126.1E**	**0**	3.6b,3.6L			¶97ix4174
ISC	**X**	**02 11 44 59.3**±.64	**48.97S**±.092	**121.7E**±.26	**10**	**4.3b**,4.2s		**26 18-149**	
NEIC	X	02 11 44 59.2	49.01S	121.85E	10	4.4b			¶97x0275
EIDC	X	02 11 44 59.3	48.9S	121.8E	0	4.2b,4.2s			
NEIC	Less reliable solution.								
ISC	**X**	**17 08 54 28.5**±.75	**49.6S**±.11	**117.5E**±.21	**10**	**4.4b,3.9s**		**25 17-149**	
BJI	X	17 08 54 28.2	49.60S	117.50E	10	4.7b			¶97x2950
NEIC	X	17 08 54 28.2	49.60S	117.51E	10	4.3b			
EIDC	X	17 08 54 34.2	49.4S	117.3E	38	4.1b,3.9s			
NEIC	Less reliable solution.								
ISC	**X**	**21 04 06 51**±4.6	**49.2S**±.53	**125.3E**±.38	**10**	**3.8b**,3.7s		**6 17-145**	
EIDC	X	21 04 06 55.6	48.6S	124.8E	0	3.8b,3.7s			¶97x3599
EIDC	**X**	**21 11 00 45.3**	**51.6S**	**125.6E**	**0**	**4.0b**,4.2L			¶97x3643
EIDC	**X**	**30 13 12 45.1**	**49.6S**	**123.8E**	**0**	**3.6b**			¶97x5043
EIDC	LO CONF Location								
EIDC	**XI**	**01 17 04 53.9**	**49.5S**	**123.1E**	**0**	**4.0s**,3.9b			¶97xi0107
EIDC	**XI**	**05 19 02 20.6**	**55.2S**	**121.1E**	**0**	**3.8b**			¶97xi0846
EIDC	LO CONF Location								
NEIC	**XI**	**17 04 11 02.5**	**50.68S**	**139.48E**	**33**	**4.1b**		**19-152**	
EIDC	XI	17 04 11 01.1	50.6S	138.0E	0	3.4s,4.2b			¶97xi2734
NEIC	Poor solution.								
EIDC	**XI**	**17 05 42 04.4**	**51.2S**	**138.7E**	**0**	3.8b,4.0L			¶97xi2746
EIDC	**XI**	**17 06 05 56.2**	**49.7S**	**137.3E**	**0**	3.7b,3.9L			¶97xi2748
ISC	**XI**	**17 11 20 40**±4.2	**50.9S**±.43	**139.4E**±.91	**10**	**4.3b**		**9 19-150**	
NEIC	XI	17 11 20 37.8	51.05S	138.38E	10	4.1b			¶97xi2786
EIDC	XI	17 11 20 38.6	51.0S	138.2E	0	4.4b,4.3L			
NEIC	Poor solution.								
EIDC	**XI**	**17 14 57 54.3**	**50.6S**	**138.3E**	**0**	3.6b,3.2L			¶97xi2817
EIDC	**XI**	**17 21 46 37.5**	**51.5S**	**139.5E**	**0**	**3.7s**,3.9b			¶97xi2865
ISC	**XI**	**18 05 05 38**±1.2	**51.2S**±.13	**139.1E**±.71	**10**	**4.2b**,3.8s		**10 19-150**	
NEIC	XI	18 05 05 37.5	51.23S	139.12E	10	4.2b			¶97xi2912
EIDC	XI	18 05 05 41.3	50.9S	138.4E	0	3.8s,4.0b			
NEIC	Poor solution.								
ISC	**XI**	**19 12 11 15**±4.5	**48.88S**±.074	**121.4E**±.14	**22**±32	**4.6b,5.1s**		**53 16-150**	
NEIC	XI	19 12 11 12.2	48.96S	121.53E	10	4.7b,4.7s			¶97xi3215
BJI	XI	19 12 11 12.6	49.10S	121.57E	25	5.3b			
EIDC	XI	19 12 11 12.9	48.8S	121.3E	0	4.6b,5.0s			
NEIC	**XI**	**19 18 06 04.3**	**50.92S**	**139.37E**	**10**	**4.0b**		**19-146**	
EIDC	XI	19 18 06 06.4	50.8S	137.9E	0	4.0b,3.6L			¶97xi3282
NEIC	Poor solution.								
ISC	**XI**	**19 23 22 35**±1.0	**48.6S**±.11	**126.4E**±.19	**10**	**4.5b**		**25 16-149**	
EIDC	XI	19 23 22 34.6	48.7S	126.4E	0	4.2b			¶97xi3334
BJI	XI	19 23 22 35.2	48.60S	126.20E	10	5.1b			
NEIC	XI	19 23 22 35.2	48.62S	126.26E	10	4.5b			
NEIC	Less reliable solution.								
ISC	**XI**	**20 05 46 43**±3.3	**51.1S**±.36	**139.4E**±.44	**10**	**4.3b**		**17 14-152**	
EIDC	XI	20 05 46 40.3	51.4S	140.1E	0	4.0b,3.5s			¶97xi3402
NEIC	XI	20 05 46 41.2	51.23S	139.36E	10	4.2b			
NEIC	Poor solution.								
ISC	**XI**	**21 20 09 27.9**±.81	**51.00S**±.088	**139.1E**±.26	**10**	**4.3b**		**27 14-152**	
NEIC	XI	21 20 09 29.8	51.01S	139.02E	26	4.2b			¶97xi3732
EIDC	XI	21 20 09 33.4	50.8S	137.8E	23	4.1b,4.1L			
NEIC	Less reliable solution.								
EIDC	**XI**	**22 02 52 23.1**	**50.3S**	**138.7E**	**0**	3.8b,3.8L			¶97xi3788
EIDC	**XI**	**22 10 14 48.2**	**50.6S**	**134.0E**	**0**	**3.8b**,3.6L			¶97xi3850
ISC	**XI**	**23 07 24 23.2**±.84	**51.21S**±.084	**139.5E**±.40	**10**	**4.4b**		**23 19-150**	
NEIC	XI	23 07 24 23.0	51.26S	139.34E	10	4.4b			¶97xi4063
EIDC	XI	23 07 24 26.4	50.9S	138.9E	0	4.2b,4.2L			
NEIC	Poor solution.								
EIDC	**XI**	**23 13 16 32.8**	**50.9S**	**139.5E**	**0**	3.7b,3.7L			¶97xi4126
ISC	**XI**	**23 17 21 34**±7.3	**50.9S**±.79	**138.5E**±.73	**10**	**4.2b**		**11 19-149**	
NEIC	XI	23 17 21 29.1	51.38S	139.10E	10	4.2b			¶97xi4162
EIDC	XI	23 17 21 30.8	51.3S	139.7E	0	3.9b,3.9L			
NEIC	Poor solution.								
EIDC	**XI**	**23 19 48 00.0**	**50.5S**	**140.6E**	**0**	**3.6b**,3.6L			¶97xi4184
ISC	**XI**	**24 13 32 29**±6.5	**50.8S**±.69	**138.4E**±.63	**10**	**4.1b**		**14 14-152**	
NEIC	XI	24 13 32 24.8	51.27S	138.65E	10	4.1b			¶97xi4326
EIDC	XI	24 13 32 25.0	51.3S	138.5E	0	4.0b,3.9L			
NEIC	Poor solution.								
EIDC	**XI**	**24 19 34 18.2**	**51.7S**	**139.2E**	**0**	3.7b,3.9s			¶97xi4371
EIDC	**XI**	**24 19 35 52.2**	**51.2S**	**138.9E**	**0**	**3.8b**,3.4L			¶97xi4374
EIDC	**XI**	**24 22 48 59.2**	**51.1S**	**138.5E**	**0**	3.9b,3.7L			¶97xi4400
ISC	**XI**	**25 11 05 54**±1.0	**51.1S**±.12	**138.9E**±.36	**10**	**4.2b**		**19 14-150**	
NEIC	XI	25 11 05 54.4	51.06S	138.68E	10	4.2b			¶97xi4491
EIDC	XI	25 11 05 58.7	50.7S	137.0E	0	4.0b,4.2L			
NEIC	Less reliable solution.								
EIDC	**XI**	**25 23 51 20.9**	**50.8S**	**137.7E**	**0**	3.7b,4.2L			¶97xi4598
EIDC	**XI**	**26 18 42 42.6**	**50.9S**	**138.2E**	**0**	3.9b,3.6L			¶97xi4732
EIDC	**XI**	**27 01 11 12.4**	**51.2S**	**138.9E**	**0**	3.8b,3.3s			¶97xi4773
ISC	**XI**	**29 17 26 46**±1.1	**49.6S**±.14	**116.1E**±.25	**10**	**4.6b**,4.6s		**23 17-150**	
BJI	XI	29 17 26 48.5	49.58S	115.88E	35	5.1b			¶97xi5296
EIDC	XI	29 17 26 49.1	49.6S	116.0E	23	4.3b,3.9L			
NEIC	XI	29 17 26 49.6	49.56S	116.27E	33	4.5b,4.6s			
NEIC	Less reliable solution.								
ISC	**XII**	**01 05 42 19**±3.2	**50.1S**±.31	**115.8E**±.47	**10**	**4.4b**,3.8s		**12 16-150**	
NEIC	XII	01 05 42 28.5	48.68S	115.88E	10				¶97xii0041
EIDC	XII	01 05 42 29.0±1.68	48.6S	115.8E	0	4.4b,3.7s			
NEIC	Poor solution.								
EIDC	Error ellipse is semi−major=45.1km semi−minor=39.2km azimuth=89								
ISC	**XII**	**01 06 18 54**±3.7	**50.6S**±.38	**115.9E**±.60	**10**	**3.8b**		**6 18-146**	
EIDC	XII	01 06 18 46.1±3.43	51.2S	114.6E	0	3.8b,4.6L			¶97xii0043
EIDC	Error ellipse is semi−major=94.8km semi−minor=43.8km azimuth=93								
EIDC	**XII**	**02 06 42 14.7**±4.44	**50.8S**	**137.7E**	**0**	3.5b,3.4L		**19-145**	¶97xii0196
EIDC	Error ellipse is semi−major=184.6km semi−minor=55.7km azimuth=105								
ISC	**XII**	**07 07 52 46.8**±.46	**48.76S**±.069	**120.8E**±.15	**10**	**4.3b**,3.5s		**29 14-149**	
BJI	XII	07 07 52 40.7	48.70S	120.70E	24	4.6b			¶97xii1654
NEIC	XII	07 07 52 48.7	48.75S	120.75E	24	4.3b			
EIDC	XII	07 07 52 50.2±.50	48.8S	120.8E	21±3.0	4.1b,3.5s			
EIDC	Error ellipse is semi−major=21.7km semi−minor=11.6km azimuth=120								
ISC	**XII**	**29 02 39 48.8**±.35	**49.53S**±.050	**126.01E**±.090	**10**	**4.8b,4.8s**		**93 16-153**	
BJI	XII	29 02 39 48.0	49.50S	125.80E	10	4.9b,5.2s			¶97xii5535
NEIC	XII	29 02 39 48.0	49.57S	125.87E	10	4.7b,4.5s			
EIDC	XII	29 02 39 48.3±.60	49.6S	126.0E	0	4.7b,4.7s			
EIDC	Error ellipse is semi−major=30.7km semi−minor=15.7km azimuth=110								
EIDC	**XII**	**31 08 48 54.3**±2.26	**49.5S**	**125.4E**	**0**	**3.7b**,2.9s		**21-145**	
EIDC	Error ellipse is semi−major=95.1km semi−minor=24.1km azimuth=97								¶97xii5865

SEISMIC REGION 34.
EASTERN NORTH AMERICA.

(439) Manitoba Province.

ISC	**X**	**08 12 05 41.2**±.78	**50.84N**±.082	**101.96W**±.095	**0**			**14 4-14**	
EIDC	X	08 12 05 43.5	50.9N	101.9W	0	3.6L			¶97x1412
PGC	X	08 12 05 45.6	50.6N	101.8W	1	3.1b			
PGC	Near Esterhazy, Saskatchewan. Induced earthquake at the IMC potash mine.Felt underground and on the surface.								

(440) Hudson Bay.

OTT	**XII**	**06 02 41 05.7**	**56.7N**	**87.4W**	**18**	**3.4N**			¶97xii1212
OTT	Southwestern Hudson Bay. 450km southeast of Fort Churchill, Manitoba.								

(441) Ontario.

ISC	**IX**	**30 13 12 17**±1.3	**48.4N**±.13	**79.5W**±.12	**0**			**17 2-11**	
OTT	IX	30 13 12 21.0	48.1N	79.6W	1	3.5N			¶97ix5234
OTT	Probable rockburst Kirkland Lake. Felt.								

(442) Hudson Strait region.

OTT	**VIII**	**02 10 00 00.2**	**59.6N**	**67.8W**	**18**	**3.0N**			¶97viii0195
OTT	Boothia Ungava seismic zone.114km east from Aupaluk, Quebec								

(443) Northern Québec Province.

ISC	**VII**	**14 23 41 55.6**±.38	**59.43N**±.038	**76.55W**±.095	**18**	**3.8b**		**54 4-81**	
EIDC	VII	14 23 41 54.1	59.4N	76.6W	0	3.8b,4.6L			¶97vii2220
OTT	VII	14 23 41 56.5	59.6N	76.6W	18	4.2N			
NEIC	VII	14 23 41 59.0	59.54N	76.31W	18	4.2b			
OTT	Boothia Ungava seismic zone.74km southeast from Povungnituk, Quebec								
NEIC	mbLg4.5(OTT), After OTT.								

(444) Davis Strait.

OTT	**VII**	**06 21 14 38.6**	**60.6N**	**60.1W**	**18**	**3.1L**			¶97vii0937
OTT	Labrador Sea seismic zone. 271km east from Resolution Island, Northwest Territories								

(446) East of Labrador.

OTT	**XII**	**24 02 30 36.8**	**57.0N**	**59.2W**	**18**	**3.5L**			¶97xii4689
OTT	Labrador sea. 440km east from Kangiqsualujjuag, Quebec								

(447) Southern Québec Province.

ISC	**VII**	**21 22 49 51.9**±.70	**46.09N**±.047	**75.40W**±.064	**26**±8.8			**26 0-7**	
OTT	VII	21 22 49 51.3	46.0N	75.4W	20	3.0N			¶97vii3294
OTT	Western Quebec seismic zone, 52km northeast from Buckingham, Quebec. Felt in Notre−Dame−Du−Laus, Quebec								
ISC	**VIII**	**20 09 12 03.0**±.47	**47.53N**±.049	**70.34W**±.060	**14**±4.3			**29 0-9**	
NEIC	VIII	20 09 12 04.0	47.53N	70.29W	18				¶97viii2935
OTT	VIII	20 09 12 04.4	47.5N	70.3W	7	3.7N			
NEIC	mbLg3.7(OTT). Felt, After OTT.								
OTT	Charlevoix seismic zone, Quebec, 17km southwest from La Malbaie, Quebec. Felt in Baie−St−Paul, La Malbaie, St−Urbain, St−Hilarion and Clermont. Also felt at St−Irenee, Pointe−au−Pic, Les Eboulements. People were awakened by the event. One felt report from the south shore (Riviere−Ouelle). Largest Charlevoix event since 25 September 1994 (Mag. 4.3).								
ISC	**X**	**07 19 54 40**±1.2	**47.0N**±.13	**76.9W**±.10	**18**			**12 1-6**	
OTT	X	07 19 54 40.8	46.9N	76.9W	18	3.4N			¶97x1291
OTT	Western Quebec seismic zone. Not felt. 93km northwest from Maniwaki, Quebec								
ISC	**XI**	**06 02 34 32.7**±.91	**46.73N**±.028	**71.35W**±.032	**27**±7.5	**4.7b,4.0s**	**181**	**1-151**	
EIDC	XI	06 02 34 30.4	46.8N	71.4W	0	4.5b,5.0L			¶97xi0908
NEIC	XI	06 02 34 33.0	46.80N	71.41W	23	4.8b,4.0s			
OTT	XI	06 02 34 33.5	46.8N	71.4W	23	5.1N			
NEIC	mbLg5.1(OTT), mbLg4.8(GS). Casualties, After OTT.								
NEIC	One person died of a heart attack. Felt in many parts of southern Quebec. Felt as far west as Ottawa, Ontario and as far east as Edmundston, New Brunswick. Felt I−V MM at Adamstown; IV MM at Clayton Lake, Farmington, Saint Francis, Saint John and Shirley Mills, Maine. Felt V MM at East Haven and Newport; IV MM at Barton, Beebe Plain, Sheldon Springs and West Glover, Vermont. Also felt IV MM at Groveton, New Hampshire. Felt in western Maine, northern New Hampshire, northern Vermont and parts of northeastern New York.								
OTT	Felt in Quebec City, Charlevoix, and Saguenay regions. Also reported felt in Ottawa Valley, Montreal, Maine, and Northern New York. Minor damage reported in a school of the Quebec City region.15km west from Quebec								
NEIC	**XI**	**06 02 55 39.0**	**46.78N**	**71.39W**	**18**			**3-3**	
NEIC	mbLg2.8(OTT), After OTT.								¶97xi0911
NEIC	**XI**	**06 03 05 57.0**	**46.76N**	**71.37W**	**18**			**3-3**	
NEIC	mbLg2.9(OTT), After OTT.								¶97xi0912
NEIC	**XI**	**08 14 49 26.0**	**46.78N**	**71.37W**	**23**			**3-3**	
NEIC	mbLg2.9(OTT), After OTT.								¶97xi1295

(448) Gaspé Peninsula.

ISC	**X**	**28 11 44 17.7**±.47	**47.64N**±.039	**70.00W**±.054	**17**±4.4	**4.3b**		**66 0-151**	
EIDC	X	28 11 44 17.2	47.6N	70.0W	0	4.2b,4.3L			¶97x4756
NEIC	X	28 11 44 18.0	47.67N	69.91W	12	4.8b			
OTT	X	28 11 44 18.7	47.7N	69.9W	11	4.7N			
NEIC	mbLg4.7(OTT). Felt, After OTT.								
OTT	Charlevoix Seismic Zone, Quebec. Felt in Charlevoix, Riviere−du−Loup, and in the Quebec City, Saguenay and Lac St−Jean regions. 18km east from La Malbaie, Quebec								
ISC	**X**	**28 11 45 48**±6.3	**47.7N**±.14	**69.9W**±.17	**15**±58			**6 0-1**	
OTT	X	28 11 45 48.6	47.7N	69.9W	8	3.2N			¶97x4757
ISC	Poorly determined								
OTT	Felt Aftershock, Charlevoix Seismic Zone, Quebec								

(449) Eastern Québec Province.

ISC	**X**	**07 05 59 25**±1.3	**50.3N**±.10	**63.6W**±.17	**18**		**10**	**2-7**
OTT	X	07 05 59 28.4	50.3N	64.2W	18	3.3N		**¶97x1190**
OTT	Felt, Lower Quebec North Shore.							

(451) New Brunswick.

ISC	**IX**	**01 09 46 32.6**±.90	**47.27N**±.062	**66.0W**±.11	**0**		**17**	**2-8**
OTT	IX	01 09 46 32.8	47.2N	66.0W	1	3.1N		**¶97ix0089**
OTT	Rockburst, Heath Steele Mine, New Brunswick							

(456) Montana.

ISC	**VIII**	**07 21 59 23.9**±.86	**45.03N**±.047	**111.8W**±.10	**13**±8.1		**14**	**0-3**
NEIC	VIII	07 21 59 24.0	44.99N	111.81W	14			**¶97viii1007**
NEIC	M_L3.3(BUT), After BUT.							
ISC	**VIII**	**29 08 42 52.2**±.55	**48.54N**±.063	**115.87W**±.075	**10**		**22**	**1-5**
PGC	VIII	29 08 42 52.9	48.6N	115.9W	10	3.0L		**¶97viii4256**
NEIC	VIII	29 08 42 53.0	48.58N	115.88W	19			
PGC	Near Troy, Montana. Felt at Troy, Libby and Eurka, Montana.							
NEIC	M_L3.1(BUT). Felt, After BUT.							
ISC	**X**	**11 15 35 58.5**±.95	**45.03N**±.050	**112.8W**±.13	**10**		**12**	**0-3**
NEIC	X	11 15 35 58.3	45.02N	112.84W	10			**¶97x1907**
NEIC	M_L3.0(BUT), After BUT.							
ISC	**X**	**14 19 08 46.4**±.90	**45.06N**±.030	**112.80W**±.084	**4**±7.3		**30**	**0-6**
NEIC	X	14 19 08 46.7	45.02N	112.85W	9			**¶97x2474**
NEIC	M_L3.7(BUT), After BUT.							
ISC	**XI**	**06 21 00 14.9**±.92	**45.87N**±.043	**111.21W**±.075	**7**±7.9	2.9b	**37**	**0-27**
EIDC	XI	06 21 00 13.8	46.0N	110.9W	0	4.0L,3.1b		**¶97xi1031**
NEIC	XI	06 21 00 14.4	45.82N	111.08W	5			
NEIC	M_L4.0(GS), M_D3.7(BUT). Felt, After BUT.							
NEIC	Felt at Amsterdam, Belgrade, Bozeman, Gallatin Gateway, Logan, Manhattan and Three Forks.							
ISC	**XI**	**13 16 41 42.8**±.96	**45.84N**±.065	**111.2W**±.12	**6**		**19**	**1-5**
NEIC	XI	13 16 41 42.2	45.82N	111.09W	6			**¶97xi2170**
NEIC	M_L3.4(BUT), After BUT.							
ISC	**XII**	**30 00 08 37.5**±.48	**45.96N**±.036	**111.54W**±.055	**2**		**29**	**0-17**
EIDC	XII	30 00 08 37.0±2.05	46.5N	111.2W	0	3.3L		**¶97xii5661**
NEIC	XII	30 00 08 37.2	45.93N	111.48W	2			
EIDC	Error ellipse is semi−major=26.4km semi−minor=18.3km azimuth=34							
NEIC	M_L3.0(BUT). Felt, After BUT.							
NEIC	Felt at Logan and Trident.							

(457) Eastern Idaho.

ISC	**VII**	**14 20 20 09**±1.1	**42.3N**±.12	**113.4W**±.17	**0**		**5**	**2-20**
EIDC	VII	14 20 20 11.0	42.2N	113.6W	0	3.7L,3.4b		**¶97vii2196**
ISC	**VII**	**17 12 02 51.7**±.30	**42.43N**±.027	**111.19W**±.044	**5**	3.7b	**45**	**1-30**
NEIC	VII	17 12 02 51.5	42.43N	111.20W	5			**¶97vii2590**
EIDC	VII	17 12 02 52.1	42.5N	111.2W	0	3.3L,3.6b		
NEIC	M_L4.1(BUT), M_L4.0(GS)							
NEIC	Felt at Georgetown. Also felt at Afton and Auburn, Wyoming.							
ISC	**VIII**	**29 09 10 15**±1.8	**44.57N**±.077	**113.23W**±.098	**10**±11		**19**	**0-7**
NEIC	VIII	29 09 10 15.1	44.54N	113.22W	10			**¶97viii4262**
NEIC	M_L3.7(BUT), After BUT.							

(458) Hebgen Lake region.

ISC	**VIII**	**30 11 41 27.6**±.78	**44.88N**±.030	**111.54W**±.053	**5**±6.2		**47**	**0-8**
NEIC	VIII	30 11 41 27.9	44.84N	111.50W	4			**¶97viii4475**
NEIC	M_L4.1(BUT), M_L3.7(GS), After BUT.							
ISC	**IX**	**10 17 16 23**±1.2	**44.48N**±.050	**111.0W**±.10	**1**±13		**14**	**0-3**
NEIC	IX	10 17 16 23.4	44.48N	111.04W	5			**¶97ix1552**
NEIC	M_L3.0(BUT).							
ISC	**IX**	**16 17 07 52**±1.1	**44.44N**±.052	**111.1W**±.13	**1**±15		**10**	**0-2**
NEIC	IX	16 17 07 52.0	44.43N	111.09W	5			**¶97ix2411**
NEIC	M_L3.0(BUT).							

(459) Yellowstone National Park, Wyoming.

ISC	**IX**	**01 04 08 22.5**±.58	**44.83N**±.041	**110.99W**±.076	**5**		**24**	**0-7**
NEIC	IX	01 04 08 21.7	44.83N	110.91W	5			**¶97ix0037**
NEIC	M_L3.4(GS), M_L3.8(BUT).							
ISC	**XII**	**15 23 26 29.8**±.86	**44.74N**±.036	**110.66W**±.071	**0**±7.5		**27**	**0-18**
NEIC	XII	15 23 26 30.5	44.73N	110.67W	10			**¶97xii3355**
EIDC	XII	15 23 26 31.6±1.69	44.9N	110.2W	0	3.6L		
NEIC	M_L3.4(BUT).							
EIDC	Error ellipse is semi−major=28.1km semi−minor=14.9km azimuth=75							

(460) Wyoming.

EIDC	**VII**	**21 19 44 33.2**	**45.0N**	**106.6W**	**0**	**3.5L**		**3-16**
ISC	Possible mining explosion (after NEIC)							**¶97vii3283**
ISC	**VIII**	**18 18 11 50**±1.4	**44.0N**±.20	**104.8W**±.18	**0**		**5**	**4-19**
EIDC	VIII	18 18 11 52.1	44.1N	104.9W	0	4.0L		**¶97viii2703**
ISC	Possible mining explosion (after NEIC)							
ISC	**VIII**	**25 21 11 01**±1.2	**43.6N**±.13	**106.2W**±.21	**0**		**4**	**3-20**
EIDC	VIII	25 21 11 03.8	43.6N	106.4W	0	3.5L		**¶97viii3743**
ISC	Probable mining explosion after NEIC, Poorly determined							
EIDC	**IX**	**09 21 20 04.2**	**43.9N**	**105.6W**	**0**	**3.5L**		**¶97ix1440**
NEIC	Probable mining explosion							
ISC	**IX**	**13 04 49 14.4**±.87	**43.47N**±.034	**110.68W**±.059	**2**±7.9		**27**	**0-6**
NEIC	IX	13 04 49 14.4	43.46N	110.67W	5			**¶97ix1918**
NEIC	M_L2.8(BUT).							
ISC	**XII**	**06 18 49 25**±3.1	**43.1N**±.43	**104.6W**±.32	**0**	4.2b	**5**	**4-68**
EIDC	XII	06 18 49 25.9±3.36	42.9N	104.6W	0	3.7b,4.5L		**¶97xii1494**
ISC	Possible mineblast (after NEIC)							
EIDC	Error ellipse is semi−major=69.7km semi−minor=17.0km azimuth=164							
EIDC	**XII**	**23 21 09 17.0**±3.24	**43.4N**	**104.7W**	**0**	4.1L		**4-20**
								¶97xii4656
EIDC	Error ellipse is semi−major=46.6km semi−minor=27.0km azimuth=136							
NEIC	Possible mineblast							
EIDC	**XII**	**30 19 18 32.3**±2.86	**43.6N**	**105.0W**	**0**	**3.7L**		**3-20**
								¶97xii5778
EIDC	Error ellipse is semi−major=40.3km semi−minor=25.8km azimuth=129							
NEIC	Possible mineblast							

(463) Nebraska.

ISC	**VIII**	**09 17 46 04.2**±.48	**41.77N**±.053	**97.13W**±.060	**5**	3.2b	**23**	**4-36**
NEIC	VIII	09 17 46 03.9	41.80N	97.19W	5			**¶97viii1296**
EIDC	VIII	09 17 46 05.5	41.8N	97.3W	0	4.1L,3.2b		
OTT	VIII	09 17 46 08.7	41.7N	97.2W	5	3.6N		
NEIC	mbLg3.4(GS)							
NEIC	Felt I=IV MM in the Leigh-Clarkson-Howells area. Felt III MM at Dodge and II MM at West Point.							
OTT	Nebraska, USA.							

(464) Minnesota.

ISC	**XII**	**31 17 09 17**±1.4	**47.2N**±.13	**92.4W**±.21	**0**		**6**	**1-20**
EIDC	XII	31 17 09 19.3±2.56	47.2N	92.4W	0	3.3L		**¶97xii5932**
EIDC	Error ellipse is semi−major=51.2km semi−minor=21.5km azimuth=64							
NEIC	Probable mine blast							

(472) New York State.

ISC	**VII**	**10 13 57 50.1**±.87	**44.97N**±.055	**74.71W**±.071	**3**±8.1		**18**	**0-4**
OTT	VII	10 13 57 51.0	45.0N	74.8W	10	3.0N		**¶97vii1516**
NEIC	VII	10 13 57 51.0	45.04N	74.83W	18			
OTT	6km west from Cornwall, Ontario. Eastern Ontario, near the Canada−U.S. border. Reported felt in Cornwall, Massena, Kingston and Ottawa.							
NEIC	mbLg2.9(OTT)							
ISC	**VII**	**31 07 15 28.6**±.47	**43.73N**±.040	**75.40W**±.061	**5**		**32**	**1-12**
OTT	VII	31 07 15 24.2	43.4N	75.3W	10	3.4N		**¶97vii4694**
NEIC	VII	31 07 15 29.7	43.62N	75.37W	5			
OTT	Northern New York State, U.S.A. near Glenfield, 95km southeast from Kingston, Ontario, Eastern background seismic zone. Felt in Greig, Chase Lake, Lyons Falls, Moose River, Port Leydon							
NEIC	mbLg3.2(GS), Less reliable solution.							
ISC	**X**	**12 08 28 20.3**±.70	**44.92N**±.048	**74.50W**±.051	**2**±8.3		**24**	**0-4**
OTT	X	12 08 28 21.5	44.9N	74.5W	18	3.1N		**¶97x2013**
NEIC	X	12 08 28 22.3	44.91N	74.55W	14			
OTT	Adirondacks Mts, N.Y.20km southeast from Cornwall, Ontario. Felt in Cornwall and Malone, N.Y.							
NEIC	M_D2.9(PAL), After PAL.							
ISC	**X**	**13 23 06 39.2**±.48	**44.42N**±.039	**74.88W**±.052	**4**		**27**	**0-4**
NEIC	X	13 23 06 40.2	44.36N	74.97W	4			**¶97x2300**
OTT	X	13 23 06 40.3	44.4N	75.0W	4	3.0N		
NEIC	M_D3.0(PAL), After PAL.							
OTT	New York State, U.S.A.							

(473) Pennsylvania.

ISC	**XI**	**14 03 44 11**±1.4	**40.20N**±.050	**76.29W**±.069	**2**±12		**23**	**1-7**
OTT	XI	14 03 44 11.0	40.2N	76.3W	7	3.0N		**¶97xi2234**
NEIC	XI	14 03 44 11.0	40.15N	76.25W	5			
OTT	Pennsylvania							
NEIC	mbLg3.0(GS)							
NEIC	Felt in the Lititz-Lancaster area. Also felt at Coatesville.							

(478) Utah.

ISC	**VII**	**29 13 04 49**±2.2	**37.93N**±.093	**112.59W**±.060	**18**±29		**15**	**1-6**
NEIC	VII	29 13 04 47.2	37.97N	112.57W	1			**¶97vii4432**
NEIC	M_L3.5(SLC), After SLC.							
ISC	**VIII**	**13 14 24 01**±1.4	**38.01N**±.052	**112.61W**±.047	**1**±11		**26**	**1-6**
NEIC	VIII	13 14 24 01.4	38.01N	112.59W	5			**¶97viii1917**
NEIC	M_L3.7(GS).							
ISC	**IX**	**17 00 39 00.2**±.97	**40.55N**±.036	**112.20W**±.067	**3**±7.9		**24**	**0-7**
NEIC	IX	17 00 39 00.1	40.54N	112.18W	1			**¶97ix2450**
NEIC	M_L3.0(SLC), After SLC.							
ISC	**X**	**03 14 52 18.9**±.49	**41.42N**±.044	**112.30W**±.062	**5**		**20**	**1-5**
NEIC	X	03 14 52 18.6	41.42N	112.30W	5			**¶97x0479**
NEIC	M_L3.6(GS).							
ISC	**X**	**20 07 02 20.7**±.62	**37.81N**±.054	**111.92W**±.065	**10**		**19**	**1-5**
NEIC	X	20 07 02 20.7	37.83N	111.88W	10			**¶97x3458**
NEIC	M_L3.1(GS).							
ISC	**XI**	**05 00 51 49**±1.2	**41.84N**±.038	**112.30W**±.071	**5**±11		**21**	**0-5**
NEIC	XI	05 00 51 48.9	41.84N	112.30W	10			**¶97xi0713**
NEIC	M_L2.9(GS).							
ISC	**XI**	**30 09 54 59.1**±.57	**37.59N**±.049	**113.05W**±.064	**5**		**19**	**0-6**
NEIC	XI	30 09 54 58.8	37.60N	113.04W	5			**¶97xi5398**
NEIC	M_L3.4(GS)							
NEIC	Felt in the Cedar City area.							

(479) Colorado.

ISC	**VII**	**15 21 24 27**±2.5	**40.7N**±.22	**106.6W**±.71	**0**	3.3b	**4**	**3-33**
EIDC	VII	15 21 24 30.5	40.5N	107.1W	0	3.1L,3.2b		**¶97vii2354**
ISC	Poorly determined							

(480) Kansas.

ISC	**XII**	**11 11 34 57**±1.1	**37.1N**±.12	**98.4W**±.17	**5**		**8**	**2-6**
NEIC	XII	11 11 34 57.0	37.10N	98.48W	5			**¶97xii2553**
NEIC	mbLg2.7(GS), Less reliable solution.							

(485) Eastern Missouri.

ISC	**IX**	**20 05 55 47.8**±.94	**37.39N**±.096	**91.0W**±.11	**5**		**7**	**1-11**
NEIC	IX	20 05 55 50.4	37.18N	90.92W	5			**¶97ix2906**
NEIC	mbLg3.1(GS), Poor solution.							

(486) New Madrid, Missouri, region.

ISC	**IX**	**24 04 20 24.8**±.82	**36.54N**±.096	**89.87W**±.088	**5**		**7**	**2-9**
NEIC	IX	24 04 20 24.8	36.54N	89.82W	5			**¶97ix3521**
NEIC	mbLg3.2(GS), Less reliable solution.							
ISC	**IX**	**27 12 14 09**±1.0	**36.2N**±.11	**89.5W**±.11	**5**		**5**	**1-4**
NEIC	IX	27 12 14 09.3	36.20N	89.48W	5			**¶97ix4351**
NEIC	mbLg3.0(GS), Less reliable solution.							
ISC	**XII**	**02 23 41 16.2**±.79	**36.52N**±.076	**89.47W**±.079	**10**		**10**	**1-5**
NEIC	XII	02 23 41 16.1	36.53N	89.47W	10			**¶97xii0329**
NEIC	mbLg2.8(GS).							

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °

(488) Southern Illinois.

ISC	**IX 13 19 50 32**±1.8	**38.3N**±.19	**89.8W**±.11	**16**		**5**	**1-5**	
NEIC	IX 13 19 50 32.0	38.29N	89.71W	16				¶97ix2030
NEIC	mbLg2.8(SLM), After SLM.							

(491) West Virginia.

ISC	**X 28 10 36 46.5**±.45	**37.16N**±.052	**82.01W**±.053	**0**	**3.4b**	**23**	**1-146**	
EIDC	X 28 10 36 45.6	37.0N	81.6W	0	3.8L,3.3b			¶97x4743
NEIC	X 28 10 36 46.5	37.16N	82.03W	1				
NEIC	mbLg3.4(GS). Felt, Coal bump or rockburst in coal mine.							
NEIC	Probable coal bump. Felt.							

(492) Virginia.

ISC	**VII 27 15 10 38.3**±.76	**38.53N**±.071	**78.65W**±.090	**5**		**13**	**1-6**	
NEIC	VII 27 15 10 35.8	38.68N	78.39W	5				¶97vii4124
NEIC	mbLg2.5(GS), Less reliable solution.							
NEIC	Felt I=V MM at Brandy Station and Culpeper, III MM at Jeffersonton and II MM at Casanova.							
ISC	**IX 29 17 45 09**±1.2	**38.67N**±.087	**77.4W**±.19	**5**		**7**	**1-3**	
NEIC	IX 29 17 45 09.5	38.70N	77.50W	5				¶97ix4996
NEIC	mbLg2.5(GS). Felt, After MACR.							
NEIC	Felt in the Manassas area.							

(495) Eastern Arizona.

EIDC	**VIII 07 20 16 57.1**	**32.8N**	**109.5W**	**0**	3.4L		**3-39**	
ISC	Possible mining explosion (after NEIC)							¶97viii0997

(496) New Mexico.

EIDC	**X 19 11 12 12.1**	**32.3N**	**103.4W**	**0**	**3.6L**,3.3b			¶97x3337
ISC	**XII 31 13 28 33**±1.0	**34.57N**±.044	**106.4W**±.10	**8**±7.7		**21**	**0-8**	
NEIC	XII 31 13 28 30.0	34.53N	106.15W	5				¶97xii5904
NEIC	$M_{L3.5}$(GS)							
NEIC	Felt at Estancia, Moriarty and Mountainair.							
ISC	**XII 31 13 32 08**±1.6	**34.5N**±.10	**106.4W**±.14	**5**		**8**	**0-7**	
NEIC	XII 31 13 32 06.6	34.55N	106.15W	5				¶97xii5905
NEIC	M_L3.5(GS), After SPEC.							
NEIC	Held to the approximate hypocenter of previous event.							
NEIC	**XII 31 13 33 58.9**	**34.55N**	**106.15W**	**5**			**0-6**	
NEIC	M_L3.4(GS), After SPEC.							¶97xii5906
NEIC	Held to the hypocenter of previous event.							

(499) Oklahoma.

TUL	**VII 07 06 51 46.1**	**35.8N**	**98.4W**	**5**	**1.9D**			¶97vii1004
TUL	**VII 07 11 36 19.1**	**35.9N**	**99.1W**	**5**	**1.9D**			¶97vii1035
TUL	**VII 14 10 43 47.5**	**34.1N**	**96.7W**	**5**	**1.8L,1.9b**			¶97vii2108
TUL	**VII 18 19 08 38.7**	**34.7N**	**97.4W**	**5**	**2.3L,2.2b**			¶97vii2777
TUL	**VII 26 00 46 46.1**	**34.4N**	**97.2W**	**5**	**1.4L,1.7b**			¶97vii3893
TUL	**VIII 02 01 47 59.0**	**35.2N**	**97.5W**	**5**	**1.5L,1.7b**			¶97viii0149
TUL	**VIII 04 14 15 26.3**	**35.6N**	**96.3W**	**5**	**1.8D**			¶97viii0512
TUL	**VIII 05 00 37 07.7**	**34.6N**	**97.3W**	**5**	**1.2L,1.8D**			¶97viii0586
TUL	**VIII 10 14 12 59.2**	**35.0N**	**97.4W**	**5**	**2.5L,2.0D**			¶97viii1402
TUL	**VIII 16 00 20 27.9**	**35.0N**	**97.4W**	**5**	**2.1D**			¶97viii2292
TUL	**VIII 16 16 40 53.0**	**34.4N**	**97.2W**	**5**	**1.9D**			¶97viii2391
TUL	**VIII 23 09 10 35.2**	**35.1N**	**95.3W**	**5**	**2.6D**			¶97viii3375
TUL	**VIII 29 05 22 38.5**	**34.0N**	**96.4W**	**5**	**1.9L,1.7D**			¶97viii4240
ISC	**IX 06 23 37 56.4**±.67	**34.45N**±.076	**96.40W**±.047	**5**			**30**	**1-17**
EIDC	IX 06 23 37 58.0	34.7N	96.4W	0	4.2L			¶97ix0989
NEIC	IX 06 23 38 00.9	34.66N	96.44W	5				
TUL	IX 06 23 38 02.0	34.7N	96.5W	5	4.4b,3.7D			
NEIC	mbLg4.5(TUL), mbLg4.2(GS)							
NEIC	Felt I=V MM at Byars, Coleman, Fittstown, Francis, Lehigh, Stonewall, Tupelo and Wardville; IV MM at Ada, Bromide, Milburn, Roff and Wapanucka. Also felt at Norman, Oklahoma City and as far north as Tulsa. Felt in much of south-central Oklahoma.							
TUL	Felt I=VI MM							
TUL	**IX 12 19 31 55.9**	**34.4N**	**97.2W**	**5**	**1.6D**			¶97ix1864
TUL	**IX 18 12 32 02.9**	**34.9N**	**97.7W**	**5**	**1.8L,1.8D**			¶97ix2655
TUL	**IX 18 12 46 44.3**	**35.0N**	**97.7W**	**5**	**1.7D**			¶97ix2658
TUL	**IX 18 13 10 41.5**	**35.0N**	**97.7W**	**5**	**1.6D**			¶97ix2661
TUL	**IX 18 13 13 09.0**	**34.9N**	**97.7W**	**5**	**1.5D**			¶97ix2662
TUL	**IX 18 13 32 06.4**	**35.0N**	**97.7W**	**5**	**1.9D**			¶97ix2665
TUL	**IX 18 13 53 18.0**	**35.0N**	**97.7W**	**5**	**1.9D**			¶97ix2667
TUL	**IX 18 14 24 44.1**	**34.9N**	**97.7W**	**5**	**1.8D**			¶97ix2670
TUL	**IX 18 14 48 15.6**	**34.5N**	**97.4W**	**5**	**1.8D**			¶97ix2675
TUL	**IX 18 15 01 03.6**	**34.9N**	**97.7W**	**5**	**2.1L,1.8b**			¶97ix2677
TUL	**IX 18 15 31 09.9**	**34.9N**	**97.7W**	**5**	**1.8L,1.7D**			¶97ix2681
TUL	**IX 18 15 59 42.7**	**34.9N**	**97.9W**	**5**	**1.9L,1.8D**			¶97ix2684
TUL	**IX 18 17 40 52.6**	**34.9N**	**97.7W**	**5**	**2.3L,2.4b**			¶97ix2692
TUL	**IX 18 20 11 18.6**	**35.0N**	**97.7W**	**5**	**2.0L,1.8b**			¶97ix2710
TUL	**IX 21 15 06 46.6**	**34.5N**	**96.3W**	**5**	**1.8D**			¶97ix3117
TUL	**X 12 07 21 53.7**	**34.8N**	**97.5W**	**5**	**2.0D**			¶97x2004
TUL	**X 14 05 07 40.4**	**35.1N**	**96.4W**	**5**	**1.9D**			¶97x2341
TUL	**X 23 02 06 08.7**	**35.4N**	**97.9W**	**5**	**1.7D**			¶97x3909
TUL	**X 23 03 35 13.5**	**34.9N**	**97.6W**	**5**	**1.7D**			¶97x3920
TUL	**XI 02 07 08 56.7**	**36.0N**	**96.6W**	**5**	**1.5D**			¶97xi0212
TUL	**XI 04 17 01 11.3**	**34.7N**	**97.5W**	**5**	**2.0L,1.8b**			¶97xi0664
TUL	**XI 21 20 57 59.1**	**34.4N**	**97.1W**	**5**	**1.9D**			¶97xi3740
TUL	**XII 03 23 35 34.8**	**35.0N**	**97.2W**	**5**	**1.4D**			¶97xii0518
TUL	**XII 06 11 11 23.6**	**34.9N**	**96.0W**	**5**	**2.9L,2.8b**			¶97xii1376
TUL	**XII 10 08 50 35.3**	**34.7N**	**97.5W**	**5**	**2.0L,2.0b**			¶97xii2322
TUL	**XII 20 01 40 32.5**	**34.8N**	**97.7W**	**5**	**1.6L,1.4b**			¶97xii4070
TUL	**XII 20 13 18 43.6**	**34.7N**	**97.5W**	**5**	**2.0L,1.8b**			¶97xii4118
TUL	**XII 20 13 28 27.9**	**34.7N**	**97.7W**	**5**	**1.4L,1.6D**			¶97xii4122
TUL	**XII 20 13 30 14.4**	**34.7N**	**97.4W**	**5**	**1.2L**			¶97xii4124
TUL	**XII 20 13 36 30.6**	**34.7N**	**97.6W**	**5**	**2.0L,1.6D**			¶97xii4126
TUL	**XII 20 13 52 11.4**	**34.8N**	**97.5W**	**5**	**1.8L,1.8b**			¶97xii4128
TUL	**XII 21 16 58 42.5**	**35.8N**	**98.8W**	**5**	**1.5D**			¶97xii4280
TUL	**XII 21 17 27 49.1**	**34.7N**	**97.7W**	**5**	**1.4D**			¶97xii4284
TUL	**XII 22 00 59 51.7**	**34.6N**	**97.7W**	**5**	**1.8D**			¶97xii4329
TUL	**XII 23 09 07 14.8**	**34.7N**	**97.7W**	**5**	**1.6D**			¶97xii4574
TUL	**XII 24 02 33 10.9**	**34.8N**	**97.5W**	**5**	**1.8L,1.7b**			¶97xii4690

(500) Central Texas.

TUL	**VII 07 08 52 03.0**	**34.0N**	**96.8W**	**5**	**1.8L,2.3b**			¶97vii1016

(502) Arkansas.

ISC	**IX 17 18 16 30.0**±.76	**35.60N**±.090	**90.64W**±.077	**5**		**11**	**1-13**	
NEIC	IX 17 18 16 31.6	35.62N	90.46W	5				¶97ix2544
NEIC	mbLg3.8(GS).							
NEIC	Some items knocked from shelves I=V MM at Lepanto. Felt V MM at Trumann; IV MM at Leachville and Marked Tree; III MM at Bay, Black Oak, Caraway, Corning, Etowah, Lake City, Rivervale and Tyronza. Also felt at Jonesboro.							
NEIC	**XII 24 18 32 11.9**	**33.20N**	**92.75W**	**5**			**2-2**	
NEIC	mbLg2.6(GS). Felt, After MACR.							¶97xii4804
NEIC	Felt at El Dorado and Parkers Chapel.							

(506) Tennessee.

ISC	**VII 30 12 29 21.7**±.47	**36.58N**±.048	**83.68W**±.063	**5**	3.4b	**30**	**1-46**	
OTT	VII 30 12 29 23.0	36.5N	83.5W	5	3.7N			¶97vii4582
NEIC	VII 30 12 29 23.3	36.44N	83.51W	5				
EIDC	VII 30 12 29 30.2	35.8N	84.2W	0	3.1b,3.9L			
NEIC	mbLg3.8(GS)							
NEIC	Felt I=V MM at Bean Station and Morristown; IV MM at Blaine, Harrogate, New Tazewell, Speedwell, Talbott and Washburn. Also felt IV MM at Ewing, Virginia and Asheville, North Carolina. Felt in parts of Kentucky, North Carolina, Tennessee and Virginia.							
ISC	**XI 28 10 28 46**±2.0	**36.0N**±.22	**89.8W**±.13	**25**±21		**6**	**0-3**	
NEIC	XI 28 10 28 45.0	36.09N	89.73W	12				¶97xi5063
NEIC	M_D2.5(TEIC), mbLg2.3(GS), After TEIC.							

(507) Alabama.

ISC	**X 24 08 35 18.6**±.34	**31.19N**±.045	**87.20W**±.031	**10**	**4.8b,4.3s**	**136**	**4-148**	
NEIC	X 24 08 35 17.8	31.12N	87.34W	10	4.8b,4.2s			¶97x4128
EIDC	X 24 08 35 18.7	31.1N	87.2W	0	4.6b,4.7L			
NEIC	mbLg4.9(GS)							
NEIC	Felt I=VI MM at Brewton, Canoe and Lambeth; V MM at Atmore, Flomaton, Frisco City and Huxford; IV MM at Perdido and Robinsonville; III MM at Butler, Demopolis, Goodway, Mobile and Uriah. Felt V MM at Century; IV MM at McDavid, Pensacola and Walnut Hill; III MM at Milton, Florida. Felt IV MM at Leakesville, Mississippi. Also felt at Megargel; Elgin AFB, Florida; Biloxi and Gulfport, Mississippi.							
NEIC	**X 28 09 00 11.0**	**31.10N**	**87.30W**	**10**			**4-6**	
NEIC	mbLg3.0(GS), After SPEC.							¶97x4736
NEIC	Held to mainshock location.							
ISC	**XII 12 08 42 18.6**±.46	**33.39N**±.058	**87.26W**±.038	**0**	**4.2b**	**55**	**2-143**	
NEIC	XII 12 08 42 20.2	33.47N	87.31W	1	3.9b			¶97xii2719
EIDC	XII 12 08 42 20.6±.70	33.5N	87.2W	0	4.2b,4.0L			
NEIC	mbLg4.0(GS)							
NEIC	Felt in the epicentral area. Probable mine collapse.							
EIDC	Error ellipse is semi−major=16.7km semi−minor=14.6km azimuth=23							

(508) Western Florida.

ISC	**X 26 23 27 09**±2.6	**30.8N**±.22	**87.47W**±.094	**10**		**14**	**4-17**	
NEIC	X 26 23 27 12.0	31.10N	87.30W	10				¶97x4534
NEIC	mbLg3.7(GS). Felt, After SPEC.							
NEIC	Felt at Atmore, Flomaton and Huxford. Held to mainshock location.							

(509) Georgia.

ISC	**VII 19 17 06 35**±2.0	**34.99N**±.098	**84.73W**±.077	**11**±15		**15**	**0-7**	
NEIC	VII 19 17 06 34.3	35.06N	84.81W	10				¶97vii2920
NEIC	mbLg3.5(GS). Felt.							

(512) North Carolina.

ISC	**X 30 06 42 21**±1.9	**36.73N**±.082	**81.2W**±.24	**10**		**7**	**0-3**	
NEIC	X 30 06 42 22.7	36.71N	80.92W	10				¶97x5007
NEIC	$M_{D2.2}$(BLA)							
NEIC	Felt in the Galax-Fries-Ivanhoe area, Virginia.							
ISC	**X 30 15 59 40**±1.5	**36.74N**±.067	**81.0W**±.20	**9**		**7**	**0-3**	
NEIC	X 30 15 59 40.4	36.72N	80.93W	9				¶97x5064
NEIC	$M_{D2.1}$(BLA)							
NEIC	Felt in the Galax-Fries-Ivanhoe area, Virginia.							

(523) Central Mexico.

MEX	**VII 03 18 40 39.5**	**19.3N**	**99.5W**	**9**	**2.6D**			¶97vii0438
ISC	**VII 03 19 39 32**±1.2	**19.24N**±.090	**99.37W**±.090	**7**		**5**	**0-1**	
MEX	VII 03 19 39 32.5	19.3N	99.4W	7	2.8D			¶97vii0444
MEX	**VII 15 20 07 28.8**	**19.3N**	**98.8W**	**10**	**3.6D**			¶97vii2345
MEX	**VII 26 19 22 23.0**	**19.5N**	**99.0W**	**53**	**3.4D**			¶97vii4000
ISC	**VII 29 06 24 09**±4.2	**19.25N**±.090	**98.5W**±.28	**4**		**9**	**0-1**	
MEX	VII 29 06 24 11.7	19.1N	98.7W	4	3.7D			¶97vii4390
MEX	**VIII 05 15 50 23.6**	**19.5N**	**98.9W**	**11**	**3.2D**			¶97viii0686
MEX	**VIII 14 19 11 59.5**	**19.4N**	**98.6W**	**13**	**3.3D**			¶97viii2100
MEX	**VIII 18 17 39 40.5**	**19.4N**	**98.8W**	**7**	**3.5D**			¶97viii2698
ISC	**IX 06 08 47 28.4**±.97	**18.03N**±.072	**98.63W**±.099	**5**		**9**	**1-2**	
MEX	IX 06 08 47 31.7	18.1N	98.6W	5	3.6D			¶97ix0889
ISC	**IX 09 00 30 08**±5.1	**20.0N**±.34	**99.2W**±.12	**15**		**9**	**0-1**	
MEX	IX 09 00 30 03.4	20.4N	99.2W	15	3.9D			¶97ix1302
MEX	**IX 10 00 06 25.9**	**19.4N**	**99.0W**	**4**	**3.5D**			¶97ix1457
ISC	**IX 20 02 44 57**±1.0	**19.5N**±.11	**98.9W**±.18	**35**		**6**	**0-0**	
MEX	IX 20 02 44 58.3	19.4N	98.9W	35	3.8D			¶97ix2885
MEX	**IX 20 13 43 41.7**	**19.3N**	**99.2W**	**7**	**3.4D**			¶97ix2948
MEX	**X 05 23 57 55.6**	**19.3N**	**98.5W**	**6**	**3.4D**			¶97x0955
MEX	**X 10 01 02 39.0**	**21.7N**	**99.7W**	**10**	**4.0D**			¶97x1672
MEX	**X 10 12 21 55.2**	**19.3N**	**98.7W**	**13**	**3.3D**			¶97x1749
MEX	**X 12 20 31 44.7**	**19.4N**	**98.9W**	**11**	**3.4D**			¶97x2098
MEX	**X 13 14 52 38.6**	**19.3N**	**98.6W**	**9**	**3.4D**			¶97x2240
ISC	**X 17 06 19 54.6**±.89	**18.07N**±.071	**98.74W**±.093	**50**		**14**	**1-2**	
MEX	X 17 06 19 56.2	18.1N	98.7W	50	3.9D			¶97x2937
MEX	**X 17 16 58 16.5**	**19.3N**	**98.5W**	**25**	**3.5D**			¶97x3025
MEX	**X 22 00 43 37.9**	**19.2N**	**98.9W**	**16**	**3.2D**			¶97x3731
ISC	**XII 04 18 49 57**±1.4	**19.42N**±.094	**98.7W**±.15	**24**		**6**	**0-1**	
MEX	XII 04 18 49 57.4	19.4N	98.7W	24	3.4D			¶97xii0669
MEX	**XII 14 00 25 47.2**	**20.2N**	**99.1W**	**2**	**3.1D**			¶97xii3046
MEX	**XII 25 01 29 10.7**	**19.0N**	**98.6W**	**11**	**4.1D**			¶97xii4850
ISC	**XII 26 03 47 32**±5.8	**20.1N**±.49	**99.0W**±.16	**33**		**6**	**0-1**	
NEIC	XII 26 03 47 31.0	20.10N	99.04W	33				¶97xii5039
NEIC	M_D3.2(UNM), Poor solution.							

ISC XII 28 21 22 04±4.2 **18.9N**±.14 **98.4W**±.28 **7** **7 1-1**
MEX XII 28 21 22 04.9 18.9N 98.4W 7 3.5D **¶97xii5499**

(524) Jalisco, Mexico.

MEX VII 06 20 40 48.6 20.4N 104.0W 16 3.9D ¶97vii0935

(525) Veracruz State, Mexico.

ISC VII 05 02 40 17±1.2 **18.0N**±.14 **97.0W**±.13 **73** **5 1-2**
MEX VII 05 02 40 18.8 18.0N 96.9W 73 3.5D **¶97vii0663**
ISC Poorly determined
ISC IX 01 10 50 22.3±.55 **19.00N**±.051 **95.85W**±.046 **56**±8.1 **4.1b,**3.3s **66 1-134**
NEIC IX 01 10 50 19.5 18.94N 95.84W 33 4.3b **¶97ix0094**
MEX IX 01 10 50 24.0 19.1N 96.0W 16 4.4D
EIDC IX 01 10 50 24.9 19.0N 95.8W 64 3.9b,3.4s
NEIC Felt at Boca del Rio and Veracruz.
ISC IX 22 09 54 37.7±.88 **18.03N**±.081 **95.42W**±.070 **35**±17 3.9b **22 0-82**
NEIC IX 22 09 54 37.4 18.00N 95.44W 33 3.5b **¶97ix3259**
MEX IX 22 09 54 38.2 18.1N 95.5W 6 4.2D
ISC X 06 14 02 42±2.7 **19.3N**±.19 **97.5W**±.20 **16** **11 0-2**
MEX X 06 14 02 44.9 19.2N 97.4W 16 3.5D **¶97x1060**
MEX X 06 16 20 03.9 20.2N 99.0W 2 3.1D ¶97x1079
ISC X 18 03 14 37±1.5 **18.80N**±.097 **96.5W**±.13 **34** **8 1-2**
MEX X 18 03 14 36.5 18.8N 96.6W 34 3.7D **¶97x3093**
ISC XI 17 12 42 08±2.6 **19.2N**±.21 **97.6W**±.19 **4** **6 1-2**
MEX XI 17 12 42 06.6 19.2N 97.3W 4 3.5D **¶97xi2797**

(526) Gulf of Mexico.

ISC X 30 05 37 02±10 **21.0N**±.73 **96.0W**±.41 **19** **7 3-4**
MEX X 30 05 37 09.6 20.6N 96.2W 19 3.9D **¶97x4997**

(527) Gulf of Campeche.

ISC VII 11 21 08 29.8±.53 **19.47N**±.056 **92.15W**±.088 **20** **4.0b,3.2s** **25 3-146**
EIDC VII 11 21 08 26.7 19.3N 92.2W 0 3.9b,3.2s **¶97vii1730**
NEIC VII 11 21 08 30.7 19.39N 92.15W 33 4.1b
MEX VII 11 21 08 41.1 19.0N 92.7W 20 4.3D
NEIC Less reliable solution.
ISC IX 06 08 54 55.3±.58 **18.12N**±.046 **94.42W**±.041 **33**±6.2 **4.7b,3.8s** **150 0-141**
NEIC IX 06 08 54 55.0 18.10N 94.38W 33 4.7b,3.7s **¶97ix0891**
MEX IX 06 08 54 56.5 18.2N 94.4W 48 4.7D
EIDC IX 06 08 54 59.2 18.1N 94.4W 53 4.3b,3.9s
ISC IX 23 00 47 17.0±.79 **19.68N**±.088 **91.7W**±.10 **10** **4.0b** **16 5-63**
NEIC IX 23 00 47 16.7 19.66N 91.77W 10 4.1b **¶97ix3346**
EIDC IX 23 00 47 17.2 19.8N 91.5W 0 4.1b,3.9L
NEIC Less reliable solution.

SEISMIC REGION 36.
NORTHWESTERN EUROPE.

(533) United Kingdom.

ISC VII 30 08 34 43.6±.79 **56.25N**±.065 **3.7W**±.11 **12**±10 **11 0-3**
BGS VII 30 08 34 44.0 56.25N 3.75W 5 2.4L **¶97vii4558**
BGS Felt I=IV+ MSK,Blackford, Tayside
BGS VIII 12 03 05 53.4 53.06N 1.08W 1 1.1L ¶97viii1671
BGS Felt I=IV+ MSK,Oxton, Nottinghamshire
ISC VIII 26 19 57 50.8±.98 **56.20N**±.086 **4.2W**±.12 **18**±13 **11 0-3**
BGS VIII 26 19 57 51.5 56.20N 4.10W 4 2.6L **¶97viii3897**
BGS Felt I=IV+ MSK, Doune, Callender, Thornhill, Deanston and Dunblane areas
ISC IX 16 00 39 06.7±.93 **56.27N**±.056 **3.7W**±.13 **14**±9.2 **9 0-1**
BGS IX 16 00 39 07.2 56.25N 3.75W 5 2.1L **¶97ix2302**
BGS Felt I=III+ MSK,Blackford, Tayside
ISC X 06 06 21 40.4±.94 **56.19N**±.080 **4.1W**±.12 **16**±14 **11 0-1**
BGS X 06 06 21 41.0 56.20N 4.10W 4 2.7L **¶97x1007**
BGS Felt I=IV+ MSK, Doune, Callander, Thornhill, Deanston and Dunblane areas
ISC X 08 09 37 15±1.1 **54.2N**±.12 **3.1W**±.15 **23**±11 **7 0-2**
BGS X 08 09 37 16.0 54.23N 3.12W 12 2.1L **¶97x1382**
BGS Felt I=III+ MSK Ulverston, Bouth, Broughton Beck and Kirkby−in−Furnace
ISC X 16 00 19 09.6±.68 **50.36N**±.051 **3.55W**±.099 **21**±10 **32 0-8**
NEIC X 16 00 19 08.2 50.48N 3.47W 10 **¶97x2755**
BGS X 16 00 19 11.7 50.39N 3.73W 10 2.8L
LDG X 16 00 19 12.4 50.3N 3.7W 3.2L
NEIC Less reliable solution.
BGS Felt I=IV MSK, Dartmouth area over some 1400 sq kms
ISC X 19 02 42 22±1.7 **57.7N**±.13 **5.6W**±.13 **9** **6 0-1**
BGS X 19 02 42 23.5 57.59N 5.65W 9 2.5L **¶97x3277**
ISC XI 08 04 47 01.3±.97 **57.63N**±.098 **5.5W**±.15 **24**±13 **9 0-3**
BGS XI 08 04 47 01.5 57.67N 5.57W 10 2.5L **¶97xi1214**
BGS Felt I=IV+ MSK, Gairloch
ISC XI 30 00 59 23.6±.79 **56.19N**±.069 **4.2W**±.11 **18**±10 **13 0-4**
NEIC XI 30 00 59 23.5 56.16N 4.13W 10 **¶97xi5346**
BGS XI 30 00 59 24.4 56.20N 4.10W 4 2.7L
NEIC ML2.7(BGS). Felt I=IV MM.
BGS Felt I=IV+ MSK at Doune, Callander, Thornhill, Deanston and Dunblane areas.
ISC XII 08 23 56 02±1.5 **57.05N**±.099 **4.6W**±.11 **6**±16 **11 0-1**
BGS XII 08 23 56 03.4 57.10N 4.60W 7 2.3L **¶97xii2044**
BGS Felt I=IV MSK Fort Augustus

(534) North Sea.

ISC VII 12 04 07 03±2.5 **56.3N**±.34 **3.4E**±.40 **10** **5 3-7**
BER VII 12 04 07 05.4 56.4N 2.9E 10 2.8D,1.8L **¶97vii1772**
ISC IX 10 18 22 32±4.3 **52.3N**±.33 **3.6E**±.16 **0** **17 2-7**
LDG IX 10 18 22 33.4 52.5N 3.8E 2.7L **¶97ix1557**
ISC XI 13 10 16 20±1.4 **57.5N**±.12 **7.8E**±.14 **0** **13 2-14**
EIDC XI 13 10 16 23.8 57.8N 7.5E 0 3.2L **¶97xi2119**
ISC XI 13 10 37 09±1.1 **57.59N**±.092 **7.9E**±.20 **0** **11 2-14**
BER XI 13 10 37 12.0 57.6N 7.7E 0 2.7D,2.3L **¶97xi2122**
ISC XI 15 16 11 48.0±.29 **56.80N**±.025 **7.62E**±.077 **10** **65 1-22**
NEIC XI 15 16 11 48.4 56.85N 7.43E 10 **¶97xi2503**
EIDC XI 15 16 11 49.7 56.9N 7.7E 0 4.3L
HEL XI 15 16 11 54 57.06N 7.91E 3.4L
SZGRF XI 15 16 11 54.3 56.6N 7.9E 10 3.8L
LDG XI 15 16 11 54.7 56.7N 7.2E 4.0L
BER XI 15 16 11 55.4 57.0N 7.8E 10 3.4D,3.1L
ISC Complex event. EIDC reported second shock at 16:11:57 56.7N 7.7E 0km ML4.4
HEL Md=3.5
BER XI 19 09 48 32.9 57.2N 7.6E 0 2.6D ¶97xi3189
ISC XII 04 22 03 41.3±.30 **56.85N**±.027 **7.60E**±.070 **10** **64 1-16**
NEIC XII 04 22 03 40.6 56.88N 7.53E 10 **¶97xii0699**
EIDC XII 04 22 03 42.3±2.17 56.9N 7.7E 0 4.2L
BER XII 04 22 03 47.2 56.9N 7.7E 15
LDG XII 04 22 03 47.9 56.7N 7.3E 3.8L
HEL XII 04 22 03 48 56.95N 7.89E 3.4L
SZGRF XII 04 22 03 49.8 56.5N 7.9E 10 3.6L
STR XII 04 22 03 52.1 56.35N 7.24E 11 3.8L
EIDC Error ellipse is semi−major=38.6km semi−minor=21.8km azimuth=134

(535) Southern Norway.

ISC VII 03 15 52 38±1.4 **60.39N**±.055 **5.0E**±.24 **0** **8 0-4**
BER VII 03 15 52 39.9 60.4N 5.0E 0 1.4D,1.4L **¶97vii0427**
BER Probable explosion
ISC VII 04 18 48 50.9±.78 **60.62N**±.047 **5.5E**±.16 **0** **9 0-2**
BER VII 04 18 48 51.8 60.5N 4.8E 0 1.8D,1.6L **¶97vii0605**
BER Probable explosion
ISC VII 05 07 40 18.1±.79 **61.51N**±.058 **5.3E**±.14 **8** **13 0-10**
BER VII 05 07 40 19.8 61.5N 5.0E 8 2.7D,2.4L **¶97vii0697**
BER VII 09 13 12 46.4 58.3N 6.4E 0 1.9D,1.6L ¶97vii1343
BER Explosion
BER VII 10 14 20 14.9 61.8N 4.3E 0 1.7D ¶97vii1522
BER Probable explosion
ISC VII 11 13 13 49±1.2 **58.32N**±.092 **6.6E**±.18 **0** **10 1-10**
BER VII 11 13 13 51.6 58.3N 6.4E 0 2.3D,2.2L **¶97vii1686**
EIDC VII 11 13 13 52.2 58.4N 6.7E 0 3.1L
BER Probable explosion
ISC VII 25 15 07 54±1.3 **59.4N**±.11 **5.6E**±.18 **0** **4 0-3**
BER VII 25 15 07 55.3 59.3N 5.6E 0 1.8D,1.7L **¶97vii3838**
ISC Poorly determined
BER Probable explosion
ISC VII 25 17 43 24±1.4 **59.4N**±.11 **6.3E**±.14 **0** **11 0-4**
BER VII 25 17 43 26.6 59.3N 6.1E 0 2.1D,1.9L **¶97vii3853**
BER Probable explosion
ISC VII 28 11 52 01±1.5 **60.37N**±.073 **4.9E**±.31 **0** **5 1-1**
BER VII 28 11 52 02.3 60.3N 4.8E 0 1.6D,1.6L **¶97vii4264**
BER Probable explosion
ISC VIII 08 18 36 08±4.0 **63.0N**±.34 **8.4E**±.38 **0** **4 1-8**
BER VIII 08 18 36 10.9 63.0N 8.2E 0 2.2D **¶97viii1149**
ISC Poorly determined
BER Probable explosion
ISC VIII 11 09 29 42±1.7 **60.10N**±.056 **4.8E**±.26 **0** **7 0-1**
BER VIII 11 09 29 43.6 60.1N 4.9E 0 1.4D,1.0L **¶97viii1539**
BER Probable explosion
ISC VIII 12 08 14 21.5±.80 **59.76N**±.080 **6.75E**±.096 **13** **16 0-10**
HEL VIII 12 08 14 24 59.82N 6.63E 3.3L **¶97viii1699**
BER VIII 12 08 14 24.5 59.8N 6.5E 13 2.9D,3.0L
BGS VIII 12 08 14 24.8 59.77N 6.31E 15 3.0L
HEL Felt,Md3.3
BER VIII 12 15 24 12.3 60.6N 5.0E 0 1.3D,1.0L ¶97viii1774
BER Probable explosion
BER VIII 13 12 58 23.4 60.3N 5.2E 0 0.6D,0.9L ¶97viii1910
BER Probable explosion
ISC VIII 15 12 23 40±1.3 **59.75N**±.076 **5.5E**±.29 **0** **4 1-1**
BER VIII 15 12 23 41.9 59.7N 5.4E 0 1.7D **¶97viii2216**
ISC Poorly determined
BER Probable explosion
BER VIII 15 12 30 01.9 58.8N 5.4E 0 1.5D,0.6L ¶97viii2218
BER Probable explosion
BER VIII 19 15 44 40.7 58.9N 5.9E 0 1.4D ¶97viii2829
BER Probable explosion
BER VIII 21 12 28 42.1 60.5N 5.5E 0 0.4D,1.0L ¶97viii3095
BER Probable explosion
ISC VIII 22 13 46 13±1.2 **60.88N**±.076 **5.2E**±.22 **0** **4 0-1**
BER VIII 22 13 46 13.7 60.9N 5.1E 0 1.7D **¶97viii3234**
ISC Poorly determined
BER Probable explosion
ISC VIII 22 14 57 09±1.4 **60.40N**±.055 **5.0E**±.24 **0** **8 0-4**
BER VIII 22 14 57 10.5 60.4N 5.0E 0 1.5D,1.5L **¶97viii3242**
BER Probable explosion
ISC VIII 25 17 57 52±1.3 **60.76N**±.081 **5.5E**±.26 **0** **4 0-1**
BER VIII 25 17 57 52.7 60.7N 5.6E 0 1.6D **¶97viii3721**
ISC Poorly determined
BER Probable explosion
BER VIII 25 18 19 38.9 60.7N 5.1E 0 1.3D,1.0L ¶97viii3722
BER Probable explosion
ISC VIII 26 14 08 55±2.1 **59.74N**±.077 **5.8E**±.51 **0** **5 1-1**
BER VIII 26 14 08 57.1 59.7N 5.2E 0 1.6D,1.2L **¶97viii3859**
BER Probable explosion
ISC VIII 28 13 18 41±9.8 **58.4N**±.66 **6.2E**±.41 **0** **6 1-3**
BER VIII 28 13 18 39.7 58.1N 6.3E 0 2.4D,1.7L **¶97viii4138**
BER Probable explosion
BER VIII 29 09 34 07.1 62.9N 8.2E 0 1.9D,2.0L ¶97viii4268
BER Probable explosion
BER VIII 29 14 07 10.6 60.3N 5.2E 0 0.8D,0.7L ¶97viii4319
BER Probable explosion
BER IX 01 14 41 17.4 62.3N 6.8E 0 1.4D ¶97ix0117
BER Probable explosion
BER IX 03 19 05 00.8 60.6N 5.3E 0 1.3D ¶97ix0464
BER Probable explosion
BER IX 05 07 33 49.4 60.8N 5.1E 0 1.3D ¶97ix0709
BER Probable explosion
ISC IX 06 17 04 48±2.3 **62.4N**±.19 **7.0E**±.33 **0** **5 0-4**
BER IX 06 17 04 49.9 62.4N 7.0E 0 1.7D,1.7L **¶97ix0947**
BER Probable explosion
BER IX 10 13 18 56.2 58.2N 6.4E 0 1.9D ¶97ix1526
BER Explosion
BER IX 10 18 30 46.1 62.5N 6.5E 0 1.6D ¶97ix1558
BER Probable explosion
BER IX 11 14 20 56.3 60.4N 4.8E 0 1.7D ¶97ix1688
BER Probable explosion
BER IX 15 14 55 51.7 59.7N 5.3E 0 1.6D ¶97ix2256
BER Probable explosion
ISC IX 15 15 58 47.5±.90 **60.19N**±.052 **5.3E**±.18 **9** **14 0-14**
BER IX 15 15 58 48.6 60.2N 5.2E 9 2.6D,2.7L **¶97ix2261**
BER IX 18 15 56 57.7 60.9N 5.1E 0 0.9D,1.4L ¶97ix2683
BER Probable explosion

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
BER	**IX 22 14 22 48.6**	**60.6N**	**5.3E**	**0**	**1.2D**		**¶97ix3293**
BER	Probable explosion						
ISC	**IX 22 15 01 09**±1.4	**60.76N**±.082	**5.6E**±.26	**0**		**4**	**0-1**
BER	IX 22 15 01 10.5	60.7N	5.6E	0	1.6D		**¶97ix3297**
ISC	Poorly determined						
BER	Probable explosion						
BER	**IX 23 14 04 56.1**	**59.3N**	**6.1E**	**0**	**1.3D,1.8L**		**¶97ix3430**
BER	Probable explosion						
ISC	**IX 25 10 18 44**±1.1	**60.47N**±.070	**5.5E**±.17	**0**		**6**	**0-1**
BER	IX 25 10 18 45.1	60.5N	5.4E	0	1.3D,1.3L		**¶97ix3722**
BER	Probable explosion						
ISC	**IX 25 12 39 25**±1.3	**59.4N**±.14	**5.6E**±.23	**0**		**4**	**0-2**
BER	IX 25 12 39 25.5	59.2N	5.7E	0	1.4D,0.9L		**¶97ix3741**
ISC	Poorly determined						
BER	Probable explosion						
BER	**IX 25 13 04 08.6**	**58.2N**	**6.1E**	**0**	**1.5D**		**¶97ix3744**
BER	Probable explosion						
BER	**IX 25 13 28 11.0**	**58.3N**	**6.4E**	**0**	**2.2D,1.6L**		**¶97ix3747**
BER	Explosion						
BER	**IX 25 16 13 16.2**	**59.7N**	**10.0E**	**0**	**1.2D**		**¶97ix3759**
BER	Probable explosion						
BER	**IX 26 12 12 40.7**	**59.3N**	**6.0E**	**0**	**1.2D,1.2L**		**¶97ix3984**
BER	Probable explosion						
ISC	**IX 29 17 27 52**±1.1	**60.69N**±.059	**5.3E**±.25	**0**		**5**	**0-1**
BER	IX 29 17 27 53.6	60.7N	5.2E	0	1.3D		**¶97ix4991**
BER	Probable explosion						
BER	**X 01 13 15 20.5**	**58.4N**	**7.5E**	**0**	**2.3D,1.8L**		**¶97x0091**
BER	Probable explosion						
BER	**X 04 13 40 39.4**	**60.6N**	**4.8E**	**0**	**1.3D,1.2L**		**¶97x0654**
BER	Probable explosion						
BER	**X 04 16 53 36.7**	**60.8N**	**5.2E**	**0**	**1.3D,1.0L**		**¶97x0692**
BER	Probable explosion						
ISC	**X 06 16 03 53**±1.2	**60.73N**±.066	**5.5E**±.24	**0**		**5**	**0-1**
BER	X 06 16 03 54.1	60.7N	5.6E	0	1.8D		**¶97x1074**
BER	Probable explosion						
BER	**X 07 12 51 33.4**	**60.7N**	**5.6E**	**0**	**1.6D,1.4L**		**¶97x1252**
BER	Probable explosion						
ISC	**X 07 14 53 53**±1.6	**60.38N**±.070	**4.8E**±.23	**0**		**6**	**0-1**
BER	X 07 14 53 55.0	60.4N	4.9E	0	1.3D,1.8L		**¶97x1267**
BER	Probable explosion						
ISC	**X 08 13 20 04**±14	**58.3N**±.89	**6.4E**±.61	**0**		**6**	**1-3**
BER	X 08 13 20 05.6	58.3N	6.3E	0	2.2D,1.6L		**¶97x1424**
BER	Probable explosion						
BER	**X 09 11 07 52.8**	**60.4N**	**5.2E**	**0**	**0.7D,0.9L**		**¶97x1576**
BER	Probable explosion						
BER	**X 13 17 06 00.2**	**60.5N**	**10.7E**	**197**	**2.5D,1.9L**		**¶97x2252**
ISC	**X 15 13 14 09**±8.5	**58.6N**±.51	**6.2E**±.38	**0**		**6**	**1-3**
BER	X 15 13 14 07.4	58.3N	6.5E	0	2.1D,1.3L		**¶97x2643**
BER	Explosion						
ISC	**X 16 13 04 47**±1.4	**60.75N**±.083	**5.6E**±.26	**0**		**4**	**0-1**
BER	X 16 13 04 48.3	60.7N	5.6E	0	1.7D		**¶97x2840**
ISC	Poorly determined						
BER	Probable explosion						
ISC	**X 20 13 50 58.8**±.74	**60.35N**±.058	**5.5E**±.12	**0**		**8**	**0-4**
BER	X 20 13 50 58.6	60.4N	5.0E	0	1.5D,2.4L		**¶97x3509**
BER	Probable explosion						
ISC	**X 23 12 38 30**±1.4	**59.4N**±.12	**6.0E**±.18	**0**		**4**	**0-1**
BER	X 23 12 38 30.9	59.3N	6.1E	0	1.2D,1.6L		**¶97x3997**
ISC	Poorly determined						
BER	Probable explosion						
BER	**X 24 16 08 20.4**	**58.9N**	**6.1E**	**0**	**1.7D,2.0L**		**¶97x4194**
BER	Probable explosion						
BER	**X 28 12 37 59.2**	**60.5N**	**5.4E**	**0**	**1.5D,2.1L**		**¶97x4762**
BER	Probable explosion						
BER	**X 31 12 22 25.0**	**60.7N**	**5.4E**	**0**	**1.6D**		**¶97x5178**
BER	Probable explosion						
BER	**XI 01 10 14 21.0**	**61.4N**	**5.5E**	**0**	**0.8D**		**¶97xi0062**
BER	Explosion						
BER	**XI 03 14 47 32.9**	**59.7N**	**5.2E**	**0**	**0.9D**		**¶97xi0482**
BER	Probable explosion						
BER	**XI 04 07 00 09.6**	**60.6N**	**5.4E**	**0**	**1.1D,1.9L**		**¶97xi0591**
BER	Probable explosion						
BER	**XI 04 13 37 48.1**	**63.6N**	**10.9E**	**0**	**1.8D,1.0L**		**¶97xi0646**
BER	Probable explosion						
BER	**XI 06 14 12 51.3**	**58.5N**	**7.1E**	**0**	**2.1D**		**¶97xi0988**
BER	Probable explosion						
ISC	**XI 10 11 33 51**±1.4	**60.41N**±.056	**4.9E**±.24	**0**		**8**	**0-4**
BER	XI 10 11 33 52.5	60.4N	4.9E	0	1.4D,1.7L		**¶97xi1607**
BER	Probable explosion						
BER	**XI 11 14 15 37.2**	**58.8N**	**7.9E**	**0**	**1.9D,1.3L**		**¶97xi1803**
BER	Probable explosion						
ISC	**XI 11 15 04 29**±1.6	**59.5N**±.12	**6.4E**±.58	**0**		**4**	**0-2**
BER	XI 11 15 04 30.6	59.5N	6.6E	0	1.4D,1.5L		**¶97xi1812**
ISC	Poorly determined						
BER	Probable explosion						
BER	**XI 12 10 48 59.8**	**60.7N**	**5.7E**	**0**	**1.1D**		**¶97xi1970**
BER	Probable explosion						
ISC	**XI 12 15 40 18**±1.2	**60.45N**±.061	**5.4E**±.22	**0**		**5**	**0-1**
BER	XI 12 15 40 19.3	60.4N	5.3E	0	0.8D,1.1L		**¶97xi2006**
BER	Probable explosion						
ISC	**XI 13 09 21 40**±2.3	**60.05N**±.094	**4.4E**±.29	**0**		**13**	**0-13**
BER	XI 13 09 21 43.4	60.1N	4.6E	0	2.5D,2.2L		**¶97xi2107**
BER	Probable explosion						
ISC	**XI 13 14 15 56**±14	**58.4N**±.92	**6.4E**±.98	**0**		**6**	**1-3**
BER	XI 13 14 15 57.4	58.3N	6.5E	0	2.5D		**¶97xi2149**
BER	Explosion						
BER	**XI 15 14 54 50.2**	**61.7N**	**5.1E**	**0**	**0.9D**		**¶97xi2492**
BER	Probable explosion						
ISC	**XI 18 12 58 17**±1.0	**60.42N**±.083	**5.3E**±.16	**0**		**6**	**0-10**
BER	XI 18 12 58 16.6	60.5N	5.5E	0	1.3D,1.9L		**¶97xi2962**
BER	Probable explosion						
BER	**XI 19 13 08 03.3**	**59.4N**	**6.0E**	**0**	**1.2D**		**¶97xi3225**
BER	Probable explosion						
ISC	**XI 19 13 19 39**±1.2	**60.42N**±.054	**5.2E**±.20	**0**		**10**	**0-12**
BER	XI 19 13 19 39.4	60.4N	4.9E	0	1.6D,1.8L		**¶97xi3228**
BER	Probable explosion						
ISC	**XI 19 14 15 52**±5.4	**58.2N**±.40	**6.5E**±.39	**0**		**10**	**1-14**
BER	XI 19 14 15 56.6	58.4N	6.1E	0	2.2D		**¶97xi3236**
BER	Explosion						
ISC	**XI 20 15 33 05**±2.8	**60.4N**±.11	**4.9E**±.40	**0**		**5**	**0-1**
BER	XI 20 15 33 06.6	60.4N	4.9E	0	1.1D,1.4L		**¶97xi3482**
BER	Probable explosion						
BER	**XI 21 12 24 28.9**	**60.4N**	**5.0E**	**0**	**1.1D,1.3L**		**¶97xi3650**
BER	Probable explosion						
ISC	**XI 21 13 16 05**±1.3	**60.56N**±.072	**5.5E**±.26	**0**		**5**	**0-1**
BER	XI 21 13 16 05.7	60.5N	5.6E	0	1.1D,1.5L		**¶97xi3659**
BER	Probable explosion						
ISC	**XI 21 15 19 33**±2.2	**61.6N**±.13	**5.1E**±.37	**0**		**4**	**1-1**
BER	XI 21 15 19 35.3	61.6N	5.1E	0	1.4D,1.3L		**¶97xi3676**
ISC	Poorly determined						
BER	Probable explosion						
ISC	**XI 26 14 54 10**±4.5	**59.4N**±.29	**6.0E**±.33	**0**		**4**	**0-1**
BER	XI 26 14 54 09.9	59.3N	6.1E	0	1.2D,1.6L		**¶97xi4708**
ISC	Poorly determined						
BER	Probable explosion						
BER	**XI 26 15 21 15.8**	**60.9N**	**5.1E**	**0**	**0.9D**		**¶97xi4710**
BER	Probable explosion						
ISC	**XI 27 15 16 30.6**±.83	**60.69N**±.056	**5.6E**±.18	**0**		**7**	**0-2**
BER	XI 27 15 16 32.6	60.7N	5.5E	0	1.6D,1.3L		**¶97xi4883**
BER	Probable explosion						
ISC	**XI 28 14 58 52.7**±.83	**60.70N**±.053	**5.6E**±.16	**0**		**7**	**0-2**
BER	XI 28 14 58 54.3	60.7N	5.5E	0	1.6D,1.8L		**¶97xi5104**
BER	Probable explosion						
ISC	**XII 02 14 58 41**±1.6	**60.37N**±.064	**4.8E**±.27	**0**		**6**	**0-1**
BER	XII 02 14 58 42.4	60.4N	4.9E	0	1.4D,1.6L		**¶97xii0265**
BER	Probable explosion						
ISC	**XII 04 12 57 47**±1.1	**60.60N**±.059	**5.3E**±.22	**0**		**5**	**0-1**
BER	XII 04 12 57 48.1	60.6N	5.2E	0	1.2D		**¶97xii0618**
BER	Probable explosion						
ISC	**XII 04 14 32 52**±1.1	**60.52N**±.081	**5.6E**±.16	**0**		**6**	**0-1**
BER	XII 04 14 32 53.3	60.5N	5.5E	0	1.2D,1.8L		**¶97xii0628**
BER	Probable explosion						
BER	**XII 04 19 05 30.0**	**60.5N**	**5.5E**	**0**	**1.1D**		**¶97xii0671**
BER	Probable explosion						
BER	**XII 09 14 11 03.8**	**59.4N**	**6.1E**	**0**	**1.4D,1.6L**		**¶97xii2183**
BER	Probable explosion						
ISC	**XII 10 12 27 30**±4.7	**60.3N**±.25	**5.4E**±.38	**0**		**4**	**0-1**
BER	XII 10 12 27 31.2	60.2N	5.3E	0	1.1D,1.4L		**¶97xii2352**
ISC	Poorly determined						
BER	Probable explosion						
BER	**XII 10 13 49 47.4**	**62.0N**	**5.6E**	**0**	**1.5D**		**¶97xii2364**
BER	Probable explosion						
ISC	**XII 10 14 53 54**±2.5	**61.1N**±.15	**7.4E**±.38	**0**		**5**	**1-1**
BER	XII 10 14 53 55.9	61.1N	7.5E	0	1.5D		**¶97xii2371**
BER	Probable explosion						
BER	**XII 12 12 21 11.1**	**62.2N**	**5.6E**	**0**	**1.7D**		**¶97xii2747**
BER	Probable explosion						
ISC	**XII 16 13 19 21**±2.3	**60.39N**±.089	**4.9E**±.36	**0**		**5**	**0-1**
BER	XII 16 13 19 23.1	60.4N	5.0E	0	1.4D,1.7L		**¶97xii3452**
BER	Probable explosion						
ISC	**XII 16 14 19 30**±3.1	**58.7N**±.25	**7.0E**±.19	**0**		**9**	**1-13**
BER	XII 16 14 19 28.7	58.3N	6.3E	0	2.2D,1.5L		**¶97xii3460**
BER	Explosion						
ISC	**XII 17 14 13 40**±1.4	**59.4N**±.11	**6.0E**±.16	**0**		**6**	**0-2**
BER	XII 17 14 13 40.8	59.3N	6.1E	0	1.6D,1.6L		**¶97xii3612**
BER	Explosion						
ISC	**XII 18 14 17 59**±12	**58.6N**±.72	**6.2E**±.46	**0**		**5**	**1-2**
BER	XII 18 14 17 55.4	58.3N	6.4E	0	2.1D		**¶97xii3780**
ISC	Poorly determined						
BER	Explosion						
ISC	**XII 22 13 35 12**±1.0	**63.53N**±.082	**11.2E**±.26	**0**		**6**	**1-8**
BER	XII 22 13 35 15.1	63.6N	11.1E	0	2.0D		**¶97xii4430**
BER	Probable explosion						
ISC	**XII 25 15 29 36**±1.6	**60.53N**±.062	**7.3E**±.27	**0**		**8**	**1-2**
BER	XII 25 15 29 39.0	60.5N	7.2E	0	2.0D,1.7L		**¶97xii4953**
BER	Probable explosion						

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BER	**VII 04 15 42 56.8**	**67.8N**	**20.1E**	**0**	**2.4D,1.7L**		**¶97vii0586**
BER	Probable explosion						
BER	**VII 04 23 19 29.3**	**67.9N**	**21.0E**	**0**	**2.4D,1.7L**		**¶97vii0635**
BER	Probable explosion						
BER	**VII 05 23 18 07.9**	**67.6N**	**20.3E**	**0**	**1.7L**		**¶97vii0806**
BER	Probable explosion						
BER	**VII 05 23 22 33.1**	**67.8N**	**19.7E**	**0**	**2.5D,1.7L**		**¶97vii0808**
BER	Probable explosion						
BER	**VII 06 03 03 23.2**	**67.9N**	**18.9E**	**0**	**2.3D,1.4L**		**¶97vii0832**
BER	Probable explosion						
ISC	**VII 07 15 31 20**±1.2	**67.2N**±.10	**21.5E**±.31	**0**		**5**	**2-8**
BER	VII 07 15 31 24.1	67.3N	21.1E	0			**¶97vii1061**
BER	Probable explosion						
BER	**VII 08 23 34 16.3**	**67.8N**	**19.7E**	**0**	**2.3D,1.6L**		**¶97vii1251**
BER	Probable explosion						
BER	**VII 09 23 28 16.0**	**67.8N**	**19.7E**	**0**	**2.6D,1.7L**		**¶97vii1410**
BER	Probable explosion						
BER	**VII 10 23 35 30.7**	**67.6N**	**20.3E**	**0**	**1.9D**		**¶97vii1588**
BER	Probable explosion						
BER	**VII 12 18 31 02.7**	**67.4N**	**21.1E**	**0**	**2.4D**		**¶97vii1853**
BER	Probable explosion						
BER	**VII 12 23 37 13.9**	**68.0N**	**21.1E**	**0**	**2.9D,2.5L**		**¶97vii1887**
BER	Probable explosion						
BER	**VII 14 23 29 33.1**	**67.5N**	**20.9E**	**0**	**2.4D,1.6L**		**¶97vii2219**
BER	Probable explosion						
BER	**VII 16 23 32 58.9**	**67.8N**	**19.4E**	**0**	**2.3D,1.6L**		**¶97vii2514**
BER	Probable explosion						
BER	**VII 18 23 30 40.1**	**67.7N**	**20.5E**	**0**	**2.5D,1.7L**		**¶97vii2799**
BER	Probable explosion						
BER	**VII 18 23 33 26.4**	**67.8N**	**19.7E**	**0**	**2.3D,1.7L**		**¶97vii2800**
BER	Probable explosion						
BER	**VII 19 03 48 05.7**	**67.7N**	**19.7E**	**0**	**2.3D,1.6L**		**¶97vii2827**
BER	Probable explosion						
BER	**VII 19 23 21 21.3**	**67.8N**	**19.2E**	**0**	**2.4D,1.8L**		**¶97vii2971**
BER	Probable explosion						
BER	**VII 20 23 30 23.6**	**67.9N**	**19.8E**	**0**	**2.3D**		**¶97vii3159**
BER	Probable explosion						
BER	**VII 23 00 57 59.0**	**67.8N**	**19.7E**	**0**	**2.0D,1.5L**		**¶97vii3462**
BER	Probable explosion						

BER VII 24 06 30 41.2 67.8N 20.8E 0 2.0D,1.7L ¶97vii3632
BER Probable explosion
BER VII 24 15 38 29.4 66.7N 21.1E 0 2.6D,1.8L ¶97vii3693
BER Probable explosion
BER VII 27 23 24 56.1 67.8N 20.1E 0 2.3D,1.9L ¶97vii4177
BER Probable explosion
BER VII 28 23 23 39.8 67.8N 20.1E 0 2.3D ¶97vii4341
BER Probable explosion
BER VII 29 22 05 08.5 67.2N 20.4E 0 2.3D,1.5L ¶97vii4490
BER Probable explosion
BER VII 29 23 29 55.3 67.7N 20.6E 0 2.6D,2.1L ¶97vii4501
BER Probable explosion
BER VII 30 23 50 07.5 67.8N 20.8E 0 2.2D,1.6L ¶97vii4651
BER Probable explosion
BER VII 30 23 52 41.6 68.0N 20.3E 0 2.4D,1.7L ¶97vii4652
BER Probable explosion
BER VII 31 00 06 21.1 67.8N 20.1E 0 2.3D,1.4L ¶97vii4655
BER Probable explosion
BER VII 31 23 26 27.3 67.5N 20.9E 0 2.4D,1.7L ¶97vii4801
BER Probable explosion
BER VIII 11 23 21 33.5 67.8N 20.1E 0 2.2D,1.6L ¶97viii1644
BER Probable explosion
BER VIII 12 15 30 18.8 67.4N 20.1E 0 2.8D ¶97viii1775
BER Probable explosion
BER VIII 12 23 20 43.7 67.8N 20.2E 0 2.2D,1.6L ¶97viii1819
BER Probable explosion
BER VIII 12 23 29 38.4 67.8N 20.2E 0 2.2D,1.3L ¶97viii1822
BER Probable explosion
BER VIII 12 23 31 20.8 67.8N 20.2E 0 2.2D,1.6L ¶97viii1823
BER Probable explosion
ISC VIII 13 15 29 46±5.0 66.7N±.35 21.6E±.82 0 4 2-3
BER VIII 13 15 29 50.4 66.9N 21.5E 0 2.8D **¶97viii1930**
ISC Poorly determined
BER Probable explosion
ISC VIII 13 23 26 00±2.2 67.8N±.20 20.5E±.49 0 4 2-3
BER VIII 13 23 26 04.8 68.0N 20.4E 0 2.6D **¶97viii1979**
ISC Poorly determined
BER Probable explosion
BER VIII 14 16 30 23.0 67.9N 20.6E 0 2.2D ¶97viii2092
BER Probable explosion
BER VIII 14 22 10 48.9 67.3N 20.2E 0 2.3D,1.4L ¶97viii2123
BER Probable explosion
BER VIII 14 23 29 35.5 68.0N 20.3E 0 2.7D ¶97viii2129
BER Probable explosion
BER VIII 15 00 47 22.2 67.8N 20.6E 0 2.5D ¶97viii2138
BER Probable explosion
BER VIII 15 22 23 59.5 67.2N 20.4E 0 2.2D,1.3L ¶97viii2279
BER Probable explosion
BER VIII 15 23 22 45.6 67.9N 20.5E 0 3.1D ¶97viii2287
BER Probable explosion
ISC VIII 15 23 26 11±2.2 67.8N±.20 20.4E±.48 0 4 2-3
BER VIII 15 23 26 14.6 67.9N 20.4E 0 2.8D **¶97viii2289**
ISC Poorly determined
BER Probable explosion
BER VIII 15 23 33 28.1 67.9N 20.6E 0 2.4D,1.2L ¶97viii2291
BER Probable explosion
ISC VIII 16 00 37 38±2.2 67.8N±.20 20.5E±.49 0 4 2-3
BER VIII 16 00 37 42.8 67.9N 20.6E 0 2.3D,1.3L **¶97viii2296**
ISC Poorly determined
BER Probable explosion
HEL VIII 16 09 01 26 59.44N 14.81E 2.2L ¶97viii2338
BER VIII 16 20 56 20.3 67.9N 20.5E 0 2.3D,1.4L ¶97viii2418
BER Probable explosion
ISC VIII 16 23 20 21.3±.84 67.77N±.085 20.6E±.22 0 8 2-8
BER VIII 16 23 20 25.7 67.9N 20.4E 0 2.6D,1.9L **¶97viii2433**
BER Probable explosion
BER VIII 16 23 23 21.6 67.9N 20.6E 0 2.4D,1.4L ¶97viii2435
BER Probable explosion
ISC VIII 17 23 17 40±2.1 67.8N±.20 20.4E±.48 0 4 2-3
BER VIII 17 23 17 44.6 67.9N 20.4E 0 2.6D,1.8L **¶97viii2599**
ISC Poorly determined
BER Probable explosion
BER VIII 18 04 16 33.1 67.9N 20.0E 0 2.5D,1.6L ¶97viii2619
BER Probable explosion
BER VIII 19 23 39 52.7 67.8N 20.1E 0 2.2D,1.4L ¶97viii2882
BER Probable explosion
BER VIII 20 22 09 16.2 66.9N 21.5E 0 2.4D,1.4L ¶97viii3022
BER Probable explosion
BER VIII 21 23 24 53.2 67.8N 20.2E 0 2.2D,1.4L ¶97viii3160
BER Probable explosion
BER VIII 21 23 30 06.1 67.8N 20.2E 0 2.1D,1.5L ¶97viii3161
BER Probable explosion
BER VIII 22 20 58 04.2 67.8N 19.9E 0 2.1D,1.2L ¶97viii3283
BER Probable explosion
BER VIII 22 23 40 30.3 67.9N 20.1E 0 2.5D ¶97viii3307
BER Probable explosion
BER VIII 23 18 21 18.4 67.8N 20.1E 0 2.3D,1.5L ¶97viii3434
BER Probable explosion
BER VIII 24 23 45 45.9 67.6N 21.4E 0 2.3D ¶97viii3606
BER Probable explosion
BER VIII 25 00 46 35.2 67.5N 21.6E 0 2.5D ¶97viii3610
BER Probable explosion
BER VIII 26 08 37 34.5 68.1N 20.1E 12 2.5D ¶97viii3818
ISC VIII 28 06 02 35.6±.82 59.7N±.10 13.21E±.088 3 18 0-12
HEL VIII 28 06 02 38 59.59N 13.18E 3.1L **¶97viii4093**
BER VIII 28 06 02 39.0 59.7N 13.1E 3 3.3D,2.8L
UPP ML3.2, felt
HEL Md3.4
BER VIII 28 16 14 33.7 66.9N 21.6E 0 3.1D ¶97viii4161
BER Probable explosion
BER VIII 28 23 31 21.1 67.7N 20.8E 0 2.7D ¶97viii4199
BER Probable explosion
BER VIII 29 10 44 42.7 65.4N 22.7E 0 ¶97viii4279
BER Probable explosion
BER VIII 29 23 17 34.9 67.9N 20.5E 0 2.3D,1.5L ¶97viii4393
BER Probable explosion
BER VIII 30 14 43 47.4 67.6N 20.4E 0 2.1D ¶97viii4500
BER Probable explosion
ISC VIII 30 23 29 24.4±.73 67.75N±.076 20.6E±.20 0 9 2-8
BER VIII 30 23 29 29.3 67.9N 20.6E 0 2.5D,1.8L **¶97viii4552**
BER Probable explosion

BER VIII 31 00 08 16.1 67.9N 20.5E 0 2.1D,1.3L ¶97viii4555
BER Probable explosion
BER VIII 31 23 29 52.9 67.8N 20.9E 0 2.7D ¶97viii4726
BER Probable explosion
BER IX 02 00 06 45.2 67.8N 20.6E 0 1.6L ¶97ix0182
BER Probable explosion
BER IX 02 00 08 54.2 67.9N 20.6E 0 2.4D,1.8L ¶97ix0183
BER Probable explosion
UPP IX 02 08 54 34 58.8N 15.1E ¶97ix0246
UPP Rockburst at the Zinkgruvan mine
ISC IX 02 23 28 48±2.2 67.8N±.20 20.6E±.49 0 4 2-3
BER IX 02 23 28 52.4 67.9N 20.5E 0 2.0D,1.6L **¶97ix0346**
ISC Poorly determined
BER Probable explosion
BER IX 02 23 32 09.0 67.9N 20.8E 0 2.3D ¶97ix0347
BER Probable explosion
BER IX 03 23 29 49.5 67.9N 21.1E 0 2.5D,2.0L ¶97ix0511
BER Probable explosion
BER IX 04 23 19 18.2 67.8N 20.2E 0 2.1D ¶97ix0650
BER Probable explosion
BER IX 04 23 26 15.7 67.8N 20.2E 0 2.1D,1.6L ¶97ix0652
BER Probable explosion
BER IX 05 04 07 14.5 67.4N 20.3E 0 2.5D,1.9L ¶97ix0690
BER Probable explosion
BER IX 05 23 23 49.9 67.8N 20.2E 0 1.5L ¶97ix0810
BER Probable explosion
BER IX 05 23 26 26.0 67.8N 20.1E 0 1.4L ¶97ix0811
BER Probable explosion
BER IX 05 23 28 56.5 67.9N 20.1E 0 1.4L ¶97ix0812
BER Probable explosion
BER IX 05 23 30 30.6 67.9N 20.1E 0 1.5L ¶97ix0813
BER Probable explosion
BER IX 06 23 25 40.7 68.0N 20.5E 0 1.9L ¶97ix0985
BER Probable explosion
BER IX 07 23 18 53.0 67.8N 20.0E 0 2.0D ¶97ix1139
BER Probable explosion
BER IX 07 23 30 12.1 67.9N 20.0E 0 1.8L ¶97ix1141
BER Probable explosion
ISC IX 08 16 04 59±1.3 67.1N±.13 21.0E±.40 0 5 3-8
BER IX 08 16 05 02.2 67.2N 20.9E 0 **¶97ix1244**
BER Probable explosion
BER IX 08 23 18 40.8 67.8N 20.2E 0 2.1D,1.5L ¶97ix1295
BER Probable explosion
ISC IX 09 23 17 27±2.1 67.8N±.20 20.5E±.48 0 4 2-3
BER IX 09 23 17 30.6 67.9N 20.7E 0 2.4D,2.1L **¶97ix1453**
ISC Poorly determined
BER Probable explosion
BER IX 09 23 34 38.2 67.8N 20.1E 0 1.7L ¶97ix1454
BER Probable explosion
ISC IX 10 15 29 08.2±.90 67.01N±.086 21.0E±.25 0 2.8b **8 2-24**
EIDC IX 10 15 29 11.1 67.0N 21.4E 0 2.9L,2.9b **¶97ix1542**
BER IX 10 15 29 13.4 67.3N 20.6E 0 2.7D
BER Probable explosion
EIDC IX 11 07 08 03.8 64.9N 21.0E 0 2.6L ¶97ix1647
BER IX 11 23 19 03.3 67.9N 20.7E 0 2.1D,1.7L ¶97ix1744
BER Probable explosion
ISC IX 11 23 31 22±2.3 67.8N±.20 20.7E±.50 0 4 2-3
BER IX 11 23 31 26.5 67.9N 20.7E 0 2.2D,1.7L **¶97ix1745**
ISC Poorly determined
BER Probable explosion
BER IX 12 18 41 11.4 68.1N 20.5E 0 2.3D ¶97ix1859
BER Probable explosion
BER IX 13 23 23 34.8 67.9N 20.7E 0 2.0D,1.9L ¶97ix2047
BER Probable explosion
BER IX 15 23 28 20.2 67.9N 20.2E 0 2.1D,1.6L ¶97ix2294
BER Probable explosion
BER IX 16 23 40 21.4 67.9N 20.7E 0 1.9D,1.6L ¶97ix2441
BER Probable explosion
ISC IX 17 23 28 58.7±.82 67.74N±.082 20.4E±.25 0 7 2-8
BER IX 17 23 29 03.8 67.9N 20.6E 0 2.2D,1.9L **¶97ix2577**
BER Probable explosion
BER IX 17 23 31 35.7 68.0N 20.4E 0 2.3D,1.8L ¶97ix2579
BER Probable explosion
BER IX 18 15 29 59.7 66.8N 21.8E 0 2.4D ¶97ix2680
BER Probable explosion
BER IX 20 06 58 45.8 67.8N 20.1E 0 2.0D ¶97ix2912
BER Probable explosion
ISC IX 20 14 03 49.8±.92 66.99N±.082 21.0E±.30 0 6 2-8
EIDC IX 20 14 03 51.7 67.0N 21.6E 0 2.8L **¶97ix2950**
BER IX 20 14 03 55.0 67.2N 21.0E 0 2.7D
BER Probable explosion
BER IX 20 20 09 18.0 67.8N 20.1E 0 2.4D ¶97ix2998
BER Probable explosion
BER IX 20 23 29 08.4 67.9N 20.0E 0 2.1D ¶97ix3012
BER Probable explosion
BER IX 21 20 19 50.3 67.8N 20.1E 0 2.2D,1.6L ¶97ix3155
BER Probable explosion
BER IX 21 22 28 40.2 67.8N 20.2E 0 2.1D,1.7L ¶97ix3175
BER Probable explosion
ISC IX 21 23 27 39.0±.81 67.88N±.081 20.2E±.30 0 7 2-8
BER IX 21 23 27 42.6 67.9N 20.4E 0 2.5D,1.8L **¶97ix3184**
BER Probable explosion
BER IX 22 01 58 08.2 67.8N 20.2E 0 2.0D,1.7L ¶97ix3198
BER Probable explosion
BER IX 22 18 42 27.8 67.8N 20.2E 0 1.7L ¶97ix3316
BER Probable explosion
BER IX 22 23 20 23.1 67.8N 20.1E 0 2.0D,1.8L ¶97ix3337
BER Probable explosion
BER IX 22 23 22 24.8 67.8N 20.1E 0 2.1D,1.7L ¶97ix3338
BER Probable explosion
BER IX 22 23 29 45.8 67.8N 20.3E 0 1.7L ¶97ix3339
BER Probable explosion
ISC IX 23 08 00 34±3.3 57.6N±.31 11.6E±.17 0 9 3-14
BER IX 23 08 00 39.5 57.9N 11.5E 0 1.8L **¶97ix3393**
BER Probable explosion
ISC IX 23 08 14 26±4.0 57.6N±.36 11.5E±.19 0 7 3-13
BER IX 23 08 14 31.9 57.8N 11.4E 0 1.7L **¶97ix3397**
BER Probable explosion
BER IX 23 23 22 07.7 68.0N 20.4E 0 2.3D,1.7L ¶97ix3497
BER Probable explosion

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**IX 24 08 45 54**±3.2	**57.8N**±.31	**11.5E**±.14	**0**		**11**	**3-13**	
BER	IX 24 08 46 00.0	57.9N	11.4E	0	1.8L			¶97ix3551
BER	Probable explosion							
BER	**IX 24 23 18 33.9**	**67.9N**	**20.7E**	**0**	**1.7L**			¶97ix3648
BER	Probable explosion							
BER	**IX 24 23 19 45.1**	**67.9N**	**20.3E**	**0**	**1.8L**			¶97ix3650
BER	Probable explosion							
ISC	**IX 27 23 23 43.9**±.78	**67.77N**±.070	**20.5E**±.20	**0**		**8**	**2-8**	
BER	IX 27 23 23 47.9	67.9N	20.8E	0	2.5D			¶97ix4478
BER	Probable explosion							
BER	**IX 29 23 29 06.2**	**67.9N**	**20.8E**	**0**	**1.6L**			¶97ix5055
BER	Probable explosion							
BER	**IX 29 23 35 42.6**	**67.9N**	**20.7E**	**0**	**1.6L**			¶97ix5056
BER	Probable explosion							
BER	**IX 30 20 17 48.3**	**67.8N**	**20.2E**	**0**	**2.0D,1.5L**			¶97ix5304
BER	Probable explosion							
BER	**IX 30 23 18 52.6**	**67.8N**	**20.2E**	**0**	**2.3D,1.6L**			¶97ix5332
BER	Probable explosion							
ISC	**X 01 22 27 45**±1.6	**67.8N**±.10	**20.7E**±.43	**0**		**6**	**2-7**	
BER	X 01 22 27 46.8	67.9N	20.1E	0	2.5D,1.7L			¶97x0166
BER	Probable explosion							
ISC	**X 01 23 35 50**±1.0	**67.65N**±.079	**20.4E**±.32	**0**		**7**	**2-8**	
BER	X 01 23 35 53.0	67.8N	20.2E	0	2.6D,1.9L			¶97x0174
BER	Probable explosion							
BER	**X 02 04 26 06.7**	**67.9N**	**20.0E**	**0**	**2.3D,1.4L**			¶97x0204
BER	Probable explosion							
EIDC	**X 02 16 30 22.1**	**60.6N**	**15.5E**	**0**	2.8L			¶97x0312
ISC	**X 02 23 20 21.6**±.70	**67.78N**±.068	**20.6E**±.20	**0**		**9**	**2-11**	
BER	X 02 23 20 26.0	67.9N	20.7E	0	2.3D,1.8L			¶97x0355
BER	Probable explosion							
BER	**X 03 23 30 22.7**	**68.0N**	**20.5E**	**0**	**2.8D**			¶97x0547
BER	Probable explosion							
BER	**X 04 02 20 13.0**	**67.6N**	**20.5E**	**0**	**2.3D,1.4L**			¶97x0561
BER	Probable explosion							
BER	**X 04 04 21 40.1**	**67.9N**	**20.5E**	**0**	**2.3D,1.5L**			¶97x0581
BER	Probable explosion							
ISC	**X 04 23 19 19.9**±.96	**67.72N**±.090	**20.7E**±.26	**0**		**6**	**2-7**	
BER	X 04 23 19 24.0	67.9N	20.6E	0	2.6D,1.3L			¶97x0759
BER	Probable explosion							
ISC	**X 05 19 50 04.6**±.82	**67.69N**±.081	**20.5E**±.25	**0**		**7**	**2-8**	
BER	X 05 19 50 07.6	67.9N	20.3E	0	2.5D,1.6L			¶97x0922
BER	Probable explosion							
BER	**X 05 21 53 19.6**	**66.9N**	**21.4E**	**0**	**2.5D,1.7L**			¶97x0941
BER	Probable explosion							
BER	**X 05 23 23 04.2**	**67.9N**	**20.6E**	**0**	**2.2D,1.4L**			¶97x0948
BER	Probable explosion							
BER	**X 05 23 36 33.5**	**67.9N**	**20.6E**	**0**	**2.9D**			¶97x0950
BER	Probable explosion							
BER	**X 05 23 39 53.2**	**67.7N**	**20.3E**	**0**	**2.3D,1.6L**			¶97x0951
BER	Probable explosion							
ISC	**X 06 05 10 12**±1.1	**67.6N**±.11	**20.4E**±.33	**0**		**6**	**2-8**	
BER	X 06 05 10 15.9	67.8N	20.1E	0	2.4D,1.7L			¶97x0995
BER	Probable explosion							
BER	**X 06 12 28 04.8**	**67.7N**	**20.3E**	**0**	**2.6D,1.8L**			¶97x1046
BER	Probable explosion							
BER	**X 06 23 14 32.1**	**68.0N**	**20.5E**	**0**	**2.5D,1.6L**			¶97x1130
BER	Probable explosion							
ISC	**X 07 07 20 44**±1.5	**67.8N**±.13	**20.4E**±.47	**0**		**5**	**2-8**	
BER	X 07 07 20 46.2	68.0N	20.1E	0	2.3D			¶97x1199
BER	Probable explosion							
ISC	**X 07 14 55 20**±3.5	**67.8N**±.13	**21.2E**±.99	**0**		**5**	**1-7**	
BER	X 07 14 55 22.0	67.9N	20.6E	0	2.2D			¶97x1268
ISC	Poorly determined							
BER	Probable explosion							
ISC	**X 07 16 37 20.3**±.81	**67.8N**±.10	**20.3E**±.22	**0**		**8**	**2-10**	
BER	X 07 16 37 24.0	68.0N	20.2E	0	2.5D			¶97x1278
BER	Probable explosion							
BER	**X 07 22 14 52.7**	**67.9N**	**20.6E**	**0**	**2.4D,1.5L**			¶97x1309
BER	Probable explosion							
BER	**X 07 23 31 22.5**	**67.9N**	**20.5E**	**0**	**2.5D**			¶97x1321
BER	Probable explosion							
BER	**X 08 00 45 18.5**	**67.8N**	**20.1E**	**0**	**2.2D,1.4L**			¶97x1330
BER	Probable explosion							
ISC	**X 08 06 37 54.5**±.90	**67.75N**±.081	**20.6E**±.31	**0**		**8**	**2-11**	
BER	X 08 06 37 57.9	67.9N	20.2E	0	2.3D,1.7L			¶97x1359
BER	Probable explosion							
ISC	**X 08 08 25 05**±3.0	**59.7N**±.37	**18.1E**±.25	**0**		**4**	**2-10**	
EIDC	X 08 08 25 06.7	59.8N	18.1E	0	2.5L			¶97x1374
ISC	Poorly determined							
ISC	**X 08 21 00 20.3**±.78	**67.87N**±.076	**20.5E**±.25	**0**		**8**	**2-8**	
BER	X 08 21 00 24.5	67.9N	20.7E	0	2.6D,1.8L			¶97x1474
BER	Probable explosion							
ISC	**X 09 22 12 14**±1.1	**67.2N**±.10	**21.0E**±.30	**0**		**5**	**2-6**	
BER	X 09 22 12 18.2	67.2N	21.2E	0	2.0D,1.4L			¶97x1650
BER	Probable explosion							
BER	**X 09 23 29 47.6**	**67.7N**	**20.2E**	**0**	**2.5D,1.8L**			¶97x1657
BER	Probable explosion							
ISC	**X 10 08 30 11**±2.9	**59.8N**±.37	**18.1E**±.25	**0**		**4**	**2-10**	
EIDC	X 10 08 30 10.4	59.5N	18.1E	0	2.7L			¶97x1723
ISC	Poorly determined							
ISC	**X 11 22 36 24.1**±.62	**67.76N**±.060	**20.5E**±.20	**0**		**12**	**2-8**	
EIDC	X 11 22 36 26.4	67.8N	20.6E	0	2.7L			¶97x1950
BER	X 11 22 36 28.5	67.9N	20.6E	0	2.6D,1.9L			
BER	Probable explosion							
BER	**X 11 23 28 52.5**	**68.0N**	**20.5E**	**0**	**2.5D**			¶97x1955
BER	Probable explosion							
BER	**X 12 23 30 11.1**	**67.9N**	**20.5E**	**0**	**2.7D**			¶97x2123
BER	Probable explosion							
ISC	**X 13 11 55 04**±3.3	**59.6N**±.39	**18.1E**±.25	**0**		**4**	**2-10**	
EIDC	X 13 11 55 03.9	59.4N	18.0E	0	2.7L			¶97x2212
ISC	Poorly determined							
EIDC	**X 13 13 40 44.5**	**65.0N**	**20.8E**	**0**	**2.7L**			¶97x2233
BER	**X 13 23 16 29.6**	**67.9N**	**20.6E**	**0**	**2.5D,1.6L**			¶97x2302
BER	Probable explosion							
BER	**X 13 23 18 52.1**	**68.0N**	**20.6E**	**0**	**1.8L**			¶97x2303
BER	Probable explosion							
BER	**X 14 23 19 41.4**	**67.9N**	**20.8E**	**0**	**2.4D,1.7L**			¶97x2510
BER	Probable explosion							
BER	**X 14 23 25 55.6**	**67.9N**	**20.7E**	**0**	**2.4D,1.7L**			¶97x2513
BER	Probable explosion							
BER	**X 15 23 35 51.5**	**67.8N**	**20.8E**	**0**	**2.4D,1.7L**			¶97x2744
BER	Probable explosion							
ISC	**X 15 23 40 49.4**±.66	**67.74N**±.065	**20.5E**±.19	**0**		**11**	**2-11**	
BER	X 15 23 40 52.9	67.9N	20.3E	0	2.6D,2.0L			¶97x2745
BER	Probable explosion							
BER	**X 15 23 43 57.0**	**67.9N**	**20.7E**	**0**	**2.2D**			¶97x2746
BER	Probable explosion							
BER	**X 15 23 49 06.0**	**67.8N**	**20.9E**	**0**	**2.7D,1.9L**			¶97x2748
BER	Probable explosion							
EIDC	**X 16 10 31 00.1**	**59.3N**	**18.1E**	**0**	**2.7L**			¶97x2823
BER	**X 16 11 35 51.9**	**67.7N**	**20.3E**	**0**	**2.4D,1.8L**			¶97x2831
BER	Probable explosion							
ISC	**X 16 15 29 18.4**±.59	**66.97N**±.056	**21.0E**±.17	**0**		**12**	**2-8**	
EIDC	X 16 15 29 20.4	67.1N	21.5E	0	2.7L			¶97x2853
BER	X 16 15 29 22.6	67.0N	20.9E	0	2.9D,1.8L			
BER	Probable explosion							
BER	**X 16 23 18 32.2**	**67.5N**	**22.1E**	**0**	**2.3D**			¶97x2896
BER	Probable explosion							
BER	**X 16 23 29 28.1**	**67.8N**	**20.8E**	**0**	**2.5D,1.6L**			¶97x2899
BER	Probable explosion							
EIDC	**X 17 08 09 04.9**	**59.4N**	**18.1E**	**0**	**2.6L**			¶97x2945
ISC	**X 17 09 49 20**±3.2	**59.7N**±.39	**18.1E**±.25	**0**		**4**	**2-10**	
EIDC	X 17 09 49 19.6	59.4N	18.1E	0	2.5L			¶97x2956
ISC	Poorly determined							
BER	**X 17 23 18 16.4**	**67.6N**	**20.5E**	**0**	**2.2D,1.6L**			¶97x3070
BER	Probable explosion							
BER	**X 17 23 29 07.0**	**67.3N**	**22.0E**	**0**	**2.4D,1.8L**			¶97x3072
BER	Probable explosion							
BER	**X 18 18 45 01.9**	**67.7N**	**20.4E**	**0**	**2.4D,1.5L**			¶97x3214
BER	Probable explosion							
BER	**X 18 23 18 52.1**	**67.7N**	**20.3E**	**0**	**2.6D,1.8L**			¶97x3251
BER	Probable explosion							
ISC	**X 19 09 06 24.4**±.75	**67.75N**±.076	**20.8E**±.24	**0**		**8**	**2-8**	
BER	X 19 09 06 28.2	67.9N	20.8E	0	2.5D,1.7L			¶97x3322
BER	Probable explosion							
ISC	**X 19 19 50 56.7**±.52	**65.35N**±.044	**22.3E**±.16	**15**		**18**	**2-13**	
EIDC	X 19 19 50 56.1	65.3N	22.2E	0	3.5L			¶97x3387
UPP	X 19 19 50 58	65.3N	22.5E		3.4L			
HEL	X 19 19 50 58	65.37N	22.42E		3.2L			
BER	X 19 19 50 59.7	65.3N	22.4E	15	3.4D,3.2L			
UPP	Felt							
HEL	Md3.4							
BER	**X 19 23 16 58.7**	**67.9N**	**20.7E**	**0**	**2.4D,1.8L**			¶97x3404
BER	Probable explosion							
EIDC	**X 20 13 38 44.7**	**59.0N**	**18.1E**	**0**	**2.8L**			¶97x3506
EIDC	**X 21 08 23 32.7**	**59.4N**	**18.1E**	**0**	**2.6L**			¶97x3625
EIDC	**X 21 09 41 01.9**	**59.4N**	**18.2E**	**0**	**2.8L**			¶97x3632
EIDC	**X 21 11 21 00.2**	**59.3N**	**18.1E**	**0**	**2.5L**			¶97x3649
BER	**X 21 23 33 26.1**	**67.9N**	**20.6E**	**0**	**2.4D,1.8L**			¶97x3717
BER	Probable explosion							
BER	**X 21 23 36 23.0**	**67.7N**	**20.4E**	**0**	**2.2D,1.6L**			¶97x3718
BER	Probable explosion							
EIDC	**X 22 12 46 01.5**	**59.4N**	**18.1E**	**0**	**2.6L**			¶97x3814
ISC	**X 22 13 36 02**±3.1	**59.7N**±.38	**18.1E**±.25	**0**		**4**	**2-10**	
EIDC	X 22 13 36 01.9	59.5N	18.1E	0	2.6L			¶97x3824
ISC	Poorly determined							
ISC	**X 23 07 32 23**±2.9	**59.8N**±.36	**18.0E**±.25	**0**		**4**	**2-10**	
EIDC	X 23 07 32 22.3	59.5N	18.1E	0	2.4L			¶97x3943
ISC	Poorly determined							
ISC	**X 23 09 01 32**±3.1	**59.7N**±.38	**18.1E**±.25	**0**		**4**	**2-10**	
EIDC	X 23 09 01 32.1	59.4N	18.1E	0	2.5L			¶97x3955
ISC	Poorly determined							
ISC	**X 23 15 33 03.8**±.69	**66.98N**±.065	**20.8E**±.22	**0**		**13**	**2-11**	
EIDC	X 23 15 33 07.0	67.2N	21.8E	0	2.7L			¶97x4020
BER	X 23 15 33 08.6	67.0N	20.7E	0	2.8D			
BER	Probable explosion							
BER	**X 23 23 29 41.2**	**67.7N**	**20.3E**	**0**	**2.8D,1.8L**			¶97x4084
BER	Probable explosion							
BER	**X 24 23 25 07.9**	**67.6N**	**20.4E**	**0**	**2.2D,1.7L**			¶97x4234
BER	Probable explosion							
BER	**X 25 14 07 29.3**	**67.7N**	**20.3E**	**0**	**2.2D,1.5L**			¶97x4332
BER	Probable explosion							
BER	**X 26 00 12 04.0**	**67.9N**	**20.8E**	**0**	**2.6D**			¶97x4388
BER	Probable explosion							
BER	**X 26 00 15 05.0**	**67.9N**	**20.6E**	**0**	**2.1D,1.7L**			¶97x4389
BER	Probable explosion							
ISC	**X 26 00 16 47.3**±.71	**67.77N**±.069	**20.5E**±.23	**0**		**9**	**2-11**	
BER	X 26 00 16 51.8	67.9N	20.7E	0	2.6D,2.0L			¶97x4390
BER	Probable explosion							
BER	**X 27 00 21 39.9**	**67.6N**	**20.4E**	**0**	**2.3D,1.8L**			¶97x4541
BER	Probable explosion							
ISC	**X 27 11 02 30**±2.1	**58.7N**±.21	**13.0E**±.17	**13**		**14**	**1-12**	
BER	X 27 11 02 31.9	58.5N	13.2E	13	2.9D,2.5L			¶97x4602
EIDC	X 27 11 02 33.4	58.9N	13.4E	0	3.0L			
ISC	**X 28 00 29 50**±1.9	**67.7N**±.21	**20.7E**±.51	**0**		**4**	**2-3**	
BER	X 28 00 29 55.0	67.9N	20.7E	0	2.4D			¶97x4676
ISC	Poorly determined							
BER	Probable explosion							
BER	**X 29 00 29 59.4**	**67.7N**	**20.3E**	**0**	**2.4D**			¶97x4836
BER	Probable explosion							
ISC	**X 31 22 56 10.8**±.61	**67.08N**±.059	**20.7E**±.20	**0**		**13**	**2-11**	
EIDC	X 31 22 56 12.7	67.1N	20.9E	0	3.2L			¶97x5236
BER	X 31 22 56 16.3	67.1N	20.9E	0	2.7D,2.4L			
BER	Probable explosion							
ISC	**XI 01 00 33 06**±1.2	**67.8N**±.14	**20.5E**±.29	**0**		**5**	**2-5**	
BER	XI 01 00 33 10.9	67.9N	20.7E	0	2.7D			¶97xi0003
BER	Probable explosion							
ISC	**XI 02 00 21 24.7**±.75	**67.71N**±.075	**20.4E**±.24	**0**		**9**	**2-11**	
BER	XI 02 00 21 29.0	67.9N	20.5E	0	2.0L			¶97xi0165
BER	Probable explosion							
BER	**XI 03 00 31 22.0**	**67.9N**	**20.9E**	**0**	**1.9L**			¶97xi0361
BER	Probable explosion							
BER	**XI 04 00 24 03.7**	**67.9N**	**20.6E**	**0**	**1.9D,1.8L**			¶97xi0541
BER	Probable explosion							
BER	**XI 04 00 32 25.9**	**67.8N**	**20.1E**	**0**	**1.8L**			¶97xi0544
BER	Probable explosion							
ISC	**XI 07 00 16 17.4**±.69	**67.68N**±.071	**20.5E**±.20	**0**		**10**	**2-11**	
BER	XI 07 00 16 22.3	67.9N	20.5E	0	2.4D,2.0L			¶97xi1053
BER	Probable explosion							

BER XI 08 00 20 56.5 67.9N 20.6E 0 1.9L ¶97xi1191
BER Probable explosion
BER XI 09 00 22 05.3 67.9N 20.7E 0 2.0D,1.9L ¶97xi1368
BER Probable explosion
BER XI 09 00 29 17.2 67.9N 20.6E 0 2.1D,1.6L ¶97xi1371
BER Probable explosion
BER XI 09 01 58 09.5 66.4N 19.5E 0 2.7D,1.8L ¶97xi1382
HEL XI 09 01 58 13 66.74N 18.88E 1.8L
BER XI 09 05 12 22.7 67.9N 20.1E 0 2.4D,2.2L ¶97xi1402
BER Probable explosion
BER XI 09 05 32 33.6 66.2N 22.6E 0 2.2L ¶97xi1406
BER Probable explosion
BER XI 09 07 22 51.5 67.8N 20.1E 0 2.0D,1.5L ¶97xi1417
BER Probable explosion
BER XI 10 00 21 57.2 67.8N 20.2E 0 1.9L ¶97xi1530
BER Probable explosion
ISC XI 10 07 42 04±1.5 **67.8N**±.15 **19.8E**±.58 **0 7 2-8**
BER XI 10 07 42 08.1 67.9N 20.0E 0 2.2D,2.0L **¶97xi1577**
BER Probable explosion
BER XI 10 16 38 45.1 67.3N 20.8E 0 2.4D ¶97xi1641
EIDC XI 10 16 38 40.5 67.1N 21.0E 0 2.7L
BER Probable explosion
BER XI 10 19 00 45.2 67.8N 20.2E 0 2.0D ¶97xi1659
BER Probable explosion
BER XI 11 00 32 06.1 67.8N 20.1E 0 2.0D,1.7L ¶97xi1696
BER Probable explosion
BER XI 11 00 34 36.6 67.9N 20.0E 0 1.6L ¶97xi1697
BER Probable explosion
HEL XI 11 11 09 02 63.81N 18.35E 1.5L ¶97xi1774
BER XI 11 15 42 27.6 67.8N 20.2E 0 2.1L ¶97xi1818
BER Probable explosion
BER XI 11 19 17 50.4 67.9N 20.0E 0 1.9D ¶97xi1856
BER Probable explosion
BER XI 11 21 57 26.2 67.8N 20.0E 0 2.0D,1.6L ¶97xi1882
BER Probable explosion
BER XI 12 00 47 22.4 67.8N 20.1E 0 1.8L ¶97xi1910
BER Probable explosion
ISC XI 12 11 40 56±1.0 **64.93N**±.094 **20.7E**±.34 **0 5 4-6**
BER XI 12 11 41 00.3 64.9N 20.9E 0 2.1L **¶97xi1976**
BER Probable explosion
BER XI 12 19 57 06.3 67.5N 21.5E 0 1.3L ¶97xi2029
BER Probable explosion
BER XI 12 19 58 23.4 67.8N 20.1E 0 1.6L ¶97xi2030
BER Probable explosion
BER XI 13 10 08 19.5 67.9N 20.2E 0 2.0D,1.2L ¶97xi2117
BER Probable explosion
ISC XI 13 16 34 56.1±.61 **67.06N**±.063 **21.0E**±.17 **0 14 2-11**
BER XI 13 16 34 59.2 67.2N 21.0E 0 **¶97xi2168**
EIDC XI 13 16 35 00.1 67.2N 21.8E 0 2.7L
BER Probable explosion
BER XI 14 00 18 29.1 67.9N 20.1E 0 1.4L ¶97xi2208
BER Probable explosion
BER XI 14 00 29 07.9 67.8N 20.1E 0 2.5D,1.5L ¶97xi2211
BER Probable explosion
BER XI 15 00 20 01.8 67.9N 20.8E 0 1.8L ¶97xi2389
BER Probable explosion
BER XI 15 00 29 26.0 67.8N 20.2E 0 2.1D ¶97xi2390
BER Probable explosion
BER XI 16 18 22 41.5 67.9N 20.1E 0 1.7L ¶97xi2681
BER Probable explosion
BER XI 17 00 22 04.5 67.9N 20.1E 0 2.0D,1.8L ¶97xi2713
BER Probable explosion
BER XI 17 00 28 40.9 67.8N 20.1E 0 1.7L ¶97xi2714
BER Probable explosion
EIDC XI 17 08 32 56.9 66.9N 21.4E 0 2.7L ¶97xi2767
BER XI 18 00 14 28.5 67.9N 20.7E 0 2.3D ¶97xi2880
BER Probable explosion
BER XI 18 00 29 15.4 67.8N 20.3E 0 1.6L ¶97xi2881
BER Probable explosion
EIDC XI 18 14 25 02.1 59.2N 18.0E 0 2.5L ¶97xi2986
BER XI 18 23 04 46.3 66.9N 21.5E 0 1.6L ¶97xi3081
BER Probable explosion
BER XI 19 00 28 46.8 67.9N 20.3E 0 2.5D ¶97xi3092
BER Probable explosion
EIDC XI 19 12 04 01.1 59.3N 18.2E 0 2.6L ¶97xi3210
BER XI 20 00 25 08.7 67.9N 20.7E 0 2.4D,1.7L ¶97xi3348
BER Probable explosion
BER XI 20 21 15 13.9 68.5N 20.7E 0 2.1D,1.1L ¶97xi3533
BER Probable explosion
ISC XI 21 00 18 20.0±.79 **67.79N**±.080 **20.4E**±.25 **0 8 2-11**
BER XI 21 00 18 23.8 68.0N 20.2E 0 2.2D,2.0L **¶97xi3555**
BER Probable explosion
ISC XI 21 00 29 26±1.2 **67.8N**±.11 **20.1E**±.40 **0 6 2-10**
BER XI 21 00 29 28.9 67.9N 20.1E 0 2.4D,1.9L **¶97xi3556**
ISC Poorly determined
BER Probable explosion
BER XI 21 00 31 33.7 67.9N 20.1E 0 2.0D ¶97xi3557
BER Probable explosion
BER XI 21 09 27 10.2 67.8N 20.1E 0 2.2D,1.6L ¶97xi3630
BER Probable explosion
EIDC XI 21 10 56 08.4 59.5N 18.1E 0 2.4L ¶97xi3637
BER XI 21 23 12 21.6 66.9N 21.6E 0 2.4D,1.7L ¶97xi3756
BER Probable explosion
BER XI 22 00 29 01.7 67.9N 20.1E 0 1.6L ¶97xi3765
BER Probable explosion
BER XI 22 08 56 59.4 67.8N 20.1E 0 2.1D,1.5L ¶97xi3842
BER Probable explosion
BER XI 22 14 26 20.6 67.8N 20.2E 0 1.5L ¶97xi3893
BER Probable explosion
BER XI 22 21 54 43.0 67.8N 20.1E 0 1.5L ¶97xi3968
BER Probable explosion
ISC XI 23 00 29 44.4±.89 **67.7N**±.12 **20.3E**±.25 **0 6 2-8**
BER XI 23 00 29 48.5 67.9N 20.2E 0 1.2L **¶97xi3990**
BER Probable explosion
BER XI 23 01 07 49.1 67.8N 20.0E 0 1.6L ¶97xi3995
BER Probable explosion
BER XI 23 09 22 05.4 67.8N 20.2E 0 1.5L ¶97xi4084
BER Probable explosion
BER XI 23 19 18 48.5 67.9N 20.1E 0 2.0D,1.6L ¶97xi4180
BER Probable explosion
BER XI 24 00 37 58.0 67.9N 20.0E 0 1.5L ¶97xi4233
BER Probable explosion
BER XI 25 00 22 26.6 67.9N 21.0E 0 ¶97xi4415
BER Probable explosion
EIDC XI 25 10 00 32.6 57.9N 11.1E 0 3.0L ¶97xi4485
BER XI 25 10 00 37.6 57.9N 9.5E 12 2.5D,2.0L
BER XI 25 16 30 32.3 66.7N 21.4E 0 2.7D,1.7L ¶97xi4548
BER Probable explosion
BER XI 26 00 18 07.7 68.0N 20.2E 0 1.8L ¶97xi4603
BER Probable explosion
BER XI 26 15 54 14.9 67.9N 20.0E 0 1.8L ¶97xi4716
BER Probable explosion
BER XI 26 17 49 13.9 67.9N 20.1E 0 1.8L ¶97xi4725
BER Probable explosion
BER XI 27 00 18 27.0 67.9N 20.1E 0 1.6L ¶97xi4765
BER Probable explosion
BER XI 27 00 29 36.1 67.9N 20.3E 0 1.8L ¶97xi4768
BER Probable explosion
BER XI 28 00 17 19.6 67.5N 20.8E 0 2.0D,1.6L ¶97xi4968
BER Probable explosion
BER XI 28 00 19 05.9 67.9N 20.1E 0 1.7L ¶97xi4969
BER Probable explosion
BER XI 28 00 30 29.6 67.8N 20.2E 0 2.0L ¶97xi4971
BER Probable explosion
BER XI 29 00 25 50.6 67.8N 20.3E 0 1.6L ¶97xi5164
BER Probable explosion
ISC XII 01 00 32 39.8±.93 **67.7N**±.11 **20.4E**±.30 **0 7 2-8**
BER XII 01 00 32 42.6 68.0N 20.1E 0 2.3D,1.7L **¶97xii0003**
BER Probable explosion
BER XII 01 09 30 17.0 67.4N 21.0E 0 2.0D,1.5L ¶97xii0060
BER Probable explosion
BER XII 02 16 53 50.2 68.0N 20.5E 0 2.1D,1.7L ¶97xii0284
BER Probable explosion
BER XII 03 00 21 58.0 67.9N 20.1E 0 1.8L ¶97xii0335
BER Probable explosion
BER XII 03 00 29 25.8 67.9N 20.2E 0 1.8L ¶97xii0338
BER Probable explosion
BER XII 04 00 30 01.2 67.8N 20.1E 0 1.8L ¶97xii0524
BER Probable explosion
ISC XII 04 03 10 45±1.9 **64.79N**±.049 **19.7E**±.13 **13**±16 **21 1-13**
EIDC XII 04 03 10 45.0±2.09 64.7N 20.2E 0 3.0L **¶97xii0546**
HEL XII 04 03 10 46 64.77N 19.67E 2.9L
BER XII 04 03 10 46.3 64.8N 19.8E 2 2.7L
UPP Felt at Vasterbotten Sweden
EIDC Error ellipse is semi-major=20.2km semi-minor=16.5km azimuth=109
HEL MD3.2
BER XII 05 00 22 35.7 67.9N 20.0E 0 2.0L ¶97xii0733
BER Probable explosion
BER XII 05 00 29 29.9 67.6N 21.2E 0 ¶97xii0737
BER Probable explosion
BER XII 05 00 29 59.8 67.9N 19.8E 0 1.9L ¶97xii0739
BER Probable explosion
ISC XII 06 00 25 24.0±.93 **67.76N**±.076 **20.6E**±.29 **0 8 2-11**
BER XII 06 00 25 28.8 67.9N 20.6E 0 1.8L **¶97xii1174**
BER Probable explosion
EIDC XII 06 08 11 52.6±2.42 **65.0N 20.9E 0 2.6L 4-6**
EIDC Error ellipse is semi-major=34.9km semi-minor=21.1km azimuth=76 **¶97xii1304**
BER XII 07 00 28 56.7 67.7N 20.5E 0 2.4D,2.0L ¶97xii1566
BER Probable explosion
ISC XII 07 00 33 59±2.0 **67.9N**±.19 **20.4E**±.46 **0 4 2-3**
BER XII 07 00 34 01.6 67.9N 20.1E 0 2.3D,1.8L **¶97xii1567**
ISC Poorly determined
BER Probable explosion
BER XII 09 00 19 51.0 67.9N 20.2E 0 1.9D,1.7L ¶97xii2048
BER Probable explosion
BER XII 09 00 22 00.0 67.9N 20.2E 0 2.2D,1.8L ¶97xii2050
BER Probable explosion
BER XII 09 00 51 46.0 67.9N 20.0E 0 1.8D ¶97xii2060
BER Probable explosion
ISC XII 10 16 30 35.9±.58 **66.99N**±.055 **21.0E**±.17 **0 13 2-11**
EIDC XII 10 16 30 38.0±2.02 67.0N 21.3E 0 2.9L **¶97xii2390**
BER XII 10 16 30 40.8 67.2N 20.7E 0 2.7D,1.8L
EIDC Error ellipse is semi-major=29.1km semi-minor=17.2km azimuth=105
BER Probable explosion
BER XII 10 23 00 18.6 67.2N 20.5E 0 2.0D,1.7L ¶97xii2441
BER Probable explosion
BER XII 11 00 18 49.9 67.9N 20.1E 0 2.0D ¶97xii2448
BER Probable explosion
BER XII 11 00 35 42.0 67.9N 20.1E 0 2.2D,1.7L ¶97xii2454
BER Probable explosion
BER XII 12 00 17 43.8 67.8N 20.1E 0 2.3D,2.0L ¶97xii2666
BER Probable explosion
BER XII 12 00 22 06.4 67.8N 20.1E 0 1.9D,1.7L ¶97xii2667
BER Probable explosion
ISC XII 12 12 30 21±1.4 **63.8N**±.14 **16.7E**±.37 **0 4 4-7**
EIDC XII 12 12 30 22.8±2.20 63.8N 16.7E 0 2.5L **¶97xii2749**
ISC Poorly determined
EIDC Error ellipse is semi-major=37.9km semi-minor=17.1km azimuth=135
ISC XII 12 16 30 04.9±.58 **66.99N**±.055 **21.0E**±.17 **0 13 2-11**
EIDC XII 12 16 30 07.7±2.07 67.0N 21.3E 0 2.8L **¶97xii2783**
BER XII 12 16 30 08.2 67.1N 21.0E 0 2.9D
EIDC Error ellipse is semi-major=44.6km semi-minor=14.5km azimuth=117
BER Probable explosion
BER XII 13 00 23 28.3 67.9N 20.1E 0 1.7L ¶97xii2847
BER Probable explosion
ISC XII 13 00 29 31.2±.92 **67.76N**±.097 **20.3E**±.32 **0 8 2-8**
BER XII 13 00 29 34.5 67.9N 20.1E 0 1.8L **¶97xii2848**
BER Probable explosion
BER XII 14 00 19 47.5 67.9N 20.9E 0 ¶97xii3043
BER Probable explosion
BER XII 14 00 22 29.7 67.6N 21.6E 0 1.2L ¶97xii3045
BER Probable explosion
BER XII 15 00 25 24.2 67.9N 20.1E 0 2.0D,1.8L ¶97xii3213
BER Probable explosion
ISC XII 17 00 18 11±1.1 **67.8N**±.12 **20.2E**±.47 **0 6 2-8**
BER XII 17 00 18 15.9 67.9N 19.9E 0 2.2L **¶97xii3527**
BER Probable explosion
BER XII 17 00 28 50.6 67.9N 20.3E 0 1.8L ¶97xii3528
BER Probable explosion
ISC XII 17 16 30 18.1±.66 **67.01N**±.070 **20.9E**±.21 **0 12 2-8**
EIDC XII 17 16 30 19.6±2.00 67.2N 20.9E 0 2.8L **¶97xii3631**
BER XII 17 16 30 21.2 67.1N 20.8E 0 1.8L

Agency		Origin Time		φ	λ	h	Mag	*n*	Δ-Rng
		mo d h m s		°	°	km			°
EIDC		Error ellipse is semi-major=26.7km semi-minor=15.1km azimuth=110							
BER		Probable explosion							
ISC	**XII**	**18 00 19 38.9**±.79	**67.82N**±.083	**20.4E**±.20	**0**			**9**	**2-8**
BER	XII	18 00 19 42.4	67.8N	20.7E	0	2.1L			¶97xii3683
BER		Probable explosion							
ISC	**XII**	**19 00 30 11**±1.4	**67.9N**±.15	**20.2E**±.50	**0**			**5**	**2-8**
BER	XII	19 00 30 15.7	68.0N	20.5E	0				¶97xii3861
ISC		Poorly determined							
BER		Probable explosion							
BER	**XII**	**20 00 40 48.9**	**67.8N**	**20.1E**	**0**	**2.0D,1.8L**			¶97xii4058
BER		Probable explosion							
BER	**XII**	**20 13 42 06.3**	**67.8N**	**20.1E**	**0**	**2.2D,1.9L**			¶97xii4127
BER		Probable explosion							
ISC	**XII**	**21 00 17 04.3**±.74	**67.76N**±.072	**20.4E**±.22	**0**			**9**	**2-8**
BER	XII	21 00 17 07.8	68.0N	20.2E	0	1.9L			¶97xii4185
BER		Probable explosion							
ISC	**XII**	**22 00 23 17**±1.0	**67.74N**±.085	**20.2E**±.32	**0**			**8**	**2-8**
BER	XII	22 00 23 21.0	67.9N	20.1E	0	1.8L			¶97xii4326
BER		Probable explosion							
ISC	**XII**	**23 00 37 18.5**±.59	**67.77N**±.059	**20.3E**±.18	**0**			**12**	**2-8**
EIDC	XII	23 00 37 20.8±2.30	67.8N	20.5E	0	2.8L			¶97xii4509
BER	XII	23 00 37 22.2	68.0N	20.2E	0	2.8D,2.0L			
EIDC		Error ellipse is semi-major=22.5km semi-minor=17.4km azimuth=85							
BER		Probable explosion							
BER	**XII**	**23 07 20 05.9**	**67.4N**	**21.1E**	**0**	**1.8D,2.0L**			¶97xii4561
BER		Probable explosion							
BER	**XII**	**23 08 12 15.4**	**67.5N**	**22.0E**	**0**	**1.4L**			¶97xii4566
BER		Probable explosion							
BER	**XII**	**24 00 36 10.7**	**67.9N**	**20.2E**	**0**	**2.2D,1.7L**			¶97xii4678
BER		Probable explosion							
BER	**XII**	**25 00 30 53.5**	**67.9N**	**20.0E**	**0**	**1.9L**			¶97xii4844
BER		Probable explosion							
BER	**XII**	**26 00 24 15.3**	**67.9N**	**19.7E**	**0**	**2.3D,1.6L**			¶97xii5013
BER		Probable explosion							
BER	**XII**	**26 00 29 28.8**	**67.7N**	**20.3E**	**0**	**2.1D,1.7L**			¶97xii5015
BER		Probable explosion							
ISC	**XII**	**27 00 28 51.3**±.97	**67.81N**±.090	**20.5E**±.27	**0**			**7**	**2-7**
BER	XII	27 00 28 55.5	67.9N	20.9E	0	1.6L			¶97xii5213
BER		Probable explosion							
EIDC	**XII**	**27 04 40 35.1**±2.27	**67.1N**	**21.3E**	**0**	**2.7L**			**2-8**
EIDC		Error ellipse is semi-major=19.8km semi-minor=16.4km azimuth=91							¶97xii5249
BER	**XII**	**27 23 40 01.2**	**67.8N**	**20.2E**	**0**	**1.7L**			¶97xii5362
BER		Probable explosion							
ISC	**XII**	**28 00 22 30**±2.1	**67.8N**±.20	**20.4E**±.48	**0**			**4**	**2-3**
BER	XII	28 00 22 33.9	68.0N	20.1E	0	1.5L			¶97xii5365
ISC		Poorly determined							
BER		Probable explosion							
ISC	**XII**	**28 12 03 15.6**±.58	**65.34N**±.046	**22.5E**±.16	**0**			**17**	**2-7**
EIDC	XII	28 12 03 16.5±1.64	65.3N	22.7E	0	2.9L			¶97xii5449
HEL	XII	28 12 03 18	65.38N	22.60E		2.4L			
BER	XII	28 12 03 18.4	65.3N	22.7E	0	2.2L			
EIDC		Error ellipse is semi-major=17.3km semi-minor=13.2km azimuth=114							
BER		Probable explosion							
BER	**XII**	**28 19 13 19.6**	**67.9N**	**20.0E**	**0**	**2.0D,1.5L**			¶97xii5483
BER		Probable explosion							
BER	**XII**	**29 00 29 49.4**	**67.8N**	**20.2E**	**0**	**1.4L**			¶97xii5519
BER		Probable explosion							
BER	**XII**	**31 00 16 29.9**	**67.8N**	**20.2E**	**0**	**1.7L**			¶97xii5803
BER		Probable explosion							
BER	**XII**	**31 00 29 18.4**	**67.6N**	**19.8E**	**0**				¶97xii5807
BER		Probable explosion							
BER	**XII**	**31 00 29 31.2**	**67.9N**	**20.0E**	**0**	**1.9L**			¶97xii5808
BER		Probable explosion							
EIDC	**XII**	**31 00 35 29.7**±2.59	**60.4N**	**17.6E**	**0**	2.0L			**1-4**
									¶97xii5809
EIDC		Error ellipse is semi-major=40.4km semi-minor=16.0km azimuth=177							
ISC	**XII**	**31 03 02 27.0**±.75	**67.10N**±.074	**20.8E**±.25	**0**			**10**	**2-8**
EIDC	XII	31 03 02 28.5±1.90	67.1N	20.8E	0	2.7L			¶97xii5827
BER	XII	31 03 02 31.4	67.2N	21.3E	0	1.6L			
EIDC		Error ellipse is semi-major=31.6km semi-minor=13.1km azimuth=118							
BER		Probable explosion							

(537) Baltic Sea.

ISC	**VII**	**26 12 10 12**±1.5	**55.7N**±.11	**20.6E**±.25	**0**			**6**	**6-8**
BER	VII	26 12 10 14.3	55.4N	20.7E	0				¶97vii3962
EIDC	VII	26 12 10 15.0	55.8N	20.5E	0	3.2L			
BER		Probable explosion							
EIDC	**IX**	**05 11 12 21.7**	**55.1N**	**19.5E**	**0**	**3.5L**			**¶97ix0740**
ISC	**X**	**17 12 36 02**±3.4	**55.3N**±.27	**19.2E**±.34	**0**			**5**	**2-15**
EIDC	X	17 12 35 56.2	54.7N	19.2E	0	3.7L			¶97x2986
ISC	**XI**	**18 09 04 29**±1.2	**55.15N**±.098	**19.3E**±.22	**0**			**9**	**6-15**
EIDC	XI	18 09 04 31.1	55.1N	19.5E	0	3.8L			¶97xi2934
BER	XI	18 09 04 32.8	55.0N	19.4E	0				
BER		Probable explosion							
ISC	**XII**	**23 13 38 08.9**±.91	**55.11N**±.068	**19.9E**±.21	**0**			**12**	**6-15**
EIDC	XII	23 13 38 11.7±2.17	55.0N	19.7E	0	3.5L			¶97xii4609
EIDC		Error ellipse is semi-major=27.5km semi-minor=16.5km azimuth=90							
EIDC	**XII**	**23 14 38 03.9**±5.26	**55.0N**	**19.7E**	**0**	**3.2L**			**6-15**
									¶97xii4618
EIDC		Error ellipse is semi-major=45.7km semi-minor=33.4km azimuth=178							

(538) France.

LDG	**VII**	**01 13 56 59.9**	**45.2N**	**6.5E**		**2.1L**			¶97vii0101
ISC	**VII**	**03 04 34 50.1**±.40	**45.56N**±.034	**6.02E**±.049	**10**			**27**	**0-4**
NEIC	VII	03 04 34 50.7	45.59N	6.07E	10				¶97vii0357
ROM	VII	03 04 34 50.9	45.6N	6.2E	5	2.4D			
LDG	VII	03 04 34 51.0	45.6N	6.1E		2.5L			
ISC	**VII**	**03 21 31 10.3**±.86	**47.41N**±.055	**1.6W**±.12	**7**±13			**18**	**1-4**
NEIC	VII	03 21 31 11.1	47.41N	1.52W	5				¶97vii0455
LDG	VII	03 21 31 12.1	47.4N	1.6W		2.7L			
ISC	**VII**	**04 05 09 57.4**±.81	**44.73N**±.063	**6.8E**±.15	**9**±9.1			**8**	**0-1**
NEIC	VII	04 05 09 57.4	44.73N	6.87E	5				¶97vii0504
LDG	VII	04 05 09 58.1	44.7N	6.8E		2.0L			
NEIC		Single network solution.							
ISC	**VII**	**05 12 21 18**±1.2	**45.94N**±.078	**2.9E**±.14	**10**			**7**	**1-1**
LDG	VII	05 12 21 19.3	46.0N	2.8E		1.9L			¶97vii0726
NEIC	VII	05 12 21 19.3	45.98N	2.77E	10				
NEIC		Single network solution.							
LDG	**VII**	**05 12 32 17.3**	**45.9N**	**2.8E**		**1.4L**			¶97vii0727
LDG	**VII**	**05 17 51 51.7**	**46.0N**	**2.8E**		**1.4L**			¶97vii0761
LDG	**VII**	**05 18 13 25.1**	**46.0N**	**2.8E**		**1.4L**			¶97vii0765
LDG	**VII**	**05 21 57 15.5**	**48.5N**	**3.4W**		**2.2L**			¶97vii0797
ISC	**VII**	**05 23 11 50**±1.2	**45.9N**±.10	**2.9E**±.26	**10**			**7**	**1-1**
LDG	VII	05 23 11 51.2	46.0N	2.8E		1.5L			¶97vii0804
NEIC	VII	05 23 11 51.3	45.98N	2.77E	10				
NEIC		Single network solution.							
ISC	**VII**	**06 01 21 49.6**±.82	**45.55N**±.054	**3.73E**±.082	**7**±12			**11**	**1-2**
NEIC	VII	06 01 21 50.4	45.54N	3.71E	5				¶97vii0816
LDG	VII	06 01 21 51.3	45.6N	3.7E		2.4L			
NEIC		Single network solution.							
ISC	**VII**	**06 17 28 23.4**±.86	**45.54N**±.052	**3.7E**±.10	**5**			**10**	**1-2**
NEIC	VII	06 17 28 25.0	45.55N	3.67E	5				¶97vii0911
LDG	VII	06 17 28 25.5	45.6N	3.7E		2.0L			
NEIC		Single network solution.							
ISC	**VII**	**06 18 01 33.7**±.85	**45.90N**±.048	**6.7E**±.10	**12**±14			**16**	**0-3**
NEIC	VII	06 18 01 33.4	45.94N	7.02E	5				¶97vii0917
LDG	VII	06 18 01 34.9	45.9N	6.9E		2.4L			
NEIC		Single network solution.							
LDG	**VII**	**06 22 01 47.9**	**45.3N**	**6.9E**		**1.7L**			¶97vii0944
ISC	**VII**	**07 13 22 24**±7.8	**45.9N**±.50	**2.9E**±.19	**0**			**6**	**1-1**
LDG	VII	07 13 22 25.6	46.0N	2.8E		2.0L			¶97vii1049
ISC	**VII**	**10 04 50 10**±2.4	**44.45N**±.049	**7.0E**±.53	**5**			**6**	**0-1**
NEIC	VII	10 04 50 11.1	44.46N	6.92E	5				¶97vii1452
LDG	VII	10 04 50 12.0	44.5N	6.8E		1.8L			
NEIC		Single network solution.							
LDG	**VII**	**10 20 42 09.4**	**47.3N**	**1.0E**		**1.8L**			¶97vii1565
ISC	**VII**	**11 02 02 12.5**±.85	**44.83N**±.083	**5.15E**±.072	**5**			**11**	**0-3**
NEIC	VII	11 02 02 13.0	44.75N	5.19E	5				¶97vii1612
LDG	VII	11 02 02 14.0	44.8N	5.2E		1.9L			
NEIC		Single network solution.							
ISC	**VII**	**11 03 16 37.0**±.44	**48.71N**±.032	**7.65E**±.058	**10**±6.6			**25**	**0-3**
LDG	VII	11 03 16 37.7	48.7N	7.8E		2.3L			¶97vii1620
NEIC	VII	11 03 16 37.8	48.74N	7.63E	5				
LEDBW	VII	11 03 16 38.0	48.73N	7.73E	11	1.9L			
ISC	**VII**	**11 17 28 40.5**±.60	**44.54N**±.031	**6.78E**±.081	**10**±7.2			**21**	**0-3**
NEIC	VII	11 17 28 40.4	44.56N	6.98E	5				¶97vii1709
LDG	VII	11 17 28 41.4	44.6N	6.9E		2.3L			
ISC	**VII**	**14 09 31 41.2**±.61	**45.45N**±.026	**6.50E**±.044	**3**±5.4			**46**	**0-4**
ROM	VII	14 09 31 41.6	45.4N	6.6E	8	2.5D			¶97vii2095
NEIC	VII	14 09 31 41.6	45.46N	6.47E	5				
LDG	VII	14 09 31 43.1	45.5N	6.5E		2.8L			
NEIC	M_L2.4(STR).								
ISC	**VII**	**14 15 41 41**±4.4	**47.6N**±.14	**3.4W**±.33	**0**			**7**	**0-2**
LDG	VII	14 15 41 40.7	47.7N	3.8W		2.3L			¶97vii2165
LDG	**VII**	**14 15 56 45.9**	**44.7N**	**1.9W**		**2.5L**			¶97vii2168
ISC	**VII**	**14 17 54 07.5**±.73	**45.26N**±.045	**6.7E**±.16	**5**			**9**	**0-3**
LDG	VII	14 17 54 07.4	45.3N	7.0E		2.1L			¶97vii2183
NEIC	VII	14 17 54 07.8	45.25N	6.80E	5				
NEIC		Single network solution.							
ISC	**VII**	**15 22 55 41.4**±.67	**44.47N**±.039	**6.78E**±.065	**8**±7.4			**22**	**0-3**
NEIC	VII	15 22 55 41.9	44.48N	6.89E	5				¶97vii2365
LDG	VII	15 22 55 42.6	44.5N	6.8E		2.1L			
NEIC		Single network solution.							
ISC	**VII**	**17 18 46 52.8**±.96	**44.71N**±.048	**6.8E**±.15	**2**±17			**8**	**0-1**
NEIC	VII	17 18 46 52.9	44.74N	6.81E	5				¶97vii2627
LDG	VII	17 18 46 53.7	44.7N	6.8E		2.0L			
NEIC		Single network solution.							
LDG	**VII**	**18 12 25 37.8**	**46.2N**	**1.6E**		**2.0L**			¶97vii2738
ISC	**VII**	**19 01 25 42.4**±.49	**45.02N**±.023	**6.55E**±.045	**5**±4.8			**49**	**0-4**
NEIC	VII	19 01 25 42.8	45.04N	6.54E	5				¶97vii2814
ROM	VII	19 01 25 43.1	45.1N	6.6E	11	2.6D			
LDG	VII	19 01 25 44.0	45.0N	6.5E		2.9L			
NEIC	M_L2.8(STR).								
ISC	**VII**	**19 12 39 49**±1.3	**46.04N**±.070	**6.0E**±.14	**5**			**8**	**1-2**
LDG	VII	19 12 39 49.3	45.9N	6.1E		2.1L			¶97vii2875
NEIC	VII	19 12 39 50.9	45.87N	6.15E	5				
NEIC		Single network solution.							
ISC	**VII**	**20 15 49 42**±1.5	**45.3N**±.20	**6.3E**±.16	**10**			**5**	**0-3**
LDG	VII	20 15 49 42.3	45.7N	6.2E		1.9L			¶97vii3117
NEIC	VII	20 15 49 43.3	45.40N	6.29E	10				
ISC		Poorly determined							
NEIC		Poor solution.							
ISC	**VII**	**20 19 08 58**±2.4	**48.8N**±.24	**2.1W**±.13	**10**			**6**	**1-1**
LDG	VII	20 19 08 59.7	48.7N	2.1W		1.9L			¶97vii3136
NEIC	VII	20 19 08 59.8	48.69N	2.11W	10				
NEIC		Single network solution.							
ISC	**VII**	**20 23 21 35.8**±.63	**45.57N**±.042	**3.75E**±.069	**10**			**14**	**0-3**
LDG	VII	20 23 21 37.6	45.6N	3.7E		2.1L			¶97vii3158
NEIC	VII	20 23 21 38.1	45.58N	3.70E	10				
ISC	**VII**	**20 23 57 00**±4.6	**49.0N**±.29	**2.7W**±.25	**10**			**7**	**1-3**
LDG	VII	20 23 57 03.4	48.9N	2.6W		1.7L			¶97vii3162
NEIC	VII	20 23 57 03.6	48.83N	2.70W	10				
NEIC		Single network solution.							
ISC	**VII**	**22 09 29 09.4**±.93	**46.21N**±.072	**1.25E**±.086	**7**±17			**9**	**1-2**
NEIC	VII	22 09 29 11.1	46.18N	1.20E	5				¶97vii3350
LDG	VII	22 09 29 11.2	46.2N	1.3E		2.6L			
NEIC		Single network solution.							
ISC	**VII**	**22 16 23 25.3**±.93	**45.62N**±.070	**5.67E**±.088	**5**			**6**	**1-2**
NEIC	VII	22 16 23 26.5	45.59N	5.74E	5				¶97vii3394
LDG	VII	22 16 23 26.7	45.6N	5.7E		2.1L			
NEIC		Single network solution.							
ISC	**VII**	**22 17 59 03.8**±.81	**44.15N**±.044	**6.9E**±.15	**10**			**7**	**1-1**
NEIC	VII	22 17 59 04.5	44.12N	6.89E	10				¶97vii3406
LDG	VII	22 17 59 04.9	44.1N	6.9E		2.0L			
NEIC		Single network solution.							
LDG	**VII**	**23 05 25 02.4**	**48.1N**	**2.9W**		**1.7L**			¶97vii3485
LDG	**VII**	**25 04 57 24.8**	**45.0N**	**6.2E**					¶97vii3773
LDG	**VII**	**25 07 48 37.8**	**45.8N**	**0.9E**		**2.3L**			¶97vii3796
ISC	**VII**	**25 11 16 09.6**±.60	**44.50N**±.037	**6.84E**±.091	**5**			**14**	**0-2**
NEIC	VII	25 11 16 10.0	44.52N	6.96E	5				¶97vii3817
LDG	VII	25 11 16 10.3	44.5N	6.9E		2.1L			
ISC	**VII**	**25 11 36 41.7**±.81	**47.16N**±.082	**5.54E**±.080	**9**±13			**11**	**1-2**
NEIC	VII	25 11 36 42.3	47.13N	5.57E	5				¶97vii3819
LDG	VII	25 11 36 43.1	47.1N	5.6E		2.6L			
NEIC		Single network solution.							
ISC	**VII**	**28 03 13 22**±1.0	**47.90N**±.087	**2.26W**±.075	**5**			**7**	**0-2**
NEIC	VII	28 03 13 23.8	47.95N	2.35W	5				¶97vii4200
LDG	VII	28 03 13 24.0	47.9N	2.3W		2.1L			

NEIC Single network solution.
ISC VII 29 09 35 13±1.6 **46.81N**±.079 **3.8E**±.20 **5** **4 0-0**
NEIC VII 29 09 35 12.6 46.80N 3.84E 5 **¶97vii4414**
LDG VII 29 09 35 12.8 46.8N 3.9E 1.5L
ISC Poorly determined
NEIC Poor solution.
ISC VII 30 10 33 49±2.8 **46.2N**±.24 **4.3E**±.12 **10** **8 1-1**
LDG VII 30 10 33 51.3 46.3N 4.3E 2.0L **¶97vii4568**
NEIC VII 30 10 33 51.6 46.31N 4.26E 10
NEIC Single network solution.
ISC VII 31 15 57 12.5±.65 **45.22N**±.050 **5.46E**±.066 **10** **12 0-2**
LDG VII 31 15 57 14.2 45.2N 5.5E 2.2L **¶97vii4756**
NEIC VII 31 15 57 14.3 45.14N 5.54E 10
NEIC Single network solution.
ISC VIII 01 03 34 41±1.4 **45.34N**±.060 **6.8E**±.24 **5** **6 0-2**
NEIC VIII 01 03 34 41.1 45.33N 6.79E 5 **¶97viii0022**
LDG VIII 01 03 34 41.4 45.3N 6.7E 1.7L
NEIC Single network solution.
ISC VIII 02 15 10 23.5±.50 **44.53N**±.033 **6.76E**±.068 **12**±7.6 **21 0-2**
NEIC VIII 02 15 10 24.2 44.55N 6.86E 10 **¶97viii0229**
LDG VIII 02 15 10 24.5 44.5N 6.8E 2.1L
ISC VIII 03 05 05 48.4±.54 **44.90N**±.035 **6.57E**±.063 **4**±10 **19 0-2**
LDG VIII 03 05 05 49.5 44.9N 6.6E 2.1L **¶97viii0302**
NEIC VIII 03 05 05 49.5 44.93N 6.66E 10
ISC VIII 03 05 08 49.8±.61 **44.87N**±.040 **6.57E**±.067 **10** **13 0-2**
NEIC VIII 03 05 08 50.5 44.92N 6.63E 10 **¶97viii0303**
LDG VIII 03 05 08 50.6 44.9N 6.6E 1.5L
ISC VIII 03 10 26 25.7±.28 **44.92N**±.022 **6.61E**±.039 **10** **55 0-4**
NEIC VIII 03 10 26 26.0 44.92N 6.63E 10 **¶97viii0351**
LDG VIII 03 10 26 26.7 44.9N 6.6E 2.7L
NEIC $M_{L2.7}$(STR).
LDG VIII 03 11 31 25.1 45.9N 1.5W 2.0L ¶97viii0355
ISC VIII 04 23 51 32.5±.44 **44.11N**±.029 **6.95E**±.046 **7**±6.7 **30 0-4**
NEIC VIII 04 23 51 32.5 44.09N 6.97E 5 **¶97viii0580**
LDG VIII 04 23 51 33.2 44.1N 7.0E 2.1L
NEIC Single network solution.
ISC VIII 05 00 04 11.2±.75 **44.88N**±.043 **6.56E**±.078 **5** **12 0-2**
NEIC VIII 05 00 04 11.6 44.92N 6.61E 5 **¶97viii0581**
LDG VIII 05 00 04 11.7 44.9N 6.6E 1.6L
NEIC Single network solution.
ISC VIII 05 02 03 13.9±.77 **44.87N**±.047 **6.58E**±.083 **5** **10 0-2**
LDG VIII 05 02 03 14.5 44.9N 6.6E 1.4L **¶97viii0597**
NEIC VIII 05 02 03 14.5 44.91N 6.58E 5
NEIC Single network solution.
ISC VIII 05 04 16 46.7±.80 **44.85N**±.044 **6.70E**±.095 **10**±13 **10 0-2**
LDG VIII 05 04 16 47.0 44.8N 6.7E 1.6L **¶97viii0615**
NEIC VIII 05 04 16 47.5 44.88N 6.68E 5
NEIC Single network solution.
ISC VIII 05 17 15 21.4±.78 **44.66N**±.052 **6.78E**±.099 **12**±9.5 **11 0-2**
NEIC VIII 05 17 15 22.2 44.71N 6.76E 10 **¶97viii0693**
LDG VIII 05 17 15 22.6 44.7N 6.8E 1.5L
NEIC Poor solution.
ISC VIII 05 23 24 22±1.6 **47.13N**±.059 **3.5W**±.21 **10** **16 1-6**
NEIC VIII 05 23 24 22.6 47.12N 3.52W 10 **¶97viii0734**
LDG VIII 05 23 24 24.6 47.2N 3.6W 2.9L
ISC VIII 05 23 29 08±6.0 **47.0N**±.25 **3.6W**±.64 **10** **5 1-2**
NEIC VIII 05 23 29 09.5 47.10N 3.40W 10 **¶97viii0736**
LDG VIII 05 23 29 11.4 47.2N 3.6W 2.3L
NEIC Poor solution.
NEIC VIII 06 00 05 43.2 47.53N 3.48W 10 0-2
LDG VIII 06 00 05 37.8 47.2N 3.6W 1.8L **¶97viii0739**
NEIC Poor solution.
ISC VIII 06 11 26 58.8±.30 **46.91N**±.029 **5.51E**±.038 **10** **67 0-6**
NEIC VIII 06 11 26 59.2 46.79N 5.48E 10 **¶97viii0790**
LDG VIII 06 11 27 00.3 46.8N 5.6E 3.4L
STR VIII 06 11 27 00.5 46.89N 5.62E 13 3.5L
ISC VIII 06 15 45 20.3±.90 **45.40N**±.067 **6.6E**±.11 **10** **6 0-1**
LDG VIII 06 15 45 20.4 45.4N 6.7E 1.9L **¶97viii0818**
NEIC VIII 06 15 45 20.4 45.36N 6.80E 10
NEIC Single network solution.
ISC VIII 06 22 59 11.4±.28 **45.00N**±.028 **4.11E**±.033 **10** **72 0-6**
NEIC VIII 06 22 59 11.3 44.98N 4.12E 10 **¶97viii0849**
STR VIII 06 22 59 12.6 45.08N 4.15E 10 3.1L
LDG VIII 06 22 59 12.6 45.0N 4.2E 3.1L
MDD VIII 06 22 59 13.1 44.97N 4.20E 9 2.6
ISC VIII 07 00 01 26.7±.61 **45.39N**±.051 **3.11E**±.057 **5** **14 1-3**
LDG VIII 07 00 01 28.4 45.4N 3.1E 2.2L **¶97viii0858**
NEIC VIII 07 00 01 28.8 45.41N 3.09E 5
NEIC Single network solution.
ISC VIII 07 02 08 46.6±.50 **44.63N**±.033 **6.72E**±.071 **11**±7.1 **23 0-3**
NEIC VIII 07 02 08 47.3 44.67N 6.81E 10 **¶97viii0873**
LDG VIII 07 02 08 47.7 44.7N 6.7E 2.0L
NEIC Single network solution.
ISC VIII 07 09 30 56.4±.63 **45.92N**±.042 **6.04E**±.080 **10** **13 1-3**
LDG VIII 07 09 30 58.1 45.9N 6.1E 2.5L **¶97viii0917**
NEIC VIII 07 09 30 58.2 45.99N 6.25E 10
NEIC Single network solution.
LDG VIII 08 00 39 51.1 48.2N 3.2W 1.6L ¶97viii1025
NEIC VIII 08 00 39 51.2 48.18N 3.24W 5
NEIC Single network solution.
ISC VIII 08 00 41 02±1.4 **48.18N**±.090 **3.1W**±.14 **0** **6 0-2**
LDG VIII 08 00 41 02.0 48.2N 3.2W 1.6L **¶97viii1027**
ISC Poorly determined
LDG VIII 08 00 41 34.8 48.2N 3.2W 1.6L ¶97viii1028
ISC VIII 08 23 42 51.8±.56 **44.63N**±.034 **6.81E**±.090 **5** **20 0-4**
NEIC VIII 08 23 42 52.0 44.65N 6.82E 5 **¶97viii1180**
LDG VIII 08 23 42 54.1 44.6N 6.8E 2.2L
NEIC Single network solution.
LDG VIII 11 20 30 44.8 47.3N 3.1W 1.8L ¶97viii1623
ISC VIII 11 20 42 00.7±.89 **44.59N**±.064 **4.76E**±.061 **14**±11 **22 0-4**
NEIC VIII 11 20 42 00.9 44.49N 4.70E 10 **¶97viii1625**
LDG VIII 11 20 42 01.6 44.5N 4.8E 2.2L
NEIC M_{L}2.2(STR), Less reliable solution.
LDG VIII 11 22 28 47.3 47.4N 4.5W 2.1L ¶97viii1638
LDG VIII 11 22 37 07.2 47.6N 3.1W 1.8L ¶97viii1639
NEIC VIII 11 22 37 11.6 47.88N 3.09W 5
NEIC Single network solution.
ISC VIII 12 11 18 53.4±.83 **46.06N**±.060 **5.71E**±.087 **5** **9 1-2**
NEIC VIII 12 11 18 54.6 46.06N 5.87E 5 **¶97viii1733**
LDG VIII 12 11 18 54.9 46.1N 5.8E 2.0L
NEIC Single network solution.
ISC VIII 12 23 15 55.8±.72 **44.82N**±.041 **6.58E**±.081 **11**±9.6 **13 0-1**
NEIC VIII 12 23 15 56.3 44.84N 6.62E 5 **¶97viii1817**
LDG VIII 12 23 15 56.6 44.8N 6.6E 1.7L
ISC VIII 13 14 23 30±3.6 **44.72N**±.094 **6.6E**±.46 **27**±13 5.0b **8 0-57**
NEIC VIII 13 14 23 30.3 44.72N 6.59E 10 **¶97viii1916**
NEIC Single network solution.
LDG VIII 14 04 06 57.4 48.1N 3.6W ¶97viii2000
LDG VIII 14 12 59 44.5 48.3N 4.3W 2.2L ¶97viii2064
ISC VIII 15 17 10 19.3±.83 **45.87N**±.057 **2.9E**±.11 **5** **8 1-2**
LDG VIII 15 17 10 20.8 45.9N 2.9E 2.1L **¶97viii2243**
NEIC VIII 15 17 10 21.2 45.92N 2.87E 5
NEIC Single network solution.
ISC VIII 15 22 33 27±1.4 **45.8N**±.12 **2.9E**±.28 **5** **8 1-2**
NEIC VIII 15 22 33 28.0 45.88N 2.81E 5 **¶97viii2281**
LDG VIII 15 22 33 28.3 45.9N 2.8E 1.7L
NEIC Single network solution.
LDG VIII 15 22 39 19.8 43.1N 0.2E 2.2L ¶97viii2282
ISC VIII 15 22 39 51±1.1 **45.87N**±.059 **2.9E**±.15 **10** **8 1-2**
LDG VIII 15 22 39 52.9 45.9N 2.8E 2.0L **¶97viii2283**
NEIC VIII 15 22 39 52.9 45.89N 2.81E 10
NEIC Single network solution.
LDG VIII 16 14 35 28.0 45.2N 6.1E ¶97viii2384
ISC VIII 16 20 19 01.6±.55 **44.49N**±.033 **6.84E**±.070 **9**±9.2 **18 0-1**
NEIC VIII 16 20 19 01.8 44.50N 6.88E 5 **¶97viii2416**
LDG VIII 16 20 19 02.4 44.5N 6.9E 1.9L
NEIC $M_{L2.2}$(GEN)
ISC VIII 16 22 47 51.6±.68 **47.04N**±.041 **6.45E**±.083 **5** **11 0-3**
LDG VIII 16 22 47 53.5 47.0N 6.4E 2.0L **¶97viii2430**
NEIC VIII 16 22 47 54.1 47.07N 6.58E 5
ISC VIII 17 02 50 45±1.3 **45.13N**±.047 **3.47E**±.058 **11**±11 **25 1-5**
NEIC VIII 17 02 50 44.9 45.12N 3.50E 10 **¶97viii2464**
LDG VIII 17 02 50 46.2 45.1N 3.5E 3.0L
ISC VIII 17 02 54 59.7±.61 **45.09N**±.049 **3.48E**±.056 **10**±16 **14 1-3**
LDG VIII 17 02 55 02.1 45.1N 3.5E 2.4L **¶97viii2467**
NEIC VIII 17 02 55 02.9 45.20N 3.54E 10
ISC VIII 17 05 22 32.6±.95 **46.05N**±.052 **1.3W**±.10 **10** **17 1-4**
LDG VIII 17 05 22 35.4 46.0N 1.4W 2.5L **¶97viii2488**
NEIC VIII 17 05 22 38.0 45.94N 1.09W 10
NEIC Single network solution.
ISC VIII 18 04 14 32±1.4 **45.8N**±.12 **3.0E**±.28 **5** **7 1-2**
NEIC VIII 18 04 14 32.8 45.85N 2.86E 5 **¶97viii2617**
LDG VIII 18 04 14 33.1 45.9N 2.8E 1.7L
NEIC Single network solution.
ISC VIII 19 00 54 18±3.6 **47.40N**±.076 **0.3E**±.64 **5** **6 1-3**
NEIC VIII 19 00 54 19.2 47.36N 0.31E 5 **¶97viii2739**
LDG VIII 19 00 54 19.9 47.4N 0.2E 1.8L
ISC Poorly determined
NEIC Poor solution.
ISC VIII 19 16 15 09±1.1 **45.53N**±.073 **6.5E**±.11 **5** **6 0-1**
NEIC VIII 19 16 15 08.9 45.51N 6.55E 5 **¶97viii2833**
LDG VIII 19 16 15 09.4 45.5N 6.6E 1.7L
NEIC Single network solution.
ISC VIII 19 18 49 55.8±.62 **45.01N**±.040 **6.72E**±.087 **15**±7.2 **16 0-3**
NEIC VIII 19 18 49 56.1 45.02N 6.78E 5 **¶97viii2856**
LDG VIII 19 18 49 56.5 45.0N 6.8E 1.4L
NEIC $M_{L2.0}$(GEN)
ISC VIII 19 19 47 58.3±.53 **45.02N**±.025 **6.81E**±.047 **4**±5.5 **43 0-4**
NEIC VIII 19 19 47 58.3 45.02N 6.80E 5 **¶97viii2861**
LDG VIII 19 19 47 59.4 45.0N 6.8E 2.5L
NEIC $M_{L2.6}$(GEN)
ISC VIII 19 20 03 57±2.1 **45.0N**±.10 **6.8E**±.24 **13**±11 **5 0-1**
NEIC VIII 19 20 03 56.6 44.98N 6.77E 10 **¶97viii2865**
ISC Poorly determined
NEIC M_{L}1.5(GEN), Single network solution.
ISC VIII 19 21 38 53.9±.54 **45.30N**±.045 **3.51E**±.054 **5** **16 1-3**
NEIC VIII 19 21 38 55.0 45.27N 3.49E 5 **¶97viii2873**
LDG VIII 19 21 38 56.0 45.3N 3.5E 2.3L
NEIC Single network solution.
ISC VIII 20 09 30 48.3±.58 **44.87N**±.039 **6.60E**±.073 **13**±8.1 **15 0-2**
NEIC VIII 20 09 30 49.0 44.92N 6.68E 10 **¶97viii2937**
LDG VIII 20 09 30 49.2 44.9N 6.6E 1.8L
NEIC $M_{L1.9}$(GEN)
ISC VIII 20 14 14 25.7±.52 **45.01N**±.033 **6.75E**±.064 **9**±6.0 **27 0-2**
NEIC VIII 20 14 14 26.1 45.01N 6.83E 5 **¶97viii2970**
LDG VIII 20 14 14 26.3 45.0N 6.8E 2.3L
NEIC $M_{L2.4}$(GEN)
ISC VIII 20 20 57 28.7±.55 **44.51N**±.036 **6.86E**±.070 **11**±7.6 **18 0-1**
NEIC VIII 20 20 57 29.1 44.52N 6.92E 10 **¶97viii3015**
LDG VIII 20 20 57 29.5 44.5N 6.9E 2.0L
NEIC $M_{L2.1}$(GEN)
ISC VIII 21 15 44 47±2.6 **45.03N**±.094 **7.0E**±.21 **18**±45 **5 0-1**
NEIC VIII 21 15 44 47.1 45.03N 6.98E 10 **¶97viii3114**
ISC Poorly determined
NEIC M_{L}1.8(GEN), Single network solution.
ISC VIII 22 02 33 41.3±.76 **47.78N**±.056 **6.6E**±.15 **10** **11 0-3**
NEIC VIII 22 02 33 41.2 47.77N 6.64E 10 **¶97viii3168**
LDG VIII 22 02 33 42.1 47.8N 6.6E 2.1L
NEIC Single network solution.
ISC VIII 22 09 52 38±1.0 **46.72N**±.065 **0.0E**±.16 **10**±12 **7 0-3**
LDG VIII 22 09 52 40.1 46.7N 0.2W 2.5L **¶97viii3206**
ISC VIII 22 14 24 20±6.5 **45.9N**±.39 **5.3E**±.29 **10** **4 1-1**
NEIC VIII 22 14 24 20.9 45.83N 5.36E 10 **¶97viii3237**
LDG VIII 22 14 24 21.1 45.8N 5.3E 2.0L
ISC Poorly determined
NEIC Poor solution.
ISC VIII 22 21 05 51.8±.87 **46.49N**±.059 **1.8W**±.10 **10** **21 1-5**
NEIC VIII 22 21 05 51.3 46.43N 1.95W 10 **¶97viii3285**
LDG VIII 22 21 05 53.6 46.5N 1.9W 2.9L
STR VIII 22 21 05 58.3 46.39N 1.52W 5 3.2L
NEIC Single network solution.
ISC VIII 23 05 38 15±17 **47.3N**±.90 **3.0W**±.53 **0** **5 1-2**
LDG VIII 23 05 38 13.7 47.2N 3.2W 1.8L **¶97viii3343**
ISC Poorly determined
ISC VIII 23 06 15 30±1.0 **45.44N**±.099 **6.5E**±.12 **5** **5 0-1**
LDG VIII 23 06 15 29.0 45.4N 6.8E 1.7L **¶97viii3351**
NEIC VIII 23 06 15 29.5 45.39N 6.59E 5
NEIC Single network solution.
LDG VIII 23 09 24 02.1 43.0N 0.4E 2.1L ¶97viii3378
ISC VIII 23 15 07 14.5±.35 **46.44N**±.033 **1.21E**±.044 **5** **47 1-6**
NEIC VIII 23 15 07 14.8 46.49N 1.24E 5 **¶97viii3419**
STR VIII 23 15 07 16.3 46.47N 1.24E 2 3.7L

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
LDG	VIII 23 15 07 17.0	46.5N	1.3E		3.7L		
NEIC	Single network solution.						
LDG	**VIII 24 18 36 28.5**	**49.7N**	**0.1E**		**1.8L**		**¶97viii3576**
LDG	**VIII 25 02 03 02.7**	**47.8N**	**4.2W**		**1.8L**		**¶97viii3623**
ISC	**VIII 25 19 04 06.5**±.83	**46.48N**±.046	**2.67E**±.090	**5**		**22**	**0-4**
NEIC	VIII 25 19 04 07.7	46.60N	2.55E	5			**¶97viii3727**
LDG	VIII 25 19 04 08.4	46.5N	2.7E		2.4L		
NEIC	Single network solution.						
LDG	**VIII 26 00 41 45.3**	**45.4N**	**6.5E**		**1.2L**		**¶97viii3760**
ISC	**VIII 26 00 49 14**±1.1	**45.42N**±.071	**6.4E**±.12	**5**		**6**	**0-1**
NEIC	VIII 26 00 49 14.5	45.39N	6.41E	5			**¶97viii3762**
LDG	VIII 26 00 49 14.8	45.4N	6.4E		1.7L		
NEIC	Single network solution.						
ISC	**VIII 26 04 25 37.2**±.44	**44.15N**±.028	**6.07E**±.044	**1**±7.0		**36**	**0-3**
NEIC	VIII 26 04 25 35.9	44.05N	6.00E	5			**¶97viii3788**
LDG	VIII 26 04 25 37.1	44.1N	6.1E		2.4L		
NEIC	Single network solution.						
ISC	**VIII 26 17 05 02.0**±.48	**44.45N**±.026	**5.61E**±.041	**1**±5.6		**44**	**1-4**
NEIC	VIII 26 17 05 01.9	44.36N	5.60E	5			**¶97viii3880**
LDG	VIII 26 17 05 03.1	44.4N	5.7E		2.7L		
NEIC	Single network solution.						
ISC	**VIII 26 20 45 37.0**±.66	**44.65N**±.040	**6.81E**±.081	**5**		**15**	**0-1**
NEIC	VIII 26 20 45 37.5	44.71N	6.80E	5			**¶97viii3902**
LDG	VIII 26 20 45 38.2	44.7N	6.8E		1.6L		
NEIC	Single network solution.						
ISC	**VIII 27 22 00 52.2**±.56	**45.45N**±.052	**6.58E**±.059	**13**±7.9		**16**	**0-3**
LDG	VIII 27 22 00 53.7	45.4N	6.7E		1.8L		**¶97viii4044**
ISC	**VIII 27 22 41 29.4**±.41	**45.28N**±.031	**6.25E**±.047	**0**		**27**	**0-3**
LDG	VIII 27 22 41 31.1	45.2N	6.3E		2.3L		**¶97viii4049**
ISC	**VIII 28 05 51 12**±1.0	**45.43N**±.075	**6.5E**±.11	**0**		**5**	**0-1**
LDG	VIII 28 05 51 13.1	45.4N	6.6E		2.0L		**¶97viii4089**
ISC	**VIII 29 05 05 31.0**±.44	**45.62N**±.023	**3.64E**±.037	**7**±4.4		**54**	**0-5**
STR	VIII 29 05 05 33.1	45.63N	3.65E	5	3.5L		**¶97viii4236**
LDG	VIII 29 05 05 33.2	45.6N	3.6E		3.5L		
ISC	**VIII 30 06 51 04**±3.7	**48.7N**±.22	**2.9W**±.23	**0**		**7**	**0-3**
LDG	VIII 30 06 51 06.1	48.6N	2.9W		2.1L		**¶97viii4450**
ISC	**VIII 30 06 56 36.2**±.45	**44.72N**±.021	**6.66E**±.038	**4**±4.5		**62**	**0-22**
NEIC	VIII 30 06 56 36.9	44.70N	6.70E	5			**¶97viii4451**
LDG	VIII 30 06 56 37.8	44.7N	6.7E		3.0L		
NEIC	M_L2.9(STR).						
ISC	**VIII 31 17 21 56**±1.4	**45.02N**±.073	**6.7E**±.19	**0**		**4**	**0-1**
LDG	VIII 31 17 21 56.1	45.0N	6.8E				**¶97viii4682**
ISC	Poorly determined						
ISC	**IX 01 21 06 09**±2.9	**43.0N**±.19	**1.7E**±.16	**0**		**4**	**1-2**
LDG	IX 01 21 06 07.1	42.8N	1.8E		2.2L		**¶97ix0164**
ISC	Poorly determined						
ISC	**IX 02 18 32 04**±1.1	**47.3N**±.12	**4.97E**±.090	**0**		**5**	**1-1**
LDG	IX 02 18 32 04.9	47.3N	5.0E		1.9L		**¶97ix0313**
ISC	**IX 02 22 35 58.9**±.90	**46.36N**±.074	**5.6E**±.10	**0**		**8**	**0-2**
LDG	IX 02 22 36 00.8	46.3N	5.6E		1.8L		**¶97ix0342**
ISC	**IX 03 02 10 38.2**±.35	**43.09N**±.038	**0.15E**±.036	**10**		**40**	**0-6**
NEIC	IX 03 02 10 38.5	43.10N	0.15E	10			**¶97ix0367**
MDD	IX 03 02 10 39.6	43.02N	0.14E	4	3.0		
LDG	IX 03 02 10 40.2	43.1N	0.2E		3.1L		
NEIC	mbLg3.0(MDD).						
NEIC	ML 2.7 (STR).						
ISC	**IX 03 09 28 01.5**±.60	**49.44N**±.045	**5.96E**±.087	**10**		**16**	**0-4**
LDG	IX 03 09 28 02.0	49.5N	6.0E		2.5L		**¶97ix0409**
NEIC	IX 03 09 28 02.2	49.44N	5.88E	10			
UCC	IX 03 09 28 04.4	49.55N	5.82E	10	2.5L		
ISC	**IX 03 14 49 48.9**±.55	**45.39N**±.032	**6.42E**±.048	**1**±5.3		**38**	**0-4**
NEIC	IX 03 14 49 49.8	45.40N	6.50E	10			**¶97ix0436**
LDG	IX 03 14 49 50.6	45.3N	6.5E		2.6L		
ROM	IX 03 14 49 51.1	45.3N	6.7E	5	2.4D		
LDG	**IX 03 19 15 33.1**	**48.2N**	**4.4W**		**2.4L**		**¶97ix0466**
ISC	**IX 04 18 02 53.2**±.43	**43.13N**±.033	**2.63E**±.052	**10**		**26**	**0-5**
NEIC	IX 04 18 02 54.1	43.08N	2.69E	10			**¶97ix0619**
LDG	IX 04 18 02 54.5	43.0N	2.6E		3.0L		
MDD	IX 04 18 02 54.8	43.06N	2.62E	2	3.1		
NEIC	Single network solution.						
LDG	**IX 05 16 17 29.6**	**43.5N**	**2.0E**		**2.2L**		**¶97ix0768**
NEIC	**IX 05 19 02 49.8**	**43.45N**	**1.93E**	**5**			**0-3**
LDG	IX 05 19 02 50.1	43.5N	2.0E		2.3L		**¶97ix0784**
NEIC	Poor solution.						
NEIC	**IX 05 20 20 05.5**	**47.45N**	**3.39W**	**5**			**0-2**
LDG	IX 05 20 20 03.5	47.3N	3.3W		1.9L		**¶97ix0795**
NEIC	Poor solution.						
ISC	**IX 05 23 46 46.5**±.70	**44.71N**±.039	**6.60E**±.081	**10**±11		**13**	**0-1**
NEIC	IX 05 23 46 46.9	44.74N	6.62E	5			**¶97ix0816**
LDG	IX 05 23 46 47.4	44.8N	6.6E		1.7L		
NEIC	M_L2.1(GEN)						
ISC	**IX 06 00 52 16**±1.1	**44.72N**±.045	**6.6E**±.10	**6**±48		**10**	**0-1**
NEIC	IX 06 00 52 16.1	44.75N	6.61E	5			**¶97ix0826**
LDG	IX 06 00 52 16.7	44.7N	6.6E		1.4L		
NEIC	M_L1.8(GEN)						
ISC	**IX 06 02 36 24.3**±.70	**44.71N**±.040	**6.60E**±.078	**9**±12		**14**	**0-1**
NEIC	IX 06 02 36 24.7	44.74N	6.63E	5			**¶97ix0845**
LDG	IX 06 02 36 25.3	44.7N	6.6E		1.8L		
NEIC	M_L1.9(GEN)						
ISC	**IX 06 05 15 53.8**±.91	**45.48N**±.070	**6.52E**±.090	**5**		**6**	**0-1**
NEIC	IX 06 05 15 54.3	45.46N	6.59E	5			**¶97ix0860**
LDG	IX 06 05 15 54.4	45.5N	6.6E		1.6L		
NEIC	Single network solution.						
ISC	**IX 06 07 39 55.2**±.48	**44.51N**±.032	**6.97E**±.068	**11**±6.9		**21**	**0-1**
NEIC	IX 06 07 39 55.6	44.53N	7.05E	10			**¶97ix0879**
LDG	IX 06 07 39 57.0	44.5N	7.0E		2.0L		
NEIC	M_L2.2(GEN)						
ISC	**IX 06 07 47 10.4**±.61	**44.50N**±.041	**6.96E**±.079	**12**±8.3		**14**	**0-1**
NEIC	IX 06 07 47 10.7	44.53N	7.02E	10			**¶97ix0881**
LDG	IX 06 07 47 11.6	44.5N	6.9E		1.7L		
NEIC	M_L2.0(GEN)						
ISC	**IX 06 10 19 14**±8.8	**44.7N**±.17	**6.6E**±.72	**5**		**4**	**0-1**
NEIC	IX 06 10 19 13.3	44.70N	6.58E	5			**¶97ix0899**
ISC	Poorly determined						
NEIC	M_L1.9(GEN), Poor solution.						
ISC	**IX 06 23 58 48.7**±.76	**47.39N**±.046	**6.87E**±.091	**5**		**11**	**0-2**
LDG	IX 06 23 58 50.5	47.4N	6.9E		2.2L		**¶97ix0993**
NEIC	IX 06 23 58 51.0	47.47N	6.91E	5			
NEIC	Single network solution.						
ISC	**IX 07 00 04 50.7**±.94	**45.60N**±.049	**6.4E**±.14	**10**		**10**	**0-3**
LDG	IX 07 00 04 48.7	45.8N	7.4E		2.2L		**¶97ix0997**
NEIC	IX 07 00 04 51.1	45.59N	6.39E	10			
NEIC	Single network solution.						
ISC	**IX 07 10 46 09.7**±.67	**44.67N**±.037	**6.63E**±.088	**14**±8.6		**14**	**0-1**
NEIC	IX 07 10 46 10.2	44.70N	6.63E	5			**¶97ix1049**
LDG	IX 07 10 46 10.8	44.7N	6.7E		1.7L		
NEIC	Single network solution.						
LDG	**IX 07 16 13 51.4**	**45.2N**	**6.1E**				**¶97ix1101**
LDG	**IX 07 19 05 29.1**	**47.3N**	**3.4W**		**2.0L**		**¶97ix1115**
ISC	**IX 08 00 28 28.0**±.65	**44.72N**±.037	**6.67E**±.077	**5**		**12**	**0-1**
NEIC	IX 08 00 28 28.4	44.75N	6.71E	5			**¶97ix1144**
LDG	IX 08 00 28 28.6	44.7N	6.7E		1.6L		
ISC	**IX 08 02 54 20.7**±.68	**44.71N**±.039	**6.57E**±.085	**5**		**11**	**0-1**
NEIC	IX 08 02 54 21.2	44.75N	6.60E	5			**¶97ix1159**
LDG	IX 08 02 54 22.0	44.7N	6.6E		2.0L		
NEIC	M_L1.8(GEN).						
ISC	**IX 08 09 55 07**±7.4	**44.7N**±.11	**6.3E**±.70	**10**		**5**	**0-1**
NEIC	IX 08 09 55 06.4	44.75N	6.27E	10			**¶97ix1206**
NEIC	M_L1.8(GEN), Poor solution.						
ISC	**IX 08 17 57 38.8**±.46	**44.71N**±.032	**6.60E**±.058	**14**±6.7		**23**	**0-5**
NEIC	IX 08 17 57 39.4	44.74N	6.70E	5			**¶97ix1258**
LDG	IX 08 17 57 40.3	44.7N	6.7E		2.2L		
NEIC	M_L2.4(GEN)						
NEIC	**IX 08 17 58 41.6**	**47.81N**	**2.87W**	**5**			**0-2**
NEIC	M_L2.4(LDG), Single network solution.						**¶97ix1259**
NEIC	**IX 08 21 17 01.8**	**47.57N**	**3.70W**	**5**			**0-3**
NEIC	M_L2.0(LDG), Poor solution.						**¶97ix1282**
LDG	**IX 11 05 27 19.3**	**43.4N**	**2.4E**		**1.8L**		**¶97ix1641**
ISC	**IX 12 03 19 52.4**±.80	**44.50N**±.043	**6.4E**±.13	**3**±21		**9**	**0-1**
NEIC	IX 12 03 19 52.9	44.51N	6.37E	5			**¶97ix1766**
LDG	IX 12 03 19 53.7	44.5N	6.3E		1.8L		
NEIC	Single network solution.						
ISC	**IX 12 15 34 52**±6.6	**48.3N**±.14	**5.5E**±.53	**0**±28		**7**	**0-2**
NEIC	IX 12 15 34 54.2	48.35N	5.59E	10			**¶97ix1832**
NEIC	Less reliable solution.						
ISC	**IX 12 20 37 07**±3.6	**43.0N**±.22	**1.9E**±.20	**0**		**5**	**0-3**
LDG	IX 12 20 37 04.9	42.8N	2.1E		2.3L		**¶97ix1873**
ISC	Poorly determined						
ISC	**IX 13 02 44 11**±1.3	**44.94N**±.077	**6.6E**±.16	**5**		**4**	**0-1**
NEIC	IX 13 02 44 10.7	44.94N	6.64E	5			**¶97ix1901**
LDG	IX 13 02 44 11.0	44.9N	6.7E				
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**IX 13 03 47 58.4**±.70	**44.76N**±.039	**6.60E**±.089	**11**±8.4		**15**	**0-1**
NEIC	IX 13 03 47 58.8	44.78N	6.64E	5			**¶97ix1912**
LDG	IX 13 03 47 59.3	44.8N	6.6E		1.9L		
ISC	**IX 13 05 46 25**±1.7	**45.4N**±.13	**6.6E**±.22	**5**		**4**	**0-1**
NEIC	IX 13 05 46 24.7	45.43N	6.58E	5			**¶97ix1927**
LDG	IX 13 05 46 24.9	45.5N	6.6E				
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**IX 13 06 05 07.0**±.87	**45.48N**±.061	**6.52E**±.076	**5**±20		**10**	**0-1**
NEIC	IX 13 06 05 07.6	45.46N	6.58E	5			**¶97ix1934**
LDG	IX 13 06 05 07.9	45.5N	6.6E		2.0L		
ISC	**IX 13 14 21 56.1**±.79	**47.38N**±.075	**4.24E**±.068	**5**		**15**	**0-3**
NEIC	IX 13 14 21 56.1	47.37N	4.26E	5			**¶97ix1986**
LDG	IX 13 14 21 58.5	47.3N	4.2E		2.8L		
NEIC	M_L2.8(LDG), Single network solution.						
ISC	**IX 13 17 59 38.4**±.38	**44.76N**±.019	**6.75E**±.032	**3**±3.9		**73**	**0-6**
STR	IX 13 17 59 38.7	44.80N	6.82E	2	3.3L		**¶97ix2005**
NEIC	IX 13 17 59 38.7	44.77N	6.78E	5			
ROM	IX 13 17 59 39.0	44.8N	6.9E	5	2.9D		
LDG	IX 13 17 59 40.4	44.7N	6.7E		3.4L		
NEIC	ML 3.2 (GEN).						
ISC	**IX 13 22 03 09**±1.7	**44.8N**±.11	**6.6E**±.13	**0**		**5**	**0-1**
LDG	IX 13 22 03 07.7	44.9N	6.7E		1.9L		**¶97ix2040**
ISC	**IX 14 00 39 33.6**±.54	**45.96N**±.036	**6.08E**±.070	**5**		**15**	**1-3**
LDG	IX 14 00 39 35.3	46.0N	6.1E		2.4L		**¶97ix2053**
NEIC	IX 14 00 39 35.3	45.90N	5.99E	5			
NEIC	Single network solution.						
NEIC	**IX 14 11 54 38.1**	**47.75N**	**2.84W**	**5**			**0-2**
LDG	IX 14 11 54 36.1	47.6N	2.8W		1.8L		**¶97ix2118**
NEIC	Single network solution.						
ISC	**IX 14 18 23 47.8**±.88	**45.36N**±.067	**6.5E**±.11	**10**		**6**	**0-1**
NEIC	IX 14 18 23 48.3	45.33N	6.61E	10			**¶97ix2157**
LDG	IX 14 18 23 48.5	45.3N	6.6E		2.0L		
NEIC	Single network solution.						
ISC	**IX 15 01 52 47**±1.2	**44.23N**±.067	**6.9E**±.17	**5**		**5**	**1-1**
NEIC	IX 15 01 52 46.5	44.24N	6.92E	5			**¶97ix2187**
LDG	IX 15 01 52 47.2	44.3N	7.0E		2.0L		
NEIC	Single network solution.						
LDG	**IX 15 22 04 17.4**	**47.2N**	**3.2W**		**1.7L**		**¶97ix2288**
ISC	**IX 16 23 07 21**±1.2	**48.4N**±.33	**1.4W**±.17	**5**		**5**	**1-1**
NEIC	IX 16 23 07 21.7	48.45N	1.36W	5			**¶97ix2438**
LDG	IX 16 23 07 22.4	48.5N	1.4W		1.8L		
NEIC	Single network solution.						
ISC	**IX 17 10 21 31.9**±.90	**44.87N**±.046	**6.7E**±.16	**5**		**8**	**0-2**
NEIC	IX 17 10 21 32.6	44.91N	6.72E	5			**¶97ix2500**
LDG	IX 17 10 21 32.9	44.9N	6.7E		2.0L		
NEIC	Single network solution.						
ISC	**IX 17 19 43 08.1**±.81	**45.65N**±.060	**6.23E**±.085	**5**		**9**	**0-2**
NEIC	IX 17 19 43 09.0	45.62N	6.31E	5			**¶97ix2549**
LDG	IX 17 19 43 09.3	45.6N	6.3E		1.7L		
NEIC	Single network solution.						
ISC	**IX 17 23 23 19.8**±.69	**45.90N**±.036	**6.88E**±.087	**5**		**20**	**0-3**
NEIC	IX 17 23 23 20.0	45.86N	6.95E	5			**¶97ix2576**
LDG	IX 17 23 23 20.9	45.9N	7.1E		2.5L		
NEIC	M_L2.7(STR) Poor solution.						
ISC	**IX 17 23 49 24.1**±.68	**43.12N**±.044	**0.36E**±.069	**11**±8.2		**15**	**0-4**
LDG	IX 17 23 49 25.7	43.0N	0.3E		2.6L		**¶97ix2580**
MDD	IX 17 23 49 26.3	42.94N	0.28E	2	2.7		
LDG	**IX 18 01 08 21.1**	**47.2N**	**3.0W**		**1.8L**		**¶97ix2591**
ISC	**IX 18 02 15 00**±2.5	**45.38N**±.076	**6.8E**±.24	**7**±42		**8**	**0-2**
LDG	IX 18 02 14 59.7	45.4N	6.9E		1.7L		**¶97ix2597**
NEIC	IX 18 02 14 59.9	45.37N	6.82E	5			
NEIC	Single network solution.						
ISC	**IX 19 15 39 08.0**±.62	**44.72N**±.043	**6.65E**±.081	**9**±9.9		**15**	**0-1**
NEIC	IX 19 15 39 08.6	44.76N	6.76E	10			**¶97ix2808**
LDG	IX 19 15 39 09.3	44.7N	6.7E		2.4L		
NEIC	M_L2.0(STR).						

ISC	**IX**	**19 15 40 49.2**±.73	**44.71N**±.048	**6.59E**±.082	**0**			**9**	**0-1**
LDG	IX	19 15 40 50.2	44.7N	6.6E		1.9L		**¶97ix2809**	
LDG	**IX**	**19 20 52 04.0**	**45.9N**	**2.8E**		**1.7L**		**¶97ix2848**	
ISC	**IX**	**19 21 23 25.8**±.90	**44.12N**±.047	**7.0E**±.12	**5**			**8**	**0-1**
NEIC	IX	19 21 23 26.2	44.10N	6.98E	5			**¶97ix2851**	
LDG	IX	19 21 23 26.7	44.1N	7.0E		1.5L			
NEIC	Single network solution.								
ISC	**IX**	**19 22 34 08**±1.9	**44.73N**±.076	**6.6E**±.18	**5**±60			**7**	**0-1**
NEIC	IX	19 22 34 08.1	44.75N	6.63E	5			**¶97ix2858**	
LDG	IX	19 22 34 08.7	44.7N	6.7E		1.4L			
ISC	Poorly determined								
NEIC	Single network solution.								
ISC	**IX**	**21 06 04 51**±1.6	**48.6N**±.23	**2.0W**±.12	**10**			**6**	**1-1**
LDG	IX	21 06 04 51.9	48.6N	2.0W		1.9L		**¶97ix3049**	
NEIC	IX	21 06 04 51.9	48.54N	1.99W	10				
NEIC	Single network solution.								
ISC	**IX**	**21 10 23 55**±1.1	**45.52N**±.051	**0.74E**±.097	**1**±9.2			**18**	**1-4**
NEIC	IX	21 10 23 56.0	45.49N	0.67E	10			**¶97ix3082**	
LDG	IX	21 10 23 56.8	45.5N	0.7E		2.6L			
STR	IX	21 10 23 58.6	45.52N	0.84E	2	3.5L			
ISC	**IX**	**21 10 27 30**±1.2	**45.61N**±.068	**0.7E**±.11	**10**			**10**	**1-3**
NEIC	IX	21 10 27 31.4	45.49N	0.46E	10			**¶97ix3083**	
LDG	IX	21 10 27 32.5	45.5N	0.7E		2.1L			
NEIC	M_L2.7(STR), Less reliable solution.								
ISC	**IX**	**21 22 04 35**±1.2	**45.15N**±.081	**6.5E**±.17	**0**			**4**	**0-1**
LDG	IX	21 22 04 35.0	45.2N	6.5E				**¶97ix3173**	
ISC	Poorly determined								
ISC	**IX**	**22 01 23 30.4**±.88	**45.92N**±.053	**3.0E**±.10	**5**			**8**	**1-2**
LDG	IX	22 01 23 32.2	45.9N	3.0E		1.7L		**¶97ix3196**	
NEIC	IX	22 01 23 32.5	45.95N	3.11E	5				
NEIC	Single network solution.								
ISC	**IX**	**22 13 51 14.7**±.83	**44.99N**±.059	**6.19E**±.083	**0**			**7**	**0-2**
LDG	IX	22 13 51 15.9	45.0N	6.2E		2.0L		**¶97ix3288**	
ISC	**IX**	**22 18 04 46.2**±.54	**46.72N**±.048	**4.72E**±.050	**0**			**17**	**1-2**
LDG	IX	22 18 04 47.8	46.7N	4.7E		2.2L		**¶97ix3310**	
ISC	**IX**	**22 19 55 39.0**±.82	**44.54N**±.042	**6.8E**±.15	**0**			**8**	**0-1**
LDG	IX	22 19 55 40.1	44.5N	6.8E		1.7L		**¶97ix3323**	
ISC	**IX**	**23 02 22 02.6**±.76	**44.97N**±.039	**6.8E**±.11	**5**			**10**	**0-2**
LDG	IX	23 02 22 03.7	45.0N	6.8E		2.1L		**¶97ix3358**	
NEIC	IX	23 02 22 03.9	45.00N	6.77E	5				
NEIC	Single network solution.								
LDG	**IX**	**23 02 51 01.7**	**48.3N**	**3.5W**		**2.2L**		**¶97ix3363**	
ISC	**IX**	**23 05 22 15**±1.1	**48.5N**±.12	**1.95W**±.077	**5**			**7**	**0-2**
NEIC	IX	23 05 22 16.1	48.53N	1.97W	5			**¶97ix3380**	
LDG	IX	23 05 22 16.5	48.6N	2.0W		2.1L			
NEIC	Single network solution.								
ISC	**IX**	**23 12 16 36.5**±.64	**47.33N**±.068	**1.15E**±.080	**10**			**16**	**1-3**
LDG	IX	23 12 16 38.3	47.3N	1.1E		2.5L		**¶97ix3416**	
NEIC	IX	23 12 16 40.0	47.21N	0.98E	10				
STR	IX	23 12 16 41.4	47.06N	1.15E	2	3.0L			
ISC	**IX**	**23 16 32 48.3**±.30	**45.10N**±.027	**5.66E**±.039	**10**			**50**	**0-6**
NEIC	IX	23 16 32 48.4	45.10N	5.64E	10			**¶97ix3453**	
LDG	IX	23 16 32 48.9	45.0N	5.7E		3.2L			
NEIC	M_L2.8(STR).								
ISC	**IX**	**23 22 55 39**±1.5	**44.8N**±.10	**6.6E**±.14	**0**			**4**	**0-1**
LDG	IX	23 22 55 38.7	44.8N	6.6E				**¶97ix3494**	
ISC	Poorly determined								
ISC	**IX**	**24 14 05 27.5**±.91	**44.86N**±.050	**6.7E**±.15	**5**			**6**	**0-2**
NEIC	IX	24 14 05 28.1	44.90N	6.68E	5			**¶97ix3588**	
LDG	IX	24 14 05 28.4	44.9N	6.7E		1.9L			
NEIC	Single network solution.								
ISC	**IX**	**24 20 48 37**±1.6	**46.0N**±.16	**2.7E**±.25	**5**			**7**	**1-2**
LDG	IX	24 20 48 39.5	46.2N	2.5E		1.9L		**¶97ix3632**	
NEIC	IX	24 20 48 39.8	46.12N	2.81E	5				
NEIC	Single network solution.								
ISC	**IX**	**25 14 06 16.2**±.88	**45.81N**±.068	**5.3E**±.10	**13**±19			**7**	**1-2**
NEIC	IX	25 14 06 17.2	45.82N	5.32E	10			**¶97ix3749**	
LDG	IX	25 14 06 17.5	45.8N	5.3E		2.2L			
NEIC	Single network solution.								
ISC	**IX**	**26 07 39 17**±1.4	**44.87N**±.081	**6.7E**±.17	**10**			**4**	**0-1**
LDG	IX	26 07 39 17.1	44.8N	6.7E				**¶97ix3913**	
NEIC	IX	26 07 39 17.2	44.87N	6.70E	10				
ISC	Poorly determined								
NEIC	Poor solution.								
ISC	**IX**	**26 15 42 50**±1.9	**47.6N**±.10	**2.8W**±.26	**9**±28			**17**	**0-6**
NEIC	IX	26 15 42 49.8	47.60N	2.75W	10			**¶97ix4062**	
LDG	IX	26 15 42 51.6	47.7N	2.7W		3.0L			
NEIC	Single network solution.								
ISC	**IX**	**26 20 12 22.5**±.44	**48.51N**±.034	**5.82E**±.047	**10**			**40**	**0-4**
NEIC	IX	26 20 12 23.8	48.42N	5.76E	10			**¶97ix4131**	
LDG	IX	26 20 12 24.0	48.5N	5.9E		2.7L			
NEIC	M_L2.4(STR).								
LDG	**IX**	**26 21 35 44.4**	**47.8N**	**3.3W**				**¶97ix4150**	
ISC	**IX**	**27 08 07 17**±1.5	**44.41N**±.044	**6.9E**±.25	**5**			**7**	**0-1**
NEIC	IX	27 08 07 17.5	44.42N	6.91E	5			**¶97ix4297**	
LDG	IX	27 08 07 18.3	44.4N	6.9E		2.0L			
NEIC	Single network solution.								
ISC	**IX**	**27 08 59 12.9**±.69	**44.49N**±.041	**6.47E**±.093	**5**			**9**	**0-1**
NEIC	IX	27 08 59 13.4	44.50N	6.51E	5			**¶97ix4309**	
LDG	IX	27 08 59 14.1	44.5N	6.5E		1.8L			
NEIC	Single network solution.								
ISC	**IX**	**27 19 53 19**±1.5	**47.40N**±.064	**0.0W**±.18	**5**			**11**	**1-3**
NEIC	IX	27 19 53 19.1	47.36N	0.07E	5			**¶97ix4441**	
LDG	IX	27 19 53 19.7	47.4N	0.1E		1.9L			
NEIC	Poor solution.								
ISC	**IX**	**28 23 44 20**±5.4	**49.0N**±.26	**3.6W**±.41	**10**			**7**	**1-3**
LDG	IX	28 23 44 19.9	49.0N	3.8W		2.5L		**¶97ix4795**	
NEIC	IX	28 23 44 23.6	48.72N	3.85W	10				
NEIC	Poor solution.								
ISC	**IX**	**29 01 30 08**±1.1	**45.45N**±.071	**6.5E**±.12	**0**			**5**	**0-1**
NEIC	IX	29 01 30 08.8	45.43N	6.49E	5			**¶97ix4821**	
LDG	IX	29 01 30 09.0	45.4N	6.5E		1.4L			
NEIC	Single network solution.								
ISC	**IX**	**29 20 54 11**±4.7	**44.73N**±.093	**6.6E**±.46	**10**			**5**	**0-1**
NEIC	IX	29 20 54 10.4	44.73N	6.59E	10			**¶97ix5019**	
NEIC	M_L1.8(GEN), Single network solution.								
ISC	**IX**	**30 03 04 59.9**±.86	**46.37N**±.052	**0.05E**±.063	**27**±10			**32**	**0-5**
NEIC	IX	30 03 04 59.2	46.35N	0.04E	20			**¶97ix5107**	
STR	IX	30 03 04 59.9	46.31N	0.00E	5	3.4L			
LDG	IX	30 03 05 00.6	46.3N	0.0E		3.0L			
ISC	**IX**	**30 06 37 01**±1.3	**47.8N**±.13	**5.29E**±.096	**5**			**9**	**1-2**
NEIC	IX	30 06 37 01.5	47.83N	5.34E	5			**¶97ix5148**	
LDG	IX	30 06 37 01.9	47.8N	5.3E		2.3L			
NEIC	Single network solution.								
ISC	**IX**	**30 14 36 41**±1.1	**46.4N**±.13	**1.5E**±.12	**20**			**7**	**1-2**
NEIC	IX	30 14 36 40.8	46.44N	1.50E	20			**¶97ix5250**	
LDG	IX	30 14 36 41.3	46.5N	1.5E		2.3L			
NEIC	Single network solution.								
ISC	**X**	**01 01 46 52.1**±.42	**45.30N**±.035	**5.80E**±.049	**5**			**29**	**0-3**
NEIC	X	01 01 46 52.3	45.29N	5.81E	5			**¶97x0007**	
LDG	X	01 01 46 53.5	45.3N	5.8E		2.4L			
ISC	**X**	**02 00 51 43.3**±.60	**44.18N**±.031	**6.20E**±.049	**2**±6.0			**37**	**1-4**
NEIC	X	02 00 51 43.8	44.16N	6.22E	5			**¶97x0182**	
LDG	X	02 00 51 44.7	44.2N	6.3E		2.3L			
ISC	**X**	**02 16 56 01.6**±.73	**46.22N**±.042	**2.79E**±.084	**5**			**14**	**0-2**
NEIC	X	02 16 56 00.9	46.13N	2.83E	5			**¶97x0315**	
LDG	X	02 16 56 02.3	46.2N	2.8E		2.5L			
NEIC	Single network solution.								
ISC	**X**	**02 20 00 27**±2.9	**46.2N**±.20	**2.9E**±.13	**5**			**6**	**0-1**
NEIC	X	02 20 00 26.6	46.18N	2.85E	5			**¶97x0338**	
LDG	X	02 20 00 27.3	46.2N	2.8E		1.7L			
NEIC	Single network solution.								
ISC	**X**	**03 02 21 05.1**±.56	**43.18N**±.046	**0.01E**±.062	**9**±11			**16**	**0-4**
LDG	X	03 02 21 06.4	43.0N	0.0E		2.4L		**¶97x0370**	
MDD	X	03 02 21 07.3	43.05N	0.03W	3	2.5			
ISC	**X**	**03 15 03 34.1**±.38	**44.32N**±.019	**6.40E**±.026	**5**±3.8			**107**	**0-7**
NEIC	X	03 15 03 33.7	44.29N	6.37E	5			**¶97x0483**	
STR	X	03 15 03 35.0	44.32N	6.44E	3	4.0L			
LDG	X	03 15 03 35.7	44.3N	6.5E		3.8L			
ROM	X	03 15 03 38.7	44.5N	6.7E	5	3.5D			
NEIC	M_L3.6(GEN).								
ISC	**X**	**03 19 17 23.4**±.64	**44.33N**±.038	**6.38E**±.077	**5**			**13**	**0-1**
NEIC	X	03 19 17 23.9	44.32N	6.39E	5			**¶97x0516**	
LDG	X	03 19 17 24.5	44.3N	6.4E		1.6L			
NEIC	Single network solution.								
ISC	**X**	**03 21 09 45.6**±.60	**44.31N**±.031	**6.37E**±.064	**9**±7.1			**27**	**1-3**
NEIC	X	03 21 09 46.0	44.31N	6.42E	5			**¶97x0524**	
LDG	X	03 21 09 46.8	44.3N	6.4E		1.9L			
NEIC	M_L2.3(GEN)								
ISC	**X**	**04 05 23 13.3**±.65	**44.33N**±.034	**6.46E**±.068	**5**			**20**	**0-1**
NEIC	X	04 05 23 13.3	44.32N	6.50E	5			**¶97x0589**	
LDG	X	04 05 23 14.2	44.3N	6.4E		1.8L			
NEIC	M_L2.0(GEN)								
ISC	**X**	**04 14 09 12.5**±.45	**43.16N**±.037	**0.20E**±.041	**2**			**25**	**0-4**
LDG	X	04 14 09 14.2	43.1N	0.2E		2.7L		**¶97x0660**	
MDD	X	04 14 09 14.9	42.98N	0.13E	2	2.8			
ISC	**X**	**04 16 34 02**±1.2	**47.17N**±.066	**2.8W**±.15	**5**			**19**	**1-7**
NEIC	X	04 16 34 01.7	47.16N	2.80W	5			**¶97x0689**	
LDG	X	04 16 34 03.9	47.3N	2.9W		2.7L			
NEIC	Single network solution.								
ISC	**X**	**04 22 00 35.7**±.94	**47.99N**±.085	**2.38W**±.074	**5**			**7**	**0-2**
LDG	X	04 22 00 37.1	48.0N	2.4W		2.0L		**¶97x0744**	
NEIC	X	04 22 00 37.7	48.11N	2.51W	5				
NEIC	Single network solution.								
ISC	**X**	**04 22 43 17.0**±.36	**44.59N**±.023	**6.82E**±.041	**7**±4.5			**43**	**0-4**
NEIC	X	04 22 43 16.7	44.58N	6.80E	5			**¶97x0750**	
LDG	X	04 22 43 18.1	44.6N	6.8E		2.1L			
NEIC	M_L2.5(GEN)								
LDG	**X**	**05 15 43 50.1**	**47.4N**	**3.0W**		**1.9L**		**¶97x0883**	
ISC	**X**	**07 08 42 35.5**±.48	**43.17N**±.039	**0.10E**±.043	**8**±6.7			**26**	**0-4**
LDG	X	07 08 42 37.4	43.1N	0.0E		3.0L		**¶97x1218**	
MDD	X	07 08 42 38.0	42.99N	3.17W	1	3.1			
MDD	Felt I=II at southwest Bayeres Bigorre, France								
ISC	**X**	**07 14 12 23**±2.3	**45.7N**±.15	**6.9E**±.11	**12**±11			**10**	**0-2**
LDG	X	07 14 12 24.1	45.6N	7.0E		2.4L		**¶97x1263**	
ISC	**X**	**08 12 51 58.3**±.81	**44.88N**±.041	**6.7E**±.11	**5**			**9**	**0-2**
NEIC	X	08 12 51 59.5	44.89N	6.73E	5			**¶97x1418**	
LDG	X	08 12 51 59.6	44.9N	6.7E		1.9L			
NEIC	Single network solution.								
ISC	**X**	**08 18 25 20**±6.0	**47.4N**±.30	**2.6E**±.29	**5**±15			**11**	**1-2**
NEIC	X	08 18 25 20.9	47.41N	2.71E	5			**¶97x1451**	
LDG	X	08 18 25 21.4	47.4N	2.7E		1.9L			
NEIC	Single network solution.								
ISC	**X**	**09 04 17 33**±7.0	**44.5N**±.25	**6.6E**±.64	**4**±34			**5**	**0-1**
NEIC	X	09 04 17 32.9	44.49N	6.65E	5			**¶97x1525**	
ISC	Poorly determined								
NEIC	M_L1.7(GEN), Single network solution.								
ISC	**X**	**10 03 00 20**±3.3	**45.77N**±.081	**6.9E**±.42	**5**			**5**	**0-1**
NEIC	X	10 03 00 20.4	45.76N	6.96E	5			**¶97x1684**	
LDG	X	10 03 00 20.7	45.8N	7.0E		1.5L			
NEIC	Single network solution.								
ISC	**X**	**10 10 02 26**±4.2	**45.8N**±.10	**2.9E**±.41	**11**±26			**5**	**0-1**
NEIC	X	10 10 02 25.6	45.81N	2.90E	5			**¶97x1733**	
ISC	Poorly determined								
NEIC	M_L2.2(STR), Single network solution.								
ISC	**X**	**10 17 43 42**±1.3	**45.92N**±.075	**0.5E**±.13	**10**			**5**	**1-2**
NEIC	X	10 17 43 42.9	45.89N	0.31E	10			**¶97x1784**	
LDG	X	10 17 43 43.1	45.9N	0.4E		2.2L			
NEIC	Single network solution.								
LDG	**X**	**10 19 04 46.3**	**47.5N**	**2.6W**		**2.2L**		**¶97x1790**	
ISC	**X**	**12 07 05 42.9**±.77	**44.08N**±.042	**6.9E**±.12	**10**			**8**	**0-1**
NEIC	X	12 07 05 43.8	44.04N	6.87E	10			**¶97x2001**	
LDG	X	12 07 05 44.3	44.1N	6.9E		1.9L			
NEIC	Single network solution.								
ISC	**X**	**12 07 44 00.0**±.59	**44.24N**±.033	**6.57E**±.062	**2**±9.5			**22**	**0-1**
NEIC	X	12 07 44 00.5	44.24N	6.61E	5			**¶97x2007**	
LDG	X	12 07 44 01.2	44.3N	6.6E		1.7L			
NEIC	M_L2.2(GEN)								
ISC	**X**	**13 02 11 06.7**±.76	**47.75N**±.088	**6.00E**±.091	**5**			**8**	**0-2**
LDG	X	13 02 11 08.3	47.8N	6.1E		1.9L		**¶97x2142**	
NEIC	X	13 02 11 08.6	47.74N	6.19E	5				
NEIC	Single network solution.								
ISC	**X**	**15 02 11 53.4**±.51	**45.43N**±.037	**6.47E**±.058	**11**±8.0			**20**	**0-3**
NEIC	X	15 02 11 54.9	45.40N	6.60E	5			**¶97x2537**	
LDG	X	15 02 11 55.1	45.4N	6.6E		2.0L			
NEIC	M_L2.2(GEN)								
ISC	**X**	**15 20 38 26.5**±.75	**43.1N**±.12	**0.01E**±.057	**5**			**11**	**0-7**
NEIC	X	15 20 38 24.7	42.88N	0.01E	5			**¶97x2714**	
LDG	X	15 20 38 26.9	43.0N	0.1E		2.8L			
NEIC	M_L2.5(STR). Less reliable solution.								

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**X**	**15 20 40 25.0**±.57	**43.18N**±.045	**0.17E**±.049	**12**±8.6		**22**	**0-5**
NEIC	X	15 20 40 26.3	43.04N	0.09E	5			¶97x2715
LDG	X	15 20 40 26.5	43.0N	0.1E		2.7L		
MDD	X	15 20 40 27.2	42.98N	9.70W	3	3.1		
NEIC	Poor solution.							
NEIC	Felt I=III MSK in the Ossau Valley.							
ISC	**X**	**16 18 18 16.7**±.59	**45.48N**±.044	**5.97E**±.067	**3**±11		**17**	**1-2**
NEIC	X	16 18 18 18.2	45.44N	6.09E	5			¶97x2865
LDG	X	16 18 18 18.4	45.5N	6.1E		2.1L		
NEIC	Single network solution.							
ISC	**X**	**17 02 10 08.2**±.56	**44.21N**±.033	**6.19E**±.059	**10**		**32**	**1-3**
NEIC	X	17 02 10 08.4	44.22N	6.21E	10			¶97x2919
LDG	X	17 02 10 08.9	44.2N	6.3E		2.2L		
NEIC	M_L2.2(GEN).							
ISC	**X**	**17 07 02 05.9**±.85	**44.24N**±.041	**6.17E**±.091	**4**±10		**16**	**1-3**
NEIC	X	17 07 02 06.5	44.22N	6.25E	10			¶97x2939
LDG	X	17 07 02 07.0	44.2N	6.2E		2.1L		
NEIC	Single network solution.							
ISC	**X**	**17 11 19 04**±1.4	**46.6N**±.15	**5.1E**±.21	**10**		**8**	**1-2**
NEIC	X	17 11 19 04.0	46.61N	5.08E	10			¶97x2974
NEIC	Single network solution.							
ISC	**X**	**17 13 18 34.4**±.61	**44.26N**±.037	**6.30E**±.050	**2**±8.8		**22**	**1-3**
LDG	X	17 13 18 34.7	44.2N	6.3E		2.2L		¶97x2993
NEIC	X	17 13 18 34.9	44.25N	6.32E	10			
NEIC	M_L2.0(STR).							
ISC	**X**	**17 13 21 22.1**±.76	**44.22N**±.051	**6.17E**±.096	**6**±11		**14**	**1-1**
NEIC	X	17 13 21 22.9	44.23N	6.19E	10			¶97x2994
LDG	X	17 13 21 23.4	44.2N	6.2E		1.9L		
NEIC	Single network solution.							
ISC	**X**	**17 17 40 53**±1.7	**43.2N**±.18	**0.11E**±.096	**5**		**4**	**0-2**
NEIC	X	17 17 40 54.3	43.10N	0.07E	5			¶97x3031
LDG	X	17 17 40 54.4	43.1N	0.1E		2.0L		
ISC	Poorly determined							
NEIC	Poor solution.							
ISC	**X**	**18 02 40 11.7**±.42	**44.26N**±.026	**6.26E**±.038	**3**±6.2		**39**	**0-3**
NEIC	X	18 02 40 12.0	44.24N	6.28E	5			¶97x3089
LDG	X	18 02 40 12.2	44.2N	6.3E		2.2L		
NEIC	M_L2.6(GEN)							
NEIC	ML 2.1 (STR).							
ISC	**X**	**18 11 37 54**±1.0	**47.98N**±.094	**6.7E**±.10	**6**±13		**7**	**0-2**
NEIC	X	18 11 37 54.3	48.00N	6.72E	5			¶97x3152
LDG	X	18 11 37 55.0	48.0N	6.7E		1.8L		
NEIC	Single network solution.							
ISC	**X**	**18 23 43 08.1**±.62	**45.17N**±.041	**5.85E**±.067	**13**±10		**18**	**0-3**
NEIC	X	18 23 43 09.2	45.21N	5.84E	5			¶97x3258
LDG	X	18 23 43 09.7	45.2N	5.9E		2.0L		
NEIC	M_L2.2(STR)							
ISC	**X**	**19 10 39 34.4**±.89	**45.85N**±.053	**3.1E**±.10	**10**		**8**	**1-2**
LDG	X	19 10 39 36.0	45.9N	3.0E		1.8L		¶97x3332
NEIC	X	19 10 39 36.2	45.90N	2.96E	10			
NEIC	Single network solution.							
ISC	**X**	**19 16 36 49.8**±.59	**47.56N**±.044	**6.28E**±.070	**10**		**13**	**0-3**
LDG	X	19 16 36 51.7	47.6N	6.3E		2.2L		¶97x3368
NEIC	X	19 16 36 53.5	47.74N	6.37E	10			
NEIC	Single network solution.							
ISC	**X**	**19 17 56 43**±1.0	**45.14N**±.077	**3.3E**±.11	**10**		**8**	**1-2**
LDG	X	19 17 56 44.1	45.2N	3.4E		1.7L		¶97x3375
NEIC	X	19 17 56 44.5	45.24N	3.42E	10			
NEIC	Single network solution.							
ISC	**X**	**20 13 48 49**±1.2	**44.57N**±.099	**4.6E**±.20	**10**		**6**	**1-2**
NEIC	X	20 13 48 50.1	44.58N	4.69E	10			¶97x3508
NEIC	M_L2.5(STR), Single network solution.							
ISC	**X**	**20 15 43 32**±3.1	**44.64N**±.083	**6.7E**±.32	**10**		**7**	**0-1**
NEIC	X	20 15 43 32.0	44.64N	6.69E	10			¶97x3522
NEIC	M_L2.1(GEN), Single network solution.							
ISC	**X**	**22 04 42 32.1**±.42	**44.41N**±.021	**6.48E**±.032	**4**±4.5		**63**	**0-6**
NEIC	X	22 04 42 32.2	44.41N	6.49E	5			¶97x3753
ROM	X	22 04 42 33.1	44.4N	6.6E	10	2.9D		
LDG	X	22 04 42 33.4	44.4N	6.5E		2.9L		
NEIC	M_L2.9(GEN).							
NEIC	ML 2.8 (STR).							
ISC	**X**	**22 04 51 08.4**±.42	**44.42N**±.021	**6.49E**±.033	**5**±4.7		**59**	**0-6**
NEIC	X	22 04 51 08.5	44.41N	6.49E	5			¶97x3754
LDG	X	22 04 51 09.6	44.4N	6.5E		2.8L		
ROM	X	22 04 51 10.0	44.5N	6.8E	4	2.8D		
NEIC	M_L2.8(GEN).							
NEIC	ML 2.7 (STR).							
ISC	**X**	**24 11 46 45.2**±.79	**45.17N**±.041	**6.7E**±.15	**5**		**8**	**0-2**
LDG	X	24 11 46 46.4	45.2N	6.7E		2.1L		¶97x4157
NEIC	X	24 11 46 46.5	45.21N	6.69E	5			
NEIC	Single network solution.							
ISC	**X**	**25 05 05 33**±2.3	**47.4N**±.14	**2.7W**±.13	**0**		**8**	**1-4**
LDG	X	25 05 05 36.2	47.6N	2.8W		1.8L		¶97x4276
ISC	**X**	**25 12 20 30.5**±.57	**46.00N**±.036	**3.08E**±.060	**5**		**20**	**0-3**
NEIC	X	25 12 20 31.4	46.03N	3.02E	5			¶97x4323
LDG	X	25 12 20 31.9	46.0N	3.1E		2.2L		
NEIC	M_L2.3(STR)							
ISC	**X**	**27 05 17 35.1**±.91	**44.99N**±.055	**5.69E**±.088	**5**		**8**	**0-2**
NEIC	X	27 05 17 36.4	45.01N	5.72E	5			¶97x4577
LDG	X	27 05 17 36.5	45.0N	5.7E		1.4L		
NEIC	Single network solution.							
ISC	**X**	**27 15 20 32**±1.6	**43.2N**±.18	**0.16E**±.095	**5**		**4**	**0-2**
LDG	X	27 15 20 33.0	42.9N	0.2E		2.0L		¶97x4625
NEIC	X	27 15 20 33.0	42.98N	0.13E	5			
ISC	Poorly determined							
NEIC	Poor solution.							
ISC	**X**	**28 15 14 25**±2.3	**44.76N**±.084	**6.8E**±.27	**12**±11		**6**	**0-1**
NEIC	X	28 15 14 24.6	44.76N	6.77E	10			¶97x4780
NEIC	Single network solution.							
LDG	**X**	**29 04 24 31.7**	**43.0N**	**0.2E**		**1.9L**		¶97x4850
ISC	**X**	**29 16 16 14**±1.1	**45.23N**±.064	**6.6E**±.16	**5**		**9**	**0-2**
NEIC	X	29 16 16 13.7	45.21N	6.63E	5			¶97x4929
LDG	X	29 16 16 13.9	45.2N	6.7E		1.6L		
NEIC	Single network solution.							
ISC	**X**	**29 19 17 25.8**±.99	**45.42N**±.068	**6.02E**±.098	**5**		**10**	**1-3**
NEIC	X	29 19 17 26.3	45.39N	6.07E	5			¶97x4939
LDG	X	29 19 17 26.6	45.4N	6.1E		2.1L		
NEIC	Single network solution.							
ISC	**X**	**31 04 23 42.1**±.42	**44.28N**±.017	**6.46E**±.019	**8**±3.7	**4.4b**	**207**	**0-79**
EIDC	X	31 04 23 42.1	44.2N	6.4E	0	4.6L,4.3b		¶97x5125
NEIC	X	31 04 23 42.4	44.28N	6.48E	10			
LDG	X	31 04 23 43.7	44.2N	6.6E		4.7L		
MDD	X	31 04 23 43.8	44.24N	6.55E	7	3.8		
STR	X	31 04 23 43.8	44.26N	6.57E	2	4.8L		
NEIC	ML 4.2 (FUR), 4.1 (GEN).							
ISC	**X**	**31 04 25 43**±6.7	**44.2N**±.21	**6.5E**±.48	**5**±16		**12**	**1-2**
NEIC	X	31 04 25 43.8	44.25N	6.53E	10			¶97x5126
NEIC	M_L2.1(GEN), Single network solution.							
ISC	**X**	**31 04 34 51.4**±.42	**44.28N**±.024	**6.53E**±.038	**3**±6.2		**39**	**0-2**
LDG	X	31 04 34 52.0	44.3N	6.5E		2.2L		¶97x5128
NEIC	X	31 04 34 52.0	44.27N	6.56E	10			
NEIC	M_L2.4(GEN)							
NEIC	ML 2.1 (STR).							
ISC	**X**	**31 04 37 49.0**±.55	**44.26N**±.031	**6.50E**±.058	**10**		**25**	**0-1**
LDG	X	31 04 37 49.7	44.2N	6.6E		1.7L		¶97x5129
NEIC	X	31 04 37 49.7	44.25N	6.57E	10			
NEIC	M_L2.2(STR), M_L2.1(GEN).							
NEIC	ML 1.7 (LDG).							
ISC	**X**	**31 05 31 09.0**±.43	**44.28N**±.024	**6.53E**±.039	**1**±7.2		**38**	**0-2**
LDG	X	31 05 31 09.7	44.3N	6.5E		2.3L		¶97x5134
NEIC	X	31 05 31 09.7	44.26N	6.57E	10			
NEIC	M_L2.4(GEN)							
NEIC	ML 2.1 (STR).							
ISC	**X**	**31 05 40 33.7**±.65	**44.27N**±.032	**6.51E**±.070	**8**±7.1		**27**	**0-2**
NEIC	X	31 05 40 34.4	44.26N	6.57E	10			¶97x5135
LDG	X	31 05 40 34.8	44.3N	6.5E		1.7L		
NEIC	M_L2.1(GEN)							
NEIC	ML 1.7 (STR).							
ISC	**X**	**31 07 13 45.1**±.38	**44.28N**±.023	**6.54E**±.036	**5**±5.7		**42**	**0-2**
LDG	X	31 07 13 45.4	44.3N	6.5E		2.5L		¶97x5148
NEIC	X	31 07 13 45.5	44.28N	6.56E	10			
NEIC	M_L2.5(GEN)							
NEIC	ML 2.3 (STR).							
ISC	**X**	**31 07 15 19.0**±.40	**44.27N**±.022	**6.48E**±.025	**6**±4.1		**104**	**0-7**
NEIC	X	31 07 15 19.2	44.27N	6.49E	10			¶97x5149
STR	X	31 07 15 20.1	44.28N	6.54E	2	3.6L		
LDG	X	31 07 15 20.2	44.3N	6.6E		3.4L		
ROM	X	31 07 15 24.2	44.4N	6.8E	5	3.1D		
NEIC	M_L3.6(STR)							
ISC	**X**	**31 09 19 01**±5.8	**44.3N**±.17	**6.5E**±.43	**7**±17		**10**	**1-1**
NEIC	X	31 09 19 01.4	44.27N	6.50E	10			¶97x5160
NEIC	M_L2.2(GEN), Single network solution.							
ISC	**X**	**31 21 42 50**±8.2	**44.3N**±.22	**6.5E**±.59	**10**±23		**8**	**0-1**
NEIC	X	31 21 42 49.4	44.26N	6.51E	10			¶97x5230
NEIC	M_L2.1(GEN), Single network solution.							
ISC	**XI**	**01 05 50 51.2**±.35	**45.69N**±.019	**6.82E**±.037	**3**±4.1		**58**	**0-3**
NEIC	XI	01 05 50 52.0	45.68N	6.86E	10			¶97xi0035
ROM	XI	01 05 50 52.9	45.6N	6.9E	11	2.6D		
LDG	XI	01 05 50 52.9	45.7N	6.8E		2.6L		
NEIC	M_L2.7(STR)							
NEIC	ML 2.5 (GEN).							
ISC	**XI**	**01 06 00 05**±2.4	**45.68N**±.075	**6.9E**±.28	**10**		**6**	**0-1**
NEIC	XI	01 06 00 05.8	45.65N	6.86E	10			¶97xi0036
LDG	XI	01 06 00 05.9	45.6N	6.9E		1.6L		
NEIC	Single network solution.							
ISC	**XI**	**01 17 27 34.8**±.40	**44.29N**±.026	**6.49E**±.041	**4**±7.9		**35**	**0-3**
NEIC	XI	01 17 27 35.2	44.27N	6.50E	10			¶97xi0110
LDG	XI	01 17 27 35.4	44.3N	6.5E		1.9L		
NEIC	M_L2.2(GEN)							
ISC	**XI**	**01 18 33 22**±1.3	**45.65N**±.067	**6.7E**±.14	**5**		**7**	**0-2**
NEIC	XI	01 18 33 21.1	45.63N	7.02E	5			¶97xi0122
LDG	XI	01 18 33 22.1	45.6N	6.9E		2.0L		
NEIC	Less reliable solution.							
ISC	**XI**	**01 22 15 29**±1.2	**48.1N**±.11	**7.6E**±.11	**0**		**5**	**0-1**
LDG	XI	01 22 15 29.3	48.1N	7.7E		1.9L		¶97xi0148
ISC	**XI**	**02 13 05 41.2**±.67	**49.53N**±.081	**0.73W**±.099	**10**		**17**	**2-6**
STR	XI	02 13 05 44.0	49.51N	0.86W	10	3.7L		¶97xi0265
NEIC	XI	02 13 05 46.9	49.37N	0.07W	10			
NEIC	Less reliable solution.							
ISC	**XI**	**02 15 19 16.9**±.40	**44.28N**±.025	**6.53E**±.038	**4**±6.5		**38**	**0-2**
ROM	XI	02 15 19 16.5	44.3N	6.5E	18	2.4D		¶97xi0290
LDG	XI	02 15 19 17.4	44.3N	6.5E		2.2L		
NEIC	XI	02 15 19 17.6	44.27N	6.56E	10			
NEIC	M_L2.6(GEN)							
NEIC	ML 2.1 (STR).							
ISC	**XI**	**03 01 08 00.1**±.99	**44.18N**±.062	**7.00E**±.090	**10**		**12**	**0-1**
NEIC	XI	03 01 07 59.8	44.20N	7.09E	10			¶97xi0369
LDG	XI	03 01 08 00.5	44.2N	7.1E		1.4L		
NEIC	Single network solution.							
ISC	**XI**	**03 03 12 41.9**±.76	**44.28N**±.040	**6.5E**±.14	**5**		**8**	**0-1**
NEIC	XI	03 03 12 42.1	44.27N	6.53E	5			¶97xi0387
LDG	XI	03 03 12 42.9	44.3N	6.5E		1.3L		
NEIC	Single network solution.							
ISC	**XI**	**03 08 46 27.2**±.62	**44.30N**±.038	**6.42E**±.074	**5**		**14**	**0-1**
NEIC	XI	03 08 46 27.7	44.29N	6.45E	5			¶97xi0441
LDG	XI	03 08 46 28.4	44.3N	6.5E		1.8L		
NEIC	Single network solution.							
ISC	**XI**	**03 18 04 18.6**±.51	**44.86N**±.034	**6.66E**±.076	**5**		**19**	**0-2**
NEIC	XI	03 18 04 18.7	44.89N	6.72E	5			¶97xi0501
LDG	XI	03 18 04 19.0	44.9N	6.8E		2.3L		
NEIC	M_L2.0(STR).							
ISC	**XI**	**04 23 32 22.0**±.67	**44.88N**±.041	**6.72E**±.091	**5**		**10**	**0-1**
NEIC	XI	04 23 32 22.6	44.92N	6.75E	5			¶97xi0707
LDG	XI	04 23 32 22.9	44.9N	6.7E		1.9L		
NEIC	Single network solution.							
ISC	**XI**	**05 09 23 52**±2.3	**48.10N**±.073	**3.3W**±.21	**0**		**7**	**0-3**
LDG	XI	05 09 23 47.0	48.1N	3.9W		2.7L		¶97xi0762
ISC	**XI**	**05 22 05 14.3**±.93	**47.10N**±.078	**5.68E**±.087	**5**		**7**	**1-2**
NEIC	XI	05 22 05 15.1	47.09N	5.75E	5			¶97xi0872
LDG	XI	05 22 05 15.6	47.1N	5.7E		1.9L		
NEIC	Single network solution.							
ISC	**XI**	**06 12 39 47.1**±.44	**44.44N**±.021	**6.45E**±.029	**1**±4.5		**93**	**0-8**
NEIC	XI	06 12 39 47.5	44.42N	6.49E	5			¶97xi0978
STR	XI	06 12 39 48.8	44.41N	6.53E	2	3.7L		
ROM	XI	06 12 39 49.0	44.5N	6.5E	5	3.2D		
LDG	XI	06 12 39 49.1	44.4N	6.5E		3.6L		
ISC	**XI**	**08 03 26 58.0**±.44	**44.46N**±.031	**6.52E**±.051	**10**		**25**	**0-3**
LDG	XI	08 03 26 58.5	44.4N	6.5E		2.1L		¶97xi1204
NEIC	XI	08 03 26 58.8	44.41N	6.55E	10			
NEIC	M_L2.1(STR).							

ISC XI 08 04 31 57.9±.58 **44.43N**±.035 **6.47E**±.072 **10** **14 0-1**
NEIC XI 08 04 31 58.8 44.44N 6.53E 10 **¶97xi1213**
LDG XI 08 04 31 58.9 44.4N 6.5E 1.9L
NEIC M_L1.9(STR).
ISC XI 08 05 16 42.6±.79 **44.46N**±.041 **6.5E**±.13 **10** **9 0-1**
NEIC XI 08 05 16 43.4 44.47N 6.45E 10 **¶97xi1217**
LDG XI 08 05 16 43.9 44.5N 6.5E 1.9L
NEIC Single network solution.
ISC XI 08 09 25 49±1.6 **43.1N**±.22 **0.13E**±.096 **0** **5 0-2**
LDG XI 08 09 25 50.3 43.0N 0.2E 2.2L **¶97xi1246**
ISC Poorly determined
ISC XI 09 01 27 46.3±.40 **48.29N**±.032 **7.76E**±.038 **5** **33 0-3**
NEIC XI 09 01 27 47.5 48.26N 7.78E 5 **¶97xi1377**
LEDBW XI 09 01 27 47.7 48.29N 7.80E 5 2.0L
LDG XI 09 01 27 48.4 48.3N 7.7E 2.2L
NEIC M_L2.0(FBB).
NEIC ML 1.9 (STR).
ISC XI 10 05 54 06.1±.51 **44.41N**±.028 **6.52E**±.052 **6**±8.1 **27 0-1**
LDG XI 10 05 54 06.6 44.4N 6.5E 2.0L **¶97xi1567**
NEIC XI 10 05 54 06.7 44.41N 6.57E 10
NEIC M_L2.3(GEN)
NEIC ML 2.0 (STR).
ISC XI 10 13 48 53.6±.72 **44.28N**±.034 **6.49E**±.082 **2**±11 **18 0-1**
NEIC XI 10 13 48 53.8 44.27N 6.50E 5 **¶97xi1619**
LDG XI 10 13 48 54.5 44.3N 6.5E 2.3L
NEIC M_L2.0(GEN).
ISC XI 11 10 07 39.4±.64 **49.43N**±.045 **5.94E**±.068 **5** **16 1-4**
NEIC XI 11 10 07 40.6 49.57N 6.10E 5 **¶97xi1769**
LDG XI 11 10 07 41.3 49.5N 6.0E 2.4L
NEIC Single network solution.
ISC XI 12 05 03 47.0±.99 **46.15N**±.057 **2.82E**±.095 **5** **10 0-1**
LDG XI 12 05 03 48.0 46.1N 2.8E 1.6L **¶97xi1941**
NEIC XI 12 05 03 48.0 46.20N 2.80E 5
NEIC Single network solution.
ISC XI 12 09 19 27±1.3 **47.70N**±.093 **2.38W**±.087 **5** **7 1-2**
LDG XI 12 09 19 28.3 47.7N 2.4W 2.7L **¶97xi1961**
NEIC XI 12 09 19 29.1 47.81N 2.51W 5
NEIC Single network solution.
ISC XI 12 15 01 01.6±.95 **47.97N**±.089 **5.69E**±.087 **10** **12 0-3**
LDG XI 12 15 01 02.0 48.1N 5.7E 2.5L **¶97xi1999**
NEIC XI 12 15 01 04.4 48.02N 5.91E 10
ISC XI 13 04 53 24.2±.54 **48.17N**±.045 **7.67E**±.052 **10** **21 0-3**
NEIC XI 13 04 53 24.6 48.16N 7.67E 10 **¶97xi2079**
LEDBW XI 13 04 53 24.7 48.17N 7.67E 11 1.7L
LDG XI 13 04 53 26.0 48.2N 7.6E 2.2L
NEIC M_L1.7(FBB).
ISC XI 14 13 53 07±1.3 **45.8N**±.12 **5.33E**±.086 **5** **6 1-2**
NEIC XI 14 13 53 06.6 45.84N 5.32E 5 **¶97xi2294**
LDG XI 14 13 53 07.5 45.8N 5.3E 2.2L
NEIC M_L2.5(STR)
ISC XI 14 14 20 41±1.0 **45.20N**±.059 **6.6E**±.17 **5** **5 0-1**
NEIC XI 14 14 20 40.6 45.20N 6.64E 5 **¶97xi2297**
LDG XI 14 14 20 40.9 45.2N 6.7E
NEIC Poor solution.
ISC XI 14 23 36 32.0±.88 **46.60N**±.060 **2.13E**±.074 **5** **15 0-2**
LDG XI 14 23 36 33.8 46.6N 2.2E 2.6L **¶97xi2377**
NEIC XI 14 23 36 34.2 46.57N 2.28E 5
NEIC M_L2.5(STR).
ISC XI 14 23 52 00.3±.79 **46.60N**±.044 **2.15E**±.052 **3**±7.6 **29 0-4**
NEIC XI 14 23 52 00.9 46.58N 2.14E 5 **¶97xi2382**
LDG XI 14 23 52 02.2 46.6N 2.2E 3.0L
STR XI 14 23 52 03.5 46.50N 2.27E 10 3.3L
NEIC M_L3.3(STR)
ISC XI 16 03 13 53.1±.99 **46.48N**±.067 **1.97E**±.088 **5**±17 **11 0-2**
LDG XI 16 03 13 54.7 46.4N 2.0E 2.0L **¶97xi2589**
NEIC XI 16 03 13 55.5 46.44N 2.07E 10
ISC XI 17 05 26 41±3.5 **49.0N**±.29 **1.6W**±.11 **5** **5 1-1**
NEIC XI 17 05 26 42.1 48.96N 1.51W 5 **¶97xi2744**
LDG XI 17 05 26 42.7 49.0N 1.5W 2.4L
NEIC Single network solution.
ISC XI 17 10 32 05±1.0 **45.24N**±.086 **6.4E**±.12 **5** **5 0-1**
NEIC XI 17 10 32 05.5 45.23N 6.48E 5 **¶97xi2778**
LDG XI 17 10 32 05.8 45.2N 6.5E 2.2L
NEIC Single network solution.
ISC XI 17 10 39 10.2±.99 **45.25N**±.087 **6.4E**±.13 **2**±21 **6 0-3**
NEIC XI 17 10 39 10.4 45.24N 6.50E 5 **¶97xi2780**
LDG XI 17 10 39 10.7 45.2N 6.5E 2.0L
NEIC Single network solution.
ISC XI 17 13 54 53±5.3 **48.1N**±.54 **5.2E**±.29 **0** **8 1-2**
LDG XI 17 13 54 53.4 48.2N 5.2E 2.4L **¶97xi2810**
ISC XI 17 16 54 38±2.6 **47.4N**±.13 **6.5E**±.18 **10** **7 0-1**
NEIC XI 17 16 54 37.8 47.41N 6.43E 10 **¶97xi2832**
NEIC M_L2.0(STR), Single network solution.
NEIC XI 19 10 35 11.4 **43.73N** **2.28E** **5** **0-2**
LDG XI 19 10 35 11.8 43.7N 2.2E 2.3L **¶97xi3193**
NEIC Poor solution.
ISC XI 20 03 56 06±1.3 **44.68N**±.054 **6.9E**±.18 **5** **7 0-1**
NEIC XI 20 03 56 06.7 44.73N 6.85E 5 **¶97xi3388**
LDG XI 20 03 56 07.5 44.7N 6.8E 1.8L
NEIC Single network solution.
ISC XI 20 16 03 11.8±.94 **45.17N**±.051 **6.7E**±.18 **5** **6 0-2**
LDG XI 20 16 03 12.5 45.2N 6.7E 2.1L **¶97xi3489**
NEIC XI 20 16 03 12.8 45.24N 6.62E 5
NEIC Single network solution.
ISC XI 22 16 27 25.4±.91 **44.01N**±.042 **6.7E**±.14 **10** **13 0-2**
LDG XI 22 16 27 26.4 44.0N 6.5E 1.9L **¶97xi3912**
NEIC XI 22 16 27 26.4 43.96N 6.61E 10
NEIC M_L2.2(STR)
ISC XI 23 12 24 39.9±.50 **48.05N**±.045 **6.89E**±.048 **10** **21 0-3**
LEDBW XI 23 12 24 39.8 48.08N 6.86E 10 2.0L **¶97xi4118**
NEIC XI 23 12 24 40.7 48.07N 6.96E 5
LDG XI 23 12 24 40.8 48.1N 7.0E 2.1L
NEIC M_L2.0(FBB).
ISC XI 25 13 20 02.1±.78 **46.82N**±.065 **1.5W**±.12 **4**±10 **24 1-5**
LDG XI 25 13 20 05.2 46.9N 1.4W 3.5L **¶97xi4521**
NEIC XI 25 13 20 06.1 47.01N 1.10W 10
STR XI 25 13 20 07.0 46.89N 1.23W 2 3.7L
ISC XI 25 23 55 15.2±.51 **44.40N**±.029 **6.45E**±.043 **4**±5.6 **34 0-4**
NEIC XI 25 23 55 15.6 44.40N 6.48E 5 **¶97xi4599**
LDG XI 25 23 55 17.0 44.4N 6.5E 2.7L
ROM XI 25 23 55 18.4 44.5N 6.7E 13 2.6D
NEIC M_L2.9(GEN)
ISC XI 27 02 21 20.3±.59 **44.29N**±.033 **6.49E**±.061 **0** **19 0-1**
NEIC XI 27 02 21 20.7 44.29N 6.53E 5 **¶97xi4781**
LDG XI 27 02 21 21.7 44.3N 6.5E 2.1L
NEIC M_L2.3(GEN)
NEIC Mining induced event in the Gardanne area.
ISC XI 27 22 36 18.2±.77 **44.78N**±.044 **6.61E**±.084 **5**±17 **12 0-1**
NEIC XI 27 22 36 18.6 44.81N 6.64E 5 **¶97xi4951**
LDG XI 27 22 36 19.2 44.8N 6.6E 1.7L
ISC XII 03 09 16 01±3.2 **44.71N**±.090 **6.7E**±.34 **5** **5 0-1**
NEIC XII 03 09 16 00.9 44.71N 6.72E 5 **¶97xii0396**
NEIC M_L1.7(GEN), Single network solution.
ISC XII 03 13 59 26±1.6 **44.81N**±.061 **6.8E**±.19 **12**±8.8 **11 0-1**
NEIC XII 03 13 59 26.2 44.79N 6.82E 5 **¶97xii0434**
NEIC M_L2.4(GEN), Single network solution.
ISC XII 05 05 16 22±1.8 **47.27N**±.066 **6.2E**±.20 **10**±17 **9 0-2**
LDG XII 05 05 16 24.0 47.3N 6.5E 2.0L **¶97xii0780**
NEIC XII 05 05 16 24.8 47.36N 6.52E 10
NEIC Poor solution.
ISC XII 05 05 20 24.2±.79 **47.22N**±.049 **6.4E**±.10 **14**±14 **12 0-2**
LDG XII 05 05 20 25.6 47.3N 6.6E 2.0L **¶97xii0781**
NEIC XII 05 05 20 26.6 47.33N 6.67E 10
NEIC Single network solution.
ISC XII 05 05 21 23.9±.70 **47.23N**±.049 **6.46E**±.083 **14**±14 **12 0-2**
LDG XII 05 05 21 25.2 47.3N 6.6E 2.1L **¶97xii0782**
NEIC XII 05 05 21 26.1 47.34N 6.73E 10
NEIC Single network solution.
ISC XII 05 05 22 48.2±.73 **47.24N**±.044 **6.42E**±.086 **9**±11 **15 0-2**
LDG XII 05 05 22 49.5 47.3N 6.5E 2.2L **¶97xii0783**
NEIC XII 05 05 22 50.5 47.34N 6.66E 10
NEIC Single network solution.
LDG XII 05 05 23 05.8 **47.2N** **6.5E** **2.2L** **¶97xii0784**
ISC XII 05 05 28 02.8±.74 **47.23N**±.045 **6.43E**±.081 **13**±14 **15 0-2**
LDG XII 05 05 28 04.2 47.3N 6.5E 2.1L **¶97xii0785**
NEIC XII 05 05 28 05.2 47.35N 6.61E 10
NEIC Single network solution.
ISC XII 05 06 05 21.7±.52 **45.74N**±.044 **5.46E**±.054 **10** **22 1-3**
LDG XII 05 06 05 23.0 45.7N 5.4E 2.5L **¶97xii0793**
NEIC XII 05 06 05 23.9 45.58N 5.48E 10
NEIC M_L2.2(STR).
ISC XII 05 17 29 38.7±.42 **44.81N**±.029 **6.61E**±.049 **7**±6.1 **31 0-3**
NEIC XII 05 17 29 39.2 44.84N 6.68E 10 **¶97xii0987**
ROM XII 05 17 29 39.8 44.9N 6.8E 11 2.0D
LDG XII 05 17 29 39.8 44.8N 6.7E 2.5L
NEIC M_L2.4(GEN).
NEIC ML 2.1 (STR).
ISC XII 06 06 02 05.0±.61 **44.28N**±.033 **6.45E**±.066 **1**±12 **20 1-1**
NEIC XII 06 06 02 05.5 44.27N 6.49E 5 **¶97xii1269**
LDG XII 06 06 02 06.1 44.3N 6.5E 1.7L
ISC XII 06 07 22 01.6±.94 **45.73N**±.073 **5.5E**±.10 **10** **12 1-2**
LDG XII 06 07 22 02.7 45.7N 5.5E 2.0L **¶97xii1289**
NEIC XII 06 07 22 03.4 45.61N 5.52E 10
NEIC Single network solution.
ISC XII 06 13 35 51.4±.67 **45.44N**±.038 **0.68W**±.072 **5** **20 1-4**
LDG XII 06 13 35 55.1 45.4N 0.6W 2.5L **¶97xii1430**
STR XII 06 13 35 57.4 45.31N 0.38W 2 3.1L
NEIC XII 06 13 35 59.7 45.35N 0.32W 5
ISC XII 07 16 04 12.2±.83 **45.46N**±.053 **6.79E**±.088 **5** **14 0-3**
LDG XII 07 16 04 11.5 45.6N 6.8E 1.8L **¶97xii1731**
NEIC XII 07 16 04 11.9 45.51N 6.82E 5
ISC XII 08 09 46 43±2.4 **44.52N**±.091 **6.8E**±.25 **7**±14 **9 0-1**
NEIC XII 08 09 46 43.0 44.53N 6.85E 10 **¶97xii1906**
NEIC M_L2.0(GEN), Single network solution.
ISC XII 08 17 54 12.7±.58 **47.99N**±.071 **6.45E**±.066 **27**±7.2 **26 0-3**
NEIC XII 08 17 54 12.6 47.98N 6.43E 20 **¶97xii1978**
LDG XII 08 17 54 13.2 48.0N 6.5E 2.5L
LEDBW XII 08 17 54 14.2 47.99N 6.56E 10 2.2L
NEIC M_L2.2(STR).
ISC XII 08 18 21 59.6±.61 **45.31N**±.047 **5.94E**±.060 **5** **17 0-3**
LDG XII 08 18 22 01.0 45.3N 6.0E 2.1L **¶97xii1982**
NEIC XII 08 18 22 01.2 45.21N 6.05E 5
NEIC Single network solution.
ISC XII 09 15 35 46±6.1 **47.3N**±.31 **6.3E**±.33 **10** **5 0-1**
NEIC XII 09 15 35 45.9 47.22N 6.35E 10 **¶97xii2195**
NEIC M_L1.8(STR), Poor solution.
ISC XII 11 02 29 51.7±.77 **45.62N**±.048 **0.7W**±.10 **5** **25 1-4**
NEIC XII 11 02 29 51.6 45.61N 0.72W 5 **¶97xii2471**
LDG XII 11 02 29 52.2 45.7N 0.9W 2.9L
STR XII 11 02 29 53.2 45.62N 0.73W 2 3.1L
ISC XII 12 16 08 35.0±.54 **44.70N**±.035 **6.71E**±.060 **7**±10 **17 0-1**
NEIC XII 12 16 08 35.4 44.73N 6.77E 5 **¶97xii2779**
LDG XII 12 16 08 35.5 44.7N 6.8E 1.9L
NEIC M_L2.2(GEN)
NEIC ML 1.8 (STR).
ISC XII 12 17 15 33.3±.91 **46.29N**±.066 **0.97E**±.077 **5** **13 1-2**
LDG XII 12 17 15 34.9 46.3N 0.9E 2.4L **¶97xii2789**
NEIC XII 12 17 15 35.3 46.25N 0.82E 5
NEIC M_L2.8(STR)
ISC XII 13 02 39 01.6±.52 **43.07N**±.048 **0.17E**±.042 **12**±13 **24 0-4**
NEIC XII 13 02 39 03.1 43.00N 0.12E 5 **¶97xii2863**
LDG XII 13 02 39 03.2 43.1N 0.1E 2.5L
MDD XII 13 02 39 03.5 43.0N 0.2E 2 2.2b
NEIC XII 13 06 27 14.7 **47.74N** **2.97W** **5** **0-2**
LDG XII 13 06 27 13.5 47.7N 2.9W 1.9L **¶97xii2901**
NEIC Single network solution.
ISC XII 14 07 21 43.6±.51 **44.80N**±.034 **6.57E**±.060 **12**±7.8 **19 0-2**
NEIC XII 14 07 21 44.5 44.80N 6.65E 5 **¶97xii3110**
LDG XII 14 07 21 45.1 44.8N 6.6E 2.1L
ISC XII 15 18 35 27±1.7 **44.57N**±.077 **7.0E**±.21 **14**±8.9 **10 0-1**
NEIC XII 15 18 35 26.7 44.57N 7.00E 10 **¶97xii3321**
NEIC M_L2.3(GEN), Single network solution.
ISC XII 16 14 23 18.0±.83 **45.82N**±.064 **5.37E**±.086 **10** **8 1-2**
LDG XII 16 14 23 18.9 45.8N 5.3E 2.1L **¶97xii3462**
NEIC XII 16 14 23 18.9 45.81N 5.37E 10
NEIC M_L2.5(STR)
ISC XII 17 07 07 42.9±.81 **45.48N**±.053 **6.50E**±.084 **5** **10 0-2**
NEIC XII 17 07 07 43.8 45.46N 6.58E 5 **¶97xii3569**
LDG XII 17 07 07 44.1 45.5N 6.6E 2.5L
NEIC Single network solution.

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII 17 07 35 43**±2.0	**44.53N**±.091	**7.0E**±.26	**10**±12		**7**	**0-1**
NEIC	XII 17 07 35 43.1	44.53N	6.95E	5			**¶97xii3573**
NEIC	M_L2.0(GEN), Single network solution.						
ISC	**XII 17 13 55 04.5**±.67	**45.08N**±.043	**6.66E**±.069	**8**±11		**14**	**0-2**
NEIC	XII 17 13 55 05.0	45.09N	6.72E	5			**¶97xii3610**
LDG	XII 17 13 55 05.2	45.1N	6.8E		2.0L		
NEIC	M_L2.2(GEN)						
ISC	**XII 18 13 09 35.0**±.54	**44.27N**±.028	**6.48E**±.047	**4**±5.7		**36**	**0-4**
NEIC	XII 18 13 09 35.1	44.26N	6.49E	5			**¶97xii3766**
LDG	XII 18 13 09 36.5	44.3N	6.6E		2.7L		
ISC	**XII 19 03 41 25.9**±.53	**44.35N**±.028	**6.77E**±.066	**7**±7.5		**25**	**0-2**
NEIC	XII 19 03 41 26.1	44.35N	6.80E	5			**¶97xii3887**
LDG	XII 19 03 41 26.8	44.4N	6.8E		2.2L		
NEIC	M_L2.0(STR).						
ISC	**XII 20 09 30 59.5**±.73	**49.44N**±.053	**5.97E**±.080	**10**		**17**	**1-4**
LDG	XII 20 09 31 01.0	49.5N	6.0E		2.4L		**¶97xii4102**
NEIC	XII 20 09 31 01.1	49.55N	6.06E	10			
NEIC	Single network solution.						
ISC	**XII 20 11 48 00.1**±.91	**46.95N**±.036	**5.9E**±.11	**10**±14		**30**	**0-3**
NEIC	XII 20 11 48 01.2	46.98N	5.79E	10			**¶97xii4111**
LDG	XII 20 11 48 01.6	47.0N	5.9E		2.7L		
NEIC	M_L2.6(STR).						
ISC	**XII 22 12 58 18.6**±.78	**48.18N**±.071	**7.69E**±.073	**0**		**10**	**0-3**
LDG	XII 22 12 58 19.3	48.2N	7.7E		2.1L		**¶97xii4424**
ISC	**XII 22 16 00 47.7**±.52	**44.67N**±.034	**6.69E**±.064	**12**±6.8		**22**	**0-1**
NEIC	XII 22 16 00 48.2	44.68N	6.77E	5			**¶97xii4446**
LDG	XII 22 16 00 49.1	44.7N	6.7E		2.1L		
NEIC	M_L2.2(GEN)						
NEIC	ML 1.9 (STR).						
ISC	**XII 22 20 15 36**±1.3	**44.89N**±.083	**6.6E**±.15	**5**		**6**	**0-2**
NEIC	XII 22 20 15 35.4	44.89N	6.60E	5			**¶97xii4480**
LDG	XII 22 20 15 35.8	44.9N	6.6E		1.7L		
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**XII 23 10 41 34.1**±.97	**45.36N**±.080	**5.64E**±.087	**1**±22		**11**	**0-3**
NEIC	XII 23 10 41 35.1	45.31N	5.71E	5			**¶97xii4583**
LDG	XII 23 10 41 35.2	45.3N	5.7E		1.9L		
NEIC	Single network solution.						
ISC	**XII 24 07 13 29**±2.6	**45.48N**±.085	**6.7E**±.32	**10**±32		**6**	**0-2**
NEIC	XII 24 07 13 29.2	45.46N	6.70E	5			**¶97xii4716**
LDG	XII 24 07 13 29.5	45.5N	6.7E		1.7L		
ISC	Poorly determined						
NEIC	Single network solution.						
ISC	**XII 24 17 02 02**±3.8	**47.3N**±.21	**2.8E**±.20	**5**		**11**	**1-3**
NEIC	XII 24 17 02 00.1	47.40N	2.71E	5			**¶97xii4788**
LDG	XII 24 17 02 00.4	47.4N	2.7E		2.2L		
NEIC	M_L2.7(STR) Less reliable solution.						
ISC	**XII 25 16 52 53.6**±.49	**44.13N**±.029	**6.83E**±.052	**6**±10		**25**	**0-2**
NEIC	XII 25 16 52 54.1	44.12N	6.88E	5			**¶97xii4960**
LDG	XII 25 16 52 54.7	44.1N	6.8E		2.0L		
NEIC	M_L2.3(GEN)						
NEIC	ML 1.6 (STR).						
ISC	**XII 26 10 30 07.8**±.75	**45.78N**±.069	**5.29E**±.092	**10**		**10**	**1-2**
LDG	XII 26 10 30 09.4	45.8N	5.3E		1.9L		**¶97xii5105**
NEIC	XII 26 10 30 10.2	45.71N	5.33E	10			
NEIC	Single network solution.						
ISC	**XII 26 14 49 00**±1.2	**45.72N**±.092	**5.3E**±.12	**10**		**8**	**1-2**
LDG	XII 26 14 49 01.8	45.7N	5.3E		1.9L		**¶97xii5150**
NEIC	XII 26 14 49 02.0	45.68N	5.24E	10			
NEIC	Single network solution.						
ISC	**XII 26 14 54 29**±1.4	**45.8N**±.10	**5.3E**±.14	**5**		**6**	**1-2**
NEIC	XII 26 14 54 29.5	45.78N	5.33E	5			**¶97xii5152**
LDG	XII 26 14 54 29.9	45.8N	5.3E		1.9L		
ISC	Poorly determined						
NEIC	Poor solution.						
ISC	**XII 27 01 49 41.9**±.40	**44.84N**±.025	**6.64E**±.042	**7**±5.0		**43**	**0-3**
NEIC	XII 27 01 49 42.0	44.85N	6.66E	5			**¶97xii5225**
ROM	XII 27 01 49 42.4	44.8N	6.8E	5	2.2D		
LDG	XII 27 01 49 42.7	44.8N	6.7E		2.5L		
NEIC	ML 2.5 (GEN), , 2.5 (STR).						
ISC	**XII 27 18 45 38.2**±.54	**44.32N**±.035	**6.48E**±.059	**2**±11		**19**	**0-3**
NEIC	XII 27 18 45 38.5	44.31N	6.50E	5			**¶97xii5333**
LDG	XII 27 18 45 38.8	44.3N	6.4E		2.1L		
NEIC	M_L2.2(STR)						
ISC	**XII 27 22 18 15.0**±.47	**44.87N**±.032	**6.85E**±.065	**12**±6.6		**23**	**0-2**
NEIC	XII 27 22 18 15.4	44.89N	6.94E	5			**¶97xii5358**
LDG	XII 27 22 18 15.6	44.9N	6.9E		2.3L		
NEIC	M_L2.4(GEN)						
ISC	**XII 28 02 55 48.2**±.90	**46.40N**±.069	**1.38E**±.078	**10**		**12**	**1-2**
LDG	XII 28 02 55 49.8	46.4N	1.4E		1.8L		**¶97xii5383**
NEIC	XII 28 02 55 50.6	46.37N	1.38E	10			
NEIC	Single network solution.						
ISC	**XII 28 19 22 37.9**±.65	**44.32N**±.039	**6.36E**±.082	**10**		**12**	**0-1**
NEIC	XII 28 19 22 38.8	44.32N	6.39E	10			**¶97xii5486**
LDG	XII 28 19 22 39.3	44.3N	6.4E		1.7L		
NEIC	Single network solution.						
LEDBW	**XII 28 22 22 44.4**	**48.00N**	**7.98E**	**10**	**0.8L**		**¶97xii5502**
ISC	**XII 30 09 03 10.0**±.53	**44.26N**±.028	**6.51E**±.045	**8**±5.5		**35**	**0-4**
NEIC	XII 30 09 03 10.1	44.26N	6.53E	5			**¶97xii5709**
LDG	XII 30 09 03 11.1	44.3N	6.6E		2.6L		
NEIC	M_L2.8(GEN)						
NEIC	ML 2.4 (STR).						
ISC	**XII 30 09 52 06**±1.2	**45.88N**±.092	**5.4E**±.10	**10**		**7**	**1-2**
LDG	XII 30 09 52 07.1	45.9N	5.4E		2.0L		**¶97xii5717**
NEIC	XII 30 09 52 07.2	45.88N	5.40E	10			
NEIC	Single network solution.						
ISC	**XII 30 14 26 18**±1.2	**45.79N**±.095	**5.3E**±.12	**10**		**7**	**1-2**
LDG	XII 30 14 26 20.2	45.8N	5.3E		2.1L		**¶97xii5745**
NEIC	XII 30 14 26 20.2	45.76N	5.28E	10			
NEIC	Single network solution.						
ISC	**XII 30 16 21 54.4**±.48	**44.52N**±.032	**6.98E**±.070	**12**±7.2		**21**	**0-1**
NEIC	XII 30 16 21 54.9	44.54N	7.06E	10			**¶97xii5757**
LDG	XII 30 16 21 55.4	44.5N	7.0E		1.9L		
NEIC	M_L2.2(GEN)						
ISC	**XII 30 16 55 51.4**±.51	**44.51N**±.034	**6.99E**±.070	**12**±7.1		**19**	**0-1**
NEIC	XII 30 16 55 51.9	44.53N	7.08E	10			**¶97xii5761**
LDG	XII 30 16 55 53.0	44.5N	6.9E		1.7L		
NEIC	M_L2.1(GEN)						
ISC	**XII 30 18 20 35**±6.6	**44.51N**±.099	**6.9E**±.63	**9**±14		**8**	**0-1**
NEIC	XII 30 18 20 35.3	44.51N	6.94E	10			**¶97xii5771**
NEIC	M_L2.1(GEN), Single network solution.						
ISC	**XII 31 00 00 52**±1.5	**46.0N**±.11	**6.0E**±.12	**10**		**9**	**1-2**
LDG	XII 31 00 00 53.3	45.9N	6.1E		2.0L		**¶97xii5801**
NEIC	XII 31 00 00 54.1	45.90N	6.16E	10			
NEIC	Single network solution.						
LDG	**XII 31 12 52 38.0**	**43.4N**	**2.3E**		**2.1L**		**¶97xii5899**

(539) Bay of Biscay.

ISC	**IX 17 13 13 14**±6.0	**47.0N**±.17	**4.3W**±.67	**10**		**10**	**1-5**
NEIC	IX 17 13 13 13.3	46.94N	4.38W	10			**¶97ix2510**
LDG	IX 17 13 13 14.6	47.0N	4.5W		3.1L		
NEIC	Poor solution.						
ISC	**XII 01 01 59 42**±3.8	**46.7N**±.19	**2.8W**±.22	**0**		**8**	**1-3**
LDG	XII 01 01 59 43.2	46.7N	3.0W		2.6L		**¶97xii0010**
ISC	**XII 30 16 05 51**±8.1	**46.6N**±.57	**2.1W**±.54	**0**		**8**	**1-3**
LDG	XII 30 16 05 53.8	46.6N	2.0W		2.2L		**¶97xii5753**
ISC	Poorly determined						

(540) The Netherlands.

ISC	**VIII 14 23 51 48.8**±.68	**51.27N**±.063	**5.58E**±.062	**18**		**32**	**1-9**
NEIC	VIII 14 23 51 47.3	51.30N	5.47E	5			**¶97viii2132**
UCC	VIII 14 23 51 51.1	51.25N	5.79E	18	2.3L		
LDG	VIII 14 23 51 51.7	51.2N	5.6E		2.9L		
SZGRF	VIII 14 23 51 53.4	51.3N	6.0E	1	2.3L		
ISC	**VIII 15 00 00 02**±1.1	**51.25N**±.070	**5.8E**±.11	**14**±9.6		**20**	**0-5**
NEIC	VIII 15 00 00 02.2	51.24N	5.81E	5			**¶97viii2134**
UCC	VIII 15 00 00 04.4	51.23N	5.83E	14	2.0L		
LDG	VIII 15 00 00 05.3	51.1N	5.6E		2.5L		
NEIC	Less reliable solution.						

(541) Belgium.

UCC	**VII 05 01 08 14.7**	**50.80N**	**5.68E**	**10**	**1.7L**		**¶97vii0651**

(542) Denmark.

ISC	**VIII 19 05 29 37.4**±.87	**55.77N**±.086	**11.8E**±.17	**46**±24		**14**	**0-9**
BER	VIII 19 05 29 41.1	55.8N	11.8E	30	3.3D,1.9L		**¶97viii2765**
SZGRF	VIII 19 05 29 49.6	54.4N	12.9E	1	2.6L		
ISC	**IX 20 14 21 36**±3.9	**57.5N**±.36	**10.6E**±.16	**15**		**8**	**3-14**
BER	IX 20 14 21 36.4	57.5N	11.0E	15	3.1L		**¶97ix2951**
EIDC	IX 20 14 21 37.4	57.6N	10.7E	0	3.2L		
ISC	**XI 15 16 12 28**±2.3	**56.3N**±.11	**10.6E**±.64	**10**		**4**	**4-10**
EIDC	XI 15 16 12 29.6	56.3N	10.6E	0	3.9L		**¶97xi2504**
ISC	Poorly determined						
EIDC	**XI 20 07 01 16.8**	**55.9N**	**11.2E**	**0**	**3.2L**		**¶97xi3413**
BER	**XII 26 17 28 13.4**	**57.4N**	**9.1E**	**17**	**2.7D,2.1L**		**¶97xii5180**

(543) Germany.

BUG	**VII 01 02 03 05.2**	**51.7N**	**7.9E**	**1**	**1.7L**		**¶97vii0009**
BUG	Mining induced event						
BUG	**VII 02 10 33 55.7**	**51.6N**	**7.6E**	**1**	**1.1L**		**¶97vii0226**
BUG	Mining induced event						
BUG	**VII 03 01 59 12.7**	**51.7N**	**7.0E**	**1**	**1.4L**		**¶97vii0336**
BUG	Mining induced event						
BUG	**VII 03 08 28 16.2**	**51.6N**	**6.7E**	**1**	**1.5L**		**¶97vii0378**
BUG	Mining induced event						
BUG	**VII 03 11 04 32.8**	**51.7N**	**7.9E**	**1**	**1.9L**		**¶97vii0400**
BUG	Mining induced event						
BUG	**VII 03 12 06 42.0**	**51.5N**	**7.1E**	**1**	**1.0L**		**¶97vii0407**
BUG	Mining induced event						
UCC	**VII 04 08 53 17.9**	**50.66N**	**6.05E**	**10**	**1.8L**		**¶97vii0529**
UCC	**VII 04 13 23 59.2**	**50.61N**	**6.75E**	**10**	**2.6L**		**¶97vii0565**
ISC	**VII 04 20 04 51**±3.6	**50.7N**±.10	**9.9E**±.44	**0**		**4**	**1-1**
SZGRF	VII 04 20 04 53.6	50.8N	9.9E	1	1.0L		**¶97vii0613**
ISC	Poorly determined						
SZGRF	Possibly mining induced						
ISC	**VII 04 20 13 32.3**±.78	**50.74N**±.064	**10.13E**±.082	**0**		**14**	**1-4**
SZGRF	VII 04 20 13 36.0	50.8N	10.0E	1	2.4L		**¶97vii0614**
SZGRF	Possibly mining induced						
BUG	**VII 07 11 24 08.8**	**51.6N**	**7.0E**	**1**	**1.3L**		**¶97vii1032**
BUG	Mining induced event						
LEDBW	**VII 08 19 41 29.3**	**49.16N**	**6.96E**	**1**	**1.8L**		**¶97vii1228**
LEDBW	Mining induced event						
SZGRF	**VII 10 00 09 03.5**	**51.7N**	**7.8E**	**1**	**1.9L**		**¶97vii1413**
SZGRF	Mining induced						
BUG	**VII 10 16 44 08.9**	**51.5N**	**7.1E**	**1**	**1.1L**		**¶97vii1538**
BUG	Mining induced event						
ISC	**VII 11 16 16 48**±1.0	**51.6N**±.11	**7.83E**±.093	**0**		**7**	**0-3**
BUG	VII 11 16 16 48.6	51.7N	7.7E	1	2.4L		**¶97vii1704**
SZGRF	VII 11 16 16 49.9	51.6N	7.8E	1	2.4L		
BUG	Mining induced event						
BUG	**VII 12 03 18 27.2**	**51.5N**	**7.1E**	**1**	**1.0L**		**¶97vii1769**
BUG	Mining induced event						
ISC	**VII 12 14 07 45**±1.3	**51.55N**±.082	**6.7E**±.18	**0**		**4**	**0-1**
BUG	VII 12 14 07 44.0	51.6N	6.7E	1	1.8L		**¶97vii1826**
ISC	Poorly determined						
BUG	Mining induced event						
BUG	**VII 12 19 34 45.9**	**51.7N**	**7.7E**	**1**	**1.5L**		**¶97vii1860**
BUG	Mining induced event						
BUG	**VII 16 11 42 33.4**	**51.5N**	**6.5E**	**1**	**1.6L**		**¶97vii2438**
BUG	Mining induced event						
BUG	**VII 16 11 43 02.0**	**51.5N**	**6.5E**	**1**	**1.3L**		**¶97vii2439**
BUG	Mining induced event						
BUG	**VII 16 19 48 06.5**	**51.7N**	**7.8E**	**1**	**1.5L**		**¶97vii2486**
BUG	Mining induced event						
ISC	**VII 17 14 31 23**±1.1	**51.45N**±.063	**10.4E**±.14	**0**		**12**	**0-3**
SZGRF	VII 17 14 31 24.2	51.5N	10.4E	1	2.4L		**¶97vii2607**
SZGRF	Mining induced						
BUG	**VII 18 05 24 59.9**	**51.7N**	**7.7E**	**1**	**1.6L**		**¶97vii2697**
BUG	Mining induced event						
BUG	**VII 20 19 40 31.5**	**51.6N**	**7.7E**	**1**	**0.8L**		**¶97vii3143**
BUG	Mining induced event						
BUG	**VII 21 10 43 03.8**	**51.5N**	**7.0E**	**1**	**0.8L**		**¶97vii3231**
BUG	Mining induced event						

UCC VII 22 00 22 37.0 50.93N 6.53E 2 1.9L ¶97vii3302
BUG VII 22 01 06 54.4 51.7N 7.8E 1 1.7L ¶97vii3307
BUG Mining induced event
BUG VII 22 14 11 53.3 51.7N 7.9E 1 1.9L ¶97vii3384
BUG Mining induced event
BUG VII 23 10 03 19.9 51.7N 7.8E 1 1.5L ¶97vii3513
BUG Mining induced event
EIDC VII 24 10 47 03.7 51.9N 14.9E 0 3.3L 3-11 ¶97vii3661
BUG VII 25 01 54 12.9 51.5N 7.1E 1 1.0L ¶97vii3753
BUG Mining induced event
SZGRF VII 25 07 19 09.0 49.7N 7.3E 1.8L ¶97vii3788
ISC VII 25 15 24 46.8±.62 49.35N±.037 6.92E±.093 0 16 0-3
LEDBW VII 25 15 24 48.1 49.38N 6.91E 1 2.1L **¶97vii3839**
NEIC VII 25 15 24 48.2 49.38N 6.92E 5
LEDBW Mining induced event
NEIC M_L2.3(UCC), Less reliable solution.
NEIC Mining induced event in the Lorraine region, France.
ISC VII 25 18 50 23±1.1 50.4N±.12 8.03E±.092 0 6 0-2
SZGRF VII 25 18 50 24.1 50.2N 8.0E 1.8L **¶97vii3861**
ISC VII 26 01 17 46.2±.85 51.54N±.072 7.77E±.078 0 18 0-6
BUG VII 26 01 17 47.2 51.7N 7.7E 1 2.2L **¶97vii3896**
NEIC VII 26 01 17 48.0 51.54N 7.62E 10
LDG VII 26 01 17 48.6 51.7N 7.8E 2.7L
SZGRF VII 26 01 17 49.6 51.6N 7.8E 1 2.3L
BUG Mining induced event
NEIC M_L2.5(UCC), Less reliable solution.
BUG VII 27 12 59 24.0 51.7N 7.7E 1 1.8L ¶97vii4110
BUG Mining induced event
BUG VII 27 21 23 03.3 51.6N 7.2E 1 1.2L ¶97vii4164
BUG Mining induced event
BUG VII 27 23 38 26.6 51.6N 7.6E 1 0.6L ¶97vii4179
BUG Mining induced event
BUG VII 29 22 54 00.1 51.7N 7.9E 1 1.8L ¶97vii4497
SZGRF VII 29 22 54 02.6 51.7N 7.9E 1 2.0L
BUG Mining induced event
ISC VII 30 00 40 19.5±.66 49.75N±.039 6.62E±.074 6±8.3 26 0-5
NEIC VII 30 00 40 20.4 49.77N 6.70E 10 **¶97vii4510**
SZGRF VII 30 00 40 21.5 49.8N 6.8E 10 1.9L
LDG VII 30 00 40 24.5 49.7N 6.6E 2.6L
UCC VII 30 00 40 27.4 49.94N 6.21E 10 2.1L
NEIC M_L2.2(DBN).
BUG VII 30 11 57 08.2 51.7N 7.8E 1 1.4L ¶97vii4578
BUG Mining induced event
BUG VII 30 20 11 46.0 51.7N 7.9E 1 1.5L ¶97vii4630
BUG Mining induced event
ISC VII 30 21 12 53±10 48.0N±.14 8.2E±.85 5 4 1-2
LDG VII 30 21 12 58.0 48.1N 7.9E 1.8L **¶97vii4635**
NEIC VII 30 21 13 00.8 48.11N 7.58E 5
ISC Poorly determined
NEIC Poor solution.
ISC VII 30 21 24 15.9±.32 50.24N±.028 7.84E±.035 10 76 0-8
NEIC VII 30 21 24 15.9 50.23N 7.85E 10 **¶97vii4636**
UCC VII 30 21 24 16.7 50.31N 8.09E 10
LDG VII 30 21 24 17.6 50.2N 8.0E 3.6L
LEDBW VII 30 21 24 18.2 50.21N 7.92E 2 2.8L
STR VII 30 21 24 19.2 50.14N 7.97E 1 3.6L
NEIC ML 3.2 (CLL), 3.1 (DBN), 3.1 (GRF), 3.0 (VIE).
ISC VII 30 21 28 22.3±.67 50.23N±.046 7.95E±.055 6±6.5 31 0-5
NEIC VII 30 21 28 23.3 50.22N 7.97E 10 **¶97vii4638**
LDG VII 30 21 28 24.3 50.2N 7.9E 2.8L
NEIC M_L2.6(STR).
NEIC ML 2.5 (UCC), 2.2 (DBN).
ISC VII 30 22 39 08.6±.96 51.6N±.10 7.82E±.086 0 10 0-4
BUG VII 30 22 39 08.4 51.7N 7.7E 1 1.9L **¶97vii4642**
BUG Mining induced event
BUG VII 31 14 09 02.6 51.7N 7.9E 1 1.6L ¶97vii4741
BUG Mining induced event
ISC VIII 01 03 51 17.2±.95 51.58N±.092 7.78E±.088 0 9 0-3
BUG VIII 01 03 51 16.8 51.7N 7.7E 1 2.1L **¶97viii0023**
BUG Mining induced event
BUG VIII 01 10 21 47.5 51.7N 7.8E 1 1.4L ¶97viii0048
BUG Mining induced event
BUG VIII 01 22 00 08.3 51.7N 7.7E 1 2.0L ¶97viii0124
BUG Mining induced event
BUG VIII 02 06 00 17.3 51.7N 7.8E 1 1.3L ¶97viii0179
BUG Mining induced event
ISC VIII 02 18 19 14.7±.80 51.03N±.090 6.1E±.12 41±21 21 0-5
NEIC VIII 02 18 19 12.2 50.87N 6.60E 20 **¶97viii0245**
LDG VIII 02 18 19 12.6 51.1N 6.1E 2.8L
UCC VIII 02 18 19 14.6 51.11N 5.97E 11 2.2L
SZGRF VIII 02 18 19 14.8 51.1N 6.1E 10 2.2L
NEIC , Less reliable solution.
LDG Felt I=II MSK by one person near Roermond
BUG VIII 03 16 05 30.9 51.7N 7.7E 1 1.4L ¶97viii0381
BUG Mining induced event
BUG VIII 04 18 37 56.8 51.7N 7.8E 1 1.6L ¶97viii0529
BUG Mining induced event
BUG VIII 04 20 41 46.8 51.7N 7.7E 1 1.6L ¶97viii0549
BUG Mining induced event
BUG VIII 05 03 17 32.6 51.7N 7.7E 1 1.4L ¶97viii0606
BUG Mining induced event
BUG VIII 05 06 12 06.9 51.7N 7.7E 1 1.6L ¶97viii0623
BUG Mining induced event
BUG VIII 05 20 36 03.6 51.5N 7.1E 1 0.9L ¶97viii0709
BUG Mining induced event
LDG VIII 05 22 04 56.9 47.7N 9.2E 2.0L ¶97viii0721
BUG VIII 07 06 07 19.7 51.5N 7.1E 1 0.8L ¶97viii0896
BUG Mining induced event
ISC VIII 07 08 53 00.6±.72 49.48N±.072 6.01E±.098 10 12 1-4
NEIC VIII 07 08 53 01.2 49.55N 6.11E 10 **¶97viii0910**
LDG VIII 07 08 53 01.5 49.5N 6.0E 2.6L
NEIC Less reliable solution.
BUG VIII 07 22 02 06.0 51.6N 7.7E 1 1.5L ¶97viii1008
BUG Mining induced event
ISC VIII 08 03 07 43.2±.91 51.59N±.094 7.85E±.085 0 10 0-3
BUG VIII 08 03 07 43.8 51.6N 7.7E 1 2.1L **¶97viii1047**
SZGRF VIII 08 03 07 46.0 51.6N 7.7E 1 2.2L
BUG Mining induced event
ISC VIII 08 04 50 27±1.0 49.77N±.078 12.5E±.14 10 7 1-3
NEIC VIII 08 04 50 28.4 49.70N 12.43E 10 **¶97viii1058**
NEIC Less reliable solution.
ISC VIII 08 10 54 44.8±.25 47.24N±.022 9.52E±.032 5 72 0-7
NEIC VIII 08 10 54 44.9 47.22N 9.49E 5 **¶97viii1098**
SZGRF VIII 08 10 54 45.2 47.1N 9.5E 10 3.0L
ZUR VIII 08 10 54 45.7 47.13N 9.52E 1 2.8L
LEDBW VIII 08 10 54 45.8 47.15N 9.57E 10 3.1L
LDG VIII 08 10 54 48.6 47.2N 9.4E 3.0L
STR VIII 08 10 54 48.8 47.30N 9.39E 13 3.1L
NEIC $M_{L3.3}$(VIE)
ISC VIII 08 22 32 16±1.0 51.61N±.088 7.90E±.086 0 8 0-3
BUG VIII 08 22 32 15.3 51.7N 7.9E 1 1.8L **¶97viii1175**
BUG Mining induced event
BUG VIII 09 03 03 48.7 51.5N 7.1E 1 0.7L ¶97viii1194
BUG Mining induced event
BUG VIII 10 16 09 10.4 51.5N 7.2E 1 0.1L ¶97viii1422
BUG Mining induced event
BUG VIII 10 19 21 47.7 51.5N 7.1E 1 0.8L ¶97viii1446
BUG Mining induced event
BUG VIII 10 20 35 29.2 51.7N 7.7E 1 1.5L ¶97viii1455
BUG Mining induced event
BUG VIII 11 14 08 11.5 51.5N 7.1E 1 0.9L ¶97viii1573
BUG Mining induced event
ISC VIII 12 02 14 10.5±.95 49.32N±.053 7.1E±.18 0 6 0-1
NEIC VIII 12 02 14 11.1 49.35N 7.22E 5 **¶97viii1663**
NEIC M_L2.0(STR).
BUG VIII 12 12 35 51.6 51.5N 7.1E 1 1.2L ¶97viii1749
BUG Mining induced event
ISC VIII 12 17 15 15±1.1 51.60N±.084 7.8E±.11 0 7 0-2
BUG VIII 12 17 15 14.6 51.6N 7.7E 1 1.8L **¶97viii1782**
SZGRF VIII 12 17 15 17.2 51.6N 7.7E 1 2.0L
BUG Mining induced event
BUG VIII 12 20 06 39.2 51.5N 7.1E 1 0.9L ¶97viii1799
BUG Mining induced event
BUG VIII 13 02 00 26.6 51.5N 7.1E 1 0.9L ¶97viii1840
BUG Mining induced event
LEDBW VIII 13 03 44 32.2 49.38N 7.00E 1 1.8L ¶97viii1845
LEDBW Mining induced event
BUG VIII 13 04 57 12.8 51.7N 7.7E 1 1.2L ¶97viii1853
BUG Mining induced event
BUG VIII 13 11 24 02.5 51.5N 7.1E 1 1.0L ¶97viii1898
BUG Mining induced event
BUG VIII 13 19 47 46.9 51.5N 7.1E 1 0.9L ¶97viii1950
BUG Mining induced event
BUG VIII 15 17 50 42.9 51.5N 7.1E 1 0.9L ¶97viii2246
BUG Mining induced event
BUG VIII 15 19 15 12.9 51.7N 7.7E 1 1.7L ¶97viii2260
BUG Mining induced event
SZGRF VIII 15 19 21 50.3 50.9N 12.5E 1 1.4L ¶97viii2261
ISC VIII 15 19 56 52.3±.95 51.58N±.094 7.71E±.097 0 9 0-3
BUG VIII 15 19 56 51.6 51.7N 7.7E 1 1.9L **¶97viii2263**
SZGRF VIII 15 19 56 53.0 51.7N 7.7E 1 2.0L
BUG Mining induced event
ISC VIII 16 00 52 56±1.1 51.5N±.10 7.8E±.12 0 6 0-2
BUG VIII 16 00 52 55.5 51.7N 7.7E 1 1.7L **¶97viii2299**
SZGRF VIII 16 00 52 57.3 51.6N 7.8E 1 1.9L
BUG Mining induced event
ISC VIII 16 11 13 05±1.5 51.5N±.18 7.9E±.10 0 7 0-3
BUG VIII 16 11 13 03.4 51.7N 7.9E 1 1.8L **¶97viii2355**
SZGRF VIII 16 11 13 06.6 51.7N 7.9E 1 1.9L
BUG Mining induced event
BUG VIII 16 17 28 38.8 51.5N 7.1E 1 0.7L ¶97viii2396
BUG Mining induced event
BUG VIII 17 08 04 31.9 51.5N 7.1E 1 0.8L ¶97viii2510
BUG Mining induced event
BUG VIII 18 01 53 21.3 51.5N 7.1E 1 0.8L ¶97viii2610
BUG Mining induced event
BUG VIII 18 08 40 00.2 51.5N 7.1E 1 0.8L ¶97viii2647
BUG Mining induced event
BUG VIII 18 23 11 24.2 51.7N 7.7E 1 1.7L ¶97viii2726
BUG Mining induced event
ISC VIII 19 04 46 51±2.0 51.6N±.24 7.8E±.18 0 5 0-3
BUG VIII 19 04 46 49.3 51.7N 7.7E 1 2.1L **¶97viii2764**
SZGRF VIII 19 04 46 51.8 51.6N 7.8E 1 2.2L
ISC Poorly determined
BUG Mining induced event
ISC VIII 19 09 59 09±1.2 51.64N±.072 6.9E±.18 0 6 0-3
SZGRF VIII 19 09 58 56.7 51.2N 4.1E 1 2.5L **¶97viii2792**
BUG VIII 19 09 59 09.0 51.7N 7.0E 1 1.3L
BUG Mining induced event
BUG VIII 20 16 16 56.4 51.5N 7.1E 1 0.8L ¶97viii2988
BUG Mining induced event
BUG VIII 20 20 44 51.8 51.7N 7.7E 1 1.7L ¶97viii3012
BUG Mining induced event
LEDBW VIII 21 01 21 28.1 49.37N 7.01E 1 1.7L ¶97viii3039
LEDBW Mining induced event
ISC VIII 21 03 33 23.3±.62 50.52N±.046 6.24E±.079 10 16 0-5
LDG VIII 21 03 33 25.1 50.6N 6.2E 2.4L **¶97viii3049**
UCC VIII 21 03 33 25.8 50.67N 6.06E 10 1.7L
BUG VIII 21 06 33 06.1 51.5N 7.1E 1 0.9L ¶97viii3064
BUG Mining induced event
ISC VIII 21 08 27 41±1.2 51.68N±.097 7.9E±.11 0 5 0-2
BUG VIII 21 08 27 40.6 51.7N 7.9E 1 1.9L **¶97viii3071**
SZGRF VIII 21 08 27 43.2 51.7N 7.9E 1 2.1L
BUG Mining induced event
ISC VIII 21 23 34 08.9±.87 51.58N±.088 7.84E±.084 0 11 0-4
BUG VIII 21 23 34 08.7 51.7N 7.7E 1 1.8L **¶97viii3162**
SZGRF VIII 21 23 34 10.5 51.6N 7.7E 1 2.1L
BUG Mining induced event
BUG VIII 22 02 54 57.5 51.5N 7.1E 1 1.0L ¶97viii3170
BUG Mining induced event
BUG VIII 22 04 52 05.6 51.7N 7.7E 1 1.7L ¶97viii3179
BUG Mining induced event
BUG VIII 22 15 10 54.5 51.5N 7.1E 1 1.1L ¶97viii3244
BUG Mining induced event
BUG VIII 23 06 40 01.9 51.7N 7.7E 1 1.6L ¶97viii3357
BUG Mining induced event
ISC VIII 23 06 44 25±1.0 51.62N±.091 7.77E±.099 0 8 0-2
BUG VIII 23 06 44 24.8 51.7N 7.7E 1 2.0L **¶97viii3358**
SZGRF VIII 23 06 44 27.5 51.6N 7.8E 1 2.2L
BUG Mining induced event

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**VIII 23 18 17 56**±1.1	**51.41N**±.089	**6.6E**±.18	**0**		**6**	**0-2**	
BUG	VIII 23 18 17 53.0	51.5N	6.5E	1	1.6L			¶97viii3433
BUG	Mining induced event							
ISC	**VIII 25 20 07 01.7**±.96	**51.62N**±.096	**7.79E**±.087	**0**		**10**	**0-3**	
BUG	VIII 25 20 07 01.4	51.7N	7.7E	1	1.9L			¶97viii3737
SZGRF	VIII 25 20 07 03.2	51.6N	7.8E	1	2.2L			
BUG	Mining induced event							
BUG	**VIII 25 20 08 42.5**	**51.7N**	**7.7E**	**1**	**1.6L**			¶97viii3738
BUG	Mining induced event							
BUG	**VIII 26 16 30 36.9**	**51.7N**	**7.7E**	**1**	**1.5L**			¶97viii3878
BUG	Mining induced event							
ISC	**VIII 26 22 12 06**±1.1	**51.58N**±.093	**7.7E**±.11	**0**		**8**	**0-2**	
BUG	VIII 26 22 12 04.9	51.7N	7.7E	1	2.1L			¶97viii3910
SZGRF	VIII 26 22 12 06.7	51.6N	7.8E	1	2.2L			
BUG	Mining induced event							
BUG	**VIII 26 22 29 18.7**	**51.7N**	**7.7E**	**1**	**1.6L**			¶97viii3912
BUG	Mining induced event							
ISC	**VIII 27 04 14 54**±2.8	**51.8N**±.25	**7.6E**±.23	**0**		**7**	**0-3**	
BUG	VIII 27 04 14 55.1	51.7N	7.7E	1	1.6L			¶97viii3939
SZGRF	VIII 27 04 14 56.2	51.6N	7.8E	1	2.2L			
BUG	Mining induced event							
BUG	**VIII 27 18 05 38.7**	**51.7N**	**7.7E**	**1**	**1.6L**			¶97viii4020
BUG	Mining induced event							
BUG	**VIII 27 19 12 52.6**	**51.6N**	**6.9E**	**1**	**1.7L**			¶97viii4028
BUG	Mining induced event							
BUG	**VIII 28 10 21 06.4**	**51.7N**	**7.8E**	**1**	**1.3L**			¶97viii4115
BUG	Mining induced event							
BUG	**VIII 29 09 22 09.6**	**51.5N**	**7.1E**	**1**	**0.8L**			¶97viii4267
BUG	Mining induced event							
ISC	**VIII 29 21 13 54.1**±.74	**51.52N**±.072	**7.82E**±.072	**0**		**17**	**0-5**	
BUG	VIII 29 21 13 54.4	51.7N	7.7E	1	2.2L			¶97viii4380
SZGRF	VIII 29 21 13 55.8	51.6N	7.7E	1	2.3L			
LDG	VIII 29 21 13 57.4	51.6N	7.8E		2.7L			
BUG	Mining induced event							
ISC	**VIII 31 01 34 16**±2.0	**51.5N**±.11	**7.7E**±.20	**0**		**5**	**0-1**	
BUG	VIII 31 01 34 13.8	51.7N	7.7E	1	1.8L			¶97viii4568
BUG	Mining induced event							
UCC	**IX 01 14 50 06.4**	**50.10N**	**6.11E**	**30**	**1.9L**			¶97ix0119
ISC	**IX 01 18 50 08**±1.1	**51.60N**±.093	**7.7E**±.11	**0**		**8**	**0-3**	
BUG	IX 01 18 50 07.1	51.7N	7.7E	1	2.0L			¶97ix0152
SZGRF	IX 01 18 50 08.7	51.6N	7.8E	1	2.1L			
BUG	Mining induced event							
BUG	**IX 02 00 48 26.7**	**51.5N**	**7.1E**	**1**	**0.3L**			¶97ix0192
BUG	Mining induced event							
ISC	**IX 02 09 19 14**±1.2	**51.7N**±.11	**7.8E**±.12	**0**		**6**	**0-2**	
BUG	IX 02 09 19 13.1	51.7N	7.9E	1	1.9L			¶97ix0250
SZGRF	IX 02 09 19 15.3	51.7N	7.9E	1	2.1L			
BUG	Mining induced event							
ISC	**IX 03 19 59 31.6**±.94	**51.6N**±.10	**7.8E**±.10	**0**		**7**	**0-3**	
BUG	IX 03 19 59 30.7	51.7N	7.7E	1	1.9L			¶97ix0474
SZGRF	IX 03 19 59 32.0	51.6N	7.8E	1	2.0L			
BUG	Mining induced event							
ISC	**IX 03 21 48 49.4**±.28	**49.14N**±.025	**6.71E**±.038	**0**		**72**	**1-7**	
SZGRF	IX 03 21 48 50.4	49.1N	6.7E	1	3.1L			¶97ix0496
NEIC	IX 03 21 48 50.6	49.13N	6.71E	10				
STR	IX 03 21 48 51.4	49.14N	6.84E	1	3.0L			
UCC	IX 03 21 48 51.5	49.12N	6.89E	8	3.1L			
LDG	IX 03 21 48 52.0	49.2N	6.8E		3.3L			
LEDBW	IX 03 21 48 52.9	49.22N	6.95E	1	2.9L			
NEIC	M_L3.1(UCC).							
NEIC	ML 3.1 (VIE). Mining induced event in the Lorraine region, France.							
LEDBW	Mining induced event							
BUG	**IX 03 22 29 11.4**	**51.7N**	**7.7E**	**1**	**1.7L**			¶97ix0503
BUG	Mining induced event							
ISC	**IX 04 06 15 54**±1.1	**51.64N**±.092	**7.7E**±.12	**0**		**7**	**0-2**	
BUG	IX 04 06 15 54.0	51.6N	7.7E	1	1.7L			¶97ix0554
SZGRF	IX 04 06 15 55.8	51.6N	7.8E	1	2.1L			
BUG	Mining induced event							
BUG	**IX 05 00 36 31.5**	**51.7N**	**7.7E**	**1**	**1.5L**			¶97ix0658
BUG	Mining induced event							
BUG	**IX 05 09 30 05.2**	**51.6N**	**7.2E**	**1**	**0.6L**			¶97ix0726
BUG	Mining induced event							
ISC	**IX 05 17 39 34**±2.0	**50.0N**±.12	**12.3E**±.20	**10**		**4**	**1-1**	
NEIC	IX 05 17 39 35.0	49.92N	12.13E	10				¶97ix0777
ISC	Poorly determined							
NEIC	Less reliable solution.							
ISC	**IX 05 22 49 53.0**±.95	**51.58N**±.091	**7.78E**±.086	**0**		**8**	**0-3**	
BUG	IX 05 22 49 52.5	51.7N	7.7E	1	1.9L			¶97ix0807
SZGRF	IX 05 22 49 54.5	51.6N	7.8E	1	2.1L			
BUG	Mining induced event							
BUG	**IX 06 13 11 28.8**	**51.7N**	**7.7E**	**1**	**1.5L**			¶97ix0916
BUG	Mining induced event							
ISC	**IX 07 05 18 50**±1.1	**51.48N**±.082	**7.0E**±.13	**0**		**5**	**0-9**	
BUG	IX 07 05 18 48.4	51.5N	7.1E	1	0.9L			¶97ix1016
BUG	Mining induced event							
ISC	**IX 10 22 12 34**±1.3	**47.03N**±.061	**9.1E**±.12	**5**		**12**	**1-4**	
LDG	IX 10 22 12 36.3	47.1N	9.1E		2.2L			¶97ix1585
NEIC	IX 10 22 12 40.6	47.18N	8.88E	5				
NEIC	M_L2.3(STR) Less reliable solution.							
BUG	**IX 12 10 20 43.4**	**51.7N**	**7.7E**	**1**	**1.5L**			¶97ix1802
BUG	Mining induced event							
BUG	**IX 13 07 04 37.5**	**51.7N**	**7.8E**	**1**	**1.3L**			¶97ix1941
BUG	Mining induced event							
BUG	**IX 13 12 51 48.7**	**51.7N**	**7.7E**	**1**	**1.8L**			¶97ix1971
SZGRF	IX 13 12 51 51.2	51.6N	7.8E	1	2.0L			
BUG	Mining induced event							
ISC	**IX 13 13 27 08**±1.8	**51.6N**±.15	**7.8E**±.11	**0**		**6**	**0-3**	
BUG	IX 13 13 27 08.1	51.7N	7.7E	1	1.9L			¶97ix1977
SZGRF	IX 13 13 27 10.7	51.6N	7.8E	1	2.1L			
BUG	Mining induced event							
BUG	**IX 13 20 59 14.0**	**51.6N**	**7.6E**	**1**	**1.3L**			¶97ix2036
BUG	Mining induced event							
BUG	**IX 16 21 16 31.9**	**51.6N**	**7.7E**	**1**	**1.5L**			¶97ix2428
BUG	Mining induced event							
ISC	**IX 17 02 54 41**±1.7	**51.6N**±.20	**7.7E**±.13	**0**		**8**	**0-3**	
BUG	IX 17 02 54 40.7	51.6N	7.7E	1	2.0L			¶97ix2459
SZGRF	IX 17 02 54 41.9	51.6N	7.8E	1	2.1L			
BUG	Mining induced event							
ISC	**IX 17 04 12 34.5**±.77	**51.47N**±.061	**6.6E**±.11	**0**		**17**	**0-6**	
BUG	IX 17 04 12 34.9	51.6N	6.7E	1	1.9L			¶97ix2463
NEIC	IX 17 04 12 35.1	51.51N	6.78E	10				
LDG	IX 17 04 12 36.4	51.6N	6.8E		2.7L			
UCC	IX 17 04 13 01.2	50.61N	6.01E	10	2.3L			
BUG	Mining induced event							
NEIC	M_L2.6(STR), Less reliable solution.							
NEIC	ML 2.3 (DBN), 2.3 (UCC).							
ISC	**IX 17 19 58 19.0**±.76	**49.33N**±.045	**6.93E**±.088	**0**		**14**	**0-4**	
LEDBW	IX 17 19 58 19.9	49.38N	6.85E	1	2.1L			¶97ix2550
NEIC	IX 17 19 58 20.7	49.41N	6.94E	10				
UCC	IX 17 19 58 32.2	49.67N	6.15E	15	1.7L			
LEDBW	Mining induced event							
NEIC	Less reliable solution.							
BUG	**IX 17 22 45 33.3**	**51.7N**	**7.7E**	**1**	**1.6L**			¶97ix2567
BUG	Mining induced event							
ISC	**IX 19 01 51 01.5**±.85	**49.31N**±.052	**6.9E**±.11	**0**		**9**	**0-2**	
LEDBW	IX 19 01 51 02.5	49.37N	6.95E	1	2.1L			¶97ix2735
UCC	IX 19 01 51 14.7	49.67N	6.15E	10	1.4L			
LEDBW	Mining induced event							
ISC	**IX 20 04 35 45**±1.2	**51.6N**±.10	**7.7E**±.13	**0**		**7**	**0-2**	
BUG	IX 20 04 35 43.4	51.7N	7.7E	1	2.0L			¶97ix2900
SZGRF	IX 20 04 35 46.0	51.6N	7.7E	1	2.0L			
BUG	Mining induced event							
BUG	**IX 20 15 32 19.7**	**51.6N**	**7.7E**	**1**	**1.6L**			¶97ix2953
BUG	Mining induced event							
BUG	**IX 21 10 05 41.3**	**51.7N**	**7.7E**	**1**	**1.5L**			¶97ix3081
BUG	Mining induced event							
BUG	**IX 21 11 26 38.8**	**51.6N**	**7.7E**	**1**	**1.2L**			¶97ix3090
BUG	Mining induced event							
LEDBW	**IX 22 18 23 24.8**	**49.39N**	**6.91E**	**1**	**1.8L**			¶97ix3313
LEDBW	Mining induced event							
ISC	**IX 23 02 17 27.7**±.55	**48.33N**±.045	**8.23E**±.056	**13**±6.4		**25**	**0-3**	
LDG	IX 23 02 17 27.2	48.3N	8.3E		2.2L			¶97ix3355
NEIC	IX 23 02 17 28.3	48.28N	8.21E	10				
LEDBW	IX 23 02 17 28.3	48.33N	8.28E	17	2.1L			
NEIC	M_L2.0(STR).							
BUG	**IX 23 02 59 58.6**	**51.7N**	**7.7E**	**1**	**1.7L**			¶97ix3365
BUG	Mining induced event							
BUG	**IX 25 16 12 19.3**	**51.6N**	**7.7E**	**1**	**1.4L**			¶97ix3757
BUG	Mining induced event							
BUG	**IX 26 12 57 19.9**	**51.6N**	**7.7E**	**1**	**1.8L**			¶97ix4003
BUG	Mining induced event							
ISC	**IX 26 12 57 35**±1.1	**51.66N**±.090	**7.7E**±.12	**0**		**7**	**0-2**	
BUG	IX 26 12 57 34.2	51.6N	7.7E	1	2.1L			¶97ix4004
BUG	Mining induced event							
ISC	**IX 27 05 10 08**±9.2	**48.2N**±.14	**9.2E**±.75	**0**		**14**	**1-3**	
LDG	IX 27 05 10 13.0	48.1N	8.9E		2.3L			¶97ix4251
BUG	**IX 27 05 48 01.3**	**51.7N**	**7.0E**	**1**	**1.1L**			¶97ix4263
BUG	Mining induced event							
ISC	**IX 28 02 58 11.1**±.46	**51.40N**±.039	**6.37E**±.047	**0**		**66**	**1-7**	
BUG	IX 28 02 58 11.2	51.5N	6.5E	1	2.5L			¶97ix4520
NEIC	IX 28 02 58 12.6	51.37N	6.37E	10				
UCC	IX 28 02 58 13.7	51.44N	6.62E	10	3.1L			
SZGRF	IX 28 02 58 14.4	51.4N	6.6E	1	2.8L			
STR	IX 28 02 58 14.9	51.35N	6.31E	5	3.4L			
LDG	IX 28 02 58 15.7	51.3N	6.4E		3.3L			
BUG	Mining induced event							
NEIC	ML 2.9 (DBN).							
BUG	**IX 28 17 36 59.9**	**51.6N**	**7.7E**	**1**	**1.7L**			¶97ix4716
BUG	Mining induced event							
BUG	**IX 28 23 31 31.8**	**51.6N**	**7.7E**	**1**	**1.2L**			¶97ix4791
BUG	Mining induced event							
ISC	**IX 29 17 27 17**±2.6	**51.8N**±.25	**7.6E**±.23	**0**		**6**	**0-2**	
BUG	IX 29 17 27 18.0	51.7N	7.7E	1	1.9L			¶97ix4990
SZGRF	IX 29 17 27 19.7	51.6N	7.8E	1	1.9L			
BUG	Mining induced event							
ISC	**IX 30 07 58 53.4**±.76	**49.17N**±.048	**6.88E**±.097	**0**		**22**	**1-5**	
SZGRF	IX 30 07 58 54.0	49.2N	6.8E	1	2.9L			¶97ix5166
STR	IX 30 07 58 54.1	49.14N	6.87E	1	3.1L			
LEDBW	IX 30 07 58 54.9	49.18N	6.88E	1	2.8L			
NEIC	IX 30 07 58 55.0	49.22N	6.93E	10				
UCC	IX 30 07 59 09.8	49.67N	6.15E	10	2.9L			
LEDBW	Mining induced event							
NEIC	M_L2.9(DBN).							
NEIC	Mining induced event in the Lorraine region, France.							
BUG	**IX 30 14 56 52.0**	**51.7N**	**7.8E**	**1**	**1.7L**			¶97ix5254
BUG	Mining induced event							
ISC	**IX 30 15 42 28**±1.3	**51.65N**±.080	**6.9E**±.19	**0**		**4**	**0-1**	
BUG	IX 30 15 42 27.7	51.7N	7.0E	1	1.5L			¶97ix5269
ISC	Poorly determined							
BUG	Mining induced event							
BUG	**IX 30 16 38 59.8**	**51.6N**	**7.7E**	**1**	**1.3L**			¶97ix5274
BUG	Mining induced event							
BUG	**IX 30 23 49 04.1**	**51.7N**	**7.7E**	**1**	**1.8L**			¶97ix5335
BUG	Mining induced event							
ISC	**X 01 02 07 35**±1.3	**51.64N**±.080	**6.9E**±.19	**0**		**4**	**0-1**	
BUG	X 01 02 07 34.9	51.7N	7.0E	1	1.1L			¶97x0009
ISC	Poorly determined							
BUG	Mining induced event							
BUG	**X 01 05 08 23.7**	**51.7N**	**7.7E**	**1**	**1.4L**			¶97x0032
BUG	Mining induced event							
BUG	**X 01 15 11 28.1**	**51.7N**	**7.7E**	**1**	**1.6L**			¶97x0106
BUG	Mining induced event							
BUG	**X 01 22 24 20.2**	**51.7N**	**7.7E**	**1**	**1.5L**			¶97x0165
BUG	Mining induced event							
BUG	**X 02 22 55 21.9**	**51.6N**	**6.9E**	**1**	**1.1L**			¶97x0352
BUG	Mining induced event							
ISC	**X 04 02 56 41.7**±.76	**48.37N**±.064	**8.98E**±.092	**12**±11		**10**	**0-1**	
NEIC	X 04 02 56 41.7	48.36N	8.96E	10				¶97x0567
LEDBW	X 04 02 56 42.0	48.35N	8.98E	15	1.8L			
NEIC	M_L1.8(FBB).							
ISC	**X 05 10 57 39.7**±.46	**48.18N**±.040	**9.02E**±.045	**0**		**28**	**0-4**	
NEIC	X 05 10 57 40.7	48.16N	9.06E	10				¶97x0854
LEDBW	X 05 10 57 40.8	48.15N	9.03E	4	2.0L			
SZGRF	X 05 10 57 41.2	48.1N	9.0E	5	2.0L			
LDG	X 05 10 57 41.6	48.3N	8.9E		2.2L			
NEIC	ML 2.0 (FBB).							
LEDBW	Mining induced event							
BUG	**X 07 03 39 05.2**	**51.6N**	**6.9E**	**1**	**1.1L**			¶97x1170
BUG	Mining induced event							

BUG X 07 06 56 39.8 51.7N 7.7E 1 1.8L ¶97x1197
BUG Mining induced event
ISC X 09 02 20 24±1.3 **51.64N**±.080 **6.9E**±.19 **0 4 0-1**
BUG X 09 02 20 23.8 51.7N 7.0E 1 1.5L **¶97x1506**
ISC Poorly determined
BUG Mining induced event
ISC X 09 02 41 56.5±.87 **49.26N**±.072 **7.07E**±.079 **0 20 1-5**
SZGRF X 09 02 41 56.2 49.2N 6.7E 1 2.4L **¶97x1511**
NEIC X 09 02 41 56.7 49.07N 6.90E 10
NEIC M_L2.6(DBN), M_L2.5(UCC), Less reliable solution.
NEIC Mining induced event in the Lorraine region, France.
BUG X 09 09 10 30.5 51.6N 7.7E 1 1.7L ¶97x1562
BUG Mining induced event
BUG X 09 23 00 25.3 51.7N 7.0E 1 1.2L ¶97x1655
BUG Mining induced event
ISC X 11 00 35 32.7±.55 **49.37N**±.036 **6.96E**±.069 **0 25 0-4**
LEDBW X 11 00 35 34.4 49.38N 6.93E 1 2.4L **¶97x1819**
NEIC X 11 00 35 34.5 49.42N 6.90E 5
SZGRF X 11 00 35 34.5 49.4N 6.8E 1 2.7L
LEDBW Mining induced event
NEIC M_L2.5(DBN).
NEIC ML 2.5 (UCC), 2.4 (FBB). Mining induced event in the Lorraine region, France.
ISC X 11 10 28 51.9±.73 **51.46N**±.059 **6.81E**±.087 **5 19 0-7**
NEIC X 11 10 28 51.2 51.43N 6.95E 5 **¶97x1881**
SZGRF X 11 10 28 54.5 51.5N 6.8E 1 2.2L
LDG X 11 10 28 55.6 51.3N 6.7E 2.9L
NEIC M_L2.5(DBN), Less reliable solution.
ISC X 14 21 56 35±1.6 **51.5N**±.10 **7.7E**±.16 **0 9 0-10**
BUG X 14 21 56 33.3 51.7N 7.7E 1 2.0L **¶97x2506**
SZGRF X 14 21 56 35.2 51.6N 7.8E 1 2.0L
BUG Mining induced event
LEDBW X 18 10 24 01.7 48.26N 9.08E 8 1.3L ¶97x3139
ISC X 19 06 21 49.0±.88 **49.28N**±.084 **7.10E**±.085 **0 17 1-5**
SZGRF X 19 06 21 48.9 49.2N 6.8E 1 2.5L **¶97x3305**
NEIC X 19 06 21 49.6 49.13N 6.99E 10
NEIC M_L2.6(UCC), Less reliable solution.
NEIC ML 2.2 (DBN). Mining induced event in the Lorraine region, France.
ISC X 20 12 03 58.7±.87 **50.62N**±.096 **6.23E**±.086 **4**±18 **8 0-1**
SZGRF X 20 12 04 00.7 50.7N 6.3E 10 1.8L **¶97x3492**
UCC X 20 12 04 00.9 50.61N 6.01E 10 2.3L
ISC X 21 16 44 40.1±.49 **48.76N**±.023 **9.62E**±.031 **27**±5.5 **119 0-9**
SZGRF X 21 16 44 39.4 48.8N 9.7E 10 4.0L **¶97x3680**
NEIC X 21 16 44 39.5 48.74N 9.62E 20
LEDBW X 21 16 44 40.2 48.78N 9.69E 9 3.7L
STR X 21 16 44 40.6 48.76N 9.64E 10 4.0L
LDG X 21 16 44 41.7 48.8N 9.6E 3.9L
NEIC M_L4.1(CLL), M_L4.1(VIE)
NEIC ML 3.9 (FUR). Felt I=V MSK at Lorch and at Schwabisch Gmund.
LEDBW Felt I=V MSK
BUG X 23 17 27 23.1 51.7N 7.7E 1 2.1L ¶97x4036
BUG Mining induced event
SZGRF X 24 14 02 22.8 50.7N 12.8E 10 1.7L ¶97x4180
ISC X 24 16 10 19.4±.75 **49.33N**±.046 **6.91E**±.096 **0 13 0-2**
LEDBW X 24 16 10 20.9 49.37N 6.96E 1 2.0L **¶97x4195**
NEIC X 24 16 10 21.2 49.43N 6.94E 10
LEDBW Mining induced event
NEIC M_L1.7(UCC).
NEIC Mining induced event in the Lorraine region, France.
ISC X 24 21 19 12±2.5 **49.0N**±.20 **6.6E**±.35 **33 5 1-2**
ISC ML2.0 (after WLF) **¶97x4225**
ISC X 24 22 17 18.4±.58 **49.15N**±.032 **6.90E**±.078 **0 28 1-4**
SZGRF X 24 22 17 19.2 49.1N 6.7E 1 2.2L **¶97x4228**
LEDBW X 24 22 17 19.3 49.15N 6.86E 1 2.3L
LEDBW Mining induced event
LDG X 24 23 29 54.6 48.1N 8.0E 1.9L ¶97x4235
BUG X 25 15 05 32.5 51.7N 7.7E 1 1.9L ¶97x4342
BUG Mining induced event
ISC X 26 13 45 12.9±.77 **49.33N**±.045 **6.9E**±.12 **8**±11 **13 1-3**
LDG X 26 13 45 13.2 49.4N 7.0E 2.2L **¶97x4469**
NEIC X 26 13 45 15.3 49.27N 6.64E 10
NEIC M_L1.7(UCC), Less reliable solution.
BUG X 26 15 32 36.1 51.7N 7.8E 1 1.7L ¶97x4489
BUG Mining induced event
BUG X 28 03 14 04.8 51.5N 6.5E 1 1.7L ¶97x4694
BUG Mining induced event
ISC X 28 04 34 20.2±.63 **49.22N**±.066 **7.0E**±.12 **1 17 1-8**
SZGRF X 28 04 34 22.0 49.2N 6.8E 1 2.2L **¶97x4705**
BUG X 29 08 47 14.1 51.6N 7.2E 1 0.8L ¶97x4883
BUG Mining induced event
SZGRF X 29 19 58 18.0 53.94N 10.33E 4 1.8L ¶97x4943
BUG X 30 06 54 13.7 51.7N 7.8E 1 1.8L ¶97x5009
BUG Mining induced event
BUG X 31 20 21 58.5 51.6N 7.1E 1 1.0L ¶97x5227
BUG Mining induced event
UCC XI 01 01 59 36.0 49.67N 6.15E 10 1.9L ¶97xi0011
BUG XI 01 02 42 12.1 51.5N 6.5E 1 1.2L ¶97xi0015
BUG Mining induced event
ISC XI 01 02 42 21.5±.72 **51.46N**±.050 **6.40E**±.067 **0 29 1-6**
NEIC XI 01 02 42 22.3 51.46N 6.34E 5 **¶97xi0016**
BUG XI 01 02 42 22.4 51.5N 6.5E 1 2.1L
LDG XI 01 02 42 25.0 51.4N 6.4E 2.7L
SZGRF XI 01 02 42 26.4 51.4N 6.7E 1 1.9L
STR XI 01 02 42 26.5 51.31N 6.35E 2 3.0L
UCC XI 01 02 42 44.8 50.61N 6.01E 10 2.4L
NEIC M_L3.0(STR), M_L2.7(LDG).
BUG Mining induced event
SZGRF mining induced
ISC XI 02 20 55 18±1.4 **48.30N**±.065 **8.2E**±.13 **0 9 0-2**
LDG XI 02 20 55 19.0 48.3N 8.2E 1.8L **¶97xi0335**
BUG XI 03 13 48 59.6 51.5N 7.3E 1 0.8L ¶97xi0475
BUG Mining induced event
ISC XI 06 22 56 41±1.4 **51.65N**±.076 **7.2E**±.17 **0 8 0-2**
BUG XI 06 22 56 40.4 51.7N 7.1E 1 1.9L **¶97xi1047**
SZGRF XI 06 22 56 42.8 51.7N 7.2E 1 2.0L
BUG Mining induced event
SZGRF mining induced
ISC XI 08 20 05 44±2.5 **52.3N**±.19 **7.8E**±.11 **0 8 1-6**
SZGRF XI 08 20 05 44.3 52.4N 7.8E 1 2.8L **¶97xi1344**
SZGRF mining induced
ISC XI 09 05 25 33±1.0 **51.57N**±.084 **7.83E**±.099 **0 7 0-2**
SZGRF XI 09 05 25 34.8 51.6N 7.8E 1 2.0L **¶97xi1403**
SZGRF mining induced
ISC XI 10 16 13 03.7±.48 **50.32N**±.041 **10.16E**±.038 **10 66 1-7**
STR XI 10 16 13 03.0 50.53N 10.23E 10 3.3L **¶97xi1636**
LDG XI 10 16 13 03.8 50.5N 10.4E 3.3L
NEIC XI 10 16 13 04.9 50.22N 10.20E 10
LEDBW XI 10 16 13 05.1 50.38N 10.28E 10 3.2L
SZGRF XI 10 16 13 05.7 50.4N 10.3E 10 3.1L
NEIC ML 3.2 (FBB), 3.2 (VIE), 2.9 (CLL).
ISC XI 10 22 06 03±1.6 **49.35N**±.048 **7.0E**±.25 **0 8 0-2**
LEDBW XI 10 22 06 04.2 49.39N 6.98E 1 2.2L **¶97xi1683**
LEDBW Mining induced event
ISC XI 13 14 37 35.6±.80 **49.90N**±.063 **7.61E**±.086 **7**±11 **11 0-2**
NEIC XI 13 14 37 35.7 49.93N 7.61E 5 **¶97xi2154**
NEIC M_L2.3(STR), M_L2.1(DBN).
BUG XI 14 17 08 48.1 51.7N 7.7E 1 1.4L ¶97xi2323
BUG Mining induced event
BUG XI 15 04 43 53.2 51.7N 7.7E 1 1.6L ¶97xi2419
BUG Mining induced event
ISC XI 15 08 11 54.5±.81 **49.59N**±.048 **8.4E**±.11 **13**±14 **12 0-2**
LEDBW XI 15 08 11 55.4 49.64N 8.40E 13 1.8L **¶97xi2442**
NEIC XI 15 08 11 55.6 49.70N 8.36E 10
NEIC M_L2.0(STR).
ISC XI 16 16 54 18.1±.75 **50.29N**±.046 **7.30E**±.089 **10 15 0-3**
LDG XI 16 16 54 16.6 50.4N 7.5E 2.5L **¶97xi2673**
NEIC XI 16 16 54 20.8 50.29N 7.23E 10
NEIC M_L1.9(STR), Less reliable solution.
ISC XI 17 04 32 28.6±.81 **49.36N**±.039 **7.0E**±.14 **0 14 0-2**
LEDBW XI 17 04 32 29.6 49.38N 6.99E 1 2.1L **¶97xi2737**
LEDBW Mining induced event
ISC XI 18 03 57 08.9±.65 **47.06N**±.051 **9.19E**±.057 **10 22 1-4**
LDG XI 18 03 57 05.9 47.3N 9.4E 2.5L **¶97xi2908**
NEIC XI 18 03 57 12.0 47.31N 9.17E 10
NEIC M_L2.4(STR).
NEIC ML 2.3 (VIE).
BUG XI 18 05 34 20.3 51.7N 7.7E 1 1.5L ¶97xi2915
BUG Mining induced event
ISC XI 18 12 23 46.5±.39 **47.18N**±.022 **9.19E**±.034 **4**±4.3 **79 0-5**
ZUR XI 18 12 23 47.1 47.12N 9.23E 2 2.9L **¶97xi2958**
NEIC XI 18 12 23 47.2 47.18N 9.11E 5
SZGRF XI 18 12 23 48.9 47.1N 9.1E 35 3.1L
LEDBW XI 18 12 23 49.0 47.15N 9.10E 10 3.0L
LDG XI 18 12 23 49.6 47.1N 9.1E 3.1L
STR XI 18 12 23 49.7 47.20N 9.07E 10 3.0L
ROM XI 18 12 23 54.4 46.7N 9.3E 10 3.0D
NEIC M_L3.2(VIE).
NEIC ML 3.0 (FUR).
ISC XI 18 17 50 18.5±.60 **49.36N**±.035 **6.97E**±.096 **0 14 0-2**
LEDBW XI 18 17 50 19.4 49.38N 6.94E 1 2.2L **¶97xi3030**
NEIC XI 18 17 50 19.8 49.41N 6.97E 5
LEDBW Mining induced event
NEIC Mining induced event in the Lorraine region, France.
ISC XI 19 06 19 56.1±.74 **49.13N**±.037 **6.9E**±.12 **0 19 1-2**
NEIC XI 19 06 19 57.0 49.18N 6.92E 5 **¶97xi3150**
LEDBW XI 19 06 19 57.1 49.16N 6.85E 1 2.3L
LEDBW Mining induced event
BUG XI 20 08 26 23.8 51.6N 7.1E 1 0.6L ¶97xi3422
BUG Mining induced event
ISC XI 22 04 56 09.7±.45 **47.20N**±.016 **9.17E**±.023 **3**±3.9 3.5b **142 0-77**
EIDC XI 22 04 56 07.3 46.9N 9.2E 0 3.9L,3.5b **¶97xi3809**
STR XI 22 04 56 09.6 47.04N 9.23E 6 4.1L
ZUR XI 22 04 56 10.6 47.12N 9.22E 2 3.8L
NEIC XI 22 04 56 10.6 47.21N 9.16E 10 4.4b
LEDBW XI 22 04 56 10.7 47.11N 9.23E 5 3.9L
ROM XI 22 04 56 11.5 47.3N 9.0E 10 3.8D
SZGRF XI 22 04 56 12.7 47.2N 9.2E 31 4.0L
LDG XI 22 04 56 13.2 47.1N 9.1E 4.0L
NEIC M_L4.2(VIE)
NEIC ML 4.0 (FUR).
ISC XI 22 05 31 54.3±.71 **47.06N**±.051 **9.13E**±.057 **15**±11 **22 1-4**
NEIC XI 22 05 31 58.2 47.27N 9.27E 10 **¶97xi3812**
LDG XI 22 05 31 58.5 47.1N 8.9E 2.2L
NEIC M_L2.4(STR)
ISC XI 22 14 00 24±1.7 **50.26N**±.069 **6.4E**±.24 **3 5 0-2**
UCC XI 22 14 00 22.7 50.27N 6.72E 3 2.5L **¶97xi3888**
ISC XI 22 23 04 04.4±.55 **47.05N**±.042 **9.15E**±.046 **5 25 1-4**
LDG XI 22 23 04 07.2 47.1N 9.1E 2.1L **¶97xi3979**
NEIC XI 22 23 04 08.5 47.29N 9.23E 5
NEIC M_L2.5(STR), M_L2.2(VIE).
ISC XI 23 20 27 23.4±.79 **47.06N**±.058 **9.16E**±.065 **5 14 1-4**
LDG XI 23 20 27 25.0 47.1N 9.2E 2.2L **¶97xi4189**
NEIC XI 23 20 27 26.8 47.26N 9.28E 5
NEIC M_L2.4(VIE), M_L2.3(STR).
ISC XI 25 04 36 06.1±.90 **51.56N**±.081 **7.87E**±.076 **0 9 0-3**
BUG XI 25 04 36 05.7 51.7N 7.8E 1 1.8L **¶97xi4443**
SZGRF XI 25 04 36 07.5 51.7N 7.8E 2 2.0L
BUG Mining induced event
ISC XI 25 13 06 39±1.2 **49.40N**±.096 **7.0E**±.12 **0 6 1-4**
ISC ML1.9 (WLF) **¶97xi4516**
BUG XI 26 05 23 58.0 51.7N 7.7E 1 1.6L ¶97xi4642
BUG Mining induced event
BUG XI 28 15 39 53.1 51.7N 7.8E 1 1.6L ¶97xi5111
BUG Mining induced event
ISC XI 29 10 54 37.3±.71 **50.24N**±.029 **8.17E**±.033 **9**±5.6 **97 0-8**
NEIC XI 29 10 54 37.2 50.22N 8.14E 10 **¶97xi5249**
LEDBW XI 29 10 54 38.1 50.29N 8.29E 5 3.2L
SZGRF XI 29 10 54 38.2 50.3N 8.3E 10 3.5L
LDG XI 29 10 54 39.9 50.2N 8.2E 3.9L
STR XI 29 10 54 40.7 50.16N 8.09E 10 3.8L
UCC XI 29 10 55 03.7 50.26N 6.15E 10 3.6L
NEIC ML 3.8 (CLL), 3.7 (DBN), 3.6 (VIE), 3.4 (FUR).
LEDBW Felt I=IV MSK
ISC XI 29 18 54 47.8±.52 **50.36N**±.040 **7.51E**±.056 **10 25 0-4**
LDG XI 29 18 54 49.3 50.2N 7.3E 2.7L **¶97xi5310**
NEIC XI 29 18 54 49.8 50.41N 7.50E 10
SZGRF XI 29 18 54 50.3 50.3N 7.5E 10 2.1L
UCC XI 29 18 54 51.1 50.31N 7.35E 2
NEIC M_L2.3(STR), Less reliable solution.
ISC XI 29 20 06 08.3±.80 **50.28N**±.024 **8.15E**±.029 **14**±6.6 **146 0-10**
NEIC XI 29 20 06 08.0 50.24N 8.15E 10 **¶97xi5316**
LEDBW XI 29 20 06 09.2 50.28N 8.27E 5 3.8L
SZGRF XI 29 20 06 09.3 50.3N 8.4E 7 4.0L

Agency		Origin Time		φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
LDG	XI	29 20 06 10.6		50.2N	8.2E		4.3L		
UCC	XI	29 20 06 13.7		50.14N	8.14E	10	3.9L		
STR	XI	29 20 06 16.0		49.97N	7.74E	10	4.8L		
NEIC	ML4.3(CLL).								
NEIC	ML 4.0 (DBN), 4.0 (FUR), 4.0 (VIE).								
LEDBW	Felt I=IV MSK								
ISC	**XI**	**29 23 01 16.9**±.59		**50.34N**±.050	**8.37E**±.065	**14**±7.2		**22**	**0-5**
NEIC	XI	29 23 01 19.0		50.17N	8.34E	10			¶97xi5338
SZGRF	XI	29 23 01 19.0		50.3N	8.3E	10	1.9L		
LDG	XI	29 23 01 19.9		50.2N	8.1E		2.4L		
NEIC	ML2.2(STR), Less reliable solution.								
BUG	**XII**	**01 10 04 48.3**		**51.6N**	**7.0E**	**1**	**1.2L**		¶97xii0066
BUG	Mining induced event								
BUG	**XII**	**01 15 18 10.3**		**51.7N**	**7.7E**	**1**	**1.9L**		¶97xii0104
BUG	Mining induced event								
ISC	**XII**	**02 20 03 40**±1.2		**51.6N**±.12	**7.9E**±.12	**0**		**5**	**0-2**
BUG	XII	02 20 03 40.6		51.7N	7.8E	1	1.7L		¶97xii0303
SZGRF	XII	02 20 03 41.2		51.8N	7.6E	1	2.1L		
BUG	Mining induced event								
SZGRF	mining induced								
BUG	**XII**	**03 04 20 33.9**		**51.6N**	**7.0E**	**1**	**1.1L**		¶97xii0362
BUG	Mining induced event								
BUG	**XII**	**03 05 41 20.8**		**51.6N**	**7.2E**	**1**	**1.4L**		¶97xii0366
BUG	Mining induced event								
ISC	**XII**	**03 19 23 10.8**±.83		**51.65N**±.082	**7.78E**±.073	**0**		**13**	**0-4**
BUG	XII	03 19 23 10.0		51.7N	7.8E	1	2.6L		¶97xii0487
SZGRF	XII	03 19 23 12.1		51.7N	7.7E	1	2.6L		
BUG	Mining induced event								
SZGRF	mining induced								
ISC	**XII**	**03 19 23 36.9**±.69		**49.11N**±.038	**6.88E**±.082	**0**		**22**	**1-4**
LEDBW	XII	03 19 23 37.4		49.16N	6.87E	1	2.3L		¶97xii0488
LEDBW	Mining induced event								
BUG	**XII**	**04 17 20 43.6**		**51.6N**	**7.2E**	**1**	**1.0L**		¶97xii0656
BUG	Mining induced event								
ISC	**XII**	**06 03 39 56.0**±.45		**49.34N**±.031	**6.83E**±.056	**0**		**23**	**0-3**
LDG	XII	06 03 39 56.7		49.4N	7.0E		2.4L		¶97xii1228
NEIC	XII	06 03 39 57.1		49.35N	6.81E	5			
LEDBW	XII	06 03 39 57.8		49.38N	6.89E	1	2.1L		
NEIC	ML2.1(FBB).								
NEIC	Mining induced event in the Lorraine region, France.								
LEDBW	Mining induced event								
ISC	**XII**	**09 23 06 56.5**±.82		**50.41N**±.066	**8.19E**±.091	**9**±9.5		**16**	**0-4**
NEIC	XII	09 23 06 57.3		50.29N	8.15E	10			¶97xii2252
SZGRF	XII	09 23 06 57.8		50.4N	8.4E	10	2.0L		
LDG	XII	09 23 07 00.0		50.3N	8.3E		2.5L		
NEIC	Less reliable solution.								
BUG	**XII**	**11 15 06 27.8**		**51.6N**	**7.2E**	**1**	**1.3L**		¶97xii2589
BUG	Mining induced event								
ISC	**XII**	**12 02 53 49**±1.2		**51.49N**±.090	**6.8E**±.17	**0**		**5**	**0-2**
BUG	XII	12 02 53 47.7		51.6N	6.8E	1	1.7L		¶97xii2684
ISC	Poorly determined								
BUG	Mining induced event								
LEDBW	**XII**	**13 00 12 03.4**		**49.21N**	**6.97E**	**1**	**1.9L**		¶97xii2844
LEDBW	Mining induced event								
ISC	**XII**	**13 19 17 23**±1.0		**51.58N**±.084	**7.92E**±.094	**0**		**8**	**0-2**
BUG	XII	13 19 17 21.8		51.7N	7.9E	1	2.2L		¶97xii3000
BUG	Mining induced event								
BUG	**XII**	**16 04 14 44.6**		**51.7N**	**7.8E**	**1**	**1.6L**		¶97xii3381
BUG	Mining induced event								
ISC	**XII**	**16 06 06 33.0**±.77		**51.55N**±.058	**7.60E**±.069	**0**		**26**	**0-6**
BUG	XII	16 06 06 34.2		51.6N	7.6E	1	2.1L		¶97xii3396
NEIC	XII	16 06 06 35.7		51.56N	7.35E	10			
LDG	XII	16 06 06 36.5		51.5N	7.4E		2.9L		
BUG	Mining induced event								
NEIC	ML2.9(STR), Less reliable solution.								
NEIC	ML 2.5 (DBN).								
BUG	**XII**	**16 09 50 44.4**		**51.7N**	**7.7E**	**1**	**1.6L**		¶97xii3431
BUG	Mining induced event								
BUG	**XII**	**17 15 19 28.6**		**51.6N**	**7.2E**	**1**	**1.0L**		¶97xii3622
BUG	Mining induced event								
BUG	**XII**	**17 22 13 04.8**		**51.7N**	**7.7E**	**1**	**1.3L**		¶97xii3668
BUG	Mining induced event								
BUG	**XII**	**19 00 10 14.9**		**51.7N**	**7.7E**	**1**	**1.4L**		¶97xii3858
BUG	Mining induced event								
BUG	**XII**	**19 14 11 14.6**		**51.7N**	**7.7E**	**1**	**1.6L**		¶97xii3979
BUG	Mining induced event								
BUG	**XII**	**19 14 29 33.4**		**51.6N**	**7.2E**	**1**	**1.1L**		¶97xii3981
BUG	Mining induced event								
ISC	**XII**	**20 19 40 49.8**±.92		**50.09N**±.069	**12.70E**±.098	**2**±29		**7**	**1-1**
SZGRF	XII	20 19 40 51.9		50.1N	12.7E	10	1.7L		¶97xii4161
BUG	**XII**	**23 08 42 19.2**		**51.6N**	**7.2E**	**1**	**1.1L**		¶97xii4571
BUG	Mining induced event								
BUG	**XII**	**23 19 19 58.5**		**51.6N**	**7.2E**	**1**	**0.8L**		¶97xii4649
BUG	Mining induced event								
ISC	**XII**	**24 18 42 10.0**±.67		**49.15N**±.038	**6.95E**±.087	**0**		**17**	**1-4**
SZGRF	XII	24 18 42 11.0		49.2N	6.8E	1	2.5L		¶97xii4806
NEIC	XII	24 18 42 11.1		49.16N	6.77E	10			
LEDBW	XII	24 18 42 11.7		49.14N	6.86E	1	2.3L		
SZGRF	mining induced								
NEIC	ML2.3(UCC), Less reliable solution.								
NEIC	Mining induced event in the Lorraine region, France.								
LEDBW	Mining induced event								
BUG	**XII**	**26 16 55 01.9**		**51.7N**	**7.7E**	**1**	**1.2L**		¶97xii5177
BUG	Mining induced event								
SZGRF	**XII**	**28 09 31 47.5**		**50.7N**	**12.4E**	**5**	**0.7L**		¶97xii5430
SZGRF	**XII**	**28 09 34 16.2**		**50.7N**	**12.4E**	**5**	**0.9L**		¶97xii5431
SZGRF	**XII**	**28 09 45 54.2**		**50.7N**	**12.4E**	**5**	**1.1L**		¶97xii5433
SZGRF	**XII**	**28 09 46 47.8**		**50.7N**	**12.4E**	**5**	**1.2L**		¶97xii5434
SZGRF	**XII**	**28 09 48 26.9**		**50.7N**	**12.4E**	**5**	**1.0L**		¶97xii5436
SZGRF	**XII**	**28 10 36 16.1**		**50.7N**	**12.4E**	**5**	**0.7L**		¶97xii5442
SZGRF	**XII**	**28 10 53 23.0**		**50.7N**	**12.4E**	**5**	**1.0L**		¶97xii5444
ISC	**XII**	**28 12 37 58.2**±.92		**50.64N**±.083	**12.4E**±.12	**5**		**6**	**1-2**
SZGRF	XII	28 12 37 59.3		50.7N	12.4E	5	1.6L		¶97xii5453
SZGRF	**XII**	**28 21 05 55.7**		**50.7N**	**12.4E**	**5**	**0.9L**		¶97xii5497
SZGRF	**XII**	**31 09 09 35.2**		**50.7N**	**12.4E**	**5**	**1.4L**		¶97xii5867
SZGRF	**XII**	**31 09 41 01.0**		**50.7N**	**12.4E**	**5**	**1.8L**		¶97xii5872

(544) Switzerland.

ISC	**VII**	**23 18 15 57.7**±.28		**46.40N**±.023	**6.95E**±.042	**10**		**52**	**0-5**
NEIC	VII	23 18 15 57.9		46.40N	6.94E	10			¶97vii3563
ZUR	VII	23 18 15 58.1		46.35N	7.00E	5	2.6L		
STR	VII	23 18 15 58.4		46.41N	6.98E	2	3.1L		
LDG	VII	23 18 15 58.6		46.4N	7.0E		3.0L		
ROM	VII	23 18 16 00.8		46.3N	6.7E	18	2.8D		
NEIC	ML 2.7 (VIE).								
ISC	**VII**	**29 08 50 34**±1.3		**46.07N**±.048	**7.3E**±.20	**5**		**14**	**1-3**
LDG	VII	29 08 50 34.8		46.1N	7.3E		2.4L		¶97vii4408
NEIC	VII	29 08 50 35.7		46.05N	7.23E	5			
NEIC	ML2.5(STR)								
ISC	**VII**	**31 20 58 37**±1.2		**46.66N**±.063	**7.2E**±.21	**10**		**10**	**1-3**
NEIC	VII	31 20 58 37.9		46.63N	6.98E	10			¶97vii4789
NEIC	ML3.3(STR), Less reliable solution.								
ISC	**VIII**	**01 20 58 35.1**±.22		**46.62N**±.018	**7.20E**±.034	**5**		**87**	**0-7**
NEIC	VIII	01 20 58 35.3		46.60N	7.14E	5			¶97viii0113
ZUR	VIII	01 20 58 36.0		46.54N	7.26E	10	2.8L		
STR	VIII	01 20 58 36.5		46.59N	7.23E	2	3.3L		
LDG	VIII	01 20 58 36.6		46.6N	7.2E		3.2L		
SZGRF	VIII	01 20 58 36.6		46.7N	7.0E	5	3.0L		
NEIC	ML 3.1 (VIE).								
ISC	**VIII**	**03 22 18 51**±1.9		**46.29N**±.057	**7.4E**±.25	**10**		**11**	**1-3**
LDG	VIII	03 22 18 53.1		46.3N	7.2E		1.9L		¶97viii0418
NEIC	VIII	03 22 18 55.5		46.21N	7.01E	10			
NEIC	Less reliable solution.								
ISC	**VIII**	**10 00 26 28**±1.7		**46.02N**±.065	**7.6E**±.17	**6**±14		**17**	**1-3**
LDG	VIII	10 00 26 29.7		46.1N	7.5E		1.9L		¶97viii1324
NEIC	VIII	10 00 26 29.8		46.12N	7.49E	10			
NEIC	ML2.3(STR) Less reliable solution.								
ISC	**VIII**	**10 15 02 21**±2.0		**46.12N**±.068	**7.8E**±.25	**10**		**10**	**1-3**
NEIC	VIII	10 15 02 21.0		46.06N	7.85E	10			¶97viii1409
LDG	VIII	10 15 02 22.8		46.1N	7.7E		2.0L		
NEIC	ML2.4(STR), Less reliable solution.								
ISC	**VIII**	**13 18 41 42**±12		**46.0N**±.17	**8.3E**±.93	**5**		**6**	**1-3**
LDG	VIII	13 18 41 44.9		46.0N	8.2E		2.1L		¶97viii1947
NEIC	VIII	13 18 41 49.2		45.92N	7.78E	5			
NEIC	Poor solution.								
ISC	**VIII**	**14 17 15 28**±1.1		**46.29N**±.057	**6.5E**±.14	**0**		**11**	**0-2**
LDG	VIII	14 17 15 28.7		46.3N	6.6E		2.2L		¶97viii2095
ISC	**VIII**	**17 03 11 55**±1.6		**46.01N**±.076	**6.6E**±.18	**10**		**7**	**0-2**
NEIC	VIII	17 03 11 53.1		46.08N	7.24E	10			¶97viii2472
LDG	VIII	17 03 11 55.3		46.0N	6.8E		1.9L		
NEIC	Poor solution.								
ISC	**VIII**	**18 04 16 53.1**±.76		**46.35N**±.042	**6.30E**±.094	**5**		**10**	**0-2**
NEIC	VIII	18 04 16 54.6		46.35N	6.47E	5			¶97viii2620
LDG	VIII	18 04 16 54.7		46.3N	6.3E		2.1L		
NEIC	Single network solution.								
ISC	**VIII**	**21 23 48 25**±34		**46.8N**±.88	**8E**±2.3	**0**		**8**	**2-3**
LDG	VIII	21 23 48 43.2		46.4N	7.5E		1.8L		¶97viii3165
ISC	Poorly determined								
ISC	**VIII**	**29 14 40 13**±3.6		**46.33N**±.089	**7.2E**±.37	**10**		**7**	**0-2**
NEIC	VIII	29 14 40 12.7		46.32N	7.15E	10			¶97viii4326
NEIC	Single network solution.								
ISC	**VIII**	**30 14 23 43.9**±.59		**46.31N**±.039	**7.61E**±.049	**8**±6.9		**34**	**0-3**
NEIC	VIII	30 14 23 44.5		46.36N	7.69E	5			¶97viii4496
LDG	VIII	30 14 23 44.7		46.3N	7.7E		2.7L		
ZUR	VIII	30 14 23 44.9		46.33N	7.71E	1	2.3L		
NEIC	ML2.8(STR).								
ISC	**IX**	**02 00 30 51.9**±.29		**47.59N**±.027	**7.70E**±.043	**25**		**66**	**0-7**
SZGRF	IX	02 00 30 50.0		47.6N	7.8E	10	3.0L		¶97ix0189
NEIC	IX	02 00 30 52.0		47.55N	7.80E	10			
LDG	IX	02 00 30 52.5		47.6N	7.8E		3.1L		
ZUR	IX	02 00 30 53.3		47.60N	7.86E	25	2.6L		
LEDBW	IX	02 00 30 53.4		47.60N	7.85E	23	3.0L		
NEIC	ML2.9(FUR).								
LEDBW	Felt I=IV MSK								
ISC	**IX**	**04 17 14 47**±1.7		**46.31N**±.056	**7.6E**±.22	**5**		**10**	**1-3**
LDG	IX	04 17 14 48.2		46.3N	7.6E		2.2L		¶97ix0613
NEIC	IX	04 17 14 48.3		46.34N	7.58E	5			
NEIC	Single network solution.								
ISC	**IX**	**04 17 26 26.2**±.97		**47.54N**±.086	**8.8E**±.11	**21**		**9**	**0-1**
ZUR	IX	04 17 26 25.9		47.53N	8.85E	21	2.0L		¶97ix0616
LEDBW	IX	04 17 26 26.1		47.52N	8.86E	2	1.8L		
ISC	**IX**	**13 03 35 06**±1.7		**46.48N**±.067	**7.6E**±.24	**10**		**11**	**1-3**
NEIC	IX	13 03 35 04.7		46.48N	7.76E	10			¶97ix1908
LDG	IX	13 03 35 08.3		46.5N	7.5E		2.3L		
NEIC	Single network solution.								
LEDBW	**IX**	**16 10 34 45.6**		**47.85N**	**7.86E**	**10**	**0.9L**		¶97ix2372
LEDBW	**IX**	**17 09 31 01.9**		**47.90N**	**7.51E**	**10**	**1.9L**		¶97ix2495
ISC	**X**	**17 00 51 14**±1.0		**46.18N**±.040	**6.8E**±.12	**5**		**12**	**1-2**
NEIC	X	17 00 51 15.3		46.05N	7.32E	5			¶97x2911
LDG	X	17 00 51 15.5		46.1N	7.0E		2.1L		
NEIC	Single network solution.								
ISC	**X**	**18 01 07 29**±1.8		**46.03N**±.055	**8.1E**±.20	**5**		**9**	**1-3**
LDG	X	18 01 07 31.7		46.0N	8.1E		1.9L		¶97x3080
NEIC	X	18 01 07 32.4		45.83N	8.05E	5			
NEIC	ML1.9(LDG), Single network solution.								
ISC	**X**	**18 07 01 10**±1.8		**46.03N**±.082	**6.7E**±.22	**5**		**8**	**1-2**
NEIC	X	18 07 01 08.9		46.11N	6.96E	5			¶97x3115
LDG	X	18 07 01 10.4		46.1N	6.8E		2.1L		
NEIC	Poor solution.								
ISC	**X**	**18 09 47 17.9**±.37		**46.09N**±.025	**6.75E**±.045	**5**		**30**	**0-3**
LDG	X	18 09 47 19.2		46.1N	6.8E		2.4L		¶97x3130
NEIC	X	18 09 47 19.4		46.04N	6.85E	5			
ZUR	X	18 09 47 19.9		46.08N	6.89E	5	2.0L		
NEIC	ML2.4(GEN).								
NEIC	ML 2.3 (STR).								
ISC	**X**	**18 09 49 40.6**±.31		**46.10N**±.023	**6.76E**±.043	**3**		**54**	**0-4**
NEIC	X	18 09 49 40.9		46.10N	6.79E	5			¶97x3131
LDG	X	18 09 49 41.8		46.1N	6.8E		2.7L		
ZUR	X	18 09 49 42.0		46.05N	6.84E	3	2.3L		
NEIC	ML2.7(STR).								
NEIC	ML 2.6 (GEN).								
ISC	**X**	**18 22 58 03**±1.5		**46.02N**±.071	**6.6E**±.18	**5**		**7**	**1-2**
NEIC	X	18 22 58 00.3		46.13N	7.16E	5			¶97x3248
LDG	X	18 22 58 03.1		46.1N	6.8E		2.0L		
NEIC	Poor solution.								
ISC	**X**	**22 21 02 34.0**±.95		**47.45N**±.049	**7.4E**±.12	**5**		**10**	**1-3**
NEIC	X	22 21 02 35.1		47.48N	7.36E	5			¶97x3882
LDG	X	22 21 02 36.0		47.5N	7.4E		2.1L		
NEIC	Poor solution.								

ISC	**X**	**23 12 07 01.1**±.28	**47.24N**±.027	**8.47E**±.038	**30**		**72**	**0-8**	
LEDBW	X	23 12 06 59.8	47.11N	8.63E	10	3.1L			¶97x3990
STR	X	23 12 07 01.0	47.21N	8.58E	10	3.0L			
ZUR	X	23 12 07 01.5	47.18N	8.63E	30	3.2L			
NEIC	X	23 12 07 01.6	47.24N	8.51E	37				
LDG	X	23 12 07 02.5	47.2N	8.5E		3.2L			
ROM	X	23 12 07 08.5	46.5N	9.0E	5	2.9D			
NEIC	M_L3.1(FBB).								
NEIC	ML 3.0 (VIE).								
NEIC	Felt I=V MSK at Lorch and Schwaebis (after UBR)								
ISC	**X**	**23 13 51 12**±1.5	**47.49N**±.090	**8.2E**±.11	**5**±13		**12**	**0-2**	
NEIC	X	23 13 51 11.9	47.47N	8.20E	5				¶97x4006
LDG	X	23 13 51 13.1	47.5N	8.2E		2.3L			
ISC	**X**	**26 09 13 36.0**±.69	**46.51N**±.045	**6.05E**±.086	**8**±9.5		**12**	**0-2**	
NEIC	X	26 09 13 37.0	46.53N	6.26E	5				¶97x4441
LDG	X	26 09 13 37.3	46.5N	6.1E		1.8L			
ISC	**X**	**26 11 47 54**±1.6	**46.10N**±.053	**7.0E**±.26	**5**		**8**	**1-2**	
LDG	X	26 11 47 55.3	46.1N	6.9E		2.0L			¶97x4454
NEIC	X	26 11 47 55.9	46.05N	6.77E	5				
NEIC	Less reliable solution.								
ISC	**X**	**29 19 24 06.5**±.48	**46.94N**±.033	**6.15E**±.064	**5**		**17**	**0-2**	
NEIC	X	29 19 24 07.9	47.00N	6.18E	5				¶97x4940
LDG	X	29 19 24 08.0	47.0N	6.2E		2.3L			
NEIC	Single network solution.								
ISC	**X**	**30 12 07 33.8**±.44	**47.81N**±.032	**7.97E**±.043	**7**±5.6		**34**	**0-3**	
NEIC	X	30 12 07 34.1	47.81N	8.00E	5				¶97x5036
LDG	X	30 12 07 35.4	47.8N	7.9E		2.3L			
NEIC	M_L2.0(STR).								
ISC	**XI**	**02 13 55 28.2**±.56	**46.78N**±.033	**6.83E**±.075	**14**±14		**18**	**1-2**	
LDG	XI	02 13 55 29.9	46.8N	6.9E		2.1L			¶97xi0271
NEIC	XI	02 13 55 30.9	46.84N	7.12E	10				
ISC	**XI**	**09 13 17 25**±2.4	**46.33N**±.052	**7.5E**±.33	**5**		**11**	**1-3**	
LDG	XI	09 13 17 27.0	46.3N	7.5E		2.1L			¶97xi1449
NEIC	XI	09 13 17 28.3	46.29N	7.39E	5				
NEIC	Single network solution.								
NEIC	**XI**	**09 13 58 05.0**	**47.06N**	**8.54E**	**5**			**1-3**	
LDG	XI	09 13 58 05.7	47.0N	8.4E		2.1L			¶97xi1453
NEIC	Poor solution.								
ISC	**XI**	**11 07 33 16.3**±.63	**47.77N**±.041	**7.25E**±.064	**5**		**17**	**0-3**	
NEIC	XI	11 07 33 17.4	47.86N	7.28E	5				¶97xi1756
LDG	XI	11 07 33 17.5	47.8N	7.3E		2.2L			
NEIC	Poor solution.								
LDG	**XI**	**11 07 34 47.9**	**47.8N**	**7.3E**		**2.0L**			¶97xi1757
ISC	**XI**	**11 14 45 57**±2.3	**47.6N**±.16	**8.2E**±.19	**21**±22		**8**	**0-3**	
LDG	XI	11 14 45 54.3	47.5N	8.3E		2.1L			¶97xi1808
ISC	**XI**	**11 20 21 17.9**±.71	**46.19N**±.045	**7.59E**±.091	**5**		**17**	**0-3**	
NEIC	XI	11 20 21 17.9	46.22N	7.71E	5				¶97xi1864
LDG	XI	11 20 21 18.7	46.2N	7.7E		2.1L			
NEIC	Single network solution.								
ISC	**XI**	**13 04 30 00.7**±.46	**46.20N**±.039	**6.60E**±.066	**16**		**23**	**0-3**	
ZUR	XI	13 04 29 58.5	46.21N	6.48E	16	2.0L			¶97xi2076
LDG	XI	13 04 29 58.8	46.3N	6.5E		2.6L			
NEIC	XI	13 04 29 59.1	46.22N	6.37E	5				
NEIC	M_L2.5(STR).								
ISC	**XI**	**14 14 49 35**±1.2	**47.89N**±.088	**8.1E**±.10	**5**		**7**	**0-1**	
NEIC	XI	14 14 49 35.4	47.90N	8.16E	5				¶97xi2302
NEIC	M_L1.6(STR).								
ISC	**XI**	**14 15 04 17.2**±.59	**47.93N**±.046	**7.83E**±.059	**5**		**17**	**0-2**	
NEIC	XI	14 15 04 17.4	47.93N	7.79E	5				¶97xi2305
LEDBW	XI	14 15 04 17.5	47.94N	7.83E	9	1.8L			
NEIC	M_L1.6(STR).								
ISC	**XI**	**17 17 09 20.7**±.24	**47.60N**±.024	**7.52E**±.033	**18**		**88**	**0-7**	
NEIC	XI	17 17 09 21.5	47.61N	7.53E	33				¶97xi2836
STR	XI	17 17 09 21.8	47.65N	7.59E	10	3.4L			
ZUR	XI	17 17 09 22.6	47.65N	7.63E	18	3.1L			
LEDBW	XI	17 17 09 22.6	47.64N	7.62E	17	3.5L			
LDG	XI	17 17 09 22.7	47.6N	7.6E		3.6L			
SZGRF	XI	17 17 09 24.9	47.7N	7.7E	39	3.5L			
NEIC	ML 3.6 (VIE), 3.4 (FUR), 3.2 (DBN).								
LEDBW	Felt I=IV MSK								
ISC	**XI**	**21 01 31 30.0**±.55	**46.69N**±.034	**6.87E**±.077	**10**		**17**	**1-2**	
LDG	XI	21 01 31 31.4	46.7N	7.0E		2.3L			¶97xi3563
NEIC	XI	21 01 31 32.4	46.73N	7.18E	10				
NEIC	M_L2.1(STR).								
ISC	**XI**	**23 22 21 02.3**±.76	**46.31N**±.042	**7.0E**±.13	**5**		**14**	**1-3**	
NEIC	XI	23 22 21 03.5	46.26N	7.10E	5				¶97xi4211
LDG	XI	23 22 21 03.8	46.3N	7.2E		1.9L			
NEIC	M_L2.1(STR) Less reliable solution.								
ISC	**XI**	**27 04 03 47.4**±.23	**46.23N**±.019	**6.85E**±.032	**5**		**79**	**0-7**	
NEIC	XI	27 04 03 47.9	46.21N	6.77E	5				¶97xi4789
ZUR	XI	27 04 03 48.1	46.18N	6.93E	4	2.7L			
STR	XI	27 04 03 48.2	46.19N	7.01E	5	3.1L			
LDG	XI	27 04 03 48.8	46.2N	6.9E		3.2L			
ROM	XI	27 04 03 54.1	45.7N	7.3E	5	2.5D			
NEIC	ML 2.8 (VIE).								
ISC	**XI**	**28 08 30 19.5**±.24	**46.46N**±.019	**7.90E**±.038	**6**		**80**	**0-6**	
NEIC	XI	28 08 30 19.3	46.45N	7.95E	5				¶97xi5038
LDG	XI	28 08 30 20.1	46.4N	7.9E		3.3L			
STR	XI	28 08 30 20.5	46.42N	7.81E	5	3.4L			
ZUR	XI	28 08 30 20.6	46.44N	7.89E	6	2.9L			
ROM	XI	28 08 30 22.9	46.3N	8.0E	8	2.8D			
NEIC	ML 3.2 (GEN), 3.1 (VIE).								
ISC	**XII**	**01 17 29 00**±1.6	**46.81N**±.076	**7.0E**±.19	**1**		**9**	**1-2**	
ZUR	XII	01 17 28 59.8	46.77N	6.87E	1	2.0L			¶97xii0116
LEDBW	XII	01 17 29 01.7	46.86N	6.84E	10	2.1L			
ISC	**XII**	**05 04 16 55.5**±.42	**47.58N**±.032	**8.96E**±.038	**1**±8.8		**38**	**0-4**	
ZUR	XII	05 04 16 56.8	47.60N	8.92E	23	2.2L			¶97xii0773
NEIC	XII	05 04 16 56.8	47.60N	8.94E	10				
LEDBW	XII	05 04 16 56.9	47.58N	8.93E	19	2.3L			
LDG	XII	05 04 17 00.6	47.6N	8.8E		2.4L			
NEIC	M_L2.3(FBB).								
NEIC	ML 2.3 (VIE).								
ISC	**XII**	**07 06 02 11.6**±.54	**46.02N**±.029	**8.03E**±.047	**5**±5.0		**44**	**0-4**	
NEIC	XII	07 06 02 11.8	46.01N	8.04E	5				¶97xii1629
ZUR	XII	07 06 02 11.9	46.07N	8.02E	11	2.1L			
LDG	XII	07 06 02 12.1	45.9N	8.1E		2.3L			
ROM	XII	07 06 02 13.7	45.9N	7.9E	5	2.5D			
NEIC	M_L2.4(STR)								
ISC	**XII**	**08 22 54 07**±1.4	**46.20N**±.054	**7.0E**±.17	**0**		**9**	**1-3**	
LDG	XII	08 22 54 08.0	46.2N	7.1E		2.0L			¶97xii2035
ISC	**XII**	**09 15 44 33**±1.4	**47.40N**±.095	**7.22E**±.083	**10**		**8**	**0-1**	
NEIC	XII	09 15 44 33.2	47.37N	7.23E	10				¶97xii2197
NEIC	M_L1.6(STR), Single network solution.								
LDG	**XII**	**28 19 39 42.9**	**46.2N**	**7.2E**		**1.9L**			¶97xii5487

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LDG	**VII**	**02 02 11 10.5**	**44.0N**	**7.3E**		**1.9L**			¶97vii0166
ISC	**VII**	**02 04 46 51**±7.8	**44.7N**±.28	**7.2E**±.55	**5**		**5**	**0-2**	
NEIC	VII	02 04 46 50.9	44.67N	7.21E	5				¶97vii0181
LDG	VII	02 04 46 52.5	44.7N	7.2E		2.0L			
NEIC	Poor solution.								
LJU	**VII**	**02 12 49 11.7**	**45.5N**	**13.8E**	**0**				¶97vii0241
ISC	**VII**	**02 17 39 17.1**±.72	**44.20N**±.037	**7.55E**±.066	**11**±5.8		**32**	**0-4**	
NEIC	VII	02 17 39 16.3	44.23N	7.70E	10				¶97vii0273
LDG	VII	02 17 39 17.0	44.2N	7.6E		2.8L			
ROM	VII	02 17 39 17.2	44.2N	7.6E	14	2.4D			
NEIC	M_L2.6(STR).								
ROM	**VII**	**03 01 21 09.7**	**44.6N**	**10.4E**	**24**	**2.0D**			¶97vii0332
ISC	**VII**	**03 01 39 10.1**±.68	**44.60N**±.047	**10.22E**±.086	**10**		**27**	**1-6**	
LDG	VII	03 01 39 09.2	44.6N	10.5E		2.6L			¶97vii0334
NEIC	VII	03 01 39 10.2	44.58N	10.17E	10				
ROM	VII	03 01 39 12.3	44.5N	10.3E	17	2.5D			
NEIC	M_L2.3(VIE).								
ISC	**VII**	**03 11 29 30**±4.3	**44.3N**±.15	**7.5E**±.48	**9**±16		**5**	**0-1**	
NEIC	VII	03 11 29 28.1	44.35N	7.68E	10				¶97vii0403
LDG	VII	03 11 29 29.6	44.3N	7.6E		2.3L			
ISC	Poorly determined								
NEIC	Poor solution.								
LJU	**VII**	**03 12 09 52.8**	**45.94N**	**13.7E**	**0**				¶97vii0408
ROM	**VII**	**03 21 28 25.8**	**44.7N**	**10.7E**	**5**	**2.4D**			¶97vii0454
ISC	**VII**	**04 08 18 08**±2.2	**44.48N**±.097	**7.3E**±.30	**14**±15		**7**	**0-6**	
NEIC	VII	04 08 18 08.3	44.50N	7.31E	10				¶97vii0524
LDG	VII	04 08 18 08.6	44.5N	7.3E		2.2L			
ISC	Poorly determined								
NEIC	Single network solution.								
ISC	**VII**	**04 11 29 35**±2.8	**44.30N**±.093	**7.4E**±.28	**5**		**5**	**0-1**	
NEIC	VII	04 11 29 34.5	44.34N	7.52E	5				¶97vii0550
LDG	VII	04 11 29 34.9	44.3N	7.6E		2.3L			
NEIC	Single network solution.								
LJU	**VII**	**04 11 54 11.4**	**45.7N**	**13.8E**	**5**				¶97vii0555
ISC	**VII**	**04 22 51 17**±1.7	**44.32N**±.076	**7.1E**±.20	**5**		**5**	**0-1**	
NEIC	VII	04 22 51 17.1	44.34N	7.18E	5				¶97vii0628
LDG	VII	04 22 51 17.3	44.3N	7.2E		2.0L			
NEIC	Single network solution.								
ISC	**VII**	**04 22 57 29**±1.7	**44.32N**±.077	**7.1E**±.20	**5**		**5**	**0-1**	
NEIC	VII	04 22 57 29.4	44.34N	7.19E	5				¶97vii0630
LDG	VII	04 22 57 29.6	44.3N	7.2E		2.2L			
NEIC	Single network solution.								
LDG	**VII**	**04 22 57 41.8**	**44.2N**	**7.4E**		**2.0L**			¶97vii0631
ISC	**VII**	**05 16 58 21**±1.6	**44.39N**±.062	**7.4E**±.28	**20**±11		**8**	**0-1**	
NEIC	VII	05 16 58 20.4	44.40N	7.39E	10				¶97vii0757
LDG	VII	05 16 58 21.6	44.3N	7.3E		2.2L			
NEIC	Single network solution.								
ISC	**VII**	**06 13 16 07**±2.0	**44.31N**±.082	**7.2E**±.22	**5**		**5**	**0-1**	
NEIC	VII	06 13 16 06.7	44.34N	7.32E	5				¶97vii0889
LDG	VII	06 13 16 06.9	44.3N	7.3E		2.0L			
NEIC	Single network solution.								
ISC	**VII**	**06 22 28 56.4**±.74	**45.54N**±.022	**10.43E**±.031	**0**±5.9		**111**	**0-10**	
SZGRF	VII	06 22 28 56.9	45.4N	10.9E	10	3.7L			¶97vii0947
LDG	VII	06 22 28 57.5	45.5N	10.7E		3.3L			
NEIC	VII	06 22 28 57.6	45.52N	10.41E	10				
ROM	VII	06 22 28 58.1	45.6N	10.5E	7	3.3D			
STR	VII	06 22 29 01.5	45.58N	10.29E	10	3.6L			
NEIC	M_L3.5(FUR).								
NEIC	ML 3.4 (VIE)								
ISC	**VII**	**07 01 37 51**±2.4	**44.2N**±.19	**10.5E**±.23	**9**		**4**	**0-0**	
ROM	VII	07 01 37 47.8	44.3N	10.6E	9	2.1D			¶97vii0967
ISC	Poorly determined								
ISC	**VII**	**07 03 17 13.6**±.64	**45.59N**±.048	**10.55E**±.091	**10**		**15**	**0-2**	
ROM	VII	07 03 17 13.3	45.6N	10.6E	10	2.4D			¶97vii0981
NEIC	VII	07 03 17 16.4	45.70N	10.32E	10				
NEIC	M_L2.3(VIE), Less reliable solution.								
ISC	**VII**	**07 10 35 47**±4.0	**44.2N**±.27	**10.2E**±.21	**10**		**4**	**0-1**	
ROM	VII	07 10 35 45.6	44.3N	10.2E	10	1.9D			¶97vii1027
ISC	Poorly determined								
ISC	**VII**	**07 12 03 05**±4.0	**44.7N**±.34	**10.1E**±.40	**1**±30		**5**	**0-1**	
ROM	VII	07 12 03 06.1	44.6N	9.9E	10	2.3D			¶97vii1039
ISC	Poorly determined								
ISC	**VII**	**07 22 49 26.2**±.72	**44.49N**±.077	**7.0E**±.12	**16**±15		**13**	**0-1**	
NEIC	VII	07 22 49 27.0	44.44N	6.74E	5				¶97vii1101
LDG	VII	07 22 49 27.3	44.5N	6.7E		1.9L			
NEIC	Single network solution.								
ISC	**VII**	**08 09 47 23**±1.9	**44.30N**±.092	**7.6E**±.16	**5**		**6**	**0-2**	
NEIC	VII	08 09 47 21.8	44.36N	7.72E	5				¶97vii1169
LDG	VII	08 09 47 23.8	44.3N	7.6E		2.4L			
NEIC	Single network solution.								
ISC	**VII**	**08 11 34 58**±1.7	**44.30N**±.086	**7.5E**±.16	**5**		**6**	**0-2**	
NEIC	VII	08 11 34 57.5	44.34N	7.55E	5				¶97vii1179
LDG	VII	08 11 34 59.0	44.3N	7.5E		2.2L			
NEIC	Single network solution.								
ISC	**VII**	**09 11 45 45.2**±.62	**44.42N**±.033	**10.50E**±.042	**22**±8.3		**54**	**0-5**	
NEIC	VII	09 11 45 44.0	44.44N	10.46E	10				¶97vii1328
LDG	VII	09 11 45 44.4	44.4N	10.6E		3.1L			
ROM	VII	09 11 45 45.5	44.4N	10.5E	14	2.8D			
STR	VII	09 11 45 47.8	43.94N	10.26E	5	3.0L			
NEIC	ML 2.8 (VIE).								
ISC	**VII**	**09 20 35 10.5**±.27	**44.10N**±.026	**10.70E**±.027	**10**	3.8b	**115**	**0-85**	
NEIC	VII	09 20 35 09.2	44.03N	10.82E	10				¶97vii1392
ROM	VII	09 20 35 11.0	44.1N	10.7E	5	3.5D			
LDG	VII	09 20 35 12.7	44.0N	10.6E		3.5L			
EIDC	VII	09 20 35 14.1	44.1N	11.2E	37	3.7L,3.4b			
STR	VII	09 20 35 14.8	44.16N	10.50E	5	3.8L			
NEIC	ML 3.4 (VIE).								
ISC	**VII**	**10 00 28 19.4**±.93	**44.07N**±.095	**10.6E**±.11	**15**±10		**12**	**0-3**	
ROM	VII	10 00 28 19.0	44.1N	10.7E	10	2.3D			¶97vii1415
LDG	VII	10 00 28 19.3	44.1N	10.7E		2.2L			
ISC	**VII**	**10 03 23 31.8**±.69	**44.19N**±.051	**7.53E**±.063	**5**		**12**	**0-1**	
NEIC	VII	10 03 23 31.8	44.23N	7.52E	5				¶97vii1437
LDG	VII	10 03 23 31.9	44.2N	7.6E		1.5L			
NEIC	Single network solution.								

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VII**	**10 03 38 42.1**±.99	**44.1N**±.10	**10.6E**±.11	**20**±10		**10**	**0-3**
ROM	VII	10 03 38 41.8	44.1N	10.7E	10	2.2D		¶97vii1439
LDG	VII	10 03 38 42.0	44.1N	10.7E		2.2L		
ROM	**VII**	**10 06 10 40.2**	**44.1N**	**10.6E**	**10**	**2.1D**		¶97vii1459
ISC	**VII**	**10 08 19 21**±3.1	**44.1N**±.21	**10.6E**±.32	**13**		**4**	**0-0**
ROM	VII	10 08 19 20.4	44.1N	10.7E	13	2.3D		¶97vii1477
ISC		Poorly determined						
ISC	**VII**	**10 10 59 48**±1.8	**44.6N**±.13	**10.0E**±.18	**11**±10		**12**	**0-2**
ROM	VII	10 10 59 47.2	44.6N	10.0E	5	2.2D		¶97vii1502
ROM	**VII**	**10 12 35 21.8**	**44.1N**	**10.6E**	**18**	**2.0D**		¶97vii1511
ISC	**VII**	**10 14 01 52**±1.2	**44.45N**±.049	**7.5E**±.14	**10**		**9**	**0-2**
NEIC	VII	10 14 01 52.1	44.46N	7.56E	10			¶97vii1518
LDG	VII	10 14 01 52.8	44.4N	7.4E		2.6L		
NEIC		Single network solution.						
ROM	**VII**	**10 16 12 52.5**	**44.0N**	**10.8E**	**10**	**2.1D**		¶97vii1536
ROM	**VII**	**10 17 53 33.5**	**44.1N**	**10.6E**	**17**	**1.8D**		¶97vii1540
ROM	**VII**	**10 19 06 31.7**	**44.1N**	**10.6E**	**16**	**2.1D**		¶97vii1550
ROM	**VII**	**10 19 13 04.8**	**44.1N**	**10.6E**	**17**	**2.0D**		¶97vii1552
ISC	**VII**	**10 20 43 07**±1.4	**44.1N**±.13	**10.7E**±.16	**9**±18		**7**	**0-1**
ROM	VII	10 20 43 06.3	44.1N	10.7E	11	2.3D		¶97vii1566
ISC	**VII**	**11 01 21 07.9**±.36	**46.67N**±.038	**10.28E**±.039	**10**		**50**	**0-6**
ZUR	VII	11 01 21 07.3	46.59N	10.24E	10	2.4L		¶97vii1603
NEIC	VII	11 01 21 07.8	46.63N	10.23E	5			
ROM	VII	11 01 21 10.6	46.5N	10.4E	6	2.7D		
STR	VII	11 01 21 10.6	46.67N	10.04E	11	3.0L		
LDG	VII	11 01 21 11.2	46.7N	10.2E		2.5L		
NEIC		M_L2.7(GRF), M_L2.6(FUR).						
NEIC		ML 2.6 (VIE)						
ISC	**VII**	**11 09 50 39**±3.5	**44.28N**±.099	**7.5E**±.34	**0**		**5**	**0-1**
LDG	VII	11 09 50 37.6	44.3N	7.7E		2.1L		¶97vii1658
ISC	**VII**	**11 10 57 30.7**±.54	**44.07N**±.037	**7.04E**±.057	**11**±7.0		**18**	**0-2**
NEIC	VII	11 10 57 31.0	44.07N	7.00E	5			¶97vii1677
LDG	VII	11 10 57 31.5	44.1N	7.1E		2.1L		
NEIC		Single network solution.						
ISC	**VII**	**13 02 59 12.8**±.89	**46.67N**±.063	**12.17E**±.073	**10**		**10**	**0-3**
ROM	VII	13 02 59 13.2	46.6N	12.2E	15	2.3D		¶97vii1915
NEIC	VII	13 02 59 16.5	46.80N	11.95E	10			
NEIC		M_L1.7(VIE), Less reliable solution.						
ISC	**VII**	**14 02 57 56.0**±.51	**45.84N**±.019	**7.11E**±.040	**5**±4.7		**76**	**0-8**
ZUR	VII	14 02 57 56.5	45.83N	7.13E	10	2.7L		¶97vii2063
NEIC	VII	14 02 57 56.5	45.86N	7.06E	5			
ROM	VII	14 02 57 56.6	45.7N	7.1E	5	2.8D		
LDG	VII	14 02 57 58.1	45.8N	7.1E		3.0L		
STR	VII	14 02 57 58.6	45.90N	7.07E	2	3.1L		
ISC	**VII**	**14 04 24 18.4**±.26	**46.31N**±.023	**12.97E**±.031	**5**		**105**	**0-10**
ROM	VII	14 04 24 17.9	46.4N	13.1E	5	3.1D		¶97vii2066
LDG	VII	14 04 24 18.3	46.3N	13.4E		3.1L		
NEIC	VII	14 04 24 18.8	46.27N	13.06E	10			
SZGRF	VII	14 04 24 21.8	46.4N	12.9E	10	3.5L		
STR	VII	14 04 24 24.9	46.32N	12.49E	10	3.5L		
NEIC		M_L3.1(VIE).						
LDG	**VII**	**14 09 53 17.6**	**44.3N**	**7.8E**		**1.7L**		¶97vii2097
ISC	**VII**	**14 10 02 54**±1.7	**44.40N**±.086	**8.4E**±.18	**5**		**8**	**0-2**
NEIC	VII	14 10 02 53.1	44.41N	8.46E	5			¶97vii2101
LDG	VII	14 10 02 55.2	44.4N	8.4E		2.2L		
NEIC		Single network solution.						
LJU	**VII**	**14 15 01 54.4**	**45.6N**	**13.9E**	**0**			¶97vii2158
ISC	**VII**	**15 08 42 44.7**±.87	**44.81N**±.081	**9.87E**±.097	**21**±12		**14**	**0-2**
ROM	VII	15 08 42 43.8	44.9N	9.8E	10	2.5D		¶97vii2277
ISC	**VII**	**15 10 47 49**±2.2	**44.33N**±.060	**7.5E**±.27	**5**		**6**	**0-1**
NEIC	VII	15 10 47 49.6	44.33N	7.51E	5			¶97vii2294
LDG	VII	15 10 47 49.7	44.3N	7.6E		2.3L		
NEIC		Single network solution.						
ISC	**VII**	**15 12 58 20**±1.8	**44.40N**±.093	**7.4E**±.16	**10**		**6**	**1-2**
NEIC	VII	15 12 58 18.9	44.49N	7.60E	10			¶97vii2305
LDG	VII	15 12 58 21.2	44.4N	7.4E		2.3L		
NEIC		Single network solution.						
ROM	**VII**	**15 18 55 25.7**	**44.7N**	**10.7E**	**10**	**2.3D**		¶97vii2337
ISC	**VII**	**15 22 40 06.3**±.45	**45.54N**±.032	**10.59E**±.063	**5**		**33**	**0-4**
NEIC	VII	15 22 40 06.6	45.45N	10.46E	5			¶97vii2363
ROM	VII	15 22 40 06.9	45.6N	10.5E	8	2.6D		
LDG	VII	15 22 40 09.2	45.3N	10.7E		2.3L		
NEIC		M_L2.4(VIE)						
ROM	**VII**	**16 03 33 37.4**	**44.4N**	**10.7E**	**18**	**2.2D**		¶97vii2383
ISC	**VII**	**16 08 37 20**±2.4	**44.26N**±.086	**7.3E**±.25	**10**		**5**	**0-1**
NEIC	VII	16 08 37 19.0	44.32N	7.55E	10			¶97vii2410
LDG	VII	16 08 37 19.5	44.3N	7.5E		2.2L		
NEIC		Poor solution.						
ISC	**VII**	**16 21 31 52.3**±.26	**45.56N**±.022	**10.49E**±.033	**6**		**84**	**0-6**
LDG	VII	16 21 31 51.4	45.5N	10.8E		2.9L		¶97vii2498
ROM	VII	16 21 31 52.7	45.6N	10.4E	6	3.4D		
NEIC	VII	16 21 31 52.7	45.51N	10.47E	10			
STR	VII	16 21 31 52.8	45.49N	10.73E	11	3.4L		
NEIC		M_L3.4(GRF).						
NEIC		ML 3.1(FUR), 3.0(VIE)						
ISC	**VII**	**16 22 50 31.3**±.41	**44.44N**±.027	**7.20E**±.062	**11**±6.1		**26**	**0-1**
NEIC	VII	16 22 50 31.5	44.45N	7.28E	10			¶97vii2509
LDG	VII	16 22 50 31.9	44.5N	7.2E		2.3L		
NEIC		M_L2.0(STR).						
ISC	**VII**	**17 03 54 29**±2.2	**44.3N**±.14	**10.9E**±.14	**11**±17		**6**	**0-1**
ROM	VII	17 03 54 28.4	44.2N	10.9E	8	2.5D		¶97vii2539
ISC	**VII**	**17 06 11 33**±3.5	**46.6N**±.56	**12.2E**±.46	**33**		**6**	**0-2**
ISC		ML2.1 (after SQTA)						¶97vii2554
ROM	**VII**	**18 10 05 35.5**	**44.4N**	**10.0E**	**10**	**2.1D**		¶97vii2723
ISC	**VII**	**18 15 32 37**±1.1	**44.41N**±.061	**8.22E**±.098	**5**		**10**	**0-2**
LDG	VII	18 15 32 36.3	44.4N	8.4E		2.4L		¶97vii2761
NEIC	VII	18 15 32 39.5	44.39N	8.14E	5			
NEIC		Single network solution.						
ISC	**VII**	**20 00 13 17.5**±.44	**44.63N**±.035	**10.75E**±.054	**10**		**41**	**1-7**
NEIC	VII	20 00 13 16.5	44.65N	10.79E	10			¶97vii2975
LDG	VII	20 00 13 17.4	44.6N	10.9E		2.8L		
ROM	VII	20 00 13 18.9	44.5N	10.9E	7	3.0D		
ROM	**VII**	**20 02 36 00.3**	**44.2N**	**11.3E**	**10**	**2.0D**		¶97vii2990
ISC	**VII**	**20 12 28 15**±1.6	**44.57N**±.038	**10.85E**±.054	**12**±13		**43**	**1-7**
LDG	VII	20 12 28 14.6	44.6N	10.9E		3.0L		¶97vii3091
STR	VII	20 12 28 14.7	44.60N	10.90E	3	3.1L		
ROM	VII	20 12 28 14.9	44.5N	10.9E	5	3.0D		
NEIC	VII	20 12 28 15.3	44.61N	10.65E	10			
ZUR	VII	20 12 28 39.8	45.94N	9.56E	10	2.1L		
NEIC		M_L3.3(VIE) Less reliable solution.						
ISC	**VII**	**21 23 27 26**±1.2	**44.77N**±.083	**10.6E**±.14	**5**		**5**	**1-1**
ROM	VII	21 23 27 26.2	44.8N	10.6E	5	2.5D		¶97vii3298
ISC	**VII**	**22 08 00 27**±3.2	**44.30N**±.098	**7.4E**±.32	**0**		**7**	**0-1**
LDG	VII	22 08 00 25.9	44.3N	7.6E		2.0L		¶97vii3341
ISC	**VII**	**22 08 45 51**±2.7	**44.39N**±.099	**7.3E**±.28	**5**		**5**	**1-1**
NEIC	VII	22 08 45 49.3	44.45N	7.49E	5			¶97vii3345
LDG	VII	22 08 45 49.8	44.5N	7.5E		2.1L		
NEIC		Poor solution.						
ISC	**VII**	**22 09 51 20**±3.2	**44.26N**±.094	**7.5E**±.31	**5**		**5**	**0-1**
NEIC	VII	22 09 51 18.7	44.31N	7.60E	5			¶97vii3354
LDG	VII	22 09 51 18.8	44.3N	7.7E		2.1L		
NEIC		Poor solution.						
ISC	**VII**	**22 12 11 30**±1.4	**45.7N**±.13	**13.9E**±.11	**0**		**4**	**0-1**
LJU	VII	22 12 11 29.4	45.7N	13.8E	0			¶97vii3375
ISC		Poorly determined						
ISC	**VII**	**22 15 44 40.6**±.42	**46.31N**±.038	**12.51E**±.048	**5**		**30**	**0-5**
ROM	VII	22 15 44 39.6	46.3N	12.5E	5	2.8D		¶97vii3390
NEIC	VII	22 15 44 41.7	46.44N	12.66E	10			
NEIC		M_L3.0(GRF), M_L2.7(VIE).						
ROM	**VII**	**22 19 43 19.9**	**44.4N**	**10.7E**	**26**	**2.1D**		¶97vii3424
ISC	**VII**	**23 00 30 37**±1.4	**44.51N**±.049	**7.2E**±.21	**10**		**7**	**0-1**
NEIC	VII	23 00 30 38.0	44.53N	7.29E	10			¶97vii3459
LDG	VII	23 00 30 38.5	44.5N	7.2E		2.0L		
NEIC		Single network solution.						
ISC	**VII**	**23 00 48 11**±2.0	**44.11N**±.080	**7.4E**±.21	**10**		**5**	**0-1**
NEIC	VII	23 00 48 11.1	44.13N	7.46E	10			¶97vii3461
LDG	VII	23 00 48 12.2	44.1N	7.4E		1.6L		
NEIC		Single network solution.						
ROM	**VII**	**24 00 10 30.9**	**44.2N**	**10.2E**	**10**	**1.9D**		¶97vii3591
ISC	**VII**	**24 21 31 18**±3.7	**44.67N**±.085	**7.4E**±.40	**10**		**7**	**0-1**
LDG	VII	24 21 31 19.6	44.7N	7.3E		1.7L		¶97vii3723
NEIC	VII	24 21 31 20.3	44.69N	7.29E	10			
ISC		Poorly determined						
NEIC		Poor solution.						
ISC	**VII**	**25 15 54 16.8**±.38	**45.87N**±.031	**11.08E**±.043	**10**		**53**	**0-6**
NEIC	VII	25 15 54 16.3	45.71N	11.05E	10			¶97vii3842
ROM	VII	25 15 54 16.8	45.9N	11.1E	5	3.3D		
LDG	VII	25 15 54 17.2	45.7N	11.2E		2.9L		
NEIC		M_L3.3(VIE), M_L3.1(FUR).						
ISC	**VII**	**25 17 00 20.2**±.63	**44.99N**±.019	**7.37E**±.038	**7**±5.4		**74**	**0-7**
NEIC	VII	25 17 00 19.8	44.99N	7.38E	5			¶97vii3848
ROM	VII	25 17 00 20.4	45.0N	7.3E	13	3.3D		
LDG	VII	25 17 00 21.6	45.0N	7.3E		3.6L		
STR	VII	25 17 00 22.6	44.93N	7.34E	11	3.6L		
ISC	**VII**	**25 17 44 05**±1.3	**44.45N**±.047	**7.3E**±.17	**5**		**9**	**0-2**
NEIC	VII	25 17 44 05.3	44.46N	7.29E	5			¶97vii3854
LDG	VII	25 17 44 05.9	44.5N	7.3E		2.3L		
NEIC		Single network solution.						
ISC	**VII**	**25 19 54 49**±1.2	**44.24N**±.062	**9.29E**±.066	**2**±11		**18**	**1-5**
NEIC	VII	25 19 54 42.6	43.99N	9.98E	5			¶97vii3868
LDG	VII	25 19 54 49.4	44.1N	9.5E		2.5L		
ROM	VII	25 19 54 49.6	44.3N	9.3E	9	2.6D		
NEIC		Poor solution.						
ISC	**VII**	**25 21 29 47**±1.1	**44.12N**±.058	**7.1E**±.13	**5**		**9**	**0-2**
NEIC	VII	25 21 29 47.3	44.11N	7.08E	5			¶97vii3883
LDG	VII	25 21 29 47.8	44.1N	7.1E		1.8L		
NEIC		Single network solution.						
ISC	**VII**	**26 18 53 37**±1.9	**44.76N**±.053	**7.2E**±.22	**10**		**7**	**0-2**
LDG	VII	26 18 53 37.8	44.8N	7.2E		1.6L		¶97vii3995
NEIC	VII	26 18 53 38.7	44.83N	7.10E	10			
NEIC		Single network solution.						
ISC	**VII**	**26 20 58 27**±5.2	**45.75N**±.099	**7.6E**±.44	**10**		**7**	**1-3**
NEIC	VII	26 20 58 30.4	45.73N	7.47E	10			¶97vii4011
LDG	VII	26 20 58 31.9	45.7N	7.3E		2.0L		
NEIC		Poor solution.						
ISC	**VII**	**27 13 06 47**±1.9	**46.4N**±.20	**12.8E**±.23	**14**		**6**	**0-2**
LJU	VII	27 13 06 45.7	46.4N	12.9E	14			¶97vii4112
ISC		Poorly determined						
ISC		ML1.8(WTTA), ML1.7(SQTA)						
ISC	**VII**	**30 16 45 25.3**±.90	**44.16N**±.079	**11.13E**±.091	**10**		**7**	**0-3**
ROM	VII	30 16 45 26.9	43.9N	11.1E	10	2.3D		¶97vii4609
ISC	**VII**	**31 19 04 10**±1.2	**44.1N**±.11	**10.5E**±.16	**5**		**5**	**0-1**
ROM	VII	31 19 04 09.1	44.2N	10.5E	5	2.4D		¶97vii4777
ISC	**VIII**	**01 11 40 56**±2.2	**44.3N**±.14	**7.3E**±.26	**17**±26		**7**	**0-1**
NEIC	VIII	01 11 40 56.2	44.36N	7.30E	10			¶97viii0055
NEIC		Single network solution.						
ISC	**VIII**	**01 13 25 08.4**±.49	**44.59N**±.034	**7.23E**±.080	**9**±10		**19**	**0-1**
NEIC	VIII	01 13 25 08.5	44.61N	7.29E	5			¶97viii0067
LDG	VIII	01 13 25 08.9	44.6N	7.3E		2.0L		
ROM	**VIII**	**02 14 00 48.2**	**44.3N**	**12.0E**	**11**	**2.5D**		¶97viii0220
ISC	**VIII**	**02 15 31 42**±2.4	**44.2N**±.25	**11.8E**±.12	**16**		**5**	**0-1**
ROM	VIII	02 15 31 40.8	44.3N	11.8E	16	2.5D		¶97viii0232
ISC	**VIII**	**03 01 10 42.6**±.95	**44.25N**±.071	**7.69E**±.073	**10**±15		**9**	**0-1**
NEIC	VIII	03 01 10 42.5	44.25N	7.69E	10			¶97viii0279
NEIC		Single network solution.						
ISC	**VIII**	**03 03 12 01**±1.7	**44.24N**±.068	**7.2E**±.19	**10**		**6**	**0-1**
NEIC	VIII	03 03 12 00.3	44.26N	7.37E	10			¶97viii0289
LDG	VIII	03 03 12 01.7	44.2N	7.2E		1.4L		
NEIC		Less reliable solution.						
ISC	**VIII**	**03 17 49 08.8**±.72	**44.98N**±.048	**9.96E**±.081	**10**		**29**	**0-4**
ROM	VIII	03 17 49 08.6	45.0N	9.9E	5	2.5D		¶97viii0389
LDG	VIII	03 17 49 08.9	45.0N	10.0E		2.4L		
NEIC	VIII	03 17 49 09.5	44.95N	9.87E	10			
NEIC		M_L2.5(VIE)						
ISC	**VIII**	**03 18 09 35.1**±.54	**44.45N**±.040	**7.31E**±.060	**10**		**18**	**0-2**
LDG	VIII	03 18 09 34.4	44.5N	7.4E		2.0L		¶97viii0390
NEIC	VIII	03 18 09 35.2	44.47N	7.36E	10			
ISC	**VIII**	**04 11 00 25.8**±.48	**46.46N**±.042	**12.72E**±.053	**5**		**22**	**0-5**
ROM	VIII	04 11 00 25.1	46.4N	12.8E	5	2.7D		¶97viii0497
NEIC	VIII	04 11 00 26.3	46.38N	12.70E	5			
NEIC		M_L3.0(GRF), M_L2.9(VIE).						
ISC	**VIII**	**04 19 05 29.3**±.47	**45.01N**±.029	**7.26E**±.063	**5**		**24**	**0-2**
NEIC	VIII	04 19 05 29.5	45.04N	7.28E	5			¶97viii0532
LDG	VIII	04 19 05 29.7	45.0N	7.3E		2.1L		
NEIC		Single network solution.						
ISC	**VIII**	**04 20 04 52**±1.3	**44.05N**±.081	**7.1E**±.15	**0**		**5**	**0-1**
LDG	VIII	04 20 04 53.1	44.1N	7.1E		1.8L		¶97viii0542
ISC		Poorly determined						

ISC	**VIII 05 01 08 54.6**±.46	**44.49N**±.034	**7.18E**±.075	**13**±7.2		**20**	**0-1**		
NEIC	VIII 05 01 08 54.9	44.50N	7.22E	5		¶97viii0589			
LDG	VIII 05 01 08 55.5	44.5N	7.2E		1.7L				
NEIC	Single network solution.								
ISC	**VIII 05 22 20 54.2**±.72	**44.79N**±.033	**10.69E**±.043	**15**±9.1		**61**	**1-6**		
LDG	VIII 05 22 20 52.3	44.8N	10.9E		2.8L	¶97viii0726			
NEIC	VIII 05 22 20 52.5	44.78N	10.66E	10					
ROM	VIII 05 22 20 53.8	44.7N	10.7E	5	2.8D				
ROM	**VIII 05 22 21 19.5**	**44.8N**	**10.6E**	**5**	**2.6D**	¶97viii0727			
ISC	**VIII 06 04 04 51.6**±.58	**44.33N**±.041	**7.15E**±.062	**5**		**14**	**0-1**		
NEIC	VIII 06 04 04 53.1	44.33N	6.97E	5		¶97viii0754			
LDG	VIII 06 04 04 53.8	44.3N	6.9E		1.7L				
NEIC	Single network solution.								
ISC	**VIII 07 11 10 37.0**±.51	**44.33N**±.041	**7.20E**±.074	**14**±6.9		**18**	**0-1**		
NEIC	VIII 07 11 10 37.5	44.33N	7.19E	5		¶97viii0932			
LDG	VIII 07 11 10 37.8	44.3N	7.2E		2.0L				
NEIC	Single network solution.								
ISC	**VIII 08 09 08 22.6**±.81	**44.52N**±.033	**10.47E**±.048	**12**±7.4		**65**	**0-6**		
LDG	VIII 08 09 08 21.6	44.5N	10.7E		3.2L	¶97viii1081			
NEIC	VIII 08 09 08 22.4	44.57N	10.39E	10					
ROM	VIII 08 09 08 23.6	44.4N	10.5E	14	3.1D				
STR	VIII 08 09 08 26.7	44.81N	10.06E	10	3.3L				
NEIC	ML 3.1 (VIE).								
ISC	**VIII 10 12 25 37.8**±.74	**44.32N**±.061	**12.1E**±.11	**19**		**8**	**0-2**		
ROM	VIII 10 12 25 38.3	44.3N	12.2E	19	2.6D	¶97viii1392			
ISC	**VIII 11 02 36 03.8**±.75	**44.46N**±.060	**8.44E**±.070	**5**		**14**	**0-2**		
NEIC	VIII 11 02 36 04.2	44.49N	8.47E	5		¶97viii1494			
LDG	VIII 11 02 36 05.1	44.5N	8.4E		2.2L				
ISC	**VIII 11 06 38 40.5**±.89	**44.57N**±.047	**10.01E**±.056	**12**±7.6		**31**	**0-7**		
ROM	VIII 11 06 38 40.0	44.6N	9.9E	9	2.7D	¶97viii1513			
LDG	VIII 11 06 38 40.3	44.5N	10.2E		2.8L				
NEIC	VIII 11 06 38 40.3	44.55N	9.99E	10					
ISC	**VIII 11 06 40 12.1**±.55	**44.64N**±.028	**10.06E**±.029	**20**±7.4		**96**	**0-7**		
LDG	VIII 11 06 40 11.3	44.6N	10.2E		3.5L	¶97viii1514			
NEIC	VIII 11 06 40 11.3	44.66N	10.01E	10					
ROM	VIII 11 06 40 11.8	44.7N	10.1E	6	3.5D				
SZGRF	VIII 11 06 40 14.2	44.8N	9.9E	10	3.9L				
STR	VIII 11 06 40 14.6	44.78N	9.69E	10	3.8L				
NEIC	M_L3.9(VIE)								
ISC	**VIII 11 06 50 38.0**±.69	**44.47N**±.055	**9.95E**±.051	**21**±9.6		**34**	**0-4**		
LDG	VIII 11 06 50 35.5	44.5N	10.2E		2.9L	¶97viii1517			
ROM	VIII 11 06 50 36.4	44.5N	9.9E	6	3.0D				
NEIC	VIII 11 06 50 36.7	44.56N	9.96E	10					
ISC	**VIII 11 06 58 09.0**±.31	**44.66N**±.029	**10.02E**±.036	**10**		**61**	**0-6**		
LDG	VIII 11 06 58 08.2	44.6N	10.3E		3.3L	¶97viii1518			
NEIC	VIII 11 06 58 08.9	44.65N	10.00E	10					
ROM	VIII 11 06 58 09.9	44.7N	10.1E	8	3.2D				
STR	VIII 11 06 58 17.0	43.35N	9.40E	10	3.2L				
NEIC	M_L3.2(VIE).								
ISC	**VIII 11 07 02 34.6**±.81	**44.56N**±.067	**10.00E**±.068	**18**±8.7		**23**	**0-3**		
NEIC	VIII 11 07 02 33.0	44.64N	10.06E	10		¶97viii1519			
ROM	VIII 11 07 02 33.8	44.5N	9.9E	8	2.7D				
LDG	VIII 11 07 02 34.7	44.5N	10.1E		2.7L				
ISC	**VIII 11 13 03 20**±1.5	**44.42N**±.060	**7.3E**±.18	**5**		**7**	**1-2**		
NEIC	VIII 11 13 03 19.9	44.42N	7.47E	5		¶97viii1569			
LDG	VIII 11 13 03 20.2	44.5N	7.5E		1.9L				
NEIC	Single network solution.								
ISC	**VIII 11 21 27 24**±1.0	**44.55N**±.063	**7.4E**±.11	**5**		**7**	**0-1**		
NEIC	VIII 11 21 27 23.7	44.55N	7.42E	5		¶97viii1630			
NEIC	M_L2.0(GEN), Single network solution.								
ISC	**VIII 12 03 18 56**±5.2	**45.6N**±.10	**7.6E**±.44	**5**		**5**	**1-1**		
LDG	VIII 12 03 18 57.6	45.6N	7.6E		1.7L	¶97viii1674			
NEIC	VIII 12 03 18 58.7	45.60N	7.44E	5					
NEIC	Single network solution.								
ISC	**VIII 12 14 50 25**±1.5	**44.6N**±.14	**10.2E**±.22	**18**±39		**9**	**0-3**		
ROM	VIII 12 14 50 24.9	44.4N	10.0E	5	2.6D	¶97viii1769			
ROM	**VIII 13 01 14 24.7**	**44.2N**	**11.0E**	**10**	**2.1D**	¶97viii1835			
ISC	**VIII 13 11 15 28**±5.1	**44.5N**±.36	**10.7E**±.17	**5**		**4**	**0-1**		
ROM	VIII 13 11 15 23.2	44.8N	10.6E	5	2.4D	¶97viii1897			
ISC	Poorly determined								
ISC	**VIII 13 23 40 21**±1.0	**44.4N**±.11	**10.0E**±.13	**27**±12		**17**	**0-3**		
ROM	VIII 13 23 40 17.7	44.6N	10.0E	5	2.6D	¶97viii1983			
NEIC	VIII 13 23 40 20.3	44.45N	9.88E	10					
LDG	VIII 13 23 40 20.8	44.4N	10.0E		2.0L				
ISC	**VIII 14 00 04 08.5**±.65	**44.46N**±.044	**10.2E**±.11	**10**		**10**	**0-3**		
ROM	VIII 14 00 04 07.6	44.4N	10.1E	10	2.4D	¶97viii1985			
NEIC	VIII 14 00 04 08.7	44.47N	10.25E	10					
NEIC	M_L2.1(VIE).								
ISC	**VIII 14 12 46 49.7**±.65	**44.46N**±.037	**7.00E**±.086	**11**±7.3		**19**	**0-1**		
NEIC	VIII 14 12 46 50.0	44.48N	7.06E	10		¶97viii2061			
LDG	VIII 14 12 46 50.2	44.5N	7.1E		1.8L				
NEIC	M_L2.1(GEN)								
ISC	**VIII 15 06 38 05.7**±.41	**44.90N**±.034	**11.28E**±.050	**10**		**53**	**1-6**		
NEIC	VIII 15 06 38 03.5	44.78N	11.53E	10		¶97viii2171			
ROM	VIII 15 06 38 05.6	44.9N	11.2E	9	3.0D				
LDG	VIII 15 06 38 07.4	45.1N	11.1E		2.6L				
NEIC	M_L3.1(VIE)								
ISC	**VIII 15 10 21 45.4**±.75	**44.84N**±.065	**11.4E**±.14	**10**		**9**	**1-2**		
ROM	VIII 15 10 21 44.7	44.9N	11.3E	10	2.5D	¶97viii2200			
ISC	**VIII 15 11 07 26**±4.2	**44.0N**±.16	**7.0E**±.34	**10**		**6**	**0-1**		
NEIC	VIII 15 11 07 25.8	44.02N	7.01E	10		¶97viii2209			
NEIC	M_L1.8(GEN), Single network solution.								
ISC	**VIII 16 05 59 54.2**±.95	**45.23N**±.078	**13.29E**±.085	**10**		**15**	**1-4**		
ROM	VIII 16 05 59 53.2	45.2N	13.3E	5	2.8D	¶97viii2325			
NEIC	VIII 16 05 59 56.2	45.40N	13.29E	10					
NEIC	M_L2.7(VIE), Less reliable solution.								
ISC	**VIII 16 19 39 20.7**±.58	**44.52N**±.040	**7.49E**±.067	**5**		**16**	**0-1**		
NEIC	VIII 16 19 39 20.8	44.52N	7.50E	5		¶97viii2411			
LDG	VIII 16 19 39 22.3	44.4N	7.3E		1.6L				
NEIC	M_L2.2(GEN)								
ISC	**VIII 16 20 59 07.6**±.49	**46.20N**±.040	**12.38E**±.053	**5**		**23**	**0-5**		
ROM	VIII 16 20 59 06.9	46.2N	12.4E	5	2.9D	¶97viii2419			
NEIC	VIII 16 20 59 08.8	46.18N	12.41E	10					
NEIC	M_L2.7(FUR), M_L2.7(VIE).								
ISC	**VIII 18 02 20 46.4**±.70	**45.07N**±.043	**7.01E**±.083	**5**		**9**	**0-1**		
LDG	VIII 18 02 20 46.3	45.1N	7.1E		1.4L	¶97viii2611			
NEIC	VIII 18 02 20 46.5	45.07N	6.98E	5					
NEIC	Poor solution.								
ISC	**VIII 19 02 36 46.3**±.63	**44.94N**±.045	**11.22E**±.099	**5**		**11**	**1-2**		
ROM	VIII 19 02 36 45.9	44.9N	11.3E	5	2.5D	¶97viii2749			
ISC	**VIII 20 04 10 56.2**±.66	**44.32N**±.050	**7.34E**±.075	**18**±14		**14**	**0-1**		
NEIC	VIII 20 04 10 56.0	44.32N	7.33E	10		¶97viii2903			
LDG	VIII 20 04 10 56.7	44.3N	7.3E		1.5L				
NEIC	M_L1.9(GEN)								
ISC	**VIII 20 11 30 20**±1.8	**44.32N**±.053	**7.4E**±.23	**6**±17		**8**	**0-1**		
LDG	VIII 20 11 30 20.4	44.3N	7.5E		2.0L	¶97viii2951			
NEIC	VIII 20 11 30 20.5	44.31N	7.45E	5					
NEIC	Single network solution.								
ISC	**VIII 22 08 50 54**±3.6	**44.26N**±.097	**7.5E**±.35	**0**		**5**	**0-1**		
LDG	VIII 22 08 50 52.6	44.3N	7.7E		2.1L	¶97viii3200			
ISC	**VIII 22 09 56 16**±2.5	**44.33N**±.063	**7.5E**±.27	**5**		**6**	**0-1**		
LDG	VIII 22 09 56 15.6	44.3N	7.7E		2.3L	¶97viii3208			
NEIC	VIII 22 09 56 17.0	44.31N	7.54E	5					
NEIC	Single network solution.								
ISC	**VIII 22 09 59 09**±3.0	**44.27N**±.084	**7.4E**±.30	**5**		**6**	**0-1**		
LDG	VIII 22 09 59 08.2	44.3N	7.7E		2.3L	¶97viii3209			
NEIC	VIII 22 09 59 08.3	44.29N	7.59E	5					
NEIC	Single network solution.								
ISC	**VIII 23 04 28 49.2**±.56	**44.38N**±.041	**7.06E**±.076	**13**±8.0		**15**	**0-1**		
LDG	VIII 23 04 28 49.5	44.4N	7.2E		1.5L	¶97viii3338			
NEIC	VIII 23 04 28 49.5	44.39N	7.11E	5					
NEIC	M_L2.0(GEN)								
ISC	**VIII 23 23 26 25.1**±.78	**44.78N**±.045	**8.05E**±.097	**24**±9.9		**21**	**0-2**		
LDG	VIII 23 23 26 23.6	44.7N	8.2E		1.8L	¶97viii3462			
NEIC	VIII 23 23 26 24.6	44.78N	8.03E	10					
NEIC	M_L2.2(GEN)								
ROM	**VIII 26 10 10 00.2**	**44.3N**	**10.9E**	**24**	**2.4D**	¶97viii3833			
ISC	**VIII 26 13 04 30**±1.8	**44.44N**±.049	**7.4E**±.21	**5**		**8**	**1-1**		
NEIC	VIII 26 13 04 30.2	44.45N	7.50E	5		¶97viii3848			
LDG	VIII 26 13 04 30.4	44.5N	7.5E		2.6L				
NEIC	Single network solution.								
ROM	**VIII 27 04 29 11.3**	**44.3N**	**10.9E**	**23**	**2.3D**	¶97viii3941			
ISC	**VIII 29 14 08 52.0**±.40	**44.38N**±.026	**7.29E**±.049	**1**±11		**28**	**0-2**		
LDG	VIII 29 14 08 52.7	44.3N	7.3E		2.1L	¶97viii4320			
NEIC	VIII 29 14 08 53.0	44.33N	7.29E	5					
NEIC	Single network solution.								
ISC	**VIII 30 10 11 55.4**±.44	**44.57N**±.027	**7.24E**±.052	**0**		**26**	**0-2**		
LDG	VIII 30 10 11 56.0	44.6N	7.2E		2.1L	¶97viii4469			
ROM	**VIII 30 15 09 54.3**	**44.0N**	**10.1E**	**10**	**2.1D**	¶97viii4503			
ISC	**VIII 31 06 12 27**±1.3	**44.35N**±.050	**7.2E**±.18	**0**		**8**	**1-2**		
LDG	VIII 31 06 12 28.1	44.3N	7.3E		1.9L	¶97viii4595			
ROM	**IX 01 20 34 53.7**	**44.2N**	**10.3E**	**10**	**2.1D**	¶97ix0159			
ISC	**IX 01 21 48 30.7**±.66	**45.88N**±.055	**12.70E**±.059	**5**		**17**	**1-4**		
ROM	IX 01 21 48 30.7	45.8N	12.8E	5	2.8D	¶97ix0171			
NEIC	IX 01 21 48 30.9	45.65N	12.76E	10					
NEIC	M_L2.6(VIE), Poor solution.								
ISC	**IX 02 13 26 16**±1.7	**44.38N**±.056	**7.3E**±.20	**0**		**7**	**0-1**		
LDG	IX 02 13 26 14.7	44.4N	7.5E		2.3L	¶97ix0281			
ISC	**IX 02 17 13 53.9**±.53	**44.10N**±.041	**7.56E**±.054	**10**		**14**	**0-1**		
NEIC	IX 02 17 13 54.0	44.12N	7.58E	10		¶97ix0304			
LDG	IX 02 17 13 54.8	44.1N	7.6E		2.1L				
NEIC	M_L2.0(GEN), Single network solution.								
ROM	**IX 03 05 19 30.4**	**44.1N**	**10.9E**	**10**	**2.3D**	¶97ix0385			
ISC	**IX 04 02 04 20**±1.0	**45.70N**±.076	**10.5E**±.13	**5**		**6**	**0-2**		
ROM	IX 04 02 04 20.3	45.7N	10.5E	5	2.5D	¶97ix0533			
ISC	**IX 04 02 20 47.1**±.76	**44.76N**±.049	**7.29E**±.097	**19**±17		**15**	**0-1**		
NEIC	IX 04 02 20 46.8	44.76N	7.31E	10		¶97ix0534			
LDG	IX 04 02 20 48.1	44.8N	7.2E		1.6L				
NEIC	M_L2.0(GEN)								
ISC	**IX 05 03 24 57.3**±.73	**44.45N**±.054	**7.25E**±.085	**16**±22		**14**	**0-1**		
NEIC	IX 05 03 24 57.1	44.44N	7.25E	10		¶97ix0680			
LDG	IX 05 03 24 58.0	44.4N	7.1E		1.7L				
NEIC	M_L2.0(GEN)								
ISC	**IX 05 03 26 48.2**±.59	**44.41N**±.043	**7.18E**±.070	**10**		**14**	**0-1**		
LDG	IX 05 03 26 48.3	44.4N	7.2E		1.8L	¶97ix0682			
NEIC	IX 05 03 26 48.3	44.45N	7.26E	10					
NEIC	M_L1.9(GEN)								
ISC	**IX 05 15 44 11.3**±.42	**44.39N**±.030	**7.23E**±.057	**10**		**22**	**0-1**		
NEIC	IX 05 15 44 11.5	44.42N	7.30E	10		¶97ix0764			
LDG	IX 05 15 44 11.9	44.4N	7.3E		2.0L				
NEIC	M_L2.3(GEN)								
LDG	**IX 05 15 55 25.5**	**44.5N**	**8.4E**		**2.1L**	¶97ix0766			
ISC	**IX 07 05 11 48.4**±.63	**44.82N**±.033	**8.73E**±.068	**5**		**38**	**0-4**		
NEIC	IX 07 05 11 47.4	44.82N	8.78E	5		¶97ix1014			
ROM	IX 07 05 11 48.3	44.7N	8.7E	5	2.7D				
LDG	IX 07 05 11 50.5	44.8N	8.7E		2.3L				
NEIC	M_L2.5(GEN)								
ISC	**IX 07 05 21 33**±8.5	**44.8N**±.28	**9.5E**±.79	**10**		**6**	**1-2**		
NEIC	IX 07 05 21 32.6	44.80N	9.48E	10		¶97ix1017			
NEIC	M_L1.9(GEN), Poor solution.								
ISC	**IX 07 05 46 38.5**±.39	**44.55N**±.026	**7.23E**±.051	**12**±4.6		**34**	**0-2**		
NEIC	IX 07 05 46 38.5	44.56N	7.29E	10		¶97ix1018			
LDG	IX 07 05 46 38.9	44.5N	7.3E		2.4L				
NEIC	M_L2.5(GEN)								
ISC	**IX 07 12 20 54.7**±.37	**44.59N**±.031	**9.98E**±.042	**10**		**55**	**0-5**		
LDG	IX 07 12 20 53.4	44.6N	10.3E		2.8L	¶97ix1063			
NEIC	IX 07 12 20 54.0	44.60N	10.03E	10					
ROM	IX 07 12 20 55.2	44.5N	9.9E	8	2.8D				
NEIC	M_L2.8(GEN)								
LDG	**IX 07 17 46 19.0**	**44.1N**	**7.2E**		**1.7L**	¶97ix1110			
ISC	**IX 09 00 48 22.6**±.30	**44.64N**±.029	**10.12E**±.035	**10**		**66**	**0-5**		
NEIC	IX 09 00 48 22.6	44.60N	10.09E	10		¶97ix1304			
ROM	IX 09 00 48 23.3	44.7N	10.1E	9	3.0D				
STR	IX 09 00 48 26.5	44.35N	9.85E	6	3.1L				
NEIC	M_L3.2(GEN), M_L3.2(LDG).								
NEIC	ML 2.9 (VIE).								
ISC	**IX 10 05 38 29.0**±.81	**44.79N**±.058	**9.78E**±.099	**23**±9.3		**27**	**0-4**		
NEIC	IX 10 05 38 26.8	44.85N	9.84E	10		¶97ix1478			
ROM	IX 10 05 38 29.2	44.8N	9.8E	11	2.4D				
LDG	IX 10 05 38 29.2	44.8N	9.8E		2.4L				
NEIC	M_L2.5(GEN)								
ISC	**IX 11 05 07 20**±2.1	**44.6N**±.17	**10.0E**±.20	**10**		**4**	**0-1**		
ROM	IX 11 05 07 19.8	44.6N	10.0E	10	2.1D	¶97ix1635			
ISC	Poorly determined								
ISC	**IX 11 05 08 56.4**±.62	**44.60N**±.030	**9.99E**±.040	**19**±8.3		**66**	**0-5**		
NEIC	IX 11 05 08 55.5	44.62N	9.97E	10		¶97ix1636			
LDG	IX 11 05 08 55.6	44.6N	10.1E		3.0L				
ROM	IX 11 05 08 56.5	44.6N	10.0E	10	2.9D				
STR	IX 11 05 08 56.8	44.72N	9.79E	2	3.1L				
NEIC	M_L3.1(GEN).								
NEIC	2.8 (VIE).								

Agency		Origin Time			ϕ	λ	h	Mag	n	Δ-Rng
	mo	d	h m	s	°	°	km			°
ISC	**IX**	**11**	**05 12**	**52.4**±.49	**44.26N**±.033	**7.10E**±.055	**10**±8.0		**20**	**0-1**
LDG	IX	11	05 12	52.7	44.3N	7.2E		2.0L		¶97ix1638
NEIC	IX	11	05 12	52.8	44.26N	7.15E	10			
NEIC	$M_{L2.1(GEN)}$									
ISC	**IX**	**12**	**00 35**	**35.0**±.56	**44.79N**±.030	**9.69E**±.051	**21**±7.2		**63**	**0-6**
NEIC	IX	12	00 35	33.8	44.81N	9.69E	10			¶97ix1752
LDG	IX	12	00 35	34.3	44.8N	9.8E		2.9L		
ROM	IX	12	00 35	35.3	44.8N	9.7E	15	3.0D		
STR	IX	12	00 35	35.8	44.91N	9.41E	2	3.0L		
ISC	**IX**	**12**	**03 50**	**06.4**±.32	**45.73N**±.028	**12.67E**±.036	**10**		**67**	**0-7**
SZGRF	IX	12	03 50	06.2	45.6N	12.7E	10	3.6L		¶97ix1767
NEIC	IX	12	03 50	06.3	45.63N	12.55E	5			
ROM	IX	12	03 50	07.3	45.7N	12.7E	10	3.2D		
LDG	IX	12	03 50	08.0	45.6N	12.7E		3.0L		
NEIC	$M_{L3.5(FUR)}$									
ISC	**IX**	**12**	**12 40**	**10**±1.6	**44.45N**±.051	**7.3E**±.26	**5**		**6**	**1-1**
NEIC	IX	12	12 40	09.8	44.45N	7.45E	5			¶97ix1813
LDG	IX	12	12 40	10.4	44.4N	7.5E		2.1L		
NEIC	Single network solution.									
ISC	**IX**	**13**	**17 13**	**03.0**±.72	**46.24N**±.054	**12.67E**±.080	**10**		**14**	**0-4**
ROM	IX	13	17 13	02.6	46.2N	12.7E	5	2.7D		¶97ix1998
NEIC	IX	13	17 13	03.4	46.11N	12.69E	10			
NEIC	M_L2.5(VIE), Less reliable solution.									
ROM	**IX**	**13**	**20 14**	**07.4**	**44.3N**	**10.9E**	**20**	**2.3b**		**¶97ix2032**
ISC	**IX**	**14**	**15 19**	**47**±4.0	**44.2N**±.22	**7.1E**±.36	**9**±48		**6**	**0-1**
NEIC	IX	14	15 19	46.6	44.21N	7.11E	5			¶97ix2138
NEIC	M_L1.8(GEN), Single network solution.									
ISC	**IX**	**15**	**01 56**	**44**±2.2	**44.25N**±.050	**7.0E**±.33	**5**		**7**	**0-1**
LDG	IX	15	01 56	43.1	44.3N	7.3E		1.8L		¶97ix2188
NEIC	IX	15	01 56	44.9	44.24N	7.00E	5			
NEIC	Single network solution.									
ISC	**IX**	**16**	**01 27**	**28.2**±.72	**44.04N**±.059	**11.73E**±.064	**26**±9.2		**22**	**0-7**
NEIC	IX	16	01 27	25.5	44.03N	11.76E	5			¶97ix2306
LDG	IX	16	01 27	29.0	44.0N	11.7E		2.9L		
ROM	IX	16	01 27	29.6	43.9N	11.8E	17	2.6D		
ISC	**IX**	**16**	**22 48**	**55.8**±.91	**46.03N**±.074	**12.62E**±.077	**10**		**11**	**0-3**
LJU	IX	16	22 48	50.0	45.7N	12.4E	45			¶97ix2436
ROM	IX	16	22 48	54.2	45.9N	12.7E	10	2.1D		
ISC	**IX**	**18**	**23 20**	**34**±1.5	**44.1N**±.37	**11.0E**±.17	**10**		**4**	**0-9**
ROM	IX	18	23 20	33.5	44.1N	11.0E	10	2.3D		¶97ix2724
ISC	Poorly determined									
ISC	**IX**	**19**	**08 37**	**48**±1.3	**45.9N**±.14	**12.75E**±.098	**17**		**9**	**0-2**
LJU	IX	19	08 37	41.9	45.6N	12.7E	17			¶97ix2764
ROM	IX	19	08 37	46.6	45.9N	12.8E	10	2.6D		
LDG	**IX**	**20**	**05 04**	**10.4**	**44.8N**	**7.7E**		**2.1L**		**¶97ix2902**
ISC	**IX**	**20**	**15 42**	**58**±1.4	**44.76N**±.051	**7.2E**±.16	**0**		**9**	**0-2**
LDG	IX	20	15 42	59.1	44.8N	7.2E		2.2L		¶97ix2956
ROM	**IX**	**21**	**17 40**	**06.2**	**44.8N**	**10.8E**	**10**	**2.3b**		**¶97ix3138**
ISC	**IX**	**21**	**20 34**	**23**±1.3	**44.34N**±.045	**7.2E**±.17	**0**		**8**	**0-1**
LDG	IX	21	20 34	24.1	44.3N	7.3E		1.9L		¶97ix3157
ISC	**IX**	**22**	**22 30**	**19**±1.2	**44.43N**±.046	**7.1E**±.19	**5**		**7**	**0-1**
NEIC	IX	22	22 30	19.6	44.44N	7.16E	5			¶97ix3335
LDG	IX	22	22 30	19.9	44.5N	7.2E		1.6L		
NEIC	Single network solution.									
ISC	**IX**	**23**	**20 06**	**58.3**±.90	**44.64N**±.045	**7.1E**±.11	**10**		**11**	**0-2**
NEIC	IX	23	20 06	58.6	44.69N	7.26E	10			¶97ix3470
LDG	IX	23	20 06	58.9	44.7N	7.2E		2.2L		
NEIC	Single network solution.									
ISC	**IX**	**24**	**00 59**	**41**±3.7	**45.90N**±.078	**8.1E**±.36	**10**		**11**	**1-3**
LDG	IX	24	00 59	44.4	45.9N	8.0E		2.1L		¶97ix3503
NEIC	IX	24	00 59	48.4	45.81N	7.60E	10			
NEIC	Single network solution.									
ISC	**IX**	**24**	**07 52**	**44.5**±.41	**44.14N**±.030	**7.01E**±.044	**10**		**27**	**0-4**
NEIC	IX	24	07 52	44.8	44.12N	7.03E	10			¶97ix3545
LDG	IX	24	07 52	45.0	44.1N	7.0E		2.5L		
NEIC	$M_{L2.3(STR)}$.									
LDG	**IX**	**26**	**01 06**	**30.2**	**44.8N**	**7.4E**		**1.5L**		**¶97ix3822**
ISC	**IX**	**26**	**16 35**	**24**±1.4	**44.59N**±.050	**7.3E**±.17	**10**		**8**	**0-1**
NEIC	IX	26	16 35	25.1	44.62N	7.30E	10			¶97ix4077
LDG	IX	26	16 35	25.4	44.6N	7.2E		2.3L		
NEIC	Single network solution.									
ISC	**IX**	**26**	**19 38**	**18**±1.3	**44.45N**±.047	**7.2E**±.17	**10**		**8**	**0-1**
NEIC	IX	26	19 38	18.2	44.46N	7.31E	10			¶97ix4123
LDG	IX	26	19 38	18.7	44.5N	7.3E		1.8L		
NEIC	Single network solution.									
ISC	**IX**	**26**	**22 01**	**48**±7.7	**45.18N**±.099	**7.3E**±.70	**0**		**4**	**0-1**
LDG	IX	26	22 01	47.5	45.2N	7.4E		1.5L		¶97ix4156
ISC	Poorly determined									
ISC	**IX**	**27**	**21 36**	**00**±9.5	**45.9N**±.14	**8.1E**±.76	**5**		**7**	**1-2**
LDG	IX	27	21 36	03.9	45.9N	7.9E		2.1L		¶97ix4459
NEIC	IX	27	21 36	06.9	45.83N	7.68E	5			
NEIC	Poor solution.									
ISC	**IX**	**28**	**15 52**	**23**±6.0	**45.9N**±.12	**7.4E**±.59	**10**		**5**	**1-1**
LDG	IX	28	15 52	24.4	45.9N	7.4E		2.1L		¶97ix4688
NEIC	IX	28	15 52	26.9	45.84N	7.06E	10			
ISC	Poorly determined									
NEIC	Poor solution.									
ISC	**IX**	**28**	**19 11**	**36.4**±.69	**44.55N**±.056	**10.80E**±.085	**10**		**20**	**1-6**
NEIC	IX	28	19 11	34.8	44.55N	10.97E	10			¶97ix4740
LDG	IX	28	19 11	37.7	44.5N	10.9E		2.5L		
ROM	IX	28	19 11	39.6	44.3N	10.8E	11	3.0D		
NEIC	Less reliable solution.									
ISC	**IX**	**29**	**21 01**	**34.0**±.21	**46.77N**±.017	**12.15E**±.026	**5**	4.2b	**145**	**0-63**
ROM	IX	29	21 01	33.1	46.9N	12.4E	5	3.6D		¶97ix5020
NEIC	IX	29	21 01	34.1	46.74N	12.11E	5			
SZGRF	IX	29	21 01	35.5	46.8N	12.3E	10	3.8L		
LDG	IX	29	21 01	36.7	46.7N	12.2E		3.6L		
STR	IX	29	21 01	40.0	46.83N	11.80E	5	3.7L		
NEIC	$M_{L3.7(VIE)}$									
NEIC	ML 3.5 (CLL), 3.4 (UCC). Felt I=IV MSK at Sillian, Austria.									
ISC	**IX**	**30**	**14 22**	**21.3**±.43	**44.31N**±.033	**7.19E**±.051	**10**		**22**	**0-2**
NEIC	IX	30	14 22	21.4	44.34N	7.23E	10			¶97ix5248
LDG	IX	30	14 22	22.1	44.3N	7.2E		2.5L		
NEIC	$M_{L2.6(GEN)}$									
ISC	**X**	**01**	**08 14**	**29**±1.6	**45.9N**±.17	**12.7E**±.11	**10**		**8**	**0-2**
ROM	X	01	08 14	27.9	45.8N	12.7E	10	2.4D		¶97x0055
LJU	X	01	08 14	29.3	45.9N	12.8E	30			
ISC	**X**	**02**	**05 28**	**17.4**±.57	**44.27N**±.071	**9.74E**±.054	**10**		**28**	**0-3**
LDG	X	02	05 28	15.2	44.4N	10.0E		2.8L		¶97x0214
NEIC	X	02	05 28	16.2	44.50N	9.75E	10			
ROM	X	02	05 28	17.3	44.3N	9.9E	10	2.2D		
ISC	**X**	**02**	**19 42**	**22**±11	**44.5N**±.85	**12.3E**±.43	**42**		**5**	**1-2**
ROM	X	02	19 42	23.5	44.4N	12.3E	42	2.4D		¶97x0332
ISC	**X**	**02**	**22 15**	**32**±2.1	**44.3N**±.20	**7.4E**±.31	**10**±37		**6**	**0-1**
NEIC	X	02	22 15	32.4	44.31N	7.39E	10			¶97x0349
NEIC	M_L1.6(GEN), Single network solution.									
ISC	**X**	**04**	**16 33**	**28**±1.3	**44.35N**±.096	**7.4E**±.11	**5**		**5**	**0-0**
NEIC	X	04	16 33	27.7	44.35N	7.42E	5			¶97x0688
NEIC	M_L1.6(GEN), Single network solution.									
ISC	**X**	**04**	**19 27**	**17**±2.0	**44.4N**±.18	**7.3E**±.28	**10**		**4**	**0-0**
NEIC	X	04	19 27	16.7	44.39N	7.34E	10			¶97x0711
ISC	Poorly determined									
NEIC	M_L1.4(GEN), Poor solution.									
ROM	**X**	**04**	**20 54**	**39.8**	**44.3N**	**10.7E**	**8**	**2.2D**		**¶97x0728**
ISC	**X**	**04**	**21 14**	**52**±6.1	**44.5N**±.39	**7.3E**±.29	**5**		**4**	**0-1**
NEIC	X	04	21 14	52.3	44.55N	7.29E	5			¶97x0732
ISC	Poorly determined									
NEIC	M_L1.4(GEN), Poor solution.									
ISC	**X**	**06**	**13 07**	**45**±2.3	**45.9N**±.22	**12.8E**±.14	**14**		**5**	**0-1**
LJU	X	06	13 07	40.8	45.6N	12.65E	14			¶97x1053
ISC	Poorly determined									
ISC	**X**	**07**	**15 32**	**35**±1.3	**44.45N**±.063	**8.2E**±.10	**5**		**17**	**0-2**
LDG	X	07	15 32	32.9	44.4N	8.4E		2.6L		¶97x1275
NEIC	X	07	15 32	36.0	44.41N	8.20E	5			
NEIC	Poor solution.									
ISC	**X**	**08**	**20 12**	**41.6**±.63	**44.35N**±.071	**9.51E**±.064	**27**		**29**	**0-3**
NEIC	X	08	20 12	41.0	44.27N	9.48E	10			¶97x1467
ROM	X	08	20 12	41.9	44.5N	9.5E	27	2.3D		
LDG	X	08	20 12	42.3	44.3N	9.1E		2.1L		
ISC	**X**	**08**	**21 01**	**14.2**±.47	**45.14N**±.030	**7.38E**±.056	**10**		**29**	**0-2**
ROM	X	08	21 01	13.8	45.2N	7.4E	10	2.2D		¶97x1475
NEIC	X	08	21 01	14.1	45.15N	7.42E	10			
LDG	X	08	21 01	15.0	45.2N	7.4E		2.2L		
NEIC	$M_{L2.6(GEN)}$									
ISC	**X**	**09**	**06 56**	**38.3**±.98	**45.93N**±.096	**12.77E**±.080	**10**		**14**	**0-3**
LJU	X	09	06 56	35.5	45.7N	12.6E	27			¶97x1543
ROM	X	09	06 56	37.7	45.7N	12.7E	10	2.6D		
ISC	**X**	**10**	**12 22**	**07**±1.5	**44.37N**±.053	**7.3E**±.18	**5**		**8**	**0-1**
NEIC	X	10	12 22	06.4	44.41N	7.44E	5			¶97x1750
LDG	X	10	12 22	07.0	44.4N	7.4E		2.1L		
NEIC	Single network solution.									
ISC	**X**	**13**	**03 21**	**37.1**±.51	**44.26N**±.034	**7.13E**±.058	**9**±8.3		**18**	**0-1**
NEIC	X	13	03 21	37.5	44.27N	7.18E	10			¶97x2151
LDG	X	13	03 21	38.2	44.3N	7.1E		1.7L		
NEIC	$M_{L2.1(GEN)}$									
ISC	**X**	**13**	**08 18**	**07.5**±.44	**44.83N**±.031	**10.57E**±.062	**5**		**34**	**1-5**
LDG	X	13	08 18	08.0	44.8N	10.8E		2.9L		¶97x2189
ROM	X	13	08 18	08.5	44.7N	10.7E	5	2.7D		
NEIC	X	13	08 18	09.3	44.84N	10.37E	10			
NEIC	$M_{L3.1(VIE)}$									
ISC	**X**	**13**	**15 24**	**05**±2.7	**44.3N**±.16	**7.2E**±.27	**8**±18		**7**	**0-1**
NEIC	X	13	15 24	05.6	44.31N	7.26E	5			¶97x2243
NEIC	M_L2.2(GEN), Single network solution.									
ISC	**X**	**13**	**17 41**	**55**±7.2	**44.3N**±.45	**7.2E**±.80	**13**±12		**5**	**0-1**
NEIC	X	13	17 41	56.2	44.32N	7.27E	5			¶97x2259
ISC	Poorly determined									
NEIC	M_L1.9(GEN), Single network solution.									
LDG	**X**	**14**	**16 02**	**46.5**	**44.3N**	**8.4E**		**2.7L**		**¶97x2435**
ISC	**X**	**15**	**11 03**	**42**±1.8	**44.4N**±.17	**7.3E**±.27	**10**		**4**	**0-0**
NEIC	X	15	11 03	41.6	44.36N	7.34E	10			¶97x2610
ISC	Poorly determined									
NEIC	M_L1.4(GEN), Poor solution.									
ISC	**X**	**16**	**03 43**	**19**±3.2	**45.8N**±.27	**12.7E**±.14	**8**±18		**6**	**0-2**
ROM	X	16	03 43	18.7	45.8N	12.7E	10	2.6D		¶97x2779
ISC	Poorly determined									
ISC	**X**	**16**	**05 55**	**20**±2.8	**45.33N**±.087	**7.7E**±.25	**10**		**6**	**1-2**
LDG	X	16	05 55	23.0	45.3N	7.5E		1.9L		¶97x2797
NEIC	X	16	05 55	24.3	45.27N	7.36E	10			
NEIC	Single network solution.									
ISC	**X**	**16**	**06 58**	**37**±2.8	**45.6N**±.20	**12.6E**±.16	**1**±17		**12**	**1-2**
NEIC	X	16	06 58	41.3	45.72N	12.85E	10			¶97x2805
NEIC	M_L2.6(VIE), Less reliable solution.									
ISC	**X**	**16**	**23 58**	**00.6**±.90	**44.4N**±.17	**7.3E**±.35	**14**±16		**7**	**0-1**
NEIC	X	16	23 58	00.5	44.43N	7.32E	10			¶97x2902
NEIC	M_L1.8(GEN), Single network solution.									
ISC	**X**	**17**	**22 31**	**24.6**±.90	**45.94N**±.093	**12.78E**±.069	**10**		**14**	**0-2**
NEIC	X	17	22 31	21.9	45.47N	12.66E	10			¶97x3066
ROM	X	17	22 31	23.3	45.7N	12.8E	10	2.6D		
NEIC	M_L2.4(VIE), Less reliable solution.									
ISC	**X**	**18**	**01 05**	**10.3**±.51	**46.00N**±.021	**8.27E**±.040	**6**±4.5		**69**	**0-5**
NEIC	X	18	01 05	10.7	45.97N	8.28E	10			¶97x3079
ROM	X	18	01 05	11.4	45.9N	8.2E	5	2.8D		
ZUR	X	18	01 05	11.6	46.03N	8.25E	8	2.2L		
LDG	X	18	01 05	13.5	46.0N	8.2E		2.6L		
NEIC	$M_{L2.9(STR)}$, $M_{L2.8(GEN)}$.									
NEIC	ML 2.5 (FBB).									
ISC	**X**	**18**	**19 58**	**44.3**±.39	**45.10N**±.034	**11.90E**±.046	**10**		**50**	**1-6**
ROM	X	18	19 58	43.8	45.1N	12.3E	5	3.1D		¶97x3224
NEIC	X	18	19 58	43.9	45.07N	11.89E	10			
LDG	X	18	19 58	46.9	45.1N	11.8E		2.9L		
NEIC	$M_{L3.2(VIE)}$									
ISC	**X**	**19**	**08 07**	**59**±1.9	**45.5N**±.13	**12.4E**±.15	**10**		**10**	**1-9**
NEIC	X	19	08 08	03.3	45.51N	12.71E	10			¶97x3311
NEIC	M_L2.3(VIE), Poor solution.									
ISC	**X**	**19**	**22 24**	**54.7**±.69	**44.55N**±.039	**7.2E**±.10	**10**		**12**	**0-1**
LDG	X	19	22 24	54.9	44.6N	7.3E		1.4L		¶97x3396
NEIC	X	19	22 24	54.9	44.56N	7.32E	10			
NEIC	$M_{L2.0(GEN)}$									
ROM	**X**	**19**	**22 28**	**30.3**	**44.2N**	**10.8E**	**10**	**2.4D**		**¶97x3397**
ISC	**X**	**20**	**21 15**	**00.6**±.75	**44.45N**±.066	**7.3E**±.14	**14**±9.2		**10**	**0-1**
NEIC	X	20	21 15	00.5	44.46N	7.28E	10			¶97x3559
NEIC	M_L2.2(GEN), Single network solution.									
ISC	**X**	**21**	**20 21**	**17.7**±.89	**45.75N**±.065	**12.71E**±.059	**1**±10		**21**	**0-4**
ROM	X	21	20 21	18.1	45.8N	12.7E	5	3.0D		¶97x3699
NEIC	X	21	20 21	19.8	45.69N	12.77E	10			
NEIC	M_L2.8(VIE), Less reliable solution.									
ISC	**X**	**21**	**23 04**	**26.9**±.81	**45.70N**±.046	**12.60E**±.053	**5**±8.6	3.9b	**46**	**1-64**
ROM	X	21	23 04	27.4	45.7N	12.8E	5	3.2D		¶97x3715
NEIC	X	21	23 04	27.7	45.56N	12.57E	10			
LDG	X	21	23 04	27.9	45.6N	12.9E		2.9L		

NEIC M_L3.1(VIE), M_L3.0(FUR).
ISC X 22 00 04 47±1.5 **44.3N**±.26 **7.3E**±.49 **14**±14 **5 0-1**
NEIC X 22 00 04 47.4 44.35N 7.33E 10 **¶97x3723**
ISC Poorly determined
NEIC M_L1.6(GEN), Single network solution.
ISC X 23 09 30 18.8±.60 **46.37N**±.057 **12.75E**±.063 **10 18 0-5**
ROM X 23 09 30 18.1 46.3N 12.8E 10 2.8D **¶97x3957**
NEIC X 23 09 30 19.9 46.32N 12.75E 10
NEIC M_L2.5(VIE).
ISC X 23 12 46 02.4±.82 **44.61N**±.032 **9.27E**±.047 **8**±7.1 **58 0-5**
ROM X 23 12 46 02.2 44.6N 9.3E 5 2.8D **¶97x3998**
LDG X 23 12 46 02.4 44.6N 9.5E 2.8L
NEIC X 23 12 46 02.5 44.59N 9.26E 10
STR X 23 12 46 03.2 44.42N 9.38E 10 3.0L
NEIC M_L2.9(GEN).
NEIC 2.8 (VIE).
ISC X 25 17 33 44±1.1 **44.47N**±.074 **7.3E**±.15 **11**±14 **8 0-1**
NEIC X 25 17 33 43.9 44.47N 7.30E 10 **¶97x4350**
NEIC M_L1.8(GEN), Single network solution.
ISC X 26 01 37 03.7±.45 **44.66N**±.032 **7.17E**±.085 **12**±8.2 **23 0-1**
NEIC X 26 01 37 03.9 44.67N 7.23E 10 **¶97x4401**
LDG X 26 01 37 04.0 44.7N 7.2E 1.7L
NEIC M_L2.2(GEN)
ISC X 26 15 03 29±3.2 **44.2N**±.24 **7.2E**±.43 **16**±40 **6 0-1**
NEIC X 26 15 03 28.5 44.12N 7.14E 10 **¶97x4480**
NEIC M_L1.7(GEN), Single network solution.
ISC X 26 15 35 19±5.0 **44.6N**±.23 **9.5E**±.44 **5 10 1-2**
NEIC X 26 15 35 18.8 44.63N 9.55E 5 **¶97x4491**
NEIC M_L2.0(GEN), Poor solution.
ISC X 28 00 15 13.2±.41 **44.66N**±.029 **7.14E**±.055 **10 24 0-2**
NEIC X 28 00 15 13.5 44.68N 7.24E 10 **¶97x4674**
LDG X 28 00 15 14.0 44.7N 7.2E 2.2L
NEIC M_L2.4(GEN)
ISC X 28 14 30 53.2±.53 **46.29N**±.045 **12.58E**±.052 **10 27 0-5**
ROM X 28 14 30 51.9 46.2N 12.6E 5 3.1D **¶97x4773**
NEIC X 28 14 30 54.0 46.24N 12.57E 10
NEIC M_L3.2(VIE), M_L3.1(FUR).
ISC X 29 03 18 21±3.1 **44.3N**±.24 **7.2E**±.49 **10 4 0-1**
NEIC X 29 03 18 21.2 44.30N 7.19E 10 **¶97x4844**
ISC Poorly determined
NEIC M_L1.5(GEN), Poor solution.
ISC X 29 07 12 54±1.4 **46.0N**±.13 **13.0E**±.14 **10 9 1-2**
NEIC X 29 07 12 53.2 45.56N 12.87E 10 **¶97x4874**
NEIC M_L2.6(VIE), Poor solution.
ISC X 29 12 20 53.7±.37 **44.47N**±.025 **7.29E**±.044 **7**±4.6 **38 0-2**
LDG X 29 12 20 53.8 44.5N 7.3E 2.7L **¶97x4910**
NEIC X 29 12 20 53.8 44.47N 7.31E 10
NEIC M_L2.8(GEN)
NEIC ML 2.5 (STR).
ISC X 30 15 01 11±1.4 **44.75N**±.083 **7.2E**±.18 **5 4 0-0**
NEIC X 30 15 01 10.4 44.75N 7.18E 5 **¶97x5057**
ISC Poorly determined
NEIC M_L1.4(GEN), Poor solution.
ISC X 31 11 32 12±1.0 **46.07N**±.062 **12.6E**±.10 **5 10 0-2**
ROM X 31 11 32 09.9 45.9N 12.7E 5 2.7D **¶97x5169**
ISC X 31 11 32 41.3±.91 **46.06N**±.067 **12.36E**±.090 **10 13 0-3**
ROM X 31 11 32 36.6 45.8N 12.7E 10 2.5D **¶97x5171**
LJU X 31 11 33 12.7 46.24N 14.5E 7
ISC X 31 16 15 32±2.6 **46.0N**±.14 **12.6E**±.17 **10 10 0-4**
ROM X 31 16 15 28.2 45.7N 12.8E 10 2.5D **¶97x5203**
ISC X 31 19 31 45.1±.86 **44.04N**±.061 **7.7E**±.11 **5 7 0-1**
NEIC X 31 19 31 45.0 44.04N 7.73E 5 **¶97x5217**
NEIC M_L2.2(GEN), Single network solution.
ISC XI 02 04 31 42.6±.46 **45.73N**±.038 **12.61E**±.051 **5 29 0-4**
ROM XI 02 04 31 42.6 45.7N 12.8E 5 2.7D **¶97xi0196**
NEIC XI 02 04 31 46.3 45.86N 12.81E 10
NEIC M_L2.7(VIE), Less reliable solution.
ISC XI 02 06 26 05.9±.91 **45.32N**±.050 **12.0E**±.20 **10 14 1-9**
ROM XI 02 06 26 14.7 45.8N 12.7E 10 2.2D **¶97xi0206**
ROM XI 02 14 45 02.3 44.5N 11.4E 10 2.3D ¶97xi0279
LJU XI 03 13 07 47.9 45.4N 13.8E 0 ¶97xi0469
LJU Quarry blast
ISC XI 03 13 35 23.1±.95 **44.32N**±.083 **8.69E**±.087 **5 13 0-2**
NEIC XI 03 13 35 21.3 44.40N 8.87E 5 **¶97xi0472**
LDG XI 03 13 35 22.4 44.4N 8.8E 2.5L
NEIC M_L2.1(STR), Less reliable solution.
ROM XI 05 20 55 41.2 44.4N 9.8E 10 2.1D ¶97xi0863
ISC XI 06 11 05 01±1.1 **44.44N**±.043 **7.5E**±.12 **5 16 0-2**
LDG XI 06 11 05 02.0 44.4N 7.5E 2.4L **¶97xi0966**
ROM XI 06 11 05 02.2 44.4N 7.4E 9 2.3D
NEIC XI 06 11 05 02.2 44.41N 7.46E 5
NEIC Single network solution.
ROM XI 07 01 26 38.8 44.2N 11.9E 5 2.4D ¶97xi1059
ISC XI 07 22 16 13.1±.66 **44.12N**±.036 **7.92E**±.046 **2**±5.5 **49 0-6**
NEIC XI 07 22 16 11.9 44.10N 8.07E 5 **¶97xi1176**
ROM XI 07 22 16 13.4 44.1N 7.9E 7 2.8D
LDG XI 07 22 16 13.7 44.0N 8.0E 3.0L
STR XI 07 22 16 15.2 44.09N 7.86E 2 3.2L
NEIC M_L3.0(VIE).
ISC XI 07 23 29 23.3±.88 **44.17N**±.043 **7.91E**±.081 **14**±7.5 **23 0-4**
NEIC XI 07 23 29 22.7 44.10N 8.07E 5 **¶97xi1184**
LDG XI 07 23 29 22.9 44.1N 8.0E 2.5L
NEIC M_L2.3(STR).
ISC XI 07 23 31 23±1.4 **44.19N**±.050 **8.1E**±.12 **5 15 0-2**
NEIC XI 07 23 31 24.9 44.08N 8.10E 5 **¶97xi1185**
LDG XI 07 23 31 25.3 44.1N 8.1E 2.2L
NEIC Single network solution.
ISC XI 08 01 56 06.7±.53 **44.10N**±.024 **7.95E**±.024 **11**±4.4 3.6b **137 0-40**
NEIC XI 08 01 56 06.5 44.11N 7.94E 10 **¶97xi1194**
ROM XI 08 01 56 07.1 44.1N 7.9E 9 3.4D
EIDC XI 08 01 56 07.1 44.1N 8.0E 0 3.9L,3.7b
LDG XI 08 01 56 07.5 44.0N 8.1E 4.0L
STR XI 08 01 56 08.6 44.07N 7.89E 2 4.1L
NEIC ML 3.7 (FUR)
ISC XI 08 02 06 26.5±.99 **44.20N**±.045 **7.87E**±.096 **5**±8.2 **19 0-2**
LDG XI 08 02 06 25.7 44.2N 8.0E 2.3L **¶97xi1196**
NEIC XI 08 02 06 26.3 44.10N 7.97E 5
NEIC M_L1.9(STR).
ISC XI 08 02 52 19.2±.90 **44.18N**±.045 **7.93E**±.087 **10 20 0-2**
LDG XI 08 02 52 18.5 44.1N 8.1E 2.2L **¶97xi1198**
NEIC XI 08 02 52 19.2 44.08N 8.04E 10
NEIC M_L2.0(STR).
ISC XI 08 10 35 49±2.8 **44.19N**±.084 **8.1E**±.23 **10**±19 **15 0-3**
NEIC XI 08 10 35 50.2 44.10N 8.08E 5 **¶97xi1263**
LDG XI 08 10 35 51.0 44.1N 8.0E 2.5L
NEIC M_L1.9(STR).
ROM XI 08 13 42 04.9 44.4N 10.6E 10 2.3D ¶97xi1289
ISC XI 08 15 53 38±3.4 **44.20N**±.052 **8.0E**±.31 **10 16 0-2**
LDG XI 08 15 53 39.3 44.1N 7.9E 2.2L **¶97xi1310**
NEIC XI 08 15 53 39.6 44.09N 7.94E 10
NEIC Single network solution.
ISC XI 08 20 41 53.9±.50 **44.00N**±.047 **12.09E**±.066 **10 29 0-7**
LDG XI 08 20 41 48.2 43.9N 13.0E 3.0L **¶97xi1348**
NEIC XI 08 20 41 56.7 44.14N 11.82E 10
NEIC Less reliable solution.
ISC XI 08 21 29 13±1.0 **44.18N**±.045 **7.99E**±.096 **10 18 0-2**
LDG XI 08 21 29 13.2 44.1N 8.1E 2.4L **¶97xi1354**
NEIC XI 08 21 29 13.7 44.07N 8.05E 10
NEIC M_L2.0(STR).
ISC XI 10 12 47 40±1.0 **44.10N**±.086 **7.93E**±.092 **12**±10 **8 0-1**
NEIC XI 10 12 47 40.2 44.13N 7.92E 5 **¶97xi1616**
NEIC M_L2.0(GEN), Single network solution.
ISC XI 10 15 27 22±1.1 **44.46N**±.078 **7.3E**±.16 **5 5 0-0**
NEIC XI 10 15 27 22.3 44.46N 7.31E 5 **¶97xi1627**
NEIC M_L1.7(GEN), Single network solution.
ISC XI 11 00 54 38±1.6 **44.10N**±.092 **7.9E**±.12 **12**±16 **6 0-1**
NEIC XI 11 00 54 38.5 44.10N 7.93E 10 **¶97xi1703**
NEIC M_L1.7(GEN), Single network solution.
ISC XI 12 06 19 46±1.6 **44.64N**±.097 **7.0E**±.27 **15**±14 **5 0-1**
NEIC XI 12 06 19 46.5 44.64N 7.00E 10 **¶97xi1947**
ISC Poorly determined
NEIC M_L1.8(GEN), Single network solution.
ISC XI 13 08 12 27.6±.44 **44.27N**±.031 **7.28E**±.056 **10 21 0-1**
NEIC XI 13 08 12 27.6 44.32N 7.34E 10 **¶97xi2097**
LDG XI 13 08 12 29.3 44.2N 7.2E 2.0L
NEIC M_L2.3(GEN)
ISC XI 13 08 28 11±2.2 **44.4N**±.15 **7.5E**±.20 **10 5 0-1**
NEIC XI 13 08 28 11.1 44.36N 7.47E 10 **¶97xi2102**
NEIC M_L1.7(GEN), Single network solution.
ISC XI 13 14 39 10.2±.70 **44.26N**±.038 **7.43E**±.076 **10 16 0-2**
NEIC XI 13 14 39 09.9 44.25N 7.53E 10 **¶97xi2155**
LDG XI 13 14 39 10.4 44.3N 7.4E 2.7L
NEIC M_L2.5(STR).
ISC XI 14 12 14 15.5±.46 **44.53N**±.033 **7.21E**±.060 **10 19 0-1**
NEIC XI 14 12 14 15.7 44.55N 7.27E 10 **¶97xi2288**
LDG XI 14 12 14 16.1 44.6N 7.2E 2.0L
NEIC M_L2.3(GEN)
LJU XI 15 03 53 52.0 45.9N 13.97E 15 ¶97xi2412
ISC XI 15 06 30 40±1.2 **45.01N**±.079 **7.2E**±.19 **14**±12 **5 0-1**
NEIC XI 15 06 30 40.0 45.01N 7.16E 10 **¶97xi2432**
ISC Poorly determined
NEIC M_L1.7(GEN), Single network solution.
ISC XI 15 10 26 16±4.2 **44.1N**±.18 **7.1E**±.34 **13**±14 **7 0-1**
NEIC XI 15 10 26 15.2 44.09N 7.03E 10 **¶97xi2461**
NEIC M_L2.1(GEN), Single network solution.
ISC XI 15 14 03 35.8±.97 **44.54N**±.076 **7.4E**±.16 **12**±13 **7 0-1**
NEIC XI 15 14 03 35.6 44.54N 7.38E 10 **¶97xi2487**
NEIC M_L1.9(GEN), Single network solution.
ROM XI 15 15 43 27.3 44.3N 10.2E 10 2.1D ¶97xi2501
ISC XI 16 04 12 03.4±.49 **44.01N**±.031 **7.07E**±.045 **4**±7.4 **25 0-2**
LDG XI 16 04 12 03.7 44.0N 7.1E 1.7L **¶97xi2593**
NEIC XI 16 04 12 03.8 43.99N 7.11E 10
NEIC M_L2.2(GEN), M_L2.1(STR).
NEIC ML 1.7 (LDG).
ISC XI 17 00 40 48±2.4 **44.1N**±.20 **12.0E**±.15 **13**±16 **5 0-1**
ROM XI 17 00 40 47.9 44.1N 12.0E 18 2.2D **¶97xi2716**
ISC Poorly determined
ISC XI 17 00 45 46±2.6 **44.1N**±.20 **12.0E**±.12 **13**±14 **6 0-1**
ROM XI 17 00 45 45.0 44.2N 12.0E 13 2.5D **¶97xi2717**
ISC XI 17 00 52 30.9±.75 **44.23N**±.030 **12.01E**±.036 **19**±10 **86 0-10**
NEIC XI 17 00 52 30.0 44.26N 11.98E 10 **¶97xi2719**
ROM XI 17 00 52 30.2 44.2N 12.0E 5 3.3D
LDG XI 17 00 52 33.2 44.3N 12.0E 3.6L
STR XI 17 00 52 39.4 44.54N 11.22E 10 3.7L
NEIC M_L3.7(STR)
NEIC ML 3.3 (VIE).
ISC XI 17 01 01 26±2.7 **44.1N**±.25 **12.0E**±.18 **22**±24 **5 0-1**
ROM XI 17 01 01 24.6 44.2N 12.0E 7 2.5D **¶97xi2721**
ISC Poorly determined
ISC XI 17 01 17 56.3±.81 **44.20N**±.040 **11.99E**±.045 **20**±12 **55 0-7**
NEIC XI 17 01 17 55.0 44.21N 11.97E 10 **¶97xi2723**
ROM XI 17 01 17 55.7 44.2N 12.0E 5 3.1D
LDG XI 17 01 17 57.4 44.2N 12.0E 3.3L
STR XI 17 01 18 06.6 44.73N 11.27E 10 3.4L
NEIC M_L3.4(STR)
NEIC ML 3.0 (VIE).
ISC XI 17 02 07 18±1.1 **44.23N**±.036 **11.97E**±.044 **12**±9.8 **51 0-7**
NEIC XI 17 02 07 17.3 44.24N 11.97E 10 **¶97xi2730**
ROM XI 17 02 07 17.6 44.2N 12.0E 5 2.9D
LDG XI 17 02 07 19.6 44.3N 12.0E 3.1L
STR XI 17 02 07 28.1 44.62N 11.18E 10 3.3L
NEIC ML 2.8 (VIE).
ISC XI 17 03 16 39±3.1 **44.2N**±.19 **12.0E**±.18 **6 5 0-1**
ROM XI 17 03 16 38.6 44.2N 12.1E 6 2.5D **¶97xi2731**
ISC XI 17 10 51 17±3.2 **44.27N**±.096 **7.5E**±.32 **5 5 0-1**
NEIC XI 17 10 51 14.5 44.35N 7.71E 5 **¶97xi2781**
LDG XI 17 10 51 15.9 44.3N 7.6E 2.1L
NEIC Poor solution.
LDG XI 17 10 59 55.6 44.4N 8.4E 2.3L ¶97xi2782
ROM XI 23 11 58 13.5 44.2N 10.3E 10 2.1D ¶97xi4113
ISC XI 24 02 21 54.1±.73 **44.66N**±.049 **7.2E**±.15 **13**±10 **11 0-1**
NEIC XI 24 02 21 54.0 44.67N 7.22E 10 **¶97xi4247**
NEIC M_L2.0(GEN), Single network solution.
ISC XI 24 02 22 04.9±.49 **44.20N**±.037 **12.81E**±.063 **5 32 1-7**
ROM XI 24 02 22 04.4 44.2N 13.2E 5 2.4D **¶97xi4248**
NEIC XI 24 02 22 06.5 44.21N 12.68E 10
LDG XI 24 02 22 08.8 44.2N 12.7E 2.9L
NEIC Less reliable solution.
ROM XI 24 14 51 18.7 44.2N 10.4E 10 2.0D ¶97xi4330
ISC XI 25 14 07 59±1.2 **44.42N**±.048 **7.5E**±.14 **5 9 1-2**
NEIC XI 25 14 07 59.6 44.43N 7.55E 5 **¶97xi4530**
LDG XI 25 14 08 00.7 44.4N 7.5E 2.3L

Agency	Origin Time mo d h m s	ϕ °	λ °	h km	Mag	n	Δ-Rng °
NEIC	Single network solution.						
ISC	**XI 27 19 30 06**±1.6	**44.84N**±.026	**10.67E**±.041	**9**±14		**78**	**1-7**
NEIC	XI 27 19 30 05.9	44.87N	10.62E	10			**¶97xi4923**
LDG	XI 27 19 30 06.0	44.8N	10.9E		3.4L		
ROM	XI 27 19 30 06.2	44.8N	10.7E	8	3.2D		
STR	XI 27 19 30 12.1	45.24N	10.56E	10	3.2L		
NEIC	M_L3.3(VIE).						
NEIC	ML 3.2 (STR).						
ISC	**XI 28 00 49 08**±2.7	**45.5N**±.23	**10.9E**±.16	**5**		**6**	**0-2**
ROM	XI 28 00 49 09.0	45.6N	10.9E	5	2.2D		**¶97xi4976**
ISC	**XI 28 09 58 54**±1.7	**44.8N**±.14	**7.2E**±.33	**14**±19		**5**	**0-1**
NEIC	XI 28 09 58 54.3	44.81N	7.19E	10			**¶97xi5056**
ISC	Poorly determined						
NEIC	M_L2.0(GEN), Single network solution.						
ISC	**XI 28 20 10 00**±1.3	**44.95N**±.094	**7.1E**±.14	**10**		**4**	**0-0**
NEIC	XI 28 20 10 00.3	44.95N	7.06E	10			**¶97xi5137**
ISC	Poorly determined						
NEIC	M_L1.9(GEN), Poor solution.						
ISC	**XI 29 04 36 13**±1.3	**44.40N**±.080	**7.3E**±.16	**13**±15		**7**	**0-1**
NEIC	XI 29 04 36 12.9	44.41N	7.35E	5			**¶97xi5199**
NEIC	M_L1.9(GEN), Single network solution.						
ISC	**XII 01 12 02 22.6**±.87	**44.10N**±.070	**7.93E**±.087	**13**±8.7		**10**	**0-1**
NEIC	XII 01 12 02 22.6	44.11N	7.93E	10			**¶97xii0080**
NEIC	M_L2.1(GEN), Single network solution.						
ISC	**XII 02 04 13 36**±1.9	**45.07N**±.065	**7.3E**±.27	**10**		**5**	**0-1**
NEIC	XII 02 04 13 35.9	45.08N	7.34E	10			**¶97xii0181**
NEIC	M_L2.0(GEN), Single network solution.						
ISC	**XII 02 06 50 32.9**±.85	**46.63N**±.050	**11.43E**±.090	**10**		**15**	**0-3**
ROM	XII 02 06 50 32.0	46.6N	11.3E	10	2.7D		**¶97xii0197**
NEIC	XII 02 06 50 33.1	46.63N	11.36E	10			
NEIC	M_L2.6(VIE).						
ISC	**XII 02 07 16 53.8**±.77	**44.72N**±.034	**9.10E**±.041	**8**±7.2		**46**	**0-7**
STR	XII 02 07 16 50.5	44.53N	9.48E	6	3.5L		**¶97xii0204**
ROM	XII 02 07 16 53.7	44.7N	9.1E	5	3.1D		
NEIC	XII 02 07 16 53.9	44.72N	9.08E	10			
ISC	**XII 02 12 44 26.2**±.76	**44.75N**±.053	**10.8E**±.15	**5**		**8**	**1-3**
ROM	XII 02 12 44 27.1	44.7N	10.7E	5	2.5D		**¶97xii0248**
LJU	**XII 03 06 49 53.1**	**45.9N**	**13.9E**	**18**			**¶97xii0371**
ISC	**XII 03 06 54 04.0**±.37	**44.95N**±.026	**10.39E**±.046	**10**		**75**	**1-6**
LDG	XII 03 06 54 03.4	44.9N	10.7E		3.3L		**¶97xii0373**
NEIC	XII 03 06 54 04.3	44.95N	10.29E	10			
ROM	XII 03 06 54 04.8	44.9N	10.5E	10	3.2D		
STR	XII 03 06 54 07.3	45.06N	10.15E	10	3.4L		
NEIC	M_L3.4(VIE).						
NEIC	ML 3.3 (LDG).						
NEIC	**XII 03 07 00 25.9**	**44.72N**	**10.33E**	**10**			**1-3**
ROM	XII 03 07 00 22.7	44.9N	10.7E	5	2.5D		**¶97xii0374**
NEIC	M_L2.8(VIE), Less reliable solution.						
ISC	**XII 03 07 18 22**±3.0	**44.9N**±.17	**10.4E**±.28	**10**		**13**	**1-4**
NEIC	XII 03 07 18 20.3	45.00N	10.56E	10			**¶97xii0377**
LDG	XII 03 07 18 21.2	45.0N	10.7E		2.9L		
NEIC	Less reliable solution.						
ISC	**XII 04 11 31 59.9**±.72	**44.81N**±.053	**10.62E**±.088	**10**		**25**	**1-5**
LDG	XII 04 11 31 57.2	44.8N	11.1E		2.7L		**¶97xii0604**
ROM	XII 04 11 31 59.5	44.7N	10.9E	10	2.6D		
NEIC	XII 04 11 32 00.3	44.76N	10.51E	10			
STR	XII 04 11 32 01.7	45.07N	10.5E	10	3.1L		
NEIC	M_L2.8(VIE)						
ISC	**XII 05 12 13 14.1**±.54	**44.06N**±.037	**7.64E**±.050	**10**±7.4		**22**	**0-2**
LDG	XII 05 12 13 13.8	44.1N	7.7E		2.4L		**¶97xii0854**
NEIC	XII 05 12 13 14.4	44.04N	7.66E	5			
NEIC	M_L2.1(GEN).						
ISC	**XII 05 21 08 40**±5.4	**44.5N**±.11	**7.1E**±.77	**12**±27		**5**	**0-1**
NEIC	XII 05 21 08 40.5	44.51N	7.13E	10			**¶97xii1094**
ISC	Poorly determined						
NEIC	M_L1.7(GEN), Single network solution.						
ISC	**XII 05 21 24 47**±1.6	**44.4N**±.10	**7.3E**±.21	**15**±30		**9**	**0-1**
NEIC	XII 05 21 24 46.9	44.38N	7.33E	10			**¶97xii1104**
NEIC	M_L2.0(GEN), Single network solution.						
ISC	**XII 05 23 33 54**±1.5	**44.29N**±.094	**8.8E**±.15	**10**±9.8		**13**	**0-1**
NEIC	XII 05 23 33 54.1	44.29N	8.84E	10			**¶97xii1150**
NEIC	M_L2.1(GEN), Single network solution.						
ISC	**XII 06 02 03 56.9**±.91	**44.44N**±.061	**10.69E**±.093	**21**±11		**26**	**0-6**
NEIC	XII 06 02 03 52.5	44.45N	11.01E	10			**¶97xii1200**
STR	XII 06 02 03 53.8	44.4N	11.1E	10	3.2L		
LDG	XII 06 02 03 53.8	44.4N	11.1E		2.7L		
ROM	XII 06 02 03 57.4	44.3N	10.7E	15	2.5D		
NEIC	Less reliable solution.						
ISC	**XII 06 02 25 35**±1.4	**44.3N**±.12	**10.7E**±.11	**5**		**5**	**0-1**
ROM	XII 06 02 25 34.4	44.3N	10.7E	5	2.3D		**¶97xii1207**
ISC	**XII 06 09 54 31**±1.5	**44.3N**±.10	**8.8E**±.13	**4**±13		**10**	**0-1**
NEIC	XII 06 09 54 30.6	44.29N	8.81E	5			**¶97xii1346**
NEIC	M_L2.0(GEN), Single network solution.						
ISC	**XII 06 17 03 31**±3.2	**44.1N**±.13	**7.1E**±.26	**11**±10		**9**	**0-1**
NEIC	XII 06 17 03 31.3	44.09N	7.09E	10			**¶97xii1471**
NEIC	M_L2.1(GEN).						
ISC	**XII 08 00 24 34**±1.3	**44.2N**±.14	**10.0E**±.15	**10**		**5**	**0-1**
ROM	XII 08 00 24 34.2	44.2N	10.1E	10	2.0D		**¶97xii1825**
ISC	**XII 09 09 03 16**±1.8	**44.50N**±.089	**7.4E**±.19	**21**±43		**9**	**0-1**
NEIC	XII 09 09 03 15.4	44.51N	7.43E	20			**¶97xii2136**
NEIC	M_L2.1(GEN), Single network solution.						
ISC	**XII 10 13 37 36**±1.3	**44.1N**±.15	**10.92E**±.094	**10**		**5**	**0-1**
ROM	XII 10 13 37 35.6	44.1N	10.9E	10	2.3D		**¶97xii2362**
ISC	**XII 10 21 40 18**±1.1	**44.1N**±.14	**10.93E**±.089	**10**		**6**	**0-1**
ROM	XII 10 21 40 16.9	44.1N	10.9E	10	2.5D		**¶97xii2433**
ISC	**XII 11 01 20 06**±1.3	**44.1N**±.15	**10.91E**±.094	**10**		**5**	**0-1**
ROM	XII 11 01 20 05.9	44.1N	10.9E	10	2.2D		**¶97xii2463**
ISC	**XII 11 02 28 59.6**±.91	**44.0N**±.12	**10.94E**±.086	**10**		**7**	**0-1**
ROM	XII 11 02 28 58.4	44.1N	10.9E	10	2.6D		**¶97xii2470**
ISC	**XII 11 03 05 46.9**±.81	**44.1N**±.11	**10.93E**±.078	**10**		**9**	**0-2**
ROM	XII 11 03 05 46.1	44.1N	10.9E	10	2.7D		**¶97xii2473**
ISC	**XII 11 03 49 43**±1.2	**44.0N**±.15	**10.95E**±.093	**10**		**5**	**0-1**
ROM	XII 11 03 49 42.2	44.1N	10.9E	10	2.4D		**¶97xii2482**
ISC	**XII 11 03 59 39**±1.8	**44.1N**±.19	**10.9E**±.11	**10**		**4**	**0-1**
ROM	XII 11 03 59 38.6	44.1N	10.9E	10	2.1D		**¶97xii2486**
ISC	Poorly determined						
ISC	**XII 11 07 13 49**±1.4	**44.1N**±.16	**10.93E**±.094	**10**		**5**	**0-1**
ROM	XII 11 07 13 48.7	44.1N	10.9E	10	2.2D		**¶97xii2512**
ISC	**XII 11 12 56 51.1**±.83	**44.91N**±.059	**8.5E**±.14	**28**±13		**17**	**0-1**
ROM	XII 11 12 56 49.9	44.9N	8.4E	5	2.4D		**¶97xii2569**
NEIC	XII 11 12 56 50.0	44.94N	8.53E	20			
NEIC	M_L2.6(GEN), Single network solution.						
ISC	**XII 12 16 13 37.0**±.41	**44.48N**±.027	**7.27E**±.051	**5**±8.5		**28**	**0-2**
ROM	XII 12 16 13 36.8	44.5N	7.3E	10	2.0D		**¶97xii2780**
NEIC	XII 12 16 13 37.1	44.49N	7.29E	5			
LDG	XII 12 16 13 37.5	44.5N	7.3E		2.3L		
NEIC	M_L2.5(GEN)						
NEIC	ML 2.3 (STR).						
ISC	**XII 13 02 54 31.4**±.62	**44.07N**±.040	**10.92E**±.039	**21**±8.5		**59**	**0-6**
NEIC	XII 13 02 54 29.2	44.03N	11.00E	10			**¶97xii2866**
ROM	XII 13 02 54 30.2	44.1N	11.0E	5	2.8D		
LDG	XII 13 02 54 30.5	44.0N	11.1E		2.9L		
STR	XII 13 02 54 37	44.3N	10.31E	10	3.0L		
NEIC	M_L3.0(STR)						
ISC	**XII 14 01 12 25**±6.3	**45.6N**±.30	**11.3E**±.41	**5**		**7**	**0-2**
ROM	XII 14 01 12 28.5	45.8N	11.6E	5	2.2D		**¶97xii3054**
ISC	**XII 14 21 00 39**±1.7	**44.1N**±.19	**10.9E**±.11	**10**		**4**	**0-1**
ROM	XII 14 21 00 38.7	44.1N	10.9E	10	2.3D		**¶97xii3194**
ISC	Poorly determined						
ISC	**XII 15 01 36 36.4**±.97	**44.0N**±.12	**10.94E**±.084	**5**		**6**	**0-1**
ROM	XII 15 01 36 35.0	44.1N	10.9E	5	2.5D		**¶97xii3222**
LJU	**XII 15 13 40 07.0**	**45.9N**	**13.7E**	**26**			**¶97xii3295**
ISC	**XII 16 03 14 00.3**±.49	**44.10N**±.048	**10.92E**±.052	**5**		**25**	**0-6**
NEIC	XII 16 03 13 59.2	43.96N	11.04E	5			**¶97xii3376**
ROM	XII 16 03 14 00.1	44.1N	10.9E	5	2.7D		
LDG	XII 16 03 14 00.6	44.0N	11.1E		2.7L		
ISC	**XII 17 22 06 38**±1.2	**44.1N**±.14	**10.90E**±.093	**10**		**5**	**0-1**
ROM	XII 17 22 06 37.8	44.1N	10.9E	10	2.4D		**¶97xii3666**
ISC	**XII 18 21 21 45.9**±.99	**44.37N**±.072	**7.4E**±.13	**12**±11		**8**	**0-1**
NEIC	XII 18 21 21 45.9	44.37N	7.36E	10			**¶97xii3832**
NEIC	M_L2.0(GEN), Single network solution.						
ISC	**XII 19 00 23 58**±3.3	**44.98N**±.059	**9.8E**±.51	**5**		**11**	**1-5**
ROM	XII 19 00 24 04.2	44.8N	10.7E	5	2.7D		**¶97xii3860**
ISC	**XII 19 20 30 27**±1.5	**44.61N**±.097	**7.0E**±.28	**15**±12		**5**	**0-0**
NEIC	XII 19 20 30 26.8	44.60N	7.03E	10			**¶97xii4032**
ISC	Poorly determined						
NEIC	M_L1.7(GEN), Single network solution.						
ISC	**XII 20 07 02 47.5**±.52	**44.56N**±.033	**7.08E**±.091	**12**±7.4		**19**	**0-1**
NEIC	XII 20 07 02 47.9	44.58N	7.17E	10			**¶97xii4092**
LDG	XII 20 07 02 48.2	44.6N	7.2E		2.3L		
NEIC	M_L2.3(GEN)						
NEIC	ML 2.1 (STR).						
ISC	**XII 20 18 41 01.0**±.40	**44.22N**±.027	**7.36E**±.042	**2**±6.1		**34**	**0-2**
LDG	XII 20 18 41 00.6	44.2N	7.4E		2.6L		**¶97xii4149**
NEIC	XII 20 18 41 01.2	44.21N	7.40E	10			
NEIC	M_L2.7(GEN)						
NEIC	ML 2.5 (STR).						
ISC	**XII 21 02 28 09**±1.2	**44.1N**±.14	**10.88E**±.093	**10**		**5**	**0-1**
ROM	XII 21 02 28 08.7	44.1N	10.9E	10	2.5D		**¶97xii4198**
ISC	**XII 21 04 52 16**±1.9	**44.3N**±.17	**7.3E**±.23	**18**±26		**8**	**0-1**
NEIC	XII 21 04 52 16.4	44.39N	7.35E	10			**¶97xii4214**
NEIC	M_L2.0(GEN), Single network solution.						
ISC	**XII 21 15 45 01**±1.4	**44.1N**±.16	**10.96E**±.090	**5**		**5**	**0-1**
ROM	XII 21 15 45 00.0	44.1N	11.0E	5	2.6D		**¶97xii4270**
ROM	**XII 21 18 33 22.1**	**44.1N**	**10.9E**	**5**	**2.1D**		**¶97xii4292**
ISC	**XII 22 06 18 52**±2.4	**44.4N**±.22	**7.5E**±.32	**13**±22		**5**	**0-1**
NEIC	XII 22 06 18 51.8	44.40N	7.49E	10			**¶97xii4366**
ISC	Poorly determined						
NEIC	M_L1.7(GEN), Single network solution.						
ISC	**XII 22 13 53 40**±2.1	**44.4N**±.16	**7.4E**±.23	**10**		**4**	**0-0**
NEIC	XII 22 13 53 39.5	44.36N	7.41E	10			**¶97xii4431**
ISC	Poorly determined						
NEIC	M_L1.6(GEN), Poor solution.						
ISC	**XII 24 08 02 10**±3.1	**44.4N**±.10	**8.6E**±.29	**5**		**9**	**0-1**
NEIC	XII 24 08 02 09.7	44.39N	8.57E	5			**¶97xii4722**
NEIC	M_L2.2(GEN), Single network solution.						
ISC	**XII 24 17 53 09.7**±.48	**44.08N**±.019	**10.53E**±.019	**22**±5.1	**4.2b**	**240**	**0-130**
EIDC	XII 24 17 53 06.4±1.34	43.8N	10.6E	0	4.0b,4.4L		**¶97xii4796**
BJI	XII 24 17 53 08.4	44.10N	10.50E	10			
NEIC	XII 24 17 53 08.4	44.09N	10.55E	10	4.3b		
ROM	XII 24 17 53 09.4	44.1N	10.6E	4	4.1D		
STR	XII 24 17 53 09.9	43.98N	10.76E	10	4.8L		
MDD	XII 24 17 53 10.3	44.1N	10.6E	15	4.6b		
LDG	XII 24 17 53 10.5	44.0N	10.6E		4.4L		
EIDC	Error ellipse is semi−major=30.6km semi−minor=22.2km azimuth=143						
NEIC	M_L4.6(VIE).						
NEIC	ML 4.4 (LDG), 4.4 (FUR).						
ISC	**XII 24 18 21 25.3**±.64	**44.07N**±.070	**10.50E**±.074	**10**		**19**	**1-6**
NEIC	XII 24 18 21 23.4	44.05N	10.68E	10			**¶97xii4799**
LDG	XII 24 18 21 27.3	44.0N	10.4E		2.5L		
NEIC	Single network solution.						
ISC	**XII 24 18 25 50**±3.0	**44.14N**±.097	**10.4E**±.35	**10**		**8**	**2-5**
NEIC	XII 24 18 25 50.0	44.14N	10.38E	10			**¶97xii4800**
NEIC	Single network solution.						
ISC	**XII 24 18 30 54**±1.7	**44.12N**±.083	**10.5E**±.11	**21**±21		**15**	**0-5**
ROM	XII 24 18 30 52.8	44.1N	10.6E	5	2.4D		**¶97xii4803**
NEIC	XII 24 18 30 53.3	44.13N	10.44E	10			
LDG	XII 24 18 30 55.4	44.1N	10.4E		2.5L		
NEIC	Single network solution.						
ISC	**XII 24 18 51 18**±3.0	**44.08N**±.093	**10.6E**±.33	**10**		**13**	**2-5**
NEIC	XII 24 18 51 17.5	44.09N	10.64E	10			**¶97xii4807**
LDG	XII 24 18 51 20.0	44.0N	10.5E		2.3L		
NEIC	Single network solution.						
ISC	**XII 24 20 03 09**±1.4	**44.55N**±.079	**7.4E**±.18	**10**		**5**	**0-1**
NEIC	XII 24 20 03 08.9	44.55N	7.41E	10			**¶97xii4814**
NEIC	M_L1.8(GEN), Single network solution.						
ROM	**XII 24 20 48 09.2**	**44.1N**	**10.5E**	**10**	**2.2D**		**¶97xii4821**
ISC	**XII 24 21 17 54**±1.1	**44.13N**±.090	**10.5E**±.11	**10**		**12**	**0-3**
ROM	XII 24 21 17 52.7	44.2N	10.5E	14	2.3D		**¶97xii4824**
NEIC	XII 24 21 17 59.3	44.04N	9.95E	10			
LDG	XII 24 21 18 00.2	44.0N	10.1E		2.1L		
NEIC	Less reliable solution.						
ISC	**XII 25 15 05 15**±1.3	**45.9N**±.13	**12.64E**±.094	**16**		**9**	**0-2**
LJU	XII 25 15 05 11.1	45.64N	12.65E	16			**¶97xii4948**
ROM	XII 25 15 05 12.9	45.8N	12.8E	10	2.3D		
ISC	**XII 26 13 24 18.8**±.53	**44.10N**±.029	**10.47E**±.029	**19**±6.3	3.3b	**99**	**0-65**
NEIC	XII 26 13 24 16.8	44.05N	10.55E	10	3.5b		**¶97xii5132**
ROM	XII 26 13 24 18.2	44.1N	10.5E	5	3.2D		
LDG	XII 26 13 24 20.5	44.0N	10.4E		3.5L		
STR	XII 26 13 24 21.4	44.23N	10.24E	10	3.7L		

NEIC ML 3.4 (VIE).
ISC XII 27 04 58 21±1.3 **44.4N**±.17 **7.3E**±.33 **14**±18 **6 0-1**
NEIC XII 27 04 58 20.7 44.38N 7.35E 10 **¶97xii5252**
NEIC M_L1.8(GEN), Single network solution.
ISC XII 27 04 59 29±3.3 **44.3N**±.19 **7.3E**±.32 **21**±32 **6 0-1**
NEIC XII 27 04 59 29.0 44.37N 7.35E 10 **¶97xii5253**
NEIC M_L1.7(GEN), Single network solution.
ISC XII 27 05 30 25±1.2 **44.4N**±.11 **7.3E**±.22 **14**±12 **8 0-1**
NEIC XII 27 05 30 25.2 44.37N 7.34E 10 **¶97xii5256**
NEIC M_L2.0(GEN), Single network solution.
ISC XII 27 06 14 46±10 **44.0N**±.45 **7.0E**±.60 **10** **4 0-1**
NEIC XII 27 06 14 46.3 44.04N 7.05E 10 **¶97xii5262**
ISC Poorly determined
NEIC M_L1.6(GEN), Poor solution.
ISC XII 27 17 39 45±1.0 **44.73N**±.049 **10.9E**±.17 **3**±11 **26 1-6**
NEIC XII 27 17 39 47.0 44.70N 10.63E 5 **¶97xii5328**
LDG XII 27 17 39 49.2 44.6N 10.7E 2.8L
ROM XII 27 17 39 49.3 44.6N 10.7E 7 2.6D
NEIC M_L2.6(VIE).
ISC XII 28 00 20 35.6±.72 **44.09N**±.051 **10.46E**±.060 **14**±5.8 **25 0-6**
ROM XII 28 00 20 33.8 44.1N 10.5E 5 2.5D **¶97xii5364**
NEIC XII 28 00 20 36.7 44.19N 10.34E 10
LDG XII 28 00 20 39.1 44.2N 10.3E 2.7L
ISC XII 29 03 51 01.9±.63 **46.39N**±.053 **12.83E**±.065 **10** **17 0-5**
ROM XII 29 03 51 01.0 46.4N 12.9E 5 2.7D **¶97xii5541**
NEIC XII 29 03 51 02.4 46.36N 12.84E 10
NEIC M_L2.3(VIE), M_D1.9(LJU).
ISC XII 29 08 31 22.1±.88 **44.36N**±.042 **7.3E**±.11 **10** **12 0-2**
NEIC XII 29 08 31 22.5 44.35N 7.36E 10 **¶97xii5564**
LDG XII 29 08 31 22.9 44.4N 7.4E 2.5L
ISC XII 30 11 24 17±2.5 **44.31N**±.082 **7.4E**±.26 **5** **6 0-1**
LDG XII 30 11 24 16.1 44.4N 7.6E 1.9L **¶97xii5725**
NEIC XII 30 11 24 16.4 44.34N 7.49E 5
NEIC Single network solution.
ROM XII 30 15 44 06.6 44.4N 11.4E 5 2.4D ¶97xii5751
ISC XII 30 16 09 45±1.4 **44.59N**±.075 **7.2E**±.25 **5** **4 0-1**
NEIC XII 30 16 09 45.1 44.58N 7.15E 5 **¶97xii5754**
ISC Poorly determined
NEIC M_L1.9(GEN), Poor solution.
ISC XII 31 03 27 21±2.9 **44.4N**±.22 **7.3E**±.31 **10** **4 0-1**
NEIC XII 31 03 27 21.4 44.44N 7.34E 10 **¶97xii5829**
ISC Poorly determined
NEIC M_L1.5(GEN), Poor solution.
ISC XII 31 11 46 05±2.4 **44.30N**±.079 **7.4E**±.25 **5** **6 0-1**
NEIC XII 31 11 46 04.6 44.32N 7.48E 5 **¶97xii5889**
LDG XII 31 11 46 04.7 44.3N 7.5E 2.0L
NEIC Single network solution.
ISC XII 31 13 23 46.7±.83 **44.11N**±.079 **7.6E**±.11 **15**±7.8 **9 0-1**
NEIC XII 31 13 23 46.9 44.13N 7.58E 10 **¶97xii5903**
NEIC M_L1.9(GEN), Single network solution.
ISC XII 31 18 15 41.2±.57 **44.08N**±.050 **10.24E**±.066 **5** **18 0-5**
ROM XII 31 18 15 40.3 44.2N 10.3E 5 2.5D **¶97xii5940**
NEIC XII 31 18 15 40.6 44.08N 10.25E 5
LDG XII 31 18 15 43.9 44.0N 10.2E 2.5L
NEIC Less reliable solution.

(546) Austria.

ISC VII 02 20 40 52±3.7 **47.5N**±.20 **10.8E**±.40 **6**±52 **8 0-2**
NEIC VII 02 20 40 52.2 47.44N 10.87E 10 **¶97vii0299**
NEIC M_L1.7(VIE), Less reliable solution.
ISC VII 03 00 50 34.8±.67 **47.27N**±.050 **10.71E**±.071 **10** **15 0-3**
NEIC VII 03 00 50 36.5 47.22N 10.89E 10 **¶97vii0330**
NEIC M_L2.0(VIE), M_L1.7(FUR).
ISC VII 08 00 48 22±5.2 **47.3N**±.37 **16.8E**±.46 **33** **6 1-3**
ISC ML2.3 (after ARSA) ML2.7 (after MOA) **¶97vii1110**
ISC VII 12 15 18 22.7±.25 **47.23N**±.024 **11.36E**±.030 **10** **86 0-8**
NEIC VII 12 15 18 22.8 47.21N 11.35E 10 **¶97vii1831**
ROM VII 12 15 18 23.5 47.1N 11.5E 5 2.9D
LEDBW VII 12 15 18 24.1 47.24N 11.35E 7 3.3L
LDG VII 12 15 18 24.7 47.3N 11.3E 3.1L
SZGRF VII 12 15 18 27.0 47.3N 11.3E 10 3.3L
STR VII 12 15 18 27.8 47.32N 11.05E 3 3.3L
NEIC M_L3.3(GRF), M_L3.1(VIE)
NEIC ML 3.0 (FUR). Felt I=IV MSK at Axams.
ISC VII 15 04 56 31.7±.54 **47.61N**±.049 **12.58E**±.059 **5** **19 0-3**
NEIC VII 15 04 56 31.7 47.48N 12.59E 5 **¶97vii2256**
NEIC M_L2.5(VIE).
ISC VII 19 11 37 07.9±.46 **47.36N**±.037 **11.22E**±.058 **10** **23 0-3**
NEIC VII 19 11 37 07.9 47.31N 11.21E 10 **¶97vii2864**
SZGRF VII 19 11 37 12.4 47.5N 11.1E 10 2.3L
NEIC M_L2.3(FUR).
NEIC ML 2.1 (VIE).
ISC VII 19 22 33 37.7±.91 **47.82N**±.074 **16.4E**±.10 **10** **15 0-4**
NEIC VII 19 22 33 37.9 47.86N 16.40E 10 **¶97vii2965**
SZGRF VII 19 22 33 48.5 48.2N 15.9E 10 2.9L
NEIC M_L2.9(VIE), M_L2.5(BRA)
NEIC Felt I=IV MM at Wiener Neustadt.
LJU VII 24 21 28 25.1 46.51N 13.7E 6 ¶97vii3722
ISC VII 29 21 22 57.4±.78 **47.31N**±.063 **11.36E**±.072 **8**±13 **15 0-4**
NEIC VII 29 21 22 57.9 47.29N 11.33E 5 **¶97vii4485**
NEIC M_L2.2(VIE).
LJU VII 30 21 57 18.8 46.3N 13.0E 9 ¶97vii4640
LJU VII 31 11 29 20.9 46.2N 13.4E 11 ¶97vii4721
ISC VIII 02 01 36 16±1.0 **47.87N**±.085 **15.28E**±.099 **0** **5 1-2**
ISC ML2.1 (after MOA,VKA), ML2.4 (after ARSA) **¶97viii0147**
NEIC Felt I=IV MSK at Mariazell, Styria (after MOA)
ISC VIII 02 04 49 22.7±.52 **46.18N**±.045 **13.68E**±.052 **10** **21 0-5**
ROM VIII 02 04 49 22.3 46.1N 13.8E 5 2.8D **¶97viii0172**
NEIC VIII 02 04 49 24.6 46.10N 13.80E 10
NEIC M_L2.6(VIE), M_L2.4(LJU)
NEIC Felt I=V MM at Kanal, Slovenia.
ISC VIII 07 22 28 51.3±.59 **47.89N**±.046 **15.24E**±.050 **10** **28 1-4**
SZGRF VIII 07 22 28 57.2 47.9N 15.2E 10 2.9L **¶97viii1009**
NEIC VIII 07 22 28 57.4 48.06N 15.45E 10
NEIC M_L2.6(VIE).
NEIC ML 2.6 (BRA). Felt I=IV MSK at Mariazell.
ISC VIII 10 15 35 53.4±.83 **47.82N**±.064 **15.28E**±.077 **10** **14 1-4**
SZGRF VIII 10 15 36 01.3 47.9N 15.1E 10 2.5L **¶97viii1415**
NEIC Felt I=III MSK at Mariazell (after MOA)
ISC VIII 11 07 40 31.6±.98 **47.3N**±.11 **11.34E**±.087 **5** **6 0-2**
NEIC VIII 11 07 40 31.9 47.28N 11.32E 5 **¶97viii1528**
NEIC M_L2.1(VIE), Single network solution.
ISC VIII 11 09 05 55.9±.46 **47.35N**±.030 **11.33E**±.050 **7**±4.8 **45 0-5**
NEIC VIII 11 09 05 56.1 47.30N 11.33E 10 **¶97viii1536**
SZGRF VIII 11 09 05 56.9 47.3N 11.4E 10 2.8L
LDG VIII 11 09 06 01.1 47.4N 11.1E 2.9L
STR VIII 11 09 06 01.9 47.51N 11.08E 10 3.1L
NEIC ML 3.0 (FUR), 2.7 (VIE). Felt I=III MSK at Innsbruck.
ISC VIII 11 09 36 52.3±.63 **47.34N**±.049 **11.32E**±.061 **5** **18 0-3**
NEIC VIII 11 09 36 53.5 47.26N 11.28E 5 **¶97viii1540**
SZGRF VIII 11 09 36 54.8 47.4N 11.3E 10 2.3L
NEIC M_L2.6(FUR), M_L2.3(VIE).
ISC VIII 11 15 04 05.6±.29 **47.36N**±.023 **11.33E**±.036 **0** **66 0-7**
NEIC VIII 11 15 04 07.2 47.30N 11.25E 10 **¶97viii1576**
SZGRF VIII 11 15 04 07.3 47.3N 11.4E 10 3.2L
LEDBW VIII 11 15 04 08.7 47.33N 11.25E 10 3.1L
LDG VIII 11 15 04 11.8 47.4N 11.1E 3.0L
STR VIII 11 15 04 13.0 47.48N 10.97E 10 3.0L
NEIC M_L3.5(FUR)
NEIC 2.9 (VIE).
LEDBW Mining induced event
ISC VIII 15 00 37 45.3±.74 **47.97N**±.062 **15.27E**±.073 **5** **19 1-5**
NEIC VIII 15 00 37 45.4 47.89N 15.44E 5 **¶97viii2137**
SZGRF VIII 15 00 37 51.3 48.4N 15.4E 5 2.5L
NEIC M_L2.4(VIE), Less reliable solution.
NEIC Felt I=IV MSK at Frankenfels.
ISC VIII 19 07 05 13±3.3 **47.1N**±.12 **11.3E**±.17 **11**±46 **5 0-0**
NEIC VIII 19 07 05 13.2 47.14N 11.28E 5 **¶97viii2771**
ISC Poorly determined
NEIC M_L1.4(VIE), Single network solution.
ISC VIII 31 21 16 02.1±.83 **46.5N**±.11 **13.2E**±.12 **10** **10 0-3**
ROM VIII 31 21 16 05.1 46.1N 13.1E 10 2.4D **¶97viii4709**
ISC IX 04 01 45 39.1±.73 **47.74N**±.055 **16.18E**±.084 **5** **16 0-5**
NEIC IX 04 01 45 39.2 47.74N 16.16E 5 **¶97ix0529**
SZGRF IX 04 01 45 43.9 48.0N 16.1E 10 2.8L
NEIC M_L2.6(VIE). Less reliable solution.
NEIC Felt I=IV MSK at Ternitz.
LJU IX 09 08 26 24.4 46.1N 13.59E 7 ¶97ix1342
ISC IX 14 15 46 44.8±.39 **47.12N**±.030 **11.49E**±.044 **5** **50 0-6**
ROM IX 14 15 46 44.6 47.0N 11.4E 5 2.8D **¶97ix2143**
NEIC IX 14 15 46 46.3 47.12N 11.36E 5
SZGRF IX 14 15 46 46.6 47.1N 11.5E 10 3.0L
LDG IX 14 15 46 47.3 47.2N 11.5E 2.8L
NEIC M_L2.7(VIE).
ISC IX 17 02 34 41±1.0 **46.37N**±.080 **13.8E**±.10 **10** **8 0-3**
LJU IX 17 02 34 44.6 46.3N 14.3E 19 **¶97ix2458**
NEIC IX 17 02 34 45.5 46.29N 13.87E 10
NEIC M_L1.9(VIE), Poor solution.
ISC IX 22 10 04 08.8±.76 **46.26N**±.059 **13.88E**±.075 **10** **10 0-2**
ROM IX 22 10 04 08.6 46.4N 13.8E 5 2.5D **¶97ix3261**
LJU IX 22 10 04 08.7 46.3N 13.8E 10
NEIC IX 22 10 04 09.9 46.19N 13.90E 10
NEIC M_L2.3(VIE), M_L2.1(LJU), Less reliable solution.
ISC IX 25 18 20 13.5±.83 **46.71N**±.060 **13.36E**±.074 **0**±14 **10 0-3**
ROM IX 25 18 20 13.4 46.7N 13.4E 10 2.4D **¶97ix3770**
NEIC IX 25 18 20 22.7 47.48N 12.82E 5
NEIC M_L2.4(VIE), Less reliable solution.
ISC IX 29 09 52 35.3±.69 **46.37N**±.057 **13.15E**±.056 **2**±10 **17 0-4**
ROM IX 29 09 52 35.3 46.4N 13.1E 5 2.6D **¶97ix4921**
NEIC IX 29 09 52 36.1 46.22N 13.18E 10
NEIC M_L2.7(VIE).
ISC X 01 21 00 59.7±.83 **47.90N**±.082 **10.1E**±.11 **26**±11 **14 0-3**
LEDBW X 01 21 00 59.2 47.84N 10.16E 27 2.2L **¶97x0150**
NEIC X 01 21 00 59.3 47.91N 10.18E 10
NEIC M_L2.3(VIE), M_L2.2(FBB).
ISC X 06 04 09 37.2±.77 **47.68N**±.054 **13.68E**±.065 **10** **19 0-4**
ROM X 06 04 09 38.3 47.6N 14.5E 10 2.8D **¶97x0982**
SZGRF X 06 04 09 40.2 47.7N 13.7E 10 2.7L
ISC X 19 10 30 57.6±.32 **47.41N**±.023 **11.82E**±.040 **10** **85 0-8**
NEIC X 19 10 30 58.0 47.36N 11.76E 10 **¶97x3330**
SZGRF X 19 10 30 58.8 47.4N 11.7E 10 3.3L
LDG X 19 10 31 00.2 47.5N 11.7E 3.0L
ROM X 19 10 31 01.0 47.2N 12.0E 5 3.4D
LEDBW X 19 10 31 02.6 47.46N 11.63E 10 3.1L
STR X 19 10 31 04.0 47.53N 11.48E 10 3.0L
NEIC M_L3.1(VIE)
NEIC ML 3.1 (FBB), 2.7 (FUR). Felt I=IV MM at Schwaz.
ISC X 19 20 52 49.2±.45 **47.04N**±.035 **12.70E**±.050 **10** **46 0-7**
NEIC X 19 20 52 48.9 46.99N 12.73E 10 **¶97x3392**
ROM X 19 20 52 49.7 46.8N 12.9E 10 2.8D
LDG X 19 20 52 50.8 47.2N 12.9E 2.8L
STR X 19 20 52 51 47.20N 12.90E 5 3.2L
SZGRF X 19 20 52 51.0 47.1N 12.8E 10 2.5L
NEIC ML 2.8 (VIE), 2.5 (FUR).
ISC X 21 20 44 09±1.3 **47.3N**±.15 **11.6E**±.15 **10** **6 0-2**
NEIC X 21 20 44 08.5 47.29N 11.67E 10 **¶97x3700**
NEIC M_L1.7(VIE).
ISC X 22 12 22 32.3±.94 **47.6N**±.17 **13.22E**±.075 **5** **6 0-2**
NEIC X 22 12 22 33.0 47.84N 13.16E 5 **¶97x3808**
NEIC M_L2.2(VIE), Less reliable solution.
LJU X 24 19 00 42.6 46.3N 13.3E 6 ¶97x4211
LJU X 25 14 23 21.6 46.2N 13.64E 13 ¶97x4336
LJU X 26 16 13 41.4 46.18N 13.6E 13 ¶97x4495
ISC XI 03 21 44 53±1.2 **47.79N**±.085 **16.1E**±.12 **6**±14 **9 1-4**
NEIC XI 03 21 44 53.6 47.71N 16.19E 10 **¶97xi0525**
NEIC M_L2.9(VIE). Poor solution.
NEIC Felt I=IV MSK at Markt Piesting.
ISC XI 03 23 17 03±1.3 **47.8N**±.11 **16.1E**±.13 **2**±14 **11 1-4**
NEIC XI 03 23 17 03.5 47.74N 16.19E 5 **¶97xi0536**
NEIC M_L2.6(VIE)
NEIC Felt I=IV MSK at Markt Piesting.
ISC XI 04 02 22 19±1.3 **47.74N**±.094 **16.2E**±.14 **11**±17 **10 1-4**
NEIC XI 04 02 22 19.3 47.73N 16.22E 10 **¶97xi0559**
NEIC M_L2.5(VIE). Less reliable solution.
NEIC Felt I=IV MSK at Markt Piesting.
LJU XI 12 15 24 19.9 47.0N 15.8E 76 ¶97xi2002
ISC $ML_{2.5}$(ARSA), $ML_{2.5}$(MOA)
LJU XI 20 09 57 59.4 46.0N 13.6E 0 ¶97xi3440
LJU Quarry Blast

Agency		Origin Time	φ	λ	h	Mag	n	Δ-Rng
	mo	d h m s	°	°	km			°
LJU	**XI**	**21 10 41 25.4**	**47.26N**	**15.0E**	**0**			**¶97xi3636**
ISC	**XI**	**24 08 48 46**±2.6	**47.8N**±.20	**16.3E**±.40	**16**±28		**5**	**0-2**
ISC		ML2.0(VKA), ML3.1(MOA), Poorly determined						**¶97xi4287**
ISC	**XI**	**26 08 35 00**±5.5	**46.7N**±.31	**13.6E**±.33	**5**		**4**	**0-1**
LJU	XI	26 08 34 58.6	46.7N	13.7E	5			**¶97xi4654**
ISC		Poorly determined						
LJU	**XI**	**29 21 17 01.6**	**46.5N**	**13.7E**	**11**			**¶97xi5324**
LJU	**XII**	**01 03 54 45.8**	**46.5N**	**13.5E**	**11**			**¶97xii0029**
ISC	**XII**	**02 17 18 04.2**±.46	**46.09N**±.036	**13.44E**±.049	**8**±6.6		**43**	**0-7**
NEIC	XII	02 17 18 04.7	45.97N	13.35E	10			**¶97xii0286**
ROM	XII	02 17 18 04.9	46.1N	13.6E	10	3.1D		
LJU	XII	02 17 18 05.4	46.1N	13.5E	13			
LDG	XII	02 17 18 06.9	46.0N	13.4E		3.1L		
NEIC		M_L3.1(VIE)						
NEIC		ML 2.6 (LJU).						
LJU		Felt I=IV EMS in Anhovo, Gonjace, Kojsko, Ajba and Volarje, Slovenia						
ISC	**XII**	**05 17 58 41.8**±.51	**46.20N**±.045	**13.64E**±.053	**14**		**20**	**0-5**
ROM	XII	05 17 58 42.7	46.3N	13.7E	14	2.6D		**¶97xii0998**
LJU	XII	05 17 58 42.9	46.1N	13.6E	15			
NEIC	XII	05 17 58 44.0	46.13N	13.66E	5			
NEIC		$M_{L2.5}$(VIE), $M_{L2.2}$(LJU).						
ISC	**XII**	**09 00 58 04**±1.2	**46.32N**±.089	**13.17E**±.086	**10**		**10**	**0-3**
LJU	XII	09 00 58 04.9	46.4N	13.3E	7			**¶97xii2062**
NEIC	XII	09 00 58 05.4	46.26N	13.24E	10			
NEIC		M_L1.8(VIE), Less reliable solution.						
ISC	**XII**	**09 01 36 36.1**±.28	**46.36N**±.027	**13.23E**±.033	**5**		**68**	**0-7**
ROM	XII	09 01 36 35.9	46.4N	13.2E	5	3.2D		**¶97xii2069**
LDG	XII	09 01 36 36.0	46.4N	13.5E		3.1L		
LJU	XII	09 01 36 36.1	46.4N	13.2E	11			
NEIC	XII	09 01 36 36.2	46.30N	13.20E	5			
STR	XII	09 01 36 41.3	46.38N	12.91E	10	3.4L		
NEIC		$M_{L3.5}$(GRF)						
NEIC		ML 3.2 (VIE), 3.1 (FUR). MD 3.1 (TRI).						
ISC	**XII**	**11 06 40 56.8**±.59	**47.67N**±.047	**13.65E**±.062	**10**		**19**	**0-4**
NEIC	XII	11 06 40 58.3	47.62N	13.75E	10			**¶97xii2508**
SZGRF	XII	11 06 41 04.7	47.9N	13.7E	10	3.0L		
NEIC		M_L2.8(VIE)						
LJU	**XII**	**11 23 50 59.5**	**46.0N**	**13.8E**	**14**			**¶97xii2659**
ISC	**XII**	**12 01 28 18.3**±.55	**46.09N**±.047	**13.87E**±.056	**13**		**19**	**0-4**
ROM	XII	12 01 28 18.6	46.2N	14.0E	5	2.8D		**¶97xii2679**
LJU	XII	12 01 28 18.9	46.0N	13.8E	13			
NEIC	XII	12 01 28 19.7	45.99N	13.94E	5			
LJU		Felt I=IV EMS in Lozice, Zabce, Ajdovscina, Spodnja Kanomlja and Straza, Slovenia.						
NEIC		$M_{L2.8}$(VIE), $M_{L2.5}$(LJU).						
ISC	**XII**	**17 19 29 46**±1.3	**47.4N**±.29	**11.9E**±.17	**10**		**5**	**0-2**
NEIC	XII	17 19 29 48.4	47.36N	11.78E	10			**¶97xii3652**
NEIC		M_L1.5(VIE), Single network solution.						
ISC	**XII**	**17 22 30 37**±1.3	**47.4N**±.28	**11.9E**±.17	**10**		**5**	**0-2**
NEIC	XII	17 22 30 38.7	47.37N	11.78E	10			**¶97xii3670**
NEIC		M_L1.5(VIE), Single network solution.						
ISC	**XII**	**28 22 52 27.3**±.27	**47.16N**±.026	**10.06E**±.031	**10**		**73**	**0-7**
SZGRF	XII	28 22 52 24.7	47.0N	10.0E	10	2.9L		**¶97xii5507**
ZUR	XII	28 22 52 27.2	47.10N	10.05E	10	2.8L		
NEIC	XII	28 22 52 27.2	47.13N	10.07E	12			
LEDBW	XII	28 22 52 28.2	47.10N	10.10E	10	2.9L		
STR	XII	28 22 52 30.5	47.1N	9.87E	6	3.1L		
LDG	XII	28 22 52 30.9	47.2N	9.9E		3.0L		
ROM	XII	28 22 52 34.3	46.1N	10.3E	5	3.0D		
NEIC		M_L3.0(VIE)						
NEIC		ML 3.1 (GRF), 3.0 (LDG), 2.9 (FBB), 2.9 (FUR). Felt I=IV MSK at Tschagguns.						

(547) Czech and Slovak Republics.

ISC	**VII**	**01 14 51 58.0**±.81	**49.78N**±.073	**18.45E**±.083	**0**		**11**	**0-4**
ISC		Possibly mining induced						**¶97vii0105**
ISC	**VII**	**28 20 55 12.3**±.67	**49.89N**±.060	**18.41E**±.074	**0**		**16**	**0-4**
NEIC	VII	28 20 55 13.1	49.89N	18.48E	10			**¶97vii4326**
ISC		Possibly mining induced (after WAR)						
NEIC		M_L2.6(BRA), Less reliable solution.						
ISC	**VIII**	**21 22 05 57.6**±.66	**49.87N**±.060	**18.36E**±.077	**10**		**18**	**0-5**
NEIC	VIII	21 22 05 58.1	49.83N	18.43E	10			**¶97viii3147**
NEIC		$M_{L3.4}$(GRF).						
ISC	**VIII**	**31 13 19 15**±1.0	**50.22N**±.093	**13.3E**±.13	**10**		**5**	**1-1**
NEIC	VIII	31 13 19 15.1	50.22N	13.32E	10			**¶97viii4656**
NEIC		Poor solution.						
ISC	**IX**	**10 18 55 14**±1.5	**49.91N**±.096	**18.2E**±.15	**0**		**11**	**0-4**
ISC		ML3.3 (MOA)						**¶97ix1563**
ISC	**X**	**15 16 22 37.8**±.84	**50.0N**±.10	**18.39E**±.074	**0**		**8**	**0-3**
WAR	X	15 16 22 38.6	50.06N	18.48E		2.8L		**¶97x2674**
WAR		Mining induced						
ISC	**XI**	**10 14 54 38**±1.3	**48.42N**±.052	**17.1E**±.17	**0**		**10**	**0-4**
ISC		ML2.5 (VKA), ML3.2 (ARSA,MOA)						**¶97xi1624**

(548) Poland.

ISC	**VII**	**03 09 16 09**±1.2	**50.4N**±.12	**18.82E**±.089	**0**		**9**	**0-4**
WAR	VII	03 09 16 10.2	50.3N	18.9E		2.9L		**¶97vii0383**
WAR		Mining induced						
ISC	**VII**	**03 20 00 47.1**±.63	**51.68N**±.045	**16.22E**±.094	**0**		**30**	**1-12**
NEIC	VII	03 20 00 48.3	51.69N	16.18E	10			**¶97vii0445**
SZGRF	VII	03 20 00 49.7	51.5N	16.3E	1	3.6L		
EIDC	VII	03 20 00 49.7	51.5N	16.3E	0	3.4L		
ISC		Possibly mining induced (after WAR)						
NEIC		$M_{L3.6}$(VIE).						
ISC	**VII**	**05 19 50 06**±2.2	**51.6N**±.16	**16.2E**±.13	**0**		**8**	**1-3**
NEIC	VII	05 19 50 13.9	51.14N	15.80E	5			**¶97vii0780**
ISC		Possibly mining induced (after WAR)						
NEIC		MG2.4(WAR), Less reliable solution.						
ISC	**VII**	**09 22 28 29**±1.2	**50.4N**±.13	**18.82E**±.097	**0**		**12**	**1-5**
WAR	VII	09 22 28 30.3	50.3N	18.9E		2.8L		**¶97vii1407**
WAR		Mining induced						
ISC	**VII**	**10 03 33 41.7**±.75	**51.67N**±.055	**16.2E**±.11	**0**		**13**	**1-11**
NEIC	VII	10 03 33 42.4	51.67N	16.29E	5			**¶97vii1438**
EIDC	VII	10 03 33 42.8	51.5N	16.7E	0	3.1L		
ISC		Possibly mining induced (after WAR)						
NEIC		$M_{L3.0}$(VIE).						
ISC	**VII**	**12 13 18 24**±3.5	**51.4N**±.22	**15.9E**±.22	**0**		**9**	**1-4**
ISC		Possibly mining induced (after WAR)						**¶97vii1822**
ISC	**VII**	**12 19 23 38**±1.7	**51.3N**±.14	**15.7E**±.11	**0**		**9**	**1-4**
NEIC	VII	12 19 23 33.9	51.54N	16.06E	5			**¶97vii1859**
ISC		Possibly mining induced (after WAR)						
NEIC		M_L2.9(VIE), Poor solution.						
ISC	**VII**	**12 20 03 01**±2.1	**51.6N**±.15	**16.0E**±.12	**0**		**10**	**1-4**
NEIC	VII	12 20 03 04.2	51.41N	16.18E	5			**¶97vii1864**
ISC		Possibly mining induced (after WAR)						
NEIC		M_L3.0(VIE), Less reliable solution.						
ISC	**VII**	**12 21 52 48**±2.1	**51.7N**±.15	**16.1E**±.12	**0**		**10**	**1-4**
NEIC	VII	12 21 52 57.0	51.08N	15.77E	5			**¶97vii1871**
ISC		Possibly mining induced (after WAR)						
NEIC		M_L2.9(VIE), Less reliable solution.						
ISC	**VII**	**17 03 55 08.4**±.53	**51.61N**±.039	**16.22E**±.070	**0**		**38**	**1-11**
NEIC	VII	17 03 55 08.8	51.65N	16.19E	5			**¶97vii2540**
EIDC	VII	17 03 55 10.1	51.6N	16.0E	0	3.4L		
WAR	VII	17 03 55 13.0	51.47N	16.13E		3.3L		
NEIC		$M_{L3.7}$(VIE).						
WAR		Mining induced						
ISC	**VII**	**17 20 09 46.2**±.78	**51.56N**±.057	**16.17E**±.094	**0**		**12**	**1-11**
NEIC	VII	17 20 09 47.0	51.57N	16.23E	5			**¶97vii2639**
EIDC	VII	17 20 09 49.6	51.5N	16.8E	0	3.4L		
ISC		Possibly mining induced (after WAR)						
WAR	**VII**	**18 10 35 29.6**	**50.3N**	**18.9E**		**2.9L**		**¶97vii2726**
WAR		Mining induced						
ISC	**VII**	**19 11 54 46.5**±.73	**51.67N**±.055	**16.2E**±.11	**0**		**17**	**1-11**
NEIC	VII	19 11 54 47.0	51.67N	16.25E	5			**¶97vii2866**
EIDC	VII	19 11 54 48.4	51.5N	16.4E	0	3.0L		
WAR	VII	19 11 54 51.0	51.48N	16.09E		3.0L		
NEIC		$M_{L3.4}$(VIE).						
WAR		Mining induced						
ISC	**VII**	**22 04 54 15.9**±.65	**51.71N**±.048	**16.21E**±.077	**0**		**30**	**1-11**
NEIC	VII	22 04 54 16.3	51.71N	16.21E	5			**¶97vii3328**
EIDC	VII	22 04 54 18.3	51.6N	16.1E	0	3.3L		
SZGRF	VII	22 04 54 20.1	51.5N	16.1E	1	3.5L		
WAR	VII	22 04 54 20.2	51.5N	16.0E		3.3L		
NEIC		$M_{L4.0}$(GRF), $M_{L3.7}$(VIE).						
WAR		Mining induced						
ISC	**VII**	**23 21 49 57**±1.5	**51.6N**±.10	**16.1E**±.11	**0**		**25**	**1-6**
NEIC	VII	23 21 49 56.9	51.63N	16.22E	5			**¶97vii3578**
SZGRF	VII	23 21 49 59.3	51.5N	16.2E	1	3.5L		
WAR	VII	23 21 50 00.2	51.5N	16.1E		3.1L		
NEIC		$M_{L3.3}$(VIE).						
WAR		Mining induced						
ISC	**VII**	**24 00 19 47**±1.0	**50.43N**±.087	**18.88E**±.077	**0**		**19**	**1-5**
WAR	VII	24 00 19 49.6	50.3N	18.9E		3.2L		**¶97vii3593**
WAR		Mining induced						
ISC	**VII**	**25 19 17 47.2**±.74	**51.66N**±.055	**16.11E**±.090	**0**		**14**	**1-11**
NEIC	VII	25 19 17 47.7	51.66N	16.25E	5			**¶97vii3865**
EIDC	VII	25 19 17 49.3	51.6N	16.1E	0	3.3L		
WAR	VII	25 19 17 52.0	51.47N	16.08E		2.7L		
NEIC		$M_{L3.3}$(GRF), $M_{L3.2}$(VIE).						
WAR		Mining induced						
ISC	**VII**	**25 20 03 03.4**±.87	**50.0N**±.10	**19.06E**±.077	**0**		**12**	**1-4**
WAR	VII	25 20 03 04.5	50.1N	19.1E		2.8L		**¶97vii3871**
WAR		Mining induced						
ISC	**VII**	**26 12 19 17.1**±.54	**51.61N**±.040	**16.14E**±.068	**0**		**53**	**1-13**
NEIC	VII	26 12 19 16.3	51.69N	16.22E	5			**¶97vii3963**
EIDC	VII	26 12 19 18.0	51.6N	16.1E	0	3.7L		
SZGRF	VII	26 12 19 19.3	51.6N	16.2E	1	3.9L		
WAR	VII	26 12 19 21.0	51.48N	16.09E		3.4L		
NEIC		$M_{L4.2}$(GRF), $M_{L3.9}$(VIE).						
NEIC		ML 3.9 (FUR).						
WAR		Mining induced						
ISC	**VII**	**26 19 01 28.4**±.47	**51.67N**±.036	**16.17E**±.064	**0**		**40**	**1-12**
NEIC	VII	26 19 01 28.8	51.68N	16.13E	5			**¶97vii3997**
SZGRF	VII	26 19 01 31.2	51.5N	16.1E	1	3.7L		
EIDC	VII	26 19 01 32.0	51.7N	16.0E	18	3.6L		
WAR	VII	26 19 01 32.5	51.5N	16.0E		3.4L		
NEIC		$M_{L4.2}$(GRF), $M_{L3.8}$(VIE).						
WAR		Mining induced						
ISC	**VII**	**27 04 00 23.7**±.73	**51.63N**±.054	**16.29E**±.094	**0**		**16**	**1-11**
NEIC	VII	27 04 00 24.1	51.61N	16.44E	5			**¶97vii4054**
EIDC	VII	27 04 00 26.0	51.6N	16.1E	0	3.1L		
ISC		Possibly mining induced (after WAR)						
NEIC		$M_{L3.3}$(GRF), $M_{L3.2}$(VIE).						
ISC	**VII**	**27 07 46 54.9**±.67	**51.71N**±.047	**16.1E**±.12	**0**		**17**	**1-11**
NEIC	VII	27 07 46 55.7	51.72N	16.09E	5			**¶97vii4079**
EIDC	VII	27 07 46 56.3	51.6N	16.2E	0	3.1L		
WAR	VII	27 07 46 59.2	51.5N	16.0E		2.8L		
NEIC		$M_{L3.4}$(GRF), $M_{L3.3}$(VIE).						
WAR		Mining induced						
ISC	**VII**	**29 14 36 02.6**±.83	**50.0N**±.11	**19.00E**±.077	**0**		**9**	**1-4**
WAR	VII	29 14 36 04.0	50.1N	19.1E		2.8L		**¶97vii4442**
WAR		Mining induced						
ISC	**VII**	**30 03 43 00.7**±.32	**51.59N**±.024	**16.22E**±.051	**0**	**3.8b**	**80**	**1-101**
NEIC	VII	30 03 43 01.3	51.58N	16.19E	5	4.1b		**¶97vii4527**
MOS	VII	30 03 43 01.6	51.6N	16.2E	10	4.0b		
EIDC	VII	30 03 43 02.3	51.6N	15.9E	0	3.9L,3.6b		
SZGRF	VII	30 03 43 04.9	51.5N	16.1E	1	3.9L		
WAR	VII	30 03 43 05.0	51.44N	16.15E		3.2L		
NEIC		$M_{L4.2}$(GRF), $M_{L4.0}$(VIE).						
NEIC		ML 4.0 (FUR).						
WAR		Mining induced						
ISC	**VIII**	**01 05 26 18**±1.2	**50.4N**±.13	**18.87E**±.091	**0**		**12**	**1-4**
WAR	VIII	01 05 26 20.1	50.3N	18.9E		3.0L		**¶97viii0028**
WAR		Mining induced						
ISC	**VIII**	**02 03 23 19.8**±.68	**51.62N**±.050	**16.17E**±.091	**0**		**14**	**1-67**
NEIC	VIII	02 03 23 19.9	51.60N	16.53E	5			**¶97viii0164**
EIDC	VIII	02 03 23 21.1	51.5N	16.4E	0	2.8L		
WAR	VIII	02 03 23 24.0	51.47N	16.13E		2.3L		
NEIC		$M_{L3.0}$(VIE).						
WAR		Mining induced						
ISC	**VIII**	**02 11 02 43**±2.0	**51.1N**±.16	**15.8E**±.13	**0**		**7**	**0-3**
ISC		Possibly mining induced (after WAR)						**¶97viii0202**
ISC	**VIII**	**04 23 44 30.5**±.73	**50.43N**±.067	**19.08E**±.081	**0**		**14**	**1-12**
EIDC	VIII	04 23 44 27.6	49.9N	19.6E	0	3.0L		**¶97viii0578**
NEIC	VIII	04 23 44 31.0	50.42N	19.07E	5			
WAR	VIII	04 23 44 34.5	50.24N	19.20E		2.8L		
WAR		Mining induced						
ISC	**VIII**	**06 11 20 58**±1.3	**50.3N**±.13	**18.91E**±.087	**0**		**7**	**1-2**
WAR	VIII	06 11 20 58.2	50.3N	18.9E		3.1L		**¶97viii0789**
WAR		Mining induced						

ISC VIII 06 19 13 30.1±.63 **51.60N**±.048 **16.17E**±.077 **0** **15 1-11**
NEIC VIII 06 19 13 31.2 51.62N 16.24E 5 **¶97viii0832**
EIDC VIII 06 19 13 32.5 51.5N 16.2E 0 3.0L
WAR VIII 06 19 13 34.0 51.47N 16.08E 2.4L
NEIC MG2.6(WAR).
WAR Mining induced
ISC VIII 07 19 33 57.9±.56 **51.66N**±.042 **16.29E**±.074 **0** **36 1-12**
NEIC VIII 07 19 33 58.4 51.67N 16.25E 5 **¶97viii0992**
EIDC VIII 07 19 33 58.9 51.6N 16.0E 0 3.3L
SZGRF VIII 07 19 34 02.6 51.4N 16.2E 1 3.3L
WAR VIII 07 19 34 03.0 51.47N 16.13E 3.2L
NEIC ML3.3(VIE).
WAR Mining induced
ISC VIII 08 04 01 12.1±.55 **51.63N**±.042 **16.32E**±.068 **0** **28 1-12**
NEIC VIII 08 04 01 13.4 51.67N 16.13E 5 **¶97viii1051**
EIDC VIII 08 04 01 13.7 51.6N 16.3E 0 3.3L
WAR VIII 08 04 01 16.7 51.5N 16.1E 3.0L
SZGRF VIII 08 04 01 16.9 51.4N 16.2E 1 3.0L
NEIC ML3.2(VIE).
WAR Mining induced
ISC VIII 08 05 19 06±1.0 **50.3N**±.10 **18.85E**±.073 **0** **14 0-5**
WAR VIII 08 05 19 06.7 50.3N 18.9E 2.9L **¶97viii1061**
NEIC VIII 08 05 19 07.9 50.14N 18.96E 5
WAR Mining induced
NEIC MG2.7(WAR), Less reliable solution.
ISC VIII 08 08 20 45±1.1 **50.3N**±.12 **18.85E**±.088 **0** **10 0-4**
WAR VIII 08 08 20 46.2 50.3N 18.9E 2.8L **¶97viii1072**
WAR Mining induced
ISC VIII 10 10 26 07±2.1 **51.7N**±.15 **16.1E**±.12 **0** **9 1-4**
NEIC VIII 10 10 26 15.5 51.15N 15.81E 5 **¶97viii1381**
ISC Possibly mining induced (after WAR)
NEIC Less reliable solution.
ISC VIII 11 00 39 56±2.0 **51.3N**±.16 **15.7E**±.12 **0** **9 1-4**
NEIC VIII 11 00 39 34.7 52.45N 17.67E 5 **¶97viii1483**
WAR VIII 11 00 39 53.8 51.5N 16.0E 2.1L
NEIC ML3.0(VIE), Poor solution.
WAR Mining induced
ISC VIII 11 01 00 41.8±.45 **50.03N**±.044 **18.44E**±.054 **0** **33 0-13**
EIDC VIII 11 01 00 42.3 49.9N 18.6E 0 3.4L **¶97viii1487**
NEIC VIII 11 01 00 42.6 50.10N 18.42E 5
SZGRF VIII 11 01 00 45.3 49.9N 18.4E 3.3L
ISC Possibly mining induced (after WAR)
NEIC ML3.4(VIE).
SZGRF Probably mining induced
ISC VIII 12 11 34 06±1.6 **51.4N**±.15 **15.83E**±.088 **0** **12 1-4**
WAR VIII 12 11 34 05.3 51.5N 16.1E 2.8L **¶97viii1740**
NEIC VIII 12 11 34 09.0 51.17N 15.85E 5
WAR Mining induced
NEIC ML3.4(VIE), Less reliable solution.
ISC VIII 12 22 40 04±3.9 **51.3N**±.23 **15.8E**±.26 **0** **8 1-4**
ISC ML2.7 (after MOA), possibly mining induced (after WAR) **¶97viii1814**
ISC VIII 13 14 46 14.1±.67 **50.44N**±.060 **18.93E**±.071 **0** **19 1-12**
EIDC VIII 13 14 46 15.9 50.3N 18.8E 0 3.2L **¶97viii1921**
NEIC VIII 13 14 46 16.2 50.28N 18.88E 5
WAR VIII 13 14 46 16.3 50.3N 18.9E 3.3L
NEIC ML3.3(VIE).
WAR Mining induced
ISC VIII 14 00 49 36.6±.66 **50.49N**±.057 **18.90E**±.069 **0** **19 1-12**
EIDC VIII 14 00 49 38.6 50.3N 18.8E 0 3.0L **¶97viii1988**
NEIC VIII 14 00 49 38.8 50.30N 18.84E 5
WAR VIII 14 00 49 39.1 50.3N 18.9E 3.0L
NEIC ML3.1(VIE).
WAR Mining induced
ISC VIII 14 03 37 57±1.1 **51.28N**±.087 **15.74E**±.076 **0** **29 1-12**
EIDC VIII 14 03 37 52.0 51.6N 16.1E 0 3.1L **¶97viii1998**
SZGRF VIII 14 03 37 55.6 51.5N 16.1E 1 3.1L
WAR VIII 14 03 37 56.0 51.5N 16.0E 2.9L
NEIC VIII 14 03 37 59.0 51.22N 15.68E 5
WAR Mining induced
NEIC ML3.4(VIE).
ISC VIII 15 03 34 04±1.9 **51.4N**±.16 **16.1E**±.12 **0** **7 1-3**
ISC Possibly mining induced (after WAR) **¶97viii2155**
ISC VIII 15 03 56 48±2.1 **51.6N**±.15 **16.1E**±.12 **0** **10 1-4**
WAR VIII 15 03 56 51.7 51.5N 16.0E 2.6L **¶97viii2157**
NEIC VIII 15 03 56 57.0 51.01N 15.74E 5
WAR Mining induced
NEIC ML3.4(VIE), Less reliable solution.
ISC VIII 18 20 41 43±3.0 **51.4N**±.19 **15.8E**±.17 **0** **7 1-3**
ISC Possibly mining induced (after WAR) **¶97viii2711**
ISC VIII 19 19 25 37.9±.58 **51.59N**±.042 **16.25E**±.079 **0** **30 1-11**
NEIC VIII 19 19 25 38.5 51.61N 16.27E 5 **¶97viii2858**
SZGRF VIII 19 19 25 40.1 51.6N 16.2E 1 3.4L
EIDC VIII 19 19 25 40.2 51.6N 16.1E 0 3.2L
WAR VIII 19 19 25 42.0 51.47N 16.13E 2.8L
NEIC ML3.4(VIE).
WAR Mining induced
ISC VIII 21 10 58 11.9±.58 **51.68N**±.047 **16.15E**±.074 **0** 4.2b **21 1-46**
NEIC VIII 21 10 58 13.1 51.72N 16.05E 5 **¶97viii3089**
EIDC VIII 21 10 58 14.9 51.7N 15.9E 0 3.3L,4.0b
WAR VIII 21 10 58 16.9 51.5N 16.1E 3.1L
NEIC ML3.3(VIE).
WAR Mining induced
ISC VIII 22 16 41 13.8±.44 **51.61N**±.036 **16.16E**±.068 **0** **35 1-12**
NEIC VIII 22 16 41 14.1 51.60N 16.18E 5 **¶97viii3250**
EIDC VIII 22 16 41 15.4 51.5N 16.1E 0 3.8L
SZGRF VIII 22 16 41 16.2 51.5N 16.2E 1 3.3L
WAR VIII 22 16 41 17.5 51.4N 16.1E 3.3L
NEIC ML3.4(VIE).
WAR Mining induced
ISC VIII 22 19 48 08.6±.81 **50.49N**±.065 **18.89E**±.084 **0** **16 1-12**
NEIC VIII 22 19 48 09.3 50.49N 18.89E 10 **¶97viii3276**
EIDC VIII 22 19 48 10.8 50.5N 18.6E 0 3.0L
WAR VIII 22 19 48 11.3 50.27N 18.92E 2.9L
NEIC MG2.9(WAR).
WAR Mining induced
ISC VIII 22 20 18 42.4±.63 **50.55N**±.049 **18.87E**±.071 **0** **20 1-12**
NEIC VIII 22 20 18 43.6 50.55N 18.99E 10 **¶97viii3280**
EIDC VIII 22 20 18 44.3 50.5N 18.8E 0 3.2L
WAR VIII 22 20 18 45.2 50.2N 18.9E 3.1L
NEIC ML2.4(BRA).
WAR Mining induced

ISC VIII 23 01 16 12±1.9 **51.6N**±.13 **16.2E**±.13 **0** **10 1-4**
NEIC VIII 23 01 16 14.6 51.47N 16.29E 5 **¶97viii3315**
WAR VIII 23 01 16 15.8 51.5N 16.1E 2.5L
NEIC ML3.1(VIE), ML2.8(GRF), Less reliable solution.
WAR Mining induced
ISC VIII 23 06 02 49.9±.82 **50.49N**±.068 **19.01E**±.085 **0** **14 1-12**
NEIC VIII 23 06 02 50.1 50.51N 18.98E 5 **¶97viii3346**
EIDC VIII 23 06 02 51.0 50.4N 19.1E 0 3.3L
WAR VIII 23 06 02 52.4 50.3N 19.0E 2.8L
NEIC MG2.8(WAR).
WAR Mining induced
ISC VIII 23 19 47 13.5±.69 **51.64N**±.051 **16.21E**±.084 **0** **22 1-11**
NEIC VIII 23 19 47 14.2 51.65N 16.15E 5 **¶97viii3448**
EIDC VIII 23 19 47 14.8 51.5N 16.4E 0 3.6L
WAR VIII 23 19 47 17.7 51.5N 16.1E 2.8L
NEIC ML3.4(GRF), ML3.4(VIE).
WAR Mining induced
ISC VIII 23 20 18 20±2.0 **50.4N**±.13 **18.8E**±.16 **0** **9 1-4**
ISC Possibly mining induced (after WAR) **¶97viii3450**
ISC VIII 24 14 04 34.9±.73 **51.61N**±.055 **16.14E**±.088 **0** **14 1-11**
NEIC VIII 24 14 04 35.8 51.62N 16.15E 5 **¶97viii3546**
EIDC VIII 24 14 04 36.7 51.5N 16.2E 0 2.9L
WAR VIII 24 14 04 38.2 51.5N 16.1E 2.5L
NEIC ML3.1(GRF).
WAR Mining induced
ISC VIII 25 06 57 48±1.8 **51.4N**±.13 **16.11E**±.098 **0** **9 1-3**
WAR VIII 25 06 57 49.7 51.5N 16.1E 2.5L **¶97viii3663**
NEIC VIII 25 06 57 55.5 51.06N 15.85E 5
WAR Mining induced
NEIC Less reliable solution.
ISC VIII 27 02 58 53±2.1 **51.6N**±.15 **16.0E**±.11 **0** **8 1-3**
NEIC VIII 27 02 59 01.8 51.03N 15.75E 5 **¶97viii3931**
ISC Possibly mining induced (after WAR)
NEIC Poor solution.
ISC VIII 27 13 51 28±2.1 **51.6N**±.15 **16.0E**±.12 **0** **10 1-4**
WAR VIII 27 13 51 30.8 51.5N 16.0E 2.6L **¶97viii3994**
NEIC VIII 27 13 51 34.8 51.14N 15.79E 5
WAR Mining induced
NEIC Less reliable solution.
ISC VIII 28 05 24 16.9±.63 **51.62N**±.048 **16.32E**±.065 **0** **28 1-11**
NEIC VIII 28 05 24 17.3 51.64N 16.29E 5 **¶97viii4087**
EIDC VIII 28 05 24 18.9 51.6N 16.1E 0 3.5L
WAR VIII 28 05 24 21.3 51.5N 16.1E 3.0L
SZGRF VIII 28 05 24 21.3 51.4N 16.1E 1 3.3L
NEIC ML3.9(VIE)
WAR Mining induced
ISC VIII 28 20 37 57±1.1 **51.47N**±.091 **16.15E**±.080 **0** **26 1-5**
NEIC VIII 28 20 37 57.6 51.45N 16.12E 5 **¶97viii4182**
WAR VIII 28 20 37 58.3 51.5N 16.1E 3.1L
SZGRF VIII 28 20 37 58.3 51.4N 16.2E 1 3.3L
NEIC ML3.4(VIE).
WAR Mining induced
ISC VIII 30 14 35 23±1.7 **51.6N**±.13 **16.2E**±.12 **0** **11 1-4**
NEIC VIII 30 14 35 23.6 51.57N 16.21E 5 **¶97viii4497**
WAR VIII 30 14 35 26.1 51.5N 16.1E 2.7L
NEIC ML3.1(VIE), Less reliable solution.
WAR Mining induced
ISC VIII 30 14 42 50.5±.67 **51.66N**±.050 **16.24E**±.083 **0** **24 1-11**
NEIC VIII 30 14 42 51.1 51.67N 16.22E 5 **¶97viii4499**
EIDC VIII 30 14 42 52.4 51.6N 16.4E 0 3.3L
SZGRF VIII 30 14 42 53.5 51.4N 16.2E 1 3.3L
WAR VIII 30 14 42 54.8 51.5N 16.1E 3.0L
NEIC ML3.6(VIE).
WAR Mining induced
ISC VIII 30 16 44 36±1.9 **51.6N**±.13 **16.1E**±.10 **0** **11 1-4**
WAR VIII 30 16 44 40.0 51.5N 16.1E 2.6L **¶97viii4515**
NEIC VIII 30 16 44 44.1 51.16N 15.87E 5
WAR Mining induced
NEIC ML3.1(VIE), Less reliable solution.
ISC IX 01 15 12 35±1.5 **51.1N**±.15 **15.68E**±.082 **0** **9 0-3**
WAR IX 01 15 12 31.4 51.5N 16.0E 2.4L **¶97ix0126**
NEIC IX 01 15 12 35.9 51.15N 15.81E 5
WAR Mining induced
NEIC Poor solution.
ISC IX 02 00 21 41.8±.91 **50.30N**±.067 **18.90E**±.076 **0** **17 0-5**
NEIC IX 02 00 21 42.9 50.19N 18.91E 10 **¶97ix0187**
WAR IX 02 00 21 43.3 50.25N 18.93E 3.0L
NEIC ML2.8(CLL), Less reliable solution.
WAR Mining induced
ISC IX 02 02 12 03±1.6 **51.5N**±.12 **16.03E**±.093 **0** **12 1-4**
WAR IX 02 02 12 05.0 51.5N 16.1E 2.4L **¶97ix0205**
NEIC IX 02 02 12 06.7 51.26N 16.09E 5
WAR Mining induced
NEIC ML3.1(VIE), Less reliable solution.
ISC IX 03 19 12 25±2.0 **51.1N**±.18 **15.9E**±.13 **0** **8 1-3**
ISC Possibly mining induced (after WAR) **¶97ix0465**
ISC IX 04 14 23 51.0±.71 **50.52N**±.058 **18.89E**±.076 **0** **18 1-12**
NEIC IX 04 14 23 51.0 50.48N 19.04E 5 **¶97ix0603**
EIDC IX 04 14 23 53.1 50.4N 18.8E 0 3.5L
WAR IX 04 14 23 53.8 50.3N 18.9E 3.1L
NEIC ML3.0(CLL).
WAR Mining induced
ISC IX 04 14 30 40.7±.68 **51.65N**±.050 **16.09E**±.075 **0** **23 1-11**
NEIC IX 04 14 30 41.1 51.68N 16.18E 5 **¶97ix0604**
EIDC IX 04 14 30 42.7 51.7N 16.1E 0 3.4L
WAR IX 04 14 30 44.5 51.5N 16.0E 3.1L
NEIC ML3.7(VIE).
WAR Mining induced
ISC IX 04 20 47 29±3.1 **51.6N**±.21 **16.2E**±.17 **0** **13 1-4**
WAR IX 04 20 47 32.1 51.4N 16.2E 2.5L **¶97ix0632**
NEIC IX 04 20 47 36.0 51.12N 15.89E 5
WAR Mining induced
NEIC ML3.1(VIE), Less reliable solution.
ISC IX 05 01 26 31.0±.55 **51.70N**±.040 **16.24E**±.072 **0** **35 1-18**
NEIC IX 05 01 26 31.4 51.73N 16.23E 5 **¶97ix0667**
EIDC IX 05 01 26 32.5 51.6N 16.7E 0 3.4L
SZGRF IX 05 01 26 33.9 51.4N 16.3E 1 3.6L
WAR IX 05 01 26 35.8 51.5N 16.0E 3.2L
NEIC ML3.6(VIE).
WAR Mining induced

Agency		Origin Time										h	Mag	n	Δ-Rng
		mo	d	h	m	s		ϕ °		λ °		km			°
ISC	**IX**	**05**	**19**	**28**	**22.5**±.54			**51.65N**±.041		**16.23E**±.089		**0**		**22**	**1-18**
NEIC	IX	05	19	28	23.1			51.65N		16.20E		5		**¶97ix0788**	
EIDC	IX	05	19	28	24.5			51.6N		16.1E		0	3.4L		
WAR	IX	05	19	28	27.0			51.47N		16.08E			2.7L		
NEIC	M_L3.3(VIE), M_L3.2(GRF).														
WAR	Mining induced														
ISC	**IX**	**06**	**12**	**54**	**43.6**±.59			**51.69N**±.047		**16.21E**±.089		**0**		**24**	**1-18**
NEIC	IX	06	12	54	44.1			51.69N		16.24E		5		**¶97ix0914**	
EIDC	IX	06	12	54	44.9			51.6N		16.5E		0	3.4L		
SZGRF	IX	06	12	54	45.2			51.6N		16.2E		1	3.3L		
WAR	IX	06	12	54	48.0			51.5N		16.1E			2.8L		
NEIC	M_L3.6(VIE)														
WAR	Mining induced														
ISC	**IX**	**06**	**19**	**34**	**49.3**±.71			**51.62N**±.054		**16.17E**±.093		**0**		**15**	**1-11**
NEIC	IX	06	19	34	49.4			51.60N		16.26E		5		**¶97ix0958**	
EIDC	IX	06	19	34	50.8			51.5N		16.5E		0	3.2L		
WAR	IX	06	19	34	53.2			51.5N		16.1E			2.4L		
NEIC	M_L3.1(VIE).														
WAR	Mining induced														
ISC	**IX**	**06**	**22**	**57**	**18.2**±.64			**51.62N**±.048		**16.10E**±.078		**0**		**14**	**1-19**
NEIC	IX	06	22	57	19.7			51.72N		15.73E		5		**¶97ix0981**	
EIDC	IX	06	22	57	20.6			51.6N		16.1E		0	3.1L		
WAR	IX	06	22	57	21.2			51.5N		16.1E			2.1L		
NEIC	Less reliable solution.														
WAR	Mining induced														
ISC	**IX**	**07**	**19**	**36**	**18.1**±.71			**51.62N**±.053		**16.15E**±.087		**0**		**16**	**1-11**
NEIC	IX	07	19	36	18.3			51.60N		16.28E		5		**¶97ix1117**	
EIDC	IX	07	19	36	20.0			51.5N		16.0E		0	3.1L		
WAR	IX	07	19	36	22.1			51.5N		16.1E			2.4L		
NEIC	M_L3.1(VIE), Less reliable solution.														
WAR	Mining induced														
ISC	**IX**	**08**	**13**	**32**	**47**±1.2			**50.5N**±.10		**18.86E**±.087		**0**		**11**	**1-3**
ISC	Possibly mining induced (after WAR)													**¶97ix1225**	
ISC	**IX**	**09**	**08**	**33**	**07.0**±.55			**51.60N**±.042		**16.23E**±.088		**0**		**20**	**1-19**
NEIC	IX	09	08	33	07.9			51.62N		16.22E		5		**¶97ix1343**	
EIDC	IX	09	08	33	08.9			51.5N		16.1E		0	3.3L		
WAR	IX	09	08	33	10.7			51.5N		16.1E			3.0L		
NEIC	M_L3.8(VIE).														
WAR	Mining induced														
ISC	**IX**	**12**	**16**	**20**	**24.6**±.51			**51.72N**±.038		**16.17E**±.077		**0**		**34**	**1-18**
NEIC	IX	12	16	20	25.0			51.72N		16.20E		5		**¶97ix1842**	
EIDC	IX	12	16	20	26.3			51.7N		16.2E		0	3.5L		
SZGRF	IX	12	16	20	26.7			51.5N		16.3E		1	3.8L		
WAR	IX	12	16	20	29.3			51.5N		16.0E			3.3L		
NEIC	M_L3.6(VIE).														
WAR	Mining induced														
ISC	**IX**	**13**	**18**	**37**	**56**±1.9			**51.6N**±.14		**16.2E**±.12		**0**		**11**	**1-4**
ISC	ML3.0 (MOA), possibly mining induced (after WAR)													**¶97ix2013**	
ISC	**IX**	**13**	**19**	**21**	**48**±1.7			**51.5N**±.13		**16.1E**±.10		**0**		**11**	**1-3**
ISC	Possibly mining induced (after WAR)													**¶97ix2023**	
ISC	**IX**	**14**	**05**	**47**	**58**±2.6			**51.4N**±.18		**16.0E**±.14		**0**		**8**	**1-3**
ISC	Possibly mining induced (after WAR)													**¶97ix2080**	
ISC	**IX**	**15**	**11**	**22**	**54**±2.1			**51.6N**±.15		**16.2E**±.10		**0**		**11**	**1-4**
WAR	IX	15	11	22	58.6			51.5N		16.1E			2.5L	**¶97ix2236**	
NEIC	IX	15	11	23	02.7			51.15N		15.84E		5			
WAR	Mining induced														
NEIC	M_L3.3(VIE), Less reliable solution.														
ISC	**IX**	**17**	**19**	**11**	**47.6**±.58			**51.64N**±.046		**16.27E**±.084		**0**		**23**	**1-18**
NEIC	IX	17	19	11	49.1			51.55N		16.25E		5		**¶97ix2547**	
EIDC	IX	17	19	11	49.7			51.5N		16.2E		0	3.6L		
WAR	IX	17	19	11	52.0			51.47N		16.08E			2.8L		
NEIC	M_L3.4(VIE), M_L3.4(GRF).														
WAR	Mining induced														
ISC	**IX**	**18**	**03**	**02**	**05.1**±.98			**50.37N**±.090		**18.90E**±.075		**0**		**14**	**1-4**
WAR	IX	18	03	02	06.9			50.3N		18.9E			3.0L	**¶97ix2601**	
WAR	Mining induced														
ISC	**IX**	**18**	**11**	**03**	**31**±2.1			**51.6N**±.15		**16.2E**±.11		**0**		**10**	**1-3**
WAR	IX	18	11	03	34.5			51.5N		16.1E			2.3L	**¶97ix2649**	
NEIC	IX	18	11	03	39.8			51.07N		15.85E		5			
WAR	Mining induced														
NEIC	MG2.3(WAR), Less reliable solution.														
ISC	**IX**	**19**	**02**	**35**	**08.7**±.55			**51.65N**±.041		**16.24E**±.075		**0**		**30**	**1-18**
NEIC	IX	19	02	35	09.0			51.64N		16.28E		5		**¶97ix2740**	
EIDC	IX	19	02	35	10.4			51.6N		16.1E		0	3.3L		
SZGRF	IX	19	02	35	10.5			51.5N		16.3E		1	3.3L		
WAR	IX	19	02	35	12.7			51.5N		16.1E			2.8L		
NEIC	M_L3.3(VIE).														
WAR	Mining induced														
ISC	**IX**	**20**	**03**	**20**	**22.4**±.51			**50.49N**±.041		**18.98E**±.062		**0**		**24**	**1-19**
NEIC	IX	20	03	20	23.2			50.49N		18.97E		5		**¶97ix2888**	
EIDC	IX	20	03	20	24.1			50.4N		18.9E		0	3.6L		
WAR	IX	20	03	20	25.5			50.3N		19.0E			3.3L		
NEIC	M_L3.3(VIE), M_L3.0(CLL).														
WAR	Mining induced														
ISC	**IX**	**20**	**18**	**44**	**16**±1.1			**51.45N**±.090		**16.20E**±.090		**0**		**26**	**1-6**
NEIC	IX	20	18	44	15.6			51.49N		16.18E		5		**¶97ix2986**	
WAR	IX	20	18	44	17.3			51.5N		16.1E			3.0L		
SZGRF	IX	20	18	44	17.8			51.4N		16.1E		1	3.4L		
NEIC	M_L3.7(VIE).														
WAR	Mining induced														
ISC	**IX**	**21**	**21**	**31**	**10**±1.7			**50.0N**±.12		**18.6E**±.19		**0**		**9**	**1-12**
NEIC	IX	21	21	31	10.7			50.09N		18.54E		5		**¶97ix3165**	
EIDC	IX	21	21	31	13.2			50.1N		18.3E		0	3.0L		
ISC	Possibly mining induced (after WAR)														
NEIC	M_L2.7(VIE), Poor solution.														
ISC	**IX**	**22**	**03**	**19**	**12**±1.9			**51.6N**±.14		**16.1E**±.11		**0**		**10**	**1-4**
NEIC	IX	22	03	19	18.2			51.28N		15.90E		5		**¶97ix3203**	
ISC	Possibly mining induced (after WAR)														
NEIC	M_L3.1(VIE), Less reliable solution.														
ISC	**IX**	**22**	**17**	**48**	**40.0**±.85			**54.76N**±.076		**19.6E**±.17		**0**	4.7b	**8**	**6-24**
EIDC	IX	22	17	48	42.5			54.7N		19.7E		0	3.6L,4.7b	**¶97ix3308**	
ISC	**IX**	**22**	**18**	**06**	**52.8**±.99			**54.69N**±.085		**19.5E**±.20		**0**		**6**	**6-15**
EIDC	IX	22	18	06	55.5			54.7N		19.5E		0	3.7L	**¶97ix3311**	
ISC	**IX**	**24**	**01**	**40**	**19.0**±.79			**51.69N**±.055		**16.1E**±.12		**0**		**13**	**1-11**
NEIC	IX	24	01	40	19.4			51.68N		16.21E		5		**¶97ix3508**	
EIDC	IX	24	01	40	20.7			51.6N		16.3E		0	3.0L		
ISC	Possibly mining induced (after WAR)														
NEIC	M_L3.0(VIE).														
ISC	**IX**	**24**	**16**	**14**	**20**±2.7			**51.2N**±.17		**15.8E**±.16		**0**		**7**	**0-3**
ISC	Possibly mining induced (after WAR)													**¶97ix3601**	
ISC	**IX**	**24**	**19**	**17**	**23**±2.6			**51.5N**±.17		**15.9E**±.15		**0**		**10**	**1-4**
NEIC	IX	24	19	17	26.6			51.35N		16.00E		5		**¶97ix3622**	
ISC	Possibly mining induced (after WAR)														
NEIC	M_L2.9(VIE), Poor solution.														
ISC	**IX**	**25**	**19**	**18**	**48**±4.7			**51.5N**±.27		**15.9E**±.26		**0**		**7**	**1-3**
ISC	Possibly mining induced (after WAR)													**¶97ix3778**	
ISC	**IX**	**25**	**19**	**19**	**58**±2.7			**51.4N**±.18		**15.9E**±.17		**0**		**9**	**1-4**
ISC	ML3.5 (MOA), possibly mining induced (after WAR)													**¶97ix3779**	
ISC	**IX**	**26**	**00**	**13**	**44**±3.5			**51.5N**±.23		**16.1E**±.19		**0**		**10**	**1-4**
ISC	Possibly mining induced (after WAR)													**¶97ix3809**	
ISC	**IX**	**26**	**15**	**31**	**08.1**±.56			**51.65N**±.043		**16.23E**±.097		**0**		**20**	**1-18**
NEIC	IX	26	15	31	08.6			51.65N		16.24E		5		**¶97ix4058**	
EIDC	IX	26	15	31	10.3			51.6N		16.4E		0	3.4L		
WAR	IX	26	15	31	11.6			51.5N		16.1E			2.9L		
NEIC	M_L2.9(CLL).														
WAR	Mining induced														
ISC	**IX**	**27**	**04**	**40**	**10.0**±.73			**51.58N**±.056		**16.13E**±.093		**0**		**13**	**1-11**
NEIC	IX	27	04	40	10.3			51.58N		16.23E		5		**¶97ix4247**	
EIDC	IX	27	04	40	12.2			51.5N		16.1E		0	3.0L		
ISC	Possibly mining induced (after WAR)														
NEIC	MG2.6(WAR).														
ISC	**IX**	**29**	**03**	**42**	**11**±2.0			**51.6N**±.15		**16.1E**±.11		**0**		**10**	**1-3**
NEIC	IX	29	03	42	11.5			51.61N		16.18E		5		**¶97ix4858**	
ISC	Possibly mining induced (after WAR)														
NEIC	MG2.6(WAR), Poor solution.														
ISC	**IX**	**30**	**02**	**26**	**37**±7.6			**50.6N**±.26		**18.9E**±.65		**0**		**7**	**1-4**
ISC	Possibly mining induced (after WAR)													**¶97ix5102**	
ISC	**X**	**02**	**11**	**11**	**19**±1.7			**51.6N**±.13		**16.18E**±.098		**0**		**14**	**1-4**
WAR	X	02	11	11	22.5			51.5N		16.1E			2.8L	**¶97x0266**	
WAR	Mining induced														
ISC	**X**	**03**	**04**	**17**	**36.0**±.52			**51.70N**±.038		**16.17E**±.077		**0**		**34**	**1-18**
NEIC	X	03	04	17	36.6			51.70N		16.18E		5		**¶97x0383**	
EIDC	X	03	04	17	38.0			51.6N		16.2E		0	3.5L		
SZGRF	X	03	04	17	39.0			51.5N		16.2E		1	3.8L		
WAR	X	03	04	17	40.6			51.5N		16.0E			3.3L		
NEIC	M_L3.6(VIE).														
WAR	Mining induced														
ISC	**X**	**03**	**15**	**05**	**08**±1.9			**51.2N**±.14		**15.8E**±.12		**0**		**8**	**1-3**
WAR	X	03	15	05	05.6			51.5N		16.1E			2.6L	**¶97x0485**	
WAR	Mining induced														
ISC	**X**	**04**	**03**	**24**	**12.2**±.73			**51.63N**±.051		**16.2E**±.13		**0**		**14**	**1-18**
NEIC	X	04	03	24	12.2			51.65N		16.29E		5		**¶97x0569**	
EIDC	X	04	03	24	14.5			51.5N		16.0E		0	3.0L		
WAR	X	04	03	24	15.8			51.51N		16.07E			2.4L		
WAR	Mining induced														
ISC	**X**	**04**	**03**	**40**	**33.4**±.54			**51.64N**±.045		**16.19E**±.072		**0**		**22**	**1-18**
NEIC	X	04	03	40	34.1			51.64N		16.20E		5		**¶97x0574**	
EIDC	X	04	03	40	35.1			51.6N		16.2E		0	3.2L		
WAR	X	04	03	40	37.0			51.48N		16.09E			2.8L		
NEIC	M_L3.5(GRF), M_L3.3(VIE).														
WAR	Mining induced														
ISC	**X**	**04**	**08**	**45**	**15.1**±.63			**51.62N**±.047		**16.24E**±.085		**0**		**21**	**1-18**
NEIC	X	04	08	45	15.7			51.61N		16.33E		5		**¶97x0613**	
EIDC	X	04	08	45	17.0			51.5N		16.4E		0	3.3L		
WAR	X	04	08	45	19.4			51.5N		16.1E			2.9L		
NEIC	M_L3.7(VIE), M_L3.5(GRF).														
WAR	Mining induced														
ISC	**X**	**06**	**19**	**18**	**19.2**±.47			**51.65N**±.039		**16.21E**±.069		**0**		**26**	**1-18**
NEIC	X	06	19	18	19.7			51.64N		16.22E		5		**¶97x1105**	
EIDC	X	06	19	18	20.9			51.6N		16.3E		0	3.5L		
WAR	X	06	19	18	24.0			51.47N		16.08E			3.0L		
NEIC	M_L3.6(GRF), M_L3.5(VIE).														
WAR	Mining induced														
ISC	**X**	**08**	**20**	**33**	**58**±3.6			**51.5N**±.25		**16.1E**±.24		**0**		**9**	**1-3**
NEIC	X	08	20	34	03.6			51.17N		15.88E		5		**¶97x1469**	
ISC	Possibly mining induced (after WAR)														
NEIC	Less reliable solution.														
ISC	**X**	**09**	**05**	**05**	**54.1**±.91			**50.1N**±.12		**19.04E**±.076		**0**		**9**	**1-4**
WAR	X	09	05	05	55.0			50.1N		19.1E			3.0L	**¶97x1529**	
WAR	Mining induced														
ISC	**X**	**09**	**05**	**07**	**09**±1.3			**50.3N**±.14		**18.77E**±.091		**0**		**8**	**1-4**
WAR	X	09	05	07	10.0			50.4N		18.9E			3.0L	**¶97x1530**	
WAR	Mining induced														
ISC	**X**	**11**	**23**	**38**	**51.1**±.90			**51.65N**±.065		**16.2E**±.18		**0**		**10**	**1-11**
NEIC	X	11	23	38	51.4			51.64N		16.36E		5		**¶97x1957**	
EIDC	X	11	23	38	53.2			51.6N		16.1E		0	3.0L		
ISC	Probably mining induced (after WAR)														
NEIC	Less reliable solution.														
ISC	**X**	**15**	**19**	**20**	**46.1**±.58			**51.58N**±.046		**16.24E**±.078		**0**		**21**	**1-19**
NEIC	X	15	19	20	47.0			51.59N		16.23E		5		**¶97x2699**	
EIDC	X	15	19	20	48.1			51.5N		16.1E		0	3.2L		
WAR	X	15	19	20	50.0			51.47N		16.13E			2.6L		
NEIC	M_L3.2(GRF), M_L3.2(VIE).														
WAR	Mining induced														
ISC	**X**	**17**	**19**	**00**	**20.3**±.59			**51.72N**±.046		**16.10E**±.093		**0**		**19**	**1-11**
NEIC	X	17	19	00	20.8			51.74N		16.11E		5		**¶97x3044**	
EIDC	X	17	19	00	22.2			51.6N		16.0E		0	3.1L		
WAR	X	17	19	00	24.4			51.5N		16.0E			3.0L		
NEIC	M_L3.6(VIE), M_L3.1(CLL).														
WAR	Mining induced														
ISC	**X**	**17**	**19**	**11**	**59.4**±.82			**51.57N**±.065		**16.26E**±.087		**0**		**20**	**1-11**
NEIC	X	17	19	11	59.3			51.71N		16.12E		5		**¶97x3046**	
EIDC	X	17	19	12	00.7			51.7N		15.7E		0	3.2L		
WAR	X	17	19	12	02.0			51.47N		16.13E			3.0L		
NEIC	M_L3.8(VIE), M_L3.5(GRF).														
WAR	Mining induced														
ISC	**X**	**18**	**07**	**10**	**48.5**±.91			**50.0N**±.10		**18.44E**±.079		**0**		**7**	**0-3**
WAR	X	18	07	10	49.0			50.06N		18.47E			2.7L	**¶97x3116**	
WAR	Mining induced														
ISC	**X**	**18**	**08**	**07**	**30.9**±.54			**50.06N**±.044		**18.57E**±.068		**0**		**33**	**0-20**
NEIC	X	18	08	07	31.0			49.93N		18.79E		10		**¶97x3122**	
EIDC	X	18	08	07	31.7			49.8N		18.7E		0	4.0L,3.4b		
SZGRF	X	18	08	07	38.4			49.8N		18.2E		1	4.0L		
ISC	Possibly mining induced (after WAR)														
NEIC	M_L3.7(VIE).														
NEIC	ML 3.6 (CLL).														
ISC	**X**	**18**	**11**	**35**	**51.7**±.59			**51.64N**±.046		**16.24E**±.081		**0**		**21**	**1-18**
NEIC	X	18	11	35	52.4			51.66N		16.21E		5		**¶97x3151**	
EIDC	X	18	11	35	53.7			51.5N		16.3E		0	3.5L		
WAR	X	18	11	35	56.0			51.48N		16.09E			2.8L		

NEIC M_L3.7(VIE).
WAR Mining induced
ISC X 18 18 43 51.9±.43 **51.61N**±.034 **16.28E**±.063 **0** **43 1-19**
NEIC X 18 18 43 52.4 51.62N 16.26E 5 **¶97x3213**
EIDC X 18 18 43 53.8 51.5N 16.2E 0 3.6L
SZGRF X 18 18 43 55.4 51.4N 16.2E 1 3.6L
WAR X 18 18 43 56.2 51.5N 16.1E 3.2L
NEIC M_L3.6(VIE).
WAR Mining induced
ISC X 28 21 14 41.9±.93 **50.17N**±.085 **18.46E**±.074 **0** **10 0-3**
WAR X 28 21 14 43.0 50.07N 18.52E 2.8L **¶97x4816**
WAR Mining induced
ISC X 29 18 50 15±1.8 **51.3N**±.13 **15.8E**±.12 **0** **13 1-4**
ISC ML2.7, mining induced (after WAR)
EIDC X 30 12 29 04.2 53.0N 14.4E 0 3.4L ¶97x4938
ISC X 31 20 19 45.1±.73 **51.61N**±.054 **16.12E**±.081 **0** **15 1-11**
NEIC X 31 20 19 46.1 51.68N 16.10E 5 **¶97x5226**
EIDC X 31 20 19 47.1 51.5N 16.1E 0 2.8L
ISC Possibly mining induced (after WAR)
NEIC M_L2.8(VIE), Less reliable solution.
ISC XI 01 03 13 56±3.8 **51.7N**±.30 **16.0E**±.21 **0** **6 2-3**
ISC Possibly mining induced (after WAR) **¶97xi0021**
ISC XI 01 18 47 38.1±.48 **51.67N**±.038 **16.15E**±.072 **0** **35 1-18**
NEIC XI 01 18 47 38.6 51.68N 16.13E 5 **¶97xi0124**
EIDC XI 01 18 47 39.5 51.6N 16.1E 0 3.7L
ISC Possibly mining induced (after WAR)
NEIC M_L3.7(GRF), M_L3.4(FUR).
NEIC ML 3.4 (VIE).
ISC XI 02 11 25 59±2.1 **51.7N**±.16 **16.0E**±.10 **0** **12 1-4**
WAR XI 02 11 26 02.7 51.5N 16.0E 2.4L **¶97xi0251**
NEIC XI 02 11 26 07.5 51.12N 15.74E 5
WAR Mining induced
NEIC M_L3.0(VIE), Less reliable solution.
ISC XI 02 12 34 58±3.1 **51.4N**±.22 **15.9E**±.19 **0** **5 1-3**
ISC Possibly mining induced (after WAR) **¶97xi0259**
ISC XI 04 01 34 32±1.1 **50.3N**±.11 **18.92E**±.076 **0** **9 1-4**
WAR XI 04 01 34 33.4 50.2N 19.0E 2.7L **¶97xi0556**
WAR Mining induced
ISC XI 05 18 53 21.2±.75 **50.45N**±.065 **19.01E**±.075 **0** **12 1-12**
NEIC XI 05 18 53 21.9 50.48N 19.08E 5 **¶97xi0844**
EIDC XI 05 18 53 23.1 50.3N 19.0E 0 3.3L
WAR XI 05 18 53 24.3 50.28N 19.11E 2.7L
NEIC Less reliable solution.
WAR Mining induced
ISC XI 05 23 22 47.6±.53 **50.44N**±.044 **19.00E**±.063 **0** **26 1-19**
NEIC XI 05 23 22 46.5 50.28N 19.34E 5 **¶97xi0882**
EIDC XI 05 23 22 47.6 50.2N 19.3E 0 3.7L
WAR XI 05 23 22 50.2 50.2N 19.1E 3.4L
NEIC M_L3.3(VIE).
WAR Mining induced
ISC XI 06 02 23 37.1±.82 **51.66N**±.062 **16.1E**±.12 **0** **9 2-11**
EIDC XI 06 02 23 39.4 51.6N 16.0E 0 2.9L **¶97xi0907**
ISC Possibly mining induced (after WAR)
ISC XI 06 03 51 13±1.8 **51.6N**±.13 **16.1E**±.11 **0** **14 1-4**
WAR XI 06 03 51 15.9 51.5N 16.1E 2.9L **¶97xi0919**
NEIC XI 06 03 51 20.1 51.14N 15.88E 5
WAR Mining induced
NEIC M_L3.2(VIE), Less reliable solution.
ISC XI 07 06 03 44.5±.74 **50.55N**±.066 **18.96E**±.086 **0** **14 1-19**
NEIC XI 07 06 03 45.3 50.59N 18.98E 5 **¶97xi1084**
WAR XI 07 06 03 46.6 50.4N 18.9E 3.0L
EIDC XI 07 06 03 46.9 50.6N 18.6E 0 3.2L
NEIC M_L2.9(VIE).
WAR Mining induced
ISC XI 08 12 19 29.8±.40 **51.69N**±.033 **16.25E**±.055 **0** 4.0b **55 1-75**
NEIC XI 08 12 19 30.7 51.68N 16.25E 5 **¶97xi1279**
EIDC XI 08 12 19 31.4 51.6N 16.6E 0 3.9L,4.0b
SZGRF XI 08 12 19 32.9 51.5N 16.3E 1 4.0L
WAR XI 08 12 19 34.0 51.51N 16.14E 3.5L
STR XI 08 12 19 36.5 51.02N 15.73E 24 4.1L
NEIC M_L3.9(VIE).
SZGRF mining induced
WAR Mining induced
ISC XI 10 17 23 25±3.4 **51.7N**±.22 **16.1E**±.18 **0** **8 1-3**
NEIC XI 10 17 23 32.3 51.20N 15.93E 5 **¶97xi1648**
ISC Possibly mining induced (after WAR)
NEIC Poor solution.
ISC XI 11 22 42 02±2.3 **51.7N**±.16 **16.2E**±.13 **0** **8 1-4**
ISC Possibly mining induced (after WAR) **¶97xi1886**
ISC XI 14 19 01 26±2.4 **51.4N**±.16 **15.8E**±.14 **0** **10 1-4**
NEIC XI 14 19 01 24.2 51.60N 16.11E 5 **¶97xi2335**
WAR XI 14 19 01 26.2 51.5N 16.0E 2.4L
NEIC M_L3.3(VIE), Poor solution.
WAR Mining induced
ISC XI 16 04 18 17.4±.62 **51.64N**±.048 **16.1E**±.10 **0** **16 1-18**
NEIC XI 16 04 18 18.0 51.62N 16.31E 5 **¶97xi2595**
EIDC XI 16 04 18 19.2 51.6N 16.1E 0 3.0L
WAR XI 16 04 18 21.0 51.48N 16.09E 2.4L
NEIC M_L3.0(VIE).
WAR Mining induced
ISC XI 16 12 58 28±3.0 **51.5N**±.20 **16.0E**±.20 **0** **9 1-4**
NEIC XI 16 12 58 29.1 51.43N 16.15E 5 **¶97xi2650**
ISC Possibly mining induced (after WAR)
NEIC M_L3.0(VIE), Less reliable solution.
ISC XI 17 20 16 18.5±.46 **51.64N**±.038 **16.20E**±.075 **0** **31 1-18**
NEIC XI 17 20 16 19.2 51.65N 16.14E 5 **¶97xi2855**
EIDC XI 17 20 16 20.0 51.6N 16.2E 0 4.0L
WAR XI 17 20 16 23.0 51.47N 16.08E 3.2L
NEIC M_L3.7(GRF), M_L3.5(FUR).
NEIC ML 3.4 (VIE).
WAR Mining induced
ISC XI 18 01 34 00.4±.44 **51.69N**±.036 **16.12E**±.057 **0** **51 1-18**
NEIC XI 18 01 34 00.8 51.70N 16.13E 5 **¶97xi2893**
EIDC XI 18 01 34 02.0 51.6N 16.0E 0 3.9L
SZGRF XI 18 01 34 03.5 51.5N 16.1E 1 3.9L
WAR XI 18 01 34 04.8 51.5N 16.0E 3.6L
NEIC M_L3.9(FUR).
NEIC ML 3.8 (VIE).
SZGRF mining induced
WAR Mining induced
ISC XI 18 22 06 11.1±.77 **50.0N**±.10 **18.50E**±.074 **0** **11 0-4**
WAR XI 18 22 06 12.0 50.07N 18.53E 2.9L **¶97xi3074**
WAR Mining induced
ISC XI 20 05 03 49.7±.52 **51.65N**±.042 **16.18E**±.068 **0** 3.4b **26 1-37**
NEIC XI 20 05 03 50.4 51.66N 16.24E 5 **¶97xi3396**
EIDC XI 20 05 03 51.0 51.6N 16.2E 0 3.2L,3.5b
WAR XI 20 05 03 54.0 51.47N 16.13E 2.7L
NEIC M_L3.3(VIE).
WAR Mining induced
ISC XI 20 09 22 52±1.7 **54.9N**±.11 **19.3E**±.30 **0** **6 6-15**
EIDC XI 20 09 22 54.3 54.9N 19.3E 0 3.6L **¶97xi3431**
ISC XI 23 18 12 42.4±.75 **51.64N**±.057 **16.06E**±.084 **0** **13 1-11**
NEIC XI 23 18 12 43.0 51.66N 16.07E 5 **¶97xi4169**
EIDC XI 23 18 12 44.8 51.6N 15.9E 0 2.8L
ISC Possibly mining induced (after WAR)
NEIC M_L2.9(VIE), Less reliable solution.
ISC XI 26 04 29 23±3.5 **51.6N**±.21 **16.2E**±.20 **0** **7 1-3**
NEIC XI 26 04 29 26.4 51.40N 16.19E 5 **¶97xi4631**
ISC Possibly mining induced (after WAR)
NEIC Poor solution.
ISC XI 27 06 38 17.9±.45 **51.67N**±.039 **16.08E**±.064 **0** **3.7b** **39 1-75**
NEIC XI 27 06 38 18.0 51.64N 16.16E 5 **¶97xi4815**
EIDC XI 27 06 38 19.6 51.6N 16.2E 0 3.8L,3.6b
SZGRF XI 27 06 38 19.7 51.5N 16.2E 1 3.7L
WAR XI 27 06 38 21.1 51.5N 16.1E 3.4L
NEIC M_L3.7(VIE).
SZGRF mining induced
WAR Mining induced
ISC XI 29 12 26 25±5.7 **51.6N**±.34 **16.1E**±.33 **0** **10 1-3**
WAR XI 29 12 26 28.0 51.48N 16.12E 2.4L **¶97xi5265**
NEIC XI 29 12 26 32.3 51.18N 15.86E 5
WAR Mining induced
NEIC MG2.6(WAR), Less reliable solution.
ISC XI 30 01 09 31±1.1 **51.62N**±.082 **16.1E**±.11 **0** **26 1-5**
NEIC XI 30 01 09 30.8 51.68N 16.07E 5 **¶97xi5349**
SZGRF XI 30 01 09 32.5 51.6N 16.1E 1 3.5L
NEIC M_L3.8(VIE).
NEIC ML 3.5 (FUR).
SZGRF mining induced
ISC XI 30 15 47 45±1.9 **51.5N**±.15 **16.1E**±.11 **0** **8 1-3**
NEIC XI 30 15 47 48.7 51.40N 16.15E 5 **¶97xi5427**
ISC Possibly mining induced (after WAR)
NEIC MG2.4(WAR), Less reliable solution.
ISC XI 30 23 29 04±2.0 **51.6N**±.15 **16.0E**±.11 **0** **7 1-3**
NEIC XI 30 23 29 12.3 51.07N 15.67E 5 **¶97xi5479**
ISC Possibly mining induced (after WAR)
NEIC MG2.3(WAR), Less reliable solution.
ISC XII 08 03 31 42±1.4 **51.1N**±.13 **15.67E**±.091 **0** **9 0-3**
WAR XII 08 03 31 39.0 51.5N 16.1E 2.5L **¶97xii1852**
NEIC XII 08 03 31 44.0 51.04N 15.78E 5
WAR Mining induced
NEIC M_L2.9(VIE).
ISC XII 08 08 48 58.5±.63 **51.67N**±.048 **16.28E**±.094 **0** **21 1-18**
NEIC XII 08 08 48 59.2 51.67N 16.28E 5 **¶97xii1897**
EIDC XII 08 08 49 00.4±1.77 51.6N 16.2E 0 3.4L
WAR XII 08 08 49 02.7 51.5N 16.1E 3.0L
NEIC M_L3.7(GRF), M_L3.5(VIE).
EIDC Error ellipse is semi−major=36.2km semi−minor=15.5km azimuth=110
WAR Mining induced
ISC XII 08 18 48 10.7±.79 **51.70N**±.058 **16.1E**±.10 **0** **17 1-11**
NEIC XII 08 18 48 11.0 51.67N 16.25E 5 **¶97xii1991**
EIDC XII 08 18 48 12.6±2.12 51.6N 16.5E 0 3.3L
WAR XII 08 18 48 14.8 51.5N 16.1E 2.8L
NEIC MG2.9(WAR).
EIDC Error ellipse is semi−major=25.9km semi−minor=15.5km azimuth=99
WAR Mining induced
ISC XII 09 15 23 27±1.7 **51.4N**±.15 **15.8E**±.12 **0** **9 1-4**
WAR XII 09 15 23 25.1 51.5N 16.1E 3.0L **¶97xii2192**
NEIC XII 09 15 23 26.4 51.37N 16.10E 5
WAR Mining induced
NEIC M_L3.5(VIE), Poor solution.
ISC XII 11 00 07 15.4±.51 **51.71N**±.039 **16.08E**±.070 **0** 3.4b **38 1-60**
NEIC XII 11 00 07 15.6 51.71N 16.15E 5 3.5b **¶97xii2447**
SZGRF XII 11 00 07 17.5 51.6N 16.1E 1 3.7L
EIDC XII 11 00 07 17.5±1.23 51.7N 16.4E 0 3.5L,3.4b
WAR XII 11 00 07 19.6 51.5N 16.0E 3.3L
NEIC M_L3.7(VIE).
SZGRF mining induced
EIDC Error ellipse is semi−major=27.0km semi−minor=10.8km azimuth=100
WAR Mining induced
ISC XII 11 23 09 54.6±.69 **50.49N**±.064 **18.97E**±.076 **0** **12 1-19**
NEIC XII 11 23 09 55.1 50.50N 18.95E 5 **¶97xii2654**
EIDC XII 11 23 09 55.8±2.62 50.4N 19.0E 0 3.1L
WAR XII 11 23 09 57.3 50.2N 19.0E 2.7L
NEIC MG2.6(WAR).
EIDC Error ellipse is semi−major=38.5km semi−minor=17.0km azimuth=132
WAR Mining induced
ISC XII 13 17 59 31.1±.75 **51.67N**±.055 **16.1E**±.10 **0** **14 1-11**
NEIC XII 13 17 59 31.7 51.66N 16.20E 5 **¶97xii2987**
EIDC XII 13 17 59 33.6±2.11 51.6N 16.1E 0 3.0L
WAR XII 13 17 59 35.3 51.5N 16.0E 2.7L
NEIC M_L3.4(VIE).
EIDC Error ellipse is semi−major=25.6km semi−minor=15.4km azimuth=91
WAR Mining induced
ISC XII 13 18 03 08.2±.85 **54.69N**±.058 **19.3E**±.14 **0** **13 3-15**
EIDC XII 13 18 03 10.8±2.21 54.7N 19.2E 0 3.7L **¶97xii2989**
EIDC Error ellipse is semi−major=35.4km semi−minor=19.6km azimuth=97
EIDC XII 15 09 20 47.2±6.11 **54.8N 19.6E 0 3.6L 6-15**
EIDC Error ellipse is semi−major=69.0km semi−minor=34.0km azimuth=30 **¶97xii3261**
ISC XII 16 04 24 43.6±.55 **51.73N**±.042 **16.23E**±.092 **0** **28 1-18**
NEIC XII 16 04 24 44.1 51.70N 16.28E 5 **¶97xii3382**
EIDC XII 16 04 24 44.5±2.13 51.6N 16.6E 0 3.5L
WAR XII 16 04 24 48.0 51.51N 16.07E 3.0L
NEIC M_L3.6(GRF), M_L3.5(VIE).
EIDC Error ellipse is semi−major=46.6km semi−minor=18.1km azimuth=111
WAR Mining induced
ISC XII 17 21 04 07.0±.76 **51.70N**±.061 **16.0E**±.10 **0** **14 1-12**
NEIC XII 17 21 04 07.6 51.69N 16.15E 5 **¶97xii3662**
EIDC XII 17 21 04 09.4±2.35 51.7N 15.8E 0 3.4L
ISC Possibly mining induced (after WAR)
NEIC M_L3.7(VIE).
EIDC Error ellipse is semi−major=38.8km semi−minor=17.3km azimuth=109

Agency		Origin Time		ϕ	λ	h	Mag	n	Δ-Rng
	mo	d h m s		°	°	km			°
ISC	**XII**	**20 04 22 35.0**±.55		**51.65N**±.040	**16.24E**±.095	**0**		**29**	**1-18**
NEIC	XII	20 04 22 35.6		51.67N	16.19E	5			¶97xii4079
EIDC	XII	20 04 22 36.7±2.39		51.6N	16.1E	0	3.6L		
WAR	XII	20 04 22 39.0		51.47N	16.12E		3.1L		
NEIC	M_L3.7(GRF), M_L3.4(VIE).								
EIDC	Error ellipse is semi−major=40.4km semi−minor=25.3km azimuth=110								
WAR	Mining induced								
ISC	**XII**	**20 23 24 18**±1.1		**50.4N**±.12	**18.91E**±.095	**0**		**10**	**1-4**
WAR	XII	20 23 24 20.4		50.2N	18.9E		2.9L		¶97xii4181
WAR	Mining induced								
ISC	**XII**	**21 00 57 32**±1.4		**50.4N**±.15	**18.8E**±.11	**0**		**9**	**1-4**
WAR	XII	21 00 57 32.5		50.28N	18.87E		2.8L		¶97xii4189
WAR	Mining induced								
ISC	**XII**	**21 01 04 53**±3.8		**51.4N**±.23	**16.0E**±.23	**0**		**8**	**1-3**
ISC	Possibly mining induced (after WAR)								¶97xii4190
ISC	**XII**	**21 13 28 45**±2.7		**51.3N**±.17	**15.9E**±.16	**0**		**9**	**1-3**
NEIC	XII	21 13 28 49.6		51.04N	15.87E	5			¶97xii4257
ISC	Possibly mining induced								
NEIC	Less reliable solution.								
ISC	**XII**	**23 05 46 06.1**±.56		**51.62N**±.043	**16.18E**±.080	**0**		**17**	**1-19**
EIDC	XII	23 05 46 08.4±1.56		51.6N	16.0E	0	3.3L		¶97xii4546
NEIC	XII	23 05 46 09.3		51.49N	16.06E	5			
WAR	XII	23 05 46 10.3		51.5N	16.1E		2.6L		
EIDC	Error ellipse is semi−major=22.5km semi−minor=13.7km azimuth=99								
NEIC	M_L3.2(VIE), Poor solution.								
WAR	Mining induced								
ISC	**XII**	**23 14 33 57**±1.4		**54.99N**±.093	**19.9E**±.32	**0**	3.5b	**7**	**6-33**
EIDC	XII	23 14 33 59.9±2.61		55.0N	19.9E	0	3.5L		¶97xii4616
EIDC	Error ellipse is semi−major=29.6km semi−minor=20.4km azimuth=85								
ISC	**XII**	**23 19 13 34**±1.2		**50.4N**±.14	**18.8E**±.10	**0**		**13**	**1-5**
WAR	XII	23 19 13 35.8		50.4N	18.8E		3.0L		¶97xii4647
NEIC	XII	23 19 13 36.4		50.25N	18.85E	5			
WAR	Mining induced								
NEIC	M_L3.3(VIE), M_L3.0(CLL), Less reliable solution.								
ISC	**XII**	**29 20 24 36.0**±.85		**51.63N**±.056	**16.1E**±.11	**0**		**13**	**1-11**
NEIC	XII	29 20 24 36.7		51.63N	16.26E	5			¶97xii5633
EIDC	XII	29 20 24 38.3±2.10		51.6N	16.2E	0	2.7L		
ISC	Possibly mining induced (after WAR)								
NEIC	M_L2.5(VIE), Less reliable solution.								
EIDC	Error ellipse is semi−major=27.6km semi−minor=17.3km azimuth=101								
ISC	**XII**	**29 20 36 30**±2.1		**51.6N**±.15	**16.1E**±.12	**0**		**9**	**1-4**
NEIC	XII	29 20 36 38.7		51.10N	15.76E	5			¶97xii5637
ISC	Possibly mining induced (after WAR)								
NEIC	MG2.5(WAR), Less reliable solution.								
ISC	**XII**	**30 20 11 20.8**±.64		**51.60N**±.050	**16.1E**±.10	**0**		**14**	**1-19**
NEIC	XII	30 20 11 21.7		51.63N	16.13E	5			¶97xii5783
EIDC	XII	30 20 11 22.5±1.99		51.5N	16.1E	0	3.2L		
WAR	XII	30 20 11 24.0		51.47N	16.07E		2.4L		
NEIC	M_L2.8(VIE).								
EIDC	Error ellipse is semi−major=37.0km semi−minor=15.7km azimuth=112								
WAR	Mining induced								
ISC	**XII**	**31 11 51 05**±1.9		**51.6N**±.14	**16.2E**±.13	**0**		**9**	**1-3**
NEIC	XII	31 11 51 05.9		51.59N	16.30E	5			¶97xii5891
ISC	Possibly mining induced (after WAR)								
NEIC	M_L2.5(CLL), Less reliable solution.								
EIDC	**XII**	**31 13 41 54.3**±4.01		**51.0N**	**18.6E**	**0**	**3.4L**		**2-11**
									¶97xii5907
EIDC	Possibly mining induced (after WAR)Error ellipse is semi−major=64.0km semi−minor=21.1km azimuth=127								
ISC	**XII**	**31 18 42 27.7**±.67		**51.67N**±.049	**16.1E**±.10	**0**		**13**	**1-11**
NEIC	XII	31 18 42 28.8		51.66N	16.24E	5			¶97xii5947
EIDC	XII	31 18 42 29.2±2.17		51.6N	16.4E	0	3.1L		
ISC	Possibly mining induced (after WAR)								
EIDC	Error ellipse is semi−major=27.2km semi−minor=16.4km azimuth=104								
ISC	**XII**	**31 23 20 37.7**±.78		**50.55N**±.067	**19.00E**±.098	**0**		**10**	**1-12**
NEIC	XII	31 23 20 37.9		50.56N	18.92E	5			¶97xii6000
EIDC	XII	31 23 20 39.6±2.88		50.5N	18.8E	0	2.9L		
WAR	XII	31 23 20 40.4		50.34N	18.97E		3.0L		
NEIC	MG3.0(WAR).								
EIDC	Error ellipse is semi−major=36.2km semi−minor=18.8km azimuth=123								
WAR	Mining induced								

(549) Hungary.

ISC	**VII**	**16 20 43 30.6**±.94	**47.71N**±.061	**17.20E**±.067	**6**±9.4			**15**	**0-5**
NEIC	VII	16 20 43 30.9	47.73N	17.27E	10				¶97vii2492
NEIC	M_L2.6(VIE), M_L2.5(BRA), Less reliable solution.								
LJU	**IX**	**15 14 26 57.4**	**46.2N**	**17.3E**	**7**				¶97ix2252

SEISMIC REGION 37. AFRICA.

(553) Egypt.

ISC	**VII**	**01 02 14 28**±2.3	**29.31N**±.094	**34.9E**±.20	**14**±11			**9**	**0-1**
JSO	VII	01 02 14 30.0	29.37N	34.98E	8	2.6L			¶97vii0011
JSO	**VII**	**01 03 45 14.4**	**29.35N**	**34.92E**	**9**	**2.5L**			¶97vii0026
ISC	**VII**	**01 04 02 50.7**±.82	**29.33N**±.036	**34.82E**±.078	**8**±6.4			**23**	**0-2**
IPRG	VII	01 04 02 50.5±1.17	29.3N	35.0E	10±3.0	2.2L			¶97vii0028
JSO	VII	01 04 02 53.6	29.35N	34.98E	5	3.0L			
JSO	**VII**	**01 04 06 56.1**	**29.32N**	**34.92E**	**5**	**2.4L**			¶97vii0029
JSO	**VII**	**01 18 01 21.2**	**28.38N**	**34.68E**	**2**	**3.0L**			¶97vii0122
ISC	**VII**	**01 23 32 26**±2.7	**29.13N**±.084	**34.8E**±.23	**12**±15			**9**	**0-1**
JSO	VII	01 23 32 27.5	29.18N	34.85E	1	2.8L			¶97vii0155
ISC	**VII**	**02 22 37 00**±2.2	**29.12N**±.075	**34.8E**±.22	**5**			**8**	**1-1**
JSO	VII	02 22 37 02.3	29.18N	34.84E	5	2.7L			¶97vii0314
ISC	**VII**	**03 04 17 43**±3.9	**28.4N**±.25	**34.5E**±.15	**5**			**19**	**0-3**
RYD	VII	03 04 17 42.6	28.34N	34.16E	14	3.3D			¶97vii0354
IPRG	VII	03 04 17 42.7±.60	28.3N	34.2E	17	3.2L			
JSO	VII	03 04 17 46.2	28.38N	34.62E	5	3.3L			
ISC	**VII**	**03 15 10 03**±4.0	**28.9N**±.24	**34.7E**±.16	**5**			**10**	**1-2**
IPRG	VII	03 15 10 03.0±.87	28.8N	34.8E	5	2.6L			¶97vii0422
JSO	VII	03 15 10 05.8	28.88N	34.82E	3	2.3L			
ISC	**VII**	**03 19 29 20**±1.2	**29.14N**±.044	**34.7E**±.13	**6**±10			**16**	**0-2**
IPRG	VII	03 19 29 21.8±.54	29.2N	34.8E	5±2.0	2.5L			¶97vii0443
JSO	VII	03 19 29 23.2	29.17N	34.84E	1	2.5L			
JSO	**VII**	**03 20 54 43.4**	**29.40N**	**34.95E**	**5**	**2.5L**			¶97vii0451
ISC	**VII**	**04 03 13 09**±1.9	**29.21N**±.058	**34.6E**±.16	**4**±11			**13**	**0-2**
IPRG	VII	04 03 13 11.1±.66	29.3N	34.7E	1	2.2L			¶97vii0487
JSO	VII	04 03 13 12.6	29.28N	34.70E	2	3.0L			
ISC	**VII**	**06 03 31 11**±7.4	**29.0N**±.37	**34.7E**±.33	**5**			**8**	**1-1**
IPRG	VII	06 03 31 11.4±.86	28.9N	34.8E	5	2.8L			¶97vii0834
JSO	VII	06 03 31 13.0	28.92N	34.83E	6	3.2L			
ISC	**VII**	**06 19 04 44**±2.0	**28.77N**±.052	**34.8E**±.21	**8**			**9**	**0-1**
JSO	VII	06 19 04 45.9	28.83N	34.74E	8	2.8L			¶97vii0921
ISC	**VII**	**06 21 15 59**±1.2	**28.77N**±.052	**34.8E**±.12	**1**±9.4			**15**	**0-2**
RYD	VII	06 21 15 58.6	28.73N	34.77E	18	3.4D			¶97vii0939
IPRG	VII	06 21 15 59.8±.96	28.8N	34.9E	5	2.1L			
JSO	VII	06 21 16 01.3	28.82N	34.84E	1	2.9L			
JSO	**VII**	**07 03 23 59.4**	**29.18N**	**34.88E**	**5**	**2.8L**			¶97vii0983
ISC	**VII**	**07 05 15 14**±4.0	**28.8N**±.12	**34.6E**±.30	**5**			**10**	**0-1**
RYD	VII	07 05 15 15.2	29.36N	34.76E	24	4.2D			¶97vii0996
JSO	VII	07 05 15 17.2	28.93N	34.58E	5	3.4L			
ISC	**VII**	**07 06 49 14**±3.6	**28.78N**±.074	**34.7E**±.32	**1**±16			**9**	**0-1**
RYD	VII	07 06 49 15.1	28.75N	34.75E	8	3.1D			¶97vii1003
JSO	VII	07 06 49 16.4	28.79N	34.77E	1	3.1L			
ISC	**VII**	**09 09 03 58.8**±.69	**29.53N**±.041	**34.9E**±.15	**5**±7.9			**12**	**0-2**
IPRG	VII	09 09 03 58.3±.70	29.5N	34.9E	0±3.7	2.3L			¶97vii1306
ISC	**VII**	**11 09 58 51**±3.9	**29.2N**±.11	**34.7E**±.29	**9**±14			**8**	**0-1**
JSO	VII	11 09 58 52.9	29.24N	34.79E	1	2.8L			¶97vii1662
RYD	**VII**	**11 20 27 48.8**	**28.59N**	**34.58E**	**13**	**3.3D**			¶97vii1725
JSO	**VII**	**14 22 24 58.6**	**28.64N**	**34.60E**	**5**	**3.2L**			¶97vii2214
ISC	**VII**	**15 06 22 33**±3.7	**29.2N**±.11	**34.7E**±.28	**13**±12			**9**	**0-1**
RYD	VII	15 06 22 32.9	29.18N	34.74E	15	3.1D			¶97vii2263
JSO	VII	15 06 22 34.8	29.22N	34.82E	1	2.9L			
ISC	**VII**	**18 17 08 44.6**±.86	**29.25N**±.045	**34.72E**±.079	**5**			**21**	**0-2**
IPRG	VII	18 17 08 45.1±.54	29.2N	34.9E	5±5.0	3.0L			¶97vii2768
JSO	VII	18 17 08 46.3	29.25N	34.81E	2	3.0L			
RYD	VII	18 17 09 45.1	29.24N	34.75E	12	3.7D			
ISC	**VII**	**18 21 54 34**±1.5	**29.26N**±.057	**34.7E**±.14	**5**±11			**14**	**0-2**
IPRG	VII	18 21 54 35.2±1.26	29.3N	34.9E	10±3.4	2.2L			¶97vii2795
ISC	**VII**	**21 13 31 58**±3.0	**28.6N**±.10	**34.8E**±.32	**9**±17			**8**	**0-1**
JSO	VII	21 13 31 59.2	28.64N	34.82E	10	3.2L			¶97vii3249
ISC	**VII**	**21 19 05 11**±1.3	**28.18N**±.082	**34.5E**±.10	**1**			**25**	**0-4**
RYD	VII	21 19 05 13.4	28.4N	34.5E	1	4.2D			¶97vii3279
IPRG	VII	21 19 05 14.6±.58	28.3N	34.2E	6	4.2L,4.3b			
JSO	VII	21 19 05 16.5	28.46N	34.67E	2	3.9L			
ISC	**VII**	**21 20 55 16**±3.9	**28.0N**±.27	**34.4E**±.13	**1**			**17**	**1-3**
RYD	VII	21 20 55 18.6	28.4N	34.4E	1	3.8D			¶97vii3288
IPRG	VII	21 20 55 20.4±.87	28.1N	34.1E	23	3.8L,4.1b			
JSO	VII	21 20 55 24.2	28.37N	34.78E	1	3.3L			
ISC	**VII**	**24 23 28 58**±1.1	**29.23N**±.060	**34.67E**±.094	**5**			**16**	**0-2**
IPRG	VII	24 23 28 59.8±1.20	29.3N	34.8E	5±2.7	2.6L			¶97vii3736
JSO	VII	24 23 29 00.3	29.25N	34.78E	5	3.2L			
ISC	**VII**	**26 07 36 05**±1.8	**28.78N**±.075	**34.7E**±.21	**15**±25			**9**	**0-2**
RYD	VII	26 07 36 04.7	28.78N	34.75E	16	3.0D			¶97vii3935
IPRG	VII	26 07 36 05.2±.82	28.9N	34.6E	5	2.0L			
RYD	**VII**	**27 23 13 38.6**	**28.82N**	**34.71E**	**24**	**3.2D**			¶97vii4176
ISC	**VII**	**28 14 01 38**±2.4	**29.27N**±.073	**34.6E**±.19	**8**			**9**	**0-1**
JSO	VII	28 14 01 43.2	29.41N	34.86E	8	2.1L			¶97vii4285
ISC	**VII**	**31 01 31 51.3**±.94	**29.27N**±.044	**34.8E**±.13	**14**±7.6			**14**	**0-2**
IPRG	VII	31 01 31 51.8±.50	29.3N	34.8E	11±1.4	2.1L			¶97vii4659
RYD	VII	31 01 31 52.6	29.25N	34.77E	7	3.2D			
RYD	**VIII**	**01 21 47 54.9**	**26.88N**	**28.99E**	**40**	**3.5D**			¶97viii0119
ISC	**VIII**	**02 18 56 32**±1.1	**28.87N**±.054	**34.8E**±.18	**5**±17			**9**	**0-1**
IPRG	VIII	02 18 56 32.2±.51	28.9N	34.7E	0	2.1L			¶97viii0249
ISC	**VIII**	**03 14 56 46**±1.2	**29.25N**±.049	**34.7E**±.11	**10**			**15**	**0-2**
RYD	VIII	03 14 56 45.9	29.27N	34.66E	10	3.0D			¶97viii0375
IPRG	VIII	03 14 56 47.4±.56	29.4N	34.7E	0	2.2L			
JSO	VIII	03 14 56 49.3	29.26N	34.84E	5	2.7L			
ISC	**VIII**	**06 12 12 26**±3.6	**28.82N**±.094	**34.7E**±.36	**12**			**4**	**0-1**
RYD	VIII	06 12 12 27.0	28.83N	34.75E	12	3.0D			¶97viii0797
ISC	Poorly determined								
IPRG	**VIII**	**06 23 22 25.4**	**29.3N**	**34.5E**	**0**				¶97viii0852
ISC	**VIII**	**08 02 36 44**±12	**29.5N**±.44	**34.3E**±.58	**3**±36			**10**	**1-2**
IPRG	VIII	08 02 36 43.9±.34	29.4N	34.3E	0±5.6	2.1L			¶97viii1044
ISC	**VIII**	**09 11 07 28**±1.2	**28.85N**±.056	**34.8E**±.10	**2**±8.7			**16**	**0-2**
RYD	VIII	09 11 07 26.2	28.90N	34.36E	12	3.2D			¶97viii1239
JSO	VIII	09 11 07 30.2	29.14N	34.63E	5	2.7L			
IPRG	VIII	09 11 07 30.8±.67	29.0N	34.7E	0	2.2L			
RYD	**VIII**	**14 20 29 28.0**	**28.83N**	**34.67E**	**10**	**3.2D**			¶97viii2108
RYD	**VIII**	**14 21 09 37.9**	**28.75N**	**34.68E**	**19**	**3.2D**			¶97viii2112
RYD	**VIII**	**15 02 02 29.0**	**28.18N**	**34.09E**	**12**	**3.0D**			¶97viii2144
IPRG	**VIII**	**18 20 41 18.1**±.64	**27.7N**	**33.7E**	**10**	**3.3L**			¶97viii2710
RYD	VIII	18 20 41 16.8	27.85N	33.52E	15	3.3D			
JSO	**VIII**	**20 18 58 23.2**	**29.00N**	**34.88E**	**4**	**2.8L**			¶97viii3001
ISC	**VIII**	**20 20 36 43**±10	**29.3N**±.44	**34.8E**±.59	**20**			**6**	**1-1**
JSO	VIII	20 20 36 47.3	29.52N	34.99E	20	2.1L			¶97viii3010
ISC	**VIII**	**20 20 37 20**±8.4	**29.3N**±.32	**34.8E**±.49	**10**			**5**	**1-1**
JSO	VIII	20 20 37 24.9	29.52N	34.97E	10	1.9L			¶97viii3011
ISC	**VIII**	**21 16 32 46**±2.8	**28.9N**±.17	**35.0E**±.29	**6**±29			**7**	**0-1**
JSO	VIII	21 16 32 46.7	29.03N	34.83E	5	2.6L			¶97viii3122
JSO	**VIII**	**22 23 45 45.4**	**28.53N**	**34.75E**	**2**	**3.1L**			¶97viii3308
JSO	**VIII**	**25 08 42 47.1**	**28.98N**	**34.81E**	**11**	**2.6L**			¶97viii3676
ISC	**VIII**	**25 23 37 29**±11	**29.2N**±.50	**34.8E**±.53	**2**			**5**	**1-1**
JSO	VIII	25 23 37 32.5	29.35N	34.95E	2	2.5L			¶97viii3752
ISC	**VIII**	**26 10 16 38**±1.3	**29.22N**±.050	**34.7E**±.12	**0**±11			**14**	**0-2**
RYD	VIII	26 10 16 38.6	29.26N	34.67E	10	3.0D			¶97viii3834
IPRG	VIII	26 10 16 39.7±.45	29.3N	34.7E	3±4.6	2.3L			
RYD	**IX**	**01 09 00 41.7**	**28.8N**	**34.76E**	**12**	**3.7D**			¶97ix0078
ISC	**IX**	**01 09 30 22.1**±.91	**28.81N**±.046	**34.8E**±.11	**11**±6.5			**18**	**0-2**
IPRG	IX	01 09 30 22.2±.73	28.8N	34.7E	10	3.6L			¶97ix0086
JSO	IX	01 09 30 22.6	28.86N	34.83E	1	3.5L			
ISC	**IX**	**02 05 25 39**±1.3	**29.16N**±.048	**34.6E**±.13	**0**			**9**	**0-2**
IPRG	IX	02 05 25 41.6±.59	29.3N	34.7E	0	2.0L			¶97ix0224
ISC	**IX**	**02 15 00 47**±2.4	**28.49N**±.096	**34.6E**±.20	**6**±11			**11**	**0-3**
IPRG	IX	02 15 00 47.9±.58	28.5N	34.9E	2	3.6L			¶97ix0290
RYD	IX	02 15 00 47.9	28.49N	34.65E	13	3.7D			
JSO	**IX**	**02 20 34 28.1**	**29.19N**	**34.89E**	**5**	**2.6L**			¶97ix0327
RYD	**IX**	**05 07 50 35.0**	**27.47N**	**33.3E**	**35**	**3.0D**			¶97ix0714
JSO	**IX**	**06 00 57 08.4**	**28.95N**	**34.71E**	**2**	**2.9L**			¶97ix0828
ISC	**IX**	**07 21 38 22**±3.0	**29.1N**±.18	**34.9E**±.12	**5**			**12**	**1-2**
JSO	IX	07 21 38 22.1	29.07N	34.84E	5	3.0L			¶97ix1127
IPRG	IX	07 21 38 22.5±.68	29.1N	34.8E	5±2.7	2.3L			
ISC	**IX**	**08 07 09 59**±9.8	**29.3N**±.30	**32.9E**±.77	**25**			**16**	**2-3**
IPRG	IX	08 07 10 04.7±.33	29.4N	33.1E	25	3.1L			¶97ix1187
RYD	IX	08 07 10 44.7	28.7N	33.3E	20	3.2D			

JSO	**IX**	**08 20 39 18.2**	**28.86N**	**34.71E**	**2**	**3.1**L		¶97ix1276
IPRG	**IX**	**10 02 23 42.5**±.56	**28.0N**	**32.6E**	**25**	**2.7**L		¶97ix1465
JSO	**IX**	**11 02 49 38.9**	**29.23N**	**34.94E**	**9**	**2.3**L		¶97ix1622
ISC	**IX**	**12 11 48 17**±1.9	**29.98N**±.054	**34.3E**±.16	**9**±9.9		**18**	**0-2**
RYD	IX	12 11 48 17.9	30.0N	34.3E	12	3.0D		¶97ix1808
IPRG	IX	12 11 48 18.5±.15	30.0N	34.3E	9±1.3	3.1L		
JSO	**IX**	**20 00 18 12.1**	**28.72N**	**34.81E**	**17**	**3.0**L		¶97ix2873
RYD	**IX**	**21 15 00 55.6**	**29.86N**	**32.86E**	**34**	**3.3**D		¶97ix3116
ISC	**IX**	**21 17 49 57**±3.4	**28.9N**±.19	**34.8E**±.21	**15**		**8**	**0-2**
RYD	IX	21 17 49 55.6	28.29N	34.75E	15	3.4D		¶97ix3141
IPRG	IX	21 17 49 56.3±.61	28.9N	34.6E	3	2.8L		
ISC	**IX**	**22 04 11 55.7**±.61	**29.45N**±.043	**34.99E**±.072	**20**±6.5		**25**	**0-4**
RYD	IX	22 04 11 44.6	29.49N	34.99E	26	3.6D		¶97ix3207
JSO	IX	22 04 11 56.4	29.47N	35.01E	9	3.4L		
IPRG	IX	22 04 11 57.1±.31	29.6N	34.8E	12±2.0	3.4L		
IPRG	**IX**	**24 21 31 19.7**±.47	**29.2N**	**32.7E**	**5**	**3.3**L		¶97ix3637
RYD	IX	24 21 31 15.5	29.52N	32.2E	35	3.2D		
JSO	**IX**	**25 06 23 16.4**	**28.98N**	**34.83E**	**7**	**2.8**L		¶97ix3693
ISC	**IX**	**25 16 37 57**±2.5	**29.2N**±.14	**34.8E**±.11	**2**		**18**	**0-2**
JSO	IX	25 16 37 59.1	29.20N	34.82E	2	3.2L		¶97ix3763
IPRG	IX	25 16 38 00.4±.38	29.3N	34.8E	5±5.7	3.5L		
ISC	**IX**	**29 01 44 50**±1.5	**28.82N**±.053	**34.7E**±.15	**10**±8.6		**14**	**0-2**
RYD	IX	29 01 44 50.5	28.8N	34.8E	14	3.1D		¶97ix4825
IPRG	IX	29 01 44 51.1±.65	29.0N	34.5E	0	2.1L		
JSO	IX	29 01 44 51.7	28.88N	34.82E	5	2.8L		
ISC	**IX**	**29 07 00 55**±4.2	**28.7N**±.10	**34.6E**±.35	**14**±11		**9**	**0-1**
JSO	IX	29 07 00 57.1	28.84N	34.76E	1	3.1L		¶97ix4893
ISC	**IX**	**29 07 42 02.4**±.61	**29.08N**±.034	**34.90E**±.079	**6**		**21**	**0-2**
RYD	IX	29 07 42 02.1	29.1N	34.8E	6	3.7D		¶97ix4899
IPRG	IX	29 07 42 03.2±.67	29.2N	34.9E	0	3.5L		
JSO	IX	29 07 42 03.4	29.12N	34.92E	1	3.4L		
JSO	**X**	**01 13 22 20.7**	**29.41N**	**34.96E**	**7**	**2.5**L		¶97x0092
JSO	**X**	**01 19 27 36.6**	**29.43N**	**34.89E**	**4**	**2.4**L		¶97x0144
JSO	**X**	**03 04 46 38.4**	**29.34N**	**34.94E**	**5**	**2.3**L		¶97x0391
IPRG	**X**	**03 14 46 40.7**±1.07	**28.0N**	**33.5E**	**2**	2.0L		¶97x0477
IPRG	**X**	**04 06 09 35.7**	**28.7N**	**35.0E**	**10**			¶97x0592
ISC	**X**	**04 14 06 33**±2.2	**29.3N**±.13	**34.8E**±.10	**5**		**17**	**0-2**
IPRG	X	04 14 06 33.8±.40	29.3N	34.8E	5±4.2	2.2L		¶97x0658
JSO	X	04 14 06 33.9	29.31N	34.84E	1	3.0L		
JSO	**X**	**04 23 03 01.6**	**29.08N**	**34.78E**	**5**	**2.6**L		¶97x0754
JSO	**X**	**05 22 04 04.9**	**29.09N**	**34.81E**	**8**	**2.7**L		¶97x0943
ISC	**X**	**06 07 22 36.2**±.81	**29.24N**±.040	**34.73E**±.079	**1**		**19**	**0-2**
JSO	X	06 07 22 37.2	29.24N	34.77E	1	3.2L		¶97x1014
RYD	X	06 07 22 37.7	29.2N	34.76E	15	3.2D		
IPRG	X	06 07 22 38.0±.62	29.3N	34.8E	5	3.1L		
ISC	**X**	**07 03 03 48**±2.2	**28.87N**±.059	**34.7E**±.22	**15**		**10**	**0-1**
RYD	X	07 03 03 48.2	28.86N	34.67E	15	3.0D		¶97x1164
JSO	X	07 03 03 49.8	28.93N	34.79E	7	3.1L		
ISC	**X**	**07 03 19 12**±2.9	**28.67N**±.093	**34.7E**±.25	**16**±11		**10**	**0-1**
RYD	X	07 03 19 12.3	28.65N	34.69E	12	3.0D		¶97x1167
JSO	X	07 03 19 12.6	28.74N	34.71E	2	3.3L		
ISC	**X**	**10 21 04 54.4**±.87	**28.83N**±.053	**34.8E**±.10	**23**±8.3		**31**	**0-3**
IPRG	X	10 21 04 50.7±.38	28.6N	34.9E	5	4.2L,4.3b		¶97x1801
RYD	X	10 21 04 54.0	28.80N	34.66E	18	4.2D		
JSO	X	10 21 04 55.5	28.93N	34.77E	13	3.7L		
JSO	**X**	**14 16 15 32.3**	**29.23N**	**34.89E**	**16**	**2.6**L		¶97x2441
JSO	**X**	**15 00 00 08.8**	**28.79N**	**34.89E**	**3**	**2.8**L		¶97x2516
IPRG	**X**	**15 08 53 19.2**±.55	**28.9N**	**33.3E**	**10**	**2.1**L		¶97x2591
JSO	**X**	**15 22 22 05.5**	**29.19N**	**34.84E**	**2**	**2.6**L		¶97x2734
JSO	**X**	**15 23 53 06.4**	**29.21N**	**34.83E**	**5**	**2.9**L		¶97x2749
JSO	**X**	**16 01 45 29.1**	**29.34N**	**34.98E**	**5**	**2.5**L		¶97x2764
JSO	**X**	**16 05 40 18.4**	**29.23N**	**34.87E**	**14**	**2.9**L		¶97x2796
ISC	**X**	**17 16 43 42**±1.3	**29.22N**±.054	**34.8E**±.23	**10**		**8**	**0-2**
IPRG	X	17 16 43 43.1±.57	29.3N	34.8E	10±7.1	2.4L		¶97x3020
ISC	**X**	**23 16 28 50.7**±.84	**29.29N**±.047	**34.84E**±.083	**3**		**22**	**0-2**
JSO	X	23 16 28 51.5	29.29N	34.84E	3	2.7L		¶97x4026
IPRG	X	23 16 28 51.7±.52	29.4N	34.8E	0	2.0L		
ISC	**X**	**27 16 54 38**±1.5	**28.91N**±.067	**34.7E**±.20	**8**±13		**7**	**0-1**
IPRG	X	27 16 54 37.7±.81	28.8N	34.8E	10	2.0L		¶97x4634
ISC	**X**	**28 15 44 06**±13	**29.2N**±.57	**35.0E**±.54	**4**		**6**	**1-1**
JSO	X	28 15 44 06.2	29.17N	34.89E	4	2.7L		¶97x4782
ISC	**X**	**30 14 43 25**±1.5	**28.91N**±.067	**34.7E**±.19	**0**		**6**	**0-1**
IPRG	X	30 14 43 27.3±.78	29.0N	34.7E	0	2.4L		¶97x5055
JSO	**X**	**31 14 56 26.3**	**29.06N**	**34.72E**	**5**	**2.7**L		¶97x5194
JSO	**X**	**31 15 44 07.1**	**29.40N**	**34.96E**	**5**	**2.2**L		¶97x5198
JSO	**X**	**31 16 08 51.0**	**29.41N**	**34.98E**	**2**	**2.4**L		¶97x5202
ISC	**X**	**31 16 24 58.5**±.90	**28.84N**±.048	**34.82E**±.094	**8**±7.8		**26**	**0-3**
IPRG	X	31 16 24 57.7±.37	28.8N	34.8E	4	3.6L,4.0b		¶97x5204
JSO	X	31 16 24 58.4	28.83N	34.78E	3	3.7L		
ISC	**X**	**31 17 21 55**±18	**29.3N**±.66	**35.0E**±.85	**1**		**5**	**0-1**
JSO	X	31 17 21 56.3	29.36N	34.96E	1	2.2L		¶97x5210
ISC	**X**	**31 19 06 57**±10	**29.4N**±.39	**35.0E**±.51	**1**		**5**	**0-1**
JSO	X	31 19 06 57.1	29.42N	34.96E	1	2.3L		¶97x5215
ISC	**X**	**31 20 24 06**±2.2	**29.37N**±.075	**34.9E**±.15	**4**±18		**9**	**0-1**
JSO	X	31 20 24 08.2	29.39N	34.97E	8	2.6L		¶97x5228
ISC	**X**	**31 20 57 43**±9.3	**29.4N**±.35	**35.0E**±.48	**1**		**5**	**0-1**
JSO	X	31 20 57 42.7	29.41N	34.93E	1	2.1L		¶97x5229
ISC	**X**	**31 22 23 16**±7.4	**29.4N**±.29	**34.9E**±.38	**6**		**7**	**0-1**
JSO	X	31 22 23 16.6	29.40N	34.94E	6	2.4L		¶97x5232
ISC	**XI**	**01 18 02 42**±2.6	**28.6N**±.16	**34.6E**±.27	**33**		**11**	**0-2**
IPRG	XI	01 18 02 45.2±.73	29.0N	34.6E	0	2.3L		¶97xi0116
ISC	**XI**	**04 12 48 06**±1.0	**29.31N**±.047	**34.8E**±.17	**10**		**8**	**0-1**
IPRG	XI	04 12 48 07.4±1.56	29.4N	34.9E	10±6.5	2.3L		¶97xi0636
ISC	**XI**	**06 22 08 28**±1.7	**28.85N**±.066	**34.7E**±.20	**7**±12		**8**	**0-2**
IPRG	XI	06 22 08 27.7±.46	28.9N	34.6E	3±2.6	2.0L		¶97xi1041
ISC	**XI**	**07 18 31 34.4**±.91	**29.80N**±.048	**34.9E**±.13	**5**		**11**	**0-2**
IPRG	XI	07 18 31 34.4±.16	29.8N	35.0E	5±3.0	2.3L		¶97xi1155
ISC	**XI**	**07 23 14 40.1**±.63	**29.80N**±.037	**34.9E**±.16	**9**±9.0		**14**	**0-1**
IPRG	XI	07 23 14 39.8±.57	29.8N	34.8E	0±3.8	2.3L		¶97xi1181
ISC	**XI**	**09 02 22 38.9**±.66	**29.80N**±.039	**34.9E**±.13	**7**±8.7		**11**	**0-1**
IPRG	XI	09 02 22 38.9±.14	29.8N	34.9E	7±2.1	2.0L		¶97xi1385
ISC	**XI**	**09 16 07 45**±2.2	**29.77N**±.089	**34.9E**±.27	**9**±26		**5**	**0-1**
IPRG	XI	09 16 07 45.4±.71	29.8N	34.9E	7±8.4	2.1L		¶97xi1470
ISC	Poorly determined							
IPRG	**XI**	**09 18 56 32.4**±.97	**28.7N**	**34.6E**	**0**	**2.1**L		¶97xi1493
ISC	**XI**	**09 22 10 40.8**±.92	**29.80N**±.047	**35.0E**±.16	**4**±17		**10**	**0-2**
IPRG	XI	09 22 10 40.9±.13	29.8N	35.0E	5±2.5	2.1L		¶97xi1518
ISC	**XI**	**10 23 01 48**±1.7	**28.84N**±.071	**34.7E**±.19	**5**±12		**9**	**0-2**
IPRG	XI	10 23 01 48.4±.90	28.9N	34.6E	5	2.7L		¶97xi1688
RYD	XI	10 23 01 50.2	28.7N	34.89E	21	3.2D		
IPRG	**XI**	**11 05 33 07.5**±.69	**30.5N**	**32.2E**	**25**	**2.5**L		¶97xi1742
ISC	**XI**	**15 08 45 22**±1.4	**28.28N**±.086	**34.6E**±.11	**10**		**16**	**0-3**
RYD	XI	15 08 45 03.7	28.3N	34.69E	10	3.3D		¶97xi2448
IPRG	XI	15 08 45 22.4±.63	28.3N	34.5E	5	3.3L		
JSO	**XI**	**16 05 15 00.7**	**28.88N**	**34.80E**	**3**	**2.8**L		¶97xi2600
IPRG	**XI**	**17 06 19 14.7**±1.22	**27.9N**	**33.5E**	**25**	2.0L		¶97xi2749
JSO	**XI**	**17 19 53 18.9**	**29.34N**	**34.92E**	**5**	**2.3**L		¶97xi2853
ISC	**XI**	**21 10 01 30**±14	**29.3N**±.38	**34.8E**±.87	**1**		**5**	**1-1**
JSO	XI	21 10 01 33.2	29.39N	34.87E	1	2.5L		¶97xi3634
ISC	**XI**	**23 15 37 58**±1.7	**29.13N**±.072	**34.9E**±.17	**1**		**8**	**1-1**
JSO	XI	23 15 37 59.5	29.16N	34.91E	1	2.7L		¶97xi4143
ISC	**XI**	**23 22 43 49**±2.1	**28.92N**±.064	**34.8E**±.22	**5**		**8**	**0-1**
JSO	XI	23 22 43 50.8	28.94N	34.86E	5	3.0L		¶97xi4215
ISC	**XI**	**24 08 07 22**±3.1	**29.03N**±.088	**34.7E**±.29	**5**		**7**	**1-1**
JSO	XI	24 08 07 24.2	29.02N	34.84E	5	2.7L		¶97xi4283
ISC	**XI**	**24 22 46 45**±1.7	**29.27N**±.090	**35.0E**±.20	**5**		**8**	**1-1**
JSO	XI	24 22 46 43.2	29.19N	34.85E	5	3.0L		¶97xi4399
ISC	**XI**	**25 02 26 51**±12	**29.0N**±.52	**34.6E**±.57	**3**		**7**	**1-1**
JSO	XI	25 02 26 57.2	29.19N	34.89E	3	2.4L		¶97xi4430
ISC	**XI**	**26 14 19 01**±2.6	**28.98N**±.083	**34.8E**±.25	**5**		**7**	**0-1**
JSO	XI	26 14 19 02.7	29.02N	34.85E	5	2.6L		¶97xi4699
JSO	**XI**	**29 14 29 28.5**	**29.43N**	**34.95E**	**9**	**1.9**L		¶97xi5280
JSO	**XII**	**01 09 31 16.6**	**29.35N**	**34.89E**	**6**	**2.4**L		¶97xii0061
JSO	**XII**	**01 12 35 21.4**	**28.98N**	**34.76E**	**8**	**2.9**L		¶97xii0084
ISC	**XII**	**04 01 24 36**±1.3	**29.30N**±.058	**34.9E**±.13	**5**		**9**	**0-1**
JSO	XII	04 01 24 37.1	29.33N	34.93E	5	2.7L		¶97xii0529
ISC	**XII**	**04 04 58 03**±2.6	**28.3N**±.10	**34.6E**±.21	**24**±14		**13**	**0-3**
IPRG	XII	04 04 57 57.9±1.13	28.0N	34.8E	6	3.3L		¶97xii0559
JSO	XII	04 04 58 03.5	28.44N	34.51E	1	3.6L		
RYD	XII	04 04 58 03.8	28.27N	34.6E	14	3.6D		
ISC	**XII**	**04 15 21 29**±5.1	**28.5N**±.17	**34.7E**±.34	**1**		**7**	**0-2**
JSO	XII	04 15 21 29.3	28.43N	34.73E	1	3.1L		¶97xii0637
ISC	**XII**	**05 01 00 48.8**±.94	**29.09N**±.043	**34.83E**±.093	**2**±11		**14**	**0-2**
IPRG	XII	05 01 00 48.9±1.15	29.1N	35.1E	4±4.5	2.1L		¶97xii0748
JSO	XII	05 01 00 51.1	29.13N	34.90E	1	2.5L		
JSO	**XII**	**05 02 04 37.5**	**29.39N**	**34.91E**	**5**	**2.5**L		¶97xii0761
JSO	**XII**	**09 01 50 17.3**	**28.58N**	**34.74E**	**5**	**3.0**L		¶97xii2071
JSO	**XII**	**09 01 51 22.2**	**28.53N**	**34.73E**	**5**	**2.9**L		¶97xii2072
ISC	**XII**	**09 05 21 48**±1.8	**28.84N**±.064	**34.8E**±.19	**21**		**8**	**0-1**
RYD	XII	09 05 21 49.5	28.72N	34.9E	21	3.6D		¶97xii2108
JSO	XII	09 05 21 50.1	28.97N	34.84E	5	3.3L		
ISC	**XII**	**09 08 36 41**±1.1	**28.87N**±.053	**34.8E**±.13	**10**±11		**13**	**0-1**
IPRG	XII	09 08 36 39.9±.70	28.8N	35.1E	3±4.9	3.1L		¶97xii2134
RYD	XII	09 08 36 43	28.8N	34.9E	10	3.1D		
JSO	XII	09 08 36 43.2	28.94N	34.86E	5	3.0L		
ISC	**XII**	**09 16 13 09**±1.0	**28.75N**±.061	**34.8E**±.11	**9**±8.8		**23**	**0-5**
IPRG	XII	09 16 13 06.5±.62	28.6N	34.8E	0	4.3L,4.4b		¶97xii2200
JSO	XII	09 16 13 10.5	28.80N	34.81E	2	4.1L		
ISC	**XII**	**09 17 14 53**±1.9	**28.77N**±.054	**34.8E**±.19	**0**		**9**	**0-1**
JSO	XII	09 17 14 54.8	28.83N	34.80E	0	2.8L		¶97xii2207
ISC	**XII**	**10 21 32 32**±1.4	**28.86N**±.060	**34.7E**±.19	**1**		**7**	**0-1**
IPRG	XII	10 21 32 30.6±.83	28.8N	35.1E	1	2.2L		¶97xii2430
ISC	**XII**	**11 01 29 31**±6.9	**28.5N**±.47	**34.7E**±.18	**1**		**20**	**1-5**
IPRG	XII	11 01 29 22.1±.54	27.8N	34.9E	1	4.5L,4.5b		¶97xii2464
JSO	XII	11 01 29 30.5	28.44N	34.54E	1	4.2L		
RYD	**XII**	**11 07 06 21.2**	**28.5N**	**34.7E**	**8**	**3.0**D		¶97xii2511
JSO	XII	11 07 06 55.1	28.38N	34.67E	6	3.2L		
JSO	**XII**	**11 12 24 31.2**	**29.10N**	**34.85E**	**5**	**2.6**L		¶97xii2559
ISC	**XII**	**11 16 17 37.3**±.97	**29.33N**±.046	**34.8E**±.15	**1**±11		**10**	**0-2**
IPRG	XII	11 16 17 38.1±.86	29.4N	35.0E	5±4.0	2.5L		¶97xii2600
ISC	**XII**	**14 18 50 33**±2.7	**29.3N**±.11	**34.9E**±.23	**2**		**7**	**1-1**
JSO	XII	14 18 50 34.9	29.36N	34.89E	2	2.5L		¶97xii3180
ISC	**XII**	**15 03 44 55**±9.5	**29.3N**±.37	**34.9E**±.53	**8**		**6**	**0-1**
JSO	XII	15 03 44 56.2	29.38N	34.97E	8	2.7L		¶97xii3238
ISC	**XII**	**15 22 09 27**±5.3	**28.4N**±.36	**34.6E**±.28	**10**		**14**	**0-3**
IPRG	XII	15 22 09 16.7±.50	27.7N	35.2E	6	3.5L		¶97xii3349
RYD	XII	15 22 09 26	28.4N	34.5E	10	3.5D		
ISC	**XII**	**17 20 49 58**±13	**29.3N**±.49	**34.9E**±.57	**0**		**6**	**0-1**
JSO	XII	17 20 49 59.5	29.34N	34.94E	0	2.4L		¶97xii3661
JSO	**XII**	**19 11 39 41.8**	**29.41N**	**34.95E**	**5**	**2.1**L		¶97xii3942
ISC	**XII**	**19 13 28 31.8**±.94	**29.35N**±.042	**34.86E**±.087	**5**±8.4		**17**	**0-2**
IPRG	XII	19 13 28 33.0±.48	29.4N	34.8E	4	2.3L		¶97xii3970
JSO	XII	19 13 28 33.9	29.42N	34.96E	1	2.7L		
ISC	**XII**	**19 14 07 46**±9.4	**29.4N**±.37	**35.0E**±.47	**6**		**5**	**0-1**
JSO	XII	19 14 07 46.6	29.40N	34.95E	6	2.1L		¶97xii3976
JSO	**XII**	**19 14 08 22.2**	**29.41N**	**34.94E**	**5**	**1.9**L		¶97xii3977
ISC	**XII**	**19 15 22 24**±2.8	**29.3N**±.16	**34.9E**±.13	**5**		**12**	**0-2**
JSO	XII	19 15 22 25.5	29.36N	34.92E	5	2.5L		¶97xii3987
IPRG	XII	19 15 22 26.0±.38	29.4N	34.9E	4±6.5	2.0L		
IPRG	**XII**	**20 04 44 12.0**±.82	**28.9N**	**33.1E**	**25**	**2.2**L		¶97xii4081
RYD	**XII**	**21 07 09 25.9**	**29.28N**	**33.46E**	**35**	**3.0**D		¶97xii4228
ISC	**XII**	**21 21 46 47**±1.6	**29.32N**±.069	**34.9E**±.16	**16**±34		**10**	**0-1**
JSO	XII	21 21 46 48.4	29.34N	34.92E	5	2.6L		¶97xii4309
JSO	**XII**	**21 22 37 38.5**	**29.35N**	**34.89E**	**7**	**2.7**L		¶97xii4313
JSO	**XII**	**21 22 42 03.8**	**29.31N**	**34.87E**	**8**	**2.4**L		¶97xii4315
JSO	**XII**	**21 22 46 27.0**	**29.36N**	**34.83E**	**5**	**2.4**L		¶97xii4316
JSO	**XII**	**21 23 12 01.6**	**29.34N**	**34.92E**	**6**	**2.4**L		¶97xii4318
ISC	**XII**	**23 13 49 58**±1.6	**28.79N**±.061	**34.7E**±.15	**6**±10		**12**	**0-2**
IPRG	XII	23 13 49 58.3±.60	28.8N	34.8E	5	2.1L		¶97xii4610
RYD	XII	23 13 49 58.7	28.8N	34.8E	5	3.1D		
JSO	XII	23 13 50 01.0	28.93N	34.75E	5	3.0L		
ISC	**XII**	**23 19 25 58**±19	**29.2N**±.79	**34.8E**±.97	**17**		**6**	**1-1**
JSO	XII	23 19 25 59.9	29.26N	34.88E	17	2.6L		¶97xii4650
ISC	**XII**	**25 11 45 19**±2.3	**28.5N**±.12	**34.8E**±.20	**12**±8.6		**10**	**0-2**
RYD	XII	25 11 45 17.5	28.43N	34.7E	15	3.6D		¶97xii4920
JSO	XII	25 11 45 18.2	28.56N	34.53E	2	3.1L		
ISC	**XII**	**26 04 23 10**±10	**29.3N**±.39	**35.0E**±.47	**1**		**6**	**0-1**
JSO	XII	26 04 23 09.5	29.35N	34.93E	1	2.4L		¶97xii5043
ISC	**XII**	**29 14 50 30**±4.6	**28.4N**±.26	**34.6E**±.21	**15**±16		**23**	**0-3**
RYD	XII	29 14 50 23.4	28.37N	34.52E	16	3.4D		¶97xii5597
IPRG	XII	29 14 50 25.6±.42	28.1N	34.8E	6	4.0L,4.2b		
JSO	XII	29 14 50 30.7	28.47N	34.62E	1	3.6L		
RYD	**XII**	**29 14 51 41.1**	**28.29N**	**34.48E**	**15**	**3.3**D		¶97xii5598

(554) Red Sea.

ISC	**VII**	**07 10 32 31**±4.6	**27.6N**±.14	**34.4E**±.50	**15**		**6**	**1-2**
RYD	VII	07 10 32 22.8	27.35N	33.31E	15	3.5D		¶97vii1026
ISC	**VII**	**13 16 13 08.2**±.61	**15.25N**±.097	**42.00E**±.091	**10**	**4.0b**	**25**	**2-69**
NEIC	VII	13 16 13 08.5	15.29N	41.93E	10	4.2b		¶97vii1993
DHMR	VII	13 16 13 13.9	13.3N	42.8E	0	4.2L		
EIDC	VII	13 16 13 17.5	15.4N	41.7E	62	3.6b		

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC		Less reliable solution.						
RYD	**VII**	**23 07 04 04.5**	**27.79N**	**34.26E**		**3.0D**	**¶97vii3491**	
ISC	**VII**	**27 06 25 07**±5.0	**26.7N**±.33	**35.0E**±.52	**20**		**6**	**2-3**
RYD	VII	27 06 25 08.9	26.8N	35.2E	20	3.6D	**¶97vii4071**	
IPRG	**VII**	**31 12 46 19.4**±.47	**27.7N**	**34.3E**	**4**	2.3L	**¶97vii4731**	
ISC	**VIII**	**18 13 35 41**±14	**27.8N**±.92	**34.4E**±.47	**22**		**15**	**1-3**
IPRG	VIII	18 13 35 48.3±.59	28.2N	34.2E	22	3.0L	**¶97viii2684**	
RYD	**VIII**	**18 22 05 09.6**	**26.80N**	**34.85E**	**10**	**3.0D**	**¶97viii2719**	
ISC	**VIII**	**24 09 29 30**±7.1	**26.8N**±.40	**34.8E**±.71	**12**		**4**	**2-2**
RYD	VIII	24 09 29 31.3	26.76N	34.88E	12	3.0D	**¶97viii3512**	
ISC		Poorly determined						
RYD	**IX**	**27 10 48 51.0**	**27.2N**	**34.4E**	**35**	**3.0D**	**¶97ix4337**	
ISC	**XII**	**05 17 40 49**±6.3	**27.5N**±.43	**34.7E**±.23	**15**		**17**	**1-3**
RYD	XII	05 17 40 47.7	27.31N	34.5E	15	3.4D	**¶97xii0993**	
IPRG	XII	05 17 40 49.8±.79	27.7N	35.1E	0	3.2L		
ISC	**XII**	**26 09 14 35**±6.6	**15.7N**±.39	**41.8E**±.39	**20**		**11**	**2-5**
DHMR	XII	26 09 14 36.6	15.5N	42.0E	20	3.4L	**¶97xii5092**	
ARO	XII	26 09 14 45.3	15.0N	42.1E	5±100.0	3.6L		

(555) Western Arabian Peninsula.

ISC	**VII**	**01 03 21 52**±9.4	**29.4N**±.34	**35.1E**±.57	**9**		**6**	**0-1**
JSO	VII	01 03 21 51.3	29.38N	34.97E	9	2.6L	**¶97vii0021**	
JSO	**VII**	**01 23 26 08.5**	**29.41N**	**35.00E**	**5**	**2.6L**	**¶97vii0154**	
JSO	**VII**	**02 22 24 22.8**	**29.63N**	**35.01E**	**9**	**2.0L**	**¶97vii0308**	
JSO	**VII**	**03 09 44 06.5**	**29.69N**	**35.27E**	**2**	**2.2L**	**¶97vii0388**	
ISC	**VII**	**06 09 50 49**±11	**29.9N**±.72	**35.5E**±.19	**3**		**5**	**1-2**
RYD	VII	06 09 50 48.5	29.98N	35.52E	3	3.4D	**¶97vii0860**	
IPRG	**VII**	**07 13 04 51.3**±.76	**27.6N**	**35.1E**	**3**	**2.7L**	**¶97vii1045**	
ISC	**VII**	**11 20 38 25**±1.9	**15.3N**±.16	**42.0E**±.18	**26**	3.8b	**6**	**2-42**
DHMR	VII	11 20 38 23.5	15.0N	42.0E	26	3.6L	**¶97vii1728**	
DHMR	**VII**	**13 16 33 53.6**	**16.8N**	**44.6E**	**35**	**2.7L**	**¶97vii1996**	
DHMR	**VII**	**13 16 45 04.1**	**15.5N**	**42.6E**		**3.6L**	**¶97vii1998**	
ISC	**VII**	**13 18 50 43**±1.5	**15.15N**±.092	**42.0E**±.11	**47**±20	**3.9b**,3.6s	**29**	**2-54**
NEIC	VII	13 18 50 38.0	15.19N	41.99E	10	4.2b	**¶97vii2009**	
EIDC	VII	13 18 50 38.1	15.2N	41.9E	0	3.9b,3.6s		
DHMR	VII	13 18 50 44.1	14.9N	42.5E		3.6L		
NEIC		Less reliable solution.						
DHMR	**VII**	**13 21 38 05.5**	**15.4N**	**42.1E**	**30**	**3.0L**	**¶97vii2026**	
DHMR	**VII**	**13 23 16 46.2**	**15.3N**	**42.2E**	**28**	**2.9L**	**¶97vii2039**	
DHMR	**VII**	**14 02 14 00.7**	**15.2N**	**42.1E**	**28**	**3.5L**	**¶97vii2058**	
ISC	**VII**	**14 13 29 19.1**±.74	**15.5N**±.10	**42.1E**±.10	**10**	**4.2b**,4.8s	**34**	**6-124**
NEIC	VII	14 13 29 18.3	15.49N	42.22E	10	4.4b	**¶97vii2136**	
EIDC	VII	14 13 29 19.0	15.6N	42.2E	0	3.9b		
BJI	VII	14 13 29 22.1	15.78N	42.25E	24	5.1b,5.0s		
NEIC		Less reliable solution.						
DHMR	**VII**	**14 14 03 54.1**	**15.5N**	**42.0E**	**27**	**3.0L**	**¶97vii2145**	
JSO	**VII**	**15 02 24 28.7**	**29.45N**	**35.01E**	**7**	**2.5L**	**¶97vii2237**	
DHMR	**VII**	**15 03 06 55.5**	**15.1N**	**42.5E**		**3.0L**	**¶97vii2242**	
DHMR	**VII**	**15 10 19 16.6**	**14.6N**	**42.1E**	**25**	**3.5L**	**¶97vii2290**	
DHMR	**VII**	**15 15 34 16.7**	**14.7N**	**44.3E**	**26**	**2.3L**	**¶97vii2319**	
DHMR	**VII**	**26 12 32 56.3**	**14.7N**	**43.1E**	**46**	**2.3L**	**¶97vii3964**	
DHMR	**VII**	**26 14 08 19.3**	**12.0N**	**43.7E**	**13**	**2.8L**	**¶97vii3973**	
DHMR	**VII**	**28 00 32 57.0**	**14.7N**	**43.1E**	**2**	**3.2L**	**¶97vii4187**	
DHMR	**VII**	**28 00 36 39.3**	**14.7N**	**43.0E**	**29**	**3.2L**	**¶97vii4189**	
DHMR	**VII**	**28 01 32 56.2**	**14.7N**	**43.0E**	**13**	**2.9L**	**¶97vii4193**	
ISC	**VIII**	**05 13 22 21**±4.6	**29.99N**±.062	**35.3E**±.38	**0**		**7**	**0-1**
IPRG	VIII	05 13 22 19.6±1.38	30.0N	35.3E	0±4.1	2.3L	**¶97viii0671**	
ISC	**VIII**	**15 21 00 44**±1.5	**12.0N**±.14	**44.0E**±.14	**5**		**11**	**1-4**
DHMR	VIII	15 21 00 36.7	11.5N	44.3E	193	3.7L	**¶97viii2272**	
ARO	VIII	15 21 00 47.0	12.1N	43.9E	5±4.7	3.7L		
DHMR	**VIII**	**17 15 48 36.2**	**13.6N**	**45.5E**	**7**	**3.1L**	**¶97viii2558**	
DHMR	**VIII**	**26 04 10 48.0**	**12.1N**	**43.8E**	**21**	**4.0L**	**¶97viii3787**	
ISC	**VIII**	**30 03 37 31**±1.0	**28.99N**±.050	**35.16E**±.090	**14**±7.5		**22**	**0-3**
JSO	VIII	30 03 37 30.1	29.08N	34.89E	10	3.4L	**¶97viii4420**	
IPRG	VIII	30 03 37 31.8±1.39	29.0N	34.8E	5±4.3	3.4L		
RYD	VIII	30 03 37 32.4	28.96N	34.83E	12	3.6D		
ISC	**IX**	**09 14 01 03**±1.9	**29.96N**±.092	**35.2E**±.19	**11**±14		**7**	**0-1**
JSO	IX	09 14 01 03.2	29.97N	35.12E	5	2.7L	**¶97ix1388**	
ISC	**IX**	**09 21 03 34**±1.9	**29.0N**±.11	**35.01E**±.075	**2**±8.5		**16**	**0-2**
RYD	IX	09 21 03 31.8	28.8N	34.8E	15	3.0D	**¶97ix1438**	
JSO	IX	09 21 03 32.5	28.88N	34.80E	5	3.1L		
IPRG	IX	09 21 03 33.3±.69	28.9N	34.9E	0	2.0L		
DHMR	**IX**	**13 08 13 23.1**	**15.1N**	**42.4E**	**20**	**3.6L**	**¶97ix1953**	
RYD	**IX**	**14 04 39 41.2**	**17.7N**	**46.6E**	**50**	**3.9D**	**¶97ix2071**	
ISC	**IX**	**16 09 53 47**±1.6	**29.97N**±.045	**35.5E**±.13	**4**±14		**12**	**1-1**
IPRG	IX	16 09 53 47.3±.26	30.0N	35.5E	5±1.6	2.7L	**¶97ix2368**	
ISC	**IX**	**21 10 00 12**±1.9	**29.97N**±.044	**35.5E**±.15	**1**±20		**12**	**1-1**
IPRG	IX	21 10 00 13.7±.37	30.0N	35.4E	2±3.5	2.5L	**¶97ix3079**	
JSO	**IX**	**25 22 58 04.1**	**29.59N**	**35.03E**	**5**	**2.2L**	**¶97ix3801**	
DHMR	**IX**	**28 10 03 54.8**	**12.0N**	**43.5E**	**27**	**3.2L**	**¶97ix4611**	
RYD	**IX**	**29 20 12 49.4**	**16.1N**	**43.72E**	**1**	**3.3D**	**¶97ix5013**	
RYD	**X**	**05 13 16 00.0**	**29.88N**	**36.43E**	**35**	**3.0D**	**¶97x0869**	
ISC	**X**	**06 11 27 11**±7.1	**30.00N**±.077	**35.5E**±.51	**0**		**7**	**1-1**
IPRG	X	06 11 27 11.4±.40	30.0N	35.4E	0±4.7	2.1L	**¶97x1034**	
JSO	**X**	**11 01 44 41.8**	**29.50N**	**35.00E**	**1**	**2.1L**	**¶97x1825**	
JSO	**X**	**14 13 12 13.7**	**29.44N**	**35.00E**	**10**	**2.2L**	**¶97x2412**	
ISC	**X**	**14 20 23 52**±1.3	**29.02N**±.098	**35.18E**±.072	**5**		**7**	**0-1**
JSO	X	14 20 23 53.6	29.24N	34.86E	5	2.5L	**¶97x2487**	
ISC	**X**	**15 02 49 15**±16	**29.3N**±.65	**35.0E**±.75	**2**		**5**	**0-1**
JSO	X	15 02 49 14.7	29.33N	34.95E	2	2.4L	**¶97x2544**	
ISC	**X**	**16 00 23 51**±12	**29.2N**±.55	**35.0E**±.57	**5**		**5**	**0-1**
JSO	X	16 00 23 52.7	29.34N	34.97E	5	2.5L	**¶97x2756**	
ISC	**X**	**27 09 44 30**±1.6	**28.36N**±.087	**36.6E**±.19	**6**		**10**	**1-3**
RYD	X	27 09 44 23.7	28.93N	37.39E	35	3.2D	**¶97x4597**	
IPRG	X	27 09 44 27.1±.54	27.7N	35.7E	6	3.3L		
RYD	**X**	**27 15 11 05.8**	**28.80N**	**37.54E**	**35**	**3.1D**	**¶97x4624**	
ISC	**X**	**31 16 41 14**±14	**29.2N**±.64	**35.0E**±.55	**4**		**6**	**1-1**
JSO	X	31 16 41 17.5	29.37N	34.96E	4	2.6L	**¶97x5206**	
RYD	**XI**	**01 13 34 58.5**	**29.67N**	**37.1E**	**35**	**3.0D**	**¶97xi0087**	
RYD	**XI**	**09 06 52 34.9**	**15.77N**	**43.16E**	**15**	**3.4D**	**¶97xi1414**	
ISC	**XI**	**11 20 47 50.9**±.96	**28.95N**±.068	**35.41E**±.087	**5**		**10**	**1-2**
IPRG	XI	11 20 47 53.3±.69	29.0N	34.7E	5	2.5L	**¶97xi1869**	
RYD	XI	11 20 47 53.9	28.8N	34.82E	22	3.1D		
DHMR	**XI**	**16 12 12 56.8**	**12.2N**	**43.2E**	**6**	**3.0L**	**¶97xi2647**	
DHMR	**XI**	**16 15 58 33.2**	**12.1N**	**43.2E**	**40**	**3.2L**	**¶97xi2665**	
ISC	**XI**	**18 10 56 33.5**±.86	**29.99N**±.040	**35.46E**±.085	**1**		**15**	**1-2**
IPRG	XI	18 10 56 33.6±.28	30.0N	35.5E	1±2.9	2.8L	**¶97xi2949**	
RYD	XI	18 10 56 33.8	30.05N	35.65E	36	3.1D		
RYD	**XI**	**18 11 23 06.6**	**29.79N**	**36.99E**	**35**	**3.0D**	**¶97xi2951**	
RYD	**XI**	**19 11 01 41.1**	**29.86N**	**36.87E**	**35**	**3.2D**	**¶97xi3197**	
RYD	**XI**	**22 14 15 46.3**	**29.81N**	**36.86E**	**35**	**3.0D**	**¶97xi3891**	
RYD	**XI**	**24 11 22 40.2**	**29.87N**	**36.94E**	**35**	**3.0D**	**¶97xi4307**	
RYD	**XI**	**24 15 02 02.4**	**18.3N**	**41.12E**	**45**	**3.0D**	**¶97xi4333**	
DHMR	**XI**	**27 07 20 00.7**	**12.1N**	**43.2E**	**13**	**3.2L**	**¶97xi4823**	
RYD	**XI**	**27 10 29 32.1**	**29.45N**	**37.0E**	**34**	**3.1D**	**¶97xi4841**	
ISC	**XI**	**29 17 51 50.5**±.74	**28.87N**±.054	**35.27E**±.073	**5**		**12**	**0-2**
JSO	XI	29 17 51 52.0	28.91N	35.30E	5	2.9L	**¶97xi5299**	
RYD	XI	29 17 51 52.0	28.74N	35.28E	10	3.2D		
ISC	**XI**	**29 18 40 12**±9.8	**29.3N**±.55	**35.5E**±.29	**0**		**4**	**0-1**
JSO	XI	29 18 40 13.6	29.35N	35.48E	0	2.5L	**¶97xi5308**	
ISC		Poorly determined						
DHMR	**XII**	**03 14 20 40.9**	**12.1N**	**43.8E**	**55**	**3.4L**	**¶97xii0439**	
RYD	**XII**	**04 10 08 34**	**29.99N**	**36.94E**	**28**	**3.1D**	**¶97xii0596**	
RYD	**XII**	**08 11 57 49.7**	**29.87N**	**36.98E**	**35**	**3.0D**	**¶97xii1921**	
ISC	**XII**	**13 16 44 55**±7.3	**29.3N**±.40	**35.2E**±.32	**11**		**5**	**0-1**
JSO	XII	13 16 44 55.9	29.31N	35.17E	11	2.7L	**¶97xii2979**	
ISC	**XII**	**19 23 44 56**±3.5	**29.8N**±.19	**35.0E**±.25	**17**		**5**	**0-1**
JSO	XII	19 23 44 56.1	29.83N	35.01E	17	2.5L	**¶97xii4051**	
ISC	**XII**	**23 18 02 55**±1.4	**14.29N**±.097	**44.0E**±.19	**19**		**4**	**0-2**
DHMR	XII	23 18 02 54.7	14.3N	44.0E	19	3.1L	**¶97xii4637**	
ISC		Poorly determined						
ISC	**XII**	**26 04 49 54**±4.4	**15.7N**±.18	**42.7E**±.38	**14**		**4**	**1-3**
DHMR	XII	26 04 49 49.4	15.6N	42.4E	14	3.3L	**¶97xii5048**	
ISC		Poorly determined						
ISC	**XII**	**26 05 29 02**±1.3	**15.25N**±.066	**42.0E**±.14	**33**		**15**	**2-6**
DHMR	XII	26 05 29 03.1	15.1N	42.2E	27	3.6L	**¶97xii5058**	
ARO	XII	26 05 29 04.2	15.2N	42.2E	5±100.0	3.8L		
RYD	XII	26 05 29 04.6	16.38N	41.14E	15	3.3D		
ISC	**XII**	**26 06 11 00**±3.4	**15.2N**±.21	**42.2E**±.24	**1**		**12**	**1-4**
DHMR	XII	26 06 11 00.2	15.0N	42.3E	1	3.8L	**¶97xii5065**	
ARO	XII	26 06 11 04.8	15.1N	42.2E	5±100.0	3.8L		

(557) Sudan.

NAI	**XII**	**22 06 57 56.5**	**5.4N**	**33.6E**	**0**	**4.6L**	**¶97xii4375**	

(558) Ethiopia.

ISC	**VII**	**14 07 15 11**±1.3	**11.9N**±.11	**39.3E**±.26	**10**	**3.8b**	**8**	**3-103**
EIDC	VII	14 07 15 10.3	11.9N	39.4E	0	3.8b,4.8L	**¶97vii2079**	
NEIC	VII	14 07 15 10.5	11.94N	39.24E	10	3.8b		
NEIC		Less reliable solution.						
EIDC	**VIII**	**10 08 29 15.0**	**10.7N**	**41.2E**	**0**	**3.7b**		**23-49**
							¶97viii1374	
ISC	**VIII**	**15 21 45 16**±1.3	**11.9N**±.11	**43.5E**±.13	**26**±10		**12**	**0-4**
DHMR	VIII	15 21 45 07.4	11.3N	43.6E	168	3.0L	**¶97viii2278**	
ARO	VIII	15 21 45 17.5	11.9N	43.5E	8±1.7	3.7L		
ISC	**VIII**	**17 22 54 16**±1.2	**12.1N**±.12	**39.7E**±.30	**10**	**3.9b**	**7**	**3-55**
NEIC	VIII	17 22 54 15.4	12.07N	39.66E	10		**¶97viii2595**	
EIDC	VIII	17 22 54 16.1	12.1N	39.7E	0	3.8b,3.9L		
NEIC		Poor solution.						
DHMR	**VIII**	**26 01 41 07.0**	**11.9N**	**43.8E**	**28**	**4.0L**	**¶97viii3770**	
ISC	**VIII**	**30 00 02 50**±2.8	**12.0N**±.13	**43.5E**±.25	**26**±13		**7**	**0-5**
ARO	VIII	30 00 02 50.5	11.9N	43.6E	5±12.8	4.0L	**¶97viii4397**	
ISC	**VIII**	**30 03 12 01**±1.4	**11.87N**±.093	**43.3E**±.13	**5**		**5**	**0-1**
ARO	VIII	30 03 11 58.3	11.9N	43.5E	5±27.3	3.5L	**¶97viii4417**	
ISC	**IX**	**17 00 53 22.2**±.74	**11.84N**±.092	**43.11E**±.091	**19**±14		**9**	**0-4**
DHMR	IX	17 00 53 22.3	11.9N	43.3E	23	4.2L	**¶97ix2452**	
ARO	IX	17 00 53 23.0	11.8N	43.1E	8±8.8	4.0L		
ISC	**IX**	**27 18 22 29**±3.0	**11.8N**±.12	**43.1E**±.11	**23**±38		**9**	**0-1**
ARO	IX	27 18 22 30.3	11.8N	43.1E	6±.9	3.5L	**¶97ix4428**	
ARO	**IX**	**27 18 28 28.6**	**13.5N**	**40.2E**	**5**±100.0	**3.5L**	**¶97ix4430**	
DHMR	**XI**	**04 14 23 41.5**	**11.8N**	**43.7E**	**45**	**3.4L**	**¶97xi0651**	
DHMR	**XII**	**05 11 39 06.6**	**12.3N**	**42.4E**	**281**	**4.0L**	**¶97xii0836**	
ISC	**XII**	**06 08 31 56**±3.1	**11.7N**±.22	**43.3E**±.17	**10**±18		**11**	**0-4**
ARO	XII	06 08 31 58.5	11.8N	43.2E	7±.8	3.5L	**¶97xii1310**	
DHMR	XII	06 08 32 00.3	11.9N	43.5E	31	3.2L		
ISC	**XII**	**06 09 05 37.5**±.93	**11.9N**±.15	**43.2E**±.13	**21**±13		**10**	**0-6**
DHMR	XII	06 09 05 35.3	12.0N	43.1E	11	3.4L	**¶97xii1320**	
ARO	XII	06 09 05 37.9	11.8N	43.2E	1±1.5	3.5L		
DHMR	**XII**	**06 09 09 54.9**	**12.1N**	**43.0E**	**22**	**3.2L**	**¶97xii1323**	
DHMR	**XII**	**06 18 52 00.8**	**11.9N**	**43.5E**	**38**	**3.0L**	**¶97xii1496**	
ISC	**XII**	**07 05 29 14**±1.0	**11.8N**±.13	**43.2E**±.12	**25**±10		**12**	**0-4**
DHMR	XII	07 05 29 11.4	11.9N	43.2E	13	3.4L	**¶97xii1620**	
ARO	XII	07 05 29 15.2	11.8N	43.2E	5±2.8	3.6L		
ISC	**XII**	**07 05 50 57**±1.6	**11.8N**±.13	**43.2E**±.13	**5**		**8**	**0-1**
ARO	XII	07 05 50 57.8	11.8N	43.2E	5±3.2	3.6L	**¶97xii1625**	
DHMR	**XII**	**07 11 10 33.2**	**11.8N**	**43.4E**	**9**	**3.4L**	**¶97xii1682**	
ARO	XII	07 11 10 57.5	11.8N	43.2E	5±3.5	3.7L		
ISC	**XII**	**07 11 44 38**±4.0	**11.9N**±.25	**43.2E**±.18	**22**±53		**8**	**0-1**
ARO	XII	07 11 44 39.0	11.8N	43.2E	2±1.0	3.8L	**¶97xii1690**	
ISC	**XII**	**08 06 39 26.3**±.88	**11.8N**±.12	**43.1E**±.11	**23**±12		**12**	**0-5**
DHMR	XII	08 06 39 23.7	11.9N	43.5E	251	4.0L	**¶97xii1885**	
NEIC	XII	08 06 39 26.0	11.73N	43.16E	10			
ARO	XII	08 06 39 27.0	11.8N	43.1E	4±2.2	4.1L		
NEIC		Single network solution.						
ISC	**XII**	**08 06 40 37**±1.9	**11.8N**±.18	**43.1E**±.15	**1**		**4**	**0-1**
ARO	XII	08 06 40 36.4	11.8N	43.2E	1±1.2	3.8L	**¶97xii1886**	
ISC		Poorly determined						
ISC	**XII**	**09 04 00 20**±1.3	**11.8N**±.16	**43.2E**±.16	**23**±12		**9**	**0-4**
DHMR	XII	09 04 00 19.3	11.8N	43.4E	32	3.9L	**¶97xii2098**	
ARO	XII	09 04 00 21.0	11.8N	43.2E	1±2.6	4.1L		
ISC	**XII**	**09 09 38 43**±3.7	**11.9N**±.24	**43.2E**±.17	**20**±57		**8**	**0-1**
NEIC	XII	09 09 38 42.5	11.77N	43.19E	10		**¶97xii2145**	
ARO	XII	09 09 38 43.5	11.8N	43.2E	4±1.8	3.8L		
NEIC		M_L3.8(ARO), Single network solution.						
ARO	**XII**	**16 09 27 12.2**	**11.8N**	**43.2E**	**7**±3.6	**3.7L**	**¶97xii3425**	
DHMR	XII	16 09 26 47.1	11.8N	43.2E	21	3.5L		

(559) Western Gulf of Aden.

DHMR	**IX**	**09 23 01 49.6**	**11.8N**	**44.2E**	**16**	**3.0L**	**¶97ix1450**	

(567) Zaïre.

ISC	**X**	**10 06 25 55.9**±.38	**11.72S**±.059	**28.76E**±.072	**33**	**4.2b**	**34**	**8-81**
NEIC	X	10 06 25 55.9	11.79S	28.70E	33	4.8b	**¶97x1705**	
EIDC	X	10 06 25 57.7	11.7S	28.9E	30	4.1b		
NEIC		Less reliable solution.						

ISC	X	**11 04 11 25.6**±.32	**10.61S**±.051	**24.67E**±.076	**35**±.8*	**4.5b,4.0s**	**55**	**10-129**
NEIC	X	11 04 11 21.1	10.65S	24.92E	10	4.7b		**¶97x1842**
EIDC	X	11 04 11 27.7	10.7S	24.9E	34	4.1b,3.9s		

(568) Uganda.

ISC	VII	**18 01 45 12.3**±.37	**2.43N**±.064	**31.61E**±.070	**10**	**4.7b,4.0s**	**59**	**6-127**
NEIC	VII	18 01 45 12.3	2.45N	31.61E	10	4.7b		**¶97vii2674**
EIDC	VII	18 01 45 12.7	2.5N	31.4E	0	4.5b,4.1s		
BJI	VII	18 01 45 13.6	2.83N	31.52E	12	4.8b		
NAI	VII	18 01 45 18.6	1.8N	31.5E	14	4.7L		
ISC	VII	**18 02 44 24.9**±.94	**2.3N**±.16	**31.5E**±.12	**10**	**4.4b**	**28**	**7-127**
NEIC	VII	18 02 44 24.7	2.33N	31.56E	10	4.6b		**¶97vii2680**
EIDC	VII	18 02 44 26.1	2.5N	31.3E	0	4.2b		
BJI	VII	18 02 44 27.2	2.75N	31.54E	12	4.6b		
NEIC	Less reliable solution.							
ISC	VII	**18 02 50 01.6**±.64	**2.4N**±.12	**31.59E**±.098	**10**	**4.6b,3.8s**	**42**	**6-127**
NEIC	VII	18 02 50 02.4	2.48N	31.49E	10	4.7b		**¶97vii2682**
EIDC	VII	18 02 50 02.6	2.3N	31.4E	0	4.4b,3.9s		
NAI	VII	18 02 50 04.8	2.2N	31.6E		4.5L		
BJI	VII	18 02 50 05.5	3.26N	31.80E	5	4.7b		
NEIC	Less reliable solution.							
ISC	VII	**18 03 17 24.8**±.41	**2.45N**±.072	**31.60E**±.062	**10**	**4.7b,3.8s**	**69**	**6-127**
EIDC	VII	18 03 17 23.7	2.2N	31.4E	0	4.5b		**¶97vii2686**
NEIC	VII	18 03 17 24.1	2.35N	31.57E	10	4.8b		
BJI	VII	18 03 17 26.7	2.75N	31.62E	13	5.0b		
NAI	VII	18 03 17 28.6	2.2N	31.7E		4.6L		
ISC	VII	**19 13 45 15.9**±.49	**2.44N**±.088	**31.67E**±.075	**10**	**4.5b**,4.2s	**44**	**6-127**
EIDC	VII	19 13 45 15.2	2.3N	31.4E	0	4.3b,4.2s		**¶97vii2883**
NEIC	VII	19 13 45 19.4	2.52N	31.72E	33	4.7b		
NAI	VII	19 13 45 19.6	2.3N	31.7E	10	4.9L		
BJI	VII	19 13 45 20.7	2.79N	31.51E	32	4.9b		
NEIC	Less reliable solution.							
ISC	VII	**19 14 21 38.4**±.69	**2.3N**±.13	**31.6E**±.12	**33**	**4.4b**	**33**	**6-84**
EIDC	VII	19 14 21 35.1	2.2N	31.4E	0	4.2b		**¶97vii2887**
NEIC	VII	19 14 21 37.5	2.18N	31.41E	33	4.6b		
NAI	VII	19 14 21 40.0	3.7S	30.4E		4.6L		
BJI	VII	19 14 21 42.4	2.75N	31.66E	41	4.6b		
NEIC	Less reliable solution.							
NAI	VII	**19 14 33 50.9**	**2.0N**	**31.6E**		**3.5L**		**¶97vii2890**
NAI	VII	**19 15 30 41.6**	**2.1N**	**31.7E**	**14**	**3.9L**		**¶97vii2906**
NAI	VII	**30 20 16 29.8**	**1.6N**	**31.5E**	**10**	**4.2L**		**¶97vii4631**
NAI	IX	**18 16 48 46.2**	**1.5N**	**34.5E**	**14**	**3.3L**		**¶97ix2687**
NAI	IX	**25 20 29 45.4**	**0.3S**	**30.4E**	**2**	**4.9L**		**¶97ix3790**

(569) Lake Victoria region.

NAI	VII	**25 03 11 08.9**	**3.7S**	**33.5E**	**14**	**3.3L**		**¶97vii3762**
NAI	IX	**16 01 53 26.2**	**0.0N**	**34.2E**	**7**	**3.2L**		**¶97ix2310**
NAI	IX	**18 17 50 56.1**	**1.1S**	**33.5E**	**7**	**4.1L**		**¶97ix2693**
NAI	IX	**23 16 56 09.9**	**1.0S**	**33.6E**	**4**	**4.3L**		**¶97ix3456**
NAI	IX	**24 09 21 32.3**	**0.8S**	**34.0E**	**14**	**4.1L**		**¶97ix3558**

(570) Kenya.

NAI	VIII	**09 12 22 17.0**	**1.7S**	**36.5E**	**14**	**3.0L**		**¶97viii1247**
NAI	VIII	**24 11 37 09.2**	**1.7S**	**36.6E**	**12**	**3.0L**		**¶97viii3522**
NAI	X	**12 23 30 21.1**	**2.5S**	**37.5E**	**0**	**3.6L**		**¶97x2124**
NAI	X	**20 09 16 48.3**	**2.7S**	**37.7E**	**10**	**3.2L**		**¶97x3471**
NAI	X	**21 05 54 37.6**	**2.8S**	**37.7E**	**10**	**3.1L**		**¶97x3615**
NAI	X	**26 01 54 34.9**	**1.4S**	**36.5E**	**14**	**3.6L**		**¶97x4402**
NAI	X	**29 01 06 44.3**	**0.0S**	**38.3E**	**8**	**3.3L**		**¶97x4839**
NAI	XI	**01 02 47 34.0**	**0.6N**	**37.0E**	**6**	**3.5L**		**¶97xi0017**
NAI	XI	**23 06 08 39.0**	**1.8S**	**36.3E**	**14**	**3.2L**		**¶97xi4053**
NAI	XI	**27 22 32 11.5**	**2.8S**	**37.5E**	**22**	**3.2L**		**¶97xi4949**
NAI	XII	**09 17 06 39.1**	**2.5S**	**37.7E**	**11**	**3.0L**		**¶97xii2206**
NAI	XII	**31 01 41 58.7**	**0.3S**	**38.5E**	**4**	**3.0L**		**¶97xii5819**

(572) Lake Tanganyika region.

NAI	VII	**23 17 08 01.5**	**6.6S**	**31.1E**	**8**	**4.5L**		**¶97vii3557**
ISC	IX	**21 18 13 23.0**±.18	**7.36S**±.031	**30.32E**±.036	**10**	**5.5b,5.9s**	**444**	**9-164**
NEIC	IX	21 18 13 22.7	7.36S	30.37E	10	5.7b,6.2s		**¶97ix3142**
MOS	IX	21 18 13 23.0	7.3S	30.3E	10	5.7b,5.8s		
BJI	IX	21 18 13 23.6	6.88S	30.18E	8	5.4b,5.9s		
EIDC	IX	21 18 13 28.3	7.4S	30.3E	38	4.7b		
HRVD	IX	21 18 13 32.5±.1	7.29S±.02	30.27E±.01	30			
NEIC	Mw5.9(GS), Me5.6(GS).							
NEIC	Mw 5.9 (HRV).							
NEIC	Radiated energy from the P−wave first−motion solution: 4.8±0.9×10^{12}Nm/10							
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S185°,δ65°,λ−45°. NP2:ϕ_S298°,δ50°, λ−147°. Principal axes: T Plg9°,Azm245°; P Plg49°,Azm144°. Depth from synthetics of broadband displacement seismograms.							
NEIC	Moment tensor solution: s23, scale 10^{17}Nm; M_{rr}−4.24; $M_{\theta\theta}$0.10; $M_{\phi\phi}$4.14; $M_{r\theta}$0.14; $M_{r\phi}$5.31; $M_{\theta\phi}$−1.88. Depth 22km; Principal axes: T 7.10,Plg24°,Azm255°; N −0.15,Plg13°,Azm351°; P −6.94,Plg62°,Azm107°. Best double couple: $M_0$7.0×10^{17}Nm; NP1:ϕ_S320°,δ24°,λ−124°. NP2:ϕ_S176°,δ70°,λ−76°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c108; Mantle waves: s30,c38; Half duration: 2s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−5.68±.07; $M_{\theta\theta}$−0.66±.07; $M_{\phi\phi}$6.34±.09; $M_{r\theta}$1.74±.16; $M_{r\phi}$4.50±.16; $M_{\theta\phi}$−2.94±.07. Principal Axes: T 8.42,Plg15°,Azm255°; N −0.30,Plg24°,Azm352°; P −8.11,Plg61°,Azm135°. Best double couple: $M_0$8.3×10^{17}Nm, NP1:ϕ_S315°,δ36°,λ−133°. NP2:ϕ_S184°,δ64°,λ−64°.							
ISC	IX	**21 22 48 09.1**±.64	**7.40S**±.088	**30.6E**±.13	**36**±3.9*	**4.0b**	**15**	**8-77**
NEIC	IX	21 22 48 06.1	7.33S	30.35E	10	4.6b		**¶97ix3176**
NAI	IX	21 22 48 06.1	7.6S	30.4E	0	4.9L		
EIDC	IX	21 22 48 12.0	7.3S	30.3E	35	3.8b,4.0s		
NEIC	Less reliable solution.							
ISC	XI	**11 22 42 52.0**±.66	**2.69S**±.099	**29.18E**±.083	**10**	**4.1b**	**21**	**7-128**
NEIC	XI	11 22 42 51.8	2.73S	28.91E	10	4.7b		**¶97xi1888**
EIDC	XI	11 22 42 53.0	2.5S	28.8E	0	3.9b,4.0L		
NAI	XI	11 22 42 54.0	2.3S	29.1E	0	5.3L		
NEIC	Less reliable solution.							
ISC	XI	**21 23 24 06.1**±.51	**4.90S**±.078	**29.55E**±.068	**10**	**4.1b,3.7s**	**20**	**7-77**
NAI	XI	21 23 24 05.4	5.4S	29.4E	14	5.3L		**¶97xi3757**
NEIC	XI	21 23 24 07.0	4.83S	29.38E	10	4.7b		
EIDC	XI	21 23 24 21.1	4.1S	28.7E	57	3.7b,3.8s		
NEIC	Less reliable solution.							

(573) Tanzania.

NAI	VII	**01 18 31 31.0**	**3.0S**	**35.9E**	**12**	**3.3L**		**¶97vii0129**
NAI	VII	**03 03 33 04.5**	**5.3S**	**35.9E**	**2**	**3.6L**		**¶97vii0349**
NAI	VII	**04 00 23 31.4**	**5.2S**	**36.0E**	**12**	**4.0L**		**¶97vii0473**
NAI	VII	**07 14 28 40.2**	**4.0S**	**37.4E**	**4**	**3.1L**		**¶97vii1055**
NAI	VII	**10 06 59 02.2**	**5.3S**	**36.0E**	**9**	**3.9L**		**¶97vii1464**
NAI	VII	**10 23 23 22.5**	**3.5S**	**35.6E**	**37**	**3.6L**		**¶97vii1584**
NAI	VII	**27 21 20 38.2**	**3.2S**	**35.9E**	**8**	**3.7L**		**¶97vii4163**
NAI	VIII	**07 00 35 26.6**	**3.9S**	**35.1E**	**8**	**4.2L**		**¶97viii0864**
NAI	VIII	**07 08 58 05.9**	**5.4S**	**36.0E**	**4**	**3.5L**		**¶97viii0912**
NAI	VIII	**09 08 40 40.7**	**8.0S**	**39.4E**	**0**	**4.8L**		**¶97viii1225**
NAI	VIII	**14 19 16 45.0**	**4.2S**	**35.7E**	**11**	**3.2L**		**¶97viii2101**
NAI	VIII	**16 14 44 29.1**	**3.8S**	**36.7E**	**30**	**3.0L**		**¶97viii2386**
NAI	VIII	**26 19 01 23.5**	**3.7S**	**35.8E**	**14**	**3.1L**		**¶97viii3890**
NAI	IX	**05 03 33 38.2**	**4.0S**	**35.7E**	**13**	**3.7L**		**¶97ix0685**
NAI	IX	**05 22 22 39.8**	**5.3S**	**35.9E**	**13**	**3.8L**		**¶97ix0804**
NAI	IX	**21 16 34 49.0**	**3.8S**	**35.7E**	**14**	**3.8L**		**¶97ix3128**
NAI	IX	**23 15 41 27.4**	**4.2S**	**37.7E**	**12**	**3.5L**		**¶97ix3447**
NAI	IX	**30 07 35 55.4**	**5.5S**	**35.3E**	**10**	**4.5L**		**¶97ix5161**
NAI	IX	**30 11 49 59.2**	**5.3S**	**35.7E**	**5**	**4.0L**		**¶97ix5220**
NAI	X	**05 05 07 55.7**	**5.3S**	**36.1E**	**3**	**3.6L**		**¶97x0803**
NAI	X	**08 15 59 16.5**	**3.6S**	**35.1E**	**14**	**4.2L**		**¶97x1436**
NAI	X	**10 04 34 36.7**	**2.5S**	**36.1E**	**14**	**3.2L**		**¶97x1689**
NAI	X	**12 15 19 15.9**	**3.1S**	**36.3E**	**3**	**3.3L**		**¶97x2065**
NAI	X	**20 10 49 16.9**	**3.7S**	**37.4E**	**13**	**3.0L**		**¶97x3484**
NAI	X	**25 05 23 25.9**	**5.3S**	**35.8E**	**13**	**4.5L**		**¶97x4279**
NAI	XI	**05 17 26 38.1**	**3.8S**	**35.8E**	**14**	**3.8L**		**¶97xi0833**
NAI	XI	**15 18 27 04.4**	**3.8S**	**35.9E**	**14**	**4.6L**		**¶97xi2517**
NAI	XII	**17 00 59 45.7**	**3.7S**	**35.8E**	**14**	**3.4L**		**¶97xii3532**
NAI	XII	**17 06 51 19.1**	**3.9S**	**35.7E**	**14**	**4.1L**		**¶97xii3567**
NAI	XII	**17 09 06 39.6**	**3.9S**	**35.7E**	**9**	**3.6L**		**¶97xii3582**
NAI	XII	**17 10 18 33.9**	**3.8S**	**36.1E**	**0**	**3.0L**		**¶97xii3588**
NAI	XII	**19 10 06 27.6**	**3.9S**	**35.8E**	**14**	**3.5L**		**¶97xii3931**
NAI	XII	**25 05 07 43.2**	**3.4S**	**36.3E**	**5**	**3.2L**		**¶97xii4869**

(574) North-west of Madagascar.

ISC	IX	**15 22 38 24.1**±.63	**10.70S**±.097	**43.2E**±.11	**10**	**4.6b,3.7s**	**39**	**9-148**
NEIC	IX	15 22 38 23.3	10.83S	43.16E	10	4.7b		**¶97ix2292**
EIDC	IX	15 22 38 29.7	10.9S	43.4E	41	4.0b,4.0s		
NEIC	Less reliable solution.							

(581) Moçambique.

PRE	IX	**11 01 05 59.1**	**25.79S**	**34.57E**	**10**	**3.9L**		**¶97ix1605**

(582) Moçambique Channel.

EIDC	VII	**17 07 15 26.0**	**18.8S**	**41.3E**	**0**	**4.1b**		**33-134**
								¶97vii2566

(583) Madagascar.

EIDC	XI	**24 23 08 23.7**	**23.8S**	**43.7E**	**0**	**3.9b,4.2s**		**¶97xi4402**

(584) South Africa.

PRE	VII	**01 18 41 03.8**	**26.49S**	**27.36E**	**2**	**3.0L**		**¶97vii0131**
PRE	VII	**01 22 24 28.4**	**26.75S**	**26.87E**	**2**	**3.0L**		**¶97vii0149**
PRE	VII	**03 19 02 45.9**	**26.50S**	**27.39E**	**2**	**3.2L**		**¶97vii0439**
PRE	VII	**04 00 48 10.1**	**26.74S**	**26.82E**	**2**	**3.7L**		**¶97vii0476**
PRE	VII	**04 15 37 45.7**	**26.85S**	**26.73E**	**2**	**3.0L**		**¶97vii0584**
ISC	VII	**05 15 39 25**±1.5	**28.1S**±.15	**27.0E**±.28	**2**		**12**	**1-3**
PRE	VII	05 15 39 26.7	27.95S	26.74E	2	3.3L		**¶97vii0746**
PRE	VII	**06 01 04 10.2**	**26.41S**	**27.41E**	**2**	**3.8L**		**¶97vii0814**
PRE	VII	**09 14 08 12.1**	**26.43S**	**27.44E**	**2**	**3.6L**		**¶97vii1349**
PRE	VII	**09 17 42 54.0**	**26.94S**	**26.73E**	**2**	**3.4L**		**¶97vii1371**
PRE	VII	**10 07 23 19.8**	**26.90S**	**26.80E**	**2**	**3.5L**		**¶97vii1469**
PRE	VII	**16 08 10 18.5**	**26.44S**	**27.53E**	**2**	**3.4L**		**¶97vii2409**
PRE	VII	**17 22 23 54.4**	**26.87S**	**26.76E**	**2**	**3.7L**		**¶97vii2653**
PRE	VII	**18 02 19 49.2**	**26.96S**	**26.82E**	**2**	**3.5L**		**¶97vii2677**
PRE	VII	**18 15 10 22.5**	**26.43S**	**27.44E**	**2**	**3.2L**		**¶97vii2757**
ISC	VII	**19 05 48 19**±1.3	**28.2S**±.13	**26.79E**±.093	**2**		**10**	**1-2**
PRE	VII	19 05 48 17.7	27.94S	26.74E	2	3.0L		**¶97vii2835**
ISC	VII	**19 19 06 05.0**±.91	**26.45S**±.084	**27.6E**±.11	**2**	**4.1b**	**14**	**1-75**
PRE	VII	19 19 06 05.2	26.39S	27.60E	2	3.3L		**¶97vii2937**
EIDC	VII	19 19 06 07.1	26.6S	27.5E	0	4.0b,3.2L		
PRE	VII	**19 19 58 35.7**	**26.41S**	**27.60E**	**2**	**3.4L**		**¶97vii2944**
ISC	VII	**21 08 45 49**±1.5	**26.87S**±.051	**26.78E**±.055	**5**±10	**4.7b**	**90**	**1-151**
NEIC	VII	21 08 45 49.1	26.86S	26.62E	5	5.0b		**¶97vii3220**
PRE	VII	21 08 45 50.1	26.85S	26.82E	2	4.0L		
EIDC	VII	21 08 45 50.4	26.8S	26.5E	0	4.6b,4.6L		
MOS	VII	21 08 45 52.3	26.7S	26.3E	10	5.1b		
NEIC	Casualties.							
NEIC	At least 15 people killed and 46 injured at the Hartebeestfontein gold mine near Stilfontein. Felt as far as Pretoria.							
PRE	VII	**22 21 38 54.5**	**26.93S**	**26.81E**	**2**	**3.2L**		**¶97vii3435**
PRE	VII	**23 16 23 40.2**	**26.50S**	**27.47E**	**2**	**3.1L**		**¶97vii3554**
ISC	VII	**25 06 36 50**±1.3	**26.3S**±.10	**27.9E**±.14	**2**		**14**	**1-4**
PRE	VII	25 06 36 57.3	26.51S	27.42E	2	3.4L		**¶97vii3782**
PRE	VII	**25 11 59 46.0**	**27.03S**	**26.73E**	**2**	**3.5L**		**¶97vii3824**
PRE	VII	**25 23 33 59.6**	**25.70S**	**27.47E**	**2**	**3.1L**		**¶97vii3888**
ISC	VII	**26 03 22 40**±1.5	**26.31S**±.067	**27.8E**±.19	**5**	**4.1b**	**20**	**1-72**
NEIC	VII	26 03 22 39.4	26.40S	27.98E	5			**¶97vii3905**
EIDC	VII	26 03 22 43.4	26.3S	27.4E	0	4.0b,4.0L		
PRE	VII	26 03 22 44.2	26.42S	27.66E	2	3.5L		
NEIC	Poor solution.							
PRE	VII	**28 21 53 37.2**	**26.39S**	**27.71E**	**2**	**3.0L**		**¶97vii4334**
ISC	VII	**29 11 25 05**±1.5	**27.95S**±.052	**26.64E**±.063	**5**±9.4	**4.7b,4.6s**	**78**	**1-149**
NEIC	VII	29 11 25 05.0	27.89S	26.70E	5	4.8b,4.6s		**¶97vii4426**
PRE	VII	29 11 25 05.8	28.10S	26.83E	2	4.0L		
EIDC	VII	29 11 25 05.8	27.9S	26.6E	0	4.6b,4.5L		
MOS	VII	29 11 25 05.9	27.9S	26.6E	10	5.0b		
PRE	VII	**29 13 17 51.4**	**26.93S**	**26.85E**	**2**	**3.0L**		**¶97vii4433**
ISC	VIII	**01 02 17 25.8**±.30	**27.88S**±.043	**26.59E**±.066	**2**	**4.7b**	**84**	**1-149**
PRE	VIII	01 02 17 24.2	28.12S	26.82E	2	4.1L		**¶97viii0011**
NEIC	VIII	01 02 17 26.9	27.94S	26.58E	10	4.8b		
EIDC	VIII	01 02 17 27.4	27.8S	26.5E	0	4.5b,4.9L		
ISC	VIII	**03 02 17 08**±1.1	**27.97S**±.083	**26.7E**±.15	**2**		**8**	**1-3**
PRE	VIII	03 02 17 08.5	28.02S	26.70E	2	3.6L		**¶97viii0286**
PRE	VIII	**07 11 51 51.9**	**28.12S**	**26.89E**	**2**	**3.4L**		**¶97viii0937**

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 11 16 30 18.7**±.72	**28.04S**±.066	**26.79E**±.087	**2**		**12**	**1-8**
PRE	VIII 11 16 30 20.4	28.06S	26.78E	2	3.7L		¶97viii1587
PRE	**VIII 11 18 17 54.3**	**28.00S**	**26.77E**	**2**	**3.4L**		¶97viii1603
ISC	**VIII 11 21 37 42**±2.1	**26.9S**±.14	**26.9E**±.56	**2**		**6**	**1-3**
PRE	VIII 11 21 37 43.9	26.87S	26.69E	2	3.0L		¶97viii1631
ISC	**VIII 17 10 14 01**±1.2	**27.9S**±.14	**26.5E**±.23	**2**		**7**	**1-4**
PRE	VIII 17 10 14 00.0	28.04S	26.70E	2	3.1L		¶97viii2521
ISC	**VIII 17 15 42 08**±5.5	**26.8S**±.46	**26.7E**±.19	**2**		**8**	**1-3**
PRE	VIII 17 15 42 09.7	26.90S	26.74E	2	3.0L		¶97viii2556
ISC	**VIII 18 04 46 11.5**±.75	**26.38S**±.067	**27.5E**±.11	**5**	**4.2b**	**15**	**1-88**
NEIC	VIII 18 04 46 00.4	26.24S	28.65E	5			¶97viii2624
EIDC	VIII 18 04 46 12.6	26.4S	26.8E	0	4.1b		
NEIC	Poor solution.						
PRE	**VIII 18 09 19 34.8**	**27.00S**	**26.72E**	**2**	**3.3L**		¶97viii2654
PRE	**VIII 18 18 31 45.9**	**27.02S**	**26.73E**	**2**	**3.0L**		¶97viii2704
PRE	**VIII 20 12 52 26.7**	**26.42S**	**27.35E**	**2**	**3.0L**		¶97viii2966
ISC	**VIII 21 15 00 33**±1.1	**27.04S**±.094	**26.9E**±.13	**2**		**10**	**1-7**
PRE	VIII 21 15 00 31.6	26.92S	26.80E	2	3.4L		¶97viii3110
ISC	**VIII 25 18 41 16.7**±.95	**26.5S**±.10	**28.4E**±.14	**2**		**9**	**1-7**
PRE	VIII 25 18 41 16.4	26.18S	28.22E	2	3.8L		¶97viii3725
PRE	**VIII 26 11 28 12.9**	**26.24S**	**28.20E**	**2**	**3.1L**		¶97viii3838
PRE	**VIII 27 13 48 37.4**	**26.39S**	**27.60E**	**2**	**3.2L**		¶97viii3992
ISC	**VIII 31 14 35 08**±1.9	**26.4S**±.14	**27.2E**±.14	**2**		**8**	**1-4**
PRE	VIII 31 14 35 07.7	26.40S	27.42E	2	3.1L		¶97viii4669
PRE	**VIII 31 22 42 34.7**	**26.97S**	**26.75E**	**2**	**3.0L**		¶97viii4721
PRE	**IX 03 15 00 14.6**	**26.45S**	**27.39E**	**2**	**3.7L**		¶97ix0437
ISC	**IX 06 21 58 16**±1.1	**26.36S**±.078	**27.2E**±.13	**2**		**8**	**1-6**
PRE	IX 06 21 58 18.1	26.45S	27.38E	2	3.0L		¶97ix0973
PRE	**IX 06 22 52 11.0**	**26.48S**	**27.28E**	**2**	**3.0L**		¶97ix0979
PRE	**IX 07 08 45 39.8**	**26.47S**	**27.36E**	**2**	**3.0L**		¶97ix1033
PRE	**IX 11 02 46 47.3**	**27.93S**	**26.68E**	**2**	**3.3L**		¶97ix1618
ISC	**IX 13 22 11 35.9**±.99	**27.30S**±.085	**26.7E**±.13	**2**		**7**	**1-3**
PRE	IX 13 22 11 31.2	26.87S	26.68E	2	3.0L		¶97ix2041
ISC	**IX 13 22 43 33**±1.0	**26.86S**±.089	**26.6E**±.10	**2**		**10**	**1-9**
PRE	IX 13 22 43 36.1	27.11S	26.70E	2	4.0L		¶97ix2045
PRE	**IX 14 11 22 15.6**	**28.16S**	**26.90E**	**2**	**3.3L**		¶97ix2114
ISC	**IX 17 01 53 21.4**±.87	**26.42S**±.077	**27.5E**±.11	**2**		**11**	**1-7**
PRE	IX 17 01 53 23.0	26.45S	27.51E	2	3.2L		¶97ix2456
ISC	**IX 17 11 58 20**±1.9	**26.55S**±.085	**27.3E**±.11	**17**±20		**11**	**0-6**
PRE	IX 17 11 58 18.3	26.45S	27.33E	2	3.7L		¶97ix2506
ISC	**IX 18 00 42 23**±1.6	**26.9S**±.11	**27.8E**±.14	**26**±15		**8**	**0-4**
PRE	IX 18 00 42 19.8	26.40S	27.43E	2	3.5L		¶97ix2585
ISC	**IX 18 12 31 48**±1.4	**26.5S**±.23	**27.6E**±.17	**2**		**9**	**1-6**
PRE	IX 18 12 31 48.1	26.42S	27.54E	2	3.1L		¶97ix2654
PRE	**IX 18 13 24 08.2**	**26.44S**	**27.36E**	**2**	**3.0L**		¶97ix2664
ISC	**IX 19 16 36 17**±1.4	**26.5S**±.12	**27.4E**±.11	**2**		**8**	**0-4**
PRE	IX 19 16 36 16.2	26.46S	27.48E	2	3.2L		¶97ix2816
ISC	**IX 22 06 32 24**±2.8	**28.1S**±.10	**26.9E**±.19	**18**±43		**7**	**1-3**
PRE	IX 22 06 32 23.4	27.97S	26.64E	2	3.1L		¶97ix3233
PRE	**IX 24 16 52 49.4**	**28.02S**	**26.79E**	**2**	**3.4L**		¶97ix3603
ISC	**IX 25 00 05 23**±1.6	**26.37S**±.052	**27.35E**±.072	**6**±10	**4.7b**,3.7s	**84**	**1-149**
NEIC	IX 25 00 05 23.2	26.37S	27.41E	5	4.7b		¶97ix3653
EIDC	IX 25 00 05 24.3	26.4S	27.4E	0	4.5b,5.1L		
PRE	IX 25 00 05 25.1	26.43S	27.47E	2	4.5L		
NEIC	mbLg4.5(BUL). Casualties.						
NEIC	At least three people injured at the East Dreifontein gold mine. Felt at Johannesburg.						
PRE	**IX 25 05 37 45.9**	**26.82S**	**26.74E**	**2**	**3.0L**		¶97ix3686
ISC	**IX 27 16 21 37**±1.3	**27.0S**±.15	**26.7E**±.13	**2**		**6**	**1-3**
PRE	IX 27 16 21 36.6	26.95S	26.74E	2	3.1L		¶97ix4406
PRE	**IX 30 01 23 25.3**	**26.93S**	**26.63E**	**2**	**3.9L**		¶97ix5088
PRE	**X 03 21 40 17.3**	**26.87S**	**26.66E**	**2**	**3.0L**		¶97x0529
ISC	**X 04 12 57 43**±1.5	**26.3S**±.13	**27.3E**±.11	**2**		**7**	**1-5**
PRE	X 04 12 57 44.8	26.41S	27.33E	2	3.1L		¶97x0649
EIDC	**X 05 01 23 21.9**	**26.9S**	**26.8E**	**0**	4.0b		¶97x0777
PRE	X 05 01 23 39.6	26.35S	27.71E	2	3.5L		
ISC	**X 05 19 02 01**±1.8	**26.42S**±.099	**27.5E**±.10	**22**±17	**3.9b**	**16**	**1-76**
NEIC	X 05 19 01 56.4	26.43S	27.84E	5			¶97x0916
PRE	X 05 19 01 58.4	26.37S	27.31E	2	3.6L		
EIDC	X 05 19 01 58.9	26.3S	27.5E	0	4.0b,4.4L		
NEIC	Less reliable solution.						
PRE	**X 06 05 22 34.0**	**26.82S**	**26.76E**	**2**	**3.4L**		¶97x0998
ISC	**X 06 23 43 11.6**±.73	**26.35S**±.066	**27.23E**±.097	**2**	**3.7b**	**12**	**1-72**
NEIC	X 06 23 43 09.2	26.47S	27.75E	5			¶97x1136
EIDC	X 06 23 43 13.1	26.4S	27.1E	0	4.1L,3.9b		
PRE	X 06 23 43 14.7	26.49S	27.43E	2	3.2L		
NEIC	Poor solution.						
PRE	**X 08 12 07 06.8**	**26.38S**	**27.56E**	**2**	**3.1L**		¶97x1414
ISC	**X 11 20 19 11.4**±.70	**26.85S**±.069	**26.6E**±.10	**2**	**4.0b**	**16**	**1-94**
PRE	X 11 20 19 08.4	26.82S	26.81E	2	3.7L		¶97x1936
NEIC	X 11 20 19 11.9	26.69S	26.62E	5			
EIDC	X 11 20 19 12.7	26.8S	26.5E	0	4.0b,4.2L		
NEIC	Less reliable solution.						
PRE	**X 17 15 57 09.6**	**26.88S**	**26.70E**	**2**	**3.0L**		¶97x3016
PRE	**X 19 08 56 12.0**	**28.36S**	**31.83E**	**5**	**3.5L**		¶97x3320
ISC	**X 20 13 36 04**±1.9	**26.90S**±.066	**26.8E**±.11	**16**±20	3.9b	**16**	**1-145**
NEIC	X 20 13 36 02.1	26.74S	26.70E	5			¶97x3504
PRE	X 20 13 36 03.2	26.86S	26.77E	2	3.7L		
EIDC	X 20 13 36 03.3	26.9S	26.6E	0	4.1L,3.8b		
NEIC	Less reliable solution.						
ISC	**X 20 19 20 41**±1.9	**26.39S**±.068	**27.5E**±.11	**5**±14	**4.1b**	**16**	**1-88**
NEIC	X 20 19 20 41.6	26.34S	27.42E	5	4.5b		¶97x3550
EIDC	X 20 19 20 42.0	26.5S	27.3E	0	4.0b,4.2L		
PRE	X 20 19 20 42.2	26.39S	27.43E	2	3.8L		
NEIC	Less reliable solution.						
ISC	**X 21 14 35 30**±2.2	**27.6S**±.11	**27.7E**±.26	**2**		**6**	**1-3**
PRE	X 21 14 35 32.1	26.86S	26.78E	2	3.0L		¶97x3664
PRE	**X 24 13 41 28.3**	**27.01S**	**26.78E**	**2**	**3.6L**		¶97x4174
PRE	**X 26 07 34 30.7**	**27.94S**	**26.73E**	**2**	**3.0L**		¶97x4432
PRE	**X 28 18 23 34.4**	**27.97S**	**26.86E**	**2**	**3.0L**		¶97x4798
ISC	**X 29 20 53 17.6**±.91	**27.0S**±.11	**26.74E**±.091	**2**		**10**	**1-7**
PRE	X 29 20 53 18.2	26.81S	26.77E	2	3.4L		¶97x4950
PRE	**XI 01 20 05 09.2**	**26.38S**	**27.42E**	**2**	**3.2L**		¶97xi0134
ISC	**XI 02 06 27 09.5**±.96	**26.47S**±.075	**27.4E**±.12	**2**		**8**	**1-6**
PRE	XI 02 06 27 09.4	26.36S	27.51E	2	3.4L		¶97xi0208
ISC	**XI 05 10 51 33**±1.1	**26.41S**±.088	**27.4E**±.11	**2**		**8**	**1-6**
PRE	XI 05 10 51 33.8	26.38S	27.40E	2	3.3L		¶97xi0778
ISC	**XI 07 21 29 42**±1.1	**27.96S**±.088	**26.7E**±.18	**2**		**7**	**1-4**
PRE	XI 07 21 29 43.1	27.92S	26.67E	2	3.4L		¶97xi1172
PRE	**XI 10 15 27 20.0**	**26.96S**	**26.75E**	**2**	**3.1L**		¶97xi1626
ISC	**XI 12 05 49 07.3**±.80	**26.91S**±.082	**26.7E**±.11	**2**		**9**	**1-7**
PRE	XI 12 05 49 08.9	26.89S	26.70E	2	3.5		¶97xi1943
PRE	r						
ISC	**XI 20 00 31 47.4**±.84	**26.35S**±.071	**27.52E**±.097	**2**		**9**	**1-6**
PRE	XI 20 00 31 48.4	26.35S	27.46E	2	3.4L		¶97xi3351
PRE	**XI 22 00 58 43.1**	**26.85S**	**26.69E**	**2**	**3.2L**		¶97xi3768
PRE	**XI 25 12 59 30.2**	**26.35S**	**27.48E**	**2**	**3.1L**		¶97xi4512
ISC	**XI 29 17 33 58**±1.1	**26.29S**±.078	**28.8E**±.12	**2**	4.1b	**13**	**1-46**
PRE	XI 29 17 34 03.4	26.22S	28.30E	2	3.4L		¶97xi5297
EIDC	XI 29 17 34 03.6	26.2S	28.0E	0	3.6L,3.9b		
ISC	**XI 30 04 09 36.5**±.99	**26.88S**±.093	**26.9E**±.16	**2**		**6**	**1-3**
PRE	XI 30 04 09 38.4	26.86S	26.73E	2	3.2L		¶97xi5360
ISC	**XI 30 04 44 16**±1.0	**26.91S**±.093	**26.9E**±.16	**2**		**6**	**1-3**
PRE	XI 30 04 44 17.1	26.82S	26.76E	2	3.1L		¶97xi5365
PRE	**XII 10 16 20 53.8**	**26.36S**	**27.61E**	**2**	**3.0L**		¶97xii2388
ISC	**XII 11 05 29 46**±2.5	**26.90S**±.050	**26.66E**±.066	**7**±16	**4.5b**	**51**	**1-149**
NEIC	XII 11 05 29 45.2	26.91S	26.63E	5	4.9b		¶97xii2497
PRE	XII 11 05 29 46.2	26.86S	26.81E	2	4.2L		
EIDC	XII 11 05 29 46.8±.73	26.9S	26.6E	0	4.4b,4.9L		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=24.3km semi−minor=11.7km azimuth=115						
PRE	**XII 11 09 08 02.3**	**26.92S**	**26.70E**	**2**	**3.2L**		¶97xii2526
ISC	**XII 11 12 24 55**±1.0	**26.9S**±.12	**26.8E**±.25	**2**		**5**	**1-3**
PRE	XII 11 12 24 55.2	26.82S	26.74E	2	3.6L		¶97xii2560
ISC	**XII 11 15 07 52**±1.2	**26.9S**±.13	**26.8E**±.26	**2**		**4**	**1-2**
PRE	XII 11 15 07 52.4	26.83S	26.71E	2	3.2L		¶97xii2590
ISC	Poorly determined						
ISC	**XII 12 16 42 47**±2.3	**26.95S**±.051	**26.68E**±.061	**12**±14	**4.5b**	**58**	**1-149**
PRE	XII 12 16 42 46.3	26.93S	26.65E	2	4.3L		¶97xii2784
NEIC	XII 12 16 42 46.5	26.87S	26.50E	5	4.7b		
EIDC	XII 12 16 42 46.7±.79	27.0S	26.5E	0	4.3b,4.5L		
EIDC	Error ellipse is semi−major=24.2km semi−minor=13.1km azimuth=117						
ISC	**XII 13 03 13 46**±1.2	**26.3S**±.10	**27.4E**±.20	**5**	**4.2b**	**7**	**3-87**
NEIC	XII 13 03 13 46.1	26.32S	27.42E	5			¶97xii2868
EIDC	XII 13 03 13 46.9±1.25	26.3S	27.6E	0	4.1b,4.2L		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=34.8km semi−minor=18.2km azimuth=106						
ISC	**XII 14 00 51 50**±1.1	**26.38S**±.091	**27.5E**±.11	**2**		**6**	**1-3**
PRE	XII 14 00 51 51.3	26.36S	27.44E	2	3.2L		¶97xii3051
ISC	**XII 16 21 01 42**±1.0	**26.9S**±.10	**26.8E**±.14	**2**		**6**	**1-3**
PRE	XII 16 21 01 42.7	26.87S	26.76E	2	3.3L		¶97xii3501
ISC	**XII 17 14 30 50**±1.2	**26.40S**±.091	**27.7E**±.12	**2**		**6**	**1-3**
PRE	XII 17 14 30 51.3	26.37S	27.58E	2	3.0L		¶97xii3614
ISC	**XII 21 10 35 54.0**±.93	**26.34S**±.072	**27.5E**±.10	**2**		**9**	**1-10**
PRE	XII 21 10 35 55.5	26.34S	27.44E	2	3.4L		¶97xii4241

(585) Lesotho.

PRE	**VII 25 01 59 43.7**	**29.38S**	**27.79E**	**5**	**3.2L**		¶97vii3755

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DJA	**VII 22 03 10 04.3**	**12.3S**	**115.9E**	**33**	4.9L,4.5D		**4-4** ¶97vii3319
ISC	**VIII 20 18 16 53.2**±.92	**17.57S**±.070	**116.80E**±.092	**5**	3.8b	**20**	**5-30**
NEIC	VIII 20 18 16 55.9	17.56S	116.82E	33	3.8b		¶97viii3000
AUST	VIII 20 18 17 02.1	17.70S	117.02E	5	4.0L		
AUST	**VIII 30 18 55 27.7**	**18.30S**	**118.69E**	**5**	**3.3L**		¶97viii4524
AUST	**X 10 17 17 34.2**	**19.38S**	**116.79E**	**5**	**3.2L**		¶97x1778
AUST	**XI 20 01 44 17.4**	**18.39S**	**118.86E**	**5**	**3.3L**		¶97xi3362

(589) West of Australia.

AUST	**VIII 12 18 11 52.4**	**24.66S**	**111.13E**	**5**	**3.0L**		¶97viii1787

(590) Western Australia.

AUST	**VII 01 06 06 11.8**	**21.42S**	**115.64E**	**5**	**3.2L**		¶97vii0037
ISC	**VII 08 21 34 33**±1.7	**28.40S**±.059	**114.3E**±.19	**10**	4.2b,3.3s	**19**	**2-24**
NEIC	VII 08 21 34 30.9	28.41S	113.88E	10	4.3b		¶97vii1238
AUST	VII 08 21 34 38.2	28.47S	114.33E	5	4.2L		
EIDC	VII 08 21 34 47.8	27.4S	115.6E	0	4.2L,3.3s		
NEIC	Less reliable solution.						
ISC	**VII 10 01 39 16**±1.2	**31.9S**±.11	**119.7E**±.11	**10**		**7**	**2-5**
NEIC	VII 10 01 39 15.9	31.91S	119.68E	10			¶97vii1428
NEIC	Single network solution.						
ISC	**VII 23 18 29 41.4**±.78	**22.13S**±.094	**126.57E**±.074	**10**		**11**	**4-17**
NEIC	VII 23 18 29 41.8	22.18S	126.55E	10	3.6b		¶97vii3565
EIDC	VII 23 18 29 42.6	22.7S	126.5E	0	3.7L		
AUST	VII 23 18 29 48.7	22.11S	126.54E	5	3.6L		
NEIC	Less reliable solution.						
ISC	**VII 29 07 42 50.5**±.51	**28.32S**±.068	**125.79E**±.052	**5**		**20**	**2-19**
NEIC	VII 29 07 42 50.8	28.36S	125.80E	10			¶97vii4400
AUST	VII 29 07 42 56.4	28.45S	125.80E	5	4.2L		
EIDC	VII 29 07 43 01.4	28.5S	126.8E	0	4.2L		
ISC	**VII 29 23 03 41**±1.4	**28.7S**±.22	**126.0E**±.18	**33**		**7**	**3-12** ¶97vii4499
AUST	**VII 31 19 14 10.6**	**17.32S**	**123.28E**	**5**	**3.0L**		¶97vii4778
ISC	**VIII 03 01 17 29**±3.0	**28.8S**±.21	**116.6E**±.43	**33**		**5**	**2-9** ¶97viii0280
ISC	**VIII 10 09 20 31.1**±.17	**16.05S**±.031	**124.42E**±.037	**10**	**5.8b,5.9s**	**509**	**2-170**
EIDC	VIII 10 09 20 30.6	16.1S	124.4E	0	5.6b,5.8s		¶97viii1378
BJI	VIII 10 09 20 30.8	16.10S	124.52E	15	5.7b,5.9s		
NEIC	VIII 10 09 20 30.9	16.01S	124.33E	10	5.9b,6.0s		
AUST	VIII 10 09 20 31.0	15.92S	124.27E	10	6.0L		
MOS	VIII 10 09 20 31.9	15.9S	124.5E	10	6.2b,5.7s		
HRVD	VIII 10 09 20 38.0±.1	15.98S±.01	124.48E±.01	15			
NEIC	Me6.6(GS), Mw6.3(GS).						
NEIC	Radiated energy from the P−wave first−motion solution: 2.1±0.6×10^{14}Nm/8						
NEIC	Mw 6.2 (HRV). Ms 6.0 (BRK). Felt in many parts of northwestern Australia.						
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S205°,δ75°,λ165°. NP2:ϕ_S299°,δ76°,λ16°. Principal axes: T Plg21°,Azm162°; P Plg0°,Azm72°. Depth from synthetics of broadband displacement seismograms.						
NEIC	Moment tensor solution: s19, scale 10^{18}Nm; M_{rr}−0.01; $M_{\theta\theta}$1.95; $M_{\phi\phi}$−1.94; $M_{r\theta}$−0.57; $M_{r\phi}$−0.64; $M_{\theta\phi}$1.71. Depth 12km; Principal axes: T 2.81,Plg15°,Azm158°; N −0.15,Plg72°, Azm10°; P −2.65,Plg9°,Azm251°. Best double couple: M_O2.7×10^{18}Nm; NP1:ϕ_S295°,δ73°, λ4°. NP2:ϕ_S204°,δ86°,λ163°.						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c121; Mantle waves: s49,c93; Half duration: 3s0. Moment tensor: Scale 10^{18}Nm; M_{rr}0.33±.02; $M_{\theta\theta}$1.39±.01; $M_{\phi\phi}$−1.72±.02; $M_{r\theta}$−1.21±.06; $M_{r\phi}$−0.91±.06; $M_{\theta\phi}$1.38±.01. Principal Axes: T 2.79,Plg31°,Azm156°; N −0.46,Plg57°,Azm0°; P −2.33,Plg11°,Azm253°. Best double couple: $M_0$2.6×10^{18}Nm, NP1:ϕ_S299°,δ60°,λ15°. NP2:ϕ_S201°,δ77°,λ149°.

ISC	**VIII**	**10 12 31 47**±2.3	**15.9S**±.17	**124.3E**±.15	**10**	3.6b	**14**	**3-22**
NEIC	VIII	10 12 31 46.4	15.94S	124.26E	10	4.0b		¶97viii1394
AUST	VIII	10 12 31 52.0	15.29S	124.23E	7	3.5L		
EIDC	VIII	10 12 32 02.3	16.3S	125.3E	0	3.9L,3.6b		
NEIC	Less reliable solution.							
ISC	**VIII**	**11 14 12 28**±1.7	**15.9S**±.15	**124.2E**±.11	**20**	3.8b	**15**	**3-22**
NEIC	VIII	11 14 12 29.1	15.88S	124.21E	33	3.9b		¶97viii1574
AUST	VIII	11 14 12 32.1	15.71S	124.15E	20	3.8L		
EIDC	VIII	11 14 12 40.0	16.3S	125.1E	0	3.9L,3.7b		
NEIC	Less reliable solution.							
AUST	**VIII**	**14 08 55 08.2**	**16.04S**	**124.28E**	**6**	**3.2L**		¶97viii2033
AUST	**VIII**	**17 13 05 35.3**	**17.15S**	**121.78E**	**5**	**3.1L**		¶97viii2545
ISC	**VIII**	**30 12 44 32**±1.5	**31.40S**±.075	**117.9E**±.12	**13**±12		**9**	**0-9**
NEIC	VIII	30 12 44 32.1	31.39S	117.88E	10			¶97viii4480
ISC	**VIII**	**30 12 51 20**±1.5	**31.40S**±.095	**117.8E**±.13	**15**±13		**7**	**0-9**
NEIC	VIII	30 12 51 19.6	31.39S	117.84E	10			¶97viii4482
NEIC	Single network solution.							
ISC	**VIII**	**30 19 41 53**±2.2	**31.4S**±.13	**117.7E**±.42	**11**±21		**5**	**0-3**
NEIC	VIII	30 19 41 52.6	31.44S	117.71E	10			¶97viii4528
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**VIII**	**30 19 45 14**±2.8	**31.4S**±.13	**117.8E**±.43	**14**±17		**5**	**0-3**
NEIC	VIII	30 19 45 14.1	31.43S	117.71E	10			¶97viii4530
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**VIII**	**31 08 00 56**±1.2	**31.43S**±.077	**117.8E**±.12	**16**±15		**8**	**0-9**
NEIC	VIII	31 08 00 55.4	31.41S	117.83E	10			¶97viii4610
ISC	**VIII**	**31 08 11 14**±1.8	**31.4S**±.13	**117.7E**±.40	**11**±25		**5**	**0-3**
NEIC	VIII	31 08 11 14.3	31.44S	117.67E	10			¶97viii4617
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**VIII**	**31 15 23 47**±1.8	**31.35S**±.063	**117.96E**±.078	**6**±14	**4.1b**	**24**	**0-149**
NEIC	VIII	31 15 23 48.1	31.41S	117.85E	10	4.1b		¶97viii4673
EIDC	VIII	31 15 23 49.3	30.7S	117.9E	0	3.9b,4.3L		
AUST	VIII	31 15 23 50.3	31.45S	117.68E	5	4.6L		
ISC	**VIII**	**31 15 50 28**±1.7	**31.34S**±.066	**117.97E**±.074	**10**±14		**17**	**0-20**
NEIC	VIII	31 15 50 27.9	31.36S	117.99E	10	3.2b		¶97viii4675
AUST	VIII	31 15 50 31.7	31.45S	117.68E	5	3.6L		
EIDC	VIII	31 15 50 39.2	30.9S	118.9E	0	3.6L		
ISC	**VIII**	**31 16 42 35**±2.5	**31.4S**±.13	**117.7E**±.42	**13**±18		**5**	**0-3**
NEIC	VIII	31 16 42 35.1	31.44S	117.70E	10			¶97viii4680
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**VIII**	**31 19 01 38**±2.6	**31.5S**±.11	**117.6E**±.21	**2**±34		**5**	**0-3**
NEIC	VIII	31 19 01 38.1	31.48S	117.65E	10			¶97viii4694
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**VIII**	**31 21 22 32**±2.1	**31.4S**±.13	**117.7E**±.41	**12**±22		**5**	**0-3**
NEIC	VIII	31 21 22 31.8	31.44S	117.70E	10			¶97viii4710
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**VIII**	**31 21 23 13**±1.6	**31.5S**±.10	**117.7E**±.22	**12**±16		**5**	**0-5**
NEIC	VIII	31 21 23 13.0	31.44S	117.73E	10			¶97viii4711
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**IX**	**01 09 48 30.9**±.60	**18.07S**±.059	**122.99E**±.055	**5**	3.9b	**26**	**3-25**
EIDC	IX	01 09 48 28.2	17.7S	122.7E	0	4.6L,4.0b		¶97ix0090
NEIC	IX	01 09 48 33.2	18.09S	123.04E	10	4.3b		
AUST	IX	01 09 48 37.1	18.12S	123.14E	5	4.5L		
NEIC	Less reliable solution.							
ISC	**IX**	**03 05 12 51**±1.7	**31.34S**±.059	**117.94E**±.070	**8**±14	4.1b,3.0s	**22**	**0-149**
NEIC	IX	03 05 12 51.2	31.34S	117.95E	10	4.0b		¶97ix0383
EIDC	IX	03 05 12 53.6	30.7S	117.9E	0	4.2L,4.1b		
AUST	IX	03 05 12 54.4	31.45S	117.67E	5	4.2L		
ISC	**IX**	**03 07 02 20**±1.2	**31.5S**±.11	**117.6E**±.15	**10**		**5**	**0-3**
NEIC	IX	03 07 02 20.2	31.49S	117.64E	10			¶97ix0392
NEIC	Single network solution.							
ISC	**IX**	**03 10 04 49**±1.2	**31.5S**±.11	**117.7E**±.15	**10**		**5**	**0-3**
NEIC	IX	03 10 04 48.6	31.51S	117.66E	10			¶97ix0416
NEIC	Single network solution.							
ISC	**IX**	**04 18 59 22**±1.1	**31.53S**±.098	**117.6E**±.11	**5**		**5**	**0-3**
NEIC	IX	04 18 59 22.1	31.53S	117.61E	5			¶97ix0622
NEIC	Single network solution.							
ISC	**IX**	**11 16 19 34**±5.9	**31.0S**±.40	**126.2E**±.46	**5**		**5**	**4-9**
AUST	IX	11 16 19 38.8	30.97S	126.26E	5	3.0L		¶97ix1699
ISC	**IX**	**11 16 41 36.0**±.85	**31.46S**±.077	**117.55E**±.091	**5**	4.6b	**11**	**0-50**
EIDC	IX	11 16 41 18.4	31.1S	114.8E	0	4.1b,3.3L		¶97ix1703
AUST	IX	11 16 41 36.2	31.44S	117.70E	5	3.0L		
AUST	**IX**	**11 16 41 50.8**	**31.44S**	**117.68E**	**5**	**3.3L**		¶97ix1706
ISC	**IX**	**11 16 45 44**±2.5	**31.4S**±.13	**117.7E**±.42	**13**±19		**5**	**0-3**
NEIC	IX	11 16 45 44.0	31.42S	117.71E	10			¶97ix1707
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**IX**	**11 16 54 03**±1.7	**31.40S**±.090	**117.8E**±.20	**14**±14		**6**	**0-5**
NEIC	IX	11 16 54 03.0	31.38S	117.78E	10			¶97ix1708
NEIC	Single network solution.							
ISC	**IX**	**11 17 45 11**±1.8	**31.4S**±.13	**117.7E**±.39	**8**±29		**5**	**0-3**
NEIC	IX	11 17 45 11.3	31.44S	117.69E	10			¶97ix1714
ISC	Poorly determined							
NEIC	Single network solution.							
ISC	**IX**	**12 00 08 19**±1.5	**31.38S**±.068	**117.76E**±.092	**11**±13		**10**	**0-10**
NEIC	IX	12 00 08 18.5	31.37S	117.77E	10			¶97ix1750
AUST	IX	12 00 08 20.4	31.45S	117.67E	5	3.7L		
ISC	**IX**	**12 18 22 25**±5.2	**21.0S**±.29	**114.8E**±.42	**33**		**9**	**2-18**
								¶97ix1856
ISC	**IX**	**12 18 54 49**±2.8	**31.4S**±.13	**117.8E**±.43	**14**±18		**5**	**0-3**
NEIC	IX	12 18 54 49.2	31.40S	117.71E	10			¶97ix1861
ISC	Poorly determined							
NEIC	Less reliable solution.							
ISC	**IX**	**15 12 18 00**±1.9	**31.5S**±.13	**117.6E**±.38	**8**±32		**5**	**0-3**
NEIC	IX	15 12 18 00.3	31.45S	117.66E	10			¶97ix2243
ISC	Poorly determined							
NEIC	Less reliable solution.							
ISC	**IX**	**18 19 09 16**±1.7	**31.39S**±.073	**117.7E**±.19	**10**±14		**7**	**0-5**
NEIC	IX	18 19 09 16.2	31.39S	117.75E	10			¶97ix2699
NEIC	Single network solution.							
AUST	**X**	**02 09 33 16.9**	**23.05S**	**114.93E**	**5**	**3.0L**		¶97x0249
ISC	**XI**	**08 11 01 55**±1.0	**31.44S**±.093	**117.3E**±.13	**33**		**6**	**1-5**
								¶97xi1268
ISC	**XI**	**11 12 26 17**±1.3	**16.3S**±.16	**127.9E**±.14	**5**		**7**	**1-13**
NEIC	XI	11 12 26 17.1	16.62S	128.23E	10			¶97xi1786
AUST	XI	11 12 26 20.3	16.50S	128.17E	5	3.5L		
NEIC	Less reliable solution.							
EIDC	**XI**	**14 07 09 18.8**	**20.2S**	**128.0E**	**0**	2.2L		¶97xi2254
ISC	**XI**	**19 14 26 45**±4.5	**22.7S**±.19	**112.6E**±.40	**5**		**12**	**3-20**
NEIC	XI	19 14 26 45.4	22.69S	112.62E	10	3.7b		¶97xi3238
AUST	XI	19 14 26 49.7	22.58S	112.49E	5	3.7L		
NEIC	Poor solution.							
ISC	**XI**	**23 04 20 57**±6.0	**16.8S**±.73	**128.5E**±.15	**33**		**4**	**3-19**
EIDC	XI	23 04 20 56.7	17.1S	128.4E	0	2.9L		¶97xi4028
ISC	Poorly determined							
ISC	**XI**	**24 11 39 27**±1.3	**31.70S**±.087	**117.1E**±.10	**23**±19		**8**	**1-10**
NEIC	XI	24 11 39 26.0	31.70S	117.07E	10			¶97xi4310
AUST	XI	24 11 39 27.3	31.70S	117.05E	7	3.0L		
NEIC	Single network solution.							
ISC	**XI**	**24 11 40 38**±1.3	**31.64S**±.088	**117.1E**±.11	**21**±18		**7**	**1-10**
NEIC	XI	24 11 40 37.4	31.68S	117.07E	10			¶97xi4312
AUST	XI	24 11 40 38.9	31.70S	117.04E	5	3.2L		
NEIC	Single network solution.							
ISC	**XII**	**07 17 50 09**±1.2	**31.00S**±.070	**116.5E**±.16	**5**		**5**	**0-2**
AUST	XII	07 17 50 09.9	30.99S	116.49E	5	3.0L		¶97xii1749
ISC	**XII**	**08 17 38 34**±2.6	**30.73S**±.081	**117.2E**±.16	**9**±22		**6**	**0-4**
NEIC	XII	08 17 38 34.5	30.73S	117.20E	10			¶97xii1975
NEIC	Single network solution.							
AUST	**XII**	**14 18 36 08.7**	**23.94S**	**112.98E**	**5**	**3.3L**		¶97xii3177
ISC	**XII**	**23 10 10 58**±5.8	**21.8S**±.33	**115.0E**±.52	**5**		**6**	**1-11**
AUST	XII	23 10 11 02.5	21.88S	115.06E	5	3.4L		¶97xii4581
ISC	**XII**	**28 15 56 46**±4.8	**32.5S**±.24	**122.6E**±.43	**5**		**5**	**4-12**
AUST	XII	28 15 56 52.7	32.62S	122.31E	5	3.0L		¶97xii5473

(591) Northern Territory, Australia.

EIDC	**VII**	**29 05 42 02.5**	**12.8S**	**130.2E**	**0**	4.2L,3.6b		**7-22**
								¶97vii4387
ISC	**VIII**	**06 22 59 25**±2.4	**19.9S**±.12	**133.81E**±.091	**4**±22		**10**	**0-19**
NEIC	VIII	06 22 59 25.1	19.90S	133.84E	10			¶97viii0850
AUST	VIII	06 22 59 28.8	19.80S	134.01E	5	3.4L		
EIDC	VIII	06 22 59 29.0	19.9S	134.0E	0	3.8L		
NEIC	Less reliable solution.							
EIDC	**XI**	**20 07 46 28.4**	**19.9S**	**133.9E**	**0**	2.6L		¶97xi3416
ISC	**XI**	**21 15 28 06.1**±.84	**19.84S**±.089	**133.86E**±.073	**10**		**8**	**0-14**
NEIC	XI	21 15 28 05.8	19.88S	133.85E	10			¶97xi3678

(592) South Australia.

EIDC	**XI**	**25 05 59 58.2**	**30.6S**	**138.5E**	**0**	**2.5L**		¶97xi4455
EIDC	**XII**	**04 05 00 01.8**±2.31	**29.9S**	**138.8E**	**0**	**2.6L**		**3-11**
EIDC	Error ellipse is semi-major=57.3km semi-minor=17.5km azimuth=49							¶97xii0561

(594) Queensland.

ISC	**VII**	**08 23 19 05**±4.2	**22.4S**±.14	**147.8E**±.43	**33**		**4**	**3-13**
EIDC	VII	08 23 19 01.4	22.3S	148.0E	0	3.6L		¶97vii1248
ISC	Poorly determined							
EIDC	**VII**	**14 09 59 16.8**	**20.7S**	**139.1E**	**0**	**2.7L**		**5-11**
								¶97vii2099
ISC	**VII**	**24 12 59 35**±2.6	**23.0S**±.19	**149.3E**±.28	**33**	3.8b	**4**	**11-60**
EIDC	VII	24 12 59 33.1	22.8S	149.3E	0	3.4L,3.8b		¶97vii3671
ISC	Poorly determined							
ISC	**VII**	**30 15 30 01.8**±.69	**28.06S**±.073	**142.51E**±.077	**10**		**11**	**4-14**
NEIC	VII	30 15 30 01.8	28.05S	142.54E	10			¶97vii4594
AUST	VII	30 15 30 03.4	28.09S	142.60E	11	3.2L		
NEIC	Single network solution.							
EIDC	**IX**	**17 00 14 29.4**	**22.0S**	**148.3E**	**0**	**3.7L**		¶97ix2448
ISC	**X**	**03 01 08 41**±2.7	**22.8S**±.12	**147.2E**±.30	**10**	4.6b	**5**	**3-28**
NEIC	X	03 01 08 41.1	22.78S	147.16E	10			¶97x0365
EIDC	X	03 01 08 41.2	22.7S	147.3E	0	3.5L		
NEIC	Single network solution.							
EIDC	**X**	**07 01 49 41.9**	**22.3S**	**148.0E**	**0**	**3.3L**		¶97x1154
ISC	**X**	**22 04 01 54**±2.6	**22.4S**±.13	**146.6E**±.28	**33**		**4**	**2-12**
EIDC	X	22 04 01 53.6	22.4S	146.7E	0	3.3L		¶97x3749
ISC	Poorly determined							
EIDC	**XII**	**04 03 30 07.1**±3.60	**22.8S**	**147.6E**	**0**	**3.2L**		**3-13**
EIDC	Error ellipse is semi-major=36.2km semi-minor=19.1km azimuth=95							¶97xii0549

(596) South of Solomon Islands.

EIDC	**VII**	**29 19 56 09.0**	**16.5S**	**159.6E**	**0**	**3.8b**		**14-91**
								¶97vii4474
EIDC	**IX**	**17 00 42 13.8**	**16.5S**	**161.9E**	**0**	**4.1b**		¶97ix2451
EIDC	**X**	**09 06 23 45.3**	**16.6S**	**159.6E**	**0**	**3.8b**		¶97x1539
EIDC	**X**	**20 10 57 41.2**	**16.7S**	**159.6E**	**0**	**3.6b**		¶97x3487
EIDC	**XI**	**05 05 36 21.5**	**16.9S**	**161.7E**	**0**	**3.8b**		¶97xi0736
EIDC	LO CONF Location							
EIDC	**XI**	**27 05 12 14.0**	**15.1S**	**159.8E**	**0**	**3.6b**		¶97xi4801
EIDC	**XII**	**24 01 57 28.9**	**16.0S**	**161.6E**	**0**	**3.8b**		**24-27**
								¶97xii4685
EIDC	Origin time error = 37.64Error ellipse is semi-major=614.1km semi-minor=95.4km azimuth=64							

(597) New Caledonia region.

EIDC	**VII**	**14 07 47 40.5**	**21.9S**	**159.8E**	**0**	3.1b,3.6L		**19-24**
								¶97vii2082
EIDC	**VIII**	**28 16 21 42.9**	**20.2S**	**159.6E**	**0**	3.8b,3.6L		**13-24**
								¶97viii4163

(600) Near south coast of Australia.

ISC	**VII**	**21 15 10 38**±1.0	**32.7S**±.14	**137.65E**±.083	**10**		**9**	**1-19**
AUST	VII	21 15 10 43.4	32.69S	137.79E	10	3.8L		¶97vii3254
EIDC	**IX**	**08 15 28 49.0**	**32.1S**	**138.8E**	**0**	**3.1L**		¶97ix1241
EIDC	**IX**	**20 19 39 33.8**	**34.3S**	**135.0E**	**0**	**2.9L**		¶97ix2994
AUST	**XII**	**26 08 03 55.8**	**33.76S**	**138.32E**	**10**	**3.2L**		¶97xii5081

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °

(601) New South Wales.

AUST	**VII**	**26 06 33 32.7**	**31.99S**	**141.43E**	**0**	**3.1L**		**¶97vii3930**
ISC	**VIII**	**23 00 12 41.6**±.84	**34.60S**±.071	**148.20E**±.095	**14**		**8**	**0-6**
AUST	VIII	23 00 12 41.7	34.60S	148.29E	14	3.1L		**¶97viii3309**
AUST	**X**	**12 14 50 59.9**	**31.97S**	**149.49E**	**0**	**3.2L**		**¶97x2058**

(604) Near east coast of Australia.

ISC	**VII**	**08 10 01 22**±9.2	**31.6S**±.19	**153.1E**±.91	**10**		**4**	**2-6**
AUST	VII	08 10 01 22.4	31.59S	153.06E	10	3.7L		**¶97vii1171**
ISC	Poorly determined							

(605) East of Australia.

EIDC	**VII**	**14 06 46 13.4**	**23.3S**	**153.7E**	**0**	**3.6L**		**14-18**
								¶97vii2077

(607) North-west of New Zealand.

EIDC	**X**	**02 06 17 58.0**	**33.7S**	**166.0E**	**0**	**4.2b**		**¶97x0221**

(609) Tasmania region.

ISC	**VIII**	**23 17 30 36.0**±.67	**41.65S**±.060	**146.4E**±.17	**5**	**3.9b,**3.6s	**24**	**4-148**
AUST	VIII	23 17 30 37.1	41.54S	146.41E	5	4.2L		**¶97viii3428**
NEIC	VIII	23 17 30 37.1	41.60S	146.36E	10	4.0b		
EIDC	VIII	23 17 30 38.0	41.8S	145.7E	0	3.7b,4.1L		

(610) South-east of Australia.

AUST	**XII**	**24 14 43 04.4**	**40.31S**	**155.22E**	**13**	**3.5L**		**¶97xii4774**

SEISMIC REGION 39.
PACIFIC BASIN.

(611) North Pacific Ocean.

EIDC	**VII**	**14 19 08 15.4**	**42.7N**	**152.3E**	**0**	**3.3b,**3.4L		**12-127**
								¶97vii2192
EIDC	**VII**	**23 14 40 53.8**	**22.9N**	**146.2E**	**0**	**3.6b**		**44-60**
								¶97vii3545
EIDC	**VIII**	**06 05 55 02.7**	**23.1N**	**146.6E**	**0**	3.5b,4.3L		**15-48**
								¶97viii0759
EIDC	**IX**	**22 12 23 17.1**	**22.6N**	**145.2E**	**0**	**3.7b**		**¶97ix3276**
ISC	**X**	**05 09 10 27.3**±.61	**15.83N**±.062	**155.1E**±.16	**33**	**4.4b**	**28**	**25-150**
BJI	X	05 09 10 26.1	15.80N	155.10E	33	4.3b		**¶97x0842**
NEIC	X	05 09 10 27.1	15.83N	155.11E	33	4.8b		
EIDC	X	05 09 10 27.7	15.9N	155.3E	33	4.2b		
NEIC	Less reliable solution.							
EIDC	**X**	**13 11 31 11.4**	**22.4N**	**146.3E**	**0**	3.6b,4.6L		**¶97x2208**
EIDC	**XII**	**10 14 08 06.7**±1.40	**17.2N**	**150.4E**	**0**	**3.6b**		**40-77**
								¶97xii2367

EIDC Error ellipse is semi−major=584.6km semi−minor=21.9km azimuth=115

(613) Hawaiian Islands.

ISC	**VIII**	**15 01 54 37**±1.4	**19.47N**±.069	**155.22W**±.052	**3**±9.3	**4.6b**	**70**	**0-93**
BJI	VIII	15 01 54 35.1	19.29N	154.77W	5	5.0b		**¶97viii2143**
NEIC	VIII	15 01 54 37.8	19.37N	155.14W	10	4.6b		
EIDC	VIII	15 01 54 37.8	19.4N	155.1W	0	4.4b		
NEIC	Felt throughout the Island of Hawaii.							
ISC	**X**	**16 17 11 14**±1.2	**19.7N**±.17	**155.9W**±.19	**33**	**3.5b**	**10**	**0-80**
EIDC	X	16 17 11 10.9	19.6N	155.9W	0	3.6b		**¶97x2860**
ISC	**X**	**26 13 36 01.9**±.48	**19.39N**±.058	**155.49W**±.056	**31**		**19**	**0-3**
NEIC	X	26 13 36 02.9	19.30N	155.35W	31			**¶97x4467**
NEIC	MD4.2(HVO). Felt, After HVO.							
NEIC	Felt in many parts of the Island of Hawaii including Fern Forest, Glenwood, Hilo, Holualoa, Honokaa, Kurtistown, Mauna Loa Estates, Orchidland Estates and Paauilo.							

(614) Caroline Islands region.

EIDC	**VII**	**23 04 31 41.9**	**10.7N**	**146.1E**	**0**	**4.2b**		**27-43**
								¶97vii3482
ISC	**IX**	**25 06 51 10**±1.5	**10.2N**±.33	**148.2E**±.88	**33**	**3.7b**	**4**	**33-96**
EIDC	IX	25 06 51 06.8	10.4N	147.8E	0	3.8b		**¶97ix3696**
ISC	Poorly determined							
ISC	**X**	**22 11 31 56.1**±.57	**8.02N**±.078	**147.4E**±.14	**33**	**4.2b,3.8s**	**17**	**6-95**
EIDC	X	22 11 31 52.4	7.9N	147.8E	0	4.2b,3.8s		**¶97x3802**
NEIC	X	22 11 31 56.1	8.04N	147.39E	33	4.6b		
NEIC	Less reliable solution.							
ISC	**XI**	**08 09 54 59**±3.6	**5.8N**±.19	**144.5E**±.95	**33**	**3.7b**	**6**	**27-43**
EIDC	XI	08 09 55 28.1	2.0N	144.3E	0	3.7b		**¶97xi1250**
EIDC	**XII**	**15 12 45 50.1**±1.54	**2.5N**	**158.2E**	**0**	**3.4b**		**32-90**
								¶97xii3288

EIDC Error ellipse is semi−major=182.9km semi−minor=24.2km azimuth=127

(620) Line Islands region.

ISC	**X**	**11 20 32 06.2**±.40	**2.19N**±.098	**154.62W**±.079	**33**	**4.7b,**3.7s	**65**	**47-154**
BJI	X	11 20 32 06.0	2.20N	154.60W	33	4.7b		**¶97x1937**
NEIC	X	11 20 32 06.0	2.17N	154.59W	33	4.9b		
EIDC	X	11 20 32 07.1	2.1N	154.6W	28	4.4b,3.7s		

(626) Northern Cook Islands.

EIDC	**VII**	**24 14 51 17.0**	**13.7S**	**164.3W**	**0**	**3.8b**		**52-59**
								¶97vii3684

(627) Cook Islands region.

EIDC	**VIII**	**28 09 26 14.6**	**16.5S**	**161.8W**	**0**	**4.2b**		**45-60**
								¶97viii4110
EIDC	**IX**	**09 17 45 38.0**	**23.3S**	**158.8W**	**0**	**3.8b**		**¶97ix1418**
EIDC	**IX**	**24 23 32 41.6**	**18.9S**	**163.9W**	**0**	**4.1b**		**¶97ix3651**
EIDC	LO CONF Location							
EIDC	**IX**	**28 16 00 49.9**	**15.3S**	**160.3W**	**0**	**3.8b**		**¶97ix4693**
EIDC	LO CONF Location							

(628) Society Islands region.

EIDC	**X**	**25 22 06 45.2**	**17.3S**	**155.0W**	**0**	3.9b		**¶97x4379**

(632) South Pacific Ocean.

EIDC	**VII**	**16 09 11 32.1**	**24.4S**	**169.2W**	**0**	**3.8b**		**44-52**
								¶97vii2412
EIDC	**VII**	**28 20 58 50.2**	**30.8S**	**169.9W**	**0**	**3.9b**		**41-51**
								¶97vii4327
EIDC	**IX**	**17 15 53 56.8**	**25.5S**	**166.4W**	**0**	**3.8b**		**¶97ix2528**
EIDC	LO CONF							
EIDC	**IX**	**23 14 56 17.7**	**27.8S**	**164.2W**	**0**	**3.5b**		**¶97ix3438**
EIDC	LO CONF Location							
EIDC	**X**	**02 00 13 37.1**	**31.7S**	**169.0W**	**0**	**4.2b**		**¶97x0178**
ISC	**X**	**15 20 23 08.8**±.26	**21.43S**±.050	**129.85W**±.072	**10**	**5.3b,4.6s**	**186**	**20-153**
EIDC	X	15 20 23 08.3	21.4S	130.0W	0	5.0b		**¶97x2706**
BJI	X	15 20 23 08.5	21.50S	129.80W	10			
NEIC	X	15 20 23 08.5	21.46S	129.81W	10	5.3b,4.5s		
EIDC	**X**	**20 16 11 17.4**	**30.3S**	**167.3W**	**0**	**3.8b**		**¶97x3525**
EIDC	LO CONF							
ISC	**X**	**28 20 35 48**±1.0	**21.3S**±.26	**130.0W**±.25	**10**	**3.9b**	**7**	**56-145**
EIDC	X	28 20 35 47.9	21.3S	130.0W	0	3.8b		**¶97x4812**
ISC	**XI**	**14 12 09 40.4**±.59	**36.7S**±.15	**129.0W**±.21	**10**	**4.5b,4.2s**	**42**	**57-151**
NEIC	XI	14 12 09 40.0	36.75S	128.98W	10	4.7b		**¶97xi2287**
EIDC	XI	14 12 09 43.0	36.6S	129.1W	20	4.2b,4.2s		
BJI	XI	14 12 09 44.0	36.70S	129.00W	10			
NEIC	Less reliable solution.							
EIDC	**XII**	**25 21 41 09.4**	**29.2S**	**169.9W**	**0**	**3.9b**		**42-51**
								¶97xii4991

EIDC Origin time error = 81.72Error ellipse is semi−major=1622.1km semi−minor=243.2km azimuth=100LO CONF Location

SEISMIC REGION 40.
ARCTIC ZONE.

(635) Near north coast of Greenland.

ISC	**VII**	**23 11 09 49**±9.1	**81.5N**±.15	**15.4W**±.89	**3**±56	**3.7b**	**8**	**5-98**
NEIC	VII	23 11 09 50.0	81.48N	15.29W	10			**¶97vii3521**
EIDC	VII	23 11 09 50.5	81.4N	15.6W	0	3.5b,4.3L		
NEIC	Less reliable solution.							

(636) Eastern Greenland.

ISC	**VIII**	**20 18 59 14**±8.9	**79.1N**±.13	**18.3W**±.48	**13**±57	**3.8b**	**12**	**2-123**
NEIC	VIII	20 18 59 13.5	79.02N	18.38W	10	3.8b		**¶97viii3002**
EIDC	VIII	20 18 59 14.2	79.1N	18.2W	0	3.7b,3.9L		
NEIC	Less reliable solution.							
ISC	**XI**	**27 09 29 50.4**±.46	**70.02N**±.090	**21.4W**±.16	**10**	**4.0b,**3.6s	**26**	**7-131**
NEIC	XI	27 09 29 50.0	70.04N	21.45W	10	4.4b		**¶97xi4838**
EIDC	XI	27 09 29 50.4	70.0N	21.5W	0	3.9b,3.6L		

(637) Iceland region.

ISC	**VII**	**22 16 06 24.9**±.72	**66.3N**±.12	**19.4W**±.24	**10**	**3.4b**	**9**	**2-61**
NEIC	VII	22 16 06 24.5	66.26N	19.34W	10			**¶97vii3392**
EIDC	VII	22 16 06 24.6	66.2N	19.4W	0	3.4b,3.7L		
NEIC	Single network solution.							
ISC	**VII**	**22 16 21 41.3**±.16	**66.31N**±.028	**18.40W**±.061	**10**	**4.7b,4.6s**	**255**	**2-156**
EIDC	VII	22 16 21 40.3	66.2N	18.5W	0	4.6b,4.4s		**¶97vii3393**
MOS	VII	22 16 21 40.7	66.3N	18.5W	10	5.0b,4.6s		
NEIC	VII	22 16 21 41.0	66.29N	18.40W	10	4.7b,4.6s		
BJI	VII	22 16 21 43.3	66.67N	17.58W	16	4.7b,5.0s		
ISC	**VII**	**22 16 41 22.6**±.71	**66.3N**±.12	**18.7W**±.24	**10**	**3.7b**	**9**	**2-66**
NEIC	VII	22 16 41 22.2	66.27N	18.60W	10	4.1b		**¶97vii3396**
EIDC	VII	22 16 41 22.5	66.2N	18.7W	0	3.6b,3.7L		
NEIC	Less reliable solution.							
ISC	**VIII**	**24 03 04 22.9**±.19	**63.94N**±.045	**21.29W**±.065	**10**	**4.7b,4.2s**	**214**	**1-144**
BJI	VIII	24 03 04 21.7	63.91N	21.43W	13	5.0b		**¶97viii3476**
NEIC	VIII	24 03 04 22.5	64.00N	21.27W	10	4.8b,4.1s		
EIDC	VIII	24 03 04 22.7	64.1N	21.2W	0	4.3b,4.3s		
ISC	**IX**	**20 15 38 17.7**±.26	**66.30N**±.046	**18.45W**±.084	**10**	**4.5b,3.9s**	**107**	**2-144**
NEIC	IX	20 15 38 17.7	66.22N	18.51W	10	4.5b,3.7s		**¶97ix2954**
EIDC	IX	20 15 38 18.6	66.4N	18.4W	0	4.3b,4.0L		
ISC	**IX**	**20 15 51 49.6**±.26	**66.25N**±.041	**18.34W**±.084	**10**	**4.5b,4.2s**	**149**	**2-145**
NEIC	IX	20 15 51 49.3	66.24N	18.37W	10	4.6b		**¶97ix2957**
EIDC	IX	20 15 51 49.8	66.2N	18.4W	0	4.1b,4.2L		
ISC	**IX**	**23 23 20 49.7**±.63	**62.3N**±.11	**26.6W**±.17	**10**	**4.1b,**3.3s	**23**	**3-89**
NEIC	IX	23 23 20 48.6	62.11N	26.49W	10	4.4b		**¶97ix3496**
EIDC	IX	23 23 20 49.0	62.1N	26.5W	0	3.9b,3.4s		
NEIC	Less reliable solution.							
ISC	**IX**	**24 06 41 31.2**±.63	**62.14N**±.086	**26.3W**±.17	**10**	**4.2b,3.6s**	**27**	**3-144**
NEIC	IX	24 06 41 30.8	62.09N	26.26W	10	4.5b		**¶97ix3537**
EIDC	IX	24 06 41 31.9	62.2N	26.4W	0	3.8b,3.7s		
NEIC	Less reliable solution.							
ISC	**IX**	**24 10 58 34**±2.0	**62.0N**±.11	**26.6W**±.51	**10**	**4.2b,**4.2s	**23**	**4-144**
EIDC	IX	24 10 58 33.0	62.0N	27.5W	0	4.1b		**¶97ix3568**
NEIC	IX	24 10 58 33.4	61.98N	26.77W	10	4.4b,4.2s		
NEIC	Less reliable solution.							
ISC	**IX**	**24 11 00 23**±2.2	**62.7N**±.15	**27.2W**±.57	**10**	**4.0b**	**7**	**3-139**
EIDC	IX	24 11 00 22.1	62.7N	27.6W	0	4.0b,3.7L		**¶97ix3569**
ISC	**IX**	**24 11 59 49.9**±.84	**61.9N**±.15	**26.6W**±.26	**10**	**4.1b,**3.6s	**18**	**14-89**
NEIC	IX	24 11 59 49.7	61.93N	26.61W	10	4.3b		**¶97ix3576**
EIDC	IX	24 11 59 54.9	62.1N	26.6W	27	3.6b,3.5L		
NEIC	Less reliable solution.							
ISC	**IX**	**24 12 31 23**±1.1	**62.1N**±.16	**28.1W**±.29	**10**	**3.9b**	**12**	**4-89**
NEIC	IX	24 12 31 23.4	62.36N	27.83W	10	4.1b		**¶97ix3581**
EIDC	IX	24 12 31 24.2	62.1N	28.1W	0	3.9b,3.5L		
NEIC	Poor solution.							
ISC	**XI**	**08 21 03 27.2**±.91	**62.4N**±.13	**26.1W**±.25	**10**	**3.6b**	**9**	**3-66**
NEIC	XI	08 21 03 27.0	62.37N	26.11W	10			**¶97xi1351**
EIDC	XI	08 21 03 27.0	62.4N	26.1W	0	3.6b,4.2L		
NEIC	Less reliable solution.							

(639) Jan Mayen Island region.

BER VII 01 14 53 54.8 71.1N 7.5W 14 3.1D,2.8L ¶97vii0106
BER VII 01 16 25 33.8 70.8N 7.0W 15 2.9D,2.5L ¶97vii0115
BER VII 02 09 11 19.5 71.3N 9.3W 10 2.8D,3.1L ¶97vii0210
ISC VII 11 09 21 09.5±.73 71.85N±.081 0.9W±.32 10 3.6b 14 6-66
EIDC VII 11 09 21 09.3 71.8N 1.3W 0 3.6b,4.0L **¶97vii1653**
NEIC VII 11 09 21 09.6 71.84N 0.79W 10 3.7b
BER VII 11 09 21 15.2 72.7N 1.4E 10 3.8D,3.2L
NEIC Less reliable solution.
BER VIII 10 04 39 28.1 71.0N 6.6W 11 2.6D,3.3L ¶97viii1350
ISC VIII 15 18 57 06.1±.56 71.82N±.059 0.7W±.22 10 4.1b,3.7s 51 6-68
EIDC VIII 15 18 57 05.1 71.7N 1.4W 0 3.7L,3.6b **¶97viii2254**
NEIC VIII 15 18 57 05.5 71.85N 0.88W 10 4.2b
BER VIII 15 18 57 06.8 71.9N 1.9W 10 3.7D
MOS VIII 15 18 57 16.2 71.0N 0.9E 10 4.4b
NEIC Less reliable solution.
BER VIII 31 08 17 29.1 71.2N 8.3W 19 2.7D,3.2L ¶97viii4619
BER IX 11 13 54 50.0 71.2N 7.6W 17 2.5D,2.9L ¶97ix1686
BER IX 17 21 55 21.9 71.2N 6.9W 15 3.2D,3.3L ¶97ix2562
ISC IX 18 06 41 44.3±.38 71.10N±.047 6.4W±.13 10 4.2b,3.3s 50 1-137
EIDC IX 18 06 41 44.2 70.9N 6.3W 0 3.8b,3.9L **¶97ix2626**
NEIC IX 18 06 41 44.7 71.06N 6.68W 10 4.3b
BER IX 18 06 41 47.7 70.9N 6.8W 10 4.4D,3.5L
NEIC Less reliable solution.
BER IX 18 07 10 02.9 71.2N 7.0W 15 3.0D,3.0L ¶97ix2627
BER IX 18 07 14 05.4 71.1N 6.4W 10 2.5D,2.8L ¶97ix2628
BER IX 18 08 58 21.5 71.6N 6.8W 7 2.7D,3.5L ¶97ix2634
BER IX 18 10 02 03.5 71.3N 6.4W 15 2.9D ¶97ix2643
ISC IX 27 10 13 05±1.5 71.5N±.13 10.2W±.60 8 3.2b 8 1-25
BER IX 27 10 13 07.2 71.5N 10.1W 8 3.1D,3.3L **¶97ix4325**
EIDC IX 27 10 13 14.8 70.9N 8.4W 0 3.8L,3.1b
ISC X 12 19 31 38±1.9 71.1N±.18 10.5W±.51 10 6 1-12
BER X 12 19 31 25.5 72.1N 12.5W 10 4.2D,3.3L **¶97x2088**
BER X 17 12 00 09.9 71.1N 8.8W 18 3.1D,2.9L ¶97x2981
ISC X 23 02 15 12.4±.79 71.1N±.13 13.4W±.32 10 3.5b 11 6-52
NEIC X 23 02 15 12.2 71.07N 13.41W 10 **¶97x3911**
EIDC X 23 02 15 13.1 70.9N 13.8W 0 3.5b,3.6L
NEIC Less reliable solution.
ISC XI 03 02 20 55±1.9 71.7N±.15 12.3W±.60 15 3.4b 13 1-26
BER XI 03 02 20 56.7 71.5N 12.8W 15 4.2D,3.5L **¶97xi0377**
EIDC XI 03 02 21 09.5 71.3N 9.4W 0 3.8L,3.4b
BER XI 09 04 46 59.9 71.2N 8.2W 5 2.5D,2.6L ¶97xi1399
ISC XI 13 10 52 02±1.8 71.27N±.094 3.7W±.62 10 3.7b 7 9-42
NEIC XI 13 10 52 02.5 71.26N 3.67W 10 **¶97xi2125**
EIDC XI 13 10 52 03.4 71.2N 3.8W 0 3.8L,3.8b
NEIC Single network solution.
BER XI 15 11 04 44.4 71.3N 6.3W 15 3.1D,3.1L ¶97xi2463
BER XI 21 03 40 01.5 71.4N 9.7W 15 2.5D ¶97xi3572
ISC XII 02 00 02 03.5±.14 71.65N±.021 3.03W±.076 10 5.0b,4.9s 318 2-146
BJI XII 02 00 02 01.4 71.72N 2.99W 5 5.0b,5.2s **¶97xii0161**
NEIC XII 02 00 02 03.2 71.70N 2.93W 10 5.2b,4.9s
EIDC XII 02 00 02 03.2±.42 71.6N 3.0W 0 4.6b,4.5L
MOS XII 02 00 02 03.8 71.6N 2.8W 10 5.4b,4.8s
BER XII 02 00 02 06.2 71.6N 3.4W 10 5.5D,4.3L
HEL XII 02 00 02 08 71.70N 2.43W 5.0L
HRVD XII 02 00 02 08.1±.7 71.63N±.15 2.00W±.33 15
NEIC Mw5.3(HRV).
EIDC Error ellipse is semi−major=12.2km semi−minor=8.7km azimuth=52
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s17,c25; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−4.95±.65; $M_{\theta\theta}$−0.43±.95; $M_{\phi\phi}$5.37±.58; $M_{r\theta}$2.93±2.80; $M_{r\theta}$8.76±3.15; $M_{\theta\phi}$1.92±.67. Principal Axes: T 11.2,Plg30°,Azm287°; N −1.0, Plg1°,Azm18°; P −10.2,Plg60°,Azm110°. Best double couple: $M_0$1.1×10^{17}Nm, NP1:ϕ_S14°, δ15°,λ−94°. NP2:ϕ_S198°,δ75°,λ−89°.
ISC XII 02 05 47 42±2.6 71.8N±.11 1.2W±.86 10 3.2b 6 6-24
EIDC XII 02 05 47 41.8±4.42 71.8N 1.8W 0 3.3L,3.3b **¶97xii0191**
EIDC Error ellipse is semi−major=76.3km semi−minor=32.9km azimuth=97
EIDC XII 02 05 48 18.8±3.96 72.0N 1.1W 0 3.5L,3.2b 8-24
EIDC Error ellipse is semi−major=69.3km semi−minor=32.0km azimuth=99 **¶97xii0192**
EIDC XII 02 07 03 07.4±9.95 71.6N 1.5W 0 3.3L,3.1b 6-24
¶97xii0201
EIDC Error ellipse is semi−major=136.0km semi−minor=55.2km azimuth=134
BER XII 02 21 28 22.0 72.3N 1.2W 10 2.6L ¶97xii0315
EIDC XII 02 21 28 09.8 71.8N 4.5W 0 3.5L
EIDC Origin time error = 15.35Error ellipse is semi−major=171.6km semi−minor=62.5km azimuth=102
BER XII 03 14 10 12.4 71.1N 6.5W 15 2.7D,3.3L ¶97xii0435
BER XII 04 16 13 54.8 72.0N 10.5W 18 2.7D,2.6L ¶97xii0647
ISC XII 13 07 02 03.9±.12 71.24N±.018 8.34W±.066 10 5.2b,5.1s 411 0-173
BJI XII 13 07 02 03.6 71.30N 8.30W 10 5.0b,5.6s **¶97xii2907**
NEIC XII 13 07 02 03.6 71.25N 8.33W 10 5.3b,4.9s
EIDC XII 13 07 02 03.9±.49 71.2N 8.5W 0 4.6b,5.1s
MOS XII 13 07 02 04.4 71.2N 8.2W 10 5.5b,5.0s
BER XII 13 07 02 05.6 71.1N 9.3W 10 4.5L
HEL XII 13 07 02 06 71.21N 8.65W 4.9L
HRVD XII 13 07 02 09.5±.2 71.26N±.02 9.34W±.08 15
NEIC Mw5.6(HRV).
EIDC Error ellipse is semi−major=13.6km semi−minor=11.8km azimuth=45
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s33,c58; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}0.41±.05; $M_{\theta\theta}$1.44±.06; $M_{\phi\phi}$−1.85±.06; $M_{r\theta}$−0.51±.19; $M_{r\phi}$1.82±.18; $M_{\theta\phi}$2.32±.06. Principal Axes: T 2.73,Plg12°,Azm329°; N 1.13, Plg63°,Azm213°; P −3.86,Plg24°,Azm64°. Best double couple: $M_0$3.3×10^{17}Nm, NP1: ϕ_S104°,δ64°,λ−8°. NP2:ϕ_S198°,δ83°,λ−154°.
BER XII 13 07 17 28.9 71.2N 8.4W 21 2.5D,2.9L ¶97xii2909
BER XII 13 10 09 56.6 71.2N 8.6W 18 2.6D,2.9L ¶97xii2930
BER XII 13 13 18 22.5 71.3N 8.7W 10 2.7D,2.9L ¶97xii2949
BER XII 14 13 24 24.1 71.2N 8.4W 23 2.5D,2.2L ¶97xii3155
ISC XII 15 18 35 35±3.0 71.3N±.10 8W±1.7 17 4 0-6
BER XII 15 18 35 37.6 71.2N 8.3W 17 3.3D,3.2L **¶97xii3322**
ISC Poorly determined
BER XII 15 20 14 00.1 71.2N 8.2W 14 2.7D,2.9L ¶97xii3337
BER XII 15 23 42 18.5 71.2N 8.4W 22 3.1D,3.1L ¶97xii3358
BER XII 16 01 14 34.8 71.2N 8.3W 20 2.6D,2.8L ¶97xii3367
BER XII 16 06 04 04.5 71.1N 8.4W 21 3.2L ¶97xii3395
BER XII 17 16 44 10.8 71.2N 8.4W 24 2.5D,2.7L ¶97xii3633
EIDC XII 21 10 45 20.6±2.11 72.2N 12.2W 0 3.4b,3.5L 5-52
EIDC Error ellipse is semi−major=84.8km semi−minor=23.6km azimuth=11 **¶97xii4244**
ISC XII 25 16 04 30.9±.62 71.17N±.070 3.3W±.23 10 3.8b,3.5s 27 2-127
BER XII 25 16 04 29.0 71.7N 4.4W 7 2.8L **¶97xii4955**
NEIC XII 25 16 04 30.9 71.17N 3.32W 10 3.7b,3.5s
EIDC XII 25 16 04 31.8±.79 71.3N 3.6W 0 3.8b,4.1L
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=22.1km semi−minor=16.3km azimuth=57
ISC XII 25 19 15 43±1.1 71.4N±.11 3.2W±.36 10 3.4b,3.6s 14 7-42
EIDC XII 25 19 15 42.8±1.42 71.3N 3.6W 0 3.5b,3.6L **¶97xii4978**
NEIC XII 25 19 15 43.0 71.44N 3.18W 10 3.0b
BER XII 25 19 15 44.1 71.9N 4.0W 10 2.7L
EIDC Error ellipse is semi−major=37.4km semi−minor=21.3km azimuth=53
NEIC Less reliable solution.
ISC XII 26 02 39 23±1.3 71.8N±.14 6.5W±.42 10 3.5b 12 8-37
NEIC XII 26 02 39 37.1 71.24N 3.29W 10 4.0b **¶97xii5032**
EIDC XII 26 02 39 38.4 71.2N 3.5W 0 3.9L
NEIC Poor solution.
EIDC Origin time error = 11.45Error ellipse is semi−major=137.6km semi−minor=48.4km azimuth=127
ISC XII 26 06 39 14±1.3 71.0N±.13 2.8W±.41 10 6 10-39
NEIC XII 26 06 39 13.7 70.94N 2.74W 10 **¶97xii5070**
EIDC XII 26 06 39 14.6±1.83 71.0N 2.9W 0 3.4L,2.8b
NEIC Single network solution.
EIDC Error ellipse is semi−major=49.7km semi−minor=25.3km azimuth=43
BER XII 26 09 10 44.3 71.2N 8.2W 0 2.7D,2.6L ¶97xii5091
BER XII 31 01 16 21.0 71.2N 8.6W 17 2.7D,2.8L ¶97xii5816

(640) Greenland Sea.

ISC VII 07 21 42 46.6±.21 75.03N±.034 3.8W±.14 10 4.6b,3.9s 120 4-148
BJI VII 07 21 42 46.4 75.00N 3.80W 10 4.7b **¶97vii1094**
NEIC VII 07 21 42 46.4 75.04N 3.87W 10 4.7b,3.9s
BER VII 07 21 42 47.2 75.1N 5.7W 10 3.7D,3.7L
EIDC VII 07 21 42 49.5 75.0N 3.8W 21 4.2b,3.6s
ISC IX 14 14 59 50±1.0 78.8N±.15 2.6E±.72 10 3.5b 11 3-150
NEIC IX 14 14 59 50.3 78.74N 2.74E 10 **¶97ix2137**
EIDC IX 14 14 59 51.7 79.3N 3.9E 0 3.5b,3.9L
ISC X 06 20 57 48±1.1 73.40N±.063 8.7E±.44 0 3.8b 14 5-25
BER X 06 20 57 50.1 73.4N 7.8E 0 2.9D **¶97x1117**
EIDC X 06 20 57 51.7 73.4N 9.4E 0 3.5L,3.7b
HEL X 06 20 57 53 73.59N 8.74E 3.3L
ISC X 06 21 13 10.9±.22 73.39N±.027 7.9E±.14 10 4.8b,4.7s 167 5-145
BER X 06 21 13 08.1 73.5N 7.5E 10 3.8D,3.4L **¶97x1118**
HEL X 06 21 13 10 73.52N 8.33E 4.5L
MOS X 06 21 13 10.3 73.4N 7.7E 10 5.2b,4.5s
BJI X 06 21 13 10.3 73.40N 8.00E 10 4.9b,5.2s
NEIC X 06 21 13 10.3 73.42N 7.99E 10 5.0b
EIDC X 06 21 13 14.2 73.4N 7.8E 20 4.4b,4.0L
ISC X 06 21 17 25.7±.59 73.38N±.054 9.1E±.30 10 4.0b 24 5-57
BER X 06 21 17 25.0 73.5N 7.6E 0 3.3L **¶97x1120**
NEIC X 06 21 17 25.9 73.40N 9.35E 10 4.3b
EIDC X 06 21 17 26.4 73.4N 9.6E 0 4.0L,3.9b
HEL X 06 21 17 28 73.61N 8.29E 3.8L
NEIC Less reliable solution.
ISC X 06 21 29 00.8±.94 73.40N±.059 7.8E±.42 10 16 5-25
BER X 06 21 29 06.1 73.5N 8.6E 0 2.7L **¶97x1122**
ISC X 06 21 29 18.0±.28 73.35N±.032 8.1E±.14 10 4.6b,4.6s 107 5-145
BJI X 06 21 29 17.6 73.40N 8.30E 10 4.8b,5.4s **¶97x1123**
NEIC X 06 21 29 17.6 73.40N 8.23E 10 4.7b,4.6s
EIDC X 06 21 29 17.8 73.4N 7.7E 0 4.2b,4.3L
MOS X 06 21 29 18.5 73.3N 8.2E 10 5.0b,4.4s
BER X 06 21 29 19.5 73.5N 7.5E 10 3.4L
ISC X 06 23 45 36.7±.24 73.47N±.030 7.7E±.13 10 4.7b,4.5s 113 5-145
MOS X 06 23 45 35.6 73.6N 7.1E 10 5.1b,4.4s **¶97x1137**
BJI X 06 23 45 36.6 73.50N 7.70E 10 4.9b,5.3s
NEIC X 06 23 45 36.6 73.47N 7.76E 10 4.8b
EIDC X 06 23 45 37.1 73.4N 8.1E 0 4.3b,4.2L
BER X 06 23 45 39.5 73.5N 7.8E 15 3.5D,3.2L
HEL X 06 23 45 43 73.31N 8.48E 4.5L
ISC X 07 01 16 03±1.4 73.42N±.067 7.6E±.60 10 2.9b 10 5-41
EIDC X 07 01 16 06.3 73.4N 8.4E 0 3.5L,3.1b **¶97x1150**
ISC X 30 13 44 08±1.2 73.87N±.066 9.7E±.62 10 9 5-14
NEIC X 30 13 44 08.2 73.88N 9.92E 10 **¶97x5047**
EIDC X 30 13 44 10.0 73.9N 10.4E 0 3.9L
BER X 30 13 44 10.8 73.89N 9.65E 15
NEIC Poor solution.
ISC XI 06 18 07 46±1.2 79.1N±.10 4.8E±.59 10 3.2b 13 1-35
EIDC XI 06 18 07 47.0 79.2N 5.5E 0 3.7L,3.1b **¶97xi1010**
BER XI 06 18 07 49.8 79.4N 5.7E 0 2.6L
BER XI 08 06 40 10.3 73.7N 17.2W 15 2.9L ¶97xi1225
ISC XI 15 05 24 46±1.2 75.91N±.094 9.4E±.63 10 3.3b 7 3-55
EIDC XI 15 05 24 46.1 75.9N 9.6E 0 3.4b,2.8L **¶97xi2423**
ISC XI 26 11 27 01±2.2 79.3N±.34 3.4E±.52 15 5 2-14
BER XI 26 11 27 00.5 79.6N 3.0E 15 2.5D **¶97xi4676**
ISC XII 14 19 25 50.3±.37 74.68N±.039 9.0E±.26 10 3.9b,3.6s 45 4-122
EIDC XII 14 19 25 50.1±.66 74.7N 9.3E 0 3.6b,3.6s **¶97xii3184**
BJI XII 14 19 25 50.3 74.70N 9.20E 10
NEIC XII 14 19 25 50.3 74.66N 9.16E 10 4.5b
BER XII 14 19 25 54.0 74.6N 9.6E 10 2.7D,2.9L
HEL XII 14 19 25 57 74.84N 11.53E 4.0L
EIDC Error ellipse is semi−major=16.7km semi−minor=14.4km azimuth=62
ISC XII 30 16 58 03.6±.80 75.76N±.078 7.7E±.50 10 3.5b 14 3-67
EIDC XII 30 16 58 03.6±1.39 75.6N 7.0E 0 3.6b,3.4L **¶97xii5762**
NEIC XII 30 16 58 03.7 75.63N 7.02E 10 3.6b
BER XII 30 16 58 09.5 75.9N 9.4E 15 2.5L
EIDC Error ellipse is semi−major=42.8km semi−minor=20.7km azimuth=29
NEIC Less reliable solution.

(641) North of Svalbard.

ISC VII 28 07 39 52±1.4 87.2N±.12 34E±7.4 20 3.5b 5 9-63
EIDC VII 28 07 39 53.7 87.2N 38.2E 20 3.5b,3.9L **¶97vii4232**
ISC VIII 18 08 52 46.2±.73 82.0N±.13 7W±1.0 10 3.6b 11 6-78
NEIC VIII 18 08 52 44.9 82.32N 4.48W 10 **¶97viii2648**
EIDC VIII 18 08 52 45.7 82.2N 5.1W 0 3.6b,3.9L
NEIC Poor solution.
EIDC X 05 20 44 36.8 83.8N 0.8E 0 3.5b,3.0L ¶97x0930
ISC XI 03 14 44 51.9±.57 81.05N±.083 3.5W±.52 10 3.9b,3.9s 16 3-74
NEIC XI 03 14 44 52.0 81.10N 4.15W 10 4.4b **¶97xi0481**
EIDC XI 03 14 44 52.4 81.2N 2.8W 0 3.8b,3.7s
NEIC Less reliable solution.

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
(642) Norwegian Sea.								
ISC	**VII**	**06 19 03 16**±4.5	**61.2N**±.11	**3.6E**±.77	**63**±20		**12**	**1-11**
BER	VII	06 19 03 16.8	61.2N	3.4E	21	2.8D,2.4L		¶97vii0920
ISC	**VII**	**14 11 47 54.4**±.68	**61.44N**±.073	**3.49E**±.090	**15**		**19**	**1-7**
BER	VII	14 11 47 56.5	61.5N	3.6E	15	3.1D,2.8L		¶97vii2120
ISC	**VII**	**27 01 25 41**±1.4	**72.5N**±.10	**4.0E**±.58	**10**	**3.5b**	**8**	**6-42**
BER	VII	27 01 25 41.0	71.7N	2.1E	0	2.5L		¶97vii4038
NEIC	VII	27 01 25 41.0	72.50N	4.74E	10			
EIDC	VII	27 01 25 43.5	72.6N	5.4E	0	3.4L,3.4s		
NEIC	Single network solution.							
BER	**VIII**	**04 22 15 42.3**	**67.9N**	**9.8E**	**10**	**2.5D,2.2L**		¶97viii0560
EIDC	**VIII**	**14 02 20 45.8**	**70.9N**	**11.4E**	**0**	3.4L,2.7b		**10-22**
								¶97viii1992
ISC	**VIII**	**19 03 45 07**±3.7	**64.0N**±.16	**6.7W**±.71	**0**		**14**	**6-16**
BER	VIII	19 03 45 05.6	64.1N	7.9W	0	3.6D,2.6L		¶97viii2759
ISC	**VIII**	**21 22 36 05**±2.8	**65.1N**±.17	**5.2E**±.47	**15**		**15**	**3-11**
HEL	VIII	21 22 36 08	64.90N	5.26E		3.1L		¶97viii3151
BER	VIII	21 22 36 09.9	65.0N	5.4E	15	3.1D,2.4L		
ISC	**VIII**	**31 05 47 34.0**±.69	**61.42N**±.081	**2.68E**±.089	**15**		**24**	**1-12**
BER	VIII	31 05 47 38.8	61.3N	3.1E	15	2.7D,2.2L		¶97viii4591
ISC	**VIII**	**31 13 51 17.0**±.89	**73.0N**±.11	**7.2E**±.52	**10**	**3.7b**	**10**	**7-57**
EIDC	VIII	31 13 51 18.2	73.1N	6.9E	0	3.8b,3.8L		¶97viii4663
NEIC	VIII	31 13 51 19.5	72.91N	7.26E	33			
NEIC	Single network solution.							
ISC	**IX**	**01 16 50 16.1**±.67	**72.93N**±.067	**6.3E**±.32	**10**	**3.7b**	**25**	**5-133**
BER	IX	01 16 50 13.6	73.3N	4.9E	10	2.6L		¶97ix0140
NEIC	IX	01 16 50 14.8	72.86N	6.11E	10	4.1b		
EIDC	IX	01 16 50 18.1	72.9N	6.3E	17	3.7L,3.4b		
NEIC	Less reliable solution.							
BER	**IX**	**12 20 44 02.2**	**64.3N**	**5.3E**	**13**	**2.5D**		¶97ix1874
ISC	**IX**	**27 13 54 10.9**±.89	**71.77N**±.086	**2.4E**±.33	**10**	**3.7b**	**13**	**6-99**
NEIC	IX	27 13 54 09.2	71.57N	2.09E	10			¶97ix4368
EIDC	IX	27 13 54 10.1	71.7N	1.9E	0	3.5L,3.5b		
BER	IX	27 13 54 16.6	71.5N	2.4E	0	2.7L		
NEIC	Less reliable solution.							
ISC	**X**	**04 19 52 18**±1.5	**71.90N**±.097	**1.7E**±.44	**10**	3.3b	**9**	**6-24**
EIDC	X	04 19 52 17.1	71.9N	1.2E	0	3.5L,3.4b		¶97x0714
NEIC	X	04 19 52 17.2	71.93N	1.48E	10			
BER	X	04 19 52 18.1	71.9N	0.4E	10	3.5D,2.4L		
NEIC	Single network solution.							
ISC	**X**	**12 19 27 21**±1.1	**62.24N**±.067	**1.9E**±.19	**15**		**21**	**2-12**
NEIC	X	12 19 27 20.5	62.21N	1.72E	33			¶97x2087
EIDC	X	12 19 27 20.7	62.2N	2.0E	0	3.4L		
BER	X	12 19 27 26.3	62.0N	2.2E	15	2.9D,2.2L		
NEIC	Single network solution.							
ISC	**X**	**24 13 30 40**±1.8	**72.2N**±.13	**2.2E**±.71	**10**	3.2b	**4**	**7-42**
EIDC	X	24 13 30 41.1	72.3N	1.9E	0	3.6L,3.3b		¶97x4172
ISC	Poorly determined							
ISC	**X**	**24 14 31 34**±1.3	**72.4N**±.12	**3.0E**±.57	**10**	**3.5b**	**8**	**7-42**
EIDC	X	24 14 31 33.4	72.4N	2.4E	0	3.5b,3.4L		¶97x4184
BER	**XI**	**08 12 12 48.8**	**65.7N**	**6.4E**	**0**	**2.5D**		¶97xi1277
HEL	**XI**	**14 16 20 43**	**74.15N**	**15.44E**		**3.1L**		¶97xi2317
ISC	**XI**	**16 03 36 18.1**±.70	**74.76N**±.055	**10.8E**±.47	**10**	**3.6b**	**17**	**4-40**
NEIC	XI	16 03 36 17.6	74.73N	10.66E	10	4.5b		¶97xi2592
EIDC	XI	16 03 36 18.1	74.8N	10.6E	0	3.6b,3.3L		
NEIC	Less reliable solution.							
BER	**XI**	**24 11 36 58.5**	**67.8N**	**11.8E**	**12**	**2.5D,1.7L**		¶97xi4309
ISC	**XI**	**25 08 29 03.2**±.61	**72.48N**±.050	**3.4E**±.26	**10**	**4.0b**,3.8s	**30**	**6-124**
BJI	XI	25 08 29 02.6	72.84N	1.97E	17	4.5b		¶97xi4471
EIDC	XI	25 08 29 03.4	72.4N	2.8E	0	3.7b,3.9L		
NEIC	XI	25 08 29 03.8	72.61N	2.58E	10	4.3b		
BER	XI	25 08 29 05.0	72.4N	2.6E	0	2.9L		
NEIC	Less reliable solution.							
BER	**XI**	**29 16 06 48.3**	**67.9N**	**9.8E**	**0**	**2.5D,2.0L**		¶97xi5289
ISC	**XII**	**20 21 40 48.7**±.54	**67.56N**±.049	**10.9E**±.15	**10**	**3.9b**	**48**	**1-72**
HEL	XII	20 21 40 49	67.90N	10.29E		4.0L		¶97xii4175
BER	XII	20 21 40 50.1	67.9N	10.0E	15	3.8D,3.4L		
NEIC	XII	20 21 40 50.2	67.58N	11.33E	10	4.7b		
EIDC	XII	20 21 40 51.0±.88	67.6N	11.4E	0	4.0L,3.5b		
EIDC	Error ellipse is semi−major=24.1km semi−minor=15.1km azimuth=75							
ISC	**XII**	**21 18 30 07**±1.8	**68.0N**±.12	**10.3E**±.32	**10**		**19**	**1-10**
EIDC	XII	21 18 30 09.6±5.08	67.8N	10.4E	0	3.2L		¶97xii4291
HEL	XII	21 18 30 10	68.01N	10.12E		2.4L		
BER	XII	21 18 30 12.2	68.0N	10.3E	10	3.1D,2.5L		
EIDC	Error ellipse is semi−major=67.1km semi−minor=22.9km azimuth=130							
BER	**XII**	**23 03 33 37.5**	**65.6N**	**5.4E**	**15**	**2.6D,1.7L**		¶97xii4533
ISC	**XII**	**25 00 11 33**±1.3	**73.5N**±.11	**14.8E**±.45	**10**	2.9b	**14**	**4-40**
BER	XII	25 00 11 18.5	74.8N	13.2E	15	2.7L		¶97xii4841
HEL	XII	25 00 11 26	74.61N	15.13E		3.2L		
EIDC	XII	25 00 11 27.3±8.98	74.1N	14.6E	0	3.5L		
NEIC	XII	25 00 11 32.9	73.52N	14.84E	10	3.0b		
EIDC	Error ellipse is semi−major=85.6km semi−minor=48.9km azimuth=152							
NEIC	Less reliable solution.							
BER	**XII**	**26 15 10 13.0**	**67.9N**	**11.5E**	**26**	**2.6D**		¶97xii5158
BER	**XII**	**27 13 23 31.3**	**65.5N**	**5.4E**	**4**	**2.8D**		¶97xii5294
(643) Svalbard region.								
BER	**VII**	**02 22 26 24.3**	**76.9N**	**21.3E**	**15**	**3.0D,2.6L**		¶97vii0309
ISC	**VII**	**20 13 05 35**±1.0	**77.54N**±.081	**10.2E**±.53	**10**	3.3b	**12**	**1-36**
BER	VII	20 13 05 32.3	77.8N	8.1E	10	2.7D,3.0L		¶97vii3097
NEIC	VII	20 13 05 35.2	77.64N	9.79E	10			
EIDC	VII	20 13 05 35.2	77.6N	10.1E	0	3.5L,3.3b		
NEIC	Less reliable solution.							
BER	**IX**	**07 00 01 59.1**	**80.3N**	**22.4E**	**12**	**2.9L**		¶97ix0995
ISC	**IX**	**30 23 12 04**±1.1	**76.3N**±.10	**22E**±1.0	**10**		**11**	**2-16**
EIDC	IX	30 23 12 05.7	76.4N	23.5E	0	3.4L		¶97ix5331
BER	IX	30 23 12 06.5	76.6N	25.5E	23	3.1L		
BER	**X**	**03 18 50 04.9**	**76.5N**	**24.1E**	**15**	**2.9D,2.5L**		¶97x0511
ISC	**X**	**06 12 33 28.9**±.59	**76.36N**±.051	**23.0E**±.41	**10**	**3.8b**	**21**	**2-39**
BER	X	06 12 33 28.5	76.7N	25.7E	15	3.4D,3.8L		¶97x1049
NEIC	X	06 12 33 29.3	76.36N	23.22E	10			
EIDC	X	06 12 33 29.4	76.4N	23.7E	0	4.1L,3.9b		
NEIC	Single network solution.							
ISC	**X**	**06 19 23 50**±2.1	**76.3N**±.37	**22E**±3.2	**0**		**4**	**2-9**
BER	X	06 19 23 53.6	76.4N	23.1E	0	2.9D		¶97x1106
ISC	Poorly determined							
BER	**X**	**14 21 37 52.4**	**77.5N**	**9.5E**	**10**	**2.7D,2.6L**		¶97x2500
ISC	**X**	**15 21 23 27.3**±.85	**76.72N**±.089	**19.5E**±.95	**15**		**15**	**2-17**
EIDC	X	15 21 23 26.9	77.0N	22.1E	0	3.7L		¶97x2726
BER	X	15 21 23 29.4	77.0N	22.4E	15	3.4D,3.0L		
HEL	X	15 21 23 35	76.60N	20.40E		3.6L		
ISC	**X**	**25 06 52 50**±6.2	**79.5N**±.50	**22E**±1.5	**7**		**7**	**2-20**
BER	X	25 06 52 55.8	79.4N	21.1E	7	3.0D,3.1L		¶97x4291
ISC	**X**	**27 13 26 16**±1.2	**76.2N**±.13	**21E**±1.2	**21**		**6**	**2-16**
BER	X	27 13 26 18.1	76.4N	23.2E	21	2.5D		¶97x4612
BER	**XI**	**22 21 59 31.0**	**76.5N**	**24.1E**	**15**	**2.9D,2.5L**		¶97xi3970
BER	**XII**	**06 19 35 47.4**	**78.3N**	**7.6E**	**10**	**2.7D,3.1L**		¶97xii1505
ISC	**XII**	**19 01 47 24.0**±.50	**76.23N**±.049	**24.0E**±.35	**10**	**3.8b**	**30**	**4-70**
NEIC	XII	19 01 47 23.5	76.21N	23.60E	10	3.9b		¶97xii3872
BER	XII	19 01 47 24.4	76.6N	25.3E	15	3.1D,3.6L		
EIDC	XII	19 01 47 28.5±1.42	76.3N	23.0E	29±10.8	3.6b,4.0L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=25.4km semi−minor=17.4km azimuth=77							
(645) Franz Joseph Land.								
BER	**XI**	**22 22 45 55.3**	**82.2N**	**37.5E**	**15**	**2.5L**		¶97xi3977
(646) Northern Norway.								
BER	**VII**	**08 01 12 01.5**	**66.9N**	**15.5E**	**0**	**2.3D,2.0L**		¶97vii1114
BER	Explosion							
BER	**VII**	**15 15 27 19.6**	**66.8N**	**15.6E**	**0**	**2.3D**		¶97vii2318
BER	Explosion							
ISC	**VII**	**17 23 36 27**±1.1	**67.73N**±.094	**15.2E**±.20	**0**		**7**	**1-8**
BER	VII	17 23 36 29.2	67.9N	15.3E	0	2.5D,2.0L		¶97vii2662
HEL	VII	17 23 36 31	67.77N	14.97E		2.2L		
BER	**VII**	**22 22 14 42.8**	**66.9N**	**16.0E**	**0**	**2.5D,2.1L**		¶97vii3439
BER	Explosion							
BER	**VII**	**30 02 36 08.0**	**66.3N**	**13.4E**	**0**	**2.7D,1.7L**		¶97vii4519
BER	**VIII**	**25 23 41 17.5**	**69.0N**	**18.4E**	**0**	**2.4D,1.6L**		¶97viii3753
BER	Probable explosion							
BER	**VIII**	**27 23 28 53.3**	**68.3N**	**19.7E**	**0**	**2.6D**		¶97viii4056
BER	Probable explosion							
ISC	**X**	**07 14 49 50**±2.1	**69.5N**±.18	**16.5E**±.38	**16**		**11**	**1-9**
EIDC	X	07 14 49 48.9	69.6N	16.4E	0	3.1L		¶97x1265
BER	X	07 14 49 49.4	69.8N	16.1E	16	2.5D		
ISC	**X**	**16 11 04 26.5**±.89	**66.44N**±.078	**15.0E**±.26	**0**		**7**	**2-7**
BER	X	16 11 04 30.0	66.5N	14.7E	0	2.3D		¶97x2828
BER	Explosion							
BER	**XI**	**05 11 01 19.6**	**66.4N**	**14.8E**	**0**	**2.2D,1.7L**		¶97xi0780
BER	Explosion							
BER	**XI**	**09 09 34 39.0**	**66.3N**	**13.3E**	**15**	**2.5D,1.3L**		¶97xi1427
BER	**XI**	**13 09 04 02.3**	**68.0N**	**19.7E**	**0**	**1.8L**		¶97xi2106
BER	Probable explosion							
ISC	**XI**	**19 08 15 52**±1.2	**66.4N**±.10	**15.3E**±.31	**0**		**8**	**2-7**
BER	XI	19 08 15 54.8	66.5N	14.7E	0	2.2D,1.8L		¶97xi3170
EIDC	XI	19 08 15 54.8	66.4N	15.5E	0	2.6L		
BER	Explosion							
ISC	**XI**	**21 18 00 10**±2.4	**66.43N**±.079	**13.4E**±.33	**22**±23		**9**	**1-8**
HEL	XI	21 18 00 09	66.47N	13.12E		2.5L		¶97xi3703
BER	XI	21 18 00 10.5	66.5N	13.1E	0	2.9D,2.2L		
ISC	**XI**	**25 22 24 15**±1.0	**66.44N**±.069	**13.0E**±.30	**14**		**12**	**1-8**
HEL	XI	25 22 24 14	66.49N	12.25E		2.3L		¶97xi4588
EIDC	XI	25 22 24 16.2	66.3N	13.1E	0	2.9L		
BER	XI	25 22 24 16.7	66.5N	12.3E	14	2.9D,2.5L		
BER	**XI**	**28 19 22 53.3**	**66.3N**	**15.0E**	**92**	**2.8D,1.6L**		¶97xi5130
HEL	XI	28 19 22 54	66.43N	13.14E		1.8L		
BER	**XI**	**28 19 29 10.1**	**66.3N**	**14.8E**	**89**	**2.8D,1.7L**		¶97xi5131
ISC	**XI**	**29 18 15 12**±1.3	**70.47N**±.091	**27.9E**±.40	**0**		**7**	**1-12**
HEL	XI	29 18 15 17	70.40N	28.30E		2.4L		¶97xi5305
BER	**XI**	**30 05 51 51.0**	**68.2N**	**19.9E**	**0**	**2.3D**		¶97xi5370
BER	Probable explosion							
BER	**XII**	**11 11 35 45.1**	**66.4N**	**14.7E**	**0**	**2.6D,1.8L**		¶97xii2554
BER	Explosion							
BER	**XII**	**16 14 26 29.7**	**66.5N**	**12.9E**	**0**	**2.8D,2.2L**		¶97xii3463
BER	**XII**	**26 14 21 43.1**	**66.4N**	**13.1E**	**0**	**2.8D**		¶97xii5145
BER	Probable explosion							
BER	**XII**	**26 15 21 56.1**	**66.4N**	**13.1E**	**0**	**2.7D**		¶97xii5162
BER	Probable explosion							
(647) Barents Sea.								
BER	**VIII**	**02 06 23 25.8**	**74.1N**	**22.0E**	**15**	**3.0D**		¶97viii0183
ISC	**X**	**05 00 22 00**±1.4	**76.60N**±.097	**25.8E**±.84	**10**	3.9b	**15**	**3-28**
EIDC	X	05 00 21 55.1	76.9N	28.6E	0	3.9L		¶97x0767
BER	X	05 00 22 05.0	76.7N	25.1E	17	3.6D,3.3L		
ISC	**X**	**05 06 33 07**±2.2	**76.6N**±.15	**25E**±1.3	**0**		**7**	**3-17**
BER	X	05 06 33 12.1	76.6N	24.9E	0	2.8D,2.9L		¶97x0817
ISC	**X**	**27 13 54 07**±2.2	**76.7N**±.17	**25E**±1.5	**20**		**8**	**2-17**
EIDC	X	27 13 54 07.0	76.7N	25.5E	0	3.4L		¶97x4616
BER	X	27 13 54 12.0	76.5N	23.5E	20	2.6D,3.0L		
(648) Novaya Zemlya.								
ISC	**VIII**	**16 02 10 59.2**±.93	**72.6N**±.11	**56.9E**±.29	**10**		**16**	**10-21**
BER	VIII	16 02 10 44.4	72.1N	61.6E	0	2.5L		¶97viii2305
NEIC	VIII	16 02 10 59.7	72.84N	57.23E	10	3.2b		
EIDC	VIII	16 02 10 59.9	72.6N	57.4E	0	3.8L,3.9b		
HEL	VIII	16 02 11 02	72.50N	57.69E		3.8L		
NEIC	Less reliable solution.							
(651) North of Severnaya Zemlya.								
EIDC	**IX**	**07 14 14 05.3**	**83.4N**	**113.6E**	**0**	**3.2b**,3.5L		¶97ix1080
(654) East of Severnaya Zemlya.								
ISC	**VII**	**01 00 39 46.7**±.91	**80.5N**±.14	**122.1E**±.71	**10**	**3.5b**,2.7s	**8**	**14-68**
EIDC	VII	01 00 39 46.9	80.5N	122.6E	0	3.5b,2.7s		¶97vii0003

SEISMIC REGION 41.
EASTERN ASIA.

(656) Eastern Russia.

ISC	**VII**	**13 18 28 08**±4.4	**57.6N**±.18	**124.2E**±.93	**0**	4.1b	**4**	**6-22**	
EIDC	VII	13 18 28 12.3	57.5N	123.7E	0	3.7L,4.1b			¶97vii2008
ISC	Poorly determined								
ISC	**IX**	**02 22 30 07.7**±.52	**57.66N**±.073	**137.8E**±.14	**10**	**3.9b**	**19**	**6-81**	
MOS	IX	02 22 30 06.9	57.7N	137.9E	10	4.6b			¶97ix0340
EIDC	IX	02 22 30 08.1	57.6N	137.4E	0	3.8b,4.9L			
NEIC	IX	02 22 30 08.2	57.60N	137.54E	10	4.4b			
NEIC	Less reliable solution.								
ISC	**X**	**19 16 58 26**±5.6	**57.8N**±.38	**120.2E**±.44	**51**±37	**3.8b**	**7**	**4-49**	
EIDC	X	19 16 58 22.9	57.6N	120.5E	16	3.7b,4.1L			¶97x3370
NEIC	X	19 16 58 23.9	57.68N	120.37E	33				
NEIC	Poor solution.								
ISC	**X**	**21 00 18 12**±2.3	**57.0N**±.13	**120.1E**±.26	**46**±26	**3.8b**	**10**	**5-72**	
NEIC	X	21 00 18 08.1	57.12N	120.23E	10				¶97x3579
EIDC	X	21 00 18 08.8	57.2N	120.3E	0	3.8b,4.2L			
NEIC	Less reliable solution.								
ISC	**X**	**24 11 32 00**±1.0	**57.1N**±.12	**120.3E**±.25	**10**	3.3b	**6**	**5-72**	
NEIC	X	24 11 31 59.6	57.12N	120.37E	10				¶97x4155
EIDC	X	24 11 32 00.5	57.2N	120.4E	0	3.4b,4.3L			
NEIC	Single network solution.								
ISC	**X**	**24 11 50 17.5**±.96	**57.23N**±.052	**120.17E**±.075	**47**±10	**4.3b,4.4s**	**76**	**3-86**	
NEIC	X	24 11 50 12.6	57.28N	120.11E	10	4.7b			¶97x4158
MOS	X	24 11 50 13.3	57.4N	120.3E	10	4.9b,4.6s			
EIDC	X	24 11 50 13.4	57.3N	120.4E	0	4.2b,4.3s			
NEIC	Felt I=V MM at Khani.								
ISC	**X**	**24 11 58 13**±6.3	**57.1N**±.14	**120.2E**±.39	**22**±49	**3.6b**	**8**	**5-81**	
NEIC	X	24 11 58 10.9	57.15N	120.32E	10				¶97x4160
EIDC	X	24 11 58 11.2	57.2N	120.4E	0	3.7b,4.4L			
NEIC	Single network solution.								
ISC	**X**	**24 12 05 46.3**±.88	**57.13N**±.090	**120.3E**±.24	**10**	**4.0b**	**11**	**5-81**	
NEIC	X	24 12 05 45.6	57.11N	120.40E	10				¶97x4162
EIDC	X	24 12 05 46.7	57.2N	120.3E	0	3.8b,4.6L			
NEIC	Single network solution.								
ISC	**X**	**24 12 19 05**±2.6	**57.34N**±.071	**120.6E**±.13	**25**±20	**4.1b,3.8s**	**31**	**3-81**	
MOS	X	24 12 19 02.3	57.3N	120.7E	10	4.7b			¶97x4164
NEIC	X	24 12 19 02.4	57.12N	120.22E	10	4.5b			
EIDC	X	24 12 19 02.7	57.2N	120.4E	0	4.0b,3.8s			
BJI	X	24 12 19 06.4	57.10N	120.20E	10	4.1b,4.7s			
NEIC	Less reliable solution.								
ISC	**X**	**24 12 52 54**±1.0	**57.29N**±.045	**120.04E**±.072	**42**±10	**4.4b,4.6s**	**92**	**3-147**	
EIDC	X	24 12 52 49.4	57.2N	120.0E	0	4.4b,4.3s			¶97x4167
MOS	X	24 12 52 50.1	57.5N	120.1E	10	5.0b,4.7s			
NEIC	X	24 12 52 52.2	57.17N	119.74E	33	4.7b			
BJI	X	24 12 52 56.0	56.74N	119.94E	13	4.4b,5.0s			
ISC	**X**	**24 13 14 04**±3.8	**57.1N**±.11	**120.5E**±.20	**32**±32	**3.7b**	**10**	**5-72**	
NEIC	X	24 13 14 00.9	57.12N	120.50E	10				¶97x4170
EIDC	X	24 13 14 01.8	57.3N	120.5E	0	3.8b,4.5L			
NEIC	Less reliable solution.								
ISC	**X**	**24 19 37 13.0**±.93	**58.8N**±.10	**120.5E**±.28	**10**	**3.6b**	**7**	**4-49**	
NEIC	X	24 19 37 12.9	58.79N	120.46E	10				¶97x4214
EIDC	X	24 19 37 13.3	58.8N	120.6E	0	3.6b,4.1L			
NEIC	Single network solution.								
ISC	**X**	**25 01 38 47**±2.9	**57.4N**±.39	**120.7E**±.27	**33**	**3.8b**	**7**	**5-50**	
EIDC	X	25 01 38 45.1	57.4N	120.6E	0	3.8b,4.7L			¶97x4252
ISC	**X**	**27 22 55 40**±3.7	**56.5N**±.57	**120.3E**±.33	**10**	**3.9b**	**6**	**5-50**	
NEIC	X	27 22 55 37.2	56.13N	120.15E	10				¶97x4670
EIDC	X	27 22 55 40.2	56.5N	120.3E	0	3.9b,4.5L			
NEIC	Poor solution.								
ISC	**XI**	**06 19 50 36**±1.5	**57.42N**±.055	**120.4E**±.12	**54**±15	**4.1b,3.4s**	**45**	**5-82**	
NEIC	XI	06 19 50 33.2	57.42N	120.51E	33	4.5b			¶97xi1019
MOS	XI	06 19 50 33.8	57.4N	120.6E	33	4.7b			
EIDC	XI	06 19 50 36.6	57.3N	120.5E	54	3.9b,2.9s			
BJI	XI	06 19 50 38.4	56.46N	120.75E	5	4.8L,4.1b			
BJI	Ms4.3								
ISC	**XI**	**06 20 24 45**±2.8	**57.3N**±.43	**120.2E**±.30	**33**	**3.5b**	**6**	**5-50**	
EIDC	XI	06 20 24 42.1	57.4N	120.4E	0	3.5b,4.2L			¶97xi1027
NEIC	XI	06 20 24 45.0	57.36N	120.24E	33				
NEIC	Poor solution.								
ISC	**XI**	**08 15 07 13**±2.7	**58.5N**±.39	**120.8E**±.20	**0**	**3.6b**	**8**	**4-85**	
EIDC	XI	08 15 07 10.6	57.8N	120.8E	0	3.6b,4.0L			¶97xi1298
ISC	**XI**	**10 17 47 25.6**±.35	**54.94N**±.046	**124.2E**±.11	**33**	**4.1b,3.6s**	**45**	**6-147**	
EIDC	XI	10 17 47 22.6	54.9N	124.0E	0	4.0b,4.2L			¶97xi1652
BJI	XI	10 17 47 25.0	54.84N	124.06E	30	4.8L,4.4b			
NEIC	XI	10 17 47 25.1	54.94N	123.76E	33	4.5b			
MOS	XI	10 17 47 25.7	54.9N	124.0E	33	4.7b			
BJI	Ms4.4								
MOS	Felt I=III MSK at Tynda.								
ISC	**XII**	**06 04 00 40**±1.8	**57.1N**±.13	**120.8E**±.52	**33**	**4.1b**	**8**	**5-50**	
EIDC	XII	06 04 00 36.9±2.64	57.2N	121.0E	0	3.9b,4.3L			¶97xii1240
EIDC	Error ellipse is semi−major=55.6km semi−minor=23.8km azimuth=85								

(657) E. Russia-N.E. China border region.

ISC	**VII**	**06 01 51 47.9**±.20	**42.90N**±.025	**131.51E**±.032	**538**±3.5	**4.6b**	**358**	**2-153**	
MOS	VII	06 01 51 47.7	42.8N	131.5E	549	5.0b			¶97vii0821
JMA	VII	06 01 51 47.9±.1	42.89N±.01	131.82E±.02	599±4	5.6			
NEIC	VII	06 01 51 47.9	42.87N	131.33E	542	4.7b			
EIDC	VII	06 01 51 48.9	42.9N	131.5E	548	4.2b			
BJI	VII	06 01 51 49.8	42.79N	131.29E	558	5.3b			

(658) North-Eastern China.

BJI	**VII**	**02 18 56 17.2**	**38.09N**	**112.76E**	**13**	**2.9L**			¶97vii0285
BJI	**VII**	**11 04 43 39.2**	**40.11N**	**113.22E**	**9**	**2.8L**			¶97vii1627
BJI	**VII**	**16 11 23 58.1**	**40.06N**	**113.39E**	**14**	**2.8L**			¶97vii2435
BJI	**VII**	**22 12 51 59.6**	**40.91N**	**111.17E**	**3**	**2.8L**			¶97vii3380
BJI	**VIII**	**09 23 16 35.0**	**40.76N**	**122.44E**	**17**	**3.1L**			¶97viii1318
BJI	**VIII**	**11 02 38 27.8**	**42.43N**	**128.00E**	**15**	**3.5L**			¶97viii1497
BJI	**VIII**	**15 16 29 28.9**	**40.21N**	**113.02E**	**8**	**2.9L**			¶97viii2238
BJI	**VIII**	**23 04 25 14.1**	**40.72N**	**122.68E**	**11**	**3.4L**			¶97viii3337
BJI	**VIII**	**28 00 39 41.8**	**40.66N**	**122.75E**	**14**	**3.1L**			¶97viii4063
ISC	**VIII**	**30 22 00 01.2**±.55	**44.58N**±.068	**113.5E**±.11	**15**	**3.9b**	**19**	**4-152**	
BJI	VIII	30 21 59 58.5	44.83N	113.58E	15	4.4L,4.4b			¶97viii4543
NEIC	VIII	30 22 00 00.0	44.52N	113.38E	10				
EIDC	VIII	30 22 00 00.8	44.5N	113.3E	0	3.9b,4.2L			
BJI	Ms4.0								
NEIC	Less reliable solution.								
BJI	**IX**	**01 04 49 00.2**	**41.96N**	**121.04E**	**14**	**2.9L**			¶97ix0045
BJI	**IX**	**06 11 16 56.4**	**41.87N**	**121.00E**	**13**	**2.9L**			¶97ix0906
ISC	**IX**	**08 22 59 59**±1.1	**40.5N**±.14	**112.8E**±.16	**10**	**3.5b**	**6**	**3-71**	
NEIC	IX	08 22 59 58.4	40.44N	112.86E	10	3.9b			¶97ix1291
EIDC	IX	08 22 59 58.6	40.4N	112.9E	0	3.4b,3.5L			
BJI	IX	08 23 00 00.9	40.15N	113.21E	16	3.0L			
NEIC	Poor solution.								
BJI	**IX**	**09 05 40 56.8**	**41.87N**	**121.25E**	**26**	**2.8L**			¶97ix1328
BJI	**IX**	**12 14 02 50.7**	**40.74N**	**122.85E**	**23**	**3.6L**			¶97ix1823
BJI	**IX**	**13 13 51 22.3**	**37.71N**	**115.05E**	**21**	**3.2L**			¶97ix1981
BJI	**IX**	**15 23 43 03.5**	**40.27N**	**113.84E**	**24**	**3.0L**			¶97ix2298
BJI	**IX**	**16 06 18 19.4**	**40.63N**	**115.80E**	**10**	**3.0L**			¶97ix2343
ISC	**IX**	**18 06 31 58**±1.5	**38.09N**±.044	**121.29E**±.052	**10**±9.4	**4.3b,**3.8s	**56**	**1-146**	
EIDC	IX	18 06 31 58.5	38.2N	121.3E	0	4.2b,4.2L			¶97ix2624
BJI	IX	18 06 31 58.6	37.99N	121.27E	15	4.7L,4.3b			
NEIC	IX	18 06 32 01.3	38.08N	121.20E	33	4.8b			
MOS	IX	18 06 32 01.7	38.1N	121.1E	33	5.0b			
BJI	Ms4.3								
BJI	**IX**	**20 10 41 51.4**	**40.18N**	**113.07E**	**15**	**2.8L**			¶97ix2931
BJI	**IX**	**21 23 55 01.5**	**40.02N**	**113.22E**	**7**	**2.9L**			¶97ix3189
BJI	**IX**	**23 02 21 37.9**	**39.36N**	**112.38E**	**10**	**3.1L**			¶97ix3357
BJI	**IX**	**30 14 50 43.4**	**42.22N**	**127.21E**	**16**	**2.9L**			¶97ix5253
BJI	**X**	**03 03 25 53.3**	**39.62N**	**122.62E**	**15**	**2.9L**			¶97x0378
ISC	**X**	**07 03 43 39.3**±.65	**41.92N**±.094	**121.07E**±.081	**29**	3.9b	**11**	**2-56**	
EIDC	X	07 03 43 38.1	42.0N	121.1E	0	3.8L,3.9b			¶97x1172
NEIC	X	07 03 43 39.5	41.93N	121.07E	33				
BJI	X	07 03 43 40.6	42.14N	120.99E	29	3.7L,3.7b			
NEIC	Less reliable solution.								
BJI	**X**	**12 09 59 14.6**	**40.05N**	**113.17E**	**16**	**3.0L**			¶97x2021
BJI	**X**	**17 14 41 04.9**	**39.70N**	**116.30E**	**14**	**2.8L**			¶97x3006
BJI	**X**	**21 14 12 12.6**	**39.96N**	**116.33E**	**4**	**3.1L**			¶97x3660
BJI	**X**	**25 01 42 59.8**	**37.69N**	**116.39E**	**24**	**3.6L**			¶97x4254
BJI	**X**	**29 11 42 59.4**	**39.91N**	**116.41E**	**10**	**3.5L**			¶97x4900
BJI	**X**	**30 09 19 08.7**	**40.69N**	**122.56E**	**14**	**3.1L**			¶97x5017
BJI	**X**	**31 07 40 33.1**	**40.67N**	**122.61E**	**15**	**2.9L**			¶97x5153
BJI	**X**	**31 19 44 41.9**	**40.47N**	**113.09E**	**23**	**2.6L**			¶97x5219
BJI	**XI**	**02 05 49 51.6**	**40.69N**	**112.60E**	**20**	**2.8L**			¶97xi0201
BJI	**XI**	**02 09 57 42.8**	**40.65N**	**112.55E**	**17**	**3.1L**			¶97xi0235
BJI	**XI**	**04 22 09 00.9**	**40.40N**	**112.73E**	**9**	**2.7L**			¶97xi0693
BJI	**XI**	**09 15 07 15.9**	**40.04N**	**118.81E**	**15**	**3.2L**			¶97xi1462
BJI	**XI**	**14 13 56 50.6**	**40.71N**	**122.64E**	**14**	**2.9L**			¶97xi2295
BJI	**XI**	**15 18 26 59.7**	**40.63N**	**122.90E**	**17**	**3.1L**			¶97xi2516
BJI	**XI**	**17 07 45 16.2**	**40.22N**	**116.19E**	**21**	**3.0L**			¶97xi2761
ISC	**XII**	**02 09 29 27**±2.2	**39.9N**±.14	**114.0E**±.18	**7**		**5**	**2-4**	
BJI	XII	02 09 29 33.2	39.93N	114.03E	7	3.3L			¶97xii0224
BJI	**XII**	**03 10 44 39.6**	**39.34N**	**115.16E**	**12**	**2.8L**			¶97xii0407
BJI	**XII**	**09 02 46 55.6**	**39.90N**	**113.99E**	**9**	**2.8L**			¶97xii2084
BJI	**XII**	**09 03 45 11.5**	**39.93N**	**114.07E**	**13**	**3.5L**			¶97xii2095
BJI	**XII**	**12 03 03 10.5**	**40.72N**	**122.77E**	**14**	**2.9L**			¶97xii2685
BJI	**XII**	**13 09 15 35.3**	**39.87N**	**118.79E**	**11**	**2.9L**			¶97xii2922
BJI	**XII**	**14 19 35 47.2**	**41.69N**	**121.70E**	**15**	**3.0L**			¶97xii3187
EIDC	XII	14 19 35 50.7±2.81	35.0N	118.0E	0	4.0b,4.0L			
EIDC	Error ellipse is semi−major=92.7km semi−minor=46.8km azimuth=58LO CONF								
BJI	**XII**	**22 06 47 10.9**	**43.57N**	**117.96E**	**11**	**3.1L**			¶97xii4374
BJI	**XII**	**27 20 51 35.7**	**39.61N**	**115.62E**	**15**	**2.9L**			¶97xii5346
BJI	**XII**	**31 00 20 37.0**	**39.30N**	**116.68E**	**25**	**3.0L**			¶97xii5804

(659) North Korea.

BJI	**X**	**08 18 54 09.1**	**42.17N**	**129.33E**	**5**	**3.6L**			¶97x1456
BJI	**XI**	**10 09 26 28.3**	**38.11N**	**125.22E**	**5**	**3.6L**			¶97xi1590

(660) Sea of Japan.

ISC	**VII**	**05 21 07 36.3**±.22	**37.12N**±.038	**135.39E**±.048	**386**±3.9	**3.5b**	**132**	**1-118**	
BJI	VII	05 21 07 35.5	36.99N	135.27E	391	4.4b			¶97vii0793
NEIC	VII	05 21 07 36.0	37.04N	135.31E	385	3.9b			
EIDC	VII	05 21 07 36.8	37.0N	135.4E	376	3.1b			
JMA	VII	05 21 07 36.9±.1	37.09N±.01	135.39E±.01	381±2				
ISC	**VII**	**25 10 51 22**±2.5	**37.0N**±.14	**135.4E**±.31	**394**±27		**35**	**2-10**	
JMA	VII	25 10 51 25.3±.4	37.03N±.02	135.75E±.05	393				¶97vii3816
ISC	**VII**	**25 11 40 56**±4.4	**37.4N**±.16	**135.1E**±.56	**411**±27		**39**	**3-10**	
JMA	VII	25 11 41 00.1±.3	37.45N±.01	135.55E±.04	414				¶97vii3820
ISC	**VII**	**31 02 08 09**±1.8	**36.9N**±.12	**135.3E**±.13	**2**		**15**	**1-2**	
JMA	VII	31 02 08 08.0±.3	36.96N±.02	135.31E±.02	2±3	2.8			¶97vii4662
ISC	**VII**	**31 05 29 38**±2.0	**36.9N**±.11	**135.3E**±.17	**0**		**15**	**1-2**	
JMA	VII	31 05 29 37.4±.4	36.96N±.02	135.29E±.03	0	2.9			¶97vii4681
ISC	**VII**	**31 08 38 01**±1.0	**36.96N**±.088	**135.37E**±.076	**2**		**18**	**1-4**	
JMA	VII	31 08 38 00.1±.4	36.98N±.02	135.31E±.02	2±4	2.9			¶97vii4706
ISC	**VIII**	**01 02 51 56**±2.2	**37.0N**±.12	**135.2E**±.20	**2**		**12**	**1-3**	
JMA	VIII	01 02 51 56.7±.8	37.00N±.04	135.26E±.07	2	2.8			¶97viii0017
ISC	**VIII**	**09 18 49 30**±5.4	**37.1N**±.17	**135.1E**±.79	**454**		**31**	**3-10**	
JMA	VIII	09 18 49 33.1±.3	37.16N±.02	135.60E±.05	454				¶97viii1302
ISC	**VIII**	**17 05 36 44**±6.3	**37.6N**±.13	**135.0E**±.57	**418**±46		**41**	**2-10**	
JMA	VIII	17 05 36 44.9±.4	37.65N±.02	135.05E±.04	413±5				¶97viii2490
ISC	**VIII**	**18 22 20 14.4**±.74	**36.47N**±.059	**135.89E**±.066	**15**		**26**	**0-3**	
JMA	VIII	18 22 20 14.0±.1	36.47N±.01	135.88E±.01	15±2	3.0			¶97viii2720
ISC	**VIII**	**19 08 44 21.6**±.42	**36.03N**±.041	**135.64E**±.037	**13**		**48**	**1-3**	
JMA	VIII	19 08 44 21.6±.1	36.01N±.00	135.67E±.00	13±2	3.5			¶97viii2784
ISC	**VIII**	**22 15 03 10.0**±.66	**36.30N**±.052	**136.00E**±.064	**9**		**28**	**0-3**	
JMA	VIII	22 15 03 09.7±.1	36.33N±.01	135.99E±.01	9±2	2.9			¶97viii3243
ISC	**VIII**	**24 02 20 24**±1.3	**35.3N**±.11	**131.02E**±.074	**9**		**16**	**1-3**	
JMA	VIII	24 02 20 23.7±.3	35.34N±.01	131.00E±.01	9±3	3.2			¶97viii3473
ISC	**VIII**	**27 23 39 16.1**±.30	**37.17N**±.041	**135.30E**±.060	**371**±4.9	**3.5b**	**112**	**1-80**	
BJI	VIII	27 23 39 14.4	36.99N	135.26E	391	4.3b			¶97viii4058
NEIC	VIII	27 23 39 16.0	37.18N	135.25E	371	3.8b			
EIDC	VIII	27 23 39 16.8	37.2N	135.3E	359	3.0b			
JMA	VIII	27 23 39 16.9±.1	37.15N±.01	135.31E±.01	364±2				
ISC	**IX**	**05 04 04 02.4**±.99	**37.32N**±.024	**134.54E**±.028	**32**±9.2	**4.1b,**3.9s	**133**	**1-151**	
BJI	IX	05 04 03 56.9	37.10N	135.09E	26	4.5b,4.3s			¶97ix0689
JMA	IX	05 04 04 00.1±.1	37.34N±.01	134.53E±.01	21	4.2			
NEIC	IX	05 04 04 01.1	37.38N	134.37E	26	4.6b			
EIDC	IX	05 04 04 02.6	37.5N	134.3E	25	3.7b,3.7L			
ISC	**IX**	**21 13 51 17**±1.5	**36.93N**±.084	**134.9E**±.15	**405**±15		**72**	**1-11**	
JMA	IX	21 13 51 19.6±.3	36.97N±.02	134.96E±.03	384±3				¶97ix3108
ISC	**IX**	**30 07 13 25.5**±.89	**37.0N**±.12	**135.8E**±.20	**407**±14	**3.2b**	**28**	**2-60**	
NEIC	IX	30 07 13 25.0	35.72N	134.67E	310				¶97ix5156
EIDC	IX	30 07 13 26.1	35.7N	134.7E	299	3.0b			

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC		Less reliable solution.						
ISC	**X**	**21 01 12 13**±4.4	**35.5N**±.27	**131.6E**±.25	**6**		**10**	**1-2**
JMA	X	21 01 12 14.0±.2	35.39N±.01	131.71E±.01	6±2	2.8		¶97x3583
ISC	**X**	**23 11 12 31.4**±.80	**36.9N**±.13	**135.5E**±.13	**368**±8.7	2.8b	**18**	**1-57**
EIDC	X	23 11 12 32.5	36.8N	135.4E	358	2.6b		¶97x3977
JMA	X	23 11 12 32.6±.3	36.86N±.02	135.61E±.03	359±3			
ISC	**X**	**25 15 45 25**±2.8	**35.4N**±.20	**131.7E**±.17	**7**		**8**	**1-2**
JMA	X	25 15 45 24.6±.2	35.39N±.01	131.71E±.01	7±2	3.0		¶97x4345
ISC	**XI**	**01 03 08 14**±2.0	**36.26N**±.090	**135.62E**±.099	**8**±16		**14**	**1-2**
JMA	XI	01 03 08 14.5±.1	36.25N±.00	135.64E±.00	13±2	3.2		¶97xi0020
ISC	**XI**	**06 13 53 00**±4.2	**37.3N**±.22	**135.4E**±.61	**385**		**13**	**2-6**
JMA	XI	06 13 53 01.1±.3	37.31N±.03	135.55E±.05	385			¶97xi0985
ISC	**XI**	**18 23 04 10**±1.9	**38.0N**±.26	**135.5E**±.22	**376**		**11**	**2-5**
JMA	XI	18 23 04 10.6±.3	38.00N±.04	135.53E±.04	376			¶97xi3080
ISC	**XI**	**23 18 44 39**±1.5	**36.1N**±.15	**133.75E**±.083	**12**±20		**12**	**0-2**
JMA	XI	23 18 44 38.9±.1	36.15N±.01	133.75E±.01	16±2	3.1		¶97xi4174
ISC	**XI**	**24 04 30 28**±2.6	**36.1N**±.21	**133.76E**±.091	**17**		**12**	**0-2**
JMA	XI	24 04 30 27.4±.1	36.15N±.01	133.75E±.00	17±1	2.9		¶97xi4265

(661) Near east coast of Eastern Russia.

ISC	**VIII 30 04 54 48.7**±.19	**43.50N**±.025	**135.70E**±.033	**350**±3.1	**4.9b**	**421**	**3-160**
MOS	VIII 30 04 54 47.7	43.5N	135.6E	339	5.2b		¶97viii4428
NEIC	VIII 30 04 54 48.2	43.50N	135.63E	345	5.1b		
BJI	VIII 30 04 54 48.9	43.48N	135.70E	377	5.2b		
EIDC	VIII 30 04 54 49.2	43.5N	135.7E	346	4.0b		
JMA	VIII 30 04 54 50.6±.1	43.26N±.01	136.18E±.03	388±3	5.6		
ISC	**X 01 06 05 47.5**±.28	**46.18N**±.028	**136.11E**±.034	**406**±3.8	**5.0b**	**437**	**4-160**
MOS	X 01 06 05 47.7	46.2N	136.2E	416	5.1b		¶97x0037
BJI	X 01 06 05 48.2	46.12N	136.15E	423	5.0b		
NEIC	X 01 06 05 48.3	46.22N	136.09E	416	5.2b		
JMA	X 01 06 05 48.7±.4	45.97N±.03	136.41E±.07	448			
EIDC	X 01 06 05 50.2	46.2N	136.1E	418	4.6b		
HRVD	X 01 06 05 59.1±.2	47.32N±.02	135.73E±.02	408±1.1			
NEIC	Mw5.5(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s5,c5; Mantle waves: s2,c2; Half duration: 1S3. Moment tensor: Scale 10^{17}Nm; M_{rr}0.27±.23; $M_{\theta\theta}$−1.58±.30; $M_{\phi\phi}$1.31±.32; $M_{r\theta}$−0.69±.21; $M_{r\phi}$−0.18±.20; $M_{\theta\phi}$−1.38±.37. Principal Axes: T 1.86,Plg3°,Azm248°; N 0.46,Plg74°,Azm145°; P −2.33,Plg15°,Azm339°. Best double couple: M0 2.1×10^{17}Nm, NP1:ϕ_S22°,δ77°,λ−8°. NP2:ϕ_S114°,δ82°,λ−167°.						
ISC	**XI 24 11 04 26.4**±.38	**43.61N**±.052	**134.09E**±.072	**443**±6.7	**3.7b**	**46**	**4-75**
BJI	XI 24 11 04 27.0	43.58N	133.97E	455	4.6b		¶97xi4304
NEIC	XI 24 11 04 27.1	43.65N	133.95E	450	4.1b		
JMA	XI 24 11 04 27.7±.4	43.52N±.04	134.52E±.07	475			
EIDC	XI 24 11 04 27.7	43.6N	133.9E	438	3.3b		

(662) Sakhalin.

SKHL	**VII 01 14 54 27.6**	**52.73N**±.02	**142.87E**±.06				¶97vii0107
SKHL	**VII 03 23 40 30.3**	**52.78N**±.05	**142.88E**±.01	**5**			¶97vii0468
SKHL	K7.6						
SKHL	**VII 07 11 30 32.7**	**52.85N**±.02	**142.81E**±.05	**8**±2			¶97vii1034
SKHL	K8.0						
SKHL	**VII 08 09 41 01.8**	**52.54N**±.02	**143.06E**±.07	**10**			¶97vii1168
SKHL	K8.0						
SKHL	**VII 08 10 50 28.4**	**52.52N**±.03	**142.81E**±.12	**12**±2			¶97vii1175
SKHL	K7.7						
ISC	**VII 10 16 09 23**±2.0	**51.55N**±.073	**143.0E**±.46	**4**±19		**6**	**1-8**
SKHL	VII 10 16 09 23.8	51.60N±.04	142.84E±.13	7±2			¶97vii1535
ISC	Poorly determined						
SKHL	K7.7						
ISC	**VII 10 22 17 02**±1.4	**51.52N**±.054	**143.2E**±.18	**7**±9.6	**3.5b**	**14**	**1-80**
SKHL	VII 10 22 17 02.8	51.54N±.04	143.03E±.13	10±2			¶97vii1577
NEIC	VII 10 22 17 06.5	51.66N	143.27E	33			
EIDC	VII 10 22 17 12.9	51.6N	143.2E	85	3.1b,3.8L		
SKHL	K8.4						
NEIC	Single network solution.						
SKHL	**VII 22 00 15 52.9**	**52.38N**±.02	**142.18E**±.08	**10**±2			¶97vii3301
SKHL	K7.7						
SKHL	**VII 25 03 56 17.7**	**48.06N**±.01	**143.41E**±.04	**8**±2			¶97vii3766
SKHL	K8.3						
SKHL	**VII 26 22 13 00.1**	**52.76N**±.10	**142.85E**±.01				¶97vii4015
SKHL	**VII 28 01 50 28.0**	**52.54N**±.05	**142.92E**±.01	**10**±2			¶97vii4194
SKHL	K7.9						
ISC	**VII 28 04 05 14**±1.4	**52.50N**±.077	**142.8E**±.27	**9**		**6**	**1-8**
SKHL	VII 28 04 05 13.6	52.51N±.02	142.93E±.06	9±2			¶97vii4208
ISC	Poorly determined						
SKHL	K8.2						
ISC	**VIII 01 02 49 24.0**±.21	**46.14N**±.032	**142.92E**±.054	**353**±3.1	**4.2b**	**157**	**1-148**
BJI	VIII 01 02 49 22.9	46.29N	142.99E	359	4.7b		¶97viii0015
SKHL	VIII 01 02 49 23.0	46.07N±.08	142.97E±.13	355±10			
NEIC	VIII 01 02 49 23.8	46.24N	142.90E	350	4.2b		
MOS	VIII 01 02 49 24.3	46.2N	142.8E	360	4.1b		
EIDC	VIII 01 02 49 24.4	46.2N	143.0E	347	3.8b		
JMA	VIII 01 02 49 25.1±.4	45.95N±.03	143.02E±.05	359±3			
SKHL	**VIII 01 16 09 17.8**	**47.14N**±.02	**142.60E**±.04	**10**			¶97viii0087
SKHL	K7.7 Felt I=II−III MSK at Sinegorsk, Sanatornii							
ISC	**VIII 04 14 56 33.6**±.46	**51.68N**±.050	**142.8E**±.11	**10**	**4.3b,3.6s**	**36**	**1-81**
MOS	VIII 04 14 56 32.9	51.7N	143.1E	10	4.7b		¶97viii0515
SKHL	VIII 04 14 56 33.6	51.66N±.05	142.53E±.22	11±2			
BJI	VIII 04 14 56 34.0	51.84N	142.77E	17	4.3b,4.6s		
NEIC	VIII 04 14 56 34.3	51.83N	142.52E	10	4.6b		
EIDC	VIII 04 14 56 34.5	51.8N	142.6E	0	4.1b,3.3s		
NEIC	Less reliable solution.							
ISC	**VIII 11 01 25 40.7**±.42	**46.80N**±.038	**143.66E**±.088	**8**	**4.0b**	**28**	**1-83**
EIDC	VIII 11 01 25 40.6	46.7N	143.6E	0	3.9b		¶97viii1488
JMA	VIII 11 01 25 42.5±.6	46.48N±.04	143.74E±.03	0	3.4		
SKHL	VIII 11 01 25 42.5	47.02N±.10	143.55E±.10	8			
MOS	VIII 11 01 25 44.1	46.7N	143.4E	33	4.5b		
NEIC	VIII 11 01 26 02.3	46.90N	143.27E	200	4.3b		
SKHL	K7.9 Felt I=III MSK at Lighthouse Tonina, Cape Svobodnii; I=I−II MSK at Lesnoe							
NEIC	Poor solution.							
ISC	**VIII 11 01 51 22**±1.6	**46.75N**±.062	**143.6E**±.19	**21**±17	**3.7b**	**13**	**1-61**
EIDC	VIII 11 01 51 02.0	43.6N	144.0E	0	3.8b		¶97viii1490
SKHL	VIII 11 01 51 21.1	46.74N±.04	143.60E±.03	9			
JMA	VIII 11 01 51 22.6±.5	46.49N±.03	143.74E±.02	0	2.8		
SKHL	K8.2						
ISC	**VIII 12 02 23 36.9**±.50	**52.77N**±.052	**142.8E**±.13	**10**	**4.0b**	**19**	**1-80**
BJI	VIII 12 02 23 30.4	52.20N	144.00E	10	4.1b,4.8s		¶97viii1665
SKHL	VIII 12 02 23 35.7	52.78N±.05	142.79E±.10	9±2			
NEIC	VIII 12 02 23 38.4	52.22N	144.38E	10			
EIDC	VIII 12 02 23 38.5	52.3N	144.4E	0	3.9b,4.4L		
SKHL	K9.5 Felt I=II−III MS at Okha							
NEIC	Less reliable solution.							
SKHL	**VIII 12 04 59 46.9**	**52.76N**±.01	**142.82E**±.02	**8**			¶97viii1682
SKHL	K8.1							
SKHL	**VIII 14 23 13 06.4**	**53.09N**±.03	**142.77E**±.03	**10**±2			¶97viii2127
SKHL	K7.7							
ISC	**VIII 16 05 38 16**±2.5	**46.7N**±.20	**143.6E**±.29	**5**		**11**	**1-4**
SKHL	VIII 16 05 38 15.9	47.05N±.05	143.66E±.04				¶97viii2321
JMA	VIII 16 05 38 17.6±.6	46.59N±.04	143.68E±.03	5	2.8		
ISC	**VIII 16 11 39 05**±1.3	**52.70N**±.065	**142.8E**±.26	**7**		**6**	**1-8**
SKHL	VIII 16 11 39 03.9	52.70N±.04	142.82E±.06	7±2			¶97viii2360
SKHL	K8.9							
SKHL	**VIII 16 16 08 39.8**	**54.89N**±.04	**142.27E**±.11	**12**±2			¶97viii2390
SKHL	K8.3							
ISC	**VIII 22 11 57 55**±1.4	**49.65N**±.066	**142.0E**±.49	**8**		**4**	**1-4**
SKHL	VIII 22 11 57 54.1	49.65N±.03	141.89E±.08	8±1			¶97viii3220
ISC	Poorly determined							
SKHL	K7.8							
SKHL	**VIII 24 21 57 49.8**	**46.87N**±.01	**142.25E**±.01	**7**±2			¶97viii3597
SKHL	K8.0 Felt I=II−III MSK at Chaplanovo							
SKHL	**VIII 25 23 02 37.4**	**52.51N**±.01	**142.77E**±.04	**11**±2			¶97viii3750
SKHL	K8.0							
ISC	**VIII 26 20 05 33.7**±.37	**46.80N**±.039	**143.8E**±.10	**401**±4.6	**3.5b**	**84**	**1-75**
BJI	VIII 26 20 05 33.1	46.98N	143.76E	394	4.3b		¶97viii3899
NEIC	VIII 26 20 05 33.9	46.84N	143.84E	400			
SKHL	VIII 26 20 05 34.0	46.87N±.09	143.78E±.14	388±5			
EIDC	VIII 26 20 05 36.0	46.9N	143.8E	402	3.2b		
JMA	VIII 26 20 05 36.3±.3	46.49N±.03	143.84E±.05	402±3			
NEIC	Less reliable solution.							
SKHL	**VIII 28 14 35 52.3**	**53.21N**±.03	**142.64E**±.04	**6**±1			¶97viii4146
SKHL	K7.8							
SKHL	**VIII 28 16 10 11.2**	**53.20N**±.03	**142.64E**±.07	**7**			¶97viii4157
SKHL	K7.8							
SKHL	**IX 02 02 24 21.3**	**52.52N**±.02	**142.72E**±.05	**10**±2			¶97ix0207
SKHL	K7.7							
SKHL	**IX 03 03 09 43.8**	**53.19N**±.08	**142.65E**±.19				¶97ix0370
SKHL	**IX 05 04 37 05.1**	**53.13N**±.03	**142.65E**±.01	**10**±2			¶97ix0694
SKHL	K7.6							
SKHL	**IX 10 16 53 50.4**	**52.69N**±.04	**142.87E**±.10	**10**			¶97ix1551
SKHL	K7.9							
SKHL	**IX 11 01 34 17.0**	**52.69N**±.02	**142.67E**±.08	**10**			¶97ix1609
SKHL	K8.0							
SKHL	**IX 11 02 12 46.3**	**52.73N**±.02	**142.89E**±.06	**10**			¶97ix1613
SKHL	K7.7							
ISC	**IX 12 10 10 08**±1.6	**51.60N**±.056	**142.6E**±.15	**11**±11	**4.1b**	**22**	**1-81**
SKHL	IX 12 10 10 06.5	51.68N±.04	142.53E±.10	10±2			¶97ix1800
MOS	IX 12 10 10 06.7	51.7N	143.9E	33	4.4b		
EIDC	IX 12 10 10 08.8	51.6N	142.7E	0	3.9b,3.9L		
NEIC	IX 12 10 10 11.6	51.71N	142.51E	33	4.2b		
SKHL	K9.1							
NEIC	Less reliable solution.							
ISC	**IX 13 12 32 03**±1.3	**49.55N**±.071	**142.1E**±.57	**6**		**4**	**0-4**
SKHL	IX 13 12 32 02.6	49.57N±.02	142.18E±.07	6			¶97ix1969
ISC	Poorly determined							
SKHL	K7.7							
SKHL	**IX 25 10 47 13.2**	**52.51N**±.03	**142.66E**±.07	**6**			¶97ix3724
SKHL	K8.1							
ISC	**IX 29 19 43 42**±1.3	**51.36N**±.060	**142.7E**±.45	**7**		**5**	**1-4**
SKHL	IX 29 19 43 41.3	51.41N±.05	142.76E±.11	7±1			¶97ix5010
SKHL	K7.9 Felt I=III MSK at Argi−Pagi, Chir−Unvd							
SKHL	**IX 29 21 20 58.3**	**51.34N**±.01	**142.43E**±.09	**11**			¶97ix5026
SKHL	K7.3 Felt I=II−III MSK at Argi−Pagi, Chir−Unvd							
SKHL	**X 09 21 53 58.7**	**52.76N**±.05	**142.72E**±.11	**9**±2			¶97x1647
SKHL	K8.4							
ISC	**X 19 16 18 12**±1.5	**48.9N**±.11	**142.7E**±.24	**9**		**4**	**0-4**
SKHL	X 19 16 18 12.2	48.92N±.04	142.78E±.05	9±2			¶97x3366
ISC	Poorly determined							
SKHL	K7.7							
SKHL	**XI 02 07 15 28.2**	**53.06N**±.01	**142.71E**±.03	**9**±2			¶97xi0213
SKHL	K7.9							
SKHL	**XI 09 15 09 46.2**	**52.77N**±.02	**142.68E**±.05	**10**			¶97xi1464
SKHL	K7.7							
SKHL	**XI 12 01 25 37.0**	**52.76N**±.07	**142.92E**±.17	**7**±2			¶97xi1913
SKHL	K8.1							
SKHL	**XI 13 08 51 15.6**	**53.00N**±.08	**142.89E**±.20				¶97xi2104
SKHL	**XI 13 13 02 23.4**	**53.11N**±.02	**142.66E**±.05				¶97xi2138
SKHL	**XI 13 14 26 07.3**	**53.13N**±.04	**142.67E**±.09	**10**±2			¶97xi2152
SKHL	K7.7							
SKHL	**XI 16 14 31 00.1**	**52.57N**±.07	**142.65E**±.16	**10**±2			¶97xi2657
SKHL	K7.8							
SKHL	**XI 19 11 50 17.7**	**51.91N**±.08	**143.12E**±.21				¶97xi3208
ISC	**XI 19 13 29 38**±1.5	**46.4N**±.14	**141.1E**±.33	**33**	3.2b	**4**	**10-42**
EIDC	XI 19 13 29 35.3	46.5N	141.2E	0	3.3b,3.7L		¶97xi3229
ISC	Poorly determined							
SKHL	**XI 23 20 43 34.9**	**52.72N**±.06	**142.70E**±.19	**8**±2			¶97xi4193
SKHL	K7.8							
ISC	**XII 01 23 37 47**±1.6	**52.50N**±.085	**142.6E**±.21	**0**		**4**	**1-8**
SKHL	XII 01 23 37 47.1	52.50N±.08	142.56E±.10				¶97xii0159
ISC	Poorly determined							
SKHL	**XII 02 15 41 24.5**	**52.70N**±.02	**142.74E**±.05				¶97xii0275
SKHL	**XII 04 15 49 05.4**	**52.55N**±.02	**142.96E**±.02				¶97xii0641
SKHL	**XII 04 23 20 53.9**	**52.82N**±.04	**142.20E**±.09	**8**±2			¶97xii0718
SKHL	K8.2							
SKHL	**XII 07 09 22 09.3**	**52.72N**±.01	**142.85E**±.03				¶97xii1667
SKHL	**XII 12 15 58 42.1**	**52.51N**±.03	**142.87E**±.11				¶97xii2776
ISC	**XII 13 18 01 27.8**±.62	**46.03N**±.087	**143.7E**±.18	**346**±7.3	**3.1b**	**22**	**1-70**
SKHL	XII 13 18 01 26.0	46.11N±.05	144.08E±.09	354±10			¶97xii2988
EIDC	XII 13 18 01 29.1±.98	46.2N	143.6E	334±6.4	2.9b		
JMA	XII 13 18 01 29.9±.3	45.84N±.03	143.55E±.06	343			
EIDC	Error ellipse is semi−major=35.6km semi−minor=20.9km azimuth=107							
ISC	**XII 17 20 09 44**±1.1	**47.67N**±.097	**142.0E**±.27	**8**	**3.5b,**3.0s	**10**	**1-83**
SKHL	XII 17 20 09 40.9	47.51N±.07	142.45E±.41	8±2			¶97xii3656
EIDC	XII 17 20 09 44.2±1.09	47.5N	142.2E	0	3.4b,3.1s		
SKHL	K8.3 Felt I=IV−V at Bikov, IV at Chekhov, II−III Sinegorsk							
EIDC	Error ellipse is semi−major=32.3km semi−minor=23.2km azimuth=94							
SKHL	**XII 21 19 54 04.4**	**52.58N**±.02	**142.80E**±.05	**6**			¶97xii4298
SKHL	K8.2							

SKHL	**XII**	**22 05 33 34.8**	**50.98N**±.01	**143.63E**±.03					**¶97xii4360**

(663) Sea of Okhotsk.

ISC	**VII**	**02 06 42 01**±1.3	**52.7N**±.18	**144.0E**±.28	**33**	**3.6b**	**5**	**19-56**	
EIDC	VII	02 06 41 58.6	52.7N	144.0E	0	3.4b,3.8L			**¶97vii0193**
ISC	**VIII**	**14 09 46 50.1**±.50	**53.1N**±.13	**153.6E**±.16	**493**±9.2	**3.6b**	**18**	**3-78**	
KRSC	VIII	14 09 46 45.8	53.20N	153.57E	552	4.5b			**¶97viii2040**
NEIC	VIII	14 09 46 46.9	53.05N	153.56E	450				
EIDC	VIII	14 09 46 48.7	53.1N	153.5E	455	3.2b			
SKHL	VIII	14 09 46 51.0	53.5N±.04	153.3E±.04	473±6				
NEIC	Single network solution.								
ISC	**IX**	**09 13 38 46.6**±.47	**46.45N**±.060	**144.6E**±.12	**390**±5.9	**3.6b**	**59**	**1-83**	
SKHL	IX	09 13 38 45.0	46.7N±.05	145.5E±.12	365±1				**¶97ix1383**
NEIC	IX	09 13 38 45.7	46.60N	144.49E	372	4.4b			
EIDC	IX	09 13 38 46.2	46.6N	144.6E	360	3.1b			
JMA	IX	09 13 38 47.2±.3	46.26N±.03	144.63E±.05	403				
NEIC	Less reliable solution.								
ISC	**X**	**09 07 53 27**±3.4	**46.6N**±.34	**145.2E**±.40	**396**		**13**	**3-8**	
JMA	X	09 07 53 28.7±.4	46.48N±.05	145.25E±.07	396				**¶97x1552**
ISC	**X**	**18 10 08 24.9**±.26	**46.99N**±.042	**145.66E**±.045	**386**±3.7	**4.5b**	**205**	**2-153**	
SKHL	X	18 10 08 24.0	46.9N±.11	146.0E±.19	393±4				**¶97x3135**
BJI	X	18 10 08 24.7	47.12N	145.44E	366	4.8b			
EIDC	X	18 10 08 25.1	47.1N	145.8E	378	4.0b			
MOS	X	18 10 08 25.3	47.1N	145.8E	391	4.6b			
NEIC	X	18 10 08 25.3	47.07N	145.63E	391	4.6b			
JMA	X	18 10 08 26.9±.4	46.45N±.03	145.89E±.04	406±4	4.7			
ISC	**XI**	**01 09 58 29.0**±.44	**46.90N**±.066	**144.8E**±.14	**400**±5.7	**3.3b**	**33**	**1-82**	
NEIC	XI	01 09 58 29.0	47.00N	144.68E	400	3.5b			**¶97xi0055**
EIDC	XI	01 09 58 29.9	47.0N	144.7E	394	3.0b			
SKHL	XI	01 09 58 30.0	47.2N±.07	144.8E±.11	392±3				
JMA	XI	01 09 58 31.4±.4	46.44N±.05	144.82E±.05	418				
NEIC	Less reliable solution.								
ISC	**XI**	**10 09 51 35.7**±.77	**53.4N**±.16	**144.5E**±.28	**33**	**3.8b**	**8**	**17-79**	
EIDC	XI	10 09 51 32.7	53.5N	144.4E	0	3.7b,4.0L			**¶97xi1592**
NEIC	XI	10 09 51 34.9	53.42N	144.51E	33	4.1b			
NEIC	Poor solution.								
ISC	**XI**	**26 14 46 38.9**±.28	**47.19N**±.042	**145.92E**±.056	**399**±3.8	**4.5b**	**148**	**2-146**	
BJI	XI	26 14 46 38.0	47.38N	145.89E	396	4.8b			**¶97xi4706**
NEIC	XI	26 14 46 38.8	47.28N	145.85E	396	4.6b			
SKHL	XI	26 14 46 39.0	47.2N±.10	145.9E±.18	406±2				
MOS	XI	26 14 46 39.3	47.3N	145.9E	405	5.0b			
JMA	XI	26 14 46 39.5±.3	46.72N±.03	146.10E±.05	437	4.9			
EIDC	XI	26 14 46 40.1	47.3N	145.8E	397	4.1b			
ISC	**XI**	**28 06 10 47.5**±.24	**47.11N**±.028	**145.60E**±.035	**391**±2.9	**5.2b**	**536**	**2-153**	
BJI	XI	28 06 10 46.8	47.25N	145.59E	394	5.6b			**¶97xi5024**
JMA	XI	28 06 10 46.9±.3	46.73N±.03	145.86E±.04	438±3	5.6			
SKHL	XI	28 06 10 47.0	47.0N±.25	145.7E±.35	403±7				
NEIC	XI	28 06 10 47.5	47.14N	145.60E	394	5.4b			
MOS	XI	28 06 10 48.6	47.1N	145.7E	407	5.7b			
EIDC	XI	28 06 10 49.6	47.3N	145.5E	402	4.6b			
HRVD	XI	28 06 10 50.8±.3	46.96N±.03	145.81E±.05	401±1.7				
NEIC	Mw5.5(HRV).								
NEIC	Felt I=II J1 in southeastern Hokkaido. Also felt II J1 in northern Aomori Prefecture, Honshu.								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c58; Half duration: 1s4. Moment tensor: Scale 10^{17}Nm; M_{rr}−1.17±.05; $M_{\theta\theta}$0.61±.08; $M_{\phi\phi}$0.56±.08; $M_{r\theta}$−0.81±.08; $M_{r\phi}$−1.72±.07; $M_{\theta\phi}$0.22±.06. Principal Axes: T 1.92,Plg31°,Azm121°; N 0.42, Plg4°,Azm29°; P −2.35,Plg58°,Azm292°. Best double couple: $M_0$2.1×10^{17}Nm, NP1:ϕ_S225°, δ14°,λ−73°. NP2:ϕ_S28°,δ77°,λ−94°.								
ISC	**XII**	**09 14 16 54.2**±.69	**46.23N**±.080	**144.4E**±.20	**384**±9.4	**3.6b**	**33**	**1-62**	
EIDC	XII	09 14 16 56.2±2.04	46.4N	144.4E	378±22.9	3.2b			**¶97xii2186**
JMA	XII	09 14 16 56.5±.3	46.03N±.02	144.45E±.06	369				
EIDC	Error ellipse is semi−major=47.4km semi−minor=29.0km azimuth=168								
ISC	**XII**	**14 06 32 59.1**±.57	**46.9N**±.11	**145.5E**±.16	**414**±10	**3.3b**	**27**	**2-82**	
EIDC	XII	14 06 33 01.0±1.51	47.3N	145.4E	397±18.2	3.0b			**¶97xii3100**
JMA	XII	14 06 33 02.5±.4	46.47N±.05	145.45E±.07	417				
EIDC	Error ellipse is semi−major=24.2km semi−minor=22.0km azimuth=124								
ISC	**XII**	**20 13 26 31.1**±.27	**53.43N**±.029	**152.74E**±.030	**605**±3.9	**5.1b**	**580**	**3-161**	
MOS	XII	20 13 26 31.0	53.4N	152.8E	605	5.5b			**¶97xii4121**
SKHL	XII	20 13 26 31.0	53.1N±.16	153.1E±.28	611±12				
BJI	XII	20 13 26 31.5	53.44N	152.79E	627	5.5b			
NEIC	XII	20 13 26 31.5	53.42N	152.76E	614	5.1b			
EIDC	XII	20 13 26 32.9±.75	53.4N	152.8E	607±7.3	4.6b			
HRVD	XII	20 13 26 34.9±.1	53.40N±.01	152.71E±.02	623±1.0				
NEIC	Mw5.9(GS), Mw5.9(HRV).								
NEIC	Moment tensor solution: s15, scale 10^{17}Nm; M_{rr}−8.84; $M_{\theta\theta}$7.13; $M_{\phi\phi}$1.68; $M_{r\theta}$0.42; $M_{r\phi}$−3.32; $M_{\theta\phi}$−1.01. Depth 612km; Principal axes: T 7.38,Plg4°,Azm12°; N 2.42,Plg16°, Azm103°; P −9.80,Plg74°,Azm269°. Best double couple: $M_0$8.6×10^{17}Nm; NP1:ϕ_S86°,δ43°, λ−113°. NP2:ϕ_S297°,δ51°,λ−70°.								
EIDC	Error ellipse is semi−major=9.2km semi−minor=6.6km azimuth=128								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c105; Mantle waves: s19,c24; Half duration: 2s2. Moment tensor: Scale 10^{17}Nm; M_{rr}−7.91±.09; $M_{\theta\theta}$8.22±.13; $M_{\phi\phi}$−0.30±.14; $M_{r\theta}$−0.20±.14; $M_{r\phi}$−2.73±.15; $M_{\theta\phi}$−1.09±.13. Principal Axes: T 8.36,Plg1°,Azm7°; N 0.45,Plg18°,Azm98°; P −8.81,Plg72°,Azm276°. Best double couple: $M_0$8.6×10^{17}Nm, NP1:ϕ_S80°,δ47°,λ−115°. NP2:ϕ_S294°,δ48°,λ−65°.								
ISC	**XII**	**28 06 51 15**±1.0	**53.3N**±.20	**154.2E**±.35	**450**	**3.2b**	**5**	**20-79**	
EIDC	XII	28 06 51 15.0±7.38	53.2N	154.1E	441±96.4	2.8b			**¶97xii5413**
EIDC	Error ellipse is semi−major=45.7km semi−minor=21.1km azimuth=133								

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ISC	**VII**	**24 14 50 23**±1.5	**29.3N**±.14	**119.5E**±.28	**33**	3.5b	**4**	**11-54**	
EIDC	VII	24 14 50 21.4	29.2N	119.6E	0	3.5b,4.2L			**¶97vii3683**
ISC	Poorly determined								
BJI	**VIII**	**01 19 17 36.8**	**35.51N**	**118.75E**	**27**	**3.2L**			**¶97viii0103**
ISC	**VIII**	**03 13 35 15.7**±.65	**31.31N**±.082	**121.96E**±.092	**10**	**3.8b**,2.6s	**18**	**1-78**	
NEIC	VIII	03 13 35 15.9	31.35N	122.18E	10				**¶97viii0367**
EIDC	VIII	03 13 35 16.6	31.2N	122.0E	0	3.7b,2.6s			
BJI	VIII	03 13 35 20.6	31.31N	121.55E	10	3.9L,4.3b			
NEIC	Less reliable solution.								
BJI	Ms4.2								
BJI	**VIII**	**10 02 19 38.1**	**30.84N**	**111.36E**	**20**	**3.1L**			**¶97viii1339**
ISC	**VIII**	**10 03 29 30**±2.6	**31.0N**±.22	**111.5E**±.16	**6**		**5**	**2-8**	
BJI	VIII	10 03 29 31.3	31.10N	111.55E	6	3.7L,3.7s			**¶97viii1345**
ISC	**VIII**	**10 03 39 43**±5.1	**30.5N**±.63	**110.9E**±.33	**5**		**5**	**3-8**	
BJI	VIII	10 03 39 46.5	31.09N	111.34E	5	3.5L			**¶97viii1347**
ISC	Poorly determined								
BJI	**VIII**	**10 14 10 24.8**	**30.82N**	**111.31E**	**14**	**3.0L**			**¶97viii1400**
BJI	**VIII**	**11 10 02 50.3**	**24.35N**	**105.48E**	**2**	**3.6L,4.2s**			**¶97viii1543**
BJI	**VIII**	**12 21 41 59.3**	**30.89N**	**111.16E**	**20**	**2.8L**			**¶97viii1810**
BJI	**VIII**	**14 05 37 49.1**	**24.11N**	**105.90E**	**20**	**3.0L**			**¶97viii2015**
BJI	**VIII**	**21 15 48 43.5**	**24.37N**	**112.76E**	**8**	**4.1L**			**¶97viii3115**
BJI	**VIII**	**23 12 54 35.7**	**24.42N**	**113.04E**	**3**	**3.7L**			**¶97viii3406**
BJI	**VIII**	**27 19 01 03.5**	**31.01N**	**117.53E**	**5**	**3.3L**			**¶97viii4025**
BJI	**IX**	**19 15 15 27.1**	**34.96N**	**117.33E**	**14**	**3.3L**			**¶97ix2805**
BJI	**IX**	**24 05 51 12.6**	**27.27N**	**117.29E**	**17**	**4.2L**			**¶97ix3530**
BJI	**X**	**12 11 52 36.4**	**36.87N**	**111.75E**	**6**	**3.2L**			**¶97x2035**
BJI	**X**	**16 16 45 37.4**	**35.37N**	**116.67E**	**25**	**2.7L**			**¶97x2858**
BJI	**X**	**20 13 11 55.1**	**32.00N**	**120.77E**	**18**	**3.2L**			**¶97x3499**
BJI	**X**	**20 15 57 58.8**	**31.94N**	**120.75E**	**18**	**3.2L**			**¶97x3523**
BJI	**X**	**20 18 25 18.5**	**31.91N**	**120.78E**	**18**	**2.8L**			**¶97x3541**
BJI	**X**	**29 08 38 42.4**	**36.50N**	**114.30E**	**10**	**4.1L**			**¶97x4882**
BJI	**XI**	**02 23 02 10.7**	**36.19N**	**119.22E**	**25**	**3.4L**			**¶97xi0353**
ISC	**XI**	**22 12 53 47**±4.7	**26.83N**±.078	**104.3E**±.11	**14**±31	**3.6b**,3.1s	**14**	**2-74**	
EIDC	XI	22 12 53 47.1	26.8N	104.3E	0	3.5b,3.0s			**¶97xi3880**
BJI	XI	22 12 53 48.7	26.97N	104.32E	24	4.0L,4.2s			
NEIC	XI	22 12 53 50.0	26.80N	104.27E	33	3.7b			
NEIC	Less reliable solution.								
BJI	**XI**	**22 20 11 40.2**	**36.22N**	**122.44E**	**11**	**3.3L**			**¶97xi3955**
BJI	**XII**	**13 00 46 26.3**	**33.30N**	**116.77E**	**15**	**3.8L**			**¶97xii2850**
BJI	**XII**	**19 20 34 06.6**	**36.15N**	**119.31E**	**10**	**3.5L**			**¶97xii4034**
BJI	**XII**	**23 01 48 42.2**	**34.47N**	**115.97E**	**11**	**3.4L**			**¶97xii4515**
BJI	**XII**	**23 18 48 49.5**	**35.75N**	**110.91E**	**5**	**2.8L**			**¶97xii4641**
BJI	**XII**	**28 21 07 23.0**	**20.09N**	**109.43E**	**13**	**4.3L**			**¶97xii5498**

(665) Yellow Sea.

BJI	**VII**	**13 00 08 14.8**	**36.26N**	**123.36E**	**17**	**3.2L**			**¶97vii1894**
BJI	**VII**	**27 17 24 08.1**	**33.94N**	**122.72E**	**15**	**3.5L**			**¶97vii4142**
ISC	**VII**	**27 18 31 59**±1.8	**33.55N**±.035	**122.23E**±.032	**0**±12	**4.3b,4.8s**	**120**	**3-99**	
BJI	VII	27 18 31 59.5	33.56N	122.36E	12	5.2L,4.8b			**¶97vii4150**
MOS	VII	27 18 32 00.3	33.5N	122.3E	10	5.1b,4.9s			
EIDC	VII	27 18 32 00.3	33.6N	122.2E	0	4.1b,4.3L			
NEIC	VII	27 18 32 00.4	33.56N	122.19E	10	4.8b,4.3s			
BJI	Ms5.1								
NEIC	Felt in eastern Jiangsu Province and at Shanghai, China.								
BJI	**VII**	**28 23 20 05.4**	**33.72N**	**122.35E**	**15**	**3.3L**			**¶97vii4339**
BJI	**VII**	**29 16 47 52.6**	**33.70N**	**122.23E**	**24**	**3.5L,3.1s**			**¶97vii4451**
ISC	**VIII**	**09 04 14 57**±1.2	**35.1N**±.16	**124.7E**±.11	**10**	**3.9b**	**9**	**3-72**	
BJI	VIII	09 04 14 52.2	35.13N	124.71E	9	4.1L,4.0b			**¶97viii1200**
NEIC	VIII	09 04 14 56.6	35.14N	124.73E	10				
EIDC	VIII	09 04 14 57.8	35.2N	124.8E	0	3.9b,3.6L			
NEIC	Single network solution.								
BJI	**IX**	**13 20 17 38.6**	**33.78N**	**122.31E**	**5**	**2.9L**			**¶97ix2033**

(666) Off coast of Eastern China.

BJI	**IX**	**18 22 02 09.1**	**31.58N**	**122.98E**	**15**	**3.5L**			**¶97ix2718**
BJI	**XII**	**03 13 34 29.5**	**31.81N**	**123.81E**	**15**	**3.4L**			**¶97xii0429**
BJI	**XII**	**03 20 48 57.7**	**31.74N**	**124.04E**	**15**	**3.9L**			**¶97xii0501**
ISC	**XII**	**21 10 14 47**±3.3	**31.93N**±.086	**123.3E**±.11	**16**±24	**4.0b**	**20**	**2-72**	
BJI	XII	21 10 14 43.3	31.84N	123.69E	12	4.2L			**¶97xii4239**
EIDC	XII	21 10 14 46.9±.81	31.9N	123.3E	0	3.8b,3.5s			
NEIC	XII	21 10 14 49.4	31.98N	123.42E	33				
EIDC	Error ellipse is semi−major=31.7km semi−minor=15.0km azimuth=76								
NEIC	Single network solution.								

SEISMIC REGION 42.
NORTHEASTERN ASIA, NORTHERN ALASKA TO GREENLAND.

(670) Near north coast of Eastern Siberia.

ISC	**X**	**28 15 51 20.0**±.66	**67.2N**±.23	**173.5W**±.21	**33**	**3.9b**	**12**	**11-95**	
EIDC	X	28 15 51 17.1	67.1N	173.6W	0	3.9b,3.9L			**¶97x4785**
NEIC	X	28 15 51 19.5	67.14N	173.30W	33				
NEIC	Single network solution.								
ISC	**XI**	**02 03 45 37.0**±.50	**66.99N**±.089	**173.7W**±.16	**10**	**4.0b**	**31**	**4-73**	
NEIC	XI	02 03 45 35.2	67.05N	172.99W	10	4.1b			**¶97xi0191**
EIDC	XI	02 03 45 37.5	67.0N	173.9W	0	4.0b,4.1L			

(671) Eastern Siberia.

ISC	**VIII**	**22 21 03 33**±4.5	**61.8N**±.33	**173.2E**±.26	**48**±41	**4.0b**	**10**	**15-63**	
EIDC	VIII	22 21 03 29.6	62.0N	173.1E	0	4.0b,3.4L			**¶97viii3284**
ISC	**XI**	**22 11 41 19**±3.0	**61.2N**±.24	**155.4E**±.43	**37**±30	**3.7b**	**7**	**3-146**	
EIDC	XI	22 11 41 15.3	61.1N	155.5E	0	3.7b,3.7L			**¶97xi3864**

(673) Bering Strait.

ISC	**XI**	**21 01 41 06**±2.6	**65.0N**±.18	**168.6W**±.54	**10**	**3.5b**	**14**	**1-53**	
EIDC	XI	21 01 41 00.8	65.6N	169.8W	0	3.6b,3.5L			**¶97xi3564**
NEIC	XI	21 01 41 05.0	64.99N	168.70W	10	3.6b			
NEIC	Poor solution.								

(676) Alaska.

ISC	**VII**	**04 15 18 56.9**±.74	**66.11N**±.060	**149.0W**±.12	**10**		**30**	**1-4**	
NEIC	VII	04 15 18 58.0	66.07N	149.02W	10				**¶97vii0581**
NEIC	M_L2.9(AEIC), After AEIC.								
ISC	**VII**	**12 03 45 54**±3.8	**71.9N**±.28	**155.2W**±.77	**20**±35	3.1b	**6**	**1-51**	
NEIC	VII	12 03 45 53.2	71.94N	155.13W	10				**¶97vii1770**
EIDC	VII	12 03 46 03.4	71.7N	154.3W	62	3.7L,2.9b			
NEIC	Poor solution.								
ISC	**VII**	**14 21 55 57**±1.5	**64.9N**±.13	**164.8W**±.25	**10**	**3.7b**	**17**	**0-52**	
NEIC	VII	14 21 55 56.7	64.96N	164.72W	10				**¶97vii2211**
EIDC	VII	14 21 56 03.7	64.4N	163.2W	0	3.4b,3.1L			
NEIC	M_L4.4(AEIC), Less reliable solution.								
NEIC	Felt at Nome.								
ISC	**VII**	**15 06 07 56**±1.4	**66.3N**±.13	**155.9W**±.20	**88**±27		**18**	**1-9**	
NEIC	VII	15 06 07 58.2	66.42N	155.54W	70				**¶97vii2261**
NEIC	After AEIC.								
ISC	**VII**	**23 18 48 06**±5.1	**66.0N**±.74	**153.9W**±.94	**29**±55		**5**	**0-5**	
NEIC	VII	23 18 48 05.8	65.83N	153.77W	10				**¶97vii3568**
ISC	Poorly determined								
NEIC	M_L3.0(PMR), Less reliable solution.								
ISC	**VIII**	**12 21 53 43.9**±.80	**67.3N**±.12	**165.9W**±.21	**10**	**3.8b**	**12**	**3-75**	
NEIC	VIII	12 21 53 43.8	67.30N	165.98W	10				**¶97viii1811**
EIDC	VIII	12 21 53 45.3	67.6N	165.9W	0	3.8b,4.1L			
NEIC	Less reliable solution.								

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 18 12 20 26**±7.7	**68.5N**±.26	**144.8W**±.40	**4**±53	3.3b	**9**	**4-46**
PGC	VIII 18 12 20 16.9	69.5N	147.3W	10	3.3L		¶97viii2677
NEIC	VIII 18 12 20 26.4	68.54N	144.82W	10			
EIDC	VIII 18 12 20 32.6	68.0N	143.7W	0	3.4L,3.1b		
PGC	Northern Alaska.						
NEIC	Less reliable solution.						
ISC	**VIII 21 14 31 05**±1.1	**65.25N**±.077	**146.7W**±.15	**5**±11		**12**	**1-2**
NEIC	VIII 21 14 31 05.4	65.21N	146.53W	7			¶97viii3106
NEIC	ML2.5(AEIC), After AEIC.						
ISC	**VIII 21 16 31 18**±1.1	**65.25N**±.082	**146.7W**±.15	**7**±10		**14**	**1-3**
NEIC	VIII 21 16 31 18.5	65.20N	146.50W	0			¶97viii3121
NEIC	ML2.5(AEIC), After AEIC.						
ISC	**IX 19 11 25 43**±1.5	**66.15N**±.091	**147.5W**±.22	**19**±20		**17**	**1-4**
NEIC	IX 19 11 25 41.7	66.16N	147.55W	6			¶97ix2787
NEIC	ML2.6(AEIC), After AEIC.						
NEIC	**IX 27 12 43 27.0**	**67.44N**	**147.87W**	**10**			**3-6**
NEIC	ML3.5(PMR), Poor solution.						¶97ix4357
ISC	**IX 27 23 36 01**±1.3	**65.76N**±.088	**148.0W**±.21	**9**		**13**	**1-2**
NEIC	IX 27 23 36 00.9	65.75N	147.97W	9			¶97ix4482
NEIC	ML2.5(AEIC), After AEIC.						
ISC	**X 10 20 00 29**±1.1	**67.10N**±.093	**143.0W**±.14	**10**		**25**	**1-7**
NEIC	X 10 20 00 28.9	67.24N	143.27W	10			¶97x1795
PGC	X 10 20 00 30.1	67.1N	143.0W	10	3.7L		
NEIC	ML3.8(AEIC), After AEIC.						
PGC	Northeastern Alaska.						
ISC	**X 11 02 52 59**±2.9	**67.3N**±.23	**142.7W**±.24	**10**		**12**	**3-11**
NEIC	X 11 02 52 55.7	67.48N	142.30W	10			¶97x1833
PGC	X 11 02 53 04.0	67.1N	142.6W	10	3.6L		
NEIC	ML4.1(PMR), Poor solution.						
PGC	Northeastern Alaska.Unlocated aftershock at 03:26.						
ISC	**X 12 04 54 33**±1.2	**65.17N**±.054	**149.0W**±.10	**9**±8.0		**41**	**0-6**
NEIC	X 12 04 54 32.7	65.19N	149.06W	11			¶97x1990
NEIC	ML3.5(PMR), ML3.2(AEIC), After AEIC.						
ISC	**X 22 17 17 17.4**±.71	**66.44N**±.049	**154.8W**±.12	**16**	**3.6b**	**62**	**1-80**
NEIC	X 22 17 17 20.6	66.32N	154.47W	16			¶97x3855
EIDC	X 22 17 17 22.1	66.3N	153.9W	0	3.6b,4.1L		
NEIC	ML4.4(PMR), ML4.3(AEIC). Felt, After AEIC.						
NEIC	Felt at Hughes.						
ISC	**XI 06 07 38 53**±1.1	**65.60N**±.081	**147.9W**±.18	**3**		**10**	**1-3**
NEIC	XI 06 07 38 53.4	65.57N	147.82W	3			¶97xi0941
NEIC	ML2.5(AEIC), After AEIC.						
ISC	**XI 13 09 38 56**±1.2	**65.76N**±.081	**147.9W**±.19	**0**		**13**	**1-3**
NEIC	XI 13 09 38 56.7	65.75N	147.93W	0			¶97xi2112
NEIC	ML2.5(AEIC), After AEIC.						
ISC	**XII 13 12 35 36**±1.6	**66.0N**±.12	**148.2W**±.19	**31**		**21**	**1-5**
NEIC	XII 13 12 35 35.4	66.10N	148.41W	31			¶97xii2944
NEIC	ML3.5(PMR), ML2.7(AEIC), After AEIC.						
ISC	**XII 15 14 22 35.5**±.40	**64.50N**±.065	**162.2W**±.10	**25**	**4.3b**,4.4s	**57**	**1-77**
BJI	XII 15 14 22 33.1	64.60N	162.70W	25	4.5b,4.9s		¶97xii3296
NEIC	XII 15 14 22 33.1	64.56N	162.67W	25	4.5b		
EIDC	XII 15 14 22 33.7±.80	64.7N	162.4W	0	4.1b,4.2L		
NEIC	ML4.8(AEIC)						
NEIC	Felt strongly at Elim and Golovin. Also felt at Koyuk, Nome and White Mountain.						
EIDC	Error ellipse is semi−major=28.4km semi−minor=12.4km azimuth=12						

(677) Northern Yukon Territory.

ISC	**VII 02 12 40 48.0**±.38	**65.31N**±.040	**133.85W**±.072	**0**	**3.9b**	**75**	**3-87**
EIDC	VII 02 12 40 49.4	65.1N	133.8W	0	3.9b,4.6L		¶97vii0240
NEIC	VII 02 12 40 50.2	65.14N	133.81W	0			
PGC	VII 02 12 40 50.2	65.1N	133.8W	0	4.4L		
NEIC	ML4.4(PGC), ML4.5(AEIC), After PGC.						
PGC	Wernecke Mountains, Yukon Territory						
PGC	**VIII 29 17 06 05.3**	**66.2N**	**135.4W**	**20**	**3.1L**		**¶97viii4351**
PGC	Richardson Mountains, Yukon Territory						
ISC	**X 19 07 43 27**±1.1	**65.3N**±.10	**133.0W**±.28	**5**		**6**	**3-9**
PGC	X 19 07 43 28.9	65.3N	133.4W	5	3.1L		¶97x3309
PGC	Wernecke Mountains, Yukon Territory						
ISC	**X 19 19 29 25**±1.3	**65.01N**±.093	**134.0W**±.39	**0**		**5**	**3-7**
PGC	X 19 19 29 27.9	65.0N	134.3W	0	3.2L		¶97x3385
PGC	Wernecke Mountains, Yukon Territory						
PGC	**XI 10 03 18 44.4**	**65.5N**	**139.7W**	**10**	**3.3L**		**¶97xi1549**
PGC	Ogilvie Mountains, Yukon Territory						
ISC	**XII 26 09 05 24**±1.1	**65.8N**±.10	**134.9W**±.29	**10**		**6**	**3-9**
PGC	XII 26 09 05 26.1	65.8N	135.2W	10	3.0L		¶97xii5090
PGC	Wernecke Mountains, Yukon Territory						

(678) Queen Elizabeth Islands.

OTT	**VII 11 22 35 22.2**	**75.8N**	**107.7W**	**18**	**3.0N**		**¶97vii1736**
OTT	Melville Island, Northwest Territories 316km east from Mould Bay, Northwest Territories Gustaf−Lougheed Arch seismic zone.						
OTT	**VII 13 08 30 52.6**	**74.5N**	**97.3W**	**18**	**3.4N**		**¶97vii1946**
OTT	75km west from Resolute, Northwest Territories Boothia Ungava seismic zone.						
OTT	**X 14 09 04 56.2**	**78.2N**	**110.0W**	**18**	**3.5L**		**¶97x2365**
OTT	Queen Elizabeth Islands 336km northeast from Mould Bay, Northwest Territories						
ISC	**XI 15 22 36 00**±2.9	**75.9N**±.38	**105.5W**±.39	**18**		**5**	**3-16**
OTT	XI 15 22 36 02.5	76.1N	105.3W	18	3.4N		¶97xi2553
OTT	Byam Martin Channel, Northwest Territories Sverdrup seismic zone 330km northwest from Resolute, Northwest Territories						
EIDC	**XI 27 13 08 15.9**	**81.1N**	**76.9W**	**0**	**3.1b**		**¶97xi4864**
EIDC	LO CONF						

(679) Northwest Territories.

OTT	**VII 02 15 39 45.3**	**64.1N**	**81.8W**	**18**	**3.2N**		**¶97vii0260**
OTT	Southhampton Island, Northwest Territories 66km east from Coral Harbour, Northwest Territories						
ISC	**VII 14 10 53 30**±3.0	**61.8N**±.12	**126.6W**±.57	**0**		**5**	**4-7**
PGC	VII 14 10 53 34.2	61.8N	127.2W	0	3.0L		¶97vii2110
PGC	Mackenzie Mountains, Northwest Territories						
ISC	**IX 20 18 51 27.0**±.75	**68.5N**±.10	**124.0W**±.19	**0**	**4.0b**	**11**	**4-49**
EIDC	IX 20 18 51 28.7	68.6N	124.0W	0	4.1L,4.0b		¶97ix2988
PGC	IX 20 18 51 29.8	68.6N	124.0W	0	3.4b		
PGC	South of Darnley Bay, Northwest Territories						
PGC	**IX 26 13 31 14.5**	**66.1N**	**122.8W**	**20**	**3.1L**		**¶97ix4021**
PGC	Near Great Bear Lake, Northwest Territories						
ISC	**X 04 14 39 31.7**±.97	**62.17N**±.098	**124.1W**±.19	**0**		**7**	**4-7**
PGC	X 04 14 39 34.7	62.2N	124.2W	0	3.2b		¶97x0662
PGC	Mackenzie Mountains, Northwest Territories						
OTT	**X 09 09 33 31.0**	**64.2N**	**87.4W**	**18**	**3.2N**		**¶97x1565**
OTT	Roes Welcome Sound, Northwest Territories 210km northeast from Chesterfield Inlet, Northwest Territories						
ISC	**X 11 14 48 08.8**±.94	**62.18N**±.095	**124.1W**±.18	**0**		**7**	**4-7**
PGC	X 11 14 48 11.8	62.2N	124.1W	0	3.1b		¶97x1903
PGC	Mackenzie Mountains, Northwest Territories						
ISC	**XI 10 15 47 01.9**±.40	**62.34N**±.050	**124.7W**±.10	**0**	**4.0b**	**41**	**5-92**
EIDC	XI 10 15 47 03.8	62.3N	124.6W	0	3.8b,4.4L		¶97xi1632
PGC	XI 10 15 47 04.4	62.3N	124.6W	0	4.0b		
NEIC	XI 10 15 47 04.4	62.27N	124.58W	0	4.0b		
PGC	Mackenzie Mountains, Northwest Territories						
NEIC	mbLg4.0(PGC), After PGC.						
ISC	**XI 12 14 21 57.0**±.51	**62.44N**±.066	**124.7W**±.11	**10**	**3.8b**	**28**	**5-54**
NEIC	XI 12 14 21 57.1	62.45N	124.71W	10			¶97xi1994
EIDC	XI 12 14 21 57.7	62.4N	124.6W	0	4.0L,3.6b		
PGC	XI 12 14 21 59.5	62.3N	124.5W	10	3.8b		
PGC	Mackenzie Mountains, Northwest Territories						
OTT	**XI 15 12 13 32.4**	**65.0N**	**88.3W**	**18**	**3.2N**		**¶97xi2470**
OTT	Wager Bay region, Northwest Territories Boothia Ungava seismic zone. 198km southwest from Repulse Bay, Northwest Territories						
ISC	**XI 15 22 09 46.9**±.51	**62.42N**±.064	**124.7W**±.11	**10**	**3.6b**	**20**	**5-92**
NEIC	XI 15 22 09 47.8	62.40N	124.58W	10	3.7b		¶97xi2547
PGC	XI 15 22 09 48.1	62.3N	124.7W	0	3.7b		
EIDC	XI 15 22 09 48.3	62.3N	124.6W	0	4.0L,3.5b		
NEIC	Less reliable solution.						
PGC	Mackenzie Mountains, Northwest Territories						
ISC	**XI 15 22 12 50.7**±.94	**62.4N**±.10	**124.7W**±.18	**0**		**8**	**5-11**
PGC	XI 15 22 12 54.2	62.3N	124.7W	0	3.8b		¶97xi2549
PGC	Mackenzie Mountains, Northwest Territories						
ISC	**XII 06 08 06 50.6**±.10	**64.90N**±.023	**88.09W**±.046	**18**	**5.3b,4.7s**	**438**	**5-156**
OTT	XII 06 08 06 47.3	64.8N	88.2W	18	5.7N		¶97xii1301
EIDC	XII 06 08 06 49.0±.42	64.9N	88.0W	0	5.2b,4.4s		
NEIC	XII 06 08 06 49.1	64.91N	88.09W	10	5.4b,4.5s		
BJI	XII 06 08 06 50.5	65.63N	88.36W	5	5.2b,5.7s		
MOS	XII 06 08 06 52.1	64.9N	88.1W	31	5.7b		
OTT	Wager Bay region, Northwest Territories Boothia Ungava seismic zone. 209km southwest from Repulse Bay, Northwest Territories						
EIDC	Error ellipse is semi−major=12.6km semi−minor=11.2km azimuth=108						
ISC	**XII 06 08 41 16.0**±.89	**64.89N**±.089	**88.3W**±.22	**18**		**9**	**5-18**
OTT	XII 06 08 41 19.3	64.9N	88.1W	18	3.4N		¶97xii1313
OTT	Wager Bay region, Northwest Territories Aftershock. Boothia Ungava seismic zone. 202km southwest from Repulse Bay, Northwest Territories						
OTT	**XII 06 09 38 06.7**	**64.8N**	**87.4W**	**18**	**3.1N**		**¶97xii1335**
OTT	Wager Bay region, Northwest Territories Aftershock. Boothia Ungava seismic zone.						
OTT	**XII 06 14 58 04.6**	**64.8N**	**88.0W**	**18**	**3.1N**		**¶97xii1450**
OTT	Wager Bay region, Northwest Territories Aftershock. Boothia Ungava seismic zone. 207km southwest from Repulse Bay, Northwest Territories						
OTT	**XII 06 18 19 16.6**	**64.8N**	**88.0W**	**18**	**3.6N**		**¶97xii1491**
OTT	Wager Bay region, Northwest Territories Aftershock. 210km southwest from Repulse Bay, Northwest Territories Boothia Ungava seismic zone.						
OTT	**XII 09 08 18 00.8**	**64.8N**	**88.2W**	**18**	**3.4N**		**¶97xii2132**
OTT	Wager Bay region, Northwest Territories Aftershock. Boothia Ungava seismic zone. 211km southwest from Repulse Bay, Northwest Territories						

(680) Western Greenland.

ISC	**VII 03 06 22 55.9**±.56	**60.3N**±.12	**43.1W**±.14	**18**	**3.7b,2.8s**	**14**	**12-83**
OTT	VII 03 06 22 53.7	60.3N	42.0W	18	4.0L		¶97vii0367
NEIC	VII 03 06 22 54.6	60.40N	43.03W	10	3.8b		
EIDC	VII 03 06 22 55.2	60.4N	43.1W	0	3.7b,2.8s		
OTT	Southern Greenland, 1187km southeast from Cape Dyer, Northwest Territories						
NEIC	Single network solution.						

(681) Baffin Bay.

ISC	**VII 29 08 18 21**±1.4	**72.26N**±.088	**65.2W**±.62	**18**		**6**	**9-18**
OTT	VII 29 08 18 22.8	72.2N	65.1W	18	4.1L		¶97vii4404
OTT	230km northeast from Clyde river, Northwest Territories Eastern Arctic background seismic zone.						
ISC	**XII 28 11 56 11**±1.2	**71.2N**±.13	**65.2W**±.42	**18**	**3.5b**	**12**	**6-83**
EIDC	XII 28 11 56 08.9±1.46	71.1N	64.7W	0	3.5b		¶97xii5448
OTT	XII 28 11 56 11.7	70.6N	65.0W	18	4.4L		
EIDC	Error ellipse is semi−major=40.6km semi−minor=25.2km azimuth=3						
OTT	Baffin Bay seismic zone. 131km east from Clyde river, Northwest Territories						

(682) Baffin Island region.

OTT	**X 12 17 57 29.9**	**71.5N**	**76.2W**	**18**	**3.5N**		**¶97x2080**
OTT	Baffin Island Seismic Zone, Northwest Territories						

SEISMIC REGION 43.
SOUTHEASTERN AND ANTARCTIC PACIFIC.

(683) South-East Central Pacific Ocean.

ISC	**VIII 12 18 19 51.6**±.78	**21.9S**±.12	**77.3W**±.11	**10**	**4.2b**	**12**	**10-145**
NEIC	VIII 12 18 19 51.6	21.84S	77.28W	10	4.2b		¶97viii1789
EIDC	VIII 12 18 19 51.9	21.8S	77.3W	0	4.1b,4.2L		
NEIC	Less reliable solution.						

(684) Easter Island Cordillera.

ISC	**VII 26 20 04 27**±1.2	**56.7S**±.33	**123.5W**±.36	**10**	**3.9b**	**5**	**45-80**
EIDC	VII 26 20 04 26.8	55.3S	124.5W	0	3.8b		¶97vii4005
ISC	**VIII 09 18 01 36.6**±.80	**49.3S**±.19	**116.3W**±.25	**10**	**4.2b,4.3s**	**16**	**33-150**
EIDC	VIII 09 18 01 35.2	49.7S	115.9W	0	4.3s,4.1b		¶97viii1297
NEIC	VIII 09 18 01 36.6	49.35S	116.26W	10	4.3b		
BJI	VIII 09 18 01 38.6	49.40S	116.30W	10			
NEIC	Poor solution.						
ISC	**VIII 11 00 15 18**±3.7	**24.4S**±.49	**116.0W**±.71	**10**	**4.1b**,3.9s	**9**	**41-148**
NEIC	VIII 11 00 15 18.2	24.37S	115.87W	10			¶97viii1481
EIDC	VIII 11 00 15 19.5	24.3S	115.7W	0	4.0b,3.9s		
NEIC	Poor solution.						
ISC	**VIII 18 17 56 40.2**±.81	**35.2S**±.17	**106.7W**±.26	**10**	**4.4b**	**16**	**29-160**
EIDC	VIII 18 17 56 39.7	35.2S	106.8W	0	4.4b		¶97viii2701
NEIC	VIII 18 17 56 39.8	35.20S	106.71W	10			
NEIC	Poor solution.						

ISC	**VIII 23 23 58 18.1**±.67	**55.8S**±.20	**124.3W**±.25	**10**	**4.2b,4.5s**	**24 33-154**	
NEIC	VIII 23 23 58 18.2	55.93S	124.14W	10		**¶97viii3467**	
EIDC	VIII 23 23 58 20.9	55.7S	124.3W	18	3.9b,4.5s		
NEIC	Poor solution.						
ISC	**VIII 25 08 59 48.8**±.88	**21.6S**±.13	**112.9W**±.22	**10**	**4.1b,3.6s**	**23 40-150**	
NEIC	VIII 25 08 59 48.3	21.53S	112.94W	10	4.1b	**¶97viii3677**	
EIDC	VIII 25 08 59 48.3	21.5S	113.0W	0	4.0b,3.8s		
NEIC	Less reliable solution.						
ISC	**VIII 27 20 58 36**±2.9	**20.8S**±.38	**114.1W**±.57	**10**	**4.0b,4.2s**	**15 42-151**	
EIDC	VIII 27 20 58 37.3	20.7S	114.0W	0	3.8b,4.1s	**¶97viii4036**	
NEIC	VIII 27 20 58 37.6	20.59S	113.85W	10	4.3b,4.0s		
BJI	VIII 27 20 58 39.6	20.60S	113.90W	10			
NEIC	Poor solution.						
ISC	**VIII 27 23 11 41**±2.8	**35.3S**±.48	**108.4W**±.49	**10**	**4.2b,**4.0s	**21 30-151**	
NEIC	VIII 27 23 11 40.1	35.36S	108.41W	10	4.5b,4.0s	**¶97viii4055**	
EIDC	VIII 27 23 11 40.9	35.2S	108.4W	0	4.2b		
NEIC	Poor solution.						
ISC	**VIII 28 10 53 02**±1.0	**53.3S**±.42	**117.7W**±.39	**10**	**3.9b,**4.0s	**8 34-152**	
EIDC	VIII 28 10 53 01.5	53.2S	117.9W	0	3.8b,4.0s	**¶97viii4117**	
ISC	**VIII 31 07 25 09.1**±.45	**34.91S**±.084	**111.4W**±.17	**10**	**4.4b,4.6s**	**41 33-155**	
NEIC	VIII 31 07 25 08.9	34.91S	111.37W	10	4.4b,4.0s	**¶97viii4607**	
EIDC	VIII 31 07 25 09.0	35.0S	111.5W	0	4.3b,4.4s		
BJI	VIII 31 07 25 12.9	34.90S	111.40W	10	5.7s		
NEIC	Less reliable solution.						
ISC	**X 04 18 31 41.2**±.33	**35.28S**±.060	**106.8W**±.10	**10**	**4.9b,5.1s**	**121 8-175**	
NEIC	X 04 18 31 41.0	35.29S	106.71W	10	4.9b,5.1s	**¶97x0700**	
EIDC	X 04 18 31 41.1	35.3S	106.8W	0	4.8b		
BJI	X 04 18 31 45.0	35.30S	106.70W	10	5.9s		
HRVD	X 04 18 31 48.0±.1	35.24S±.02	106.38W±.02	15			
NEIC	Mw5.7(HRV).						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c98; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.81±.05; $M_{\theta\theta}$0.30±.06; $M_{\phi\phi}$0.51±.05; $M_{r\theta}$−0.86±.16; $M_{r\phi}$0.52±.17; $M_{\theta\phi}$−3.42±.05. Principal Axes: T 4.03,Plg11°,Azm226°; N −0.98,Plg77°,Azm77°; P −3.05,Plg7°,Azm317°. Best double couple: $M_0$3.5×10^{17}Nm, NP1: ϕ_S2°,δ77°,λ3°. NP2:ϕ_S271°,δ87°,λ167°.

ISC	**X 12 08 48 39**±1.2	**50.6S**±.36	**116.2W**±.33	**10**	**4.4b,4.9s**	**14 33-152**	
EIDC	X 12 08 48 38.4	50.4S	116.5W	0	5.0s,4.2b	**¶97x2015**	
NEIC	X 12 08 48 38.8	50.48S	116.22W	10	4.6b,4.9s		
BJI	X 12 08 48 43.8	50.50S	116.20W	10	5.1s		
HRVD	X 12 08 48 44.8±.4	49.35S±.07	116.67W±.09	15			
NEIC	Mw5.3(HRV), Poor solution.						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s23,c33; Half duration: 1s1. Moment tensor: Scale 10^{17}Nm; M_{rr}0.09±.06; $M_{\theta\theta}$0.06±.08; $M_{\phi\phi}$−0.15±.05; $M_{r\theta}$0.09±.19; $M_{r\phi}$−0.25±.16; $M_{\theta\phi}$1.04±.06. Principal Axes: T 1.01,Plg6°,Azm137°; N 0.13, Plg77°,Azm19°; P −1.14,Plg11°,Azm228°. Best double couple: $M_0$1.1×10^{17}Nm, NP1: ϕ_S272°,δ77°,λ−4°. NP2:ϕ_S3°,δ86°,λ−167°.

NEIC	**XI 10 01 33 14.0**	**20.74S**	**112.46W**	**10**	**4.6b,4.5s**	**41-150**	
EIDC	XI 10 01 33 10.3	21.0S	113.3W	0	4.5s,4.0b	**¶97xi1540**	
NEIC	Poor solution.						
EIDC	**XI 19 17 50 13.8**	**35.7S**	**105.1W**	**0**	**3.8b,**3.7s	**¶97xi3278**	
EIDC	LO CONF						
ISC	**XI 20 23 45 29.1**±.77	**56.2S**±.25	**123.3W**±.32	**10**	**4.2b**	**20 37-153**	
NEIC	XI 20 23 45 29.0	56.07S	123.46W	10	4.4b	**¶97xi3552**	
EIDC	XI 20 23 45 29.2	56.0S	123.6W	0	4.1b		
NEIC	Poor solution.						
EIDC	**XI 27 12 17 25.3**	**56.6S**	**125.1W**	**0**	**4.1b**	**¶97xi4855**	
ISC	**XII 16 20 40 10**±7.1	**35.52S**±.051	**106.02W**±.095	**10**±41	**5.2b,5.1s**	**150 9-176**	
BJI	XII 16 20 40 09.2	35.50S	105.90W	10	5.4s	**¶97xii3499**	
NEIC	XII 16 20 40 09.2	35.50S	105.92W	10	5.2b,5.1s		
EIDC	XII 16 20 40 09.3±.55	35.5S	106.2W	0	5.0b,5.2s		
HRVD	XII 16 20 40 14.7±.2	35.53S±.03	105.72W±.03	15			
NEIC	Mw5.7(HRV).						
EIDC	Error ellipse is semi−major=21.0km semi−minor=18.8km azimuth=23						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c78; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.64±.07; $M_{\theta\theta}$−0.38±.08; $M_{\phi\phi}$1.03±.10; $M_{r\theta}$−0.22±.22; $M_{r\phi}$−0.40±.29; $M_{\theta\phi}$−4.08±.07. Principal Axes: T 4.47,Plg2°,Azm50°; N −0.60, Plg82°,Azm154°; P −3.87,Plg7°,Azm320°. Best double couple: $M_0$4.2×10^{17}Nm, NP1:ϕ_S95°, δ83°,λ−176°. NP2:ϕ_S5°,δ86°,λ−7°.

ISC	**XII 24 05 16 14.5**±.58	**20.33S**±.089	**113.5W**±.18	**10**	**4.9b,5.0s**	**91 36-156**	
EIDC	XII 24 05 16 13.8±.73	20.3S	113.9W	0	4.4b,5.1s	**¶97xii4709**	
BJI	XII 24 05 16 14.2	20.30S	113.40W	10			
NEIC	XII 24 05 16 14.2	20.34S	113.38W	10	5.1b,5.0s		
HRVD	XII 24 05 16 21.1±.2	20.32S±.03	113.76W±.03	15			
EIDC	Error ellipse is semi−major=32.2km semi−minor=20.6km azimuth=83						
NEIC	Mw5.5(HRV), Less reliable solution.						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s36,c59; Half duration: 1s3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.15±.05; $M_{\theta\theta}$−0.24±.05; $M_{\phi\phi}$0.39±.08; $M_{r\theta}$0.12±.13; $M_{r\phi}$0.22±.19; $M_{\theta\phi}$1.94±.04. Principal Axes: T 2.07,Plg6°,Azm310°; N −0.18, Plg84°,Azm145°; P −1.89,Plg2°,Azm41°. Best double couple: $M_0$2.0×10^{17}Nm, NP1:ϕ_S86°, δ84°,λ3°. NP2:ϕ_S355°,δ87°,λ174°.

ISC	**XII 24 20 56 57.7**±.93	**20.7S**±.14	**114.1W**±.36	**10**	**4.2b,4.7s**	**49 42-164**	
BJI	XII 24 20 56 57.3	20.70S	114.20W	10	5.5s	**¶97xii4822**	
NEIC	XII 24 20 56 57.3	20.69S	114.16W	10	4.6b,4.7s		
EIDC	XII 24 20 56 57.9±3.50	20.6S	114.1W	0	4.0b,4.7s		
HRVD	XII 24 20 57 05.2±.4	20.53S±.05	114.00W±.07	15			
NEIC	Mw5.3(HRV), Poor solution.						
EIDC	Error ellipse is semi−major=176.1km semi−minor=42.1km azimuth=118						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s26,c38; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}−1.29±.36; $M_{\theta\theta}$0.06±.48; $M_{\phi\phi}$1.22±.53; $M_{r\theta}$−0.20±1.45; $M_{r\phi}$1.83±1.40; $M_{\theta\phi}$8.86±.39. Principal Axes: T 9.65,Plg6°,Azm313°; N −1.15,Plg77°,Azm193°; P −8.51,Plg11°,Azm44°. Best double couple: $M_0$9.1×10^{16}Nm, NP1: ϕ_S88°,δ78°,λ−3°. NP2:ϕ_S179°,δ87°,λ−168°.

(685) Easter Island region.

EIDC	**XI 12 13 24 33.3**	**22.3S**	**113.1W**	**24**	**4.4s,3.7b**	**¶97xi1988**	
NEIC	XI 12 13 24 31.2	21.96S	113.02W	10			
NEIC	Poor solution.						
EIDC	**XI 21 21 10 35.9**	**24.6S**	**113.6W**	**0**	**4.2s,4.2b**	**¶97xi3743**	
ISC	**XII 25 13 40 22**±1.3	**23.1S**±.27	**111.8W**±.32	**10**	**4.2b**	**7 60-151**	
EIDC	XII 25 13 40 21.3±1.16	23.2S	112.1W	0	4.1b	**¶97xii4937**	
NEIC	XII 25 13 40 22.2	23.10S	111.81W	10	3.9b		
EIDC	Error ellipse is semi−major=44.7km semi−minor=39.0km azimuth=112						
NEIC	Poor solution.						
ISC	**XII 28 00 58 09**±1.2	**24.2S**±.21	**112.4W**±.35	**10**	**4.1b**	**8 50-150**	
EIDC	XII 28 00 58 09.0±.91	24.1S	112.5W	0	3.8b	**¶97xii5371**	
EIDC	Error ellipse is semi−major=40.2km semi−minor=29.8km azimuth=82						

(686) West Chile Rise.

ISC	**VIII 11 00 50 53.2**±.91	**40.7S**±.15	**89.7W**±.17	**10**	**4.3b**	**22 15-151**	
EIDC	VIII 11 00 50 54.4	40.0S	89.5W	0	4.6s,4.0b	**¶97viii1484**	
NEIC	VIII 11 00 50 58.8	39.38S	89.00W	10	4.5b		
NEIC	Poor solution.						
ISC	**VIII 26 22 34 45**±1.2	**43.9S**±.20	**82.0W**±.25	**10**	**3.9b,**4.5s	**8 9-150**	
EIDC	VIII 26 22 34 44.5	43.8S	82.3W	0	4.4s,4.0b	**¶97viii3913**	
ISC	**IX 02 20 24 03.8**±.84	**40.8S**±.16	**85.1W**±.22	**10**	**4.1b,**4.2s	**12 11-152**	
NEIC	IX 02 20 24 03.4	40.75S	85.16W	10	4.3b,4.2s	**¶97ix0322**	
EIDC	IX 02 20 24 14.0	40.6S	85.2W	84	3.8b,3.7L		
NEIC	Poor solution.						
ISC	**IX 21 02 02 23.7**±.90	**40.5S**±.18	**86.2W**±.17	**10**	**4.2b**	**12 12-157**	
NEIC	IX 21 02 02 23.0	40.54S	86.20W	10		**¶97ix3030**	
EIDC	IX 21 02 02 23.8	40.4S	86.3W	0	4.1b,3.8L		
NEIC	Less reliable solution.						
ISC	**X 19 08 32 49.9**±.82	**36.7S**±.16	**96.1W**±.15	**10**	**4.7b,4.7s**	**61 20-158**	
NEIC	X 19 08 32 49.7	36.66S	96.05W	10	4.7b,4.6s	**¶97x3315**	
EIDC	X 19 08 32 49.9	36.7S	96.2W	0	4.4b		
NEIC	Less reliable solution.						
ISC	**X 28 09 59 47.1**±.54	**37.2S**±.11	**94.7W**±.16	**10**	**4.6b**	**32 19-173**	
BJI	X 28 09 59 44.9	37.10S	94.60W	10		**¶97x4740**	
EIDC	X 28 09 59 46.8	37.0S	94.9W	0	4.3b,4.0L		
NEIC	X 28 09 59 46.9	37.14S	94.69W	10	4.8b		
NEIC	Less reliable solution.						
ISC	**XI 04 11 59 23**±3.5	**38.1S**±.55	**94.1W**±.49	**10**	**4.1b,**3.0s	**6 18-153**	
EIDC	XI 04 11 59 21.8	38.3S	94.2W	0	4.1b,3.5s	**¶97xi0629**	
ISC	Poorly determined						
ISC	**XI 04 17 37 15.8**±.94	**38.1S**±.16	**92.9W**±.23	**10**	**4.2b**	**12 17-153**	
EIDC	XI 04 17 37 14.8	38.1S	93.0W	0	4.2b,3.4L	**¶97xi0668**	
NEIC	XI 04 17 37 15.6	38.08S	92.88W	10			
NEIC	Poor solution.						
ISC	**XI 04 18 47 52**±1.1	**38.4S**±.19	**93.9W**±.21	**10**	**4.2b**	**12 18-154**	
EIDC	XI 04 18 47 51.6	38.4S	93.9W	0	4.1b,3.5L	**¶97xi0673**	
NEIC	XI 04 18 47 51.8	38.34S	93.85W	10			
NEIC	Poor solution.						
ISC	**XI 04 18 54 49**±1.1	**38.3S**±.19	**94.0W**±.21	**10**	**4.3b**	**14 18-154**	
EIDC	XI 04 18 54 48.9	38.3S	94.0W	0	4.2b,3.6L	**¶97xi0674**	
NEIC	XI 04 18 54 49.0	38.31S	93.98W	10	4.2b		
NEIC	Less reliable solution.						
ISC	**XI 04 20 04 20**±2.6	**39.9S**±.36	**91.2W**±.33	**10**	**4.4b,**4.4s	**7 16-150**	
EIDC	XI 04 20 04 18.2	40.1S	91.3W	0	4.3b,4.4s	**¶97xi0685**	
ISC	**XII 13 19 22 59.0**±.24	**41.39S**±.047	**87.39W**±.082	**10**	**5.6b,5.3s**	**201 13-176**	
MOS	XII 13 19 22 58.6	41.4S	87.4W	10	5.9b,5.4s	**¶97xii3003**	
BJI	XII 13 19 22 58.7	41.40S	87.40W	10	5.9s		
NEIC	XII 13 19 22 58.7	41.40S	87.44W	10	5.7b,5.2s		
HRVD	XII 13 19 23 01.5±.2	41.39S±.03	87.68W±.03	15			
EIDC	XII 13 19 23 01.8±.41	41.4S	87.5W	24±2.3	4.8b,5.5s		
NEIC	Mw5.7(HRV), Mw5.6(GS).						

NEIC Moment tensor solution: s17, scale 10^{17}Nm; M_{rr}−2.29; $M_{\theta\theta}$1.31; $M_{\phi\phi}$0.99; $M_{r\theta}$0.62; $M_{r\phi}$−0.76; $M_{\theta\phi}$1.69. Depth 23km; Principal axes: T 2.85,Plg1°,Azm138°; N −0.11,Plg24°, Azm47°; P −2.73,Plg66°,Azm229°. Best double couple: $M_0$2.8×10^{17}Nm; NP1:ϕ_S250°,δ49°, λ−57°. NP2:ϕ_S25°,δ50°,λ−122°.

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c85; Half duration: 1s7. Moment tensor: Scale 10^{17}Nm; M_{rr}−3.96±.09; $M_{\theta\theta}$−0.14±.13; $M_{\phi\phi}$4.10±.10; $M_{r\theta}$1.16±.30; $M_{r\phi}$−0.84±.34; $M_{\theta\phi}$−0.26±.09. Principal Axes: T 4.22,Plg7°,Azm85°; N 0.13, Plg14°,Azm353°; P −4.35,Plg74°,Azm199°. Best double couple: $M_0$4.3×10^{17}Nm, NP1: ϕ_S191°,δ40°,λ−67°. NP2:ϕ_S342°,δ53°,λ−108°.

EIDC Error ellipse is semi−major=22.5km semi−minor=16.7km azimuth=96

(688) East of North Island, New Zealand.

WEL	**VII 11 01 50 04.9**	**35.77S**	**179.59W**	**12**	**3.7L**	**¶97vii1611**	
WEL	**VII 19 20 52 28.0**	**38.33S**	**179.01W**	**12**	**4.1L**	**¶97vii2953**	
WEL	**VIII 01 01 06 07.0**	**36.75S**	**179.09W**	**283**	**4.0L**	**¶97viii0004**	
EIDC	**VIII 13 01 01 40.8**	**36.1S**	**179.6W**	**0**	**4.0b**	**2-150**	
WEL	VIII 13 01 01 43.4	35.73S	179.09E	162	4.8L	**¶97viii1831**	
ISC	**VIII 18 03 55 56**±5.9	**38.2S**±.51	**179.1W**±.58	**33**	3.6b	**4 2-44**	
WEL	VIII 18 03 55 56.8	38.32S	179.06W	33	4.1L	**¶97viii2615**	
ISC	Poorly determined						
EIDC	**VIII 23 12 06 04.3**	**37.6S**	**175.7W**	**0**	**3.8b**	**35-47**	
						¶97viii3400	
WEL	**VIII 27 06 51 30.4**	**35.22S**	**179.99W**	**12**	**4.0L**	**¶97viii3948**	
EIDC	**VIII 30 06 20 58.6**	**36.1S**	**178.6W**	**0**	**4.0b**	**3-44**	
						¶97viii4439	
EIDC	**IX 21 10 50 13.2**	**35.1S**	**177.8W**	**0**	**4.2b**	**¶97ix3087**	
EIDC	**IX 27 21 47 31.3**	**35.4S**	**178.0W**	**0**	**4.2b**	**¶97ix4462**	
EIDC	**IX 30 00 05 16.3**	**36.5S**	**177.7W**	**0**	3.7b	**¶97ix5071**	
WEL	**X 04 20 02 12.5**	**38.21S**	**179.48W**	**12**	**4.4L**	**¶97x0715**	
ISC	**X 20 09 48 10**±3.0	**35.1S**±.10	**179.7W**±.46	**58**	**4.3b,**3.4s	**13 3-149**	
EIDC	X 20 09 48 12.2	35.1S	179.9W	58	4.1b,3.4s	**¶97x3473**	
ISC	**X 24 19 16 31**±3.9	**35.2S**±.23	**179.9W**±.58	**313**±20	2.8b	**19 3-43**	
						¶97x4213	
ISC	**XI 01 11 50 35**±4.0	**36.2S**±.14	**179.8W**±.54	**12**	**3.9b**	**13 2-150**	
EIDC	XI 01 11 50 38.0	36.0S	179.7E	0	3.9b	**¶97xi0077**	
WEL	XI 01 11 50 40.2	36.42S	180.00E	12	4.1L		
WEL	**XI 08 06 36 10.3**	**38.08S**	**179.98W**	**12**	**3.7L**	**¶97xi1224**	
ISC	**XI 10 17 08 10**±3.0	**36.2S**±.11	**179.5W**±.41	**12**	**4.2b,**3.8s	**24 2-151**	
EIDC	XI 10 17 08 13.8	36.9S	179.7E	0	4.3b,3.9s	**¶97xi1644**	
WEL	XI 10 17 08 16.6	36.29S	179.85W	12	4.4L		
NEIC	XI 10 17 08 18.7	37.34S	179.40E	33	4.2b		
NEIC	Poor solution.						
ISC	**XII 24 12 42 40**±2.3	**38.16S**±.087	**180.0W**±.23	**12**	3.7b	**30 1-152**	
WEL	XII 24 12 42 49.8	37.97S	179.26E	12	4.3L	**¶97xii4759**	
EIDC	XII 24 12 44 05.2±5.45	39.0S	175.5E	700	2.6b		
EIDC	Error ellipse is semi−major=254.8km semi−minor=38.6km azimuth=171LO CONF Depth						
EIDC	**XII 28 02 06 50.7**±2.43	**35.9S**	**179.5W**	**0**	3.8b,3.8s	**2-151**	
						¶97xii5378	

EIDC Error ellipse is semi−major=122.0km semi−minor=49.0km azimuth=18

(691) South Pacific Cordillera.

ISC	**VII 05 08 06 51**±1.5	**62.4S**±.23	**161.8W**±.52	**10**	**3.9b**	**5 19-127**	
EIDC	VII 05 08 06 51.1	62.4S	161.7W	0	3.9b,3.3L	**¶97vii0699**	
ISC	Poorly determined						
ISC	**VII 08 13 18 13.6**±.30	**54.18S**±.076	**133.5W**±.12	**10**	**4.8b,4.9s**	**82 31-174**	
BJI	VII 08 13 18 15.7	54.09S	133.98W	25		**¶97vii1192**	
NEIC	VII 08 13 18 16.0	54.15S	133.45W	29	4.8b,5.0s		
EIDC	VII 08 13 18 17.3	54.2S	133.5W	27	4.5b		
HRVD	VII 08 13 18 22.6±1.1	53.96S±.12	133.46W±.17	15			
NEIC	Mw5.4(HRV), Less reliable solution.						

HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s16,c19; Half duration: 1s0. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.30±.08; $M_{\theta\theta}$1.11±.10; $M_{\phi\phi}$−0.81±.08; $M_{r\theta}$−0.12±.39; $M_{r\phi}$0.89±.30; $M_{\theta\phi}$0.21±.11. Principal Axes: T 1.14,Plg1°,Azm174°; N 0.37,

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
		Plg53°,Azm266°; P −1.51,Plg37°,Azm84°. Best double couple: $M_0$1.3×10^{17}Nm, NP1: ϕ_S225°,δ64°,λ−153°. NP2:ϕ_S123°,δ66°,λ−29°.						
ISC	**VII**	**21 02 04 57.0**±.37	**55.04S**±.094	**129.5W**±.12	**10**	**4.8b,4.8s**	**148**	**31-166**
NEIC	VII	21 02 04 56.6	54.86S	129.62W	10	4.9b,4.8s		**¶97vii3175**
EIDC	VII	21 02 05 01.6	55.3S	129.4W	31	4.6b,4.9s		
HRVD	VII	21 02 05 05.8±.3	55.11S±.05	129.56W±.08	15			
NEIC	Mw5.4(HRV), Less reliable solution.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s31,c53; Half duration: 1$\hat{s}$2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.05±.05; $M_{\theta\theta}$0.92±.07; $M_{\phi\phi}$−0.97±.05; $M_{r\theta}$0.64±.20; $M_{r\phi}$−0.01±.21; $M_{\theta\phi}$1.20±.06. Principal Axes: T 1.70,Plg19°,Azm336°; N −0.09, Plg68°,Azm125°; P −1.61,Plg11°,Azm242°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S18°,δ69°,λ174°. NP2:ϕ_S110°,δ84°,λ21°.							
ISC	**VIII**	**05 07 09 04**±1.0	**56.0S**±.60	**130.4W**±.52	**10**	**4.2b**	**8**	**61-88**
NEIC	VIII	05 07 09 03.7	56.14S	130.23W	10	4.4b		**¶97viii0626**
EIDC	VIII	05 07 09 07.8	55.8S	130.5W	21	3.9b		
NEIC	Poor solution.							
ISC	**VIII**	**09 08 43 27.1**±.91	**56.3S**±.21	**144.5W**±.30	**10**	**4.3b,4.0s**	**8**	**34-121**
NEIC	VIII	09 08 43 26.1	56.05S	144.41W	10	4.7b		**¶97viii1226**
EIDC	VIII	09 08 43 26.4	56.8S	144.3W	0	4.0s,4.0b		
NEIC	Poor solution.							
ISC	**VIII**	**11 12 20 08**±1.2	**58.1S**±.57	**148.7W**±.30	**10**	**4.3b,4.3s**	**7**	**53-123**
EIDC	VIII	11 12 20 08.1	58.4S	148.6W	0	4.1b,4.2s		**¶97viii1559**
ISC	**VIII**	**13 04 05 05.6**±.80	**55.4S**±.46	**136.8W**±.27	**10**	**4.1b**,4.3s	**8**	**60-145**
NEIC	VIII	13 04 05 05.2	55.39S	136.76W	10			**¶97viii1849**
EIDC	VIII	13 04 05 10.2	55.6S	136.8W	25	3.8b,4.2s		
NEIC	Poor solution.							
EIDC	**VIII**	**13 13 22 24.6**	**56.4S**	**144.5W**	**0**	**4.1b**,4.2s		**55-149**
								¶97viii1912
EIDC	**VIII**	**27 22 41 33.5**	**54.3S**	**134.3W**	**0**	**3.8b**		**72-145**
								¶97viii4050
ISC	**IX**	**01 20 54 19.9**±.75	**57.0S**±.25	**141.4W**±.18	**10**	**4.4b,4.2s**	**16**	**47-143**
NEIC	IX	01 20 54 19.5	56.72S	141.41W	10	4.4b		**¶97ix0162**
EIDC	IX	01 20 54 20.1	56.9S	141.5W	0	4.3b,4.3s		
NEIC	Less reliable solution.							
ISC	**IX**	**03 06 22 43.8**±.26	**55.27S**±.064	**128.97W**±.098	**10**	**4.9b,5.9s**	**225**	**32-176**
BJI	IX	03 06 22 42.3	55.03S	128.88W	7	6.1s		**¶97ix0389**
NEIC	IX	03 06 22 44.2	55.19S	128.99W	10	5.1b,6.0s		
MOS	IX	03 06 22 44.7	55.3S	128.8W	10	5.4b,5.8s		
EIDC	IX	03 06 22 48.4	55.2S	129.0W	24	4.5b		
HRVD	IX	03 06 22 50.9±.1	55.26S±.01	128.98W±.02	15			
NEIC	Mw6.1(HRV), Ms6.1(BRK), Less reliable solution.							
NEIC	Mw 6.0 (GS). Mo=4.4×10^{18}Nm (PPT).							
NEIC	Moment tensor solution: s13, scale 10^{17}Nm; M_{rr}−0.20; $M_{\theta\theta}$9.30; $M_{\phi\phi}$−9.10; $M_{r\theta}$3.10; $M_{r\phi}$−2.10; $M_{\theta\phi}$6.30. Depth 12km; Principal axes: T 11.7,Plg12°,Azm344°; N 0.0,Plg71°, Azm112°; P −11.8,Plg14°,Azm251°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S28°,δ72°, λ−178°. NP2:ϕ_S298°,δ88°,λ−19°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s53,c103; Mantle waves: s53,c94; Half duration: 2$\hat{s}$7. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.10±.01; $M_{\theta\theta}$1.00±.01; $M_{\phi\phi}$−0.89±.01; $M_{r\theta}$0.43±.05; $M_{r\phi}$−0.09±.04; $M_{\theta\phi}$1.34±.01. Principal Axes: T 1.76,Plg11°,Azm333°; N −0.12,Plg75°,Azm108°; P −1.64,Plg10°,Azm241°. Best double couple: $M_0$1.7×10^{18}Nm, NP1:ϕ_S17°,δ75°,λ180°. NP2:ϕ_S107°,δ90°,λ15°.							
ISC	**IX**	**11 12 46 17.7**±.52	**63.1S**±.11	**164.2W**±.19	**10**	**4.9b,5.2s**	**43**	**18-155**
EIDC	IX	11 12 46 17.6	63.0S	164.1W	0	4.8b,5.2s		**¶97ix1675**
BJI	IX	11 12 46 17.7	63.10S	164.10W	10			
NEIC	IX	11 12 46 17.7	63.11S	164.11W	10	4.9b		
HRVD	IX	11 12 46 22.4±.2	63.43S±.03	164.12W±.07	15			
NEIC	Mw5.4(HRV), Less reliable solution.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s37,c60; Half duration: 1$\hat{s}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.09±.03; $M_{\theta\theta}$1.50±.04; $M_{\phi\phi}$−1.41±.04; $M_{r\theta}$0.01±.11; $M_{r\phi}$0.03±.13; $M_{\theta\phi}$−0.55±.05. Principal Axes: T 1.60,Plg0°,Azm190°; N −0.09, Plg89°,Azm280°; P −1.51,Plg1°,Azm100°. Best double couple: $M_0$1.6×10^{17}Nm, NP1: ϕ_S235°,δ89°,λ−179°. NP2:ϕ_S145°,δ89°,λ−1°.							
ISC	**IX**	**11 22 50 04.3**±.98	**63.0S**±.15	**164.7W**±.34	**10**	**4.3b**	**15**	**18-154**
EIDC	IX	11 22 50 04.6	63.0S	164.5W	0	4.2b,3.9$_L$		**¶97ix1741**
NEIC	IX	11 22 50 04.7	63.01S	164.76W	10	4.5b		
NEIC	Less reliable solution.							
ISC	**IX**	**11 22 54 37.9**±.93	**63.0S**±.18	**164.2W**±.30	**10**	**4.2b**	**12**	**18-152**
NEIC	IX	11 22 54 37.6	63.02S	164.16W	10			**¶97ix1742**
EIDC	IX	11 22 54 37.8	63.0S	164.1W	0	4.2b,4.0$_L$		
NEIC	Less reliable solution.							
ISC	**IX**	**12 14 09 03.2**±.45	**63.13S**±.093	**164.4W**±.17	**10**	**4.9b,5.6s**	**147**	**18-168**
EIDC	IX	12 14 09 02.7	63.0S	164.5W	0	4.8b,4.6$_L$		**¶97ix1824**
NEIC	IX	12 14 09 03.0	63.12S	164.32W	10	5.0b,5.6s		
BJI	IX	12 14 09 06.0	63.10S	164.30W	10	5.6s		
HRVD	IX	12 14 09 09.6±.1	63.31S±.02	164.28W±.04	15			
NEIC	Mw5.9(GS), Mw5.7(HRV), Less reliable solution.							
NEIC	Mo=9.8×10^{17}Nm (PPT).							
NEIC	Moment tensor solution: s8, scale 10^{17}Nm; M_{rr}−0.28; $M_{\theta\theta}$8.20; $M_{\phi\phi}$−7.92; $M_{r\theta}$1.13; $M_{r\phi}$0.40; $M_{\theta\phi}$−2.58. Depth 23km; Principal axes: T 8.73,Plg7°,Azm9°; N −0.36,Plg82°, Azm220°; P −8.36,Plg4°,Azm99°. Best double couple: $M_0$8.5×10^{17}Nm; NP1:ϕ_S144°,δ82°, λ2°. NP2:ϕ_S54°,δ88°,λ172°.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s52,c95; Mantle waves: s8,c13; Half duration: 1$\hat{s}$8. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.07±.05; $M_{\theta\theta}$3.93±.06; $M_{\phi\phi}$−3.87±.06; $M_{r\theta}$−0.22±.18; $M_{r\phi}$−0.11±.20; $M_{\theta\phi}$−2.18±.07. Principal Axes: T 4.51,Plg2°,Azm195°; N −0.07,Plg87°,Azm58°; P −4.44,Plg2°,Azm285°. Best double couple: $M_0$4.5×10^{17}Nm, NP1:ϕ_S330°,δ87°,λ0°. NP2:ϕ_S240°,δ90°,λ177°.							
ISC	**IX**	**13 03 06 23**±1.0	**62.9S**±.17	**164.0W**±.34	**10**	**4.2b,4.0s**	**8**	**18-128**
NEIC	IX	13 03 06 22.8	62.93S	163.96W	10			**¶97ix1904**
EIDC	IX	13 03 06 23.6	63.0S	163.9W	0	4.2s,4.1b		
NEIC	Less reliable solution.							
EIDC	**IX**	**23 21 44 16.3**	**65.1S**	**175.2W**	**0**	**4.0s**,3.9b		**¶97ix3482**
EIDC	LO CONF							
ISC	**IX**	**25 10 06 17.4**±.90	**62.5S**±.16	**162.2W**±.30	**10**	**4.2b,4.2s**	**11**	**19-127**
NEIC	IX	25 10 06 16.8	62.47S	162.13W	10	4.3b		**¶97ix3720**
EIDC	IX	25 10 06 17.3	62.5S	162.1W	0	4.1b,4.3s		
NEIC	Less reliable solution.							
ISC	**IX**	**25 10 51 53.0**±.90	**62.4S**±.15	**161.0W**±.33	**10**	**4.2b,4.3s**	**10**	**19-153**
NEIC	IX	25 10 51 52.8	62.43S	160.98W	10	4.4b		**¶97ix3728**
EIDC	IX	25 10 51 53.3	62.4S	161.0W	0	4.3s,4.1b		
NEIC	Less reliable solution.							
ISC	**X**	**01 15 29 25.8**±.94	**59.7S**±.19	**151.3W**±.28	**10**	**4.4b**,4.9s	**16**	**31-154**
NEIC	X	01 15 29 25.6	59.56S	151.34W	10	4.5b		**¶97x0110**
EIDC	X	01 15 29 29.3	59.2S	151.0W	21	4.1b		
NEIC	Less reliable solution.							
ISC	**X**	**26 13 55 33.5**±.35	**54.08S**±.076	**133.2W**±.14	**10**	**4.7b,5.5s**	**199**	**32-174**
NEIC	X	26 13 55 33.1	54.12S	132.97W	10	5.1b,5.5s		**¶97x4471**
EIDC	X	26 13 55 38.4	54.4S	132.9W	23	4.2b,5.4s		
MOS	X	26 13 55 41.5	54.6S	135.4W	10	5.7b,5.5s		
BJI	X	26 13 55 43.1	54.10S	132.90W	10	5.6s		
HRVD	X	26 13 55 47.0±.2	54.28S±.03	132.79W±.04	15			
NEIC	Mw5.8(HRV), Less reliable solution.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s47,c89; Half duration: 1$\hat{s}$8. Moment tensor: Scale 10^{17}Nm; M_{rr}0.17±.09; $M_{\theta\theta}$2.74±.12; $M_{\phi\phi}$−2.90±.09; $M_{r\theta}$0.03±.29; $M_{r\phi}$−0.19±.33; $M_{\theta\phi}$3.91±.11. Principal Axes: T 4.74,Plg1°,Azm153°; N 0.17, Plg88°,Azm42°; P −4.91,Plg2°,Azm243°. Best double couple: $M_0$4.8×10^{17}Nm, NP1:ϕ_S288°, δ88°,λ−1°. NP2:ϕ_S18°,δ89°,λ−178°.							
ISC	**X**	**26 15 33 32.9**±.86	**54.1S**±.20	**133.3W**±.26	**10**	**4.3b**	**12**	**36-158**
NEIC	X	26 15 33 32.7	54.13S	133.15W	10	4.6b		**¶97x4490**
EIDC	X	26 15 33 32.9	54.2S	133.2W	0	4.2b		
NEIC	Poor solution.							
ISC	**X**	**26 18 14 13.6**±.42	**55.4S**±.15	**129.5W**±.15	**10**	**4.8b,5.0s**	**93**	**31-160**
NEIC	X	26 18 14 13.8	55.37S	129.48W	10	4.9b,5.1s		**¶97x4509**
EIDC	X	26 18 14 14.1	55.4S	129.5W	0	4.6b,4.8s		
BJI	X	26 18 14 16.6	55.40S	129.50W	10			
HRVD	X	26 18 14 21.5±.2	55.18S±.02	129.74W±.05	15			
NEIC	Mw5.7(HRV), Less reliable solution.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c84; Half duration: 1$\hat{s}$7. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.73±.08; $M_{\theta\theta}$2.62±.11; $M_{\phi\phi}$−1.89±.07; $M_{r\theta}$0.76±.31; $M_{r\phi}$−0.43±.23; $M_{\theta\phi}$3.44±.09. Principal Axes: T 4.52,Plg5°,Azm332°; N −0.60, Plg76°,Azm83°; P −3.92,Plg13°,Azm241°. Best double couple: $M_0$4.2×10^{17}Nm, NP1:ϕ_S17°, δ77°,λ−174°. NP2:ϕ_S286°,δ85°,λ−13°.							
ISC	**X**	**27 00 55 18.9**±.56	**54.3S**±.13	**133.4W**±.17	**10**	**4.6b,5.0s**	**34**	**36-159**
NEIC	X	27 00 55 18.6	54.27S	133.37W	10	4.7b,5.1s		**¶97x4544**
EIDC	X	27 00 55 18.9	54.2S	133.5W	0	4.5b,4.9s		
BJI	X	27 00 55 24.6	54.30S	133.40W	10			
HRVD	X	27 00 55 28.5±.3	54.07S±.07	133.27W±.09	15			
NEIC	Mw5.3(HRV), Less reliable solution.							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c50; Half duration: 1$\hat{s}$1. Moment tensor: Scale 10^{16}Nm; M_{rr}2.05±.50; $M_{\theta\theta}$3.37±.72; $M_{\phi\phi}$−5.42±.36; $M_{r\theta}$−1.44±1.40; $M_{r\phi}$4.40±1.26; $M_{\theta\phi}$8.21±.44. Principal Axes: T 8.5,Plg11°,Azm326°; N 3.3, Plg69°,Azm206°; P −11.8,Plg18°,Azm60°. Best double couple: $M_0$1.0×10^{17}Nm, NP1: ϕ_S102°,δ69°,λ−5°. NP2:ϕ_S194°,δ85°,λ−159°.							
EIDC	**X**	**28 01 10 17.2**	**54.4S**	**138.8W**	**0**	**4.3s,3.9b**		**¶97x4680**
NEIC	**XII**	**12 12 02 00.7**	**56.50S**	**142.01W**	**10**	**4.6b**		**48-146**
EIDC	XII	12 12 02 01.0±.80	56.5S	142.0W	0	4.3b		**¶97xii2745**
BJI	XII	12 12 02 03.0	56.50S	142.00W	10			
NEIC	Poor solution.							
EIDC	Error ellipse is semi−major=96.1km semi−minor=20.0km azimuth=179							

(692) Southern Pacific Ocean.

ISC	**VII**	**20 16 36 07.4**±.66	**37.2S**±.11	**96.1W**±.23	**10**	**4.4b**	**17**	**32-155**
								¶97vii3120
ISC	**IX**	**05 15 50 35.2**±.81	**41.2S**±.14	**91.0W**±.38	**10**	**4.0b**	**9**	**32-150**
EIDC	IX	05 15 50 35.0	41.2S	91.1W	0	3.9b		**¶97ix0765**
NEIC	IX	05 15 50 38.7	41.22S	90.80W	33	4.2b		
NEIC	Poor solution.							
ISC	**IX**	**06 08 42 48.6**±.67	**36.2S**±.12	**100.2W**±.15	**10**	**4.3b,3.9s**	**21**	**24-156**
EIDC	IX	06 08 42 48.3	36.2S	100.2W	0	4.3b,4.0s		**¶97ix0888**
NEIC	IX	06 08 42 48.6	36.18S	100.08W	10	4.4b		
NEIC	Less reliable solution.							
ISC	**IX**	**10 21 21 47.9**±.92	**35.7S**±.16	**100.9W**±.21	**10**	**4.2b**,4.8s	**13**	**24-155**
EIDC	IX	10 21 21 47.8	35.7S	100.9W	0	4.1b,4.2s		**¶97ix1580**
NEIC	IX	10 21 21 48.0	35.72S	100.82W	10	4.4b		
NEIC	Less reliable solution.							
ISC	**IX**	**11 22 20 09.3**±.37	**36.25S**±.072	**101.07W**±.081	**10**	**4.9b,4.9s**	**122**	**11-176**
BJI	IX	11 22 20 09.5	36.20S	101.00W	10			**¶97ix1738**
NEIC	IX	11 22 20 09.5	36.23S	101.03W	10	4.9b,4.9s		
EIDC	IX	11 22 20 13.0	36.2S	101.1W	22	4.6b,4.9s		
HRVD	IX	11 22 20 14.1±.2	36.13S±.02	100.91W±.03	15			
NEIC	Mw5.6(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s45,c75; Half duration: 1$\hat{s}$5. Moment tensor: Scale 10^{17}Nm; M_{rr}0.08±.04; $M_{\theta\theta}$−0.66±.05; $M_{\phi\phi}$0.58±.05; $M_{r\theta}$−0.72±.13; $M_{r\phi}$0.03±.15; $M_{\theta\phi}$−2.40±.04. Principal Axes: T 2.54,Plg11°,Azm231°; N 0.10, Plg74°,Azm99°; P −2.64,Plg12°,Azm323°. Best double couple: $M_0$2.6×10^{17}Nm, NP1:ϕ_S7°, δ74°,λ0°. NP2:ϕ_S97°,δ90°,λ−164°.							
ISC	**X**	**10 17 08 56**±3.2	**36.0S**±.55	**100.9W**±.52	**10**	**4.0b**	**8**	**24-155**
EIDC	X	10 17 08 56.5	36.0S	100.8W	0	4.0b,4.0s		**¶97x1777**
ISC	Poorly determined							
ISC	**XI**	**12 03 26 38.3**±.38	**35.50S**±.068	**105.00W**±.091	**10**	**4.9b,5.0s**	**167**	**27-176**
EIDC	XI	12 03 26 37.2	35.5S	105.3W	0	5.1s,4.8b		**¶97xi1926**
NEIC	XI	12 03 26 37.5	35.60S	105.04W	10	5.0b,4.9s		
MOS	XI	12 03 26 38.6	35.6S	105.6W	10	5.5b,4.9s		
BJI	XI	12 03 26 40.5	35.60S	105.00W	10	5.8s		
HRVD	XI	12 03 26 44.2±.2	35.50S±.03	104.80W±.03	15			
NEIC	Mw5.6(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s35,c70; Half duration: 1$\hat{s}$5. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.78±.06; $M_{\theta\theta}$0.29±.06; $M_{\phi\phi}$0.50±.09; $M_{r\theta}$0.25±.17; $M_{r\phi}$0.11±.23; $M_{\theta\phi}$−2.60±.06. Principal Axes: T 2.99,Plg2°,Azm46°; N −0.74, Plg80°,Azm307°; P −2.26,Plg10°,Azm136°. Best double couple: $M_0$2.6×10^{17}Nm, NP1: ϕ_S181°,δ82°,λ−6°. NP2:ϕ_S272°,δ84°,λ−172°.							
ISC	**XI**	**12 04 52 49.2**±.71	**35.1S**±.12	**104.5W**±.20	**10**	**4.3b**,4.5s	**20**	**27-153**
NEIC	XI	12 04 52 48.8	35.13S	104.66W	10	4.6b		**¶97xi1940**
EIDC	XI	12 04 52 49.1	35.0S	104.5W	0	4.2b,4.7s		
NEIC	Less reliable solution.							
ISC	**XI**	**24 11 11 51.8**±.64	**37.0S**±.13	**96.0W**±.16	**10**	**4.7b**,4.5s	**41**	**20-164**
BJI	XI	24 11 11 51.1	37.10S	96.00W	10			**¶97xi4306**
NEIC	XI	24 11 11 51.1	37.10S	96.07W	10	4.8b,4.4s		
EIDC	XI	24 11 11 51.1	37.1S	96.2W	0	4.4b,4.4s		
NEIC	Less reliable solution.							
ISC	**XI**	**27 04 32 22**±2.6	**35.2S**±.40	**105.0W**±.40	**10**	**4.2b**,3.9s	**15**	**28-160**
NEIC	XI	27 04 32 20.1	35.42S	105.12W	10			**¶97xi4794**
EIDC	XI	27 04 32 20.3	35.4S	105.1W	0	4.2b,4.3s		
NEIC	Poor solution.							
ISC	**XII**	**02 12 07 28.5**±.97	**35.6S**±.18	**102.6W**±.23	**10**	**4.5b,4.2s**	**22**	**26-161**
EIDC	XII	02 12 07 28.7±.83	35.5S	102.5W	0	4.4b,4.4s		**¶97xii0240**
NEIC	XII	02 12 07 29.6	35.31S	102.20W	10	4.7b		
EIDC	Error ellipse is semi−major=29.9km semi−minor=23.3km azimuth=43							
NEIC	Less reliable solution.							
EIDC	**XII**	**19 11 39 53.8**±3.99	**36.5S**	**98.4W**	**0**	**4.0b**		**66-156**
								¶97xii3943
EIDC	Error ellipse is semi−major=395.5km semi−minor=64.9km azimuth=93							
ISC	**XII**	**19 11 44 29.5**±.64	**36.4S**±.12	**99.8W**±.26	**10**	**4.5b,4.3s**	**32**	**23-156**
NEIC	XII	19 11 44 29.3	36.40S	99.41W	10	4.6b		**¶97xii3947**
EIDC	XII	19 11 44 29.5±.69	36.4S	100.0W	0	4.4b,4.3s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=29.9km semi−minor=20.2km azimuth=70							

SEISMIC REGION 44.
GALAPAGOS AREA.

(693) East Central Pacific Ocean.

EIDC VII 14 18 22 51.0 13.2S 119.2W 0 3.4b 45-76 ¶97vii2186
ISC VII 31 11 36 23±4.6 **3.1N**±.65 **104.2W**±.89 **10 3.6b 4 26-100**
EIDC VII 31 11 36 27.9 3.4N 104.0W 25 3.6b **¶97vii4723**
ISC Poorly determined
ISC VII 31 16 21 37±1.6 **3.0N**±.27 **103.8W**±.49 **10 3.7b**,3.6s **7 26-69**
NEIC VII 31 16 21 36.9 3.04N 103.72W 10 3.7b **¶97vii4761**
EIDC VII 31 16 21 37.2 3.1N 103.7W 0 3.8b,3.6s
NEIC Poor solution.
ISC VIII 01 09 55 45±5.6 **2.0N**±.72 **101.6W**±.58 **10 4.0b 8 27-71**
EIDC VIII 01 09 55 47.3 2.3N 101.8W 0 3.9b,3.5s **¶97viii0045**
ISC VIII 01 10 06 52±3.3 **3.3N**±.46 **105.2W**±.67 **10 3.7b**,3.4s **7 26-68**
EIDC VIII 01 10 06 55.7 3.9N 104.5W 0 3.7b,3.4s **¶97viii0047**
ISC VIII 05 16 01 16±3.7 **2.5N**±.62 **101.1W**±.88 **10 3.7b**,3.8s **6 27-151**
EIDC VIII 05 16 01 13.6 2.1N 101.6W 0 3.9s,3.8b **¶97viii0690**
ISC IX 12 17 23 50±3.9 **2.0N**±.63 **102.2W**±.89 **10 3.5b 5 27-151**
EIDC IX 12 17 23 51.3 2.2N 101.8W 0 3.6b,3.8s **¶97ix1853**
ISC Poorly determined
ISC X 28 19 25 30.5±.96 **1.5N**±.15 **101.2W**±.20 **10 4.5b,4.2s 47 24-152**
NEIC X 28 19 25 29.2 1.32N 101.37W 10 4.7b,4.1s **¶97x4805**
EIDC X 28 19 25 29.2 1.4N 101.4W 0 4.3b,4.2s
NEIC Less reliable solution.
ISC X 28 22 21 43±3.6 **2.5N**±.53 **104.7W**±.77 **10 3.6b 5 27-149**
EIDC X 28 22 21 41.0 2.2N 105.0W 0 3.6b **¶97x4825**
ISC Poorly determined
ISC X 29 05 53 28.4±.68 **1.41N**±.095 **101.1W**±.11 **10 4.8b,4.7s 74 16-152**
NEIC X 29 05 53 27.8 1.35N 101.17W 10 5.0b **¶97x4862**
BJI X 29 05 53 30.8 1.40N 101.20W 10
EIDC X 29 05 53 30.9 1.4N 101.3W 20 4.4b,4.7s
ISC X 29 06 17 27±2.0 **1.4N**±.29 **101.5W**±.38 **10 4.3b 20 28-152**
NEIC X 29 06 17 26.8 1.36N 101.49W 10 4.5b **¶97x4866**
EIDC X 29 06 17 30.3 1.3N 101.6W 21 4.0b
NEIC Less reliable solution.
ISC XI 11 13 58 39±1.9 **5.7N**±.27 **103.7W**±.81 **10 3.9b 5 24-66**
EIDC XI 11 13 58 43.2 5.8N 103.5W 21 3.7b **¶97xi1799**

(694) Northern Easter I. Cordillera.

ISC VII 16 01 59 56±2.9 **8.0S**±.42 **109.6W**±.54 **10 3.7b 8 38-78**
NEIC VII 16 01 59 55.7 7.99S 109.54W 10 3.5b **¶97vii2378**
EIDC VII 16 01 59 57.1 7.8S 109.4W 0 3.7b
NEIC Poor solution.
ISC VII 21 07 46 40.5±.45 **8.77S**±.062 **108.15W**±.095 **10 4.7b,4.7s 123 31-152**
BJI VII 21 07 46 40.1 8.50S 107.80W 10 **¶97vii3215**
NEIC VII 21 07 46 40.1 8.80S 108.16W 10 5.0b,4.7s
EIDC VII 21 07 46 40.3 8.7S 108.1W 0 4.4b,4.8s
HRVD VII 21 07 46 47.8±.3 8.67S±.04 108.00W±.04 15
NEIC Mw5.4(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c53; Half duration: 1ŝ2. Moment tensor: Scale 10^{17}Nm; M_{rr}0.00±.03; $M_{\theta\theta}$−0.75±.04; $M_{\phi\phi}$0.75±.05; $M_{r\theta}$0.54±.14; $M_{r\phi}$−0.10±.17; $M_{\theta\phi}$1.14±.04. Principal Axes: T 1.39,Plg7°,Azm300°; N 0.16, Plg70°,Azm50°; P −1.54,Plg19°,Azm207°. Best double couple: $M_0$1.5×10^{17}Nm, NP1: ϕ_S345°,δ72°,λ−172°. NP2:ϕ_S252°,δ82°,λ−19°.
ISC VII 21 08 32 56.7±.53 **8.74S**±.074 **108.13W**±.099 **10 4.7b,4.2s 109 31-152**
EIDC VII 21 08 32 56.0 8.8S 108.3W 0 4.5b,4.3s **¶97vii3218**
NEIC VII 21 08 32 56.3 8.77S 108.13W 10 4.8b,4.3s
BJI VII 21 08 32 58.3 8.70S 108.10W 10
ISC VII 21 14 56 22.2±.81 **8.8S**±.11 **108.1W**±.13 **10 4.6b,4.2s 81 38-152**
EIDC VII 21 14 56 20.9 8.9S 108.3W 0 4.5b,4.2s **¶97vii3252**
NEIC VII 21 14 56 21.9 8.77S 108.09W 10 4.8b,4.2s
NEIC Less reliable solution.
ISC VII 28 00 33 29±3.1 **9.9S**±.48 **109.0W**±.58 **10 3.6b**,4.0s **5 39-80**
EIDC VII 28 00 33 28.3 10.1S 109.1W 0 3.7b,4.0s **¶97vii4188**
ISC VIII 12 08 55 53±1.4 **4.8S**±.18 **106.1W**±.31 **10 4.1b,4.0s 15 34-152**
NEIC VIII 12 08 55 53.3 4.82S 106.04W 10 4.8b **¶97viii1706**
EIDC VIII 12 08 55 59.4 4.3S 106.4W 12 3.8b,4.0s
NEIC Poor solution.
ISC VIII 12 11 24 16±1.9 **5.4S**±.28 **107.5W**±.54 **10 4.0b**,4.0s **12 35-151**
EIDC VIII 12 11 24 19.7 4.7S 106.1W 0 4.2s,3.4b **¶97viii1736**
ISC VIII 12 11 31 11±6.6 **5.1S**±.88 **105.2W**±.42 **10 3.8b 7 34-76**
EIDC VIII 12 11 31 15.6 4.4S 105.3W 0 3.7b,3.6s **¶97viii1737**
ISC VIII 15 07 37 49.2±.42 **4.40S**±.061 **105.73W**±.079 **10 5.1b,5.9s 191 24-156**
BJI VIII 15 07 37 48.4 4.33S 105.58W 27 6.5s **¶97viii2178**
NEIC VIII 15 07 37 49.0 4.37S 105.70W 10 5.3b,5.8s
MOS VIII 15 07 37 49.7 4.4S 105.9W 10 5.6b,5.8s
EIDC VIII 15 07 37 50.2 4.1S 105.3W 0 4.7b
HRVD VIII 15 07 37 55.6±.1 4.39S±.01 105.95W±.01 15
NEIC Mw6.3(GS), Me6.3(GS).
NEIC Mw 6.2 (HRV). Ms 6.1 (BRK).
NEIC Radiated energy from the P−wave first−motion solution: 7.1±1.5×10^{13}Nm/12
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S0°,δ88°,λ170°. NP2:ϕ_S90°,δ80°,λ2°. Principal axes: T Plg8°,Azm315°; P Plg6°,Azm46°. Two events about 3.0 seconds apart. Depth from synthetics of broadband displacement seismograms based on the second and larger event .
NEIC Moment tensor solution: s32, scale 10^{18}Nm; M_{rr}−0.06; $M_{\theta\theta}$0.84; $M_{\phi\phi}$−0.78; $M_{r\theta}$0.06; $M_{r\phi}$0.86; $M_{\theta\phi}$2.74. Depth 26km; Principal axes: T 2.99,Plg11°,Azm322°; N −0.02,Plg73°, Azm193°; P −2.97,Plg13°,Azm54°. Best double couple: $M_0$3.0×10^{18}Nm; NP1:ϕ_S98°,δ73°, λ−2°. NP2:ϕ_S188°,δ89°,λ−163°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c118; Mantle waves: s49,c89; Half duration: 3ŝ0. Moment tensor: Scale 10^{18}Nm; M_{rr}0.12±.02; $M_{\theta\theta}$0.77±.02; $M_{\phi\phi}$−0.88±.02; $M_{r\theta}$0.25±.06; $M_{r\phi}$0.56±.07; $M_{\theta\phi}$2.15±.01. Principal Axes: T 2.37,Plg13°,Azm325°; N 0.03,Plg75°,Azm174°; P −2.40,Plg7°,Azm56°. Best double couple: $M_0$2.4×10^{18}Nm, NP1:ϕ_S101°,δ75°,λ4°. NP2:ϕ_S10°,δ86°,λ165°.
EIDC VIII 15 07 41 01.5 6.4S 103.9W 0 4.2b 45-78 ¶97viii2180
EIDC IX 03 21 10 56.7 2.3S 105.6W 0 3.8b,4.0s **¶97ix0491**
EIDC XI 02 00 44 37.1 4.3S 103.0W 0 3.9b ¶97xi0168
ISC XI 02 01 00 14±3.6 **2.9S**±.61 **100.8W**±.73 **10 3.7b 6 32-75**
EIDC XI 02 01 00 13.4 3.0S 100.9W 0 3.6b **¶97xi0174**
ISC XI 02 01 03 00±2.4 **2.1S**±.33 **102.6W**±.39 **10 4.1b,4.4s 47 27-98**
NEIC XI 02 01 02 28.3 6.12S 102.73W 10 4.8b,4.4s **¶97xi0176**
EIDC XI 02 01 02 42.5 4.2S 105.8W 0 4.4s,3.8b
NEIC Poor solution.
EIDC XI 08 08 34 12.2 8.7S 108.6W 0 3.8s,3.9b ¶97xi1237
ISC XI 11 02 28 25±1.7 **8.5S**±.21 **108.1W**±.32 **10 4.2b**,3.9s **13 38-152**
NEIC XI 11 02 28 25.0 8.51S 108.10W 10 4.5b **¶97xi1716**
EIDC XI 11 02 28 25.2 8.5S 108.1W 0 4.0b,4.2s
NEIC Poor solution.
EIDC XII 19 18 55 21.0 7.6S 101.0W 0 3.7b 37-80 ¶97xii4018
EIDC Origin time error = 11.32Error ellipse is semi−major=510.7km semi−minor=126.7km azimuth=107
EIDC XII 19 19 22 46.3 7.3S 101.6W 0 3.6b 36-79 ¶97xii4021
EIDC Origin time error = 12.69Error ellipse is semi−major=545.1km semi−minor=139.2km azimuth=109
ISC XII 19 19 34 45±4.4 **4.8S**±.65 **103.8W**±.40 **10 4.1b**,3.8s **7 34-76**
EIDC XII 19 19 34 44.9±6.48 4.9S 103.8W 0 4.0b,4.0s **¶97xii4024**
EIDC Error ellipse is semi−major=163.9km semi−minor=107.5km azimuth=123

(695) West of Galapagos Islands.

ISC VII 23 03 38 00±4.3 **1.2N**±.56 **98.1W**±.39 **10 4.3b**,3.6s **19 29-125**
NEIC VII 23 03 38 06.3 2.03N 98.17W 10 4.2b **¶97vii3476**
EIDC VII 23 03 38 09.8 2.1N 98.2W 18 4.2b,3.8s
NEIC Poor solution.
ISC VII 23 03 43 07±5.7 **1.3N**±.73 **97.9W**±.63 **10 4.0b 11 28-72**
EIDC VII 23 03 43 08.9 1.1N 98.7W 16 3.9b **¶97vii3477**
EIDC IX 10 08 29 51.9 2.0N 96.9W 0 4.3b ¶97ix1497
EIDC LO CONF Location
EIDC X 25 09 48 37.5 1.3N 96.8W 0 4.1b ¶97x4308
EIDC X 25 12 51 35.1 1.4N 96.7W 0 3.8b,3.8s ¶97x4325
ISC XI 02 15 31 20.8±.99 **2.5N**±.16 **98.7W**±.26 **10 4.2b**,3.6s **15 27-153**
EIDC XI 02 15 31 19.0 2.2N 99.1W 0 4.1b,4.0s **¶97xi0293**
NEIC XI 02 15 31 19.8 2.38N 98.74W 10 4.3b
NEIC Poor solution.
ISC XII 15 04 06 05±3.8 **1.3S**±.69 **99.0W**±.87 **10 4.0b 13 31-153**
NEIC XII 15 04 06 05.6 1.08S 98.69W 10 4.1b **¶97xii3240**
EIDC XII 15 04 06 08.7±.84 1.1S 98.7W 18±4.1 3.8b
NEIC Poor solution.
EIDC Error ellipse is semi−major=47.5km semi−minor=20.1km azimuth=72
ISC XII 15 07 27 13±3.8 **1.4S**±.68 **99.1W**±.86 **10 3.9b 14 31-153**
NEIC XII 15 07 27 14.1 1.08S 98.70W 10 4.0b **¶97xii3255**
EIDC XII 15 07 27 17.2±.67 1.1S 98.8W 18±3.6 3.8b
NEIC Poor solution.
EIDC Error ellipse is semi−major=46.1km semi−minor=18.0km azimuth=81

(696) Galapagos Islands region.

EIDC VII 18 00 52 56.7 0.5N 88.7W 0 3.4b 32-76 ¶97vii2671
ISC VII 29 11 13 06.4±.84 **1.4N**±.14 **90.9W**±.15 **10 4.0b,4.3s 17 17-75**
EIDC VII 29 11 13 05.7 1.4N 90.9W 0 4.3s,4.0b **¶97vii4424**
NEIC VII 29 11 13 06.4 1.44N 90.88W 10 4.1b
NEIC Less reliable solution.
ISC VII 29 17 40 06.2±.58 **1.51N**±.085 **91.00W**±.098 **10 4.8b,4.8s 45 16-158**
EIDC VII 29 17 40 05.8 1.6N 90.8W 0 4.9s,4.7b **¶97vii4458**
NEIC VII 29 17 40 06.1 1.54N 90.97W 10 5.1b,4.8s
BJI VII 29 17 40 08.1 1.50N 90.90W 10
HRVD VII 29 17 40 12.9±.2 1.62N±.03 90.79W±.03 15
NEIC Mw5.5(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c70; Half duration: 1ŝ3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.14±.05; $M_{\theta\theta}$−1.01±.05; $M_{\phi\phi}$1.14±.08; $M_{r\theta}$−0.37±.15; $M_{r\phi}$−1.11±.16; $M_{\theta\phi}$−1.47±.04. Principal Axes: T 2.20,Plg21°,Azm68°; N −0.07,Plg57°,Azm194°; P −2.14,Plg24°,Azm328°. Best double couple: $M_0$2.2×10^{17}Nm, NP1:ϕ_S109°,δ57°,λ−177°. NP2:ϕ_S17°,δ88°,λ−33°.
ISC VII 29 18 21 57±1.3 **0.6S**±.28 **93.7W**±.42 **33 3.8b 7 30-89**
EIDC VII 29 18 21 54.3 0.4S 93.3W 0 3.9b **¶97vii4465**
EIDC VII 31 06 34 32.1 0.3N 92.4W 0 3.6b,3.5s **29-75 ¶97vii4688**
EIDC X 19 18 17 00.6 0.2N 93.0W 0 3.7b ¶97x3378
ISC X 25 14 29 02±1.3 **1.6N**±.21 **95.9W**±.45 **10 4.0b 7 29-73**
EIDC X 25 14 29 01.9 1.6N 96.1W 0 4.0b **¶97x4338**
ISC XI 15 21 35 03.8±.72 **0.9N**±.17 **87.0W**±.22 **33 4.3b 21 25-160**
EIDC XI 15 21 34 59.9 1.0N 87.1W 0 4.2b **¶97xi2541**
NEIC XI 15 21 35 03.2 0.87N 87.07W 33 4.5b
NEIC Less reliable solution.
EIDC XII 18 21 30 58.7±7.17 **1.9N 94.9W 0 3.8b 29-73 ¶97xii3833**
EIDC Error ellipse is semi−major=174.9km semi−minor=137.8km azimuth=96

(697) Galapagos Islands.

NEIC VII 29 12 42 28.0 0.70N 91.89W 10 3.8b **29-75**
EIDC VII 29 12 42 27.7 0.5N 92.2W 0 4.0s,3.8b **¶97vii4430**
NEIC Poor solution.
EIDC VIII 29 22 15 58.0 1.0S 90.2W 0 3.9b 33-77 ¶97viii4385

(699) South-east of Galapagos Islands.

EIDC VII 14 01 10 22.6 9.4S 83.2W 0 4.2L_r,3.5b **7-43 ¶97vii2053**

SEISMIC REGION 45.
MACQUARIE LOOP.

(701) West of Macquarie Island.

EIDC VII 15 20 59 05.3 60.4S 148.1E 0 3.8b 29-42 ¶97vii2350
EIDC VII 27 18 41 27.6 56.8S 144.4E 0 3.9b,3.4s **25-149 ¶97vii4151**
ISC VII 28 13 35 19.4±.95 **53.1S**±.10 **140.6E**±.58 **10 4.1b**,3.9s **11 16-83**
NEIC VII 28 13 35 19.1 53.21S 140.09E 10 4.0b **¶97vii4280**
EIDC VII 28 13 35 19.4 53.3S 139.9E 0 4.0b,4.0s
NEIC Poor solution.
ISC VIII 09 23 02 50.7±.85 **56.1S**±.16 **146.8E**±.82 **10 4.1b**,3.1s **14 22-153**
NEIC VIII 09 23 02 50.7 56.14S 146.96E 10 4.0b **¶97viii1316**
EIDC VIII 09 23 02 50.8 56.2S 146.1E 0 4.1b,3.4s
NEIC Poor solution.
EIDC VIII 09 23 49 05.6 55.9S 146.8E 0 3.8b 24-152 ¶97viii1322

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**VIII 16 13 49 06.6**±.67	**52.88S**±.066	**143.1E**±.26	**10**	**4.7b,4.1s**	**36**	**10-154**
EIDC	VIII 16 13 49 06.4	52.9S	143.0E	0	4.5b,4.0s		¶97viii2377
NEIC	VIII 16 13 49 06.5	52.88S	143.20E	10	4.7b		
NEIC	Less reliable solution.						
EIDC	**IX 08 05 43 25.3**	**52.8S**	**139.4E**	**0**	**3.7b,**3.2s		¶97ix1182
EIDC	**IX 10 01 43 45.2**	**57.3S**	**145.4E**	**0**	**3.6b,**3.4s		¶97ix1463
ISC	**IX 19 11 37 09.4**±.96	**55.4S**±.14	**146.3E**±.80	**10**	**3.9b**	**7**	**23-82**
EIDC	IX 19 11 37 09.2	55.5S	146.3E	0	4.0b		¶97ix2788
NEIC	IX 19 11 37 09.3	55.44S	146.31E	10	3.9b		
NEIC	Poor solution.						
ISC	**X 03 02 42 31.8**±.42	**53.62S**±.058	**140.6E**±.12	**10**	**5.2b,5.0s**	**183**	**12-156**
NEIC	X 03 02 42 31.8	53.61S	140.40E	10	5.3b,5.0s		¶97x0371
BJI	X 03 02 42 32.3	52.93S	141.08E	5	5.4b		
EIDC	X 03 02 42 32.6	53.6S	140.4E	0	5.1b		
HRVD	X 03 02 42 36.9±.5	53.56S±.05	140.73E±.09	15			
NEIC	Mw5.4(HRV).						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c35; Half duration: 1$\hat{=}$2. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.30±.04; $M_{\theta\theta}$0.34±.05; $M_{\phi\phi}$−0.05±.05; $M_{r\theta}$−0.57±.16; $M_{r\phi}$−0.02±.14; $M_{\theta\phi}$−1.15±.05. Principal Axes: T 1.42,Plg14°,Azm218°; N −0.23,Plg61°,Azm101°; P −1.20,Plg25°,Azm315°. Best double couple: $M_0$1.3×10^{17}Nm, NP1:ϕ_S354°,δ62°,λ−8°. NP2:ϕ_S88°,δ83°,λ−151°.						
EIDC	**X 03 03 00 11.3**	**56.2S**	**142.2E**	**21**	**3.7b**		**¶97x0374**
NEIC	**X 15 12 41 46.3**	**52.93S**	**140.52E**	**10**	4.4b		**24-152**
EIDC	X 15 12 41 46.9	52.9S	140.2E	0	4.0b,4.0s		¶97x2636
NEIC	Poor solution.						
ISC	**X 17 09 55 17.7**±.45	**57.27S**±.061	**148.0E**±.13	**10**	**5.0b,5.9s**	**251**	**7-160**
NEIC	X 17 09 55 15.2	57.54S	147.97E	10	5.2b,5.9s		¶97x2957
EIDC	X 17 09 55 15.4	57.5S	148.1E	0	4.6b,5.9s		
BJI	X 17 09 55 16.3	57.36S	148.47E	5	5.4b,6.1s		
HRVD	X 17 09 55 25.3±.1	57.68S±.01	148.03E±.02	15			
NEIC	Mw6.2(GS), Mw6.2(HRV).						
NEIC	M0=1.7×10^{18}Nm (PPT).						
NEIC	Moment tensor solution: s11, scale 10^{18}Nm; M_{rr}−0.02; $M_{\theta\theta}$1.04; $M_{\phi\phi}$−1.02; $M_{r\theta}$−0.25; $M_{r\phi}$0.13; $M_{\theta\phi}$−1.70. Depth 12km; Principal axes: T 2.04,Plg8°,Azm209°; N −0.06,Plg82°, Azm32°; P −1.98,Plg0°,Azm299°. Best double couple: $M_0$2.0×10^{18}Nm; NP1:ϕ_S345°,δ84°, λ5°. NP2:ϕ_S254°,δ85°,λ174°.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s56,c132; Mantle waves: s52,c99; Half duration: 2$\hat{=}$9. Moment tensor: Scale 10^{18}Nm; M_{rr}−0.13±.01; $M_{\theta\theta}$1.07±.01; $M_{\phi\phi}$−0.94±.01; $M_{r\theta}$0.23±.05; $M_{r\phi}$−0.07±.05; $M_{\theta\phi}$−1.84±.01. Principal Axes: T 2.18,Plg6°,Azm31°; N −0.16,Plg84°,Azm227°; P −2.03,Plg2°,Azm121°. Best double couple: $M_0$2.1×10^{18}Nm, NP1:ϕ_S166°,δ85°,λ3°. NP2:ϕ_S76°,δ87°,λ175°.						
EIDC	**XI 17 09 09 29.3**	**54.0S**	**142.5E**	**0**	**3.4b,**3.7s		**¶97xi2769**
EIDC	**XI 18 13 09 58.7**	**53.1S**	**142.8E**	**0**	**3.6b**		**¶97xi2965**
EIDC	LO CONF Location						
EIDC	**XI 19 12 42 10.1**	**53.4S**	**140.5E**	**0**	**3.7b**		**¶97xi3218**
EIDC	**XI 22 01 24 33.9**	**60.3S**	**145.9E**	**0**	**3.5b**		**¶97xi3774**
EIDC	LO CONF						
EIDC	**XI 22 21 55 33.6**	**58.4S**	**149.2E**	**0**	**3.7b**		**¶97xi3969**
EIDC	**XI 24 08 00 22.9**	**55.5S**	**142.5E**	**0**	**3.8b**		**¶97xi4282**
EIDC	LO CONF Location						
EIDC	**XI 24 15 15 23.2**	**53.2S**	**141.1E**	**0**	**3.8b**		**¶97xi4337**
EIDC	**XI 24 19 30 41.7**	**53.1S**	**141.4E**	**0**	**3.5b**		**¶97xi4370**
EIDC	**XI 24 19 53 01.3**	**52.2S**	**139.6E**	**0**	**3.7b,**3.9s		**¶97xi4378**
EIDC	**XI 25 07 58 24.1**	**60.1S**	**153.2E**	**0**	**3.7b**		**¶97xi4467**
EIDC	**XI 26 03 53 51.4**	**53.9S**	**142.6E**	**0**	**4.0b,**4.2s		**¶97xi4627**
EIDC	**XI 27 00 16 36.1**	**53.7S**	**141.5E**	**0**	**3.7b,**3.7s		**¶97xi4764**
EIDC	**XI 27 13 28 57.7**	**54.9S**	**143.7E**	**0**	**3.6b,**3.5s		**¶97xi4869**
ISC	**XII 25 05 21 07.2**±.99	**56.9S**±.12	**146.4E**±.73	**10**	**4.0b,**2.9s		**16 19-152**
NEIC	XII 25 05 21 07.2	56.93S	146.35E	10	4.0b		¶97xii4870
EIDC	XII 25 05 21 08.7±1.03	57.1S	144.6E	0	4.1b,3.2s		
NEIC	Poor solution.						
EIDC	Error ellipse is semi−major=88.2km semi−minor=19.6km azimuth=82						
ISC	**XII 25 05 32 51**±1.1	**56.7S**±.14	**148.2E**±.82	**10**	**4.0b,**3.7s		**16 19-152**
EIDC	XII 25 05 32 50.1±1.82	56.6S	149.3E	0	4.0b,3.7s		¶97xii4872
EIDC	Error ellipse is semi−major=139.2km semi−minor=22.2km azimuth=76						

(702) Balleny Islands region.

ISC	**VIII 04 00 32 59.9**±.53	**65.00S**±.084	**177.1E**±.28	**33**	**4.5b,4.7s**	**40**	**13-164**
EIDC	VIII 04 00 32 56.3	65.0S	177.1E	0	4.5b,4.8s		¶97viii0436
NEIC	VIII 04 00 32 59.6	65.12S	177.05E	33	4.6b,4.4s		
NEIC	Less reliable solution.						
ISC	**VIII 04 14 58 58.3**±.91	**62.5S**±.13	**154.7E**±.91	**10**	**4.1b,3.8s**	**10**	**15-134**
NEIC	VIII 04 14 58 58.3	62.50S	154.70E	10	4.1b		¶97viii0518
EIDC	VIII 04 14 58 59.0	62.5S	154.8E	0	4.0b,3.9s		
NEIC	Poor solution.						
EIDC	**VIII 11 01 56 30.0**	**61.9S**	**158.9E**	**0**	3.7b,4.4L		**16-45**
							¶97viii1492
ISC	**IX 05 00 51 22**±2.0	**61.2S**±.13	**159E**±1.1	**10**	**4.0b,**4.1s	**8**	**16-45**
EIDC	IX 05 00 51 22.5	61.1S	159.5E	0	4.0b,3.9s		¶97ix0660
ISC	**IX 23 17 51 23.0**±.51	**65.36S**±.059	**179.2E**±.25	**10**	**4.9b,5.5s**	**92**	**13-164**
NEIC	IX 23 17 51 23.4	65.53S	178.81E	10	5.0b,5.9s		¶97ix3462
EIDC	IX 23 17 51 24.0	65.4S	179.0E	0	4.6b,5.4s		
BJI	IX 23 17 51 25.4	65.50S	178.80E	20	5.4s		
MOS	IX 23 17 51 25.5	65.9S	179.8W	10	5.6b,5.5s		
HRVD	IX 23 17 51 26.8±.1	65.35S±.01	179.55W±.04	15			
NEIC	Mw5.8(HRV), Less reliable solution.						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s57,c105; Half duration: 1$\hat{=}$9. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.52±.06; $M_{\theta\theta}$5.98±.07; $M_{\phi\phi}$−5.46±.08; $M_{r\theta}$0.08±.20; $M_{r\phi}$−0.91±.19; $M_{\theta\phi}$−0.84±.07. Principal Axes: T 6.04,Plg1°,Azm4°; N −0.36, Plg80°,Azm102°; P −5.68,Plg10°,Azm274°. Best double couple: $M_0$5.9×10^{17}Nm, NP1: ϕ_S50°,δ82°,λ−174°. NP2:ϕ_S319°,δ84°,λ−8°.						
ISC	**XI 10 01 10 57**±1.3	**65.2S**±.21	**175.7E**±.64	**10**	**4.2b,**4.4s	**7**	**39-147**
EIDC	XI 10 01 10 56.6	65.2S	176.2E	0	4.2b,4.4s		¶97xi1536
NEIC	XI 10 01 10 56.9	65.19S	175.93E	10			
NEIC	Poor solution.						
EIDC	**XI 10 18 56 06.5**	**64.2S**	**158.4E**	**0**	**3.7b**		**¶97xi1657**
EIDC	**XI 12 08 19 45.3**	**65.6S**	**170.0E**	**0**	**4.4b**		**¶97xi1957**
NEIC	**XI 19 02 00 54.1**	**61.52S**	**152.95E**	**10**			**16-72**
EIDC	XI 19 02 00 54.3	61.5S	152.9E	0	4.2b,4.2s		¶97xi3106
NEIC	Poor solution.						
EIDC	**XI 22 02 21 52.5**	**61.6S**	**150.8E**	**0**	**3.6b**		**¶97xi3784**
ISC	**XI 27 17 30 48**±2.1	**61.9S**±.17	**155.7E**±.73	**10**	**4.3b,4.2s**	**14**	**8-52**
NEIC	XI 27 17 30 49.0	61.80S	155.52E	10	4.3b		¶97xi4907
EIDC	XI 27 17 30 51.0	61.8S	154.2E	0	4.3b,4.2s		
NEIC	Poor solution.						
ISC	**XI 30 22 44 08**±2.0	**67.7S**±.20	**170.6E**±.68	**10**	**4.2b**	**12**	**12-158**
EIDC	XI 30 22 44 27.2	68.3S	156.4E	0	4.2b		¶97xi5475
NEIC	XI 30 22 44 30.5	68.10S	153.95E	10	4.1b		
EIDC	LO CONF Location						
NEIC	Poor solution.						
ISC	**XII 16 07 06 56.4**±.58	**62.33S**±.067	**164.9E**±.29	**10**	**4.5b,5.6s**	**85**	**15-161**
NEIC	XII 16 07 06 56.5	62.88S	163.19E	10	4.7b,5.6s		¶97xii3399
EIDC	XII 16 07 06 56.9±.84	62.9S	163.0E	0	5.4s,4.4b		
MOS	XII 16 07 07 03.7	63.0S	158.8E	10	5.5b		
HRVD	XII 16 07 07 04.4±.1	62.46S±.02	165.03E±.04	15			
NEIC	Mw5.9(HRV).						
EIDC	Error ellipse is semi−major=72.9km semi−minor=20.8km azimuth=53						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s44,c90; Half duration: 2$\hat{=}$3. Moment tensor: Scale 10^{17}Nm; M_{rr}−0.64±.10; $M_{\theta\theta}$8.42±.13; $M_{\phi\phi}$−7.78±.11; $M_{r\theta}$1.71±.35; $M_{r\phi}$−1.96±.38; $M_{\theta\phi}$−2.49±.13. Principal Axes: T 9.20,Plg12°,Azm10°; N −0.68, Plg73°,Azm141°; P −8.52,Plg12°,Azm277°. Best double couple: $M_0$8.9×10^{17}Nm, NP1: ϕ_S53°,δ73°,λ−179°. NP2:ϕ_S323°,δ89°,λ−17°.						
ISC	**XII 18 23 40 31.8**±.94	**65.0S**±.12	**176.8E**±.42	**10**	**3.9b,**4.0s	**10**	**13-147**
NEIC	XII 18 23 40 31.7	64.97S	176.98E	10			¶97xii3855
EIDC	XII 18 23 40 31.7±.92	64.9S	177.1E	0	3.9b,4.5s		
NEIC	Less reliable solution.						
EIDC	Error ellipse is semi−major=60.7km semi−minor=22.4km azimuth=42						

SEISMIC REGION 46.
ANDAMAN ISLANDS TO SUMATERA.

(703) Andaman Islands region.

ISC	**VII 10 18 06 30.6**±.95	**10.0N**±.15	**92.4E**±.17	**50**	**3.9b**	**8**	**10-93**
EIDC	VII 10 18 06 25.4	9.8N	92.2E	0	3.9b,4.1L		¶97vii1542
NEIC	VII 10 18 06 30.6	10.03N	92.44E	50			
NEIC	Single network solution.						
ISC	**IX 15 09 09 45**±1.0	**12.0N**±.32	**96.1E**±.40	**33**	**3.9b**	**5**	**49-83**
EIDC	IX 15 09 09 41.5	12.0N	96.0E	0	3.9b		¶97ix2219
ISC	**IX 27 21 38 02**±3.0	**10.2N**±.17	**92.5E**±.52	**33**	**3.3b**	**4**	**10-53**
EIDC	IX 27 21 37 57.8	10.2N	92.3E	0	3.3b,3.9L		¶97ix4460
ISC	Poorly determined						
ISC	**X 14 14 06 44**±1.2	**12.3N**±.14	**93.6E**±.20	**33**	**4.1b**	**7**	**7-74**
EIDC	X 14 14 06 41.3	12.2N	93.5E	0	3.9b,4.4L		¶97x2420
ISC	**X 17 02 44 00**±2.5	**11.2N**±.14	**92.51E**±.094	**37**±23	**3.8b**	**15**	**10-137**
EIDC	X 17 02 43 55.3	11.1N	92.3E	0	3.9b,4.0L		¶97x2923
NEIC	X 17 02 43 58.8	11.15N	92.45E	33	4.0b		
NEIC	Less reliable solution.						
ISC	**X 25 18 40 14**±3.9	**10.91N**±.053	**92.49E**±.051	**8**±23	**4.6b,3.9s**	**70**	**9-147**
BJI	X 25 18 40 16.6	10.84N	92.49E	33	4.6b		¶97x4356
MOS	X 25 18 40 17.2	10.9N	92.4E	33	5.2b		
NEIC	X 25 18 40 17.7	10.95N	92.52E	33	4.8b		
EIDC	X 25 18 40 18.7	10.9N	92.5E	27	4.2b,3.8s		
ISC	**X 30 06 30 27**±1.1	**11.59N**±.036	**93.02E**±.044	**43**±9.9	**4.9b,4.3s**	**155**	**9-161**
MOS	X 30 06 30 25.4	11.5N	93.0E	33	5.2b,4.2s		¶97x5003
BJI	X 30 06 30 27.9	11.52N	93.05E	64	4.9b,4.4s		
NEIC	X 30 06 30 28.4	11.61N	93.02E	56	4.9b		
EIDC	X 30 06 30 30.2	11.6N	93.1E	57	4.5b		
ISC	**XI 01 13 42 04**±1.0	**13.1N**±.16	**93.5E**±.17	**33**	**4.1b**	**9**	**7-135**
NEIC	XI 01 13 42 04.1	13.11N	93.50E	33			¶97xi0090
EIDC	XI 01 13 42 10.0	13.2N	93.6E	64	3.6b,3.8L		
NEIC	Single network solution.						
ISC	**XI 17 00 37 55**±6.0	**11.1N**±.18	**92.6E**±.23	**43**±52	**3.8b**	**11**	**10-76**
EIDC	XI 17 00 37 50.8	11.1N	92.5E	0	3.8b		¶97xi2715
NEIC	XI 17 00 37 53.2	11.06N	92.60E	33	3.9b		
NEIC	Less reliable solution.						
ISC	**XII 31 00 00 54**±4.1	**11.10N**±.093	**92.50E**±.087	**21**±30	**4.1b**	**24**	**10-92**
NEIC	XII 31 00 00 55.0	11.10N	92.49E	33	4.1b		¶97xii5802
EIDC	XII 31 00 00 56.8±.63	11.1N	92.5E	30±4.0	4.0b,4.1L		
EIDC	Error ellipse is semi−major=23.2km semi−minor=13.4km azimuth=56						

(704) Nicobar Islands region.

ISC	**VII 07 18 26 46.6**±.96	**7.4N**±.12	**92.3E**±.12	**33**	**3.6b**	**8**	**7-74**
EIDC	VII 07 18 26 43.8	7.4N	92.2E	0	3.6b,4.2L		¶97vii1075
ISC	**VII 26 07 12 01**±5.6	**9.8N**±.19	**93.2E**±.24	**94**±48	**3.7b**	**11**	**10-93**
NEIC	VII 26 07 12 01.5	9.84N	93.24E	100	3.8b		¶97vii3933
EIDC	VII 26 07 12 02.7	9.8N	93.2E	97	3.6b,4.4L		
NEIC	Less reliable solution.						
ISC	**VII 31 11 03 38**±5.3	**8.0N**±.15	**93.0E**±.51	**49**±36	**4.0b**	**9**	**7-54**
DJA	VII 31 11 03 36.8	6.9N	92.2E	304	4.7L,4.2D		¶97vii4717
EIDC	VII 31 11 03 48.1	8.2N	93.7E	95	3.6b,3.7L		
ISC	**VIII 06 04 28 55**±1.9	**8.29N**±.085	**94.0E**±.14	**56**±20	**4.2b**	**25**	**7-145**
EIDC	VIII 06 04 28 49.0	8.1N	93.9E	0	4.2b,4.1L		¶97viii0755
BJI	VIII 06 04 28 51.9	8.18N	93.93E	34			
NEIC	VIII 06 04 28 52.0	8.25N	93.98E	33	4.3b		
EIDC	**VIII 08 10 21 42.6**	**7.6N**	**94.4E**	**0**	**3.8b,**4.3L		**6-76**
NEIC	VIII 08 10 21 46.1	7.68N	94.64E	33			¶97viii1093
NEIC	Single network solution.						
DJA	**VIII 24 20 31 44.6**	**6.0N**	**96.9E**	**33**	4.3D,4.1L		**3-4**
							¶97viii3587
ISC	**VIII 26 13 17 26.4**±.80	**6.43N**±.042	**94.63E**±.064	**113**±7.2	**4.8b**	**92**	**1-147**
BJI	VIII 26 13 17 26.4	6.24N	94.45E	141	4.7b		¶97viii3851
NEIC	VIII 26 13 17 26.6	6.45N	94.60E	114	4.9b		
KLM	VIII 26 13 17 27	6.4N	94.6E	114	4.2L		
EIDC	VIII 26 13 17 28.6	6.5N	94.6E	115	4.5b,3.4s		
HRVD	VIII 26 13 17 28.7±1.6	6.55N±.12	94.74E±.15	120±7.2			
NEIC	Mw5.0(HRV).						
KLM	Mb4.9						
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s11,c13; Half duration: 1$\hat{=}$0. Moment tensor: Scale 10^{16}Nm; M_{rr}−0.69±.32; $M_{\theta\theta}$−1.82±.47; $M_{\phi\phi}$2.50±.63; $M_{r\theta}$0.32±.46; $M_{r\phi}$−0.42±.54; $M_{\theta\phi}$−3.48±.52. Principal Axes: T 4.49,Plg6°,Azm61°; N −0.74, Plg84°,Azm241°; P −3.75,Plg0°,Azm151°. Best double couple: $M_0$4.1×10^{16}Nm, NP1: ϕ_S196°,δ86°,λ4°. NP2:ϕ_S106°,δ86°,λ176°.						
ISC	**IX 14 04 22 13**±1.6	**6.2N**±.17	**94.8E**±.22	**33**	**3.9b**	**6**	**6-74**
EIDC	IX 14 04 22 09.8	6.1N	94.5E	0	3.8b,4.2L		¶97ix2067
ISC	**IX 14 04 23 39.4**±.85	**6.9N**±.12	**94.0E**±.17	**10**	**4.0b**	**8**	**12-79**
NEIC	IX 14 04 23 39.5	6.88N	94.07E	10			¶97ix2068
EIDC	IX 14 04 23 42.6	6.8N	94.0E	18	3.9b		
NEIC	Single network solution.						
EIDC	**IX 21 11 27 09.2**	**7.7N**	**94.1E**	**0**	**3.5b**		**¶97ix3091**
ISC	**X 14 18 13 45**±1.1	**8.27N**±.046	**93.71E**±.059	**38**±10	**4.7b,4.4s**	**86**	**7-161**
KLM	X 14 18 13 44	8.2N	93.6E	33	4.2L		¶97x2464
NEIC	X 14 18 13 44.5	8.27N	93.68E	33	4.9b		
BJI	X 14 18 13 44.9	8.19N	93.31E	44	4.7b,4.9s		
EIDC	X 14 18 13 48.2	8.4N	93.8E	43	4.4b,4.9L		
KLM	Mb4.9						

ISC	**X**	**15 02 59 32**±1.5	**8.3N**±.19	**94.4E**±.27	**33**	**3.9b**	**5**	**11-79**
EIDC	X	15 02 59 28.3	8.1N	94.1E	0	3.8b,4.4L		¶97x2547
ISC	**X**	**16 06 42 34.6**±.42	**8.28N**±.056	**94.27E**±.076	**33**	**4.5b,4.1s**	**44**	**7-145**
EIDC	X	16 06 42 27.3	8.2N	93.6E	0	4.1b,4.1s		¶97x2803
BJI	X	16 06 42 34.1	8.76N	93.56E	14	4.6b,4.5s		
NEIC	X	16 06 42 34.7	8.32N	94.40E	33	4.9b		
NEIC	Less reliable solution.							
ISC	**XI**	**03 00 41 54**±1.9	**9.9N**±.11	**94.12E**±.094	**211**±17	**4.0b**	**49**	**10-146**
NEIC	XI	03 00 41 47.8	9.70N	93.85E	150	4.3b		¶97xi0364
EIDC	XI	03 00 41 52.9	9.9N	94.0E	178	3.8b		
ISC	**XI**	**17 16 55 57.3**±.90	**6.92N**±.037	**94.28E**±.044	**79**±8.6	**4.8b**	**123**	**6-147**
BJI	XI	17 16 55 55.7	6.91N	94.06E	71	5.0b,4.4s		¶97xi2833
NDI	XI	17 16 55 56	6.8N	94.2E	70	4.5b		
KLM	XI	17 16 55 56	6.9N	94.2E	70	4.2L		
NEIC	XI	17 16 55 56.0	6.88N	94.20E	70	4.9b		
EIDC	XI	17 16 55 57.5	6.9N	94.2E	65	4.6b,4.1s		
HRVD	XI	17 16 56 00.3±.9	7.02N±.07	94.45E±.10	70			
KLM	Mb4.9							
NEIC	Mw5.1(HRV).							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s19,c27; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.67±.32; $M_{\theta\theta}$−4.05±.52; $M_{\phi\phi}$1.38±.63; $M_{r\theta}$−3.93±.60; $M_{r\phi}$−1.66±.56; $M_{\theta\phi}$0.00±.52. Principal Axes: T 5.10,Plg58°,Azm134°; N 0.83, Plg17°,Azm255°; P −5.93,Plg25°,Azm354°. Best double couple: $M_0$5.5×10^{16}Nm, NP1: ϕ_S117°,δ25°,λ135°. NP2:ϕ_S250°,δ73°,λ72°.							
ISC	**XI**	**18 21 54 44**±1.4	**6.82N**±.077	**94.3E**±.11	**86**±13	**4.2b**	**28**	**6-96**
EIDC	XI	18 21 54 34.5	6.9N	94.2E	0	4.3b		¶97xi3072
BJI	XI	18 21 54 41.2	6.80N	94.20E	75	4.5b,4.6s		
NEIC	XI	18 21 54 43.2	6.80N	94.23E	84	4.5b		
ISC	**XI**	**26 04 42 07**±3.5	**7.4N**±.14	**94.5E**±.24	**61**±37	**4.0b**	**15**	**6-80**
EIDC	XI	26 04 42 02.4	5.8N	92.8E	32	3.9b		¶97xi4635
BJI	XI	26 04 42 04.0	7.40N	94.30E	33			
NEIC	XI	26 04 42 04.0	7.37N	94.35E	33	3.7b		
NEIC	Less reliable solution.							
ISC	**XI**	**27 16 58 35**±1.7	**6.5N**±.10	**94.0E**±.12	**82**±18	**4.1b**	**17**	**6-140**
BJI	XI	27 16 58 27.8	6.20N	94.16E	39			¶97xi4904
NEIC	XI	27 16 58 29.5	6.49N	93.61E	33			
EIDC	XI	27 16 58 38.8	6.6N	94.0E	98	3.9b		
NEIC	Less reliable solution.							
EIDC	**XII**	**13 22 54 09.1**±7.61	**8.6N**	**93.5E**	**0**	**4.1b**,3.9L		**11-74**
								¶97xii3034
EIDC	Error ellipse is semi−major=187.8km semi−minor=62.3km azimuth=145							
ISC	**XII**	**15 21 18 54**±3.8	**8.3N**±.41	**94.0E**±.27	**33**	**4.1b**	**8**	**11-79**
EIDC	XII	15 21 18 32.1	5.9N	96.4E	0	4.2b,4.0L		¶97xii3344
EIDC	Origin time error = 34.28Error ellipse is semi−major=1045.8km semi−minor=72.3km azimuth=120							
ISC	**XII**	**16 20 20 53**±1.1	**7.53N**±.053	**94.20E**±.067	**38**±12	**4.5b,4.2s**	**70**	**6-147**
BJI	XII	16 20 20 46.2	6.80N	93.85E	33	4.8b,4.5s		¶97xii3496
EIDC	XII	16 20 20 49.3±.55	7.6N	94.3E	0	4.4b,3.6s		
NDI	XII	16 20 20 52.8	7.57N	94.27E	33	5.0b		
NEIC	XII	16 20 20 52.8	7.58N	94.28E	33	5.0b		
EIDC	Error ellipse is semi−major=23.6km semi−minor=14.2km azimuth=59							
ISC	**XII**	**19 04 13 43**±6.1	**7.9N**±.29	**94.7E**±.29	**143**±53	**3.6b**	**16**	**11-80**
NEIC	XII	19 04 13 27.9	7.39N	94.05E	19			¶97xii3889
EIDC	XII	19 04 13 29.5±1.17	7.4N	94.0E	18±5.9	3.6b,3.9s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=54.5km semi−minor=20.9km azimuth=54							
ISC	**XII**	**19 04 18 01**±3.3	**7.8N**±.15	**94.6E**±.19	**80**±30	**4.1b**	**30**	**6-145**
NEIC	XII	19 04 17 53.6	7.63N	94.31E	20	4.0b		¶97xii3890
EIDC	XII	19 04 17 55.1±.79	7.6N	94.4E	18±3.5	4.1b,3.3s		
BJI	XII	19 04 17 56.6	7.60N	94.30E	20	4.4b		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=31.3km semi−minor=17.7km azimuth=60							
ISC	**XII**	**19 04 44 47**±1.6	**7.53N**±.061	**94.22E**±.062	**37**±14	**4.7b,4.3s**	**88**	**6-144**
BJI	XII	19 04 44 44.2	7.06N	93.74E	49	4.8b,4.8s		¶97xii3893
NEIC	XII	19 04 44 44.2	7.47N	94.22E	19	5.0b		
EIDC	XII	19 04 44 45.8±.51	7.5N	94.2E	19±2.4	4.3b,4.3s		
EIDC	Error ellipse is semi−major=20.4km semi−minor=13.0km azimuth=59							
ISC	**XII**	**19 04 48 02**±1.0	**7.1N**±.16	**93.8E**±.19	**33**	**4.2b**	**16**	**11-144**
NEIC	XII	19 04 48 00.0	7.08N	93.77E	18	4.4b		¶97xii3894
EIDC	XII	19 04 48 01.8±.89	7.1N	93.7E	17±3.2	4.1b,3.9L		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=45.0km semi−minor=22.4km azimuth=52							
ISC	**XII**	**19 05 50 36**±2.4	**7.5N**±.11	**94.32E**±.082	**44**±20	**4.4b**,4.4s	**45**	**10-144**
NEIC	XII	19 05 50 32.1	7.48N	94.23E	18	4.7b		¶97xii3901
EIDC	XII	19 05 50 34.2±.47	7.5N	94.1E	15±2.3	4.1b,3.8s		
EIDC	Error ellipse is semi−major=20.7km semi−minor=13.0km azimuth=54							
ISC	**XII**	**19 06 45 00**±1.1	**8.0N**±.15	**94.2E**±.19	**33**	**3.9b**	**8**	**11-50**
EIDC	XII	19 06 45 13.7	8.2N	97.1E	0	3.3b		¶97xii3907
EIDC	Origin time error = 24.38Error ellipse is semi−major=718.4km semi−minor=38.7km azimuth=79							
ISC	**XII**	**19 06 52 20**±1.1	**7.4N**±.16	**94.5E**±.15	**33**	**4.0b**	**14**	**12-80**
EIDC	XII	19 06 52 19.0±1.34	7.3N	94.6E	0	3.9b,4.1L		¶97xii3908
NEIC	XII	19 06 52 22.5	7.43N	94.84E	33	4.0b		
EIDC	Error ellipse is semi−major=63.3km semi−minor=28.3km azimuth=48							
NEIC	Poor solution.							
ISC	**XII**	**19 07 16 43**±2.0	**7.46N**±.068	**94.11E**±.059	**39**±17	**4.8b,4.3s**	**91**	**12-144**
BJI	XII	19 07 16 38.6	7.26N	93.76E	27	4.9b,4.5s		¶97xii3913
NEIC	XII	19 07 16 39.1	7.37N	94.12E	17	5.0b		
EIDC	XII	19 07 16 41.0±.42	7.5N	94.1E	17±2.0	4.5b,4.1s		
EIDC	Error ellipse is semi−major=22.8km semi−minor=12.9km azimuth=53							
ISC	**XII**	**19 11 43 04**±3.2	**8.2N**±.33	**93.3E**±.22	**33**	**3.8b**	**16**	**12-77**
EIDC	XII	19 11 42 38.7±1.53	5.3N	96.0E	0	3.7b,3.9L		¶97xii3945
EIDC	Error ellipse is semi−major=62.4km semi−minor=28.2km azimuth=59							
ISC	**XII**	**19 17 50 45**±6.4	**7.7N**±.25	**94.4E**±.26	**118**±58	**3.8b**	**18**	**12-80**
NEIC	XII	19 17 50 34.4	7.31N	93.88E	33			¶97xii4007
EIDC	XII	19 17 50 46.2±8.93	7.7N	94.4E	110±81.9	3.6b,4.1L		
NEIC	Single network solution.							
EIDC	Error ellipse is semi−major=58.4km semi−minor=22.1km azimuth=51							
ISC	**XII**	**24 12 16 03**±4.7	**7.6N**±.18	**94.2E**±.18	**72**±40	**3.9b**	**29**	**12-144**
NEIC	XII	24 12 16 06.1	7.66N	94.30E	100	3.6b		¶97xii4756
EIDC	XII	24 12 16 08.4±7.88	7.7N	94.5E	109±70.4	3.7b,3.7s		
NEIC	Less reliable solution.							
EIDC	Error ellipse is semi−major=49.8km semi−minor=18.9km azimuth=55							
ISC	**XII**	**25 01 44 32**±3.5	**9.9N**±.14	**93.1E**±.15	**119**±32	**4.0b**	**34**	**10-89**
EIDC	XII	25 01 44 34.6±6.38	9.9N	93.1E	125±58.3	3.7b		¶97xii4851
NEIC	XII	25 01 44 35.1	9.98N	93.23E	150	4.1b		
EIDC	Error ellipse is semi−major=33.2km semi−minor=14.8km azimuth=58							
NEIC	Less reliable solution.							

(705) Off west coast of Northern Sumatera.

DJA	**VII**	**01 06 18 42.7**	**2.4N**	**95.5E**	**80**	**5.2L**,3.8D		**3-3**
ISC	DJA magnitude values may be overestimated							¶97vii0039
DJA	**VII**	**05 02 03 49.0**	**3.1N**	**95.3E**	**80**	4.1D,4.0L		**3-4**
								¶97vii0660
EIDC	**VII**	**19 03 10 54.9**	**3.6N**	**91.3E**	**0**	**3.5b**,3.9L		**7-79**
								¶97vii2825
ISC	**VIII**	**03 05 04 43**±1.1	**1.1N**±.15	**94.4E**±.10	**33**	**3.8b**	**15**	**4-145**
EIDC	VIII	03 05 04 37.5	0.0N	93.3E	0	3.9b,4.4L		¶97viii0301
NEIC	VIII	03 05 04 41.1	0.13N	93.54E	33			
DJA	VIII	03 05 04 44.4	1.4N	94.6E	211	5.1L,4.2D		
NEIC	Less reliable solution.							
ISC	**VIII**	**07 21 35 12**±1.9	**3.50N**±.098	**95.7E**±.14	**63**±17	**4.3b**	**29**	**3-84**
BJI	VIII	07 21 35 16.4	3.68N	95.76E	97	4.7b		¶97viii1005
NEIC	VIII	07 21 35 17.1	3.59N	95.76E	100	4.0b		
EIDC	VIII	07 21 35 19.9	3.6N	95.7E	113	3.8b,3.8s		
NEIC	Less reliable solution.							
ISC	**VIII**	**20 06 38 10**±1.3	**3.6N**±.16	**95.7E**±.26	**33**	**4.0b**	**8**	**15-142**
EIDC	VIII	20 06 38 06.3	3.5N	95.5E	0	4.1b		¶97viii2922
NEIC	VIII	20 06 38 10.0	3.60N	95.71E	33			
NEIC	Poor solution.							
ISC	**VIII**	**20 08 02 47**±1.9	**2.8N**±.15	**95.6E**±.19	**33**	**3.5b**	**7**	**3-46**
EIDC	VIII	20 08 02 49.7	3.0N	96.7E	0	3.6b		¶97viii2929
ISC	**VIII**	**27 14 02 16**±1.1	**3.9N**±.13	**94.0E**±.13	**33**	**4.4b**	**11**	**4-76**
EIDC	VIII	27 14 02 11.5	3.4N	94.9E	0	4.3b,4.3L		¶97viii3997
DJA	**VIII**	**29 03 34 11.2**	**3.1N**	**95.1E**	**80**	4.0D,**3.7L**		**3-4**
								¶97viii4230
ISC	**IX**	**13 00 52 43**±1.0	**4.9N**±.14	**93.7E**±.22	**33**	**4.1b**	**11**	**14-80**
NEIC	IX	13 00 52 43.8	4.93N	93.94E	33	4.3b		¶97ix1891
EIDC	IX	13 00 53 09.8	5.8N	95.1E	237	3.5b		
NEIC	Poor solution.							
EIDC	**IX**	**15 11 20 27.3**	**4.0N**	**93.2E**	**0**	3.3b,4.0L		¶97ix2235
EIDC	LO CONF Location							
ISC	**IX**	**20 21 27 50**±8.7	**2.0N**±.31	**95.5E**±.61	**77**±61	**3.8b**	**10**	**3-59**
DJA	IX	20 21 27 42.6	1.8N	94.9E	80	4.9L,4.5D		¶97ix3006
NEIC	IX	20 21 27 44.0	1.82N	95.07E	33			
EIDC	IX	20 21 28 13.6	2.9N	97.3E	215	3.2b		
NEIC	Less reliable solution.							
DJA	**IX**	**21 01 32 25.7**	**2.0N**	**95.2E**	**160**	4.5D,4.2L		¶97ix3027
DJA	**IX**	**24 12 11 57.6**	**0.9N**	**96.4E**	**111**	**4.7L**,4.5D		¶97ix3578
ISC	**IX**	**27 17 14 05**±1.9	**3.76N**±.079	**95.8E**±.15	**70**±16	**4.1b**	**25**	**3-160**
DJA	IX	27 17 14 05.0	3.8N	95.7E	33	5.0L,4.5D		¶97ix4418
EIDC	IX	27 17 14 13.8	3.9N	95.9E	135	3.8b,4.2L		
DJA	**IX**	**30 09 43 27.1**	**3.1N**	**95.6E**	**33**	**4.8L**,4.4D		¶97ix5190
ISC	**X**	**01 22 54 44**±1.9	**3.6N**±.15	**95.9E**±.24	**33**	**4.3b**	**9**	**3-56**
DJA	X	01 22 54 30.3	4.4N	96.1E	320	4.8L,4.6D		¶97x0169
EIDC	X	01 22 54 46.4	3.8N	96.9E	0	4.2b,3.9L		
ISC	**X**	**03 08 16 21**±1.5	**4.72N**±.075	**94.9E**±.11	**62**±14	**4.3b**	**29**	**4-83**
BJI	X	03 08 16 20.1	4.76N	94.79E	60	4.3b		¶97x0422
NEIC	X	03 08 16 20.4	4.68N	94.87E	51	4.1b		
EIDC	X	03 08 16 22.3	4.8N	95.0E	52	4.0b		
NEIC	Less reliable solution.							
EIDC	**X**	**08 20 48 31.4**	**3.9N**	**94.1E**	**49**	**3.9b**		**¶97x1473**
ISC	**XI**	**15 23 33 46**±5.2	**3.2N**±.25	**95.3E**±.42	**41**±42	**3.7b**	**12**	**3-84**
DJA	XI	15 23 33 26.1±1.53	4.2N	95.1E	400	4.8L,4.7D		¶97xi2564
NEIC	XI	15 23 33 48.7	3.29N	95.51E	63			
EIDC	XI	15 23 33 50.1	3.3N	95.3E	61	3.5b		
DJA	Error ellipse is semi−major=131.8km semi−minor=14.0km azimuth=48							
NEIC	Less reliable solution.							
ISC	**XI**	**25 06 24 14**±2.8	**5.9N**±.19	**93.5E**±.52	**33**	**3.5b**	**4**	**14-64**
EIDC	XI	25 06 24 13.7	5.8N	93.8E	0	3.4b,4.2L		¶97xi4458
ISC	Poorly determined							
EIDC	**XI**	**25 06 24 35.6**	**5.8N**	**93.5E**	**0**	**3.6b**,4.4L		¶97xi4459
ISC	**XII**	**15 20 11 19**±1.6	**4.62N**±.075	**94.5E**±.11	**60**±15	**4.3b**	**34**	**4-83**
NEIC	XII	15 20 11 15.8	4.62N	94.35E	33			¶97xii3336
EIDC	XII	15 20 11 21.0±9.56	4.7N	94.4E	64±87.8	4.0b,3.7s		
EIDC	Error ellipse is semi−major=26.5km semi−minor=17.9km azimuth=75							
ISC	**XII**	**26 11 33 54**±1.9	**2.9N**±.16	**95.4E**±.19	**33**	**3.6b**	**8**	**3-58**
EIDC	XII	26 11 33 48.5±6.15	2.7N	94.9E	0	3.6b		¶97xii5113
NEIC	XII	26 11 33 53.8	2.91N	95.45E	33			
EIDC	Error ellipse is semi−major=196.0km semi−minor=29.9km azimuth=69							
NEIC	Less reliable solution.							

(706) Northern Sumatera.

ISC	**VII**	**01 18 31 27**±1.1	**1.7N**±.12	**98.8E**±.15	**136**±7.5	**3.9b**	**17**	**1-142**
NEIC	VII	01 18 31 23.7	1.66N	98.75E	100	4.2b		¶97vii0128
EIDC	VII	01 18 31 27.6	1.6N	98.7E	123	3.7b,4.3L		
DJA	VII	01 18 31 29.7	1.8N	98.8E	128	5.0L,4.2D		
ISC	DJA magnitude values may be overestimated							
NEIC	Less reliable solution.							
ISC	**VII**	**02 05 31 39.0**±.62	**2.42N**±.094	**99.1E**±.12	**170**±6.5	**3.7b**	**14**	**0-142**
NEIC	VII	02 05 31 31.5	2.04N	98.70E	100	4.7b		¶97vii0186
DJA	VII	02 05 31 38.4	2.6N	99.1E	172	4.9L,4.3D		
EIDC	VII	02 05 31 41.4	2.4N	99.0E	179	3.4b		
NEIC	Less reliable solution.							
ISC	**VII**	**04 11 08 57**±2.2	**1.9N**±.47	**99.1E**±.56	**164**		**4**	**0-1**
DJA	VII	04 11 08 56.7	1.8N	98.9E	164	4.5L,3.4D		¶97vii0547
ISC	Poorly determined							
ISC	**VII**	**06 21 07 15.8**±.71	**0.81N**±.083	**97.36E**±.089	**33**	**4.1b**	**22**	**2-87**
DJA	VII	06 21 07 08.9	0.7N	96.8E	160	4.9L,4.2D		¶97vii0936
EIDC	VII	06 21 07 14.0	0.9N	97.6E	0	4.1b,4.4L		
NEIC	VII	06 21 07 16.4	0.95N	97.53E	33			
BJI	VII	06 21 07 16.6	0.80N	97.37E	40	4.6b		
NEIC	Less reliable solution.							
ISC	**VII**	**07 11 19 09**±1.0	**1.10N**±.042	**97.61E**±.051	**62**±8.8	**5.0b**	**174**	**2-146**
MOS	VII	07 11 19 03.5	1.0N	97.6E	19	5.3b,5.5s		¶97vii1031
HRVD	VII	07 11 19 04.2±.8	0.50N±.07	97.00E±.07	43±6.0			
NEIC	VII	07 11 19 04.8	1.07N	97.60E	25	4.9b		
KLM	VII	07 11 19 05	1.0N	97.6E	25	4.2L		
DJA	VII	07 11 19 05.3	1.0N	97.3E	97	5.6b,4.6D		
BJI	VII	07 11 19 05.8	1.17N	97.49E	26	5.2b,5.7s		
EIDC	VII	07 11 19 06.0	1.0N	97.5E	25	4.8b,5.1L		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s27,c38; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}0.73±.12; $M_{\theta\theta}$−0.78±.12; $M_{\phi\phi}$0.05±.16; $M_{r\theta}$1.24±.23; $M_{r\phi}$−1.43±.22; $M_{\theta\phi}$1.30±.16. Principal Axes: T 1.88,Plg55°,Azm80°; N 0.85, Plg19°,Azm320°; P −2.73,Plg28°,Azm220°. Best double couple: $M_0$2.3×10^{17}Nm, NP1: ϕ_S269°,δ24°,λ36°. NP2:ϕ_S145°,δ76°,λ110°.							
NEIC	Mw5.5(HRV).							
KLM	Mb4.9							

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
ISC	**VII**	**07 11 24 40.8**±.93	**1.04N**±.034	**97.63E**±.038	**56**±8.1	**5.4b,5.8s**	**344**	**2-159**	
MOS	VII	07 11 24 37.5	1.1N	97.4E	27	5.8b,5.8s			¶97vii1033
NEIC	VII	07 11 24 37.7	1.07N	97.60E	29	5.4b,5.7s			
BJI	VII	07 11 24 37.9	0.93N	97.65E	35	5.6b,6.2s			
KLM	VII	07 11 24 38	1.0N	97.6E	29	4.9L			
EIDC	VII	07 11 24 39.0	1.0N	97.6E	29	5.1b,5.6s			
HRVD	VII	07 11 24 41.8±.2	0.86N±.02	97.16E±.03	32±1.4				
NEIC	Mw5.9(GS), Me5.3(GS).								
NEIC	Mw 5.9 (HRV).								
NEIC	Radiated energy from the P−wave first−motion solution: 2.3±0.5×10^{12}Nm/12								
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S135°,δ80°,λ105°. NP2:ϕ_S258°,δ18°,λ34°. Principal axes: T Plg53°,Azm63°; P Plg33°,Azm212°. Depth from synthetics of broadband displacement seismograms.								
NEIC	Moment tensor solution: s29, scale 10^{17}Nm; M_{rr}3.38; $M_{\theta\theta}$−4.78; $M_{\phi\phi}$1.40; $M_{r\theta}$4.46; $M_{r\theta}$−3.95; $M_{\theta\phi}$0.64. Depth 22km; Principal axes: T 7.35,Plg55°,Azm62°; N 0.00,Plg21°, Azm299°; P −7.35,Plg27°,Azm197°. Best double couple: $M_0$7.3×10^{17}Nm; NP1:ϕ_S247°,δ26°, λ35°. NP2:ϕ_S125°,δ75°,λ112°.								
KLM	Mb5.4								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s54,c101; Mantle waves: s7,c11; Half duration: 2s1. Moment tensor: Scale 10^{17}Nm; M_{rr}2.88±.09; $M_{\theta\theta}$−2.00±.10; $M_{\phi\phi}$−0.88±.14; $M_{r\theta}$4.30±.25; $M_{r\theta}$−4.69±.25; $M_{\theta\phi}$2.48±.10. Principal Axes: T 6.74,Plg59°,Azm55°; N 1.00,Plg6°,Azm316°; P −7.74,Plg31°,Azm222°. Best double couple: $M_0$7.2×10^{17}Nm, NP1:ϕ_S294°,δ15°,λ68°. NP2:ϕ_S137°,δ76°,λ96°.								
ISC	**VII**	**07 11 44 24**±2.2	**0.94N**±.091	**97.5E**±.14	**54**±16	**4.6b**,4.6s	**42**	**2-144**	
BJI	VII	07 11 44 16.5	0.49N	97.34E	28	4.8b			¶97vii1036
NEIC	VII	07 11 44 20.7	0.97N	97.52E	28	4.3b			
KLM	VII	07 11 44 21	0.9N	97.5E	28	3.4L			
EIDC	VII	07 11 44 22.9	0.9N	97.6E	26	4.4b,4.9L			
KLM	Mb4.3								
ISC	**VII**	**07 12 10 35**±1.5	**1.00N**±.071	**97.57E**±.088	**61**±12	**4.7b**	**65**	**2-159**	
DJA	VII	07 12 10 27.9	1.3N	97.6E	240	4.7L,4.3D			¶97vii1040
BJI	VII	07 12 10 30.1	0.81N	97.53E	33	5.0b,4.9s			
NEIC	VII	07 12 10 30.6	0.98N	97.52E	27	4.5b			
EIDC	VII	07 12 10 32.3	0.9N	97.4E	27	4.5b,5.1L			
ISC	**VII**	**07 12 25 25**±2.5	**1.0N**±.13	**97.6E**±.16	**61**±19	**4.1b**	**21**	**2-144**	
BJI	VII	07 12 25 18.8	0.74N	97.13E	37	4.3b			¶97vii1041
NEIC	VII	07 12 25 20.4	0.99N	97.53E	25				
EIDC	VII	07 12 25 22.0	0.9N	97.4E	21	4.0b,4.4L			
NEIC	Single network solution.								
ISC	**VII**	**07 13 02 45**±1.5	**0.8N**±.11	**97.1E**±.17	**33**	**3.8b**	**11**	**2-52**	
EIDC	VII	07 13 02 38.3	0.6N	96.5E	0	3.9b,4.1L			¶97vii1044
DJA	**VII**	**07 18 21 43.9**	**1.5N**	**98.0E**	**160**	3.9D,3.6L		**1-1**	
									¶97vii1073
ISC	**VII**	**10 04 21 42**±1.3	**3.26N**±.068	**97.9E**±.11	**49**±11	**4.1b**	**29**	**0-142**	
EIDC	VII	10 04 21 36.7	3.1N	97.7E	0	4.1b			¶97vii1449
BJI	VII	10 04 21 39.7	3.22N	97.94E	27	4.9b			
KLM	VII	10 04 21 40	3.2N	97.8E	33	3.5L			
NEIC	VII	10 04 21 40.1	3.21N	97.85E	33	4.4b			
DJA	VII	10 04 21 42.3	3.6N	98.2E	80	4.8L,4.3D			
KLM	Mb4.4								
ISC	**VII**	**10 09 06 45.2**±.59	**0.91N**±.071	**97.84E**±.092	**33**	**4.2b**	**27**	**1-145**	
EIDC	VII	10 09 06 42.7	1.1N	98.0E	0	4.3b,4.4L			¶97vii1483
BJI	VII	10 09 06 44.7	0.68N	97.56E	43	4.4b			
KLM	VII	10 09 06 45	1.0N	98.0E	33	2.9L			
NEIC	VII	10 09 06 45.4	1.04N	98.00E	33	3.9b			
DJA	VII	10 09 06 46.1	0.9N	97.8E	80	5.2L,4.5D			
ISC	DJA magnitude values may be overestimated								
KLM	Mb3.9								
NEIC	Less reliable solution.								
DJA	**VII**	**10 16 14 48.1**	**4.7N**	**98.8E**	**33**	4.1L,3.6D		**2-3**	
									¶97vii1537
ISC	**VII**	**14 16 52 54**±3.3	**3.4N**±.14	**97.0E**±.35	**99**±18	**3.9b**	**9**	**1-45**	
EIDC	VII	14 16 52 31.9	2.6N	94.7E	0	4.0b,4.2L			¶97vii2179
DJA	VII	14 16 52 53.2	3.5N	97.0E	98	4.3L,3.9D			
DJA	**VII**	**15 01 50 54.6**	**4.7N**	**96.2E**	**165**	**4.6L**,4.0D		**3-45**	
									¶97vii2233
DJA	**VII**	**16 07 41 55.7**	**1.6N**	**97.9E**	**80**	3.8L,3.4D		**1-1**	
									¶97vii2404
ISC	**VII**	**16 17 02 42**±7.1	**0.1N**±.29	**97.2E**±.48	**34**±46	**3.7b**	**10**	**3-61**	
EIDC	VII	16 17 02 39.5	0.0S	97.1E	0	3.7b,4.0L			¶97vii2470
NEIC	VII	16 17 02 42.2	0.05N	97.21E	33				
DJA	VII	16 17 02 44.9	0.1N	97.6E	2	4.9L,4.5D			
NEIC	Less reliable solution.								
ISC	**VII**	**16 19 01 26**±1.4	**3.97N**±.079	**96.4E**±.12	**112**±13	**4.0b**	**26**	**2-142**	
DJA	VII	16 19 01 21.4	3.5N	95.8E	80	4.7L,4.4D			¶97vii2480
KLM	VII	16 19 01 25	3.9N	96.3E	100				
NEIC	VII	16 19 01 25.4	3.90N	96.33E	100				
BJI	VII	16 19 01 25.6	4.10N	96.34E	108	4.4b			
EIDC	VII	16 19 01 31.1	4.0N	96.3E	136	3.6b			
DJA	**VII**	**16 21 44 59.7**	**0.4N**	**97.1E**	**240**	4.4L,4.2D		**2-3**	
									¶97vii2501
DJA	**VII**	**17 08 31 00.6**	**0.2N**	**98.3E**	**3**	4.2D,4.1L		**2-3**	
									¶97vii2572
DJA	**VII**	**19 17 04 03.9**	**4.8N**	**95.3E**	**209**	4.4L,4.1D		**3-5**	
									¶97vii2919
DJA	**VII**	**20 02 02 36.7**	**3.3N**	**97.2E**	**80**	**3.7L**,3.7D		**1-2**	
									¶97vii2989
ISC	**VII**	**20 20 43 13**±1.6	**0.57N**±.099	**98.70E**±.096	**74**±12	**4.2b**	**35**	**2-146**	
EIDC	VII	20 20 43 05.6	0.5N	98.6E	0	4.2b,4.9L			¶97vii3148
KLM	VII	20 20 43 08	0.5N	98.6E	33	3.5L			
NEIC	VII	20 20 43 08.2	0.50N	98.66E	33	4.4b			
BJI	VII	20 20 43 08.8	0.30N	98.40E	46	4.7b			
DJA	VII	20 20 43 08.9	0.4N	98.3E	15	5.0L,4.1D			
ISC	DJA magnitude values may be overestimated								
KLM	Mb4.4								
DJA	**VII**	**22 10 58 26.3**	**3.5N**	**97.2E**	**119**	**4.1L**,3.4D		**1-2**	
									¶97vii3363
ISC	**VII**	**24 01 44 16**±2.0	**3.0N**±.12	**98.8E**±.16	**176**±18	**3.8b**	**18**	**3-145**	
NEIC	VII	24 01 44 16.5	3.01N	98.79E	177	4.0b			¶97vii3598
EIDC	VII	24 01 44 16.7	2.9N	98.7E	161	3.6b			
NEIC	Less reliable solution.								
DJA	**VII**	**24 17 12 52.6**	**0.7N**	**99.4E**	**141**	4.7L,3.9D		**1-2**	
									¶97vii3705
DJA	**VII**	**25 01 57 53.9**	**2.4N**	**98.9E**	**149**	4.2L,2.9D		**0-1**	
									¶97vii3754
DJA	**VII**	**25 17 55 48.7**	**1.4N**	**98.8E**	**240**	4.1D,**4.0L**		**1-2**	
									¶97vii3856
DJA	**VII**	**29 00 42 35.0**	**1.7N**	**98.1E**	**10**	3.8D,**3.7L**		**1-1**	
									¶97vii4352
DJA	**VII**	**30 17 13 11.3**	**2.0N**	**100.0E**	**178**	4.2D,3.9L		**1-2**	
									¶97vii4612
DJA	**VII**	**31 03 44 34.1**	**4.1N**	**98.7E**	**80**	3.7L,3.4D		**1-2**	
									¶97vii4671
DJA	**VII**	**31 20 48 55.3**	**1.4N**	**99.6E**	**80**	3.8L,3.5D		**1-2**	
									¶97vii4788
ISC	**VIII**	**01 06 36 35.6**±.60	**2.46N**±.082	**99.17E**±.093	**175**±5.4	**4.2b**	**31**	**0-147**	
DJA	VIII	01 06 36 36.4	2.5N	99.2E	166	5.4L,3.6D			¶97viii0036
KLM	VIII	01 06 36 38	2.5N	99.3E	200	3.7L			
EIDC	VIII	01 06 36 38.1	2.5N	99.2E	184	4.0b			
NEIC	VIII	01 06 36 38.4	2.56N	99.30E	200	4.5b			
ISC	DJA magnitude calculations may be overestimated								
KLM	Mb4.5								
NEIC	Less reliable solution.								
ISC	**VIII**	**01 10 05 14**±2.6	**1.9N**±.46	**98.9E**±.49	**132**		**4**	**0-1**	
DJA	VIII	01 10 05 14.8	2.1N	99.0E	132	4.2L,3.4D			¶97viii0046
ISC	Poorly determined								
ISC	**VIII**	**03 03 37 15**±9.5	**3.4N**±.17	**96.7E**±.85	**137**		**5**	**2-5**	
DJA	VIII	03 03 37 10.0	3.5N	96.1E	137	4.6L,4.0D			¶97viii0291
DJA	**VIII**	**04 20 57 23.4**	**2.2N**	**99.1E**	**143**	4.1L,4.0D		**0-1**	
									¶97viii0552
DJA	**VIII**	**05 11 04 28.5**	**0.6N**	**98.5E**	**33**	3.7D,3.7L		**1-2**	
									¶97viii0656
DJA	**VIII**	**07 15 02 37.7**	**2.4N**	**98.0E**	**2**	3.7D,3.6L		**1-1**	
									¶97viii0955
ISC	**VIII**	**12 07 05 56**±8.8	**0.5N**±.33	**98.1E**±.65	**64**±57	**3.8b**	**8**	**5-144**	
EIDC	VIII	12 07 05 47.9	0.2N	97.6E	0	3.8b,4.6L			¶97viii1693
NEIC	VIII	12 07 05 52.3	0.37N	97.93E	33				
NEIC	Poor solution.								
ISC	**VIII**	**13 10 16 48**±1.3	**1.4N**±.16	**99.0E**±.20	**107**±11	**4.0b**	**9**	**0-80**	
EIDC	VIII	13 10 16 36.9	1.2N	98.9E	0	4.0b,3.7s			¶97viii1889
NEIC	VIII	13 10 16 40.4	1.24N	98.94E	33	4.0b			
DJA	VIII	13 10 16 49.4	1.2N	98.4E	26	5.1L,3.6D			
ISC	DJA magnitude calculations may be overestimated								
NEIC	Poor solution.								
DJA	**VIII**	**13 16 35 33.6**	**2.4N**	**99.0E**	**150**	3.6D		**0-1**	
									¶97viii1937
ISC	**VIII**	**15 07 41 21**±2.4	**1.3N**±.25	**98.8E**±.42	**106**±16	**3.6b**	**8**	**1-42**	
EIDC	VIII	15 07 41 04.1	0.5N	97.4E	0	3.7b,4.2L			¶97viii2181
DJA	VIII	15 07 41 23.8	1.4N	98.8E	95	4.1L,3.4D			
DJA	**VIII**	**20 00 13 26.8**	**2.6N**	**99.1E**	**155**	4.0L,3.7D		**0-1**	
									¶97viii2885
ISC	**VIII**	**20 07 15 14**±1.6	**4.31N**±.030	**96.51E**±.029	**25**±11	**5.7b,5.9s**	**589**	**2-172**	
NEIC	VIII	20 07 15 15.9	4.36N	96.49E	33	5.9b,6.0s			¶97viii2926
KLM	VIII	20 07 15 16	4.3N	96.4E	33	5.6L			
BJI	VIII	20 07 15 16.0	4.38N	96.47E	30	5.5b,6.3s			
EIDC	VIII	20 07 15 16.0	4.2N	96.3E	21	5.2b,5.0L			
MOS	VIII	20 07 15 17.1	4.5N	96.6E	33	5.9b,5.8s			
HRVD	VIII	20 07 15 19.9±.1	4.50N±.01	96.66E±.01	15				
NEIC	Mw6.0(GS), Me5.8(GS). Damage.								
NEIC	Radiated energy from the P−wave first−motion solution: 1.1±0.5×10^{13}Nm/6								
NEIC	Broadband fault plane solution: P waves. NP1:ϕ_S35°,δ30°,λ60°. NP2:ϕ_S249°,δ64°,λ106°. Principal axes: T Plg67°,Azm188°; P Plg18°,Azm327°. Depth from synthetics of broadband displacement seismograms.								
NEIC	Mw 6.0 (HRV). Several hundred houses destroyed in Aceh. Felt at Banda Aceh, Medan and other parts of northern Sumatera. Felt at Alor Setar, Petaling Jaya, Pinang and Shah Alam, Malaysia. Also felt at Ban Hat Yai and Songkhla, Thailand.								
NEIC	Moment tensor solution: s18, scale 10^{17}Nm; M_{rr}0.10; $M_{\theta\theta}$−8.90; $M_{\phi\phi}$8.80; $M_{r\theta}$−0.50; $M_{r\theta}$0.90; $M_{\theta\phi}$−7.60. Depth 36km; Principal axes: T 11.7,Plg5°,Azm250°; N 0.0,Plg85°, Azm77°; P −11.8,Plg1°,Azm340°. Best double couple: $M_0$1.2×10^{18}Nm; NP1:ϕ_S25°,δ86°,λ3°. NP2:ϕ_S294°,δ87°,λ176°.								
KLM	Mb5.9								
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s51,c105; Mantle waves: s43,c69; Half duration: 2s4. Moment tensor: Scale 10^{17}Nm; M_{rr}0.35±.09; $M_{\theta\theta}$−8.60±.09; $M_{\phi\phi}$8.25±.12; $M_{r\theta}$−3.06±.38; $M_{r\theta}$0.46±.37; $M_{\theta\phi}$−6.57±.08. Principal Axes: T 10.7,Plg8°,Azm250°; N 0.8,Plg74°,Azm129°; P −11.5,Plg13°,Azm342°. Best double couple: $M_0$1.1×10^{18}Nm, NP1:ϕ_S25°,δ75°,λ−4°. NP2:ϕ_S116°,δ87°,λ−165°.								
ISC	**VIII**	**20 20 19 17**±3.9	**0.8N**±.15	**97.4E**±.22	**45**±30	**4.1b**	**18**	**2-144**	
EIDC	VIII	20 20 19 12.1	0.8N	97.4E	0	4.1b,4.3L			¶97viii3009
KLM	VIII	20 20 19 15	0.8N	97.4E	33	2.9L			
NEIC	VIII	20 20 19 15.4	0.80N	97.45E	33	3.9b			
KLM	Mb3.9								
NEIC	Less reliable solution.								
ISC	**VIII**	**21 19 52 56.2**±.67	**1.94N**±.079	**98.99E**±.087	**140**±6.1	**4.0b**	**30**	**0-87**	
DJA	VIII	21 19 52 54.9	2.0N	98.9E	157	4.9b,4.2D			¶97viii3136
NEIC	VIII	21 19 52 55.8	1.95N	99.01E	134	4.4b			
KLM	VIII	21 19 52 56	1.9N	99.0E	134	3.5L			
EIDC	VIII	21 19 52 57.5	2.1N	99.0E	132	3.6b			
KLM	Mb4.4								
ISC	**VIII**	**22 08 36 09.2**±.67	**1.11N**±.097	**100.0E**±.11	**217**±7.3	**3.9b**	**26**	**1-147**	
KLM	VIII	22 08 36 07	1.1N	100.1E	200	3.4L			¶97viii3199
NEIC	VIII	22 08 36 07.7	1.15N	100.11E	200	4.3b			
DJA	VIII	22 08 36 09.1	1.0N	99.8E	221	4.7L,4.4D			
EIDC	VIII	22 08 36 11.1	1.1N	100.1E	219	3.7b			
KLM	Mb4.3								
NEIC	Less reliable solution.								
ISC	**VIII**	**24 15 17 58**±1.2	**2.0N**±.20	**99.0E**±.41	**153**±15	**3.4b**	**8**	**0-42**	
EIDC	VIII	24 15 17 25.7	0.5N	95.5E	0	3.6b,3.7L			¶97viii3556
DJA	VIII	24 15 17 57.5	2.3N	99.3E	160	4.5L,4.0D			
DJA	**VIII**	**24 16 49 17.5**	**2.8N**	**97.6E**	**33**	3.7D,3.4L		**1-2**	
									¶97viii3563
ISC	**VIII**	**25 07 15 15**±1.2	**4.5N**±.37	**96.6E**±.33	**97**±21		**9**	**2-20**	
									¶97viii3667
ISC	**VIII**	**30 02 08 40**±12	**1.3N**±.96	**98.6E**±.43	**76**		**4**	**1-2**	
DJA	VIII	30 02 08 39.9	1.3N	98.7E	76	3.9L,3.9D			¶97viii4408
ISC	Poorly determined								
DJA	**VIII**	**30 16 49 15.7**	**5.1N**	**97.2E**	**13**	**4.8L**,4.3D		**2-4**	
									¶97viii4516
ISC	**VIII**	**31 17 20 52**±1.1	**0.9N**±.10	**97.4E**±.15	**33**	**3.9b**	**17**	**2-87**	
EIDC	VIII	31 17 20 53.9	1.1N	98.2E	0	3.9b,4.1L			¶97viii4681
BJI	VIII	31 17 20 55.7	1.20N	98.40E	33	4.4b			
NEIC	VIII	31 17 20 57.7	1.22N	98.40E	33	4.5b			
KLM	VIII	31 17 20 58	1.2N	98.4E	33	3.7L			
NEIC	Poor solution.								
KLM	Mb4.5								
DJA	**IX**	**01 06 13 55.6**	**1.9N**	**98.3E**	**89**	4.9L,2.7D			¶97ix0057
DJA	**IX**	**01 11 55 27.6**	**1.5N**	**99.4E**	**320**	5.6L			¶97ix0101
EIDC	IX	01 11 55 36.5	1.1N	98.8E	0	3.3b			
ISC	**IX**	**01 22 34 17**±1.2	**1.8N**±.22	**98.8E**±.31	**160**	**3.7b**	**10**	**0-161**	
EIDC	IX	01 22 33 59.3	1.1N	98.0E	0	4.1b,3.7L			¶97ix0174
DJA	IX	01 22 34 16.7	2.2N	99.3E	160	4.8L			

DJA IX 02 21 42 32.3 3.2N 97.0E 160 4.8L,4.6D ¶97ix0334
DJA IX 05 09 02 17.5 4.3N 96.2E 297 4.2L,4.2D ¶97ix0722
ISC IX 07 10 47 13±8.2 **1.3N**±.77 **98.7E**±.40 **95 4 1-2**
DJA IX 07 10 47 11.9 1.2N 98.7E 95 4.3L,4.2D **¶97ix1050**
ISC Poorly determined
DJA IX 08 13 45 28.2 3.8N 98.6E 240 4.7D,3.7L **¶97ix1227**
ISC IX 09 09 26 58±1.6 **2.10N**±.093 **98.9E**±.14 **11 4 0-1**
DJA IX 09 09 26 58.0 2.1N 98.9E 11 4.6D **¶97ix1349**
ISC Poorly determined
DJA IX 09 09 51 34.6 1.9N 99.1E 33 4.4D **¶97ix1353**
ISC IX 09 13 43 23±1.6 **2.09N**±.090 **98.9E**±.13 **15 4 0-1**
DJA IX 09 13 43 23.7 2.1N 98.9E 15 5.1D **¶97ix1385**
ISC Poorly determined
DJA IX 09 14 18 22.5 4.9N 96.9E 198 3.9L **¶97ix1390**
DJA IX 09 17 49 00.9 1.1N 97.1E 33 4.7L,4.4D ¶97ix1419
DJA IX 12 19 18 01.5 0.6N 98.3E 80 4.6L,4.4D **¶97ix1863**
ISC IX 13 13 32 31±1.5 **3.15N**±.061 **96.3E**±.11 **69**±13 **4.4b 43 2-160**
BJI IX 13 13 32 25.9 2.94N 96.38E 40 4.4b **¶97ix1978**
KLM IX 13 13 32 27 3.0N 96.2E 33 3.8L
NEIC IX 13 13 32 27.0 3.07N 96.22E 33 4.6b
DJA IX 13 13 32 29.9 3.2N 96.1E 33 5.3L,4.4D
EIDC IX 13 13 32 32.8 3.1N 96.2E 69 4.1b,3.9S
KLM Mb4.6
DJA IX 16 10 58 22.7 2.0N 98.9E 14 4.9D **¶97ix2375**
ISC IX 17 04 16 33.1±.81 **4.29N**±.044 **96.60E**±.056 **45**±7.8 **4.7b,4.3s 89 2-161**
BJI IX 17 04 16 25.1 3.44N 96.36E 43 4.7b,4.7S
NEIC IX 17 04 16 32.5 4.19N 96.49E 43 4.8b
KLM IX 17 04 16 33 4.1N 96.4E 43 4.1L
EIDC IX 17 04 16 40.6 4.3N 96.8E 83 4.2b
KLM Mb4.8
ISC IX 19 07 47 03±1.6 **1.1N**±.21 **99.0E**±.42 **107**±20 **3.8b 9 1-45**
EIDC IX 19 07 46 44.2 0.2N 97.1E 0 3.8b,4.3L **¶97ix2759**
DJA IX 19 07 47 02.9 1.2N 99.0E 120 5.5L,4.5D
NEIC IX 19 07 47 03.3 1.12N 99.07E 100 4.0b
NEIC Less reliable solution.
ISC IX 21 03 33 28±4.7 **1.7N**±.52 **99.5E**±.66 **185 4 1-1**
DJA IX 21 03 33 28.2 1.8N 99.4E 185 4.7L,4.6D **¶97ix3039**
ISC Poorly determined
DJA IX 21 04 17 05.9 1.3N 97.9E 80 4.8D,3.5L **¶97ix3041**
ISC IX 21 10 01 23±1.7 **2.37N**±.096 **98.9E**±.16 **17 4 0-1**
NEIC IX 21 10 01 21.4 2.39N 98.98E 33 **¶97ix3080**
DJA IX 21 10 01 23.1 2.4N 98.9E 17 4.8D
ISC Poorly determined
NEIC Poor solution.
DJA IX 23 02 55 38.5 0.0N 99.9E 160 4.5D,4.2L **¶97ix3364**
DJA IX 23 12 19 44.0 4.6N 96.2E 221 4.6D,**4.0L ¶97ix3418**
ISC IX 23 16 53 07±1.9 **4.12N**±.069 **95.1E**±.12 **45**±15 **4.4b 39 4-146**
BJI IX 23 16 53 05.1 3.99N 95.19E 38 4.6b **¶97ix3455**
NEIC IX 23 16 53 06.3 4.06N 95.01E 33 4.7b
EIDC IX 23 16 53 16.1 4.1N 95.1E 103 4.0b,4.8L
ISC IX 23 20 37 55.5±.82 **1.22N**±.040 **100.31E**±.047 **239**±7.7 **4.7b 186 2-161**
KLM IX 23 20 37 54 1.2N 100.3E 229 4.1L **¶97ix3472**
NEIC IX 23 20 37 54.3 1.25N 100.36E 229 4.8b
BJI IX 23 20 37 54.5 1.04N 100.32E 250 4.6b
EIDC IX 23 20 37 55.5 1.2N 100.5E 229 4.5b
KLM Mb4.8
DJA IX 24 01 49 36.9 1.3N 98.2E 33 4.8D,3.7L **¶97ix3509**
ISC IX 27 00 02 09±1.0 **4.0N**±.11 **97.1E**±.17 **33 4.2b 9 5-83**
EIDC IX 27 00 02 04.8 3.7N 96.7E 0 4.2b,4.1L **¶97ix4189**
NEIC IX 27 00 02 09.1 3.99N 97.09E 33 4.3b
NEIC Less reliable solution.
DJA IX 28 06 36 15.3 3.3N 97.3E 86 4.8L,4.5D **¶97ix4566**
ISC X 02 19 52 53±12 **1.8N**±.69 **98.2E**±.80 **52 4 0-1**
DJA X 02 19 52 51.7 1.8N 98.1E 52 4.9D,3.5L **¶97x0335**
ISC Poorly determined
DJA X 04 15 50 53.6 1.6N 97.7E 8 4.4D,**3.8L ¶97x0678**
EIDC X 05 03 49 05.2 0.6N 101.5E 0 3.5b ¶97x0792
ISC X 05 12 13 58±1.5 **0.07N**±.094 **97.0E**±.20 **33 3.6b 10 2-55**
EIDC X 05 12 13 54.8 0.1S 96.9E 0 3.7b,3.6L **¶97x0863**
NEIC X 05 12 13 57.7 0.08N 97.04E 33 3.4b
DJA X 05 12 14 15.8 0.6N 98.6E 33 4.4D,4.3L
NEIC Less reliable solution.
ISC X 10 06 30 02±2.6 **1.3N**±.11 **97.2E**±.17 **67**±19 **4.4b 27 1-87**
EIDC X 10 06 29 54.6 1.2N 97.0E 0 4.4b,4.5L **¶97x1707**
KLM X 10 06 30 06 1.5N 97.4E 100 3.7L
NEIC X 10 06 30 06.4 1.55N 97.45E 100 4.5b
BJI X 10 06 30 10.2 1.94N 97.56E 100 4.7b
KLM Mb4.5
NEIC Less reliable solution.
DJA X 13 09 47 43.3 4.1N 96.8E 231 4.6D,**3.7L ¶97x2197**
DJA X 17 20 21 09.6 2.4N 99.3E 160 4.6D,3.5L **¶97x3055**
ISC X 19 06 18 02±2.9 **2.1N**±.57 **99.0E**±.48 **80 4 0-1**
NEIC X 19 06 18 01.9 2.39N 99.27E 33 **¶97x3303**
DJA X 19 06 18 02.4 2.1N 99.1E 80 4.9D
ISC Poorly determined
NEIC Poor solution.
ISC X 19 08 20 36±1.4 **1.7N**±.92 **99.4E**±.61 **173** 3.8b **5 0-40**
DJA X 19 08 20 35.9 1.6N 99.3E 173 4.7D,4.7L **¶97x3313**
ISC X 20 09 01 13±1.3 **0.7N**±.42 **99.5E**±.64 **224 6 1-2**
DJA X 20 09 01 12.9 0.9N 99.8E 224 4.6D,4.5L **¶97x3469**
ISC X 21 04 43 06±1.1 **4.41N**±.058 **96.82E**±.094 **56**±10 **4.5b 35 2-141**
BJI X 21 04 43 02.0 3.62N 96.68E 68 4.3b,4.9S **¶97x3605**
KLM X 21 04 43 07 4.4N 97.0E 68 3.8L
NEIC X 21 04 43 07.1 4.45N 97.01E 68 4.6b
EIDC X 21 04 43 07.3 4.5N 97.0E 50 4.1b
KLM Mb4.6
DJA X 21 11 11 16.3 0.7N 99.0E 160 4.7L,4.6D **¶97x3648**
DJA X 22 22 32 55.4 1.9N 98.9E 128 4.7D **¶97x3891**
DJA X 25 04 14 46.9 2.2N 98.7E 160 4.9D **¶97x4271**
ISC X 25 14 37 03±1.6 **1.8N**±.87 **98.8E**±.72 **118 4 0-1**
DJA X 25 14 37 03.5 1.8N 98.8E 118 4.7D **¶97x4339**
ISC Poorly determined
ISC X 28 04 08 00±2.0 **1.8N**±.82 **98.9E**±.70 **117 4 0-1**
DJA X 28 04 08 00.1 1.8N 98.9E 117 4.9D **¶97x4699**
ISC Poorly determined
DJA X 28 19 21 49.2 1.4N 98.8E 96 4.6D,4.4L **¶97x4803**
NEIC X 29 20 33 47.2 2.18N 98.92E 10 0-1
DJA X 29 20 33 48.7 2.1N 98.9E 16 4.4D **¶97x4949**
NEIC Poor solution.
ISC X 29 21 44 38±2.9 **2.3N**±.18 **99.0E**±.17 **10 4 0-1**

NEIC X 29 21 44 40.5 2.18N 98.94E 10 **¶97x4954**
DJA X 29 21 44 42.2 2.1N 98.9E 18 4.4D
ISC Poorly determined
NEIC Poor solution.
ISC X 30 03 10 29±2.4 **1.8N**±.97 **98.8E**±.80 **124 4 0-1**
DJA X 30 03 10 29.2 1.9N 98.9E 124 4.6D **¶97x4981**
ISC Poorly determined
ISC X 31 03 41 01±2.0 **1.9N**±.20 **99.1E**±.15 **2 4 0-1**
DJA X 31 03 41 01.3 1.9N 99.1E 2 4.2D,3.6L **¶97x5123**
ISC Poorly determined
ISC X 31 05 09 24±2.1 **2.1N**±.20 **98.9E**±.17 **15 4 0-1**
DJA X 31 05 09 24.7 2.1N 98.8E 15 4.6D **¶97x5131**
ISC Poorly determined
DJA X 31 12 04 39.4 3.9N 99.8E 160 4.6D,4.1L **¶97x5174**
DJA XI 03 09 45 22.7±.40 **0.6N 98.5E 33 4.8L,4.4D 1-2**
DJA Error ellipse is semi-major=12.2km semi-minor=6.0km azimuth=49 **¶97xi0447**
DJA XI 04 00 59 08.4±1.13 **3.1N 99.4E 33** 4.7D,3.6L **1-1**
¶97xi0547

DJA Error ellipse is semi-major=44.6km semi-minor=26.1km azimuth=141
DJA XI 05 07 23 33.2±.69 **0.3N 98.8E 160** 4.6D,**3.9L 1-2**
DJA Error ellipse is semi-major=34.0km semi-minor=7.3km azimuth=53 **¶97xi0750**
DJA XI 05 14 29 16.6±.90 **1.8N 98.9E 136**±6.5 4.8D **0-1**
DJA Error ellipse is semi-major=70.4km semi-minor=12.3km azimuth=37 **¶97xi0819**
DJA XI 06 21 54 11.9±1.13 **1.2N 98.8E 95**±15.1 4.8D,3.1L **1-1**
DJA Error ellipse is semi-major=57.8km semi-minor=10.9km azimuth=36 **¶97xi1038**
DJA XI 07 15 23 33.6±.26 **1.6N 97.9E 2** 4.3D,**4.0L 1-1**
DJA Error ellipse is semi-major=10.0km semi-minor=4.4km azimuth=169 **¶97xi1142**
DJA XI 09 21 13 04.5±1.21 **4.4N 95.5E 80** 4.7L,4.4D **3-4**
DJA Error ellipse is semi-major=73.1km semi-minor=7.0km azimuth=55 **¶97xi1512**
DJA XI 11 14 04 39.1±.85 **2.6N 98.7E 15** 5.0D **0-1**
DJA Error ellipse is semi-major=18.3km semi-minor=8.1km azimuth=26 **¶97xi1801**
DJA XI 11 17 27 34.8±.89 **2.7N 98.6E 33** 5.7D **0-1**
DJA Error ellipse is semi-major=22.3km semi-minor=12.0km azimuth=22 **¶97xi1835**
DJA XI 12 00 29 07.8±1.19 **2.7N 98.6E 15** 5.1D **0-1**
DJA Error ellipse is semi-major=26.0km semi-minor=19.9km azimuth=15 **¶97xi1908**
DJA XI 12 23 25 10.4±.44 **1.5N 97.9E 15** 4.6D,3.7L **1-1**
DJA Error ellipse is semi-major=17.7km semi-minor=6.5km azimuth=163 **¶97xi2047**
DJA XI 14 08 26 54.4±.66 **2.8N 98.5E 33** 5.2D,3.5L **0-1**
¶97xi2260

DJA Error ellipse is semi-major=18.9km semi-minor=10.7km azimuth=138
DJA XI 14 11 56 12.7±.99 **2.8N 98.5E 18**±4.8 5.0D,3.1L **0-1**
¶97xi2284

DJA Error ellipse is semi-major=26.0km semi-minor=18.7km azimuth=126
DJA XI 14 15 03 30.5±.49 **2.6N 98.5E 15** 4.5D **0-1**
DJA Error ellipse is semi-major=12.9km semi-minor=7.8km azimuth=142 **¶97xi2304**
DJA XI 14 15 36 30.2±1.20 **3.7N 100.2E 148** 4.5D,4.0L **2-2**
¶97xi2310

DJA Error ellipse is semi-major=86.3km semi-minor=30.7km azimuth=140
ISC XI 14 22 28 51±2.1 **2.1N**±.20 **96.6E**±.18 **33** 3.9b **8 2-143**
EIDC XI 14 22 28 47.5 2.0N 96.3E 0 3.9b,4.0L **¶97xi2364**
NEIC XI 14 22 28 51.2 2.11N 96.62E 33
DJA XI 14 22 28 55.6±.33 2.4N 97.0E 80 5.0L,4.5D
NEIC Less reliable solution.
DJA Error ellipse is semi-major=15.4km semi-minor=5.5km azimuth=44
ISC XI 15 01 41 07±1.6 **5.8N**±.11 **94.8E**±.19 **114**±16 **4.0b 12 5-75**
EIDC XI 15 01 40 53.2 5.5N 94.1E 0 4.2b,4.4L **¶97xi2399**
NEIC XI 15 01 41 05.6 5.74N 94.65E 100 4.0b
NEIC Less reliable solution.
DJA XI 15 09 00 53.1±1.00 **2.9N 98.5E 33** 4.6D,3.7L **0-1**
DJA Error ellipse is semi-major=22.9km semi-minor=18.6km azimuth=11 **¶97xi2450**
DJA XI 15 09 59 35.4±.43 **1.7N 99.1E 15** 4.7D,3.2L **0-1**
DJA Error ellipse is semi-major=41.0km semi-minor=4.9km azimuth=31 **¶97xi2456**
DJA XI 15 10 03 19.9±.34 **1.7N 99.1E 15** 4.9D,3.2L **0-1**
DJA Error ellipse is semi-major=53.2km semi-minor=6.7km azimuth=33 **¶97xi2458**
DJA XI 15 10 13 35.5±.68 **1.6N 99.1E 15** 5.4D **0-1**
DJA Error ellipse is semi-major=50.0km semi-minor=6.8km azimuth=27 **¶97xi2459**
DJA XI 16 00 25 11.7±.65 **4.5N 97.7E 160 4.7L,4.5D 2-3**
DJA Error ellipse is semi-major=32.6km semi-minor=6.4km azimuth=43 **¶97xi2575**
DJA XI 16 12 11 46.6±1.28 **2.9N 98.6E 33** 5.0D,3.5L **1-1**
DJA Error ellipse is semi-major=35.8km semi-minor=21.8km azimuth=13 **¶97xi2646**
DJA XI 17 01 35 10.4±.87 **2.2N 98.9E 2**±.0 4.5D **0-1**
DJA Error ellipse is semi-major=8.6km semi-minor=4.0km azimuth=135 **¶97xi2724**
DJA XI 17 02 06 59.0±1.02 **2.8N 98.6E 33** 5.0D **0-1**
DJA Error ellipse is semi-major=24.2km semi-minor=18.1km azimuth=10 **¶97xi2729**
DJA XI 17 04 24 08.8±1.05 **2.8N 98.7E 15** 4.8D **0-1**
DJA Error ellipse is semi-major=21.1km semi-minor=12.0km azimuth=17 **¶97xi2736**
DJA XI 17 12 52 18.2±1.27 **2.7N 98.5E 44**±10.7 5.3D **0-1**
¶97xi2799

DJA Error ellipse is semi-major=33.6km semi-minor=12.4km azimuth=129
DJA XI 17 19 14 23.7±.86 **2.7N 98.5E 45**±8.2 4.9D **0-1**
¶97xi2849

DJA Error ellipse is semi-major=18.7km semi-minor=10.3km azimuth=123
DJA XI 17 21 02 10.3±.65 **2.5N 97.3E 15** 5.4L,4.3D **1-2**
DJA Error ellipse is semi-major=39.4km semi-minor=6.0km azimuth=35 **¶97xi2858**
DJA XI 17 21 21 32.6±.97 **2.7N 98.7E 15** 4.8D **0-1**
DJA Error ellipse is semi-major=20.1km semi-minor=10.0km azimuth=20 **¶97xi2860**
DJA XI 18 00 35 38.8±.48 **2.7N 98.5E 40** 4.7D,2.9L **0-1**
DJA Error ellipse is semi-major=14.5km semi-minor=9.3km azimuth=145 **¶97xi2883**
DJA XI 18 00 57 37.3±.63 **1.9N 99.0E 128**±4.9 4.5D **0-1**
DJA Error ellipse is semi-major=17.9km semi-minor=10.8km azimuth=41 **¶97xi2886**
DJA XI 18 06 43 36.6±.62 **2.7N 98.5E 33** 5.1D **0-1**
¶97xi2921

DJA Error ellipse is semi-major=18.1km semi-minor=10.3km azimuth=135
DJA XI 18 08 30 14.9±.72 **2.5N 98.6E 33** 5.2D **0-1**
DJA Error ellipse is semi-major=23.2km semi-minor=9.9km azimuth=32 **¶97xi2932**
DJA XI 18 10 15 34.2±.95 **2.7N 98.6E 33** 5.0D **0-1**
DJA Error ellipse is semi-major=24.9km semi-minor=13.3km azimuth=19 **¶97xi2943**
ISC XI 18 15 35 16±4.5 **2.6N**±.51 **98.7E**±.35 **80 4 0-1**
DJA XI 18 15 35 17.4±.58 2.5N 98.7E 80 4.5D **¶97xi2997**
ISC Poorly determined
DJA Error ellipse is semi-major=30.6km semi-minor=11.1km azimuth=34
DJA XI 20 01 14 11.5±.26 **2.5N 98.7E 2** 4.7D **0-1**
DJA Error ellipse is semi-major=5.2km semi-minor=4.0km azimuth=148 **¶97xi3358**
DJA XI 20 05 40 29.4±.98 **2.6N 98.5E 45**±10.4 4.9D **0-1**
¶97xi3400

DJA Error ellipse is semi-major=20.3km semi-minor=10.6km azimuth=124
ISC XI 20 12 18 51±1.6 **1.9N**±.98 **98.9E**±.70 **137 4 0-1**
DJA XI 20 12 18 51.5±1.28 1.9N 98.9E 137±10.6 5.5D **¶97xi3461**
ISC Poorly determined
DJA Error ellipse is semi-major=77.4km semi-minor=16.2km azimuth=39

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
DJA	**XI**	**20 12 59 16.6**±.52	**2.7N**	**98.5E**	**33**	4.7D,3.4L		**0-1**	
DJA		Error ellipse is semi-major=16.2km semi-minor=9.9km azimuth=134							**¶97xi3467**
DJA	**XI**	**20 17 25 08.4**±1.04	**2.7N**	**98.6E**	**49**±12.9	4.7D,3.5L		**0-1**	
DJA		Error ellipse is semi-major=42.4km semi-minor=17.2km azimuth=48							**¶97xi3506**
DJA	**XI**	**20 22 32 15.8**±.63	**2.7N**	**98.4E**	**33**	4.7D,3.5L		**0-1**	
									¶97xi3544
DJA		Error ellipse is semi-major=18.8km semi-minor=10.6km azimuth=129							
DJA	**XI**	**21 04 24 52.0**±1.02	**2.9N**	**98.6E**	**33**	4.6D,3.1L		**0-1**	
DJA		Error ellipse is semi-major=24.1km semi-minor=18.2km azimuth=10							**¶97xi3579**
DJA	**XI**	**21 17 04 11.2**±1.00	**2.8N**	**98.6E**	**15**	5.2D,3.5L		**0-1**	
DJA		Error ellipse is semi-major=20.9km semi-minor=12.1km azimuth=2							**¶97xi3689**
DJA	**XI**	**21 20 36 58.5**±1.00	**2.7N**	**98.6E**	**20**	5.5D		**0-1**	
DJA		Error ellipse is semi-major=22.1km semi-minor=11.8km azimuth=9							**¶97xi3736**
DJA	**XI**	**21 22 15 53.4**±1.13	**2.7N**	**98.7E**	**33**	5.4D		**0-1**	
DJA		Error ellipse is semi-major=29.8km semi-minor=23.3km azimuth=59							**¶97xi3751**
DJA	**XI**	**22 03 15 42.1**±1.04	**2.7N**	**98.5E**	**41**±13.5	4.8D		**0-1**	
DJA		Error ellipse is semi-major=36.6km semi-minor=21.6km azimuth=56							**¶97xi3791**
DJA	**XI**	**22 11 14 51.1**±.90	**2.7N**	**98.7E**	**4**±6.3	4.7D		**0-1**	
DJA		Error ellipse is semi-major=17.9km semi-minor=8.5km azimuth=24							**¶97xi3859**
DJA	**XI**	**22 15 56 19.8**±.99	**2.7N**	**98.7E**	**15**	5.0D		**0-1**	
DJA		Error ellipse is semi-major=20.1km semi-minor=10.7km azimuth=17							**¶97xi3905**
DJA	**XI**	**23 12 01 13.1**±.73	**2.5N**	**98.7E**	**2**	4.5D		**0-1**	
DJA		Error ellipse is semi-major=11.8km semi-minor=4.7km azimuth=32							**¶97xi4114**
DJA	**XI**	**23 17 18 01.8**±1.28	**1.9N**	**98.9E**	**133**±10.2	4.8D		**0-1**	
DJA		Error ellipse is semi-major=77.3km semi-minor=15.8km azimuth=39							**¶97xi4161**
DJA	**XI**	**24 00 06 45.0**±1.19	**1.4N**	**98.8E**	**96**±8.2	5.5D,3.2L		**0-1**	
DJA		Error ellipse is semi-major=58.4km semi-minor=12.4km azimuth=38							**¶97xi4228**
DJA	**XI**	**24 01 45 22.0**±1.01	**2.8N**	**98.7E**	**33**	5.5D,3.4L		**0-1**	
DJA		Error ellipse is semi-major=24.1km semi-minor=15.9km azimuth=16							**¶97xi4240**
DJA	**XI**	**24 10 48 01.8**±1.00	**2.7N**	**98.7E**	**15**	4.7D,3.4L		**0-1**	
DJA		Error ellipse is semi-major=20.1km semi-minor=11.2km azimuth=15							**¶97xi4302**
DJA	**XI**	**24 21 29 17.8**±1.04	**2.8N**	**98.5E**	**77**±11.6	5.1D		**0-1**	
DJA		Error ellipse is semi-major=56.5km semi-minor=20.9km azimuth=47							**¶97xi4389**
DJA	**XI**	**25 03 36 04.0**±1.04	**2.6N**	**98.5E**	**42**±10.2	4.6D		**0-1**	
DJA		Error ellipse is semi-major=33.4km semi-minor=21.1km azimuth=56							**¶97xi4439**
ISC	**XI**	**25 08 12 58**±2.0	**2.8N**±.27	**100.0E**±.51	**211**	**3.6b**		**12 4-146**	
EIDC	XI	25 08 12 58.8	2.6N	99.7E	211	3.4b			**¶97xi4470**
ISC	**XI**	**26 09 51 26**±2.4	**4.8N**±.11	**95.1E**±.25	**111**±20	**4.0b**		**18 4-127**	
DJA	XI	26 09 51 24.4±.88	4.7N	94.8E	33	5.2L,4.6D			**¶97xi4667**
NEIC	XI	26 09 51 24.5	4.79N	94.95E	100				
EIDC	XI	26 09 51 30.8	5.1N	95.1E	134	3.7b			
DJA		Error ellipse is semi-major=27.8km semi-minor=7.5km azimuth=70							
NEIC		Less reliable solution.							
DJA	**XI**	**26 15 45 37.0**±1.20	**2.1N**	**98.4E**	**15**	5.7D		**0-0**	
DJA		Error ellipse is semi-major=72.3km semi-minor=10.2km azimuth=69							**¶97xi4715**
ISC	**XI**	**27 08 56 01**±3.9	**1.8N**±.22	**99.3E**±.30	**2**			**4 0-1**	
DJA	XI	27 08 56 00.6±1.78	1.8N	99.3E	2	4.7L,4.2D			**¶97xi4835**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=45.7km semi-minor=4.2km azimuth=49							
DJA	**XI**	**28 10 46 26.4**±.91	**2.6N**	**98.6E**	**15**	5.1D		**0-1**	
DJA		Error ellipse is semi-major=22.9km semi-minor=10.9km azimuth=21							**¶97xi5066**
DJA	**XI**	**28 11 29 00.5**±.44	**1.0N**	**101.5E**	**15**	5.5L,4.4D		**2-3**	
DJA		Error ellipse is semi-major=18.0km semi-minor=6.2km azimuth=44							**¶97xi5074**
DJA	**XI**	**28 17 58 31.7**±5.01	**0.6N**	**99.7E**	**440**±31.2	**4.7L**,4.6D		**1-2**	
									¶97xi5123
DJA		Error ellipse is semi-major=239.8km semi-minor=83.0km azimuth=30							
DJA	**XI**	**30 18 56 34.1**±.94	**0.0N**	**98.4E**	**20**±12.4	4.8L,4.3D		**2-2**	
DJA		Error ellipse is semi-major=18.6km semi-minor=6.0km azimuth=47							**¶97xi5448**
DJA	**XII**	**01 06 00 22.7**±.45	**2.2N**	**98.9E**	**2**	4.4D		**0-1**	
DJA		Error ellipse is semi-major=10.9km semi-minor=3.7km azimuth=38							**¶97xii0042**
DJA	**XII**	**02 02 30 05.6**±.88	**0.8N**	**97.3E**	**33**	4.5D,**3.9L**		**2-2**	
DJA		Error ellipse is semi-major=19.0km semi-minor=17.8km azimuth=47							**¶97xii0172**
ISC	**XII**	**02 14 04 20**±1.1	**0.7N**±.12	**98.6E**±.18	**113**	**3.6b**		**10 1-80**	
NEIC	XII	02 14 04 12.3	0.02N	98.26E	33				**¶97xii0263**
DJA	XII	02 14 04 14.3±.91	0.2N	98.6E	113±15.1	5.0L,4.5D			
EIDC	XII	02 14 04 19.3	0.1N	98.3E	82±158.2	3.4b,3.9L			
NEIC		Less reliable solution.							
DJA		Error ellipse is semi-major=22.7km semi-minor=11.6km azimuth=5							
EIDC		Origin time error = 16.92Error ellipse is semi-major=55.0km semi-minor=22.9km azimuth=57LO CONF Depth							
ISC	**XII**	**03 00 59 47**±1.2	**5.94N**±.061	**94.84E**±.078	**88**±12	**4.7b**		**56 5-160**	
BJI	XII	03 00 59 45.7	5.84N	94.75E	82	4.9b			**¶97xii0344**
NDI	XII	03 00 59 46.5	5.94N	94.82E	80	4.8b			
NEIC	XII	03 00 59 46.5	5.94N	94.82E	80	4.8b			
EIDC	XII	03 00 59 48.3±.52	5.9N	94.9E	86±4.0	4.3b			
EIDC		Error ellipse is semi-major=19.6km semi-minor=8.8km azimuth=51							
DJA	**XII**	**03 08 41 16.4**±.92	**0.3N**	**98.5E**	**33**	**4.5L**,4.4D		**2-2**	
									¶97xii0389
DJA		Error ellipse is semi-major=22.3km semi-minor=13.7km azimuth=169							
ISC	**XII**	**06 00 30 37.3**±.94	**2.3N**±.21	**98.9E**±.31	**161**±11	**4.1b**		**10 0-87**	
EIDC	XII	06 00 30 12.6±4.09	1.1N	99.3E	0	4.3b,4.3L			**¶97xii1175**
DJA	XII	06 00 30 39.0±1.60	3.1N	99.4E	33	5.3L,4.4D			
EIDC		Error ellipse is semi-major=134.4km semi-minor=62.1km azimuth=114							
DJA		Error ellipse is semi-major=56.7km semi-minor=23.1km azimuth=116							
ISC	**XII**	**06 09 58 53**±4.6	**1.9N**±.18	**99.4E**±.30	**2**			**4 0-1**	
DJA	XII	06 09 58 55.7±.36	1.7N	99.2E	2±.0	4.8L,4.4D			**¶97xii1347**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=64.8km semi-minor=5.6km azimuth=41							
DJA	**XII**	**06 17 28 33.7**±1.20	**2.6N**	**98.4E**	**25**±9.5	5.5D,3.2L		**0-1**	
DJA		Error ellipse is semi-major=28.4km semi-minor=22.8km azimuth=63							**¶97xii1478**
ISC	**XII**	**09 03 42 43**±8.8	**2.5N**±.37	**98.0E**±.46	**2**			**4 0-2**	
DJA	XII	09 03 42 45.8±.41	2.4N	98.2E	2	3.8L			**¶97xii2094**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=7.0km semi-minor=3.8km azimuth=141							
ISC	**XII**	**09 19 03 06**±6.7	**0.4N**±.22	**98.6E**±.48	**55**±57	**4.1b**,4.4S		**10 18-60**	
EIDC	XII	09 19 03 01.5±2.39	0.4N	98.7E	0	4.1b,4.5L			**¶97xii2219**
BJI	XII	09 19 03 04.2	0.30N	98.60E	33	4.5b			
NEIC	XII	09 19 03 04.2	0.37N	98.58E	33	3.5b			
EIDC		Error ellipse is semi-major=81.7km semi-minor=18.1km azimuth=65							
NEIC		Poor solution.							
DJA	**XII**	**11 21 01 51.8**±.47	**2.3N**	**98.8E**	**33**	4.7D		**0-0**	
DJA		Error ellipse is semi-major=17.5km semi-minor=7.4km azimuth=41							**¶97xii2639**
ISC	**XII**	**12 09 57 09**±2.3	**4.0N**±.17	**95.2E**±.28	**33**	**3.7b**		**8 4-57**	
EIDC	XII	12 09 57 16.8	4.3N	97.2E	0	3.7b,4.3L			**¶97xii2726**
EIDC		Origin time error = 10.02Error ellipse is semi-major=304.8km semi-minor=44.9km azimuth=77							
DJA	**XII**	**12 11 53 47.8**±1.01	**1.5N**	**99.2E**	**195**±7.6	4.7L,4.7D		**0-1**	
									¶97xii2744
DJA		Error ellipse is semi-major=109.5km semi-minor=18.8km azimuth=37							
DJA	**XII**	**12 22 13 47.0**±1.08	**2.7N**	**98.8E**	**15**	5.2D		**0-1**	
									¶97xii2828
DJA		Error ellipse is semi-major=24.7km semi-minor=21.6km azimuth=173							
DJA	**XII**	**14 12 56 48.6**±.47	**1.9N**	**99.5E**	**160**	5.1L,4.8D		**0-1**	
DJA		Error ellipse is semi-major=31.2km semi-minor=19.5km azimuth=47							**¶97xii3150**
ISC	**XII**	**16 17 48 39.0**±.67	**1.32N**±.089	**97.65E**±.079	**2**	**4.2b**		**15 1-79**	
EIDC	XII	16 17 48 38.6±4.80	2.3N	98.1E	0	4.1b			**¶97xii3482**
DJA	XII	16 17 48 41.3±.73	1.4N	97.5E	2±3.6	5.5L,4.1D			
NEIC	XII	16 17 48 43.3	1.43N	97.70E	33	4.2b			
EIDC		Error ellipse is semi-major=359.0km semi-minor=28.5km azimuth=24							
DJA		Error ellipse is semi-major=15.6km semi-minor=6.2km azimuth=25							
NEIC		Less reliable solution.							
ISC	**XII**	**16 20 36 36**±3.6	**1.6N**±.44	**99.1E**±.23	**15**			**4 0-1**	
DJA	XII	16 20 36 37.2±.23	1.7N	99.1E	15	4.5D,4.2L			**¶97xii3498**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=56.2km semi-minor=4.2km azimuth=34							
ISC	**XII**	**16 20 52 22**±3.4	**1.7N**±.49	**99.1E**±.26	**15**			**4 0-1**	
DJA	XII	16 20 52 23.7±.36	1.7N	99.1E	15	4.6D,3.4L			**¶97xii3500**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=57.5km semi-minor=5.6km azimuth=33							
ISC	**XII**	**16 21 02 50**±3.7	**2.0N**±.18	**99.3E**±.23	**4**			**4 0-1**	
DJA	XII	16 21 02 52.6±1.04	1.8N	99.2E	4±15.5	4.3D			**¶97xii3502**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=69.7km semi-minor=5.1km azimuth=36							
ISC	**XII**	**16 21 13 41**±3.4	**1.7N**±.50	**99.1E**±.27	**15**			**4 0-1**	
DJA	XII	16 21 13 42.2±.38	1.7N	99.1E	15	4.8D			**¶97xii3504**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=57.9km semi-minor=5.6km azimuth=32							
ISC	**XII**	**16 21 14 43**±3.6	**1.6N**±.47	**99.1E**±.24	**15**			**4 0-1**	
DJA	XII	16 21 14 44.5±.33	1.7N	99.1E	15	4.7D,3.6L			**¶97xii3506**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=59.3km semi-minor=5.6km azimuth=33							
ISC	**XII**	**16 21 15 44**±3.6	**2.0N**±.19	**99.3E**±.22	**3**			**4 0-1**	
DJA	XII	16 21 15 46.9±1.28	1.8N	99.2E	3±22.3	5.1D			**¶97xii3507**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=142.9km semi-minor=5.5km azimuth=36							
ISC	**XII**	**16 22 41 01**±3.4	**1.7N**±.49	**99.1E**±.26	**15**			**4 0-1**	
DJA	XII	16 22 41 02.7±.29	1.7N	99.1E	15	4.4D			**¶97xii3516**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=52.1km semi-minor=5.1km azimuth=33							
ISC	**XII**	**16 22 48 41**±3.6	**2.0N**±.19	**99.3E**±.23	**2**			**4 0-1**	
DJA	XII	16 22 48 44.3±.45	1.8N	99.2E	2±.0	3.7L			**¶97xii3519**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=38.2km semi-minor=5.0km azimuth=41							
DJA	**XII**	**16 23 20 18.0**±.70	**1.6N**	**99.2E**	**33**	4.8D,3.9L		**0-1**	
DJA		Error ellipse is semi-major=74.1km semi-minor=9.7km azimuth=27							**¶97xii3521**
ISC	**XII**	**17 16 44 25**±1.1	**4.49N**±.073	**98.7E**±.13	**59**±14	**4.1b**		**22 2-56**	
EIDC	XII	17 16 44 19.9±3.39	4.3N	98.7E	0	4.0b,3.4L			**¶97xii3634**
NEIC	XII	17 16 44 22.9	4.37N	98.79E	33				
KLM	XII	17 16 44 23	4.3N	98.7E	33				
EIDC		Error ellipse is semi-major=148.7km semi-minor=19.9km azimuth=64							
NEIC		Less reliable solution.							
DJA	**XII**	**17 23 46 31.6**±1.81	**2.5N**	**100.0E**	**101**±24.9	4.9D,4.7L		**1-2**	
DJA		Error ellipse is semi-major=40.0km semi-minor=17.5km azimuth=56							**¶97xii3679**
DJA	**XII**	**19 07 39 48.9**±1.00	**1.4N**	**97.8E**	**33**	**5.3L**,4.3D		**1-2**	
DJA		Error ellipse is semi-major=22.9km semi-minor=13.2km azimuth=49							**¶97xii3915**
DJA	**XII**	**20 06 38 49.1**±1.13	**1.9N**	**101.2E**	**80**	**4.4L**		**2-3**	
									¶97xii4090
DJA		Error ellipse is semi-major=43.5km semi-minor=26.3km azimuth=169							
ISC	**XII**	**20 07 40 25**±2.5	**5.6N**±.13	**94.0E**±.23	**68**±24	**4.0b**		**21 5-141**	
NEIC	XII	20 07 40 29.4	5.85N	94.25E	100				**¶97xii4097**
EIDC	XII	20 07 40 34.8	6.0N	94.4E	130±98.2	3.7b,3.8S			
NEIC		Less reliable solution.							
EIDC		Origin time error = 11.45Error ellipse is semi-major=77.0km semi-minor=20.5km azimuth=59							
DJA	**XII**	**22 03 30 41.5**±.99	**1.9N**	**98.2E**	**71**±13.5	5.0D		**1-1**	
DJA		Error ellipse is semi-major=16.8km semi-minor=8.3km azimuth=167							**¶97xii4346**
DJA	**XII**	**25 07 17 10.4**±.44	**2.4N**	**98.8E**	**20**±3.7	4.6D		**0-1**	
NEIC	XII	25 07 17 08.9	2.43N	98.81E	33				**¶97xii4883**
DJA		Error ellipse is semi-major=17.1km semi-minor=4.7km azimuth=48							
NEIC		Poor solution.							
DJA	**XII**	**25 23 27 15.4**±1.04	**2.8N**	**99.1E**	**148**±7.2	4.2L,4.1D		**1-1**	
DJA		Error ellipse is semi-major=23.8km semi-minor=9.8km azimuth=43							**¶97xii5005**
DJA	**XII**	**26 11 02 40.0**±1.26	**1.3N**	**100.3E**	**175**±28.9	4.0D,4.0L		**1-3**	
									¶97xii5108
DJA		Error ellipse is semi-major=250.3km semi-minor=22.4km azimuth=46							
ISC	**XII**	**27 01 54 22**±1.9	**2.3N**±.39	**100.0E**±.20	**150**	3.5b		**5 1-40**	
									¶97xii5226
DJA	**XII**	**27 11 46 41.6**±.92	**2.8N**	**99.2E**	**151**±7.1	**4.1L**,4.1D		**1-1**	
DJA		Error ellipse is semi-major=27.8km semi-minor=12.2km azimuth=43							**¶97xii5285**
DJA	**XII**	**27 12 04 05.0**±1.00	**3.0N**	**99.3E**	**160**	4.0D,**3.9L**		**1-1**	
DJA		Error ellipse is semi-major=36.4km semi-minor=18.7km azimuth=50							**¶97xii5286**
DJA	**XII**	**27 17 41 06.1**±.79	**2.6N**	**99.5E**	**2**	4.1D,3.6L		**1-1**	
DJA		Error ellipse is semi-major=20.4km semi-minor=9.4km azimuth=56							**¶97xii5330**
DJA	**XII**	**29 23 49 24.2**±1.22	**4.1N**	**98.7E**	**33**	3.9L,3.9D		**1-2**	
									¶97xii5658
DJA		Error ellipse is semi-major=36.6km semi-minor=25.3km azimuth=136							
ISC	**XII**	**30 04 00 04**±11	**1.4N**±.77	**98.2E**±.59	**15**			**4 1-1**	
DJA	XII	30 04 00 04.9±.35	1.4N	98.2E	15	4.6L,4.3D			**¶97xii5678**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=8.6km semi-minor=4.7km azimuth=7							
DJA	**XII**	**30 05 45 24.4**±1.12	**1.1N**	**100.2E**	**214**±9.2	4.6L,4.5D		**1-3**	
DJA		Error ellipse is semi-major=32.7km semi-minor=17.8km azimuth=51							**¶97xii5688**
ISC	**XII**	**31 02 05 28**±1.4	**2.0N**±.29	**98.9E**±.33	**15**			**4 0-1**	
DJA	XII	31 02 05 28.9±.68	1.9N	98.8E	15	4.0D,3.4L			**¶97xii5822**
ISC		Poorly determined							
DJA		Error ellipse is semi-major=51.8km semi-minor=4.2km azimuth=41							

(707) Malay Peninsula.

DJA	**VII**	**25 03 00 53.4**	**4.1N**	**100.7E**	**80**	4.0D,3.9L		**3-3**	
									¶97vii3761
DJA	**XI**	**02 10 56 52.7**±1.13	**5.0N**	**101.3E**	**80**	4.5D,3.6L		**4-24**	
									¶97xi0242
DJA		Error ellipse is semi-major=139.9km semi-minor=25.9km azimuth=137							
DJA	**XI**	**27 03 59 01.3**±1.37	**3.7N**	**101.5E**	**15**	4.6L,4.3D		**3-3**	
									¶97xi4787
DJA		Error ellipse is semi-major=70.7km semi-minor=24.2km azimuth=145							
DJA	**XII**	**21 03 04 25.5**±1.22	**2.0N**	**101.2E**	**80**	**4.6L**,4.5D		**2-3**	
DJA		Error ellipse is semi-major=49.2km semi-minor=27.3km azimuth=15							**¶97xii4203**

SEISMIC REGION 47. BALUCHISTAN.

(709) Afghanistan.

ISC VII 08 19 26 57±6.4 **31.3N**±.16 **66.6E**±.16 **23**±45 **3.7b**,3.2s **14 6-84**
EIDC VII 08 19 26 55.7 31.3N 66.6E 0 3.8b,3.3s **¶97vii1225**
BJI VII 08 19 26 57.3 31.60N 66.59E 17 4.4b
NEIC VII 08 19 26 58.5 31.29N 66.63E 33
NEIC Single network solution.
ISC VII 19 16 10 41±1.3 **34.38N**±.098 **70.6E**±.12 **60**±16 **3.8b 24 1-83**
NEIC VII 19 16 10 37.5 34.43N 70.68E 33 3.7b **¶97vii2913**
EIDC VII 19 16 10 38.1 34.4N 70.4E 18 3.7b
BJI VII 19 16 10 39.8 34.10N 70.64E 37 4.2L
NEIC Less reliable solution.
ISC VIII 25 14 13 22±1.4 **31.1N**±.22 **67.8E**±.13 **33** **3.7b** **11 5-87**
EIDC VIII 25 14 13 19.1 30.9N 67.6E 0 3.7b,4.2L **¶97viii3699**
NEIC VIII 25 14 13 22.4 31.06N 67.77E 33 3.8b
NEIC Poor solution.
BJI IX 07 22 16 06.3 30.65N 65.95E 17 5.1b ¶97ix1133
EIDC IX 28 05 19 49.1 34.8N 70.7E 0 3.9b ¶97ix4549
ISC IX 28 14 15 01±1.3 **33.79N**±.082 **69.7E**±.12 **48**±14 **3.7b 24 2-81**
BJI IX 28 14 15 00.3 34.11N 69.43E 49 4.3L **¶97ix4664**
NEIC IX 28 14 15 04.6 33.66N 69.60E 82 3.5b
EIDC IX 28 14 15 06.7 33.6N 69.6E 85 3.5b
NEIC Less reliable solution.
EIDC Multiple, mixed az
ISC XII 11 05 30 35±1.1 **33.33N**±.073 **69.96E**±.073 **44**±12 **4.0b**,3.3s **52 1-148**
BJI XII 11 05 30 32.9 33.47N 70.27E 4 4.7L,4.1b **¶97xii2498**
NDI XII 11 05 30 34.3 33.39N 69.85E 33 4.3b
NEIC XII 11 05 30 34.3 33.39N 69.86E 33 4.3b
EIDC XII 11 05 30 35.0±.67 33.6N 69.9E 18±3.6 3.9b,3.6s
EIDC Error ellipse is semi−major=17.8km semi−minor=11.9km azimuth=12
ISC XII 28 14 50 37±1.5 **34.8N**±.15 **70.6E**±.17 **222**±19 **3.1b 16 3-83**
NDI XII 28 14 50 36.2 35.00N 70.46E 200 3.2b **¶97xii5468**
NEIC XII 28 14 50 36.2 35.00N 70.31E 200 3.2b
EIDC XII 28 14 50 38.5±2.82 35.0N 70.4E 209±49.0 3.0b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=57.0km semi−minor=28.0km azimuth=121

(710) Pakistan.

ISC VII 02 12 01 58.8±.60 **34.41N**±.090 **73.7E**±.14 **33** **3.8b** **13 1-83**
NEIC VII 02 12 01 58.7 34.42N 73.72E 33 **¶97vii0235**
EIDC VII 02 12 01 58.9 34.4N 73.6E 18 3.8b
BJI VII 02 12 01 59.3 34.27N 73.74E 33 3.5L
NEIC Single network solution.
ISC VII 06 18 23 42±1.2 **27.8N**±.18 **67.3E**±.16 **33** **3.5b**,3.2s **9 9-84**
EIDC VII 06 18 23 38.6 27.7N 67.1E 0 3.6b,3.2s **¶97vii0918**
NEIC VII 06 18 23 42.7 27.96N 67.34E 33
BJI VII 06 18 23 46.9 27.72N 68.14E 33
NEIC Less reliable solution.
ISC VII 10 11 28 09.7±.90 **30.6N**±.14 **67.7E**±.11 **33** **3.7b** **15 4-87**
NEIC VII 10 11 28 09.8 30.40N 67.36E 33 4.0b **¶97vii1505**
EIDC VII 10 11 28 37.4 30.6N 67.2E 271 3.2b
NEIC Poor solution.
ISC VII 13 01 42 58±3.6 **29.59N**±.091 **68.38E**±.068 **25**±25 **4.2b,3.7s** **58 3-88**
EIDC VII 13 01 42 55.7 29.5N 68.4E 0 4.2b,3.7s **¶97vii1906**
BJI VII 13 01 42 58.2 29.79N 68.37E 27 4.8b,4.5s
NEIC VII 13 01 42 58.8 29.62N 68.43E 33 4.4b
ISC VII 13 01 54 39±1.3 **29.57N**±.070 **68.38E**±.056 **33**±11 **4.4b,3.8s** **67 3-121**
EIDC VII 13 01 54 35.3 29.4N 68.3E 0 4.3b,3.7s **¶97vii1909**
NEIC VII 13 01 54 38.8 29.55N 68.40E 33 4.5b
BJI VII 13 01 54 38.9 29.69N 68.58E 23 4.9b,4.6s
ISC VII 13 15 25 44±3.4 **29.7N**±.17 **68.3E**±.14 **46**±28 **3.7b** **15 6-88**
NEIC VII 13 15 25 42.1 29.60N 68.32E 33 4.2b **¶97vii1991**
EIDC VII 13 15 25 46.9 29.7N 68.3E 54 3.5b,4.2L
BJI VII 13 15 25 58.5 30.49N 69.58E 33 4.6b
NEIC Less reliable solution.
ISC VII 18 18 59 43±1.0 **29.62N**±.064 **68.37E**±.034 **38**±8.8 **4.8b,4.0s** **146 1-145**
NEIC VII 18 18 59 41.9 29.59N 68.40E 33 5.0b **¶97vii2776**
BJI VII 18 18 59 42.6 29.80N 68.51E 26 4.9b,4.6s
EIDC VII 18 18 59 43.4 29.6N 68.4E 29 4.4b,4.6L
EIDC VII 21 17 24 49.3 32.9N 72.4E 0 3.8b 23-48 ¶97vii3267
ISC VII 29 09 43 36±2.0 **32.85N**±.066 **73.79E**±.093 **7**±13 **4.0b**,3.1s **23 1-91**
BJI VII 29 09 43 34.6 32.97N 73.55E 12 4.2L,4.2b **¶97vii4416**
EIDC VII 29 09 43 35.6 32.9N 73.9E 0 4.1b,3.1s
NEIC VII 29 09 43 35.8 32.83N 73.68E 10 4.8b
NEIC Less reliable solution.
ISC VIII 15 02 16 38±1.9 **29.7N**±.11 **68.37E**±.085 **52**±15 **4.0b** **31 3-82**
EIDC VIII 15 02 16 32.3 29.5N 68.3E 0 4.1b,4.3L **¶97viii2146**
NEIC VIII 15 02 16 35.7 29.65N 68.38E 33 4.2b
BJI VIII 15 02 16 36.0 29.67N 68.47E 27 4.9b,4.3s
ISC VIII 16 14 12 18±2.5 **29.9N**±.17 **68.3E**±.15 **61**±20 **3.8b** **17 2-88**
EIDC VIII 16 14 12 14.1 29.6N 68.3E 16 3.8b,4.4L **¶97viii2381**
BJI VIII 16 14 12 14.6 29.80N 68.20E 33 4.6b
NEIC VIII 16 14 12 14.6 29.85N 68.24E 33 4.0b
NEIC Less reliable solution.
ISC VIII 19 02 29 05±9.1 **35.8N**±.31 **71.6E**±.56 **60**±64 **3.5b** **8 10-75**
EIDC VIII 19 02 29 06.8 35.9N 71.5E 54 3.4b,4.5L **¶97viii2748**
ISC VIII 24 13 15 22±1.5 **30.12N**±.040 **67.96E**±.025 **33**±11 **5.2b,5.3s** **335 1-145**
EIDC VIII 24 13 15 19.1 30.0N 68.0E 0 5.1b,5.5s **¶97viii3539**
MOS VIII 24 13 15 21.6 30.0N 68.1E 33 5.6b,5.5s
NEIC VIII 24 13 15 21.8 30.08N 68.00E 33 5.3b,5.4s
BJI VIII 24 13 15 22.1 30.35N 68.05E 24 5.4b,5.6s
HRVD VIII 24 13 15 27.4±.2 29.71N±.02 67.99E±.03 23
NEIC Mw5.6(HRV). Felt.
NEIC Felt at Harnai, Quetta, Pishin, Sibi and Ziarat.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s40,c70; Half duration: 1s6. Moment tensor: Scale 10^{17}Nm; M_{rr}2.46±.05; $M_{\theta\theta}$−2.92±.08; $M_{\phi\phi}$0.46±.08; $M_{r\theta}$1.90±.13; $M_{r\phi}$−0.33±.11; $M_{\theta\phi}$−0.12±.05. Principal Axes: T 3.11,Plg71°,Azm24°; N 0.41, Plg7°,Azm272°; P −3.52,Plg18°,Azm180°. Best double couple: $M_0$3.3×10^{17}Nm, NP1: ϕ_S258°,δ28°,λ74°. NP2:ϕ_S96°,δ63°,λ98°.
ISC VIII 24 15 12 01±3.1 **30.10N**±.092 **67.84E**±.057 **24**±22 **4.3b,4.1s** **64 3-120**
EIDC VIII 24 15 11 58.6 30.1N 67.9E 0 4.2b,4.4s **¶97viii3555**
NEIC VIII 24 15 12 00.8 29.98N 67.87E 33 4.5b
BJI VIII 24 15 12 00.9 30.18N 67.93E 26 4.4b,4.7s
ISC VIII 24 16 51 09±1.5 **30.16N**±.091 **67.80E**±.075 **39**±14 **4.1b,3.8s** **42 3-88**
EIDC VIII 24 16 51 05.3 29.9N 67.9E 0 4.0b,3.8s **¶97viii3564**
NEIC VIII 24 16 51 08.6 30.15N 67.79E 33 4.2b
BJI VIII 24 16 51 10.3 30.29N 68.29E 20 4.7b,4.2s
NEIC Less reliable solution.
ISC VIII 25 07 14 58±1.6 **30.3N**±.21 **67.7E**±.25 **33** **3.9b** **8 6-88**
EIDC VIII 25 07 14 53.4 30.0N 67.7E 0 4.0b,3.9L **¶97viii3666**
BJI VIII 28 01 15 41.2 33.76N 73.26E 15 4.3L ¶97viii4068
ISC IX 05 15 41 52±1.1 **33.96N**±.060 **73.08E**±.068 **24**±9.0 **4.0b** **28 0-81**
EIDC IX 05 15 41 50.0 33.7N 72.7E 0 4.1b **¶97ix0763**
NEIC IX 05 15 41 51.1 33.83N 72.82E 17 4.0b
BJI IX 05 15 41 52.6 33.68N 73.29E 8 4.1L,4.2b
BJI Ms4.3
ISC IX 07 10 15 26.2±.90 **30.07N**±.048 **67.80E**±.024 **43**±7.7 **5.4b,5.2s** **417 3-145**
EIDC IX 07 10 15 24.6 30.0N 67.8E 20 4.9b,5.5L **¶97ix1047**
NEIC IX 07 10 15 24.9 30.04N 67.80E 33 5.5b,5.3s
MOS IX 07 10 15 25.2 30.1N 67.9E 33 5.7b,5.1s
HRVD IX 07 10 15 28.1±.3 29.50N±.03 67.92E±.04 18
BJI IX 07 10 15 29.9 30.35N 68.40E 33 5.4b,5.4s
NEIC Mw5.4(GS), Me5.3(GS).
NEIC Mw 5.4 (HRV).
NEIC Radiated energy from the P−wave first−motion solution: 1.8±0.5×10^{12}Nm/11
NEIC Broadband fault plane solution: P waves. NP1:ϕ_S165°,δ45°,λ60°. NP2:ϕ_S24°,δ52°,λ117°. Principal axes: T Plg69°,Azm356°; P Plg4°,Azm96°. Depth from synthetics of broadband displacement seismograms.
NEIC Moment tensor solution: s19, scale 10^{17}Nm; M_{rr}0.28; $M_{\theta\theta}$−0.32; $M_{\phi\phi}$0.03; $M_{r\theta}$1.40; $M_{r\phi}$−0.14; $M_{\theta\phi}$0.17. Depth 9km; Principal axes: T 1.41,Plg51°,Azm0°; N 0.06,Plg5°, Azm97°; P −1.48,Plg38°,Azm191°. Best double couple: $M_0$1.4×10^{17}Nm; NP1:ϕ_S315°,δ8°, λ128°. NP2:ϕ_S96°,δ84°,λ85°.
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s34,c57; Mantle waves: s5,c5; Half duration: 1s2. Moment tensor: Scale 10^{17}Nm; M_{rr}1.18±.04; $M_{\theta\theta}$−1.28±.05; $M_{\phi\phi}$0.10±.05; $M_{r\theta}$0.79±.15; $M_{r\phi}$−0.05±.12; $M_{\theta\phi}$0.22±.04. Principal Axes: T 1.42,Plg73°,Azm357°; N 0.13,Plg3°,Azm97°; P −1.54,Plg16°,Azm188°. Best double couple: $M_0$1.5×10^{17}Nm, NP1:ϕ_S283°,δ29°,λ96°. NP2:ϕ_S96°,δ61°,λ87°.
ISC IX 07 10 41 05±1.9 **29.97N**±.099 **67.7E**±.10 **42**±17 **4.0b**,3.9s **32 3-88**
EIDC IX 07 10 41 00.8 30.0N 67.8E 0 3.9b,3.9s **¶97ix1048**
BJI IX 07 10 41 03.6 29.90N 67.70E 33 5.4b,4.6s
NEIC IX 07 10 41 03.6 29.88N 67.70E 33 4.3b
NEIC Less reliable solution.
ISC IX 07 12 58 09±1.3 **30.1N**±.19 **67.7E**±.14 **33** **3.8b** **11 6-88**
EIDC IX 07 12 58 05.2 30.0N 67.7E 0 3.8b,4.4L **¶97ix1067**
BJI IX 07 12 58 08.9 30.20N 67.80E 33 5.5b,4.7s
NEIC IX 07 12 58 08.9 30.22N 67.76E 33
EIDC Multiple, mixed az
NEIC Poor solution.
ISC IX 07 14 17 31±1.5 **29.8N**±.21 **68.0E**±.23 **33** **3.6b** **7 6-88**
NEIC IX 07 14 17 29.5 29.85N 67.75E 33 **¶97ix1081**
EIDC IX 07 14 17 46.3 30.6N 68.8E 145 3.2b
NEIC Poor solution.
ISC IX 07 15 56 25±1.1 **29.9N**±.16 **67.8E**±.12 **33** **3.9b** **18 3-88**
NEIC IX 07 15 56 25.2 29.92N 67.79E 33 4.0b **¶97ix1100**
EIDC IX 07 15 56 27.6 29.9N 67.8E 39 3.7b,3.5s
BJI IX 07 15 56 30.5 30.20N 68.52E 33 5.0b,4.3s
NEIC Less reliable solution.
ISC IX 07 19 58 13±3.8 **30.8N**±.27 **67.7E**±.22 **65**±29 **3.6b** **12 2-87**
NEIC IX 07 19 58 08.3 30.59N 67.56E 33 4.0b **¶97ix1121**
EIDC IX 07 19 58 13.5 30.7N 67.6E 60 3.5b,4.2L
NEIC Poor solution.
ISC IX 07 20 06 48±3.9 **30.2N**±.24 **67.8E**±.22 **65**±30 **3.7b** **14 3-88**
EIDC IX 07 20 06 40.1 29.9N 67.6E 0 3.9b,4.4L **¶97ix1122**
NEIC IX 07 20 06 43.8 30.01N 67.70E 33 4.1b
NEIC Less reliable solution.
ISC IX 22 12 59 49.7±.84 **32.15N**±.090 **72.40E**±.098 **33** **7 0-5 ¶97ix3281**
EIDC IX 23 05 02 30.4 35.2N 71.0E 0 4.0b ¶97ix3377
ISC X 03 13 14 00±1.4 **29.95N**±.059 **67.91E**±.050 **22**±11 **4.2b**,3.9s **51 1-88**
EIDC X 03 13 13 58.0 30.0N 67.9E 0 4.2b **¶97x0469**
NEIC X 03 13 13 58.5 29.96N 68.00E 17 4.4b
BJI X 03 13 14 00.2 30.09N 68.38E 5 4.6b,4.5s
NEIC Felt at Harnai.
BJI X 11 21 48 07.9 35.72N 71.18E 87 ¶97x1944
EIDC X 19 11 10 04.1 35.8N 72.4E 365 3.2b ¶97x3335
EIDC LO CONF Depth, LO CONF Location
EIDC X 25 12 20 34.3 34.3N 73.4E 0 3.6b ¶97x4324
BJI XI 05 03 44 00.6 30.97N 70.11E 5 4.9b,4.4s ¶97xi0726
ISC XI 08 10 57 32±5.6 **29.2N**±.14 **68.5E**±.13 **21**±37 **4.1b** **26 3-82**
EIDC XI 08 10 57 30.6 29.2N 68.6E 0 4.1b,4.2L **¶97xi1266**
NDI XI 08 10 57 34 29.2N 68.6E 33 4.5b
NEIC XI 08 10 57 34.0 29.28N 68.61E 33 4.5b
BJI XI 08 10 57 37.3 29.53N 69.39E 5 4.5b
ISC XI 09 17 17 35±1.1 **33.9N**±.20 **71.8E**±.27 **33** **4.0b** **11 22-82**
EIDC XI 09 17 17 31.9 33.8N 71.8E 0 4.0b **¶97xi1480**
NEIC XI 09 17 17 34.5 33.79N 71.83E 33 4.3b
NEIC Poor solution.
ISC XI 25 01 31 59±1.0 **35.97N**±.086 **71.0E**±.11 **100**±16 **3.8b** **20 3-82**
BJI XI 25 01 31 57.1 36.00N 71.10E 100 **¶97xi4422**
NDI XI 25 01 31 59.1 36.0N 71.1E 100
NEIC XI 25 01 32 00.3 35.86N 71.00E 115
EIDC XI 25 01 32 01.6 36.0N 71.1E 108 3.6b
NEIC Poor solution.
ISC XII 11 03 51 38±3.7 **33.3N**±.19 **70.5E**±.33 **100** **12 1-11 ¶97xii2484**
ISC XII 11 04 21 53±1.0 **35.6N**±.16 **71.4E**±.11 **194**±15 **3.3b** **28 2-82**
NEIC XII 11 04 21 50.2 35.62N 70.46E 134 3.3b **¶97xii2489**
NDI XII 11 04 21 51.5 35.55N 70.25E 150 3.0b
EIDC XII 11 04 21 52.3±2.32 35.7N 70.5E 138±27.1 3.4b
NEIC Less reliable solution.
EIDC Error ellipse is semi−major=29.6km semi−minor=23.5km azimuth=34
ISC XII 12 12 23 51.9±.79 **29.24N**±.081 **68.52E**±.074 **33** **3.9b** **26 3-89**
EIDC XII 12 12 23 49.1±3.56 29.4N 68.4E 0 3.9b,4.2L **¶97xii2748**
NEIC XII 12 12 23 52.6 29.42N 68.38E 33 4.0b
BJI XII 12 12 23 59.7 30.27N 68.96E 5 4.7b,4.4s
EIDC Error ellipse is semi−major=79.2km semi−minor=36.4km azimuth=168
NEIC Poor solution.
ISC XII 13 03 41 35.5±.23 **29.61N**±.042 **68.38E**±.027 **33** **4.9b,4.7s** **193 1-145**
BJI XII 13 03 41 33.7 29.90N 68.52E 5 5.2b,5.1s **¶97xii2874**
NEIC XII 13 03 41 35.6 29.63N 68.34E 33 4.9b,4.3s
MOS XII 13 03 41 37.1 29.9N 68.5E 33 5.3b,5.0s
HRVD XII 13 03 41 38.5±1.4 29.10N±.11 68.26E±.11 37±7.9
EIDC XII 13 03 41 38.7±3.57 29.5N 68.3E 48±32.9 4.4b,4.6s
NEIC Mw5.1(HRV).
HRVD Centroid moment tensor solution. Data used: GSN; LP body waves: s20,c24; Half

Agency		Origin Time		ϕ	λ	h	Mag	n	Δ-Rng
	mo	d	h m s	°	°	km			°

duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}3.23±.51; $M_{\theta\theta}$−3.63±.53; $M_{\phi\phi}$0.40±.94; $M_{r\theta}$2.09±1.09; $M_{r\phi}$−2.10±1.07; $M_{\theta\phi}$−0.11±.40. Principal Axes: T 4.78,Plg61°,Azm62°; N −0.51,Plg22°,Azm284°; P −4.27,Plg17°,Azm187°. Best double couple: $M_0$4.5×10^{16}Nm, NP1:ϕ_S246°,δ34°,λ47°. NP2:ϕ_S114°,δ66°,λ114°.

EIDC Error ellipse is semi−major=19.7km semi−minor=13.3km azimuth=20

ISC	**XII**	**17**	**20 13 33**±5.5	**29.7N**±.25	**68.5E**±.30	**51**±43	**3.6b**	**9**	**6-88**
EIDC	XII	17	20 13 27.2±1.65	29.5N	68.4E	0	3.7b,3.7L		¶97xii3657
NEIC	XII	17	20 13 31.0	29.67N	68.40E	33			
BJI	XII	17	20 13 33.0	29.70N	68.40E	33			

EIDC Error ellipse is semi−major=39.7km semi−minor=33.1km azimuth=51
NEIC Poor solution.

ISC	**XII**	**17**	**20 19 39**±1.4	**30.0N**±.28	**69.3E**±.15	**100**	**3.6b**	**16**	**5-88**
EIDC	XII	17	20 19 15.1±1.73	28.1N	64.9E	0	3.8b,4.3L		¶97xii3658

EIDC Error ellipse is semi−major=59.9km semi−minor=30.0km azimuth=64

ISC	**XII**	**20**	**05 53 31**±6.4	**35.0N**±.45	**71.1E**±.35	**33**		**16**	**1-15**
									¶97xii4086
ISC	**XII**	**21**	**15 56 43.4**±.63	**35.05N**±.061	**71.61E**±.067	**149**±8.6	**3.8b**	**49**	**1-83**
NDI	XII	21	15 56 35.9	36.42N	72.18E	33	4.6L		¶97xii4272
BJI	XII	21	15 56 42.0	35.10N	71.30E	128			
NEIC	XII	21	15 56 42.0	35.14N	71.34E	128	4.0b		
EIDC	XII	21	15 56 43.8±.95	35.1N	71.4E	129±8.1	3.7b		

NEIC Less reliable solution.
EIDC Error ellipse is semi−major=21.2km semi−minor=17.2km azimuth=43

ISC	**XII**	**27**	**17 30 27**±1.4	**29.5N**±.16	**68.5E**±.13	**33**	**3.6b**	**21**	**6-88**
EIDC	XII	27	17 30 23.6±1.72	29.6N	68.0E	0	3.7b,4.0L		¶97xii5326
NDI	XII	27	17 30 27.6	29.71N	68.18E	33			
NEIC	XII	27	17 30 27.6	29.72N	68.18E	33			

EIDC Error ellipse is semi−major=45.4km semi−minor=25.9km azimuth=52
NEIC Single network solution.

ISC	**XII**	**29**	**03 33 32.3**±.57	**29.76N**±.062	**69.53E**±.063	**33**	**3.9b**	**33**	**2-88**
BJI	XII	29	03 33 22.8	28.99N	69.66E	33	4.5b		¶97xii5540
EIDC	XII	29	03 33 29.7±.68	29.9N	69.2E	0	4.0b,3.9L		
NDI	XII	29	03 33 32.5	29.95N	69.31E	33	4.1b		
NEIC	XII	29	03 33 32.5	29.96N	69.32E	33	4.1b		

EIDC Error ellipse is semi−major=18.9km semi−minor=16.7km azimuth=22
NEIC Less reliable solution.

SEISMIC REGION 48.
HINDU KUSH AND PAMIR.

(714) South-Eastern Uzbekistan.

ISC	**VIII**	**29**	**02 16 33**±1.9	**40.23N**±.049	**66.70E**±.052	**20**±15	**4.4b,3.5s**	**66**	**6-91**
EIDC	VIII	29	02 16 30.6	40.1N	66.7E	0	4.4b,3.5s		¶97viii4220
BJI	VIII	29	02 16 33.7	40.27N	67.02E	11	4.9L,4.3b		
NEIC	VIII	29	02 16 33.9	40.21N	66.76E	33	4.5b		
MOS	VIII	29	02 16 34.2	40.3N	66.7E	33	4.7b		

(715) Tadzhikistan.

ISC	**VII**	**12**	**01 18 36**±1.4	**40.13N**±.077	**70.3E**±.11	**57**±15	**3.9b**	**22**	**4-97**
BJI	VII	12	01 18 37.0	40.03N	70.42E	63	4.0L		¶97vii1756
NEIC	VII	12	01 18 37.2	40.15N	70.35E	65	3.8b		
EIDC	VII	12	01 18 39.4	40.1N	70.3E	64	3.5b		
ISC	**VII**	**18**	**13 18 31**±2.2	**37.4N**±.31	**73.9E**±.15	**33**	**3.6b**	**8**	**3-80**
BJI	VII	18	13 18 22.3	37.41N	73.03E	25	3.9L,3.8b		¶97vii2747
EIDC	VII	18	13 18 24.6	37.0N	74.3E	0	3.6b,3.9L		
ISC	**VIII**	**17**	**17 15 29.7**±.58	**38.06N**±.090	**72.74E**±.092	**50**	**3.7b**	**17**	**3-84**
NEIC	VIII	17	17 15 29.0	38.49N	73.38E	33			¶97viii2564
BJI	VIII	17	17 15 30.1	38.11N	72.91E	50	4.1L		
EIDC	VIII	17	17 15 35.3	38.2N	73.0E	76	3.4b,3.4s		

NEIC Less reliable solution.

ISC	**VIII**	**19**	**12 26 04**±4.5	**37.3N**±.53	**72.2E**±.65	**160**±52	**3.5b**	**6**	**4-84**
EIDC	VIII	19	12 26 07.5	36.9N	71.8E	183	3.2b		¶97viii2808
ISC	**IX**	**16**	**13 17 35**±1.4	**38.44N**±.081	**68.97E**±.097	**58**±15	**3.9b**	**27**	**6-84**
NEIC	IX	16	13 17 32.1	38.37N	68.97E	33			¶97ix2390
MOS	IX	16	13 17 33.4	38.3N	69.2E	33	4.4b		
EIDC	IX	16	13 17 36.1	38.3N	68.9E	54	3.6b,4.4L		
BJI	IX	16	13 17 39.8	37.66N	69.79E	33	4.4L,4.7b		

NEIC Less reliable solution.
BJI Ms4.6

ISC	**IX**	**17**	**03 21 13**±3.2	**38.0N**±.28	**72.3E**±.52	**150**		**7**	**3-6**
BJI	IX	17	03 21 14.8	37.75N	72.93E	181			¶97ix2461
BJI	**IX**	**18**	**18 33 33.8**	**38.69N**	**72.74E**	**128**	**5.0b**		**¶97ix2698**
ISC	**X**	**05**	**21 03 42.7**±.67	**37.51N**±.057	**72.16E**±.083	**197**±9.0	**3.9b**	**38**	**4-80**
NEIC	X	05	21 03 43.3	37.51N	72.28E	205	4.5b		¶97x0935
BJI	X	05	21 03 43.5	37.61N	72.29E	195	4.5b		
EIDC	X	05	21 03 44.4	37.4N	72.2E	200	3.7b		
ISC	**X**	**19**	**15 11 39**±1.0	**38.1N**±.15	**72.9E**±.15	**33**	**3.7b**	**9**	**3-59**
BJI	X	19	15 11 34.4	37.76N	72.91E	30	4.4L		¶97x3362
NEIC	X	19	15 11 48.8	38.16N	72.81E	130			
EIDC	X	19	15 11 49.6	38.1N	72.8E	118	3.5b		

NEIC Single network solution.

BJI	**X**	**25**	**18 48 56.6**	**37.36N**	**72.87E**	**19**	**3.9L,4.1b**		**¶97x4357**
ISC	**X**	**30**	**21 06 34**±2.5	**37.2N**±.25	**72.6E**±.44	**100**	**3.9b**	**9**	**21-73**
EIDC	X	30	21 06 22.3	37.0N	72.9E	0	4.0b		¶97x5088
NEIC	X	30	21 06 33.7	37.15N	72.67E	100			

NEIC Poor solution.

ISC	**XI**	**06**	**09 00 37.7**±.58	**38.75N**±.066	**69.6E**±.15	**33**	**3.8b**	**16**	**5-74**
EIDC	XI	06	09 00 42.3	39.8N	69.7E	0	4.0b,4.4L		¶97xi0951
NEIC	XI	06	09 00 44.6	39.84N	69.85E	33			

NEIC Single network solution.

ISC	**XI**	**11**	**02 20 45**±1.8	**39.1N**±.21	**71.4E**±.16	**68**±22	**3.4b**	**7**	**4-85**
BJI	XI	11	02 20 39.5	38.90N	71.63E	25	3.6L		¶97xi1713
EIDC	XI	11	02 20 43.7	38.7N	73.2E	0	3.7b,4.5L		
ISC	**XI**	**21**	**02 03 05**±2.6	**39.6N**±.12	**71.7E**±.26	**55**±31	**3.5b**	**7**	**6-83**
NDI	XI	21	02 03 03.7	39.6N	71.5E	33			¶97xi3566
NEIC	XI	21	02 03 03.7	39.62N	71.52E	33			
EIDC	XI	21	02 03 07.1	39.5N	71.8E	62	3.3b,4.0L		
NDI	**XII**	**05**	**05 59 11.4**	**37.88N**	**73.69E**	**33**	**4.0L**		**¶97xii0792**
BJI	**XII**	**17**	**05 14 30.6**	**37.54N**	**72.16E**	**5**	**3.7L**		**¶97xii3555**
NDI	**XII**	**21**	**04 56 47**	**37.69N**	**72.48E**	**33**	**4.3L**		**¶97xii4215**
ISC	**XII**	**23**	**01 34 12**±3.0	**39.9N**±.10	**70.8E**±.22	**40**±34	**3.5b**,2.9s	**23**	**4-78**
BJI	XII	23	01 34 09.2	38.98N	70.33E	10	3.6L		¶97xii4513
NEIC	XII	23	01 34 09.5	39.87N	70.90E	24	3.8b		
EIDC	XII	23	01 34 12.0±3.04	39.9N	70.9E	24±4.3	3.5b,3.9L		

NEIC Poor solution.
EIDC Error ellipse is semi−major=64.9km semi−minor=26.1km azimuth=174

ISC	**XII**	**25**	**23 31 16.6**±.83	**37.68N**±.067	**72.94E**±.076	**167**±12	**3.6b**	**44**	**3-81**
BJI	XII	25	23 31 13.8	37.80N	72.56E	116			¶97xii5006
NDI	XII	25	23 31 16	37.85N	72.47E	138	3.9b		
NEIC	XII	25	23 31 16.0	37.85N	72.48E	138	3.9b		
EIDC	XII	25	23 31 17.4±3.26	37.9N	72.6E	135±33.4	3.5b		

NEIC Less reliable solution.
EIDC Error ellipse is semi−major=28.0km semi−minor=17.5km azimuth=61

(716) Kirgiziya.

ISC	**IX**	**21**	**08 24 19.9**±.98	**42.82N**±.045	**74.84E**±.074	**22**±8.7	**3.9b,3.8s**	**36**	**0-95**
BJI	IX	21	08 24 18.0	42.96N	75.09E	5	4.4L,4.5b		¶97ix3066
NEIC	IX	21	08 24 20.2	42.74N	74.53E	33	4.4b		
EIDC	IX	21	08 24 20.2	42.5N	74.2E	23	3.7b,3.9s		
MOS	IX	21	08 24 20.6	42.8N	74.7E	33	4.5b,4.1s		

BJI Ms4.4
NEIC Felt I=IV MM, Less reliable solution.
MOS Felt I=IV−III MSK at Yuryevka, I=III at Bishkek.

ISC	**IX**	**23**	**15 05 59.2**±.50	**40.93N**±.050	**72.6E**±.12	**33**	**3.9b**	**18**	**3-86**
BJI	IX	23	15 05 51.8	41.17N	72.71E	10	4.1L		¶97ix3439
NEIC	IX	23	15 05 59.1	40.93N	72.70E	33			
EIDC	IX	23	15 06 04.3	40.8N	72.7E	71	3.7b,4.5L		

NEIC Single network solution.

ISC	**IX**	**25**	**05 01 58**±1.7	**40.1N**±.12	**72.8E**±.20	**81**±19	**3.6b**	**11**	**2-85**
BJI	IX	25	05 01 46.3	38.99N	72.08E	10	4.0L		¶97ix3679
NEIC	IX	25	05 02 04.1	39.66N	71.91E	144			
EIDC	IX	25	05 02 06.5	39.6N	71.8E	156	3.3b		

NEIC Poor solution.

ISC	**IX**	**29**	**11 55 34**±1.1	**41.9N**±.16	**74.5E**±.23	**33**	**3.8b**	**8**	**3-85**
BJI	IX	29	11 55 20.8	38.43N	71.09E	25	4.1L		¶97ix4941
EIDC	IX	29	11 55 30.0	41.6N	74.2E	0	3.8b,4.1L		
ISC	**X**	**09**	**07 50 37**±1.4	**40.61N**±.081	**72.1E**±.13	**68**±15	**3.9b**	**17**	**3-86**
EIDC	X	09	07 50 28.6	40.2N	71.9E	0	4.0b,4.7L		¶97x1550
NEIC	X	09	07 50 39.8	40.57N	71.91E	100	4.0b		
BJI	X	09	07 50 49.5	40.54N	73.55E	102	4.0b		

NEIC Less reliable solution.

ISC	**X**	**30**	**07 47 18**±1.6	**40.99N**±.085	**72.4E**±.16	**50**±19	**3.7b**	**15**	**3-86**
BJI	X	30	07 47 10.3	41.05N	71.74E	26	4.5L,4.3s		¶97x5013
NEIC	X	30	07 47 16.7	41.05N	72.38E	33			
EIDC	X	30	07 47 20.8	41.0N	72.6E	59	3.5b,4.5L		

NEIC Less reliable solution.

BJI	**XI**	**03**	**02 22 55.9**	**41.02N**	**75.03E**	**10**	**4.0L,3.8b**		**¶97xi0378**
ISC	**XII**	**01**	**20 54 15**±1.5	**41.64N**±.034	**75.72E**±.056	**7**±9.8	**4.3b,4.0s**	**71**	**1-96**
EIDC	XII	01	20 54 14.9±.61	41.6N	75.7E	0	4.2b,3.8s		¶97xii0148
MOS	XII	01	20 54 18.1	41.6N	75.8E	33	4.8b,4.3s		
NDI	XII	01	20 54 18.2	41.63N	75.80E	33	4.4b		
NEIC	XII	01	20 54 18.2	41.65N	75.80E	33	4.4b,4.3s		
BJI	XII	01	20 54 20.1	41.90N	75.86E	35	4.7L,4.5b		

EIDC Error ellipse is semi−major=16.8km semi−minor=13.9km azimuth=37
BJI Ms4.4

(717) Afghanistan-USSR border region.

ISC	**VII**	**03**	**12 59 30.5**±.61	**36.38N**±.064	**71.2E**±.10	**244**±7.9	**3.8b**	**30**	**3-150**
BJI	VII	03	12 59 30.1	36.45N	71.18E	237			¶97vii0411
NEIC	VII	03	12 59 30.1	36.37N	71.19E	242	4.1b		
EIDC	VII	03	12 59 31.2	36.3N	71.1E	239	3.5b		

NEIC Less reliable solution.

ISC	**VII**	**06**	**21 15 12.3**±.87	**36.31N**±.088	**71.1E**±.16	**167**±12	**3.8b**	**19**	**3-84**
BJI	VII	06	21 15 10.1	36.30N	71.09E	161			¶97vii0938
NEIC	VII	06	21 15 11.1	36.38N	71.16E	150	4.0b		
EIDC	VII	06	21 15 13.6	36.2N	71.0E	170	3.6b		

NEIC Less reliable solution.

ISC	**VII**	**09**	**22 25 32.6**±.61	**36.38N**±.064	**71.10E**±.078	**223**±8.0	**3.8b**	**49**	**3-84**
BJI	VII	09	22 25 31.8	36.15N	71.24E	205	4.1b		¶97vii1405
NEIC	VII	09	22 25 32.8	36.36N	71.09E	228	3.8b		
EIDC	VII	09	22 25 33.9	36.2N	71.0E	223	3.6b		
ISC	**VII**	**13**	**22 19 03**±2.6	**37.1N**±.29	**66.9E**±.48	**33**	**3.4b**	**5**	**35-75**
EIDC	VII	13	22 18 59.3	37.0N	67.1E	0	3.5b		¶97vii2028
ISC	**VII**	**14**	**13 59 13**±1.0	**38.82N**±.054	**70.54E**±.073	**65**±11	**4.0b**	**41**	**4-86**
BJI	VII	14	13 59 07.4	38.78N	70.22E	32	4.2b		¶97vii2144
NEIC	VII	14	13 59 10.5	38.96N	70.54E	33	4.3b		
MOS	VII	14	13 59 10.7	38.8N	70.4E	33	4.4b		
EIDC	VII	14	13 59 16.9	38.7N	70.4E	80	3.8b,3.4s		
ISC	**VII**	**28**	**16 28 43**±1.5	**36.4N**±.10	**71.6E**±.19	**134**±16	**3.3b**	**11**	**3-84**
BJI	VII	28	16 28 43.4	36.18N	71.72E	143			¶97vii4301
NEIC	VII	28	16 28 44.6	36.33N	71.62E	150	3.9b		
EIDC	VII	28	16 28 46.1	36.2N	71.5E	148	3.2b		

NEIC Less reliable solution.

ISC	**VIII**	**01**	**17 23 33**±2.6	**36.2N**±.29	**71.1E**±.38	**33**	**3.8b**	**7**	**20-57**
EIDC	VIII	01	17 23 34.1	36.5N	70.3E	0	3.8b,4.4L		¶97viii0093
ISC	**VIII**	**05**	**02 05 22**±1.0	**36.1N**±.27	**71.1E**±.30	**33**	**3.8b**	**5**	**45-84**
EIDC	VIII	05	02 05 18.6	36.2N	71.3E	0	3.8b		¶97viii0598
ISC	**VIII**	**13**	**04 03 38.7**±.86	**36.25N**±.082	**71.0E**±.11	**135**±12	**3.7b**	**17**	**3-84**
BJI	VIII	13	04 03 36.2	36.04N	71.15E	164			¶97viii1848
NEIC	VIII	13	04 03 40.1	36.15N	71.20E	150			
EIDC	VIII	13	04 03 41.7	36.0N	71.0E	150	3.6b		

NEIC Single network solution.

ISC	**VIII**	**14**	**21 05 21.2**±.67	**36.66N**±.098	**71.0E**±.13	**243**±12	**3.5b**	**16**	**3-84**
NEIC	VIII	14	21 05 20.9	36.58N	70.93E	245			¶97viii2110
EIDC	VIII	14	21 05 22.2	36.4N	70.8E	235	3.2b		
BJI	VIII	14	21 05 25.9	37.00N	71.00E	245			

NEIC Single network solution.

ISC	**VIII**	**27**	**07 32 35**±1.5	**36.1N**±.16	**71.2E**±.34	**150**	3.7b	**6**	**2-45**
									¶97viii3953
ISC	**VIII**	**29**	**00 17 34**±4.7	**36.8N**±.63	**72.7E**±.42	**33**	**3.9b**	**7**	**11-81**
EIDC	VIII	29	00 17 58.5	36.9N	72.0E	222	3.3b		¶97viii4207
ISC	**IX**	**01**	**06 19 11**±1.0	**36.5N**±.13	**71.0E**±.22	**208**±13	**3.6b**	**18**	**3-84**
NEIC	IX	01	06 19 10.8	36.62N	71.12E	200	4.0b		¶97ix0059
EIDC	IX	01	06 19 12.1	36.4N	70.8E	207	3.4b		

NEIC Less reliable solution.

ISC	**IX**	**11**	**02 05 18**±10	**38.6N**±.13	**70.1E**±.18	**15**±65	**4.0b**	**13**	**6-79**
NEIC	IX	11	02 05 20.8	38.53N	70.09E	45			¶97ix1612
EIDC	IX	11	02 05 22.7	38.5N	70.1E	43	3.8b,4.2L		

NEIC Single network solution.

ISC	**IX**	**12**	**18 54 33.5**±.49	**38.87N**±.051	**71.0E**±.14	**33**	**3.7b**	**20**	**4-83**
NEIC	IX	12	18 54 33.5	38.96N	71.17E	33			¶97ix1860
BJI	IX	12	18 54 33.6	39.33N	71.09E	14	3.7L,3.9b		
EIDC	IX	12	18 54 37.8	38.8N	71.1E	60	3.5b,4.1L		

NEIC Single network solution.

ISC	**IX**	**12 20 28 30.4**±.72	**36.29N**±.086	**71.3E**±.25	**150**	**3.6b**	**12**	**3-82**	
EIDC	IX	12 20 28 14.2	36.1N	71.4E	0	3.8b			¶97ix1872
EIDC	**IX**	**17 21 25 02.1**	**36.7N**	**71.3E**	**0**	**4.0b**,4.2L			¶97ix2559
BJI	IX	17 21 25 12.1	35.37N	77.39E	25	3.6L,4.1b			
ISC	**IX**	**20 11 49 15**±2.4	**37.3N**±.11	**67.9E**±.12	**45**±22	**3.9b,3.5s**	**27**	**7-81**	
NEIC	IX	20 11 49 11.8	36.92N	68.02E	33				¶97ix2939
EIDC	IX	20 11 49 15.0	36.8N	67.9E	49	3.7b,3.4s			
MOS	IX	20 11 49 15.2	37.4N	68.3E	33	4.5b			
BJI	IX	20 11 49 16.3	37.01N	68.49E	20	4.7L,4.1b			
NEIC	Poor solution.								
BJI	Ms4.9								
ISC	**IX**	**23 20 03 38**±1.6	**36.6N**±.19	**71.3E**±.29	**228**±23	**3.5b**	**8**	**3-84**	
EIDC	IX	23 20 03 39.5	36.4N	71.0E	236	3.3b			¶97ix3469
ISC	**IX**	**30 22 05 25**±1.1	**36.4N**±.16	**71.4E**±.31	**250**	**3.3b**	**6**	**3-44**	
EIDC	IX	30 22 05 27.0	36.0N	71.2E	272	3.1b			¶97ix5319
ISC	**X**	**07 06 43 20**±1.6	**36.7N**±.17	**71.1E**±.41	**33**	3.9b	**7**	**3-44**	
									¶97x1195
ISC	**X**	**07 22 24 08**±1.0	**38.0N**±.12	**71.2E**±.22	**33**	**3.8b**	**7**	**5-43**	
EIDC	X	07 22 24 11.0	37.8N	71.1E	51	3.6b			¶97x1313
ISC	**X**	**10 05 12 30.4**±.98	**37.0N**±.14	**72.9E**±.43	**33**	**3.5b**	**6**	**3-81**	
EIDC	X	10 05 12 27.0	37.0N	73.0E	0	3.6b,4.5L			¶97x1693
ISC	**X**	**10 23 52 21**±1.6	**36.5N**±.14	**71.0E**±.18	**214**±18	**3.6b**	**11**	**3-84**	
NEIC	X	10 23 52 19.6	36.58N	71.03E	200				¶97x1815
EIDC	X	10 23 52 21.6	36.5N	71.1E	208	3.5b			
NEIC	Less reliable solution.								
ISC	**X**	**15 12 42 04.2**±.81	**38.69N**±.039	**70.69E**±.063	**59**±8.7	**4.3b**,3.6s	**57**	**4-87**	
MOS	X	15 12 42 00.1	38.8N	70.2E	33	4.7b			¶97x2637
NEIC	X	15 12 42 01.7	38.76N	70.67E	33	4.8b			
BJI	X	15 12 42 02.0	38.53N	70.88E	25	4.6L,4.5b			
EIDC	X	15 12 42 07.5	38.7N	70.6E	68	3.9b,4.8L			
ISC	**X**	**15 16 43 27.1**±.73	**36.56N**±.083	**71.1E**±.14	**221**±11	**3.5b**	**20**	**3-84**	
NEIC	X	15 16 43 25.9	36.73N	71.27E	200	4.2b			¶97x2678
EIDC	X	15 16 43 28.4	36.4N	71.0E	221	3.3b			
BJI	X	15 16 43 29.3	36.70N	71.26E	210				
NEIC	Less reliable solution.								
ISC	**X**	**16 14 13 44.3**±.91	**36.29N**±.072	**71.0E**±.11	**117**±11	**3.9b**	**24**	**3-84**	
BJI	X	16 14 13 39.6	36.08N	70.89E	101				¶97x2850
NEIC	X	16 14 13 43.0	36.27N	70.81E	100	4.5b			
EIDC	X	16 14 13 46.2	36.4N	71.1E	120	3.6b			
NEIC	Less reliable solution.								
ISC	**X**	**18 18 03 06**±1.0	**36.97N**±.080	**71.4E**±.16	**129**±13	**3.5b**	**16**	**3-84**	
BJI	X	18 18 03 08.4	36.90N	71.50E	150	4.1b			¶97x3208
NEIC	X	18 18 03 08.4	36.94N	71.48E	150	3.7b			
EIDC	X	18 18 03 10.4	36.8N	71.3E	159	3.2b			
NEIC	Less reliable solution.								
ISC	**X**	**18 20 57 03.1**±.84	**36.56N**±.097	**71.4E**±.18	**235**±14	**3.8b**	**14**	**3-58**	
BJI	X	18 20 57 00.6	36.40N	71.90E	300	3.8b			¶97x3233
EIDC	X	18 20 57 04.1	36.4N	71.0E	223	3.5b			
NEIC	X	18 20 57 05.6	36.35N	71.87E	300				
NEIC	Poor solution.								
ISC	**X**	**19 01 21 30**±1.2	**37.96N**±.057	**69.67E**±.074	**44**±14	**4.0b,3.5s**	**33**	**5-149**	
BJI	X	19 01 21 28.3	37.80N	69.38E	52	4.7L,4.2b			¶97x3268
NEIC	X	19 01 21 28.6	38.00N	69.64E	33	4.7b			
MOS	X	19 01 21 30.0	37.9N	69.6E	42	4.9b			
EIDC	X	19 01 21 33.3	38.1N	69.8E	52	3.8b,4.4L			
BJI	Ms4.2								
ISC	**X**	**22 06 00 05.8**±.96	**36.46N**±.074	**71.6E**±.11	**121**±13	**4.0b**	**25**	**3-58**	
BJI	X	22 05 59 57.5	36.03N	71.37E	33	4.4L,3.9b			¶97x3756
EIDC	X	22 06 00 07.3	36.6N	71.6E	122	3.5b			
NEIC	X	22 06 00 08.2	36.41N	71.62E	150	4.1b			
NEIC	Less reliable solution.								
ISC	**X**	**23 17 44 10**±1.9	**36.2N**±.14	**71.5E**±.24	**125**±24	**3.7b**	**10**	**3-82**	
BJI	X	23 17 44 10.9	36.00N	71.60E	100	3.8b			¶97x4039
NEIC	X	23 17 44 10.9	35.94N	71.37E	153	3.9b			
EIDC	X	23 17 44 11.4	36.2N	71.8E	137	3.4b			
NEIC	Poor solution.								
ISC	**X**	**25 11 49 05**±2.1	**36.5N**±.18	**71.1E**±.37	**212**±21	**3.6b**	**6**	**3-84**	
NEIC	X	25 11 49 05.0	36.53N	71.14E	211				¶97x4318
EIDC	X	25 11 49 05.9	36.5N	71.1E	207	3.4b			
NEIC	Poor solution.								
EIDC	**X**	**29 06 07 12.4**	**36.5N**	**71.2E**	**214**	**3.3b**			¶97x4863
ISC	**X**	**30 20 48 27.2**±.73	**36.37N**±.049	**72.03E**±.072	**108**±8.1	**4.3b**	**54**	**3-151**	
BJI	X	30 20 48 23.8	36.32N	71.90E	114				¶97x5087
NEIC	X	30 20 48 26.3	36.39N	71.96E	100	4.7b			
EIDC	X	30 20 48 27.2	36.4N	72.0E	95	4.0b			
MOS	X	30 20 48 28.1	36.3N	72.0E	119	4.5b			
ISC	**XI**	**06 08 09 17.7**±.41	**37.74N**±.050	**69.75E**±.074	**33**	**4.1b**	**39**	**4-86**	
EIDC	XI	06 08 09 14.5	37.8N	69.5E	0	4.2b,4.8L			¶97xi0946
BJI	XI	06 08 09 16.3	38.00N	69.73E	23	5.0L,4.6s			
MOS	XI	06 08 09 16.7	37.7N	69.8E	33	4.7b			
NEIC	XI	06 08 09 17.5	37.63N	69.65E	33	4.7b			
NEIC	Less reliable solution.								
ISC	**XI**	**06 08 14 30**±1.1	**37.65N**±.050	**70.02E**±.094	**45**±12	**4.3b,4.0s**	**41**	**4-149**	
EIDC	XI	06 08 14 25.8	37.7N	69.9E	0	4.2b,4.0s			¶97xi0947
NDI	XI	06 08 14 28.3	37.5N	69.8E	33				
BJI	XI	06 08 14 28.3	37.60N	69.90E	33	4.4b,4.1s			
NEIC	XI	06 08 14 28.3	37.56N	69.88E	33				
MOS	XI	06 08 14 28.8	37.6N	69.9E	33	4.6b			
NEIC	Less reliable solution.								
ISC	**XI**	**06 08 33 04**±1.5	**37.50N**±.071	**69.9E**±.19	**47**±17	**4.0b**,3.3s	**17**	**4-86**	
MOS	XI	06 08 32 53.0	37.4N	68.6E	33	4.5b			¶97xi0949
EIDC	XI	06 08 32 58.8	37.3N	69.6E	0	4.1b,4.2L			
NDI	XI	06 08 33 01.5	37.2N	69.5E	33				
NEIC	XI	06 08 33 01.5	37.29N	69.57E	33				
NEIC	Single network solution.								
ISC	**XI**	**06 11 53 40**±2.9	**37.4N**±.31	**69.9E**±.22	**100**		**6**	**4-8**	
NDI	XI	06 11 53 29.2	37.09N	66.04E	33	4.3L			¶97xi0972
ISC	**XI**	**17 05 18 58.9**±.95	**37.41N**±.073	**71.8E**±.12	**132**±12	**3.9b**	**22**	**4-84**	
NDI	XI	17 05 19 00.2	37.2N	71.7E	150	3.5b			¶97xi2742
NEIC	XI	17 05 19 00.2	37.32N	71.78E	150	3.9b			
EIDC	XI	17 05 19 00.7	37.3N	71.9E	140	3.8b			
BJI	XI	17 05 19 02.8	37.47N	72.46E	150	4.2b			
NEIC	Less reliable solution.								
ISC	**XI**	**24 11 59 13**±1.0	**36.24N**±.088	**71.3E**±.15	**133**±15	**3.7b**	**18**	**2-81**	
NDI	XI	24 11 59 12.8	36.46N	71.64E	121	4.2b			¶97xi4315
NEIC	XI	24 11 59 12.8	36.46N	71.64E	121	4.2b			
EIDC	XI	24 11 59 14.4	36.4N	71.6E	124	3.6b			
BJI	XI	24 11 59 15.6	36.17N	71.80E	121				
NEIC	Poor solution.								
ISC	**XI**	**26 17 03 58**±1.3	**36.7N**±.13	**71.4E**±.20	**246**±16	**3.5b**	**12**	**3-81**	
BJI	XI	26 17 03 56.8	36.69N	71.23E	241				¶97xi4722
NEIC	XI	26 17 03 57.7	36.68N	71.37E	247	3.7b			
EIDC	XI	26 17 03 58.1	36.7N	71.4E	233	3.3b			
NEIC	Less reliable solution.								
ISC	**XII**	**01 19 14 56.3**±.67	**36.48N**±.075	**71.3E**±.13	**228**±8.8	**3.8b**	**22**	**3-84**	
BJI	XII	01 19 14 41.6	35.93N	70.13E	250				¶97xii0132
NDI	XII	01 19 14 56.4	35.68N	70.34E	253	4.0L			
NEIC	XII	01 19 14 56.4	35.68N	70.34E	253				
EIDC	XII	01 19 14 57.5±1.66	35.7N	70.4E	247±15.0	3.5b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi-major=44.8km semi-minor=16.4km azimuth=52								
ISC	**XII**	**07 02 27 28.5**±.88	**36.5N**±.11	**71.1E**±.27	**33**	**3.6b**	**8**	**3-44**	
NDI	XII	07 02 27 31.7	38.13N	76.07E	33	3.7L			¶97xii1588
EIDC	XII	07 02 27 54.5	39.5N	68.8E	0	3.7b			
EIDC	Origin time error = 58.89Error ellipse is semi-major=1016.6km semi-minor=196.2km azimuth=147								
ISC	**XII**	**09 18 05 22**±1.2	**38.0N**±.15	**71.7E**±.28	**33**	**3.6b**	**5**	**6-43**	
EIDC	XII	09 18 04 58.0	35.5N	72.8E	0	3.8b			¶97xii2212
EIDC	Origin time error = 46.35Error ellipse is semi-major=840.4km semi-minor=46.3km azimuth=158LO CONF								
ISC	**XII**	**14 05 53 33**±2.5	**36.4N**±.26	**71.8E**±.24	**155**±42	**3.3b**	**12**	**3-81**	
EIDC	XII	14 05 53 30.3±4.74	36.7N	71.3E	71±62.8	3.3b,4.1L			¶97xii3092
NDI	XII	14 05 53 30.6	36.63N	71.52E	100	3.1b			
NEIC	XII	14 05 53 30.6	36.63N	71.52E	100	3.1b			
EIDC	Error ellipse is semi-major=47.9km semi-minor=31.4km azimuth=89								
ISC	**XII**	**14 06 48 06**±2.1	**36.1N**±.16	**71.7E**±.20	**157**±28	**3.3b**	**13**	**3-82**	
NDI	XII	14 06 48 02.5	36.39N	71.19E	100	3.1b			¶97xii3103
NEIC	XII	14 06 48 02.5	36.39N	71.19E	100	3.1b			
EIDC	XII	14 06 48 04.6±4.72	36.4N	71.2E	100±60.3	3.3b,4.1L			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi-major=50.2km semi-minor=23.6km azimuth=110								
ISC	**XII**	**16 05 18 52**±1.9	**36.9N**±.19	**72.0E**±.17	**189**±28	**3.7b**	**24**	**3-151**	
NEIC	XII	16 05 18 51.0	37.22N	71.75E	159	3.5b			¶97xii3389
EIDC	XII	16 05 18 51.1±2.14	37.2N	71.8E	142±27.0	3.6b			
NDI	XII	16 05 18 55.4	37.71N	74.66E	33	3.2L			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi-major=27.2km semi-minor=20.1km azimuth=66								
ISC	**XII**	**17 03 38 36**±1.3	**37.4N**±.17	**70.5E**±.27	**33**	**3.6b**	**6**	**7-80**	
EIDC	XII	17 03 38 13.9±6.41	34.9N	71.3E	0	3.7b			¶97xii3546
EIDC	Error ellipse is semi-major=130.7km semi-minor=42.9km azimuth=159Aftershock: abbreviated analysisLO CONF Location								
ISC	**XII**	**17 18 51 20.6**±.77	**37.03N**±.057	**71.94E**±.067	**144**±9.6	**3.7b**	**50**	**3-84**	
BJI	XII	17 18 51 19.1	37.23N	71.80E	111	4.4b			¶97xii3646
NEIC	XII	17 18 51 20.9	37.13N	71.68E	141	3.9b			
EIDC	XII	17 18 51 21.3±1.87	37.0N	71.7E	133±19.6	3.5b			
NDI	XII	17 18 51 28.4	37.39N	74.86E	200	4.6L			
EIDC	Error ellipse is semi-major=17.5km semi-minor=14.1km azimuth=77								
ISC	**XII**	**18 18 22 22**±1.3	**36.8N**±.14	**71.3E**±.18	**221**±17	**3.6b**	**28**	**4-84**	
EIDC	XII	18 18 22 24.0±1.52	36.4N	70.9E	235±25.3	3.3b			¶97xii3802
NEIC	XII	18 18 22 24.4	36.57N	70.95E	250	3.6b			
NDI	XII	18 18 22 26.9	37.92N	73.92E	33	3.7L			
EIDC	Error ellipse is semi-major=76.2km semi-minor=21.7km azimuth=45								
NEIC	Poor solution.								
ISC	**XII**	**20 23 21 52.5**±.72	**36.25N**±.062	**71.71E**±.066	**144**±9.5	**3.9b**	**52**	**2-84**	
NDI	XII	20 23 21 47.1	37.03N	72.26E	33	5.0b			¶97xii4180
NEIC	XII	20 23 21 51.7	36.35N	71.61E	131	4.2b			
BJI	XII	20 23 21 52.4	36.22N	71.73E	100	3.9b			
EIDC	XII	20 23 21 54.7±1.42	36.3N	71.5E	143±12.8	3.7b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi-major=19.6km semi-minor=15.3km azimuth=68								
ISC	**XII**	**24 14 27 15.5**±.83	**36.64N**±.098	**71.43E**±.094	**203**±12	**3.4b**	**36**	**3-84**	
NDI	XII	24 14 27 15.8	36.60N	71.22E	207	3.6b			¶97xii4771
NEIC	XII	24 14 27 15.8	36.60N	71.22E	207	3.6b			
EIDC	XII	24 14 27 16.5±1.36	36.5N	71.2E	202±16.9	3.2b			
NEIC	Less reliable solution.								
EIDC	Error ellipse is semi-major=38.8km semi-minor=14.6km azimuth=55								
ISC	**XII**	**25 08 29 56**±1.5	**36.2N**±.22	**71.2E**±.29	**266**±21	**3.6b**	**12**	**3-81**	
NDI	XII	25 08 29 55	36.12N	70.74E	250	4.5b			¶97xii4898
NEIC	XII	25 08 29 55.0	36.12N	70.72E	250	4.5b			
EIDC	XII	25 08 29 57.1±1.63	35.7N	70.8E	288±145.7	3.3b			
NEIC	Poor solution.								
EIDC	Error ellipse is semi-major=437.3km semi-minor=50.8km azimuth=25								
ISC	**XII**	**29 09 16 34**±1.7	**36.1N**±.14	**71.6E**±.14	**160**±22	**3.3b**	**19**	**3-82**	
EIDC	XII	29 09 16 34.2±3.45	36.3N	71.4E	130±50.9	3.3b			¶97xii5567
EIDC	Error ellipse is semi-major=48.1km semi-minor=23.7km azimuth=111								
ISC	**XII**	**31 10 25 45**±1.7	**36.7N**±.26	**71.2E**±.26	**235**±39	**3.5b**	**14**	**3-81**	
EIDC	XII	31 10 25 11.3±5.55	35.1N	71.5E	0	3.9b			¶97xii5875
NDI	XII	31 10 25 15	35.26N	71.27E	33	4.0b			
NEIC	XII	31 10 25 15.0	35.27N	71.27E	33	4.0b			
EIDC	Error ellipse is semi-major=109.5km semi-minor=34.2km azimuth=160								
NEIC	Poor solution.								

(718) Hindu Kush region.

ISC	**VII**	**13 19 49 01**±2.4	**36.1N**±.16	**69.0E**±.21	**132**±24	**3.5b**	**8**	**4-96**	
NEIC	VII	13 19 49 00.5	36.07N	69.02E	131				¶97vii2017
EIDC	VII	13 19 49 01.9	35.9N	69.0E	123	3.3b			
NEIC	Single network solution.								
ISC	**VII**	**14 12 49 19.9**±.86	**36.12N**±.048	**69.23E**±.047	**75**±9.0	**4.3b**	**93**	**3-87**	
MOS	VII	14 12 49 19.7	36.2N	69.2E	71	4.6b			¶97vii2130
BJI	VII	14 12 49 19.9	36.18N	69.51E	60	4.5L,4.7b			
NEIC	VII	14 12 49 21.1	36.07N	69.25E	90	4.3b			
EIDC	VII	14 12 49 22.4	36.0N	69.2E	90	4.1b,3.7s			
BJI	Ms3.7								
ISC	**VII**	**15 03 24 58.3**±.89	**36.48N**±.085	**70.7E**±.12	**196**±11	**3.6b**	**23**	**3-150**	
BJI	VII	15 03 24 58.2	36.30N	70.87E	178				¶97vii2247
NEIC	VII	15 03 24 58.9	36.50N	70.72E	202				
EIDC	VII	15 03 25 00.6	36.4N	70.7E	196	3.5b			
NEIC	Less reliable solution.								
ISC	**VII**	**17 15 25 24**±1.1	**36.42N**±.088	**70.2E**±.14	**234**±9.9	**3.5b**	**21**	**3-85**	
BJI	VII	17 15 25 21.1	36.43N	70.08E	217	4.0b			¶97vii2609
NEIC	VII	17 15 25 23.7	36.32N	70.16E	238				
EIDC	VII	17 15 25 26.4	36.2N	70.3E	248	3.3b			
NEIC	Less reliable solution.								
ISC	**VII**	**18 17 09 26.4**±.79	**36.37N**±.072	**70.8E**±.13	**193**±10	**3.7b**	**22**	**3-84**	
BJI	VII	18 17 09 24.9	36.40N	70.85E	181				¶97vii2769
NEIC	VII	18 17 09 26.1	36.37N	70.80E	190				
EIDC	VII	18 17 09 27.9	36.3N	70.8E	191	3.5b			
NEIC	Less reliable solution.								
ISC	**VII**	**25 02 46 42**±2.1	**36.3N**±.24	**70.8E**±.33	**211**±25	**3.2b**	**6**	**3-84**	
NEIC	VII	25 02 46 41.3	36.36N	70.74E	200				¶97vii3759
EIDC	VII	25 02 46 43.3	36.3N	70.9E	209	3.1b			

Agency		Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
NEIC		Single network solution.						
ISC	**VII**	**25 20 36 05**±1.5	**36.2N**±.12	**70.6E**±.13	**110**±19	**3.7b**	**20**	**3-138**
NEIC	VII	25 20 36 04.8	36.29N	70.61E	100			¶97vii3876
EIDC	VII	25 20 36 07.5	36.1N	70.6E	109	3.5b		
NEIC		Single network solution.						
ISC	**VII**	**26 13 49 22**±2.6	**36.4N**±.23	**70.3E**±.23	**133**±39	**3.6b**	**11**	**3-57**
EIDC	VII	26 13 49 08.7	36.4N	70.1E	0	3.9b		¶97vii3972
ISC	**VII**	**26 16 36 40.4**±.52	**36.48N**±.039	**70.19E**±.056	**228**±5.8	**4.2b**	**83**	**3-149**
BJI	VII	26 16 36 39.4	36.49N	70.16E	217	4.3b		¶97vii3983
MOS	VII	26 16 36 39.9	36.5N	70.2E	224	5.0b		
NEIC	VII	26 16 36 40.4	36.39N	70.14E	234	4.6b		
EIDC	VII	26 16 36 41.1	36.4N	70.1E	228	4.0b		
ISC	**VII**	**27 17 44 32**±1.7	**36.4N**±.13	**70.3E**±.20	**234**±18	**3.4b**	**11**	**4-85**
NEIC	VII	27 17 44 31.9	36.37N	70.27E	233			¶97vii4144
EIDC	VII	27 17 44 33.3	36.2N	70.3E	235	3.2b		
NEIC		Single network solution.						
ISC	**VIII**	**03 06 26 19**±1.4	**36.5N**±.13	**70.8E**±.17	**115**±17	**3.6b**	**17**	**3-84**
NEIC	VIII	03 06 26 17.4	36.64N	70.96E	100			¶97viii0318
EIDC	VIII	03 06 26 19.4	36.5N	70.8E	104	3.4b		
NEIC		Single network solution.						
ISC	**VIII**	**06 15 00 11.7**±.45	**36.46N**±.029	**70.89E**±.026	**203**±4.8	**4.8b**	**357**	**3-150**
RYD	VIII	06 14 59 39.3	41.67N	67.75E	45	4.3D		¶97viii0810
BJI	VIII	06 15 00 10.1	36.47N	70.84E	189	5.3b		
NEIC	VIII	06 15 00 10.4	36.44N	70.92E	193	4.9b		
MOS	VIII	06 15 00 11.3	36.6N	70.9E	192	5.5b		
EIDC	VIII	06 15 00 12.5	36.4N	70.8E	198	4.7b		
ISC	**VIII**	**06 15 11 25.8**±.78	**36.36N**±.087	**70.8E**±.11	**215**±9.5	**4.0b**	**29**	**3-86**
NEIC	VIII	06 15 11 24.4	36.41N	70.83E	199	4.5b		¶97viii0813
MOS	VIII	06 15 11 25.5	36.5N	71.0E	216	4.4b		
EIDC	VIII	06 15 11 25.9	36.4N	70.8E	201	3.7b		
ISC	**VIII**	**07 06 45 15.1**±.78	**36.43N**±.081	**70.9E**±.13	**208**±10	**3.7b**	**22**	**3-84**
BJI	VIII	07 06 45 12.6	36.37N	70.83E	187			¶97viii0899
NEIC	VIII	07 06 45 14.4	36.35N	70.79E	200	4.0b		
EIDC	VIII	07 06 45 15.7	36.4N	70.8E	200	3.6b		
NEIC		Less reliable solution.						
ISC	**VIII**	**09 00 11 55.4**±.61	**36.45N**±.061	**71.00E**±.078	**216**±7.7	**3.7b**	**50**	**3-150**
NEIC	VIII	09 00 11 53.5	36.47N	71.05E	200	3.8b		¶97viii1181
BJI	VIII	09 00 11 54.4	36.43N	70.98E	204			
MOS	VIII	09 00 11 54.9	36.4N	71.1E	217	3.8b		
EIDC	VIII	09 00 11 56.0	36.5N	71.1E	210	3.6b		
ISC	**VIII**	**13 00 01 09.7**±.64	**36.91N**±.033	**70.78E**±.033	**100**±6.8	**4.8b**	**260**	**3-150**
HRVD	VIII	13 00 01 06.2±1.1	36.32N±.15	70.55E±.12	49±7.9			¶97viii1828
BJI	VIII	13 00 01 09.1	36.98N	70.84E	89	4.7b,4.3s		
MOS	VIII	13 00 01 09.3	37.0N	70.8E	92	5.1b		
NEIC	VIII	13 00 01 09.4	36.89N	70.78E	100	5.0b		
EIDC	VIII	13 00 01 11.6	36.8N	70.7E	108	4.3b,3.2s		
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s18,c21; Half duration: 1s0. Moment tensor: Scale 10^{16}Nm; M_{rr}2.84±.29; $M_{\theta\theta}$−1.62±.50; $M_{\phi\phi}$−1.22±.40; $M_{r\theta}$−0.50±1.20; $M_{r\phi}$0.63±.95; $M_{\theta\phi}$−1.31±.36. Principal Axes: T 3.05,Plg76°,Azm229°; N −0.30,Plg14°,Azm49°; P −2.75,Plg0°,Azm139°. Best double couple: $M_0$2.9×10^{16}Nm, NP1: φs243°,δ47°,λ110°. NP2:φs35°,δ47°,λ70°.						
NEIC	Mw4.9(HRV).							
ISC	**VIII**	**16 07 29 03.9**±.85	**36.38N**±.058	**69.49E**±.069	**82**±10	**3.8b**	**43**	**3-85**
NEIC	VIII	16 07 28 58.6	36.35N	69.46E	37	4.3b		¶97viii2330
BJI	VIII	16 07 28 59.4	36.14N	69.52E	48	4.5L,4.1b		
MOS	VIII	16 07 28 59.7	36.4N	69.5E	33	4.5b		
EIDC	VIII	16 07 29 02.6	36.4N	69.2E	40	3.8b,3.8s		
NEIC		Less reliable solution.						
ISC	**VIII**	**17 01 56 10**±1.1	**36.0N**±.12	**70.49E**±.092	**123**±18	**3.8b**	**24**	**2-77**
NEIC	VIII	17 01 56 07.1	36.06N	70.35E	94	4.1b		¶97viii2455
EIDC	VIII	17 01 56 08.7	36.0N	70.2E	88	3.6b,3.3s		
MOS	VIII	17 01 56 10.7	35.9N	70.7E	148	4.2b		
NEIC		Less reliable solution.						
ISC	**VIII**	**19 15 01 39.5**±.80	**36.02N**±.061	**70.85E**±.095	**120**±10	**4.0b**	**37**	**2-84**
NEIC	VIII	19 15 01 38.0	36.10N	70.89E	100	4.1b		¶97viii2823
MOS	VIII	19 15 01 39.4	36.1N	71.0E	119	4.1b		
BJI	VIII	19 15 01 39.6	36.17N	70.49E	125	3.9b		
EIDC	VIII	19 15 01 40.5	35.9N	70.7E	115	3.8b		
NEIC		Less reliable solution.						
ISC	**VIII**	**21 04 52 31.6**±.82	**36.40N**±.075	**70.4E**±.12	**232**±10	**3.7b**	**22**	**3-85**
BJI	VIII	21 04 52 28.9	36.39N	70.19E	215	4.4b		¶97viii3055
NEIC	VIII	21 04 52 29.2	36.40N	70.24E	211	4.5b		
EIDC	VIII	21 04 52 31.7	36.3N	70.2E	219	3.6b		
NEIC		Less reliable solution.						
ISC	**IX**	**01 00 35 41.7**±.68	**36.40N**±.096	**70.7E**±.13	**229**±14	**3.5b**	**16**	**3-82**
BJI	IX	01 00 35 44.0	36.36N	71.22E	232			¶97ix0010
EIDC	IX	01 00 35 48.3	36.4N	70.8E	283	3.3b		
ISC	**IX**	**01 04 57 36**±4.0	**36.4N**±.29	**70.7E**±.27	**84**±61	**3.7b**	**12**	**3-75**
NEIC	IX	01 04 57 37.8	36.46N	71.04E	100			¶97ix0048
EIDC	IX	01 04 57 39.4	36.1N	70.7E	110	3.6b,3.0s		
NEIC		Poor solution.						
ISC	**IX**	**07 04 20 31.1**±.79	**36.3N**±.12	**70.8E**±.16	**231**±13	**3.6b**	**22**	**3-84**
EIDC	IX	07 04 20 30.2	36.2N	70.7E	213	3.4b		¶97ix1009
NEIC	IX	07 04 20 30.4	36.30N	70.78E	225	4.1b		
NEIC		Less reliable solution.						
ISC	**IX**	**08 14 40 01.7**±.66	**36.48N**±.073	**70.13E**±.086	**229**±8.6	**3.7b**	**30**	**3-149**
BJI	IX	08 14 40 02.1	36.52N	70.27E	211			¶97ix1236
NEIC	IX	08 14 40 02.3	36.51N	70.22E	234	4.1b		
EIDC	IX	08 14 40 03.1	36.4N	70.2E	232	3.5b		
NEIC		Less reliable solution.						
ISC	**IX**	**18 02 46 55.6**±.71	**36.42N**±.077	**70.7E**±.10	**197**±9.6	**3.7b**	**23**	**3-84**
BJI	IX	18 02 46 55.5	36.57N	70.77E	189	4.3b		¶97ix2599
NEIC	IX	18 02 46 56.0	36.37N	70.79E	200	3.4b		
EIDC	IX	18 02 47 01.8	36.4N	70.7E	246	3.5b		
NEIC		Less reliable solution.						
ISC	**IX**	**19 16 17 58.2**±.65	**35.96N**±.045	**70.43E**±.066	**116**±7.7	**4.2b**	**52**	**2-149**
MOS	IX	19 16 17 56.1	36.0N	70.4E	95	4.8b		¶97ix2812
NEIC	IX	19 16 17 56.7	36.04N	70.53E	100	4.5b		
BJI	IX	19 16 17 57.1	35.92N	70.52E	100	4.4b		
EIDC	IX	19 16 18 08.9	36.0N	70.4E	204	3.8b		
ISC	**IX**	**20 12 54 35**±1.6	**36.3N**±.13	**70.6E**±.21	**220**±20	**3.7b**	**13**	**3-81**
NEIC	IX	20 12 54 34.2	36.42N	70.51E	200			¶97ix2945
EIDC	IX	20 12 54 35.4	36.2N	70.5E	206	3.5b		
NEIC		Single network solution.						
ISC	**IX**	**21 03 29 42.1**±.84	**36.35N**±.099	**70.4E**±.11	**164**±15	**4.0b**	**20**	**3-85**
EIDC	IX	21 03 28 46.9	31.4N	71.9E	0	4.5b		¶97ix3038
NEIC	IX	21 03 28 50.2	31.51N	72.06E	33	4.1b		
BJI	IX	21 03 29 39.8	36.42N	71.31E	5	4.2L		
NEIC		Poor solution.						
ISC	**IX**	**22 12 08 58.2**±.66	**36.54N**±.070	**70.9E**±.19	**200**	**3.5b**	**14**	**3-84**
EIDC	IX	22 12 09 07.7	36.4N	70.8E	284	3.3b		¶97ix3275
NEIC	IX	22 12 09 08.4	36.76N	71.11E	300	3.6b		
NEIC		Poor solution.						
ISC	**IX**	**30 03 37 46**±1.3	**36.4N**±.60	**70.9E**±.99	**213**	**3.3b**	**6**	**3-84**
EIDC	IX	30 03 37 47.0	36.3N	70.8E	213	3.2b		¶97ix5110
ISC	**IX**	**30 06 52 34**±1.2	**36.29N**±.080	**69.2E**±.11	**70**±15	**3.9b**	**23**	**3-85**
NEIC	IX	30 06 52 33.4	36.31N	69.25E	60			¶97ix5152
BJI	IX	30 06 52 33.9	36.45N	69.20E	62	4.0L		
EIDC	IX	30 06 52 36.9	36.3N	69.3E	77	3.7b		
NEIC		Less reliable solution.						
ISC	**X**	**04 12 31 06**±1.1	**36.2N**±.12	**70.5E**±.20	**177**±16	**3.7b**	**16**	**3-75**
EIDC	X	04 12 31 15.2	36.3N	70.4E	248	3.4b		¶97x0643
NEIC	X	04 12 31 19.4	36.60N	70.89E	300			
NEIC		Poor solution.						
ISC	**X**	**12 04 20 22**±1.1	**36.4N**±.21	**70.5E**±.34	**200**	**3.5b**	**5**	**4-57**
EIDC	X	12 04 20 24.2	36.3N	71.2E	241	3.3b		¶97x1986
ISC	**X**	**19 14 31 06.1**±.47	**36.47N**±.035	**70.83E**±.041	**203**±5.5	**4.7b**	**143**	**3-150**
BJI	X	19 14 31 05.1	36.48N	70.83E	197	4.7b		¶97x3358
MOS	X	19 14 31 05.8	36.5N	70.9E	200	4.8b		
NEIC	X	19 14 31 06.0	36.41N	70.79E	206	4.8b		
EIDC	X	19 14 31 07.8	36.4N	70.8E	207	4.4b		
ISC	**X**	**24 17 28 31**±1.4	**35.5N**±.12	**69.6E**±.18	**101**±15	**3.7b**	**15**	**3-85**
NEIC	X	24 17 28 30.6	35.31N	69.50E	100			¶97x4201
EIDC	X	24 17 28 31.8	35.4N	69.5E	92	3.5b		
NEIC		Poor solution.						
ISC	**X**	**31 17 15 43.8**±.57	**36.08N**±.032	**70.88E**±.032	**124**±6.1	**5.0b**	**224**	**2-150**
BJI	X	31 17 15 41.0	36.08N	70.83E	91	5.0b		¶97x5208
NEIC	X	31 17 15 41.3	36.04N	70.88E	102	5.0b		
MOS	X	31 17 15 42.0	36.2N	71.0E	100	5.3b		
EIDC	X	31 17 15 44.9	36.0N	70.8E	123	4.7b,4.2s		
NEIC		Felt at Peshawar, Pakistan.						
ISC	**XI**	**01 03 46 33.9**±.42	**36.46N**±.029	**70.69E**±.027	**207**±4.6	**4.7b**	**306**	**3-150**
NDI	XI	01 03 46 30	36.1N	71.1E	96	5.4b		¶97xi0026
BJI	XI	01 03 46 33.3	36.53N	70.78E	195	5.0b		
NEIC	XI	01 03 46 33.6	36.44N	70.70E	207	4.8b		
MOS	XI	01 03 46 34.1	36.5N	70.8E	206	5.0b		
EIDC	XI	01 03 46 35.8	36.4N	70.8E	211	4.7b		
NEIC		Felt at Peshawar, Pakistan.						
ISC	**XI**	**09 03 32 19**±1.2	**36.1N**±.21	**70.8E**±.31	**33**	**3.8b**	**6**	**20-84**
EIDC	XI	09 03 32 14.9	35.9N	70.7E	0	3.9b		¶97xi1389
NDI	XI	09 03 32 18.6	36.0N	70.8E	33			
NEIC	XI	09 03 32 18.6	36.07N	70.83E	33			
EIDC		LO CONF Depth						
NEIC		Poor solution.						
ISC	**XI**	**21 20 01 10**±1.2	**35.99N**±.094	**70.7E**±.16	**112**±18	**3.8b**	**17**	**2-84**
NDI	XI	21 20 01 10.1	36.3N	71.1E	100	3.9b		¶97xi3728
NEIC	XI	21 20 01 10.9	35.85N	70.57E	123	4.0b		
EIDC	XI	21 20 01 12.7	36.2N	71.2E	120	3.6b		
BJI	XI	21 20 01 13.5	36.36N	71.04E	132			
NEIC		Poor solution.						
ISC	**XI**	**28 01 07 54.2**±.82	**35.5N**±.13	**65.4E**±.11	**33**	**4.0b**	**17**	**5-88**
EIDC	XI	28 01 07 51.0	35.4N	65.4E	0	4.0b		¶97xi4983
BJI	XI	28 01 07 53.4	35.82N	65.18E	41	4.1b		
NEIC	XI	28 01 07 54.4	35.50N	65.43E	33	4.5b		
NEIC		Less reliable solution.						
ISC	**XII**	**04 07 44 58**±2.1	**36.1N**±.34	**70.9E**±.18	**164**±43	3.6b	**9**	**2-45**
								¶97xii0573
ISC	**XII**	**15 18 52 10.8**±.41	**36.39N**±.033	**70.51E**±.035	**212**±5.0	**4.4b**	**143**	**3-149**
BJI	XII	15 18 52 10.3	36.54N	70.52E	203	4.8b		¶97xii3323
MOS	XII	15 18 52 10.5	36.4N	70.5E	204	4.9b		
NDI	XII	15 18 52 11.2	36.39N	70.50E	217	4.5b		
NEIC	XII	15 18 52 11.2	36.40N	70.50E	217	4.5b		
EIDC	XII	15 18 52 13.3±.50	36.4N	70.5E	218±4.4	4.2b		
EIDC		Error ellipse is semi−major=9.8km semi−minor=8.4km azimuth=50						
ISC	**XII**	**17 05 51 29.6**±.33	**36.42N**±.023	**70.79E**±.020	**210**±3.8	**5.3b**	**590**	**3-150**
NEIC	XII	17 05 51 29.2	36.39N	70.77E	207	5.5b		¶97xii3561
BJI	XII	17 05 51 29.4	36.56N	70.76E	205	5.6b		
MOS	XII	17 05 51 29.5	36.5N	70.8E	204	5.7b		
EIDC	XII	17 05 51 31.7±.40	36.4N	70.8E	215±3.0	5.4b		
NDI	XII	17 05 51 36	36.50N	73.10E	96	5.3b		
HRVD	XII	17 05 51 36.2±.2	36.53N±.02	70.62E±.02	224±1.4			
NEIC	Mw6.3(HRV). Felt.							
MOS	Felt I=IV MSK at Samarkand; I=III−IV at Tashkent; I=III at Fergana; I=II−III at Djambul, Chimkent.							
EIDC	Error ellipse is semi−major=9.4km semi−minor=7.3km azimuth=35							
HRVD	Centroid moment tensor solution. Data used: GSN; LP body waves: s42,c79; Mantle waves: s37,c64; Half duration: 3s4. Moment tensor: Scale 10^{18}Nm; M_{rr}1.97±.04; $M_{\theta\theta}$−1.80±.06; $M_{\phi\phi}$−0.17±.06; $M_{r\theta}$2.36±.04; $M_{r\phi}$−0.71±.04; $M_{\theta\phi}$0.61±.07. Principal Axes: T 3.15,Plg64°,Azm16°; N 0.03,Plg1°,Azm107°; P −3.19,Plg26°,Azm198°. Best double couple: $M_0$3.2×10^{18}Nm, NP1:φs289°,δ19°,λ92°. NP2:φs107°,δ71°,λ89°.							
ISC	**XII**	**19 20 40 29**±1.3	**36.3N**±.11	**70.9E**±.14	**227**±15	**3.5b**	**25**	**3-84**
NEIC	XII	19 20 40 29.3	36.31N	70.90E	228	3.0b		¶97xii4035
EIDC	XII	19 20 40 29.9±1.39	36.3N	70.9E	218±15.6	3.4b		
NDI	XII	19 20 40 34.2	36.47N	71.69E	33	3.5L		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=22.1km semi−minor=15.8km azimuth=68						
ISC	**XII**	**24 07 22 20**±1.0	**35.2N**±.11	**67.6E**±.10	**77**±12	**3.9b**	**33**	**4-86**
EIDC	XII	24 07 22 11.8±.91	35.1N	67.7E	0	4.0b,3.5s		¶97xii4718
NDI	XII	24 07 22 19.9	35.21N	67.53E	75	3.7b		
NEIC	XII	24 07 22 19.9	35.21N	67.53E	75	3.7b		
EIDC		Error ellipse is semi−major=30.9km semi−minor=19.4km azimuth=51						
NEIC		Less reliable solution.						
ISC	**XII**	**28 14 16 22.5**±.66	**36.45N**±.059	**70.61E**±.074	**206**±8.2	**3.9b**	**46**	**3-84**
BJI	XII	28 14 16 20.0	36.57N	70.40E	194	4.4b		¶97xii5459
NDI	XII	28 14 16 22.1	36.50N	70.46E	200	4.2b		
NEIC	XII	28 14 16 22.1	36.51N	70.46E	200	4.2b		
EIDC	XII	28 14 16 24.2±.55	36.3N	70.6E	213±4.1	3.6b		
NEIC		Less reliable solution.						
EIDC		Error ellipse is semi−major=19.2km semi−minor=9.5km azimuth=57						

(719) Tadzhikistan-Xinjiang border region.

ISC	**IX**	**07 19 42 11.5**±.88	**38.46N**±.079	**73.9E**±.14	**130**±14	**3.7b**	**21**	**2-79**
BJI	IX	07 19 42 14.7	39.17N	73.92E	122			¶97ix1118
NEIC	IX	07 19 42 16.3	38.87N	73.96E	150	3.9b		
EIDC	IX	07 19 42 18.8	38.7N	73.9E	172	3.5b		
NEIC		Poor solution.						
ISC	**XI**	**07 07 36 18**±2.2	**39.3N**±.11	**73.7E**±.22	**82**±25	**3.5b**	**8**	**6-82**
EIDC	XI	07 07 36 19.0	39.3N	73.8E	68	3.4b,4.3L		¶97xi1094

ISC	**XI**	**15 05 23 36**±1.8	**39.7N**±.14	**73.3E**±.14	**84**±24	**3.7b**	**13**	**2-71**
NDI	XI	15 05 23 31.6	39.8N	73.4E	33			¶97xi2422
NEIC	XI	15 05 23 31.6	39.90N	73.45E	33			
BJI	XI	15 05 23 31.7	40.22N	73.48E	32	3.9L,3.8b		
EIDC	XI	15 05 23 38.0	39.6N	73.4E	92	3.6b		
NEIC	Single network solution.							
NDI	**XI**	**19 10 39 08.2**	**38.45N**	**74.51E**	**40**	**3.1L**		¶97xi3194
ISC	**XI**	**23 03 09 39.2**±.95	**37.0N**±.12	**75.5E**±.24	**199**	**3.6b**	**13**	**4-46**
NDI	XI	23 03 09 39.8	37.29N	75.5E	199			¶97xi4012
NEIC	XI	23 03 09 39.8	37.29N	75.75E	199			
EIDC	XI	23 03 09 41.3	37.2N	75.6E	199	3.4b		
NEIC	Poor solution.							
ISC	**XI**	**25 02 45 54**±1.8	**38.6N**±.12	**73.8E**±.20	**119**±29	**3.4b**	**18**	**2-60**
EIDC	XI	25 02 45 43.9	38.5N	73.4E	0	3.6b		¶97xi4433
NDI	XI	25 02 45 57.2	38.39N	72.91E	96	3.4L		
BJI	XI	25 02 45 59.8	37.66N	77.01E	10	3.7L		
ISC	**XI**	**28 15 07 46.7**±.73	**38.79N**±.047	**73.12E**±.094	**91**±10	**3.8b**	**37**	**2-79**
EIDC	XI	28 15 07 42.5	39.3N	72.7E	28	3.6b		¶97xi5106
BJI	XI	28 15 07 42.6	38.64N	73.01E	61	4.5L,4.5b		
NDI	XI	28 15 07 43.6	38.9N	73.14E	50	4.4b		
MOS	XI	28 15 07 46.0	38.8N	73.2E	76	4.7b		
NEIC	XI	28 15 07 46.3	38.89N	73.19E	81	4.4b		
NEIC	Less reliable solution.							
ISC	**XII**	**14 10 04 29.8**±.75	**38.15N**±.049	**74.38E**±.064	**154**±9.6	**3.9b**	**54**	**2-83**
NDI	XII	14 10 04 29.8	38.25N	74.28E	150	4.0b		¶97xii3131
NEIC	XII	14 10 04 29.8	38.25N	74.28E	150	4.0b		
BJI	XII	14 10 04 31.7	38.41N	74.26E	176	4.5b		
EIDC	XII	14 10 04 32.4±1.95	38.1N	74.2E	165±23.2	3.7b		
EIDC	Error ellipse is semi−major=17.1km semi−minor=14.9km azimuth=49							
ISC	**XII**	**21 23 53 48**±1.7	**38.9N**±.15	**74.3E**±.36	**33**	3.3b	**16**	**6-79**
								¶97xii4323
ISC	**XII**	**22 11 11 32**±1.1	**39.5N**±.18	**73.5E**±.56	**33**	**3.5b**	**5**	**7-78**
EIDC	XII	22 11 11 39.0	41.2N	73.9E	0	3.6b		¶97xii4412
EIDC	Origin time error = 11.65Error ellipse is semi−major=279.7km semi−minor=57.9km azimuth=10							

(720) North-Western Kashmir.

NDI	**XII**	**27 08 00 27.3**	**35.60N**	**74.84E**	**33**	**3.0L**		¶97xii5269

Seismic Region 49. Northern Eurasia.

(721) Finland.

BER	**VII**	**07 10 44 34.4**	**63.0N**	**27.9E**	**0**			¶97vii1028
EIDC	VII	07 10 44 36.6	63.0N	27.4E	0	3.6L		
BER	Probable explosion							
BER	**VII**	**11 10 48 02.3**	**63.0N**	**27.8E**	**0**			¶97vii1674
BER	Probable explosion							
BER	**VII**	**16 10 45 43.4**	**63.0N**	**27.9E**	**0**			¶97vii2428
BER	Probable explosion							
ISC	**VII**	**24 11 09 27**±1.1	**60.8N**±.16	**21.6E**±.22	**0**	3.2b	**5**	**2-54**
EIDC	VII	24 11 09 28.4	60.9N	21.6E	0	2.4L,3.0b		¶97vii3663
ISC	**VII**	**28 10 44 56**±1.7	**63.1N**±.14	**27.5E**±.43	**0**		**4**	**2-8**
BER	VII	28 10 45 00.1	63.0N	27.6E	0			¶97vii4255
ISC	Poorly determined							
BER	Probable explosion							
BER	**VII**	**30 10 44 49.3**	**63.0N**	**27.7E**	**0**			¶97vii4573
BER	Probable explosion							
ISC	**VIII**	**01 10 43 56**±1.8	**63.0N**±.15	**27.7E**±.46	**0**		**4**	**2-8**
BER	VIII	01 10 43 59.3	62.9N	28.0E	0			¶97viii0052
ISC	Poorly determined							
BER	Probable explosion							
BER	**VIII**	**05 10 47 13.5**	**63.0N**	**27.9E**	**0**			¶97viii0654
BER	Probable explosion							
BER	**VIII**	**07 11 15 57.9**	**63.6N**	**26.0E**	**0**			¶97viii0933
BER	Probable explosion							
BER	**VIII**	**18 09 17 24.4**	**63.5N**	**27.0E**	**0**			¶97viii2652
BER	Probable explosion							
BER	**VIII**	**27 11 15 41.6**	**67.6N**	**28.6E**	**0**			¶97viii3982
BER	Probable explosion							
ISC	**VIII**	**29 10 47 57**±1.5	**63.1N**±.11	**27.5E**±.39	**0**		**5**	**2-8**
BER	VIII	29 10 48 00.6	63.1N	27.6E	0			¶97viii4281
BER	Probable explosion							
ISC	**IX**	**02 10 43 49**±1.4	**63.2N**±.12	**27.3E**±.38	**0**		**5**	**2-15**
BER	IX	02 10 43 50.8	63.1N	27.8E	0			¶97ix0261
BER	Probable explosion							
ISC	**IX**	**08 10 43 10**±1.2	**63.2N**±.11	**27.1E**±.33	**0**		**8**	**2-8**
EIDC	IX	08 10 43 00.5	63.1N	28.6E	0	2.4L		¶97ix1210
BER	IX	08 10 43 12.6	63.0N	27.7E	0			
BER	Probable explosion							
ISC	**IX**	**10 09 52 13**±1.8	**60.2N**±.21	**22.0E**±.19	**0**		**8**	**2-9**
EIDC	IX	10 09 52 12.0	59.9N	22.2E	0	3.3L		¶97ix1510
BER	IX	10 09 52 12.6	59.7N	22.4E	0			
BER	Probable explosion							
EIDC	**IX**	**11 10 42 05.7**	**63.1N**	**27.8E**	**0**	3.4L		¶97ix1665
EIDC	Multiple, same az							
ISC	**IX**	**13 09 12 00.1**±.94	**60.1N**±.13	**21.9E**±.15	**0**		**9**	**2-21**
EIDC	IX	13 09 11 31.5	57.1N	24.1E	0	3.3L		¶97ix1959
BER	IX	13 09 11 33.5	57.1N	24.0E	0			
BER	Probable explosion							
BER	**IX**	**18 09 09 56.1**	**60.8N**	**22.0E**	**0**			¶97ix2635
BER	Probable explosion							
ISC	**IX**	**25 08 05 30**±1.5	**61.1N**±.22	**20.6E**±.24	**0**		**4**	**3-9**
EIDC	IX	25 08 05 31.3	60.9N	20.6E	0	2.7L		¶97ix3703
ISC	Poorly determined							
ISC	**IX**	**25 08 09 52**±1.5	**61.2N**±.22	**20.5E**±.24	**0**		**4**	**3-9**
EIDC	IX	25 08 09 52.8	61.0N	20.6E	0	2.6L		¶97ix3704
ISC	Poorly determined							
ISC	**IX**	**25 08 28 21**±1.6	**61.0N**±.23	**20.6E**±.24	**0**		**4**	**3-9**
EIDC	IX	25 08 28 22.3	60.9N	20.7E	0	2.7L		¶97ix3709
ISC	Poorly determined							
EIDC	**IX**	**25 08 32 44.1**	**60.9N**	**20.5E**	**0**	**2.7L**		¶97ix3710
ISC	**IX**	**26 10 45 40**±1.6	**63.14N**±.081	**27.5E**±.39	**0**		**8**	**2-17**
EIDC	IX	26 10 45 41.3	63.1N	27.9E	0	3.2L		¶97ix3956
BER	IX	26 10 45 42.4	63.0N	28.0E	0			
BER	Probable explosion							
BER	**X**	**01 14 06 01.2**	**60.6N**	**22.2E**	**0**			¶97x0099
BER	Probable explosion							
EIDC	**X**	**03 15 02 20.9**	**65.8N**	**25.3E**	**0**	**2.6L**		¶97x0482
ISC	**X**	**07 10 49 19**±1.1	**63.24N**±.080	**27.4E**±.29	**0**		**8**	**2-8**
EIDC	X	07 10 49 19.9	63.1N	27.9E	0	2.9L		¶97x1233
BER	X	07 10 49 21.3	63.1N	27.9E	0			
BER	Probable explosion							
EIDC	**X**	**14 11 49 40.7**	**60.7N**	**20.7E**	**0**	**2.9L**		¶97x2396
EIDC	Multiple, same az							
ISC	**X**	**14 12 04 11**±1.5	**61.0N**±.22	**20.4E**±.24	**0**		**4**	**3-9**
EIDC	X	14 12 04 11.8	60.9N	20.4E	0	2.7L		¶97x2400
ISC	Poorly determined							
ISC	**X**	**14 12 17 48.7**±.96	**61.2N**±.13	**20.4E**±.15	**0**		**8**	**3-9**
EIDC	X	14 12 17 49.5	60.8N	20.6E	0	3.0L		¶97x2401
BER	X	14 12 17 50.5	60.8N	20.7E	0			
BER	Probable explosion							
EIDC	**X**	**14 12 47 17.0**	**60.5N**	**21.0E**	**0**	**2.8L**		¶97x2407
EIDC	**X**	**14 13 06 54.8**	**60.9N**	**20.7E**	**0**	**2.5L**		¶97x2409
ISC	**X**	**14 13 09 14.0**±.96	**61.2N**±.13	**20.5E**±.15	**0**		**8**	**3-9**
EIDC	X	14 13 09 14.9	61.0N	20.6E	0	2.9L		¶97x2410
BER	X	14 13 09 16.1	60.9N	20.7E	0			
BER	Probable explosion							
ISC	**X**	**14 13 20 42**±1.5	**61.1N**±.22	**20.5E**±.24	**0**		**4**	**3-9**
EIDC	X	14 13 20 43.0	60.8N	20.6E	0	2.8L		¶97x2413
ISC	Poorly determined							
ISC	**X**	**15 11 56 42**±2.8	**60.3N**±.34	**22.0E**±.32	**0**		**4**	**2-9**
EIDC	X	15 11 56 39.7	59.8N	22.3E	0	2.8L		¶97x2624
ISC	Poorly determined							
ISC	**X**	**15 12 17 40**±1.7	**60.3N**±.20	**22.0E**±.19	**0**		**8**	**2-9**
EIDC	X	15 12 17 36.6	59.6N	22.4E	0	3.2L		¶97x2630
BER	X	15 12 17 40.0	59.8N	22.5E	0			
BER	Probable explosion							
ISC	**X**	**15 13 40 56**±1.7	**60.3N**±.20	**22.1E**±.19	**0**		**8**	**2-9**
EIDC	X	15 13 40 53.4	59.8N	22.6E	0	2.9L		¶97x2647
BER	X	15 13 40 55.9	59.9N	22.6E	0			
BER	Probable explosion							
ISC	**X**	**15 13 58 51**±1.8	**60.3N**±.21	**22.1E**±.20	**0**		**7**	**2-9**
BER	X	15 13 58 49.5	59.7N	22.7E	0			¶97x2649
EIDC	X	15 13 58 52.3	60.2N	22.3E	0	3.1L		
BER	Probable explosion							
EIDC	**X**	**17 15 03 23.8**	**65.7N**	**25.2E**	**0**	**2.6L**		¶97x3013
ISC	**X**	**20 11 09 48**±1.1	**63.24N**±.080	**27.4E**±.29	**0**		**8**	**2-8**
EIDC	X	20 11 09 48.4	63.1N	27.8E	0	3.3L		¶97x3490
BER	X	20 11 09 50.1	63.0N	27.9E	0			
BER	Probable explosion							
ISC	**X**	**21 10 57 18**±2.1	**60.3N**±.29	**19.3E**±.26	**0**		**4**	**3-10**
EIDC	X	21 10 57 17.9	60.0N	19.4E	0	2.7L		¶97x3641
ISC	Poorly determined							
ISC	**X**	**25 14 00 15**±2.4	**62.7N**±.21	**29.5E**±.54	**0**		**7**	**2-9**
EIDC	X	25 14 00 00.6	61.4N	32.4E	0	3.2L		¶97x4330
ISC	**X**	**27 11 50 15**±1.5	**63.1N**±.11	**27.6E**±.41	**0**		**5**	**2-8**
BER	X	27 11 50 18.0	63.0N	27.8E	0			¶97x4606
BER	Probable explosion							
ISC	**XI**	**12 11 48 35**±1.2	**63.23N**±.085	**27.7E**±.31	**0**		**8**	**2-8**
EIDC	XI	12 11 48 36.1	63.2N	27.7E	0	3.2L		¶97xi1979
BER	XI	12 11 48 37.1	63.1N	27.5E	0			
BER	Probable explosion							
BER	**XI**	**12 11 48 41.8**	**63.1N**	**27.7E**	**0**			¶97xi1980
BER	Probable explosion							
ISC	**XI**	**13 11 46 49**±1.4	**63.2N**±.12	**27.1E**±.37	**0**		**5**	**2-8**
BER	XI	13 11 46 50.9	63.1N	27.6E	0			¶97xi2128
BER	Probable explosion							
EIDC	**XI**	**14 16 02 31.9**	**65.9N**	**25.4E**	**0**	**2.7L**		¶97xi2314
ISC	**XI**	**19 08 57 17**±2.4	**60.3N**±.29	**21.9E**±.28	**0**		**5**	**2-9**
BER	XI	19 08 57 15.4	59.6N	22.6E	0			¶97xi3177
BER	Probable explosion							
ISC	**XI**	**19 11 43 14**±1.1	**63.17N**±.073	**27.1E**±.28	**0**		**8**	**2-8**
EIDC	XI	19 11 43 14.4	63.2N	27.4E	0	3.1L		¶97xi3207
BER	XI	19 11 43 17.1	63.1N	27.5E	0			
BER	Probable explosion							
ISC	**XI**	**25 11 58 55**±2.5	**60.3N**±.26	**23.9E**±.28	**0**		**8**	**2-9**
EIDC	XI	25 11 58 49.3	59.6N	24.9E	0	3.2L		¶97xi4503
BER	XI	25 11 58 50.7	59.6N	24.8E	0			
BER	Probable explosion							
ISC	**XI**	**25 12 00 38**±1.5	**60.5N**±.18	**21.9E**±.18	**0**		**8**	**2-9**
BER	XI	25 12 00 37.9	60.0N	22.3E	0			¶97xi4504
EIDC	XI	25 12 00 38.0	60.2N	22.1E	0	3.1L		
BER	Probable explosion							
ISC	**XI**	**26 10 28 17**±1.3	**60.4N**±.16	**21.9E**±.15	**0**	4.0b	**9**	**2-34**
EIDC	XI	26 10 28 16.3	59.9N	22.1E	0	3.1L,3.9b		¶97xi4671
BER	XI	26 10 28 17.5	60.0N	22.3E	0			
BER	Probable explosion							
ISC	**XI**	**26 12 23 58**±1.5	**60.4N**±.18	**21.8E**±.18	**0**		**9**	**2-9**
EIDC	XI	26 12 23 54.9	59.8N	22.3E	0	3.0L		¶97xi4681
BER	XI	26 12 23 57.0	59.9N	22.3E	0			
BER	Probable explosion							
ISC	**XI**	**27 11 27 42**±1.5	**60.4N**±.18	**21.8E**±.18	**0**		**8**	**2-9**
EIDC	XI	27 11 27 40.7	60.0N	22.2E	0	3.0L		¶97xi4847
BER	XI	27 11 27 41.1	59.9N	22.4E	0			
BER	Probable explosion							
ISC	**XI**	**28 08 59 32**±1.6	**60.4N**±.19	**21.8E**±.18	**0**		**8**	**2-9**
EIDC	XI	28 08 59 31.4	60.1N	22.1E	0	3.0L		¶97xi5044
BER	XI	28 08 59 31.8	60.0N	22.3E	0			
BER	Probable explosion							
ISC	**XI**	**28 11 42 57**±1.2	**63.07N**±.074	**27.6E**±.31	**0**		**10**	**2-8**
EIDC	XI	28 11 42 58.7	63.1N	27.9E	0	3.3L		¶97xi5078
BER	XI	28 11 43 01.1	63.1N	27.6E	0			
BER	Probable explosion							
BER	**XII**	**05 11 42 41.9**	**63.1N**	**27.6E**	**0**			¶97xii0839
BER	Probable explosion							
BER	**XII**	**05 11 57 12.9**	**63.7N**	**23.6E**	**0**			¶97xii0848
BER	Probable explosion							
ISC	**XII**	**16 14 52 51**±2.7	**60.2N**±.28	**23.4E**±.28	**0**		**9**	**2-9**
BER	XII	16 14 52 50.6	59.7N	23.9E	0			¶97xii3469
EIDC	XII	16 14 52 52.9±2.31	60.2N	23.4E	0	3.3L		
BER	Probable explosion							
EIDC	Error ellipse is semi−major=27.6km semi−minor=10.7km azimuth=159							
ISC	**XII**	**18 11 42 16**±1.2	**63.06N**±.074	**27.6E**±.29	**0**		**9**	**2-8**
EIDC	XII	18 11 42 18.7±2.09	63.1N	27.8E	0	3.5L		¶97xii3757
BER	XII	18 11 42 19.7	63.1N	27.7E	0			
EIDC	Error ellipse is semi−major=16.1km semi−minor=13.8km azimuth=81							
BER	Probable explosion							

Agency	Origin Time mo d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °
ISC	**XII 22 12 21 49.8**±.72	**61.44N**±.098	**24.7E**±.11	**0**		**10**	**1-9**
EIDC	XII 22 12 21 24.7±4.06	59.4N	28.2E	0	3.0L		¶97xii4419
BER	XII 22 12 21 25.0	59.5N	28.5E	0			
EIDC	Error ellipse is semi−major=31.4km semi−minor=15.7km azimuth=150						
BER	Probable explosion						
ISC	**XII 27 13 41 42**±2.7	**62.5N**±.18	**29.4E**±.52	**0**		**9**	**2-9**
EIDC	XII 27 13 41 35.9±5.01	61.9N	31.0E	0	3.3L		¶97xii5298
BER	XII 27 13 41 36.0	61.7N	31.2E	0			
EIDC	Error ellipse is semi−major=58.4km semi−minor=23.8km azimuth=144						
BER	Probable explosion						
ISC	**XII 30 11 44 20**±2.4	**63.2N**±.13	**27.5E**±.56	**0**		**4**	**2-8**
BER	XII 30 11 44 21.3	63.1N	27.9E	0			¶97xii5728
ISC	Poorly determined						
BER	Probable explosion						
ISC	**XII 30 12 15 15**±2.3	**60.5N**±.27	**23.7E**±.25	**0**		**8**	**1-9**
EIDC	XII 30 12 15 08.9±3.72	59.8N	24.5E	0	3.5L		¶97xii5733
BER	XII 30 12 15 12.7	59.8N	24.5E	0			
EIDC	Error ellipse is semi−major=33.0km semi−minor=14.8km azimuth=154						
BER	Probable explosion						

(722) Norway-USSR border region.

BER	**VIII 23 09 38 17.2**	**69.5N**	**31.1E**	**0**	**2.1D**		¶97viii3382
BER	Explosion						
BER	**IX 26 11 05 48.4**	**69.4N**	**30.6E**	**0**			¶97ix3966
BER	Probable explosion						
ISC	**X 03 11 13 39**±1.3	**69.42N**±.099	**29.9E**±.42	**0**		**6**	**2-12**
BER	X 03 11 13 42.6	69.4N	30.7E	0			¶97x0452
BER	Probable explosion						
EIDC	**X 17 11 11 08.2**	**69.4N**	**30.6E**	**0**	**3.0L**		¶97x2970
EIDC	**X 24 10 51 31.9**	**69.3N**	**30.7E**	**0**	**3.3L**		¶97x4151
EIDC	**XI 19 12 08 08.6**	**69.4N**	**30.9E**	**0**	3.1L		¶97xi3212
BER	**XII 05 12 16 14.2**	**69.5N**	**30.9E**	**0**	**2.7D,2.2L**		¶97xii0856
BER	Probable explosion						
ISC	**XII 10 12 21 19**±1.9	**69.31N**±.098	**31.1E**±.47	**0**		**7**	**2-12**
BER	XII 10 12 21 24.6	69.5N	30.8E	0			¶97xii2350
BER	Probable explosion						

(723) Finland-USSR border region.

ISC	**VII 02 09 33 33**±2.4	**64.7N**±.23	**30.8E**±.72	**0**		**4**	**3-10**
BER	VII 02 09 33 34.7	64.4N	31.5E	0			¶97vii0212
ISC	Poorly determined						
BER	Probable explosion						
BER	**VII 08 13 18 46.6**	**61.0N**	**28.9E**	**0**			¶97vii1193
BER	Probable explosion						
BER	**VII 09 08 03 32.1**	**61.4N**	**30.0E**	**0**			¶97vii1299
BER	Probable explosion						
BER	**VII 09 10 00 04.1**	**64.4N**	**30.7E**	**0**			¶97vii1316
BER	Probable explosion						
BER	**VII 14 16 34 27.6**	**60.8N**	**28.9E**	**0**			¶97vii2176
BER	Probable explosion						
BER	**VII 16 11 41 27.7**	**60.9N**	**28.8E**	**0**			¶97vii2437
BER	Probable explosion						
BER	**VII 16 14 42 44.6**	**61.5N**	**30.2E**	**0**			¶97vii2454
BER	Probable explosion						
EIDC	**VII 16 15 20 50.7**	**61.3N**	**30.3E**	**0**	**3.3L**		**2-16** ¶97vii2459
BER	**VII 16 16 13 41.8**	**61.2N**	**30.2E**	**0**			¶97vii2464
BER	Probable explosion						
EIDC	**VII 16 17 04 55.1**	**61.0N**	**29.7E**	**0**	3.7L		**2-15** ¶97vii2471
BER	**VII 23 08 10 03.3**	**62.1N**	**30.3E**	**0**			¶97vii3502
BER	Probable explosion						
BER	**VII 23 13 07 10.3**	**61.2N**	**29.8E**	**0**			¶97vii3533
BER	Probable explosion						
BER	**VII 25 09 00 00.4**	**64.6N**	**30.2E**	**0**			¶97vii3809
BER	Probable explosion						
ISC	**VIII 04 11 58 14**±3.7	**60.8N**±.28	**28.6E**±.40	**0**		**4**	**1-8**
BER	VIII 04 11 58 18.8	60.8N	28.6E	0			¶97viii0504
ISC	Poorly determined						
BER	Probable explosion						
BER	**VIII 21 13 19 41.2**	**61.1N**	**29.1E**	**0**			¶97viii3101
BER	Probable explosion						
ISC	**VIII 25 10 16 29**±3.9	**60.9N**±.31	**28.7E**±.42	**0**		**4**	**1-8**
BER	VIII 25 10 16 33.7	60.9N	28.9E	0			¶97viii3679
ISC	Poorly determined						
BER	Probable explosion						
ISC	**VIII 25 14 38 49**±4.0	**60.9N**±.32	**28.9E**±.43	**0**		**4**	**1-8**
BER	VIII 25 14 38 53.8	60.9N	28.9E	0			¶97viii3702
ISC	Poorly determined						
BER	Probable explosion						
BER	**VIII 28 12 44 23.8**	**61.2N**	**29.8E**	**0**			¶97viii4134
BER	Probable explosion						
ISC	**IX 04 12 14 56**±3.4	**61.1N**±.24	**29.8E**±.36	**0**		**8**	**2-9**
EIDC	IX 04 12 14 58.1	60.8N	29.8E	0	3.5L		¶97ix0583
BER	IX 04 12 15 01.1	61.1N	29.9E	0			
BER	Probable explosion						
EIDC	**IX 05 09 00 03.6**	**64.7N**	**31.0E**	**0**	**3.0L**		¶97ix0719
BER	**IX 10 10 57 11.7**	**61.9N**	**30.5E**	**0**			¶97ix1512
EIDC	IX 10 10 57 12.9	61.8N	30.2E	0	2.9L		
BER	Probable explosion						
ISC	**IX 12 09 03 48**±1.4	**64.79N**±.090	**30.1E**±.39	**0**		**8**	**3-9**
EIDC	IX 12 09 03 48.8	64.8N	30.2E	0	3.0L		¶97ix1793
BER	IX 12 09 03 50.3	64.7N	30.6E	0			
BER	Probable explosion						
EIDC	**IX 17 09 00 15.4**	**64.7N**	**30.3E**	**0**	**2.9L**		¶97ix2488
EIDC	**IX 17 09 23 53.2**	**64.7N**	**30.5E**	**0**	**2.8L**		¶97ix2493
ISC	**IX 26 10 59 58**±1.4	**64.79N**±.090	**30.0E**±.38	**0**		**8**	**3-9**
EIDC	IX 26 10 59 57.2	64.7N	30.9E	0	3.2L		¶97ix3962
BER	IX 26 11 00 00.1	64.7N	30.7E	0			
BER	Probable explosion						
EIDC	**X 01 09 00 00.1**	**64.7N**	**30.7E**	**0**	**3.0L**		¶97x0059
ISC	**X 01 11 39 25**±2.4	**60.6N**±.16	**28.4E**±.25	**0**		**8**	**1-9**
EIDC	X 01 11 39 27.8	60.6N	28.6E	0	3.3L		¶97x0075
BER	X 01 11 39 30.5	60.6N	28.5E	0			
BER	Probable explosion						
ISC	**X 02 11 31 11**±3.4	**60.7N**±.25	**28.8E**±.36	**0**		**5**	**2-9**
BER	X 02 11 31 17.2	60.8N	28.8E	0			¶97x0272
BER	Probable explosion						
ISC	**X 03 09 00 01**±1.7	**64.8N**±.12	**30.1E**±.48	**0**		**6**	**3-14**
BER	X 03 09 00 02.5	64.7N	30.9E	0			¶97x0433
BER	Probable explosion						
EIDC	**X 08 09 08 18.7**	**64.7N**	**30.7E**	**0**	3.2L		¶97x1379
EIDC	**X 10 09 00 01.5**	**64.6N**	**30.9E**	**0**	**3.0L**		¶97x1725
ISC	**X 15 11 31 43**±2.5	**60.8N**±.18	**28.7E**±.26	**0**		**8**	**1-9**
EIDC	X 15 11 31 43.3	60.8N	28.9E	0	3.7L		¶97x2618
BER	X 15 11 31 48.0	60.7N	28.7E	0			
BER	Probable explosion						
ISC	**X 16 02 14 15.6**±.78	**66.60N**±.056	**29.5E**±.21	**3**		**13**	**2-12**
EIDC	X 16 02 14 13.8	66.7N	30.8E	0	2.4L		¶97x2770
BER	X 16 02 14 18.9	66.7N	29.4E	3	3.1D,2.3L		
HEL	X 16 02 14 19	66.61N	29.33E		2.2L		
EIDC	**X 17 08 59 55.9**	**64.6N**	**30.6E**	**0**	3.1L		¶97x2951
ISC	**X 22 09 45 14**±4.9	**61.1N**±.32	**30.2E**±.60	**0**		**4**	**2-18**
EIDC	X 22 09 45 14.4	61.1N	30.5E	0	3.6L		¶97x3786
ISC	Poorly determined						
ISC	**X 22 12 28 37**±2.9	**61.0N**±.21	**29.0E**±.31	**0**		**8**	**1-9**
EIDC	X 22 12 28 39.9	60.9N	29.0E	0	3.8L		¶97x3810
BER	X 22 12 28 42.2	61.0N	29.0E	0			
BER	Probable explosion						
ISC	**X 22 12 37 43**±3.4	**60.6N**±.24	**28.9E**±.36	**0**		**5**	**2-9**
BER	X 22 12 37 47.4	60.6N	28.9E	0			¶97x3812
BER	Probable explosion						
BER	**X 23 10 42 45.9**	**61.9N**	**30.5E**	**0**			¶97x3972
BER	Probable explosion						
ISC	**X 25 12 58 08**±3.5	**61.1N**±.25	**29.9E**±.38	**0**		**8**	**2-9**
EIDC	X 25 12 58 11.1	61.2N	29.9E	0	3.4L		¶97x4326
BER	X 25 12 58 13.1	61.2N	29.9E	0			
BER	Probable explosion						
ISC	**X 31 10 00 04**±1.4	**64.74N**±.092	**30.2E**±.39	**0**		**8**	**3-9**
BER	X 31 10 00 05.6	64.6N	30.9E	0			¶97x5163
EIDC	X 31 10 00 05.6	64.7N	30.2E	0	3.2L		
BER	Probable explosion						
ISC	**XI 01 11 41 19**±2.1	**67.53N**±.083	**29.9E**±.70	**0**		**6**	**3-19**
EIDC	XI 01 11 41 21.1	67.6N	29.8E	0	2.8L		¶97xi0075
ISC	**XI 03 11 39 19**±7.6	**62.1N**±.53	**30E**±1.2	**0**		**5**	**2-9**
BER	XI 03 11 39 19.7	61.8N	31.3E	0			¶97xi0456
BER	Probable explosion						
ISC	**XI 05 11 59 54**±1.3	**64.80N**±.085	**30.0E**±.38	**0**		**9**	**3-14**
BER	XI 05 11 59 55.6	64.7N	30.9E	0			¶97xi0791
EIDC	XI 05 11 59 56.4	64.8N	29.9E	0	3.1L		
BER	Probable explosion						
ISC	**XI 05 13 54 24**±3.7	**60.9N**±.27	**28.9E**±.40	**0**		**5**	**1-9**
BER	XI 05 13 54 28.0	60.9N	29.0E	0			¶97xi0811
BER	Probable explosion						
ISC	**XI 06 09 59 51**±1.4	**64.75N**±.092	**30.2E**±.40	**0**		**8**	**3-9**
EIDC	XI 06 09 59 52.8	64.7N	30.4E	0	3.3L		¶97xi0956
BER	XI 06 09 59 53.1	64.7N	30.9E	0			
BER	Probable explosion						
ISC	**XI 06 10 06 26**±4.5	**61.1N**±.29	**29.7E**±.55	**0**		**7**	**2-9**
EIDC	XI 06 10 06 28.5	61.1N	29.9E	0	3.0L		¶97xi0958
BER	XI 06 10 06 30.5	61.2N	29.8E	0			
BER	Probable explosion						
ISC	**XI 06 10 57 38**±3.9	**61.2N**±.26	**29.8E**±.44	**0**		**7**	**2-9**
EIDC	XI 06 10 57 42.0	61.3N	29.8E	0	3.5L		¶97xi0965
BER	XI 06 10 57 43.3	61.2N	29.8E	0			
BER	Probable explosion						
ISC	**XI 11 12 32 52**±3.1	**60.8N**±.22	**28.9E**±.34	**0**		**8**	**1-9**
EIDC	XI 11 12 32 54.2	60.7N	28.9E	0	2.8L		¶97xi1788
BER	XI 11 12 32 57.3	60.8N	28.9E	0			
BER	Probable explosion						
ISC	**XI 12 10 00 11**±1.3	**64.82N**±.086	**30.0E**±.38	**0**		**9**	**3-14**
BER	XI 12 10 00 13.4	64.6N	30.7E	0			¶97xi1963
EIDC	XI 12 10 00 13.8	64.7N	29.8E	0	3.1L		
BER	Probable explosion						
ISC	**XI 14 11 00 24**±1.3	**64.86N**±.087	**29.8E**±.37	**0**		**8**	**3-9**
EIDC	XI 14 11 00 25.4	64.8N	29.9E	0	3.2L		¶97xi2280
BER	XI 14 11 00 26.7	64.7N	30.7E	0			
BER	Probable explosion						
EIDC	**XI 21 10 30 09.9**	**64.7N**	**30.3E**	**0**	**2.9L**		¶97xi3635
ISC	**XI 21 12 59 21**±2.8	**60.9N**±.20	**29.0E**±.29	**0**		**8**	**1-9**
EIDC	XI 21 12 59 23.3	60.8N	28.9E	0	3.5L		¶97xi3656
BER	XI 21 12 59 25.0	60.9N	29.0E	0			
BER	Probable explosion						
ISC	**XI 26 10 26 08**±4.0	**61.2N**±.29	**29.6E**±.49	**0**		**8**	**2-9**
EIDC	XI 26 10 26 06.8	60.8N	29.9E	0	3.5L		¶97xi4670
BER	XI 26 10 26 10.7	61.1N	29.8E	0			
BER	Probable explosion						
EIDC	**XI 28 10 00 15.7**	**64.7N**	**30.8E**	**0**	**3.0L**		¶97xi5057
ISC	**XII 03 10 00 58**±1.3	**64.80N**±.085	**29.9E**±.40	**0**		**8**	**3-14**
EIDC	XII 03 10 00 57.5±4.25	64.7N	30.6E	0	3.1L		¶97xii0402
BER	XII 03 10 01 00.4	64.7N	30.6E	0			
EIDC	Error ellipse is semi−major=57.4km semi−minor=17.5km azimuth=104						
BER	Probable explosion						
ISC	**XII 03 11 59 11**±3.4	**60.9N**±.24	**28.8E**±.31	**0**		**7**	**1-9**
EIDC	XII 03 11 59 13.8±4.40	61.1N	28.9E	0	3.4L		¶97xii0416
BER	XII 03 11 59 15.4	60.9N	28.7E	0			
EIDC	Error ellipse is semi−major=39.9km semi−minor=23.6km azimuth=154						
BER	Probable explosion						
EIDC	**XII 05 09 59 56.8**±4.52	**64.8N**	**29.8E**	**0**	**3.0L**		**4-9**
EIDC	Error ellipse is semi−major=65.1km semi−minor=16.1km azimuth=97						¶97xii0826
ISC	**XII 11 10 04 00**±1.3	**64.82N**±.085	**30.0E**±.38	**0**		**9**	**3-14**
EIDC	XII 11 10 03 58.7±4.08	64.7N	31.0E	0	3.5L		¶97xii2541
BER	XII 11 10 04 02.2	64.7N	30.7E	0			
EIDC	Error ellipse is semi−major=55.2km semi−minor=23.2km azimuth=106						
BER	Probable explosion						
EIDC	**XII 24 10 34 41.6**±4.55	**61.2N**	**28.3E**	**0**	**2.7L**		**1-8** ¶97xii4747
EIDC	Error ellipse is semi−major=38.7km semi−minor=17.7km azimuth=113						
EIDC	**XII 30 10 00 12.5**±3.98	**65.1N**	**29.4E**	**0**	**3.4L**		**4-9** ¶97xii5719
EIDC	Error ellipse is semi−major=50.4km semi−minor=20.1km azimuth=98Multiple, mixed az						

(724) Western Russia.

BER	**VII 01 10 12 14.7**	**59.4N**	**27.2E**	**0**			¶97vii0066
BER	Probable explosion						

BER	**VII 02 09 55 57.3**	**56.1N**	**23.3E**	**0**			**¶97vii0218**
BER	Probable explosion						
BER	**VII 03 11 23 46.6**	**59.4N**	**27.8E**	**0**			**¶97vii0402**
BER	Probable explosion						
BER	**VII 04 14 20 31.6**	**55.7N**	**24.1E**	**0**			**¶97vii0571**
BER	Probable explosion						
BER	**VII 10 10 49 18.1**	**59.3N**	**28.0E**	**0**			**¶97vii1500**
BER	Probable explosion						
BER	**VII 11 08 19 18.9**	**62.1N**	**34.9E**	**0**			**¶97vii1648**
BER	Probable explosion						
BER	**VII 11 14 02 51.6**	**56.4N**	**26.2E**	**0**			**¶97vii1693**
BER	Probable explosion						
BER	**VII 14 11 25 18.4**	**59.3N**	**26.9E**	**0**			**¶97vii2118**
BER	Probable explosion						
BER	**VII 14 11 49 50.0**	**59.1N**	**27.6E**	**0**			**¶97vii2121**
BER	Probable explosion						
BER	**VII 16 11 18 45.1**	**59.2N**	**27.8E**	**0**			**¶97vii2434**
BER	Probable explosion						
BER	**VII 16 11 55 27.7**	**61.0N**	**29.2E**	**0**			**¶97vii2441**
BER	Probable explosion						
BER	**VII 18 06 09 42.2**	**67.8N**	**34.0E**	**0**			**¶97vii2706**
BER	Probable explosion						
BER	**VII 19 15 59 58.3**	**56.5N**	**25.9E**	**0**			**¶97vii2910**
BER	Probable explosion						
BER	**VII 23 09 39 59.6**	**57.8N**	**28.1E**	**0**			**¶97vii3509**
BER	Probable explosion						
BER	**VII 23 11 20 33.3**	**63.0N**	**34.3E**	**0**			**¶97vii3523**
BER	Probable explosion						
BER	**VII 29 14 22 35.6**	**56.5N**	**25.9E**	**0**			**¶97vii4440**
BER	Probable explosion						
ISC	**VIII 01 11 44 28**±2.4	**67.6N**±.13	**34.4E**±.52	**0**			**5 1-12**
BER	VIII 01 11 44 32.8	67.6N	34.1E	0			**¶97viii0056**
BER	Probable explosion						
ISC	**VIII 04 09 18 13**±9.5	**58.7N**±.70	**27.8E**±.90	**0**			**4 3-9**
BER	VIII 04 09 18 25.2	59.3N	27.0E	0			**¶97viii0484**
ISC	Poorly determined						
BER	Probable explosion						
ISC	**VIII 05 11 00 45**±9.2	**58.7N**±.66	**29.3E**±.88	**0**			**4 3-9**
BER	VIII 05 11 00 57.5	59.3N	28.6E	0			**¶97viii0655**
ISC	Poorly determined						
BER	Probable explosion						
BER	**VIII 05 11 42 52.2**	**61.9N**	**34.8E**	**0**			**¶97viii0664**
BER	Probable explosion						
BER	**VIII 06 11 06 21.7**	**59.4N**	**28.4E**	**0**			**¶97viii0786**
BER	Probable explosion						
BER	**VIII 06 13 03 42.8**	**56.4N**	**26.3E**	**0**			**¶97viii0800**
BER	Probable explosion						
BER	**VIII 07 10 59 50.5**	**59.5N**	**28.3E**	**0**			**¶97viii0930**
BER	Probable explosion						
ISC	**VIII 08 10 25 41**±4.1	**61.0N**±.34	**29.0E**±.45	**0**			**4 2-9**
BER	VIII 08 10 25 46.5	61.0N	29.0E	0			**¶97viii1094**
ISC	Poorly determined						
BER	Probable explosion						
BER	**VIII 08 11 35 12.1**	**67.7N**	**33.9E**	**0**			**¶97viii1109**
BER	Probable explosion						
ISC	**VIII 10 06 30 32**±2.5	**67.8N**±.11	**35.3E**±.52	**0**			**7 1-12**
BER	VIII 10 06 30 40.4	67.9N	34.4E	0			**¶97viii1361**
BER	Probable explosion						
BER	**VIII 12 09 58 14.1**	**61.6N**	**31.1E**	**0**			**¶97viii1718**
BER	Probable explosion						
BER	**VIII 12 13 01 36.3**	**60.7N**	**34.9E**	**0**			**¶97viii1753**
BER	Probable explosion						
BER	**VIII 13 11 00 02.2**	**64.5N**	**31.7E**	**0**			**¶97viii1894**
BER	Probable explosion						
BER	**VIII 13 11 10 48.3**	**61.0N**	**29.1E**	**0**			**¶97viii1896**
BER	Probable explosion						
BER	**VIII 13 15 57 44.6**	**56.5N**	**25.9E**	**0**			**¶97viii1934**
BER	Probable explosion						
ISC	**VIII 14 08 32 13**±1.1	**60.9N**±.16	**46.6E**±.22	**33**	**3.5b**		**9 10-26**
EIDC	VIII 14 08 32 16.0	60.9N	46.8E	68	3.3b		**¶97viii2027**
ISC	**VIII 15 16 20 02**±1.9	**60.9N**±.14	**29.8E**±.28	**0**			**7 2-15**
EIDC	VIII 15 16 20 09.9	60.7N	29.0E	0	3.2L		**¶97viii2236**
BER	VIII 15 16 20 10.1	61.2N	29.4E	0			
BER	Probable explosion						
BER	**VIII 18 12 18 51.1**	**57.4N**	**26.3E**	**0**			**¶97viii2676**
BER	Probable explosion						
BER	**VIII 20 10 44 05.2**	**60.9N**	**29.0E**	**0**			**¶97viii2943**
BER	Probable explosion						
BER	**VIII 22 11 41 10.7**	**67.7N**	**33.9E**	**0**			**¶97viii3215**
BER	Probable explosion						
ISC	**VIII 26 10 06 15**±9.6	**58.5N**±.70	**28.6E**±.89	**0**			**4 3-9**
BER	VIII 26 10 06 29.0	59.3N	27.7E	0			**¶97viii3831**
ISC	Poorly determined						
BER	Probable explosion						
BER	**VIII 26 16 02 01.9**	**56.5N**	**26.1E**	**0**			**¶97viii3873**
BER	Probable explosion						
EIDC	**VIII 27 09 34 29.6**	**59.4N**	**29.8E**	**0**	3.0L		**3-14**
							¶97viii3967
BER	**VIII 29 08 59 58.8**	**64.5N**	**31.1E**	**0**			**¶97viii4259**
BER	Probable explosion						
ISC	**VIII 29 16 51 19**±3.5	**60.7N**±.26	**29.1E**±.37	**0**			**5 2-9**
BER	VIII 29 16 51 23.6	60.7N	29.1E	0			**¶97viii4348**
BER	Probable explosion						
BER	**VIII 31 06 57 36.9**	**67.9N**	**34.4E**	**0**	**3.7D**		**¶97viii4603**
BER	Probable explosion						
ISC	**VIII 31 14 31 31**±1.1	**67.8N**±.13	**34.1E**±.33	**0**	3.2b		**6 4-48**
EIDC	VIII 31 14 31 32.7	67.8N	34.4E	0	3.4L,3.1b		**¶97viii4667**
EIDC	**IX 05 09 05 14.6**	**61.4N**	**35.6E**	**0**	**3.4L**		**¶97ix0723**
ISC	**IX 05 10 37 27**±1.8	**67.66N**±.082	**34.6E**±.42	**0**			**9 1-12**
EIDC	IX 05 10 37 31.9	67.7N	34.0E	0	3.3L		**¶97ix0735**
BER	IX 05 10 37 32.9	67.6N	33.9E	0			
BER	Probable explosion						
EIDC	**IX 06 22 29 57.0**	**51.9N**	**28.0E**	**0**	**3.3L**		**¶97ix0975**
BER	**IX 09 14 18 56.6**	**59.8N**	**25.5E**	**0**			**¶97ix1391**
BER	Probable explosion						
BER	**IX 10 14 16 37.7**	**56.4N**	**26.3E**	**0**			**¶97ix1529**
BER	Probable explosion						
EIDC	**IX 12 11 08 55.6**	**60.9N**	**29.4E**	**0**	**3.1L**		**¶97ix1806**
ISC	**IX 14 03 36 54**±2.0	**67.60N**±.082	**34.6E**±.45	**0**			**9 1-12**
BER	IX 14 03 37 00.9	67.7N	33.8E	0			**¶97ix2065**
EIDC	IX 14 03 37 02.6	67.5N	33.1E	0	3.2L		
BER	Probable explosion						
EIDC	**IX 14 06 09 36.2**	**57.3N**	**23.9E**	**0**	**3.5L**		**¶97ix2082**
BER	**IX 15 09 31 38.3**	**57.1N**	**24.1E**	**0**			**¶97ix2223**
EIDC	IX 15 09 31 37.0	57.1N	24.0E	0	3.2L		
BER	Probable explosion						
EIDC	**IX 15 10 57 20.1**	**59.3N**	**26.9E**	**0**	**2.9L**		**¶97ix2232**
EIDC	**IX 15 11 43 40.0**	**57.4N**	**24.0E**	**0**	**3.5L**		**¶97ix2238**
BER	IX 15 11 43 35.6	56.9N	24.3E	0			
BER	Probable explosion						
ISC	**IX 15 15 05 43**±1.5	**57.7N**±.12	**23.3E**±.24	**0**			**7 4-11**
BER	IX 15 15 05 37.6	57.0N	24.1E	0			**¶97ix2257**
EIDC	IX 15 15 05 43.6	57.5N	23.8E	0	3.3L		
BER	Probable explosion						
ISC	**IX 15 19 40 47**±2.2	**56.9N**±.16	**23.6E**±.46	**0**			**4 5-13**
EIDC	IX 15 19 40 49.1	57.0N	23.7E	0	3.3L		**¶97ix2276**
ISC	Poorly determined						
EIDC	**IX 15 20 46 17.8**	**57.1N**	**23.9E**	**0**	**3.2L**		**¶97ix2284**
EIDC	**IX 15 22 15 59.0**	**57.2N**	**23.7E**	**0**	**3.2L**		**¶97ix2290**
EIDC	**IX 16 06 54 23.9**	**57.2N**	**23.8E**	**0**	**3.2L**		**¶97ix2346**
ISC	**IX 16 08 32 55**±1.8	**56.9N**±.13	**24.3E**±.31	**0**			**6 5-13**
BER	IX 16 08 33 00.3	56.9N	24.2E	0			**¶97ix2352**
BER	Probable explosion						
BER	**IX 16 11 55 22.9**	**56.9N**	**24.3E**	**0**			**¶97ix2379**
EIDC	IX 16 11 55 26.6	57.3N	23.8E	0	3.2L		
BER	Probable explosion						
BER	**IX 16 13 51 38.3**	**56.5N**	**26.2E**	**0**			**¶97ix2395**
BER	Probable explosion						
EIDC	**IX 16 17 46 26.0**	**57.2N**	**23.9E**	**0**	**3.3L**		**¶97ix2413**
BER	**IX 17 15 10 57.6**	**67.6N**	**33.9E**	**0**			**¶97ix2525**
BER	Probable explosion						
BER	**IX 18 09 15 54.8**	**56.3N**	**22.8E**	**0**			**¶97ix2637**
BER	Probable explosion						
ISC	**IX 18 12 34 31**±3.8	**60.8N**±.24	**29.3E**±.44	**0**			**7 2-9**
EIDC	IX 18 12 34 29.6	60.6N	29.7E	0	3.6L		**¶97ix2656**
BER	IX 18 12 34 37.3	60.9N	29.1E	0			
BER	Probable explosion						
EIDC	**IX 19 07 57 55.4**	**61.7N**	**34.5E**	**0**	**3.1L**		**¶97ix2760**
EIDC	**IX 19 07 59 04.3**	**52.5N**	**33.8E**	**0**	**3.6L**		**¶97ix2761**
ISC	**IX 19 10 48 49**±3.2	**60.9N**±.21	**29.0E**±.35	**0**			**7 2-9**
EIDC	IX 19 10 48 51.8	60.9N	29.0E	0	3.4L		**¶97ix2783**
BER	IX 19 10 48 54.4	61.0N	29.0E	0			
BER	Probable explosion						
ISC	**IX 21 03 12 53**±2.0	**67.67N**±.084	**34.4E**±.45	**0**			**9 1-12**
BER	IX 21 03 12 58.6	67.7N	33.9E	0			**¶97ix3035**
EIDC	IX 21 03 12 59.7	67.6N	33.4E	0	3.0L		
BER	Probable explosion						
BER	**IX 22 09 23 32.8**	**55.1N**	**30.4E**	**0**			**¶97ix3256**
BER	Probable explosion						
BER	**IX 22 12 34 30.7**	**59.3N**	**28.0E**	**0**			**¶97ix3279**
BER	Probable explosion						
BER	**IX 23 12 11 26.6**	**59.2N**	**27.6E**	**0**			**¶97ix3414**
BER	Probable explosion						
ISC	**IX 23 12 47 25**±2.8	**60.9N**±.20	**29.0E**±.29	**0**			**9 2-18**
EIDC	IX 23 12 47 29.2	61.1N	28.9E	0	3.6L		**¶97ix3422**
BER	IX 23 12 47 29.3	60.9N	29.0E	0			
BER	Probable explosion						
ISC	**IX 24 09 30 51**±1.7	**59.0N**±.10	**28.0E**±.33	**0**			**8 3-13**
BER	IX 24 09 30 57.0	59.1N	27.7E	0			**¶97ix3561**
BER	Probable explosion						
BER	**IX 24 10 01 27.0**	**56.3N**	**23.1E**	**0**			**¶97ix3564**
BER	Probable explosion						
BER	**IX 24 14 13 01.8**	**56.5N**	**26.0E**	**0**			**¶97ix3589**
BER	Probable explosion						
EIDC	**IX 25 10 47 17.2**	**59.4N**	**27.6E**	**0**	2.7L		**¶97ix3725**
ISC	**IX 26 11 53 33**±10	**58.3N**±.62	**30E**±1.0	**0**			**7 4-11**
BER	IX 26 11 53 54.8	59.4N	28.3E	0			**¶97ix3980**
EIDC	IX 26 11 53 56.5	59.5N	27.9E	0	3.0L		
BER	Probable explosion						
BER	**IX 28 08 06 36.3**	**67.7N**	**33.7E**	**0**			**¶97ix4588**
BER	Probable explosion						
BER	**IX 29 09 29 23.4**	**55.2N**	**30.8E**	**0**			**¶97ix4919**
BER	Probable explosion						
EIDC	**IX 29 11 00 25.5**	**59.4N**	**28.7E**	**0**	**3.3L**		**¶97ix4931**
BER	**IX 30 15 24 21.4**	**67.6N**	**33.8E**	**0**			**¶97ix5261**
BER	Probable explosion						
BER	**X 01 10 39 57.1**	**59.4N**	**25.6E**	**0**			**¶97x0072**
BER	Probable explosion						
ISC	**X 02 08 00 31**±4.6	**50.5N**±.54	**37.8E**±.44	**0**	4.0b		**6 5-29**
EIDC	X 02 08 00 32.7	50.3N	38.0E	0	3.7b,4.1L		**¶97x0238**
EIDC	LO CONF Location						
ISC	**X 03 08 17 22**±5.2	**59.5N**±.23	**40.0E**±.75	**0**			**8 7-17**
EIDC	X 03 08 17 55.3	61.1N	36.1E	0	3.4L		**¶97x0423**
BER	X 03 08 18 06.3	61.4N	34.6E	0			
BER	Probable explosion						
ISC	**X 03 09 29 54**±1.8	**57.4N**±.14	**22.1E**±.33	**0**			**4 5-10**
EIDC	X 03 09 29 57.1	57.4N	22.0E	0	3.0L		**¶97x0438**
ISC	Poorly determined						
BER	**X 04 13 43 41.3**	**56.6N**	**26.1E**	**0**			**¶97x0655**
BER	Probable explosion						
EIDC	**X 08 08 41 08.8**	**63.1N**	**34.1E**	**0**	**3.2L**		**¶97x1376**
ISC	**X 08 11 43 35**±2.3	**67.6N**±.10	**34.6E**±.48	**0**			**7 1-12**
BER	X 08 11 43 41.4	67.6N	33.9E	0	2.8D,2.3L		**¶97x1406**
BER	Probable explosion						
ISC	**X 08 13 13 46**±4.7	**60.9N**±.30	**29.1E**±.54	**0**			**4 2-9**
BER	X 08 13 13 51.0	60.8N	29.1E	0			**¶97x1423**
ISC	Poorly determined						
BER	Probable explosion						
BER	**X 09 08 32 01.3**	**55.6N**	**31.9E**	**0**			**¶97x1558**
BER	Probable explosion						
BER	**X 10 09 49 38.5**	**61.4N**	**35.1E**	**0**			**¶97x1731**
EIDC	X 10 09 49 33.1	61.2N	35.5E	0	3.3L		
BER	Probable explosion						
BER	**X 10 11 35 44.5**	**59.2N**	**28.0E**	**0**			**¶97x1745**
BER	Probable explosion						
ISC	**X 12 03 37 21**±2.0	**67.62N**±.076	**34.5E**±.43	**0**			**12 1-12**
BER	X 12 03 37 25.8	67.7N	34.3E	0	3.4D,3.0L		**¶97x1981**
EIDC	X 12 03 37 30.2	67.5N	32.9E	0	3.4L		
BER	Probable explosion						
BER	**X 13 11 48 21.1**	**57.2N**	**25.6E**	**0**			**¶97x2211**
BER	Probable explosion						

Agency	mo	Origin Time d h m s	φ °	λ °	h km	Mag	n	Δ-Rng °	
BER	**X**	**14 13 45 39.0**	**57.2N**	**26.9E**	**0**				**¶97x2415**
BER	Probable explosion								
ISC	**X**	**14 14 25 35**±3.8	**60.9N**±.24	**29.1E**±.44	**0**			**7**	**2-9**
EIDC	X	14 14 25 38.3	60.9N	29.1E	0	3.1L			¶97x2423
BER	X	14 14 25 40.2	61.0N	29.0E	0				
BER	Probable explosion								
EIDC	**X**	**15 11 45 26.8**	**59.8N**	**22.2E**	**0**	**2.9L**			**¶97x2620**
EIDC	**X**	**15 12 35 25.1**	**59.4N**	**22.4E**	**0**	**2.8L**			**¶97x2633**
EIDC	**X**	**15 13 26 00.9**	**59.8N**	**22.4E**	**0**	**2.8L**			**¶97x2645**
ISC	**X**	**16 11 01 06**±8.1	**58.8N**±.57	**29.7E**±.79	**0**			**6**	**3-11**
BER	X	16 11 01 19.5	59.4N	28.8E	0				¶97x2826
BER	Probable explosion								
ISC	**X**	**17 08 11 27**±7.0	**58.4N**±.47	**29.0E**±.66	**0**			**8**	**3-11**
BER	X	17 08 11 42.6	59.2N	27.9E	0				¶97x2946
EIDC	X	17 08 11 44.6	59.3N	27.6E	0	2.7L			
BER	Probable explosion								
BER	**X**	**17 13 02 03.4**	**67.7N**	**33.8E**	**0**	**2.9D**			**¶97x2990**
BER	Probable explosion								
ISC	**X**	**19 07 10 53**±2.2	**67.5N**±.10	**34.7E**±.48	**0**			**8**	**1-12**
BER	X	19 07 11 00.8	67.7N	33.8E	0	2.7D			¶97x3307
BER	Probable explosion								
BER	**X**	**20 12 28 25.5**	**67.7N**	**33.8E**	**0**				**¶97x3496**
BER	Probable explosion								
BER	**X**	**20 13 52 12.5**	**56.6N**	**26.0E**	**0**				**¶97x3511**
BER	Probable explosion								
BER	**X**	**21 11 00 52.9**	**59.6N**	**26.0E**	**0**				**¶97x3644**
BER	Probable explosion								
EIDC	**X**	**22 11 35 59.1**	**59.4N**	**28.2E**	**0**	3.2L			**¶97x3804**
EIDC	**X**	**22 12 05 48.9**	**61.0N**	**30.5E**	**0**	2.2L			**¶97x3806**
BER	**X**	**22 12 57 09.1**	**59.4N**	**25.3E**	**0**				**¶97x3816**
BER	Probable explosion								
BER	**X**	**23 14 18 28.3**	**67.6N**	**34.0E**	**0**	**3.0D**			**¶97x4014**
BER	Probable explosion								
EIDC	**X**	**24 09 00 05.3**	**64.7N**	**31.2E**	**0**	**3.0L**			**¶97x4134**
EIDC	**X**	**24 10 35 40.5**	**67.9N**	**31.6E**	**0**	**3.1L**			**¶97x4149**
ISC	**X**	**24 12 29 53**±6.9	**58.4N**±.47	**29.1E**±.65	**0**			**9**	**3-11**
BER	X	24 12 30 08.5	59.2N	28.1E	0				¶97x4166
EIDC	X	24 12 30 09.2	59.3N	27.8E	0	3.1L			
BER	Probable explosion								
BER	**X**	**29 11 24 14.8**	**59.4N**	**27.2E**	**0**				**¶97x4897**
BER	Probable explosion								
ISC	**X**	**29 12 15 54**±6.6	**58.6N**±.45	**29.6E**±.64	**0**			**8**	**3-11**
EIDC	X	29 12 16 08.7	59.4N	28.5E	0	3.2L			¶97x4908
BER	X	29 12 16 09.2	59.4N	28.5E	0				
BER	Probable explosion								
ISC	**X**	**29 12 54 34**±1.9	**56.9N**±.13	**23.3E**±.33	**0**			**5**	**5-13**
BER	X	29 12 54 36.7	56.8N	23.6E	0				¶97x4912
BER	Probable explosion								
BER	**X**	**30 12 59 52.4**	**60.8N**	**29.1E**	**0**				**¶97x5040**
BER	Probable explosion								
BER	**X**	**31 13 28 50.8**	**56.1N**	**26.2E**	**0**				**¶97x5190**
BER	Probable explosion								
ISC	**XI**	**04 11 10 35**±2.3	**67.5N**±.11	**34.8E**±.50	**0**			**6**	**1-12**
BER	XI	04 11 10 42.2	67.5N	33.9E	0				¶97xi0623
BER	Probable explosion								
BER	**XI**	**06 08 42 34.6**	**67.6N**	**33.9E**	**0**	**2.3L**			**¶97xi0950**
BER	Probable explosion								
ISC	**XI**	**06 13 10 04**±2.8	**60.9N**±.20	**29.0E**±.29	**0**			**8**	**2-9**
EIDC	XI	06 13 10 06.0	61.0N	29.2E	0	3.5L			¶97xi0982
BER	XI	06 13 10 08.9	60.9N	29.0E	0				
BER	Probable explosion								
BER	**XI**	**07 13 23 20.8**	**56.5N**	**26.0E**	**0**				**¶97xi1128**
EIDC	XI	07 13 23 20.6	56.6N	25.8E	0	3.2L			
BER	Probable explosion								
ISC	**XI**	**10 10 29 43**±8.5	**67.7N**±.20	**33E**±2.0	**0**			**4**	**3-12**
EIDC	XI	10 10 29 42.2	67.8N	34.1E	0	3.4L			¶97xi1600
ISC	Poorly determined								
BER	**XI**	**12 10 45 01.4**	**56.4N**	**23.0E**	**0**				**¶97xi1969**
BER	Probable explosion								
ISC	**XI**	**14 12 05 51**±8.3	**58.8N**±.59	**28.7E**±.80	**0**			**5**	**3-11**
BER	XI	14 12 06 01.1	59.2N	28.0E	0				¶97xi2286
BER	Probable explosion								
ISC	**XI**	**14 12 50 48**±2.9	**67.8N**±.13	**34.2E**±.64	**0**			**4**	**1-12**
BER	XI	14 12 50 53.4	67.8N	33.7E	0				¶97xi2291
ISC	Poorly determined								
BER	Probable explosion								
BER	**XI**	**14 14 09 07.3**	**59.4N**	**25.4E**	**0**				**¶97xi2296**
BER	Probable explosion								
EIDC	**XI**	**15 12 46 32.5**	**68.0N**	**32.0E**	**0**	**2.8L**			**¶97xi2473**
ISC	**XI**	**19 12 50 53**±3.5	**60.3N**±.24	**29.3E**±.36	**0**			**5**	**2-9**
BER	XI	19 12 50 59.9	60.5N	29.1E	0				¶97xi3222
BER	Probable explosion								
BER	**XI**	**19 13 45 10.9**	**56.5N**	**26.1E**	**0**				**¶97xi3233**
BER	Probable explosion								
ISC	**XI**	**21 08 35 38**±2.6	**67.7N**±.12	**34.8E**±.53	**0**			**5**	**1-12**
BER	XI	21 08 35 44.5	67.7N	34.0E	0				¶97xi3625
BER	Probable explosion								
ISC	**XI**	**21 11 18 46**±2.9	**61.0N**±.21	**29.1E**±.31	**0**			**8**	**2-9**
EIDC	XI	21 11 18 49.1	61.0N	29.0E	0	3.4L			¶97xi3640
BER	XI	21 11 18 51.4	61.0N	29.0E	0				
BER	Probable explosion								
ISC	**XI**	**21 11 25 30**±6.8	**62.8N**±.41	**32E**±1.2	**0**			**5**	**3-10**
BER	XI	21 11 25 22.8	62.2N	34.8E	0				¶97xi3642
BER	Probable explosion								
BER	**XI**	**21 12 27 06.4**	**67.6N**	**33.9E**	**0**				**¶97xi3651**
BER	Probable explosion								
ISC	**XI**	**21 12 36 09**±6.4	**62.4N**±.37	**32E**±1.1	**0**			**8**	**3-10**
EIDC	XI	21 12 35 55.6	61.7N	35.0E	0	3.4L			¶97xi3655
BER	XI	21 12 35 57.9	61.5N	34.8E	0				
BER	Probable explosion								
ISC	**XI**	**24 11 27 17**±7.0	**58.4N**±.47	**29.1E**±.66	**0**			**8**	**3-11**
BER	XI	24 11 27 31.9	59.2N	28.1E	0				¶97xi4308
EIDC	XI	24 11 27 33.6	59.3N	27.4E	0	3.1L			
BER	Probable explosion								
BER	**XI**	**25 11 50 44.3**	**59.3N**	**27.9E**	**0**				**¶97xi4501**
BER	Probable explosion								
ISC	**XI**	**25 13 09 43**±3.4	**61.0N**±.24	**29.1E**±.38	**0**			**8**	**2-9**
EIDC	XI	25 13 09 47.4	61.1N	28.9E	0	3.6L			¶97xi4517
BER	XI	25 13 09 47.9	61.0N	29.0E	0				
BER	Probable explosion								
BER	**XI**	**26 10 15 38.7**	**56.2N**	**23.0E**	**0**				**¶97xi4669**
EIDC	XI	26 10 14 36.6	51.6N	25.3E	0	3.5L			
BER	Probable explosion								
ISC	**XI**	**26 11 21 37**±2.8	**68.21N**±.088	**34.3E**±.72	**0**			**7**	**1-12**
BER	XI	26 11 21 44.7	68.1N	33.2E	0				¶97xi4675
BER	Probable explosion								
EIDC	**XI**	**27 11 06 35.7**	**59.3N**	**26.9E**	**0**	2.7L			**¶97xi4845**
EIDC	**XI**	**27 12 28 02.3**	**60.8N**	**29.1E**	**0**	3.7L			**¶97xi4857**
ISC	**XI**	**28 09 20 29**±2.4	**67.6N**±.11	**34.8E**±.51	**0**			**6**	**1-12**
BER	XI	28 09 20 37.2	67.7N	34.0E	0				¶97xi5051
BER	Probable explosion								
EIDC	**XI**	**28 13 23 04.5**	**59.4N**	**27.7E**	**0**	**2.9L**			**¶97xi5090**
ISC	**XII**	**01 08 55 17**±8.2	**58.8N**±.59	**28.6E**±.80	**0**			**5**	**3-11**
BER	XII	01 08 55 27.5	59.2N	28.1E	0				¶97xii0055
BER	Probable explosion								
ISC	**XII**	**01 12 39 58**±2.4	**67.7N**±.12	**34.4E**±.49	**0**			**6**	**1-12**
BER	XII	01 12 40 03.7	67.6N	33.9E	0				¶97xii0086
BER	Probable explosion								
BER	**XII**	**01 12 40 13.0**	**67.7N**	**34.0E**	**0**				**¶97xii0087**
BER	Probable explosion								
ISC	**XII**	**01 12 45 20**±2.3	**67.6N**±.10	**34.7E**±.48	**0**			**7**	**1-12**
BER	XII	01 12 45 27.0	67.7N	33.9E	0				¶97xii0088
BER	Probable explosion								
EIDC	**XII**	**02 12 03 17.3**±4.35	**59.3N**	**27.0E**	**0**	2.8L			**2-10**
									¶97xii0239
EIDC	Error ellipse is semi-major=33.3km semi-minor=19.7km azimuth=158								
ISC	**XII**	**02 12 36 16**±7.3	**58.5N**±.49	**29.8E**±.66	**0**			**7**	**3-11**
BER	XII	02 12 36 31.4	59.3N	28.6E	0				¶97xii0246
EIDC	XII	02 12 36 31.5±4.61	59.3N	28.3E	0	3.2L			
BER	Probable explosion								
EIDC	Error ellipse is semi-major=34.5km semi-minor=15.8km azimuth=151								
EIDC	**XII**	**02 12 41 09.2**±4.60	**59.5N**	**28.5E**	**0**	**2.8L**			**2-10**
									¶97xii0247
EIDC	Error ellipse is semi-major=33.7km semi-minor=17.8km azimuth=145								
BER	**XII**	**02 14 02 15.3**	**57.7N**	**28.2E**	**0**				**¶97xii0261**
BER	Probable explosion								
BER	**XII**	**03 11 08 53.2**	**56.2N**	**22.9E**	**0**				**¶97xii0409**
EIDC	XII	03 11 08 54.4±6.20	56.4N	22.9E	0	3.1L			
BER	Probable explosion								
EIDC	Error ellipse is semi-major=53.4km semi-minor=29.6km azimuth=162								
EIDC	**XII**	**04 10 50 35.3**±3.49	**68.0N**	**32.2E**	**0**	**3.0L**			**3-11**
									¶97xii0601
EIDC	Error ellipse is semi-major=28.6km semi-minor=17.6km azimuth=103								
ISC	**XII**	**04 12 14 35**±3.8	**63.4N**±.20	**32.9E**±.78	**0**			**9**	**4-16**
EIDC	XII	04 12 14 32.9±4.58	63.2N	34.0E	0	3.1L			¶97xii0610
EIDC	Error ellipse is semi-major=41.8km semi-minor=20.8km azimuth=115								
BER	**XII**	**04 14 47 32.0**	**55.3N**	**30.8E**	**0**				**¶97xii0633**
BER	Probable explosion								
ISC	**XII**	**05 08 28 04**±2.0	**67.59N**±.082	**34.8E**±.44	**0**			**9**	**1-12**
BER	XII	05 08 28 10.2	67.7N	34.4E	0	2.7L			¶97xii0812
EIDC	XII	05 08 28 13.5±6.06	67.6N	33.1E	0	3.1L			
BER	Probable explosion								
EIDC	Error ellipse is semi-major=64.4km semi-minor=19.2km azimuth=77								
BER	**XII**	**05 12 50 17.4**	**67.7N**	**33.7E**	**0**	**2.3L**			**¶97xii0871**
BER	Probable explosion								
ISC	**XII**	**05 14 01 58**±4.9	**61.0N**±.32	**29.1E**±.57	**0**			**4**	**2-9**
BER	XII	05 14 02 02.4	61.0N	29.1E	0				¶97xii0892
ISC	Poorly determined								
BER	Probable explosion								
EIDC	**XII**	**06 09 33 01.0**±4.07	**68.1N**	**33.2E**	**0**	**3.1L**			**3-12**
									¶97xii1334
EIDC	Error ellipse is semi-major=45.5km semi-minor=22.5km azimuth=102								
EIDC	**XII**	**08 12 30 00.0**±5.03	**59.4N**	**27.2E**	**0**	3.1L			**2-10**
									¶97xii1926
EIDC	Error ellipse is semi-major=36.9km semi-minor=24.8km azimuth=139								
BER	**XII**	**08 13 15 33.1**	**55.7N**	**24.0E**	**0**				**¶97xii1930**
BER	Probable explosion								
BER	**XII**	**09 13 25 28.0**	**57.5N**	**25.6E**	**0**				**¶97xii2174**
BER	Probable explosion								
BER	**XII**	**10 11 34 33.9**	**59.2N**	**26.8E**	**0**				**¶97xii2338**
BER	Probable explosion								
EIDC	**XII**	**11 09 33 44.2**±7.50	**61.0N**	**29.2E**	**0**	3.4L			**2-15**
									¶97xii2536
EIDC	Error ellipse is semi-major=62.9km semi-minor=20.8km azimuth=103								
ISC	**XII**	**11 14 37 28**±2.3	**67.6N**±.10	**35.0E**±.49	**0**			**7**	**1-12**
BER	XII	11 14 37 36.0	67.7N	34.1E	0				¶97xii2582
BER	Probable explosion								
ISC	**XII**	**13 04 16 16**±2.0	**67.58N**±.077	**34.7E**±.44	**0**			**11**	**1-12**
BER	XII	13 04 16 23.8	67.7N	33.9E	0				¶97xii2883
EIDC	XII	13 04 16 25.2±3.60	67.6N	33.3E	0	3.2L			
BER	Probable explosion								
EIDC	Error ellipse is semi-major=31.3km semi-minor=16.9km azimuth=94								
ISC	**XII**	**13 06 55 34**±2.4	**67.6N**±.11	**34.6E**±.49	**0**			**8**	**1-12**
BER	XII	13 06 55 41.3	67.7N	33.7E	0				¶97xii2906
BER	Probable explosion								
BER	**XII**	**15 12 23 32.7**	**59.1N**	**27.9E**	**0**				**¶97xii3283**
BER	Probable explosion								
BER	**XII**	**16 12 30 29.8**	**67.5N**	**34.1E**	**0**				**¶97xii3449**
BER	Probable explosion								
EIDC	**XII**	**18 10 09 48.8**	**51.1N**	**38.8E**	**0**	**3.5L**			**13-20**
									¶97xii3747
EIDC	Origin time error = 18.68Error ellipse is semi-major=241.6km semi-minor=80.8km azimuth=162LO CONF Location								
EIDC	**XII**	**18 13 59 52.9**±4.62	**63.0N**	**34.0E**	**0**	**3.1L**			**4-11**
									¶97xii3775
EIDC	Error ellipse is semi-major=43.1km semi-minor=21.9km azimuth=112								
BER	**XII**	**19 09 42 28.6**	**67.7N**	**33.9E**	**0**				**¶97xii3924**
BER	Probable explosion								
BER	**XII**	**19 12 00 09.1**	**59.5N**	**28.3E**	**0**				**¶97xii3951**
BER	Probable explosion								
ISC	**XII**	**19 12 30 18**±3.8	**60.9N**±.25	**29.1E**±.45	**0**			**7**	**2-9**
EIDC	XII	19 12 30 20.6±4.16	60.8N	28.9E	0	3.4L			¶97xii3959
BER	XII	19 12 30 23.7	61.0N	28.9E	0				
EIDC	Error ellipse is semi-major=30.9km semi-minor=21.4km azimuth=133								
BER	Probable explosion								
BER	**XII**	**19 13 06 46.8**	**67.6N**	**33.6E**	**0**				**¶97xii3968**
BER	Probable explosion								
ISC	**XII**	**21 04 59 19**±1.1	**67.42N**±.068	**32.7E**±.26	**0**			**14**	**0-11**
EIDC	XII	21 04 59 19.1±3.11	67.5N	33.3E	0	3.5L			¶97xii4216
BER	XII	21 04 59 19.9	67.6N	33.8E	0	3.1L			

EIDC Error ellipse is semi−major=27.8km semi−minor=15.7km azimuth=89
BER Probable explosion
ISC XII 22 11 04 53±3.1 **59.6N**±.20 **27.7E**±.36 **0** **8 2-10**
BER XII 22 11 04 53.1 59.2N 28.0E 0 **¶97xii4411**
EIDC XII 22 11 04 54.8±7.53 59.5N 27.8E 0 3.2L
BER Probable explosion
EIDC Error ellipse is semi−major=67.4km semi−minor=25.5km azimuth=151
EIDC XII 23 10 30 25.3±4.57 **59.4N** **27.5E** **0** **2.7L** **2-10**
¶97xii4582

EIDC Error ellipse is semi−major=34.0km semi−minor=22.2km azimuth=152
EIDC XII 24 09 59 57.4±3.66 **64.6N** **31.5E** **0** **2.9L** **4-10**
EIDC Error ellipse is semi−major=39.1km semi−minor=20.8km azimuth=95 **¶97xii4741**
EIDC XII 24 12 02 32.4±4.77 **59.4N** **27.5E** **0** 3.2L **2-8**
¶97xii4754

EIDC Error ellipse is semi−major=33.8km semi−minor=19.6km azimuth=144
ISC XII 25 12 02 15±1.2 **67.89N**±.088 **32.1E**±.25 **0** **12 0-11**
EIDC XII 25 12 02 14.6±4.26 67.9N 32.9E 0 3.1L **¶97xii4924**
BER XII 25 12 02 16.5 68.1N 32.9E 0 2.8D
EIDC Error ellipse is semi−major=46.6km semi−minor=23.4km azimuth=96
BER Probable explosion
EIDC XII 26 08 35 42.6±4.04 **67.6N** **33.2E** **0** **3.2L** **3-12**
EIDC Error ellipse is semi−major=38.5km semi−minor=18.0km azimuth=85 **¶97xii5086**
EIDC XII 26 09 17 09.4±4.08 **68.0N** **32.9E** **0** **3.1L** **3-12**
EIDC Error ellipse is semi−major=36.9km semi−minor=18.7km azimuth=83 **¶97xii5094**
EIDC XII 26 13 46 48.7 **63.0N** **37.4E** **0** **3.2L** **6-12**
¶97xii5135

EIDC Origin time error = 11.82Error ellipse is semi−major=135.0km semi−minor=43.0km azimuth=109
ISC XII 27 04 26 09±3.9 **67.6N**±.16 **34.0E**±.75 **0** **4 0-7**
BER XII 27 04 26 13.4 67.7N 33.7E 0 **¶97xii5244**

ISC Poorly determined
BER Probable explosion
EIDC XII 29 12 10 02.8±3.90 **59.4N** **28.0E** **0** **2.9L** **2-10**
¶97xii5582

EIDC Error ellipse is semi−major=29.6km semi−minor=13.9km azimuth=151
ISC XII 29 12 50 32±3.1 **61.0N**±.20 **29.1E**±.35 **0** **8 2-9**
EIDC XII 29 12 50 36.1±3.64 61.0N 29.0E 0 3.7L **¶97xii5584**
BER XII 29 12 50 37.4 61.0N 29.0E 0
EIDC Error ellipse is semi−major=28.5km semi−minor=17.4km azimuth=128
BER Probable explosion
EIDC XII 29 15 08 33.6 **50.9N** **28.8E** **0** **3.3L** **11-19**
¶97xii5602

EIDC Origin time error = 10.09Error ellipse is semi−major=117.4km semi−minor=102.2km azimuth=120LO CONF Location
EIDC XII 30 09 13 27.7±6.06 **61.7N** **34.6E** **0** **3.1L** **4-11**
¶97xii5711

EIDC Error ellipse is semi−major=56.2km semi−minor=31.9km azimuth=132
EIDC XII 30 09 46 05.0±4.28 **60.8N** **29.7E** **0** **3.2L** **2-9**
EIDC Error ellipse is semi−major=57.7km semi−minor=26.1km azimuth=1 **¶97xii5716**
ISC XII 31 03 32 27±2.0 **67.60N**±.079 **34.6E**±.44 **0** **11 1-12**
BER XII 31 03 32 35.2 67.6N 33.8E 0 3.1D,2.6L **¶97xii5830**
EIDC XII 31 03 32 36.0±4.68 67.5N 33.0E 0 3.2L
BER Probable explosion
EIDC Error ellipse is semi−major=44.6km semi−minor=18.2km azimuth=81

(726) Central Siberia.

EIDC VIII 20 05 25 13.1 **63.8N** **106.9E** **0** 3.6L,3.1b **5-41**
¶97viii2913

AGENCIES REPORTING EPICENTRAL ESTIMATES

Code	Agency	Address
AAA	**ALMA-ATA.**	USSR
AAB	**ALMA-ATA 2.**	USSR. Now called Talgar
ABA	**ALGER-BOUZAREAH.**	(See ALG)
ADE	**ADELAIDE.**	Department of Mines and Energy, P.O. Box 151, Eastwood, South Australia.
ADH	**ANGRA DO HEROíSMO.**	Observatório Afonso Chaves, Ponta Delgada, Açores. (Communications to: Serviço Meteorológico Nacional, Rua C, Aeroporto, Lisboa-2, Portugal.)
AEIC	**ALASKA EARTHQUAKE INFORMATION CENTER.**	Geophysical Institute, University of Alaska Fairbanks, P.O. Box 757320, Fairbanks AK 99775-7320, U.S.A.
AFI	**AFIAMALU.**	Apia Observatory, P.O. Box 3020, Apia, Western Samoa.
AGS	**ALASKA SEISMIC PROJECT.**	U.S. Geological Survey, 345 Middlefield Road, Menlo Park, CA 94025, U.S.A.
ALG	**ALGIERS UNIVERSITY.**	Institut de Météorologie et de Physique du Globe, Boîte Postale 1137, Alger, Algeria.
ALI	**ALICANTE.**	Observatorio Sismologico Vicente Inglada Alicante, Plaza San Juan de Dios 3, Alicante, Spain
ALM	**ALMERíA.**	Instituto Geográfico y Catastral, Observatorio Geofísico, Almería, Spain.
ANT	**ANTOFAGASTA.**	(See GUC)
API	**APIA OBSERVATORY.**	P.O. Box 3020, Apia, Western Samoa
APT	**CONNECTICUT.**	University of Connecticut, U.S.A.
AQU	**L'AQUILA.**	Italy
ARA0	**ARCESS.**	Norway
ARE	**AREQUIPA.**	Universidad Nacional de San Agustín, Sección de Sismología, Casilla 23, Arequipa, Peru.
ARO	**ARTA.**	Observatoire Geophysique d'Arta, B.P. 1888, Djibouti.
ASIES	**TAIWAN.**	Academia Sinica, Institute of Earth Sciences, P.O. Box 23-59, T'aipei, Taiwan.
ATH	**ATHENS.**	Seismological Institute, National Observatory of Athens, P.O. Box 20048, GR118 10 Athens, Greece.
AUST	**AUSTRALIA.**	Australian Geological Survey Organisation, P.O. Box 378, Canberra, A.C.T. 2601, Australia.
AVE	**AVERROES.**	Part of the SPGM network
BAA	**BUENOS AIRES.**	Servicio Meteorologico Nacional, 25 de Mayo 658, Buenos Aires, Argentina
BCIS	**BUREAU CENTRAL INTERNATIONAL DE SISMOLOGIE.**	5, rue René Descartes, F-67084 Strasbourg Cedex, France. Sometimes only preliminary determinations are reported. From 1976 January determinations issued by Centre Sismologique Euro-Méditerranéen.
BEO	**BELGRADE.**	Seismological Institute, 11001 Beograd Tasmajdan, P.O. Box 351, Serbia.
BER	**BERGEN.**	Seismological Observatory, Villavei 9, N-5000 Bergen, Norway.
BGS	**BRITISH GEOLOGICAL SURVEY.**	Global Seismology Unit, Murchison House, West Mains Road, Edinburgh, U.K. EH9 3LA
BJI	**BEIJING.**	Institute of Geophysics, State Seismological Bureau, Beijing, China.
BJT	**BAIJIATUAN.**	China
BKK	**BANGKOK.**	Meteorological Department, 612 Sukhumvit Road, Bangkok 11, Thailand.
BLA	**BLACKSBURG**	Virginia Polytechnic Institute and State University, Blacksburg, VA 24061-0434, U.S.A.
BNS	**BENSBERG.**	Erdbebenstation, Geologisches Institut der Universität Köln, Vinzenz-Pallotti-Strasse 26, 51429 Bergisch Gladbach, Germany.
BOG	**BOGOTÁ.**	Instituto Geofísico, Universidad Javeriana, Apartado Aéreo 56710, Bogotá 2, D. E Colombia.
BOU	**BOULDER.**	University of Colorado, Boulder, CO 80302, U.S.A.
BRA	**BRATISLAVA.**	Geofyzikálny ústav SAV, Dúbravská cesta, SK-842 28, Bratislava, Slovakia
BRK	**BERKELEY.**	Seismographic Station, Department of Geology and Geophysics, University of California, Berkeley, CA 94720, U.S.A. Depths are reported in four classes: *a* indicates a depth ranging from 0 to 5 km. *b* indicates a depth ranging from 6 to 10 km. *c* indicates a depth ranging from 11 to 15 km. *d* indicates a depth ranging from 16 to 30 km. Depths are reported in this *Catalogue* as the means of the above classes, *viz.* 3km for class *a*, 8 km for *b*, 13 km for *c* and 23 km for *d*.
BRS	**BRISBANE.**	Seismograph Station, University of Queensland, St Lucia, Brisbane 4067, Australia.
BUC	**BUCHAREST.**	Centre for Earth Physics and Seismology, P.O. Box MG-2, Bucharest-Magurele, R-76900, Romania.
BUD	**HUNGARIAN SEISMOLOGICAL INSTITUTE.**	H-1112 Budapest 11, Meredek u. 18, Hungary.
BUG	**BOCHUM.**	Ruhr-Universität Bochum, Institut für Geophysik, 44780 Bochum, Germany
BUL	**BULAWAYO.**	Goetz Observatory, P.O. Box AC 65, Ascot, Bulawayo, Zimbabwe.
BUT	**BUTTE.**	Montana Bureau of Mines and Geology, Butte, MT 59701, U.S.A.
CADCG	**CENTRAL AMERICA DATA CENTRE**	(See CASC)
CAN	**CANBERRA.**	Research School of Earth Sciences, Australian National University, P.O. Box 4, Canberra, A.C.T. 2601, Australia
CANSK	**CANADIAN AND SCANDINAVIAN NETWORKS.**	(See HFS)
CAR	**CARACAS.**	Instituto Sismológico, Apartado 6745, Caracas 1010A, Venezuela.
CASC	**CENTRAL AMERICAN SEISMIC CENTER.**	Escuela Centroamericano de Geologia, Universidad de Costa Rica, San Jose, Costa Rica
CGS	**COAST AND GEODETIC SURVEY OF THE UNITED STATES.**	Now NEIS
CLL	**COLLM BERG.**	Geophysikalisches Observatorium, Universität Leipzig, D-04758 Collm, Germany
CNG	**CHANGALANE.**	Seismographic Station, Meteorological Service of Mozambique, C.P. 256, Lourenço Marques.
CNH	**CHANGCHUN.**	China. (See BJI)
CNRM	**CENTRE NATIONAL DE RECHERCHE.**	B.P. 1346, R.P. Rabat, Morocco
COM	**COMITAN.**	México. (See TAC)
CRT	**CARTUJA.**	Spain. (See MDD)
CSEM	**CENTRE SISMOLOGIQUE EURO-MÉDITERRANÉEN.**	B.P. 12, 91680 Bruyeres-le-Chatel, France.
DASA	**DEFENSE ATOMIC SUPPORT AGENCY.**	(Now see DOE)
DBN	**DE BILT.**	Royal Netherlands Meteorological Institute, Division of Seismology, P.O. Box 201, 3730 AE de Bilt, Netherland.
DHMR	**NATIONAL SEISMOLOGICAL OBSERVATORY CENTER.**	Dhamar, Republic of Yemen.
DIAS	**DUBLIN INSTITUTE FOR ADVANCED STUDIES.**	5 Merrion Square, Dublin 2, Ireland.
DJA	**DJAKARTA.**	Seismological Section, Meteorological and Geophysical Service, Djalan Arief Rachman Hakim 3, Djakarta, Indonesia.
DOE	**DEPARTMENT OF ENERGY**	Nevada Operations Office, P.O. Box 14100, Las Vegas, NV 89114, U.S.A.
EAF	**EAST AFRICAN NETWORK.**	Comprising stations from Ethiopia, Kenya, Malawi, Uganda, Zambia and Zimbabwe
EBM	**ESEN BOULAK.**	Mongolia
ECX	**RED SISMICA DEL NOROESTE DE MÉXICO (RESOM).**	Centro de Investigacíon Cientifica y de Educacíon Superior de Ensenada (CICESE), Aptdo. Postal 2732, C.P. 22800, Ensenada, Baja California, México
EIDC	**EXPERIMENTAL (GSETT3) INTERNATIONAL DATA CENTER.**	Center for Monitoring Research, 1300 North 17th Street, Suite 1450, Arlington, VA 22209, U.S.A.
EKA	**ESKDALEMUIR ARRAY STATION.**	M.O.D. Blacknest, Brimpton, near Reading, Berkshire, U.K.
ENT	**ENTEBBE.**	Geological Survey and Mines Department, P.O. Box 9, Entebbe, Uganda.
ERDA	**ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION.**	(See DOE)
ESLA	**SONSECA.**	Spain
FBR	**FABRA.**	Fabra Observatory, Barcelona, Spain.

Code	Agency	Address
FDF	**FORT DE FRANCE.**	Part of TRN network
FIA0	**FINESSA**	Finland
FUR	**FÜRSTENFELDBRUCK.**	Geophysikalisches Observatorium der Universität München, Ludwigshöhe 8, 82256 Fürstenfeldbruck, Germany.
GBA	**GAURIBIDANUR ARRAY.**	Bhaba Atomic Research Centre, Trombay, Bombay-400085, India.
GEC2	**GERESS.**	Bayern, Germany
GLD	**GOLDEN.**	U.S. Geological Survey, Golden, CO 80401, U.S.A. (other than NEIS)
GM	**U.S. GEOLOGICAL SURVEY.**	Menlo Park, CA 94025, U.S.A.
GOL	**GOLDEN.**	Colorado School of Mines
GRA1	**GRÄFENBERG.**	Bayern, Germany
GS	**U.S. GEOLOGICAL SURVEY.**	(See USGS)
GUC	**GEOFíSICA UNIVERSIDAD DE CHILE.**	Departamento de Geología y Geofísica, Universidad de Chile, Avenida Blanco Encalada 2085, Santiago, Chile.
HAN	**HANNOVER.**	(See SZGRF)
HDC	**HEREDIA.**	Observatorio Vulcanologico y Sismologico de Costa Rica, Universidad Nacional, Apartado 86-3000, Heredia, Costa Rica.
HEL	**HELSINKI.**	Institute of Seismology, University of Helsinki, P.O. Box 26, Teollisuukatu 23, FIN-00014, Helsinki, Finland.
HFS	**HAGFORS.**	Hagfors Observatory, The National Defence Research Institute, S-10254 Stockholm, Sweden.
HFS1	**HAGFORS.**	Hagfors Observatory, Sweden
HFS2	**HAGFORS.**	Hagfors Observatory, Sweden
HKC	**HONG KONG.**	Hong Kong Observatory, Nathan Road, Kowloon, Hong Kong.
HNR	**HONIARA.**	Department of Geological Surveys, Box G24, Honiara, Solomon Islands.
HRVD	**HARVARD UNIVERSITY**	Department of Geological Sciences, Harvard University, Cambridge, MA 02138, U.S.A.
HVO	**HAWAIIAN VOLCANO OBSERVATORY.**	US Geological Survey, Hawaiian Volcano Observatory, P.O. Box 51, Hawaiian National Park, HI 96718-0051, U.S.A.
HYD	**HYDERABAD.**	(See NDI)
IGQ	**INSTITUTO GEOFISICO QUITO**	Escuela Politecnica Nacional, Quito, Ecuador.
IGS	**INSTITUTE OF GEOLOGICAL SCIENCES.**	Global Seismology Unit, Murchison House, West Mains Road, Edinburgh EH9 3LA, U.K.
IPRG	**INSTITUTE FOR PETROLEUM RESEARCH AND GEOPHYSICS.**	P.O. B2286, Holon 58122, Israel.
ISC	**INTERNATIONAL SEISMOLOGICAL CENTRE.**	Pipers Lane, Thatcham, Berkshire, U.K. RG19 4NS
ISC1	**INTERNATIONAL SEISMOLOGICAL CENTRE.**	Pipers Lane, Thatcham, Berkshire, U.K. RG19 4NS
ISK	**ISTANBUL.**	Kandilli Observatory, Çengelköyü, Istanbul, Turkey.
IST	**ISTANBUL.**	Institute of Physics of the Earth, Technical University of Istanbul, Teşvikiye, Istanbul, Turkey.
JEN	**JENA.**	Friedrich-Schiller-Universität, Institut für Geowissenschaften, Burgweg 11, 07743 Jena, Germany.
JER	**JERUSALEM.**	Seismological Laboratory, Geological Survey of Israel, Geography Building, Hebrew University Campus, Jerusalem, Israel.
JMA	**JAPAN METEOROLOGICAL AGENCY.**	Ote-Machi, Chiyoda-Ku, Tō kyō, Japan.
JOH	**JOHANNESBURG.**	Bernard Price Institute of Geophysics, University of Witwatersrand, P.O. Box 7919, Johannesburg, South Africa.
JSA	**JESUIT SOCIETY OF AMERICA.**	(See SLM)
JSO	**JORDAN SEISMOLOGICAL OBSERVATORY.**	Natural Resources Authority, P.O. Box 7, Amman, Jordan.
KAF	**KANGASNIEMI.**	Finland
KBC	**KUMBA.**	Institute de Recherches Géologiques et Minières, MESRES, PMB 17, Kumba, SW Province, Cameroon.
KBL	**KABUL.**	Afghanistan Seismological Observatory, Faculty of Engineering, Kabul University, Afghanistan.
KEW	**KEW.**	Kew Observatory, Richmond, Surrey, U.K. (Now IGS)
KHC	**KAS*PERSKÉ HORY.**	Geofysikálni ústav CAV, Bocni II/1401, 141-31 Praha 4, Czech Republic.
KHO	**KHOROG.**	Tadzhikistan. (See MOS)
KIR	**KIRUNA.**	Sweden. (See UPP)
KLM	**KUALA LUMPUR.**	Malaysian Meteorological Service, Jalan Sultan, Petaling Jaya, Selangor, West Malaysia.
KRL	**KARLSRUHE.**	Erdbebenwarte, Geodätisches Institut der Universität Karlsruhe, Englerstrasse 7, 76131 Karlsruhe, Germany.
KRSC	**KAMCHATKA REGIONAL SEISMOLOGICAL CENTRE.**	Geophysical Service, Russian Academy of Sciences, Petropavlovsk-Kamchatskiy, Kamchatka, Russia
KSA	**KSARA.**	Observatoire de Ksara, 8032 Zahle, Lebanon.
KUK	**ACCRA.**	Geological Survey Department, P.O. Box M.80, Accra, Ghana.
LAO	**LARGE APERTURE SEISMIC ARRAY.**	Seismic Discrimination Group, Lincoln Laboratory, M.I.T., 42 Carleton Street, Cambridge, MA 02142, U.S.A.
LDG	**LABORATOIRE DE DÉTECTION ET DE GÉOPHYSIQUE.**	Section Traitment de Données Géophysique, B.P. 12, 91680 Bruyeres-le-Chatel, France.
LDO	**LAMONT-DOHERTY EARTH OBSERVATORY.**	Seismology Department, Lamont-Doherty Geological Observatory, Palisades, NY 10964, U.S.A.
LED	**LANDESERDBEBENDIENST DES GEOLOGISCHEN LANDESAMTES BADEN-WÜRTTEMBERG**	(See LEDBW)
LEDBW	**LANDESERDBEBENDIENST DES GEOLOGISCHEN LANDESAMTES BADEN-WÜRTTEMBERG**	Albertstrasse 5, 79104 Freiburg, Germany
LEM	**LEMBANG.**	Indonesia. (See DJA)
LIC	**LAMTO.**	Station Geophysique, BP 31, N'Douci, Ivory Coast.
LIM	**LIMA.**	Peru. (See ARE)
LIS	**LISBON.**	Instituto Geofísico do Infante D. Luís, Rua C, Aeroporto, Lisboa-2, Portugal.
LJU	**LJUBLJANA.**	Seizmološki zavod SR Slovenije, Kersnikova 3, 61000 Ljubljana, Republic of Slovenia.
LPZ	**LA PAZ.**	Observatorio San Calixto, Casilla 5939, La Paz, Bolivia
LSZ	**LUSAKA**	Geological Survey Department, P.O. Box 50135, Lusaka, Zambia.
LTX	**LAJITAS**	Texas, U.S.A.
LVV	**LVOV.**	Ukraine (See MOS)
LWI	**LWIRO.**	Centre de Geophysique, I.R.S. Lwiro(Kivu), d/s Bukavu, Zaire
MAL	**MALAGA.**	Spain. (See MDD)
MAN	**PHIVOLCS.**	Philippine Institute of Volcanology and Seismology, 29 Quezon Avenue, Quezon City, Philippines. (formerly Philippine Atmospheric, Geophysical, Astronomical Services Administration)
MAT	**MATSUSHIRO.**	Nagano, Japan
MDD	**MADRID.**	Instituto Geográfico y Catastral, Servicio de Sismología e Ingeniería Sísmica, Calle del General Ibáñez de Ibero 3, Apartado 3007, Madrid 3, Spain.
MER	**MERIDA.**	México. (See TAC)
MES	**MESSINA.**	Italy
MEX	**MEXICO**	Instituto de Geofísica, Aptdo Postal 212 82, Ciudad Universitaria, CP04000 México D.F., México.
MLR	**MUNTELE ROSU.**	Romania
MNH	**MUNICH.**	Institut für Angewandte Geophysik der Universität München, Theresienstr. 41, 80333 München, Germany
MOS	**MOSCOW.**	Institute of Physics of the Earth, Bolshaya Gruzinskaya 10, Moscow, D-242, Russia.
		In some cases the following applies:
		'MB' denotes body-wave magnitude from SKM short-period vertical instruments.
		'MS' denotes surface-wave magnitude from SK medium-period vertical instruments.
MSI	**MESSINA.**	Istituto Nazionale di Geofisica, Messina, Sicilia, Italy.
MSSP	**MICRO SEISMIC STUDIES PROGRAMME, PINSTECH.**	Post Office Nilore, Rawalpindi, Pakistan.

Code	Agency	Address
MUN	**MUNDARING.**	Mundaring Observatory, Western Australia
NAI	**NAIROBI.**	Geology Department, University of Nairobi, Nairobi, Kenya
NAN	**NANKING.**	China. (See BJI)
NAO	**NORSAR.**	NTNF/NORSAR, P.O. Box 51, N-2007 Kjeller, Norway
NDI	**DELHI.**	Meteorological Department, Government of India, Lodi Road, New Delhi 110003, India.
NEIC	**NATIONAL EARTHQUAKE INFORMATION CENTER.**	U.S. Geological Survey Stop 967, National Earthquake Information Center, Box 25046, DFC, Denver CO 80225-0046, U.S.A.
NEIS	**NATIONAL EARTHQUAKE INFORMATION SERVICE.**	(See NEIC)
NEU	**NEUCHATEL.**	Switzerland. (See ZUR)
NOU	**NOUMÉA.**	Observatoire de Géophysique, Centre O.R.S.T.O.M. de Nouméa, Nouméa, New Caledonia.
NPO	**NORTH POLE.**	U.S.A.
NRA0	**NORESS.**	Norway
NSSC	**NATIONAL SYRIAN SEISMOLOGICAL CENTER.**	Ministry of Petroleum and Mineral Resources, Damascus, Syria
NUR	**NURMIJARVI.**	Finland. (See HEL)
OAX	**OAXACA.**	México. (See TAC)
OBM	**ULAN-BATOR.**	Mongolia
OSS	**OVA SPIN.**	Switzerland
OTT	**OTTAWA.**	Energy, Mines and Resources Canada, Seismology Division, 1 Observatory Crescent, Ottawa, Ontario, K1A OY3 Canada.
PAS	**PASADENA.**	California Institute of Technology, Seismological Laboratory, 252-21 Pasadena, CA 91125, U.S.A.
PAV	**PAVIA.**	Italy. (See ROM)
PDA	**PONTA DELGADA.**	Universidade dos Açores, Departamento de Geociências, 9502 Ponta Delgada, Açores.
PDG	**PODGORICA.**	Seismological Institute of Montenegro. 81000 R. Burica 2, Podgorica, Montenegro. (Previously Titograd (TTG))
PEK	**PEKING.**	(See BJI)
PFO	**PINYON FLAT OBSERVATORY.**	California, U.S.A.
PGC	**PACIFIC GEOSCIENCE CENTRE.**	9860 West Saanich Road, P.O. Box 6000, Sidney, British Columbia, Canada.
PIN	**PINEDALE.**	Wyoming, U.S.A.
PIST	**P. STAHL.**	6 Rue Paul Langevin, F 64000 Pau, France.
PMG	**PORT MORESBY.**	Port Moresby Geophysical Observatory, P.O. Box 323, Port Moresby, Papua New Guinea.
PMR	**PALMER.**	Alaska Tsunami Warning Center, 910 S Felton Street, Palmer AK 99645, U.S.A.
POO	**POONA OBSERVATORY.**	India. (See NDI)
PPT	**PAPEETE.**	Laboratoire de Géophysique, B.P. 640, Papeete, French Polynesia.
PRA	**PRAGUE.**	Czech Republic
PRE	**PRETORIA.**	Geological Survey, Department of Mines, P.B. X112, Pretoria 0001, South Africa.
PRU	**PRU*HONICE.**	Geofysikální ústav CAV, Bocni II/1401, 141-31 Praha 4, Czech Republic.
PTO	**PORTO.**	Instituto Geofísico da Universidade do Porto, Serra do Pilar-Vila Nova de Gaia, Portugal.
QCP	**MANILA OBSERVATORY.**	Ateneo de Manila Campus, P.O. Box 2232, 1062 Manila, Philippines.
QDM	**QUEENSLAND.**	Queensland Department of Mines, Brisbane, Queensland 4067, Australia.
QUE	**QUETTA.**	Geophysical Centre, Pakistan Meteorological Department, P.O. Box 2, Quetta, Pakistan.
RAB	**RABAUL.**	Volcanological Observatory, P.O. Box 386, Rabaul, Papua New Guinea.
RBA	**RABAT.**	Institut Scientifique, Université Mohammed V, Charia Ibn Batouta, B.P. 703, Rabat, Morocco.
REN	**UNIVERSITY OF NEVADA.**	MacKay School of Mines, University of Nevada, Reno, NV 89507, U.S.A.
REY	**REYKJAVíK.**	Vedurstofa Islands, Reykjavík, Iceland.
RIV	**RIVERVIEW OBSERVATORY.**	Sydney, Australia
RMIT	**ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY.**	Seismology Research Centre, Bundoora, Victoria 3083, Australia.
ROC	**ROCHESTER.**	Odenbach Seismic Observatory, McQuaid Jesuit High School, 1800 Clinton Avenue South, Rochester, NY, U.S.A
ROM	**ROME.**	Istituto Nazionale di Geofisica, Via Vigna Murata 605, 00143 Roma, Italy.
RRLJ	**REGIONAL RESEARCH LABORATORY JORHAT.**	Jorhat 785006, Assam, India.
RSMAC	**RED SISMICA MEXICANA DE APERTURA CONTINENTAL.**	IIMAS-UNAM, Apartado 20-726, México D.F., México.
RYD	**KING SAUD UNIVERSITY.**	Riyadh 11451, Saudi Arabia.
SAN	**SANTIAGO.**	Chile. (See GUC)
SAR	**SARAJEVO.**	Seismological Station, Hydrometeorological Institute, Grdonj 36, P.O. Box 620, Sarajevo, Bosnia-Hercegovina.
SCB	**SAN CALIXTO.**	Observatorio San Calixto, Casilla 12656, La Paz, Bolivia.
SEA	**SEATTLE.**	Geophysics Program AK-50, University of Washington, Seattle WA 98195, U.S.A.
SET	**SÉTIF.**	Sétif Observatory, Sétif, Algeria.
SHI	**SHIRAZ OBSERVATORY.**	P.O. Box 66, Shiraz, Iran
SHL	**SHILLONG.**	Central Seismological Observatory, Shillong-5, Assam, India.
SJS	**INSTITUTO COSTARRICENSE DE ELECTRICIDAD.**	Apartado 10032, San José, Costa Rica.
SKHL	**SAKHALIN EXPERIMENTAL AND METHODOLOGICAL SEISMOLOGICAL DEPARTMENT.**	Geophysical Survey, Russian Academy of Sciences, 2 Tihookeanskaya, Yuzhno-Sakhalinsk, Russia, 693010 'K' denotes Solov'ev's Energy Class; K = 2Ms + 1.2
SKL	**NOVOALEKSANDROVSK.**	Sakhalin Complex Scientific Research Institute, Novoaleksandrovsk, Sakhalin, Russia. TYPE 'A' implies the error in epicentral position is less than 25 km. TYPE 'B' implies the error in epicentral position is less than 50 km.
SKO	**SKOPJE.**	University Seismological Observatory, P.O. Box 422, 91001 Skopje, Macedonia.
SLM	**SAINT LOUIS.**	Department of Earth and Atmospheric Sciences, P.O. Box 8099, Laclede Station, Saint Louis, MO 63156, U.S.A.
SMI	**SMITHSONIAN INSTITUTION.**	Centre for Short-lived Phenomena, 60 Garden Street, Cambridge, MA 02138, U.S.A.
SOD	**SODANKYLA.**	Finland. (See HEL)
SOF	**SOFIA.**	Section of Seismology, B.A.S. Geophysical Institute, Moscovska 6, Sofia, Bulgaria.
SPC	**SKALNATE-PLESO.**	Slovak Republic. (See BRA)
SPGM	**MOROCCO.**	Service de Physique du Globe (see RBA).
SSS	**SAN SALVADOR.**	Centro de Estudios y Investigaciónes Geotécnicas, Sección de Sismología, Apartado 109, San Salvador, El Salvador.
STK	**STOCKHOLM.**	(See HFS)
STL	**SANTA LUCIA.**	Chile. (See GUC)
STR	**STRASBOURG.**	Institut de Physique du Globe,Université Louis Pasteur, 5 Rue René Descartes, 67084 Strasbourg Cedex, France.
STU	**STUTTGART.**	(See LEDBW)
SZGRF	**SEISMOLOGISCHES ZENTRALOBSERVATORIUM GRÄFENBURG.**	Krankenhausstr. 1, 91054 Erlangen, Germany
TAB	**TABRIZ.**	Seismological Observatory, P.O. Box 51335-685, Tabrīz, Iran.
TAC	**TACUBAYA.**	Instituto de Geofísica, Aptdo Postal 212 82, Ciudad Universitaria, CP04000 México D.F., México.
TAN	**ANTANANARIVO.**	Institut et Observatoire Geophysique d'Antananarivo, B.P. 3843, Antananarivo 101, Madagascar.
TAP	**T'AIPEI.**	Central Weather Bureau, 64 Kung Yuan Road, T'aipei, Taiwan 10039.
TAU	**TASMANIA.**	Geology Department, University of Tasmania, Box 252 C GPO, Hobart TAS 7001, Australia
TEH	**TEHRA*N OBSERVATORY.**	Geophysical Institute, Tehrān University, Iran
TEIC	**CENTER FOR EARTHQUAKE RESEARCH AND INFORMATION.**	Memphis University, Memphis, TN 38152, U.S.A. (formerly Tennessee Earthquake Information Center)
THE	**THESSALONIKI**	University of Thessaloniki, Mail Box 352-1, GR-54006, Thessaloniki, Greece
TIF	**TBILISI.**	Institute of Geophysics, Academy of Sciences of Georgia, Tbilisi 380093, Georgia.

Code	Agency	Address
TIR	**TIRANA.**	Seismological Centre, Academy of Sciences of Albania, Tirana, Albania.
TOK	**TOKYO OBSERVATORY.**	Japan. (See JMA)
TOL	**TOLEDO OBSERVATORY.**	Spain. (See MDD)
TRI	**TRIESTE.**	Osserv. Geofisico Sperimentale, Sezione Sismologia, P.O. Box 2011, 34016 Trieste, Italy.
TRN	**TRINIDAD.**	Seismic Research Unit, University of the West Indies, St. Augustine, Trinidad, Trinidad and Tobago. Some TRN estimates do not give origin time. In these cases, the time is taken to be that of the first associated observation but it is printed only to the nearest hour.
TTG	**TITOGRAD.**	(See PDG)
TUL	**TULSA.**	Oklahoma Geophysical Observatory, Oklahoma Geological Survey, University of Oklahoma, Box 8, Leonard, OK 74043, U.S.A.
TUN	**TUNIS.**	Institut National de la Metéorologie, C.P. 22, Tunis, Tunisia.
TZN	**TANZANIA.**	Department of Physics, University of Dar es Salaam, P.O. Box 35063, Tanzania
UCC	**UCCLE.**	Observatoire Royal de Belgique, Uccle, 3 Avenue Circulaire, B-1180 Bruxelles, Belgium.
UPP	**UPPSALA.**	Seismological Institute, Box 12019, S-75012 Uppsala, Sweden.
USAEC	**UNITED STATES ATOMIC ENERGY COMMISSION.**	(See DOE)
USCGS	**UNITED STATES COAST AND GEODETIC SURVEY.**	(See NEIC)
USGS	**US GEOLOGICAL SURVEY.**	345 Middlefield Road, Menlo Park, CA 94025, U.S.A.
UVC	**COLOMBIA.**	Universidad del Valle, Cali, Colombia.
VIE	**VIENNA.**	Zentralanstalt für Meteorologie und Geodynamik, Hohe Warte 38, A-1190 Wien, Austria.
VLA	**VLADIVOSTOK.**	Russia. (See MOS)
VRAC	**VRANOV.**	Czech Republic
VSI	**VOLNET.**	Seismological Laboratory, University of Athens, Panepistimiopoli, Athens 15784, Greece.
WAR	**WARSAW.**	Institute of Geophysics, Polish Academy of Sciences, Ul. Ksiecia Janusza 64, 01-452 Warsaw, Poland.
WEL	**WELLINGTON.**	Seismological Observatory, Geophysics Division, I.G.N.S., P.O. Box 1320, Wellington, New Zealand.
WES	**WESTON OBSERVATORY.**	Department of Geology and Geophysics, Boston College, 381 Concord Road, Weston, MA 02193, U.S.A.
WMO	**WICHITA MOUNTAINS OBSERVATORY.**	Oregon. (See NEIS)
ZAG	**ZAGREB.**	Geophysical Institute, Faculty of Sciences, University of Zagreb, Grič 3 P.O. Box 9, Zagreb 41103, Croatia.
ZSC	**ZOSE STATION.**	China. (See BJI)
ZUR	**ZURICH.**	Schweizerischer Erdbebendienst, Institut für Geophysik, ETH-Hönggerberg, CH-8093 Zürich, Switzerland.